

How can you
expect us to put
out a good paper

The CALIFORNIA Tech

Copyright 1970 by the Associated Students of the California Institute of Technology, Incorporated.

When we're so
busy razing cane

Volume LXXII

Pasadena, California, Thursday, ~~November 19,~~ December 10, 1970

Number 11



Mickey Mouse Succeeds; Tree Gets the Shaft Anyway

by Peter Beckman

"But what if we have an earthquake?" asked an understandably disturbed frosh as he balanced precariously near the edge of eternity. The time was Sunday and the place was the dome of Throop. The frosh was a member of a group of Tech trolls and other random maniacs who were intent on celebrating Christmas in style by erecting an 18-foot artificial Christmas tree on the top dome of Throop.

Work on this daring project began last week with the purchase of 1100 feet of tinsel (the purchaser was hauled in by L.A.

police on suspicion of theft since they couldn't believe that anyone would possibly buy that much), and large amounts of rope, wire, and twine. A suitable pole for the tree, a 40 foot bamboo stalk was found in Louise Hood's front yard and promptly chopped down.

Actual construction began Friday night in the old steam plant. The body of the tree was made of circles of wire, ranging in size from six inches to ten feet, that were held together with twine. Between them hung garlands of tinsel creating a collapsible cone 18 feet high and 10 feet in diameter.

Saturday, lights were strung between the hoops—then the first of several disasters struck. The rope that held up the cone broke and the cone fell to the floor. One eyewitness described it this way, "It was beautiful with each section collapsing in turn to the sound of crunching glass light bulbs."

Sunday morning the sections of the tree were pulled up the west side of Throop Hall by sheet brute force, and the tree stand was assembled on top of the upper dome. The next day the final assault began. The collapsed tree, bound to its plywood stretcher, was placed on the platform. The 24 foot bamboo pole was pulled up to the dome, but all attempts to seat it upright upon the platform came to grief. It was just too bulky and heavy, and each attempt increased the chances of

someone learning about the equivalence of gravitational potential and kinetic energy the hard way.

The time for the tree lighting ceremony had been set for 5 p.m. It could not be postponed so a replacement tree, 18 inches high, was placed on the platform. At Harold Brown's signal the tiny tree was lighted to the mingled cheers and boos of the crowd below.

For the tree trolls who had spent so much time and labor on the tree it was a moment of temporary defeat, but they were firm in their resolve that the tree would somehow be erected in its full glory.

Seeking expert advice the tree trolls called upon the Blacker House Climbing and Leaping Society. These experts were able to raise the bamboo pole, but not without sacrificing the hopelessly tangled mess of tinsel and wire that made up the body of the tree.

There it stands now—the infinite shaft—dedicated to those who risked their lives and GPA's to erect it.

In Memorium

Peter Beckman, John Cronin, John Fisher, Jim Hen3ry, Ron Joiner, Paul Levin, Roger Lighty, Scott Lundstrom, Craig McCluskey, Ralph McGee, Phil Massey, Ira Moskatel, Phil Neches, T.J. O'Neil, Gary Rubenstein, Wayne Sherrer, Mike Stefanko, Eric Wheatley.
Blessed are they that mourn,
For they shall be comforted.

Y Declares February China Month

by Emden Gansner

China now has an H-bomb and a satellite, and it almost obtained a seat in the UN this year. With China's current prominence in mind, the Caltech YMCA has announced that the main of their second term activities surround aspects of China's past, present and future. Also announced were plans for a Visiting Seminarian Program, a House Speakers Bureau and other odds and ends.

For the Y, February is China month. In cooperation with the Chinese Student Association, there will be a three week exhibit of Chinese Art in Dabney Lounge. And on February 13, there will be a Chinese Culture Evening at Beckman. Chinese opera, music, boxing and a variety of other features from the Chinese culture will be vividly displayed.

The transition from China past to China present and future takes place February 18, 19 and 20 with a Symposium on China. China experts from the US, Great Britain, and Australia will be on campus these three days to provide information and discussion on the current scene in China, both the

domestic and foreign issues.

The symposium will consist of seminars on Thursday and Friday. Then, to finish the event, about forty Techers will accompany the experts to a retreat and confer with them there, taking advantage of the freer climate, in more ways than one.

Complementing the China program will be PS 140 - Seminar in Foreign Area Problems, which, as usual, is offered second term. This year PS 140 will concentrate on China and Japan. Besides the regular instructor Ned Munger, two members of the American Universities Field Staff, a China and a Japan expert, will act as guest lecturers for the course. The American Universities Field Staff is an organization of political science, economic and social experts, each with their own geographic area of expertise. The publications produced by them provide an excellent and unique resource for information in these areas. The AUFS is co-sponsored by ten universities, Caltech being one of the co-sponsors.

The second important program the Y has planned for the second

Engineering Adds

Course Dealing With

Emissions Testing

by James Henry

The engineering curriculum will receive a new dose of realism next term when a course in engine testing and emissions measuring will be offered. It will be a nine unit laboratory course offered under the titles ME 126 and ChE 126. Though the course content has not been finalized, Professors Sabersky and Shair indicate that the goal will be to provide a fundamental working knowledge of engine testing and chemical analysis necessary for work on low-pollution vehicles.

Members of Caltech's Clean Air Car team will be participating in the course and engines by natural gas will be studied in detail. Since there is a possibility of a 1972 race, it is hoped that the course will provide a source of manpower. It also appears that those who take the course will be in demand for summer research work. Last summer both JPL and the Clean Air Car Project began engine research programs but progress has been slow since there have been few students with a good background for the work. ME 126/ChE 126 is intended to fill this gap.

While there are no prerequisites for the course, enrollment will be limited by the laboratory facilities available. Those who feel that they are interested in the course are encouraged to talk to Dr. Ralph Miles who is helping with the organization of the class. His office is in 201 Firestone. There will also be a sign-up list on his door and on the Clean Air Car which will be on display tomorrow outside of Firestone.

Toys for Tots

Marines Sponsor Benefit Race

College students with an itch to help unfortunate children celebrate a bright Christmas this year get the opportunity Saturday, Dec. 12 during the first annual "Toys for Tots" race sponsored by the United States Marine Corps at Irwindale Raceway.

Various student organizations have planned to collect packaged toys of at least one dollar or more in value and will deliver the toys to the Marine Corps' collection stations located at the raceway that night.

All toys collected during the drive will be used by Marine Corps personnel for distribution to orphans' homes, children's hospitals and juvenile halls throughout the Southland.

As a bonus for those taking part in the drive, Irwindale Raceway will stage an eight-car Funny Car and eight-car Fuel Altered show Dec. 12. Admission will be \$2.50

and one packaged toy or \$4 and the raceway will buy a toy to donate to "Toys for Tots."

Marine Corps personnel will be at the track from the opening of qualifications at 1 p.m. to well after the start of eliminations at 7 p.m. to accept toys collected by student groups on their campus during the week.

The general public is also invited to take part in the inaugural event by presenting a packaged toy at the gate to help brighten some child's holiday season.

You Lose

The TECH will suspend publication for finals and Christmas Vacation. See you back on Jan. 7, 1971, and may Santa bring you a 4.0 for Christmas.

Continued on Page Four

Editorial

Ascit of Fisher

We'll Have to Pay Someday

Just ten years ago, the scientist and the technologist were highly respected members of society. Their opinions were sought on great issues far from their fields of interest (and often competence). Today, the scientist seems persona non grata in many circles.

In 1960, the nation faced what at the time seemed to be the very real threat of Soviet technological superiority, as measured by accomplishments in space exploration. President Kennedy called for a colossal commitment to overcome that problem, and that commitment was realized.

In 1970, we face a similar threat to our national prestige, indeed, to our ability to survive as a pleasant place to live. One need only attempt to breathe on a typical day to appreciate the problem. Again, the problem can be classified as technological. What seems lacking, however, is the willingness to make the sort of commitment which will solve the problem.

Pollution of air and water presents no problems that technology is incapable of solving if properly applied. We know how to build engines which emit less of those compounds which become smog. We know how to purify sewage to the point that it is safe to drink, often considerably safer than water sources used by some major cities.

But technology cannot solve the problem of how to pay for the remedies. Third stage sewage treatment plants cost a great deal, more than most municipal water districts can afford out of their operating revenue. Changing over to, say, natural gas for automobiles would require modification of thousands of service stations.

The problems of the environment will prove amenable only if attacked not just by large sums of rhetoric, but by large sums of money. One cannot say that we lack resources when we can spend \$30 billion per year on the Vietnamese war without straining the economy beyond endurance. So far, one would have to say that we have lacked the will to spend seven or ten billion dollars a year on making our country liveable.

The stumbling blocks are social and political rather than technological. In the sixties, political motivation stimulated technologists to have a man on the moon within nine years of the decision to do so. But so far in the seventies, no equivalent political motivation has been evident to improve the environment.

The public will ultimately pay a heavy price whether or not the environment receives better care, for cleaning it up will be enormously expensive. But the costs of living in a foul biosphere will be far greater in the long run. Both from the standpoints of economics and esthetics, a massively-funded attack on pollution will be worthwhile in the long run.

Whether such a project can come to pass or not depends on whether the public is willing to sacrifice some short-term conveniences, such as their shiny gas-guzzling, air-fouling, but presently cheaper cars. Many express cynicism on this point, and say that any politician who supports expensive anti-pollution programs which will mean higher taxes commits political suicide.

We hope not.

We must, as a concerned public, express our willingness to foot the bill now, rather than leaving the world more choked in excess population, sewage, and smog than we found it.

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

The new Institute Directory includes a new feature of questionable merit. Specifically, we refer to the attempt to introduce numeric "mail stations." For example, the Tech's address is now 105-51 instead of simply Winnett Center. How many know where 105-51 is? How many know where Winnett Center is? We think that the idea should be placed in an appropriate receptacle, say in 111-51 or 205-33.

—(56-57). 121 S Chester No. 12 concurs.

Executive Social Committee Deserves Publicity

by Robert S. Fisher

Last week I claimed the Executive Social Committee deserved more publicity than it was getting. Since then the Committee has achieved some notoriety—which no doubt is good—though the publicity itself seems to be predominantly bad. Let me begin with some of the ESC's history and philosophy.

A Social Committee has existed, albeit in a state of dormancy, for a long time. Article XII, Sec. 12 of the Bylaws provides for a Committee "composed of representatives from each House Social team chaired by the ASCIT Social Chairman. It shall plan ASCIT Social functions and co-ordinate House activities." In actuality, the Committee was used mostly as a place for the ASCIT Social Committee to extract girls from the House Social Chairmen. I thought the Committee could do better than this.

The present BOD came into Office amid complaints that ASCIT's money disappeared to no visible purpose. An expanded Social Committee was conceived as a possible solution. As such, it had 3 primary goals:

1) To fund worthwhile Social or Cultural activities proposed by ASCIT members.

2) To encourage Undergrads to think up ideas innovative enough to get money.

3) To provide a forum where ASCIT and the Houses could work out a Campus Social Program.

A starting tilt for the revived ESC was provided by trimming ASCIT's budget, particularly in the internal areas such as Officer's discretionary funds. More money was to be sought by circulating a proposal in the Pasadena Community under the guidance of the Caltech Development Agency. This is now being done.

The proposal (drafted by Leonidas Guibas) admits that if the ESC succeeds, the activities funded will have been largely unpredictable. However, it outlined several things worth funding. Some of these, of course, are supportable from other sources.

I. Campus-wide Events:

A) Underwriting cultural performances on campus, such as theatre groups, concerts, poetry readings, artistic workshops, or special conferences

B) Supporting art, music, or dance classes available to the student-body as a whole.

C) Funding tours of LA for Freshman

D) Establishing car-pools to other schools

E) Arranging for the publishing of an inter-school Social Calendar

II. House Events:

A) Funding of experimental social events as part of a House's own program

B) Support, where necessary and possible, of more routine events, like House Camping trips.

C) Funds for small physical improvements of the Houses, particularly those with more than just aesthetic results

D) An artist, musician, or poet in residence

III. Individual or Small-Group Subsidies

A) Subsidy for any activity socially involving Undergraduates and Caltech non-Undergraduates. An example might be a double-date to dinner and a play with a Faculty member and his wife.

B) Funds for a few Caltech Ambassadorships: sending students to other schools or Institutions with the obligation to report back. (As with the 7 House members who toured Dorms around the Country and then wrote *Reflections on Several Worlds*.)

C) Support of recreational trips, particularly when these are of educational value to the individual.

D) Small grants, given to needy students to permit them greater access to the area's cultural life.

We anticipated that the Committee would gear its generosity to its bank account. By and large it has. It is not true that the Committee gives money automatically to anyone who requests it. Its funding history is in its minutes. With respect to the above list, IA,

B, E, IIA, B, C and II A, C have either been funded or appropriated for specific future activities. Among the activities financed so far are: a film on Caltech, a Jazz group and Jam room, group trips to Ensenada and Death Valley, restoration of a House Gameroom, a Thanksgiving dinner for 12, entertainment for the Fire-Escape Coffeehouse, Freshmen-TA Section parties, a series of Candle-Making parties, and numerous House Social events. In my view the ESC has been moderately successful. Decisions regarding ASCIT's finances are more in the hands of the Houses and individuals than before the Committee's existence. Whether this makes spending more productive, is hard to say. Certainly the process would be improved by more clever inputs on what to fund.

Not All Good

The outlined suggestions are neither all-inclusive nor all good. The ESC itself decides what it wants to fund and to what extent it does so. In even more explicit terms, the seven voting members from the Social Teams of each of the seven Houses decide. This tempts me to duck all complaints about the Committee by telling you to take them to your Social Chairman, who should be there setting policy. But I would like to register some thoughts on one particular complaint, that relating to the Committee's giving money to individuals. Apparently, there was a negative enough reaction to this to defeat the second provision regarding the ESC on the Bylaws change.

I am not clear on the exact reasons for the objections. Certainly, if only a limited segment of the student body were eligible, the

Continued on Page Six

Half-price Tickets!

TEACHERS!! A special Date Night program for college students has been set up at the Los Angeles Forum for Laker and L.A. Kings games. Students showing their ID will receive two tickets for the price of one (plus \$.25 for the city) in the \$4.25 and less seats.

These dates are: For the Lakers, Tues. Dec. 22, 8:00 pm.
Fri. Dec. 25, 8:00 pm.
Sun. Dec. 27, 7:00 pm.
Tues. Dec. 29, 8:00 pm.

For the Kings:
Sun. Dec. 20, 7:00 pm.
Wed. Dec. 23, 8:00 pm.
Sat. Dec. 26, 8:00 pm.
Wed. Dec. 30, 8:00 pm.
Sat. Jan 2, 8:00 pm.
Sun. Jan. 3, 7:00 pm.

IF YOU'RE SO SMART

why don't you look into graduate work in the Department of Radiation Biology and Biophysics at the University of Rochester School of Medicine and Dentistry? More than 60 full-time faculty are eager to help you develop your thing through interdisciplinary research: advanced degrees in Biophysics, Radiation Biology, and Toxicology including many aspects of Environmental Science.

Facilities? We've got 'em. Over 3½ acres of floor space devoted to research and teaching in our Department alone. And our equipment array is impressive too: NMR, ESR, AA, and IR Spectrometers, ORD, CD, EM and microprobe, half a dozen X-ray machines of assorted outputs, high level and low level irradiators, our own Departmental computer center and numerous special purpose computers -- to say nothing of the usual run of lab equipment. We're a large, vibrant Department, attacking many of today's environmental problems.

If you qualify (and our standards are pretty high) you can join with us in exploring any of these exciting areas. Stipends are generally available for U.S. citizens; you won't get rich on them, but they sure beat trying to go it on your own.

For detailed information about our Department and our degree programs, write now to:

Dr. Irving L. Spar,
Associate Director for Education
Department of Radiation Biology and Biophysics
University of Rochester School of Medicine & Dentistry
Rochester, New York 14620

PAT'S LIQUORS AND DELICATESSEN
1072 E. Colorado SY 6-6761
Open to midnight daily,
1 a.m. Fri. & Sat.
Keg Beer Party Supplies

POSTERS
Extremely Wide Selection
The Print Store, Inc.
1515 E. Colorado (Opposite PCC)
Open Evenings Till 10

The CALIFORNIA Tech
Thursday, December 10, 1970
Volume LXXII Number 11
Published weekly by the Associated Students of the California Institute of Technology, Incorporated. The opinions expressed in all articles herein are strictly those of the author, and do not necessarily reflect those of the editors or the newspaper staff.
Copyright 1970 by the Associated Students of the California Institute of Technology, Inc. All rights reserved.
Editors-in-Chief Paul A. Levin
Ira D. Moskatel
Philip M. Neches
Entertainment Editor Nick Smith
Film Editor Dave Dobrin
Photography Editor John Fisher
Sports Editor Ira Moskatel
Staff John Abbott, Peter Beckman, Patricia Clabaugh, Barry Dohner, Emden Gansner, Roger Goodman, John Garth, Malcolm Handte, Jim Henry, Philip Massey, David Miller, Mike Mariani, Bruce Montgomery, Terry O'Neill, Etaoin Schroedlu, Alex Seita, Bob Standley, Elliot Tarabour, Millikan Troll, Ralph McGee.
Photo Staff John Belsher, Steve Dashiell, Karen Eatgn, Bill Loucks, Ken Mills, Alan Stein, Peeping Tom.
Business Manager Marvin Mandelbaum
Circulation Manager Metin Mangir
The California Tech publications offices: 115 Winnett Center, California Institute of Technology, 1201 East California Boulevard, Pasadena, California, 91109. Represented by National Educational Advertising Service, Inc. Printed by News-Type Service, 125 South Maryland Avenue, Glendale, California. Second class postage paid at Pasadena, California.
Subscriptions \$1.50 per term
\$4.00 per year
Life subscription \$100.00

ASCIT of Seita

Peterson On Draft

By-Laws Changes Voted On
Committee Appointments Made

by Alex Seita

This column reviews the weekly meetings of the ASCIT Board of Directors. The summary of issues confronted, legislation enacted, and positions taken by the Board is given together with a general commentary on student activities. This article differs from the Board's minutes which are the official records (available on request) of the ASCIT corporation.

At last week's session, the Board abandoned their usual format by holding a phone meeting. Voting by phone, the Board approved the recommendations made by the Interhouse Committee for faculty committees, and validated the results of the election held Friday, December 4.

Student Representatives

The following people were appointed to faculty committees. Athletics and Physical Education: Randy Lewis (Ri) Freshman Admissions: Sharon Long (Bi) Joseph Morin (Da) Lorne Schachter (Fi) Michael Teener (Fi) Michael Turner (Fi) Price Walker (Da) Convocations: Bruce Reznick (Bi)

Scholarships: Lorne Schachter (Fi) Donald Smith (Fi)

Election Results

The corporation (ASCIT) passed the By-Laws change dealing with the elimination of ASCIT subsidies to the Athletic Department by a vote of 187 to 71 (172 required for passage).

The corporation rejected the By-Laws change concerning the expansion of powers for the ASCIT social committee 151 to 104 (170 votes needed for passage).

Announcements

Dr. David Smith, Master of Student Houses, has expressed the belief that Caltech coeds would be happier if they had the right to choose, among any of the seven houses, where they were going to live. Coming to this belief after talking with the present coeds, Smith feels that there is a good chance of one or two or all of the four girl-less houses receiving female occupants next year. That is contingent upon a suitable number of coeds being here next year.

This week's meeting of the ASCIT B.O.D. will be held at 7:30 p.m., Thursday, December 10, in Winnett Clubroom II.

by Mark Peterson

The last article described how to develop a physical or psychological problem to use as a basis for a 1Y deferment. This article describes how to get the deferment once you have developed the problem and you have obtained doctors' letters describing the problem.

Selective service provides three different reviews which may be used to establish that you have a problem which should cause you to receive a 1Y deferment. The most important of these is the pre-induction physical examination. In California, preinduction physicals are given by the army at examining stations located in Oakland, Fresno, and Los Angeles. These physicals are usually very incompetent. Unless you have a doctor's letter describing a specific problem you will almost certainly pass your physical examination. If you have a doctor's letter, bring it to the physical to give yourself the greatest possibility of getting a 1Y. Even with such a letter you are very likely to pass your physical in Los Angeles or Oakland.

You will have the greatest chance to fail a preinduction physical examination if you take such examination in a city outside

of California. Unfortunately, you cannot choose to transfer a physical examination to another, more competent examining station. You can take a physical outside the area of your local board only if you reside in the area covered by another examining station. To be a resident of another area you must have an address in that area, and you must intend that that address be your residence. If you are attending school in Los Angeles, selective service may conclude that you do not really intend to call another area your residence.

A second review which you might be able to get is a review by the medical advisor to your local board. The board is not required to give you such a review but they may be willing to do so, especially if you have never had a pre-induction physical examination, if you had such an examination a long time ago, or if you have new evidence of a physical or psychological problem. To try to get the medical advisor appointment, send a copy of all letters you have from doctors on the problem for which you hope to get a 1Y, together with a cover letter requesting the board to give you the appointment with the medical advisor. If you do get the appointment, bring copies of the letters from doctors on the problem he is to examine you for. If the medical advisor finds you to be unacceptable for induction you will almost certainly be given a 1Y deferment.

If you are found acceptable at a preinduction physical examination and you feel you still should get a 1Y deferment, request the draft board to give you an appointment with the medical advisor or to give you a new physical examination. However, if you are 1A and you are not appealing that classification and you have not filed for a C.O., you should see a draft counselor. You could be inducted at any time if your lottery number has been called. A draft counselor will help you with the one other possible review of your claim for a physical deferment, the congressional review. If you write to your congressman and complain about your inadequate preinduction physical examination and tell him that you feel you should have a 1Y deferment, your congressman can arrange for a special reexamination by the Surgeon of the Army. This review will again be held at the examining station but you will usually have a better examination at this time and, therefore, you will have a much better chance at being found unacceptable for induction.

Finally, you should be aware of the consequences of missing a preinduction physical examination. If you are classified 1A and you do not attend a physical examination to which you are ordered, you can be called for induction without being given a preinduction physical examination. You will be given an

Continued on Page Six

TOP Quality JOB PRINTING

A Complete Plant At Your Service

795-4500

De Lacey PRINTING & LITHOGRAPHER

108 S. De Lacey • Pasadena, Calif. Zip 91105

NOW THRU DEC. 13

CAT STEVENS

AND SEATRAN

COMING NEXT JAKE HOLMES

Troubadour

DOUG WESTON'S

9081 SANTA MONICA BLVD., L.A. 276-6168

COCKTAILS • DINNERS • HOOT MONDAYS • NO AGE LIMIT

BEER TALK

by Ed McMahon

In which the candid connoisseur answers questions about Beer, and the drinking of same.

DEAR ED: I'm burned up because after a weekend romp in the woods, I forgot to put a leftover 6-pak of Budweiser in the refrigerator. Everybody says you can't chill beer twice, so what should I do?

FUMING

DEAR FUMING: First, cool off, pal. Then cool off that Bud to your heart's content (or about 40°).

There's no problem, because a really good beer like Budweiser is just as good when you ice it twice.

But I can't resist mentioning that there is an easy way to avoid the situation altogether.

Just make sure there's no Bud left over!

Budweiser.

KING OF BEERS.

ANHEUSER-BUSCH, INC. • ST. LOUIS • NEWARK • LOS ANGELES • TAMPA • HOUSTON • COLUMBUS • JACKSONVILLE • MERRIMACK

HAPPY HOLIDAY

and thanks to all our customers

Hair Cuts — Finish Razor Cutting — Shaves and Long Hair Shaping

Campus Barbershop

Paul A. Harmon

PASADENA TRANSMISSION

LOCALLY OWNED

AUTOMATIC TRANSMISSION SPECIALISTS

792-6104

26 N. Hill (at Colorado) PASADENA

10% discount to all Caltech students and faculty

2 BIG COLOR HITS

A Blake Edwards production

Julie Andrews • Rock Hudson

Darling Lili

AND

Paramount Pictures Presents

A Howard W. Koch - Alan Jay Lerner Production Starring

Barbra Streisand

Yves Montand

On A Clear Day You Can See Forever

COMING!

Dec. 16 "The Phantom Toll Booth"

Dec. 25 "Airport"

THE Esquire

2670 E. Colorado ST 3-6143 MU 4-1774



audience

Ahmanson:

Very Remote Asylum

by Ira Moskatel

Remote Asylum is an obscene play. It is not lewd, lascivious or revelrous. It is obscene. *Boys in the Band* playwright Mart Crowley has permanently disproven the adage that a generous flurry of four letter words does not evoke laughter.

Thematically, I suppose, obscenity is appropriate to the play—obscenity not only in the sense of expletive language but also in the form of obscene situations, grotesque characterizations, and interecine confrontations. Set at a villa outside Acapulco, the play centers around four sets of characters:

Nancy Keller and Arthur O'Connell play the owners of the villa. Miss Keller portrays a woman domineering to the point of stereotype. O'Connell, as her husband, is mute, having lost his vocal chords in cancer surgery. With not a single line in the play O'Connell's is by far the best performance, the two-time Oscar nominee and Tony winner having mastered the art of pantomime.

Anne Francis and William Shatner play expatriate actress and tennis bum paramour, still trying to cling to the marriages which they themselves destroyed. Traveling with them as visitors at the remote villa is Michael, an intellectual homosexual. Michael is always looking for a mother-symbol and drugs with which to escape from the screwed-up world he sees around him.

Two promising Mexican-American actors play the gay servants in the Resort household. They are usually referred to as "La Damita and El Dorado." They furnish grotesque slapstick relief from the grotesque comedy.

The play is a series of mutually destructive confrontations among the various characters—one two and one-half hour long sensitivity conference in which each character seeks to place the blame on someone else by picking his opponent with that person's hang-ups. In the process Ray (O'Connell) dies, and each of the paramours' spouses permanently reject him. The play basically comes to no conclusion—the hung-up accept their hang-ups but don't solve them, and the un-hung (the Butler Carlos, whom I graciously left out of this mess) remains unhung.

It is truly remarkable that such a mediocre piece of dramatic literature could have attracted such fine actors. As was mentioned before, Arthur O'Connell was brilliant in his pantomime role. Nancy Keller as the domineering woman maintains consistency in characterization as well as pulling off the necessary actions to create a physical image as well as an intellectual one.

William Shatner is reasonably convincing as a weak human being in a symbiotic relationship. Anne Francis is the least effective performer, resorting to melodrama for the emotional sequences.

Remote Asylum will not leave any lasting impression with you—and I imagine you've all heard four letter words before. Here's one—Blah!

Young Men's Etc...

Continued from Page One

term is the biennial Visiting Seminars Program. As in the past, from eight to nine seminary students will be visiting the campus for a week, in this case, February 22 to 26. The seminary students will be from both the Jewish and Christian faiths, and from a variety of sects and denominations. They will live in the student houses, about one per house. During the week, there will be drop-in seminars, dinners, meetings at faculty houses and free-form bull sessions, all to provide the maximum Techer exposure to the students.

The Y is also planning on revitalizing their House Speaker Bureau. Through this program, the Y can supply the houses, and other interested groups, with a variety of interesting and informative people. In particular, the Y has contact with speakers who are involved in the "relevant" issues, such as drugs and the draft. In cooperation with the Black Students' Union, there are already plans to bring a black scientist to Caltech to talk about the opportunities in science for the Negro.

Many of these programs are still in the planning stage and require a good deal of work to bring them to reality. If you are interested in helping, or just plain interested, contact the Y.

Rotating Discs

GREATEST HITS, by Sly and the Family Stone; Epic KE 30325.

I realize that this album is a year old, but Epic is doing a "re-release everything they did" thing with S & the FS. If you like anything they have done, it's probably here. There are forty minutes of music on the album, and twelve hits that really were hits. It is of their best takes except for "Dance to the Music," which is better on "Woodstock." They give people time to really get into "I Want to Take You Higher," with 5½ minutes of music. Anyway, this is an album to get, unless you have all of the other Sly albums.

STARSAILOR, by Tim Buckley; Warner Brothers 1881.

This album is the unfortunate result of Buckley hanging around too much with Frank Zappa. Buckley's poetic lyrics drown in a sea of overorchestration (atonal, at that) sailed by the Starsailor. What few lyrics are heard are good, but for the most part, he could have been singing in Mesopotamian with equal effect. In fact, he might be. I would not recommend this album to even the most avid Tim Buckley fan, unless he grooved on the sound of "Weasels Ripped My Voice." Don't buy it.

WORDS AND MUSIC by Jimmy L. Webb; Reprise RS6421.

When this album first arrived, I figured it was another one of those albums that get released in order to keep the songwriter happy. After all, Jimmy Webb wrote a lot of songs, ranging from "Up, Up and Away" to "MacArthur Park," but who ever heard him sing (except for one concert with mediocre reviews).

It turns out, not only can Jimmy sing, but he can write better than even "MacArthur Park" indicated. His voice isn't the greatest, but neither is Bob Dylan's or Elton John's. This album is of the style epitomized by James Taylor or Elton John. All but one short song was written by Jimmy Webb, and the songs range from wandering songs to love songs to criticisms of society to rock-and-roll religion. Even though he doesn't like music critics (as stated in "Dorothy Chandler Blues") I, as a music critic, really like this album.

Nick Smith



You say finals are getting you down?
Your G.P.A. has dropped an order of magnitude?
Your humanities prof has an in-class final Friday afternoon?
Is that what's bothering you?

Well, cheer up! Take a pizza break and go to

ROMA GARDENS

PIZZA

BEER & WINE
ITALIAN CUISINE
SPAGHETTI

RAVIOLI

1120 E. Green
449-1948

OPEN 5 TO 12 SUNDAY THRU THURSDAY
5 TO 1 FRIDAY AND SATURDAY



(Note: this column got bumped from last week, so the first part is for your future reference, Dear Readers)

Ron Coden is a little man with a big and luxurious voice and an enormous (compared to him) guitar. He sings songs from musicals ("Impossible Dream," and "I, Don Quixote") and songs by John Stewart ("Razorback Woman") with equal facility and quality. Ron Coden is an excellent singer, and one who should be at the Ice House more often. He puts feeling into whatever he sings, and puts forth the image of the character he presents, be it Sancho Panza or Bojangles. He's good.

Bill (Balloonman) Morrison was having a bad night, and I hope it ends soon. 'Nuff said?

Bob Gibson has been in the music business for a long time, but this is the first I've heard of him

recently. He writes and sings well, and has a really nice backup group. Bob Gibson (not him, the other one) plays 12-string guitar in addition to singing. His style is a little bit like country-western, but not enough to make it repugnant to the pop-folk lover. His lyrics have a loose and flowing style, but when he wants to make a point, like in "Fred Hampton," he makes it. Catch him next time around (at least I HOPE there's a next time).

This week, for those of you who want a pre-final flick, the Dillard's appear at the Ice House, along with Gabe Kaplan and Carol Kristy. That combination is one of the best, and it is very unfortunate that it comes right before finals. All three acts are truly enjoyable, as I've previously stated in these pages. If you can spare the time, go and see them.

—Nick Smith



Matthew (JASON ROBARDS) and Anais (KATHARINE ROSS) get to know each other while they escape the hub-bub of the city life in a scene from "FOOLS". Filmed in San Francisco, the Translor Productions, Inc. presentation was produced by Robert Yamin and Henri Bollinger, directed by Tom Gries with Pat Rooney as Executive Producer. Robert Rudelson wrote the screenplay. Distributed by Cinerama Releasing.

OPENS CHRISTMAS DAY AT THE PICWOOD THEATRE, West L.A.

Jason Robards Katharine Ross

They touched each other and let go of the world



Cinerama Releasing presents A Robert H. Yamin-Henri Bollinger Production
screenplay by Robert Rudelson executive producer Pat Rooney
produced by Henri Bollinger and Robert H. Yamin directed by Tom Gries in Color

FROM CINERAMA RELEASING GP ALL AGES ADMITTED Parental Guidance Suggested

Original Soundtrack Featuring KENNY ROGERS & THE FIRST EDITION on Reprise Records

EXCLUSIVE ENGAGEMENT
STARTS
CHRISTMAS DAY!

PACIFIC'S
Picwood
PICO at WESTWOOD BLVD.
272-8239 • 474-2569

EXTREMELY LARGE STOCK • Evenings 'til 10
PICKWICK BOOKSHOPS

6743 Hollywood Bl., Hollywood
(213) HO 9-8191 • CR 5-8191

Topanga Plaza, Canoga Park
(213) 883-8191

Typing & Technical Editing
by an experienced typist and
technical writer. Per page charge:

\$1.50 straight typing

\$0.50 drafts

\$1.00 technical editing

Phone: 335-2065



ASCIT ESC Goals

Continued from Page Two

system would be very unfair. But I believe this not to be the case. Any ASCIT member or group can apply. I hope the number of people aware of the ESC is increasing, thereby making its work more equitable and widespread. Is the number of grants now too small or too large? Are the objections because only those most competent already will make requests? I don't know quite what to do about this. If you know a way to support those who best can use the money, I know the Committee would welcome hearing about it. Yet to insist that each dollar spent be worth precisely \$1/750 to each ASCIT member is unrealistic.

I would like the ESC to have the option of considering each proposal for funding on its own merits, whether it comes from the ASCIT Social Chairman, a House, a small group, or an individual. But if the Committee is to have loose guidelines, I admit that it must accept feedback, so as not to repeat its mistakes. If a policy of the Committee seems unreasonable, tell it. It is the House Reps who will vote their agreement or disagreement. You can either pass on your remarks to them, or to Bob Abarbanel (Fleming) - acting chairman, or to the Campus-at-large through a letter to the *Tech*. Better yet, come to the next announced meeting yourself. They are all open. I believe that the ESC is one of the best mechanisms we have tried for the purpose of making ASCIT more responsive to student needs. It can only be responsive, however, if it knows what you want it to do.

Only Six More
Shopping Days Until
Beethoven's Birthday

Glee Club Washes Cars, Sings Carols

by Rodger Goodman

The Caltech Glee Club rounded out its 1970 activities with a busy weekend. It all started with the first Glee Club Car Wash, on Friday at the Wilson-San Pasqual parking lot. From 11:00 to 4:00 the water and soap flew as about 40 cars emerged, shining. If you missed this car wash, do not fear; there will be more. All proceeds go towards funding a summer tour to Eastern Europe.

The Club engaged in its primary activity twice on Sunday, with concerts at the Michillinda Presbyterian Church in the afternoon and at the Athenaeum in the evening. At the latter, one segment of the program was devoted to community singing of Christmas carols (and one song for Hanukkah), led by the Glee Club. At both concerts, the Club, under the direction of Olaf M. Frodsham, performed from its Christmas repertoire. There were also selections by the Octet and the Chamber Singers, under the direction of Mrs. Priscilla Remeta.

Monday, of course, was the annual Christmas tree lighting at Throop. Though the 18 foot tree refused to cooperate in time, the Glee Club was there to sing carols. President Harold Brown spoke, and a small replacement tree was lit.

ATTENTION

INTERNATIONAL STUDENTS

Call MARTIN LEWIN
TRANSCARGO, INC.
2240 N. Figueroa St.
Los Angeles Calif.
90065

Specializes in
Overseas baggage shipping
and Commercial shipping.
Air-Ocean-Truck
Serving students for over 10 years.
Tel. 225-2347.

Draft

Continued from Page Three

examination at the time you are inducted, but that examination is never as thorough as even the preinduction physical, and you have no chance of requesting a review of the examination. Some draft boards will refuse to give preinduction physical examinations to men who missed their first physical because they were ill. If you must miss a preinduction physical because you are ill, see a doctor and then write and tell the board that you did not attend the physical because you were ill. Also, either have the doctor send a letter stating that you were unable to attend the examination or else tell the board that you consulted a doctor and that the doctor is willing to verify that you were unable to attend.

If you have any questions which you would like discussed in this paper by a draft lawyer write: Mark A. Peterson
19 1/2 Horizon Avenue
Venice, California 90291

The Caltech Coffeehouse

will be Closed for
finals and vacation
starting Sunday,
Dec. 13

we'll be Opening
on Monday, Jan. 4
(prep for finals
eat it big at the
Coffeehouse)

Classified Ads

SERVICES

Crestline Cabins and Lodge for groups. Weekend and holiday reservations, call (213) CA 1-6849. Brookside Lodge.

Fowler Secretarial Service - 248-1492 - Specializing in: term papers and theses - IBM Selectric - math symbols available - rapid service - reasonable rates.

TYPING, term papers, technical reports, correspondence and resumes typed in my home. IBM Executive Typewriter. Patricia Clabaugh, 792-1641.

HELP WANTED

Driver wanted for lady, 3 times a week, 4 hours a day, \$4.00 per hour. 796-0924.

TRANSLATORS with scientific training required. All languages and disciplines. Free-lance. Send resume to Box 5456, Santa Barbara, Cal. 93103.

FOR SALE

Lightweight motorcycle, ideal for student. 48 cc. Italian made, new. 100 miles/gallon, 39 miles/hour. \$150. 684-1365 or 466-5141.

CASSETTES: lifetime jam guarantee, individual plastic containers. ... C30-\$0.48; C60-\$0.54; C90-\$0.78 C120-\$0.98. REEL TO REEL: reconditioned Scotch or Ampex LOWER NOISE 1800' reg. \$7.35 now \$1.94; Standard 1800' Polyester reg. \$6.20 now \$1.50. DAK ENTERPRISES, 10845 Vanowen, N. Holly. 877-5884, 984-1559.

REICH BOOKS. Sale of publications by and about Wilhelm Reich, including rare writings banned and burned by the US Gov't. For free list, send name and address to Kelley, Box 3218, Santa Monica, 90403.

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.?

The Smart Set PRESENTS

Entertainment & Atmosphere

Designed for Caltech Clientele

WITH

Richard & Pepe on Stage

COCKTAILS - DANCING - & GAMES PEOPLE PLAY

953 E. COLORADO BLVD. PASADENA

RESERVATIONS 449-8391

A graduate school that's more fire than smoke.

Only Honeywell offers a computer course designed exclusively for college graduates. Our postgraduate program for managerial candidates.

No matter what your major was. If you can qualify, you'll be ready to learn computers from one of the world's top computer manufacturers and leading educators, Honeywell.

You'll find yourself ready for the fastest growing industry around. An industry that

doubles in size and opportunity every five years.

Which could make your future pretty bright. All you have to do to light the fire is mail this coupon.

Admissions Officer - Postgraduate Studies
Honeywell Institute of Information Sciences
2600 East Nutwood Ave.
Fullerton, California 92631
(714) 870-0120

☐ I would like additional information on your program.

☐ I would like to arrange an interview

on _____ (date) at _____ (time)

Honeywell will call you to confirm this date and time.

Name: _____

College: _____

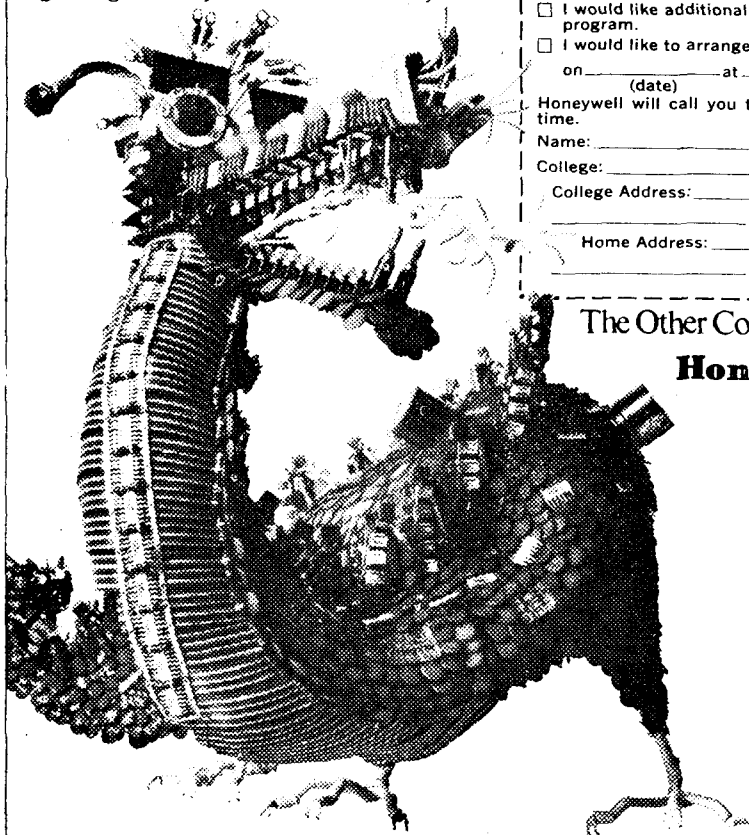
College Address: _____

Phone: _____

Home Address: _____

Phone: _____

The Other Computer Company:
Honeywell



GESTALT THERAPY

2 FILM Programs

With Dr. Fritz Perls, the founder of Gestalt Therapy. The 8 color films, each 1 hour in length, were made for the Canadian Broadcasting Co. prior to Dr. Perls' death, while he was at Esalen in Big Sur. The films are of actual therapy sessions and have been highly acclaimed and widely praised.

Program I
Wednesday DEC. 9
What is Gestalt?
Dr. Perls explains the basic principles of Gestalt Therapy to a group of twenty people in a "living room" setting. One person becomes the subject for an introduction to "Awareness Training."

Awareness
Dr. Perls uses four members of the group as examples of the Gestalt Method as a learning process with widespread implications. "How you can begin to increase your potential," "Understanding the idea of suffering," etc.

The Philosophy of the Obvious
Two dreams are worked through with Dr. Perls in this introduction to the use of dreams in Gestalt Therapy, examining our two levels of existence, the inner world and the outer world; connecting the Gestalt in our fantasy with the Gestalt in the real world.

Madeline's Dream
A startling breakthrough in self-discovery as a young girl re-lives a repetitive dream using the Gestalt Method and discovers some basic truths about herself.

Program II
Thursday DEC. 10
Memory and Pride
A basic outline to the Gestalt approach to anxiety as Dr. Perls works with a young woman who is self-conscious about her height, and then with a man troubled by an ugly memory of the war.

Marriage
Using two married couples, Dr. Perls demonstrates the Gestalt Method of achieving more honest communication in marriage.

The Gestalt Prayer
Again using the relations of married couples, this is a development of the basic statement of Gestalt Therapy regarding responsibility, "I am I and you are you. I am not in this world to live up to your expectations and you are not in this world to live up to mine."

Everything is Aware Process
A consideration of the dimensions of existence, duration and awareness, using a vivid dream experienced by a middle-aged woman, demonstrates the Gestalt approach as a means of unifying one's concept of total existence.

Program I Wednesday DEC. 9
Program II Thursday DEC. 10

Each Night
7:30, 9:30

Eagle Rock Elementary

\$1.50 Chicksaw at Caspar \$1.50

2 blks. s. of colo. blvd.

Sorbonne Summer Session

for American Students

Extension universitaire de l'Universitaire de Paris

COURSES OFFERED

Professorial Staff from l'Université de Paris: M. Georges MATORÉ, M. Antoine ADAM, M. Maurice DUVERGER, Mme Cécile GOLDSCHIEDER, M. Jacques Van den HEUVEL

I. Lower Division Courses			III. Graduate Courses (open to last semester seniors)		
102	Elementary French - emphasis on grammar, phonetics and conversation. (prerequisite: 2 years high school French or 1 semester college French.)	60 hours	515	17th Century Literature - study of Baroque and Classical trends of 17th century.	30 hours
201	Intermediate French - grammar review with emphasis on conversation. (prerequisite: 1 year college French.)	60 hours	525	18th Century Literature - study of the whirlpool of new ideas during the first half of the 18th century.	30 hours
202	Intermediate French - composition and syntax study. (prerequisite: 201 or equivalent.)	30 hours	535	19th Century Literature - study of French Idealism from Lamartine to Hugo.	30 hours
212	Intermediate Phonetics - emphasis on pronunciation, reading and speaking. (prerequisite: 102 or equivalent.)	30 hours	555	French Drama - indepth study of 2 or 3 contemporary plays including ALL aspects of its nresentation and literary merit (décor, mise-en-scène, audience participation, etc.).	30 hours
II. Upper Division Courses			565	French Art - study of the evolution and revolution in art from the Middle Ages to the 17th century.	30 hours
331	French Civilization - political, social and intellectual deve- lopment up to the French Revolution, with emphasis on literature and art. (prerequisite: 202 or equivalent.)	30 hours	566	French Art - study of the movements and schools of art from the 17th century to the present. (to be offered summer 1971.)	30 hours
332	French Civilization - political, social and intellectual deve- lopment from the French Revolution to the present, with special attention given to literature and art. (to be offered summer 1971.)	30 hours	585	French Stylistics and Creative Writing - study of structural and semantic elements and their application in literary expression.	30 hours
412	Advanced Phonetics - intensive practice in pronunciation, reading and speaking, to achieve a true command of the spoken language. (prerequisite: 202 or equivalent.)	30 hours	IV. Graduate Seminars		
421	Survey of French Literature - advanced study of French literature from the Middle Ages to the French Revolution. (prerequisite: 202 or equivalent.)	30 hours	605	Baudelaire - les origines de la poésie contemporaine.	30 hours
422	Survey of French Literature - advanced study of French literature from the French Revolution to the present. (to be offered summer 1971.)	30 hours	615	Flaubert devant la Critique - ses contemporains, la critique traditionnelle, la nouvelle critique.	30 hours
433	Principles and Methods of "Explication de Textes" - advanced study of techniques and elements of literary expres- sion in poetry, drama, and prose.	30 hours	655	La Notion d'Engagement - de 1918 à 1938, de 1939 à 1958, de 1958 à 1970.	30 hours
			NOTE: Special "Conférences" will be given, if the demand for them is sufficient. (Gallo-Roman Art, The Recent Discoveries in Archaeology, The New Wave in French Cinema, French Politics since De Gaulle; France and the Common Market, The French Press, Education since May '68, France and the Problems of Big Business, etc.). Therefore, students are asked to indicate their choice on the application form.		
			10 hours		

KEY TO COURSE NUMERATION

Undergraduate Courses: The first number represents the academic year (100 = Freshman, 200 = Sophomore, etc.).
The second number indicates the general subject-area treated (0 = Grammar & Composition, 1 = Phonetics, 2 & 3 = Literature, Civilization, and related subjects).
The third number represents the semester level.

Graduate Courses : The 500 and 600 serie courses represent graduate level. The last two numbers designate the course title.

CREDIT

REGULAR ATTENDANCE is a requisite for obtaining credit.

Although the purpose of this summer session is to fulfill the requirements of American college and university credits, it also conforms to French university regulations. Each 30 hours course is usually equal to 2 American credits. If students successfully complete the average summer session load of 90 hours, they normally receive 6 American college credits. However, students are advised to consult with their professors, their Department Chairman, their own school's Registrar's Office, BEFORE MAKING FINAL ARRANGEMENTS, to ascertain the EXACT number of credits their school grants for the Sorbonne Summer Session.

SORBONNE SUMMER SESSION

for American Students

A special Summer Session is offered by the "Cours de Civilisation Française" at the Sorbonne for those students who wish to improve their knowledge of French language, literature, and civilization. This program is particularly designed with American academic needs in mind, as it can meet the standard semester requirements of most universities and colleges.

Thus American students can derive the double benefit of foreign travel and college credits.

Similar to American summer sessions, the Sorbonne Summer Session lasts six weeks, June 29 to August 7.

A round trip flight from New York to Paris by Air France will be scheduled to leave New York June 28 and return from Paris August 8. Students on this program will enjoy the privacy of a luxurious apartment plus two meals a day. All university fees, a round trip ticket, apartment and meals will cost only \$1638.

RESERVATIONS MUST BE RECEIVED BEFORE JAN. 20, 1971.

For Pre-Enrollment and Reservations, please air mail special delivery the following items to Dir. M. Ward McIntosh/ASTRA, Summer Session for American Students, Cours de Civilisation Française, Sorbonne, 47, rue des Ecoles, Paris 5^e, France:

- this application form.
- a 65 dollar deposit (by International postal money order).
- a transcript or transcripts of college or university work.
- a small recent photograph.

APPLICATION FORM

Please type or print all information.

Last name (Mr., Mrs., Miss)

First name Date of birth

Permanent address

Academic standing as of Sept 1970: Freshman, Sophomore, Junior, Senior, Graduate
University or college last attended

University or college address

If different than the above, address of university or college to which Sorbonne
transcript should be sent

Date and type of diplomas earned (or to be earned) as of June 30, 1970.

Major Minor

Teaching experience (indicate level, subjects taught, number of years):
.....

Name and address of persons to be contacted in case of emergency:


Courses selected: (please check)			
102 <input type="checkbox"/>	301 <input type="checkbox"/>	515 <input type="checkbox"/>	605 <input type="checkbox"/>
201 <input type="checkbox"/>	302 <input type="checkbox"/>	525 <input type="checkbox"/>	615 <input type="checkbox"/>
202 <input type="checkbox"/>	331 <input type="checkbox"/>	535 <input type="checkbox"/>	655 <input type="checkbox"/>
212 <input type="checkbox"/>	412 <input type="checkbox"/>	555 <input type="checkbox"/>	
	421 <input type="checkbox"/>	565 <input type="checkbox"/>	
	433 <input type="checkbox"/>	585 <input type="checkbox"/>	
Choice (or choices) of special "Conférences"			
Will you be taking the final examinations for credit?			

POLLUTION = (POPULATION)²
 X = support + volunteers + dollars
Pasadena Planned Parenthood
 1045 N. Lake Ave. 798-0706
 Your friendly neighborhood birth control center

CHANDLER'S
PRESCRIPTION PHARMACY
Serving Caltech
 Page E. Golsan III, Pharm. D.
Free Delivery
 1058 E. Green Street 185 S. Euclid Avenue
 (Corner Green & Wilson) 793-0607
 792-2211 Pasadena, California

HI LIFE
 1758 E. Colorado
 449-9705
SPECIAL DAYTIME OFFER for Caltech students, faculty, alumni, and employees over the age of 21.
 Good from 12 noon to 3 p.m.
 A sandwich and beer for \$1.00. (Your choice of eight sandwiches) Upon presentation of Caltech ID.
PLUS TOP ENTERTAINMENT!
BABY DOLL
RINDY MARTIN
TONI FELICE
KITTEN
JOANIE ALLEN
 and the rest of our top girls

SPECIAL DISCOUNTED
STUDENT AUTO INSURANCE
 43% AVERAGE SAVINGS
 NO SACRIFICE OF COVERAGE OR SERVICE
 • PAYMENT PLAN TO FIT YOUR BUDGET
 • LICENSED BY STATE OF CALIF. DEPT. OF INSURANCE
 • NO MEMBERSHIP FEE REQUIRED
 • PLACEMENT GUARANTEED
COLLEGE STUDENT INSURANCE SERVICE
 5440 Pomona Blvd., L.A. (213) 723-0712
 (near Atlantic) Robert Wallace

FRANK D. CLAY & SON

CHEVROLET
CAL-TECH STUDENTS AND EMPLOYEES!
 For special consideration on your new Chevrolet Car or Truck ask for **ERNIE HAYWARD**, Fleet Manager, or **JERRY SHEPHERD**, general manager.
"SERVING PASADENA SINCE 1922"
 2605 E. COLORADO BLVD.
PASADENA 796-2603

Why doesn't General Electric sell new ideas to the cities instead of new gadgets to the suburbs?

After thirty years or more of neglect, there's no question our cities need help.

But what kind of help?

Will another thousand sanitation men be the answer to dirty streets?

Will doubling the police force finally bring crime under control?

Can new rent laws force landlords to provide more low-income housing?

All the old, obvious ideas have been tried. What's needed are new ideas and new technological developments.

General Electric has been working on the problems of cities for a number of years now. And in that time we've come up with some things we think will help.

Garbage

General Electric research has come up with what is probably the most revolutionary idea in garbage disposal in years. Our scientists are working toward a process by which a special strain of bacteria converts garbage into a high-protein food for cattle.

The process is still something of a "laboratory trick," but it could be in the pilot-plant stage in as little as three years.

Crime

You might not expect a company like General Electric to be doing anything about crime.

But the fact is, GE has been working with the Syracuse police, looking for a new approach to the problem. Our scientists there came up with a whole new concept in police organization called "Crime Control Teams."

In their first year, these teams were credited with cutting crime 62% in one large, representative neighborhood of Syracuse. And the concept has since been adopted by a number of other cities.

Housing

To meet the critical need for new low-income housing, General Electric is participating in the Department of Housing and Urban Development's Operation Breakthrough.

While GE has no intention of going into commercial home building, we do hope to supply the builder-developer with new products needed to improve his efficiency.

We now have several design prototypes of advanced, modular homes that can be assembled in a matter of hours.

These are just a few of the new ideas General Electric has come up with to help cities at the same time that we continue to improve

"gadgets" to help people.

We don't think our home products are at all unnecessary or frivolous. If they seem that way, it's because people have forgotten how much they rely on them. To wash dishes. To wash clothes. To keep warm. To keep cool. To entertain. And on and on.

New ideas for the cities and new "gadgets" for the home both have the same end in mind, after all. To help people live better.

Why are we running this ad?

We're running this ad, and others like it, to tell you the things General Electric is doing to solve the problems of man and his environment today.

The problems concern us because they concern you. We're a business and you are potential customers and employees.

But there's another, more important reason. These problems will affect the future of this country and this planet. We have a stake in that future. As businessmen. And, simply, as people.

We invite your comments. Please write to General Electric, 570 Lexington Ave., New York, N.Y. 10022.

GENERAL ELECTRIC



Cover charge reduced to 50¢ on Monday thru Thursday nights; waived on Sunday, Friday, and Saturday with presentation of Caltech student, faculty, alumni, or employee identification card.

Second Class Postage paid at Pasadena, California. The California Tech is published weekly except during exams and vacation periods by the Associated Students of the California Institute of Technology, Inc., Winnett Center, 1201 E. California Blvd., Pasadena, CA 91109. \$4.00/year.

LOVE STORY
ERICH SEGAL

The #1 Bestseller now an NAL paperback and a great Paramount motion picture starring Ali MacGraw and Ryan O'Neal.

95¢

Wherever paperbacks are sold

NAL

SIGNET