Behavioralists Tell of Impact on Society

by Etoin Schroedl

The Caltech Y presented its second "Impact" conference last Saturday, on "The Impact of Behavioral Engineering on Society." According to the organizers, the event was held last year. The conference moderator and introducer was D. C. Thoeseen of Stanford.

"Rooster Questions?"

Dr. Thoeseen, an associate professor of education, was speaking from the point of view of the behavioralists. After assuring the audience that he was not there to defend B. F. Skinner, "He is perfectly capable of defending himself." -- Dr. Thoeseen presented a sample case of how behavioral approaches could alter the social behavior of an individual in order to make him behave in more socially-acceptable ways. After a brief statement interpreting the humanistic approach to human behavior, Dr. Thoeseen surveyed the history of behavioralism, which began with a very simple, Pavlovian stimulus-response model of human behavior, and has since progressed to a more complex model in which man both influences and is influenced by his environment. Dr. Thoeseen responded to a general criticism of behavioral engineering on society.

Continued on Page Eleven

Electoral Results

Rejected: May 18

New Election

by Gavin Claypool

Friday's vote and ASCIT special election were invalidated Monday by a vote of the scientific community. Shiller, relating to the writing-in of "none" votes. Shiller stated that some members of Ruddock House believed writing "none" or similar phrases constituted a "no" vote. It had become known that the Election Committee had counted only explicitly-written "no" votes, excluding the "none" and other votes to the "obvious" list. The diners of the vote for Social Chairman indicated that the ignorance of some students on how to vote "no" correctly may have made a crucial difference.

It was generally agreed that ballot stuffing should not be included on the ballot, or be otherwise made available. Appeals to the fact that correct ballotting procedures appear in the little t were to no avail.

An exception was made for two sophomore offices (secretary and treasurer). These offices had no nominated parties. Nominations for those offices will close 6 p.m. on May 15, with the return election on May 18.

Nixon's The One

There Was A Sign In The Sky...

by I. Wett

The names of most people in the Caltech community today are being protected and identities are being attempted to limit the number of obscene phone calls they receive and their RA receive. Names of certain people have been withheld because it is uncertain whether they will be alive at press time. Note, however, that "Bored Nixon" -- a name used herein, refers to the current president of the State University, and should not be considered to be a pseudonym.

New court actions indicate that the press may or may not be required to reveal its news sources. In this article, news sources are not revealed. If you cannot guess who the participants are, consult your local FBI office. (796-7826)

The sign had been in planning stages for more than ten months; following the May 11 and May 12, 1972, sign fiascos. These two signs, which may never reach the face of Million Library for less than six hours each. Many people who slept late on those days following the mining of Haiphong harbor never saw the "OUT NOW" landmarks. Mark Wambrow developed the design for the sign's expansion anchors. Research conferences were held at many locations at Caltech, and, to throw the enemy off guard, at other sites outside the United States (the Weasel River valley, for instance). Once the anchor design existed, only a sign was needed. Various members of Danney House suggested that the sand- rate burglary job at the Watergate Hotel was maybe just a teeny-weeny bit less than excusable, and the phrase "Impeach Nixon" was decided upon for the sign.

Wednesday

On Wednesday, May 2, the men and women of Danney House flocked in their studies to begin their independent-study project. Supplies were bought: 39 yards of muslin, 100 feet of humber, 2 quarts of toiletine red paint, 2 pounds of aluminum, thread, nuts and bolts, and various sundries. Construction began on three fronts on Wednesday night. Carl Josephson and Rich Keyfader sewed muslin strips together after figuring out how to run a sewing machine. Meanwhile Pete Gloater, Tungsten Black, and others were assembling the 16x22-foot frame, and Wambrow and the aluminum searched for a mill.

Thursday Morning

After the sewing (it was this time Thursday morning), Keyfader, Rich Richardson, Mike Pariste, and others trolled out the legs on the muslin ("say, how do you spell ‘impeach’?"). Soon the 2x3-foot red letters proclaimed to the dinnings room roof: "IMPEACH NIXON." Meanwhile Wambrow was coaxing various mills into action. After four hours of this exciting work, he decided to flick it into the night, and so our heroes got a few hours sleep.

Thursday Afternoon

On Thursday afternoon Wambrow and Keyfader drove to Altadena and Sierra Madre in search of better milling apparatus. On Thursday night the final work sessions began. Wambrow, Keyfader, Jim Moon, and later Behringer started work.

Continued on Page Nine

Corporation Meeting

Today

Please turn to page eight

Sturtevant Memorial

In Memory of ALFRED HENRY STURTEVANT

CHIGNACID AND NATURALIST, PROFESSOR OF BIOLOGY AT THE CALIFORNIA INSTITUTE OF TECHNOLOGY FROM 1920 TO 1944

STURTEVANT RESEARCH INSTITUTE AT THE CALIFORNIA INSTITUTE OF TECHNOLOGY

To Fill the Space Allotted
Editorial

Pleading the First

During the past half-decade, this nation has been engaged in a process of self-flagellation. It has weighed and pondered its every move. And this is all for the good. When a man ceases to weigh his every judgement and takes a course of gut-level reaction, he becomes less than a man.

The Administration has neither condemned nor condened the sign on the face of Millikan, though it appears to have cost the Institute more than one million dollars (due to gut-level reactions, of course). Further, the sign provoked controversy, and an interest in the state of the Union that is becoming too rare these days.

For better or worse, we feel that the posting of the sign will. As a result, the Institute has been conducted on the face of Millikan. Though it appears to have cost the Institute more than one million dollars (due to gut-level reactions, of course). Further, the sign provoked controversy, and an interest in the state of the Union that is becoming too rare these days.

For better or worse, we feel that the posting of the sign will have led to a process of self-reflection and a renewed commitment to the values of the Caltech community. When a man has weighed and pondered his every move, he becomes a better man.
New Courses

\[137+138+139=129\]

by Phil Niche

Course offerings next year in Information and Computer Science will be completely revamped, pending only final approval by the faculty. The largest change will be the elimination of IS 129, and its replacement by a three-course sequence, IS 137, IS 138, and IS 139.

IS 129, long the mainstay of Caltech’s few software-related course offerings, has become something of a special topics course since the departure of Stephen Caine and the return of Howard Morgan to Cornell. IS 129 has been billed “Introduction to Programming Systems” in the catalog, and usually covered assemblers, compilers, loaders, and the like.

Learn to Program

Each course in the new sequence will be 12 units (distributed 3–3–6). IS 137, offered first term, will be on structured programming. IS 138 (second term) covers data structures and algorithms. IS 139 (third term) will be on multiprogramming and resource sharing, and should be essentially similar to IS 139 as taught this year under the title “Operating System.” All three courses will be taught by Per Brinch Hansen.

IS 170, which has not been taught for a while, will disappear from the catalog. In its place will be IS 141, “Formal Models of Computation,” to be taught first term by Dr. Ingargiola. The course will cover such topics as Turing machines, recursive function theory, and automata.

In a Laboratory

A “Programming Laboratory” will debut under the guise of IS 140ab, offered second and third terms by Dr. Ingargiola. Enrollees will work on projects for two terms in small teams, making weekly progress reports to the class. The course will be 12 units (3-9-0), and the 9 lab units will count towards the unrestricted 9 unit lab requirement in Engineering.

The seminar course, IS 281, will disappear next year. A graduate-level reading course, IS 282 (6 or more units, Instructor: Hansen) will be offered more or less in its place. As we go to press, all indications are that the remaining IS courses will be offered as usual.

CEAC Meeting Tonight

Continued from Page Two

Recycling cannot survive without a responsible effort by all parties to keep the center clean and well run, either through active participation in maintenance or through careful, responsible handling of recyclable materials by the center users (bundled newspapers, de-ringed bottles, crushed cans, separated materials). CEAC itself can be a vehicle for members of the community to learn or express their concern about important environmental issues. But nothing can be done without you people.

There will be a meeting this Thursday evening, May 10, at 7:30 p.m. to discuss the future of CEAC and the recycling effort at Caltech. Do come if you are interested in or concerned about our environment.

Brian Yandell

THE CALIFORNIA TECH

Miss Nude World

In Naked City

by Harold Brown

President of Caltech

[Ed. Note: Last week The California Tech printed com­ments by Dr. D. R. Smith, Master of Student Houses, on the undergraduate student housing situation at Caltech. This week the Tech presents comments by Caltech President Harold Brown on the subject.]

I understand the desire to have comments and answers to questions on undergraduate hous­ing from me. Before responding, I would like to note a general problem raised by giving my opinions at this stage. Many of these questions involve subjects that may — and often will — ultimately come to me as recommendations of various fac­ulty or student groups or admin­istrative officers, for decision. I am loath to take positions without first receiving the in­formed views and recommenda­tions of others, because I do not want to bias future consideration and decision.

Regarding the particular ques­tions you raise, I am already on record on some of them. For example, on the optimum size of the undergraduate student body, I have already stated my feeling that clearly undergraduate stu­dents are an important part of Caltech. Thus at one extreme, a size of zero would be a mistake. At the other extreme, if for no other reason, economic con­straints dictate that we can’t double or triple the present size. Between these extremes the choice involves a judgment, weighing the effects of size on the quality of education for those who are admitted versus lost opportunity for those not admitted. My personal feelings would lean toward some very modest increase in undergraduate student body, perhaps to some­where in the neighborhood be­tween the present 800-odd first term registration and 1,000.

As to the optimum number of students in the Houses, additional housing, and how to make a selection if demand exceeds supply, I see no easy answer. I think Freshmen have a particular claim to places in Institute housing, and it seems to me that we must weigh carefully their special needs as well as the fact that future Freshmen classes have no voice in this present discus­sion. I hope we can provide, and think we should try to provide, a variety of housing possibilities embodying different living styles. We have made a modest start in this direction. I certainly think we should consider the possibil­ity of using other Institute­owned houses or apartments if economically sensible arrange­ments can be made and if the necessary student leadership to take appropriate responsibility can be found. Both financial pressures and varying student interests are certain to have a strong influence on how these decisions are made. Despite all runs to the contrary, the administration does not have a printing press for money in the basement; what it favors is more sinks than sources.

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Profs Elected to Academy

Four California Institute of Technology faculty members have been elected to the National Academy of Sciences in recognition of their outstanding research, the academy announced in Washington, D.C.

They are Drs. Gerry Neugebauer, professor of physics and staff member of the Hale Observatories; Robert P. Sharp, professor of geology; Kip S. Thorne, professor of theoretical physics; and Simon Ramo, research associate in electrical engineering, Caltech trustee, and vice chairman of the board and chairman of the executive committee of TRW, Inc.

They bring to 48 the number of Caltech faculty people who are members of the academy, giving Caltech the highest percentage of faculty membership in the NAS of any institution.

Dr. Neugebauer is recognized as a leader in infrared astronomy, involving measuring the infrared (heat) radiated by planets, stars and galaxies. He was the principal investigator of infrared experiments on Mariners 6, 7, and 9, which mapped the heat radiation from Mars, and he directed the infrared measurements of the Mariner 2 exploration of Venus in 1962.

Dr. Sharp is credited with greater influence in two areas of geological science than any other American—the observation and theory of glacier flow mechanics and the analysis of natural processes at work in the desert, particularly those involving sand dunes.

In his research on the nourishment, structure and mechanics of glacier flow, Dr. Sharp pioneered in using oxygen-isotope analysis to study glacial ice at various depths.

Dr. Thorne is recognized as the leading relativistic astrophysicist in the country. His field involves applications of relativity...
The Critical

Stomach

by PMN/MRBEAS

Tech Recently you (elder) Tech
trio tried the new restaurant, the
Sawmill by name, on Lake
Avenue south of Del Mar. We
were early, business was slow-
date was quiet (and good). Prices
are beyond the range of most
Tech students—$5-$7 for
ner— and the quality equally
Better things are used to
The bill of fare included
several lots of meat and fish,
though it was primarily depend-
ent upon the steak. The varied
main courses sampled by our
reviewers were pronounced excellent,
and ample. There was also a
help-yourself, infinite-seconds
salad bar, with many different
dressing, spices, and other toppers.
The wine list was adequately extensive and satisfactory. The decor was interesting.

That's The Sawmill, at
the sign of the rough-hewn exterior.

Kevles on
Watergate

Dr. Dan Kevles, Professor of
History at Caltech will lead a dis-
ussion on Watergate, Civil Liber-
ties, and Presidential Power. Dr.
Kevles was a former White House
Aide under Lyndon Johnson. Kev-
les will speak in Winnett Lounge
Wednesday, May 16, at 7:30 p.m.

Retraction

In last week's Tech, in the arti-
tle titled "Throop Site Decision
Imminent."
Herna Weisblat was
referred to as "the Blacker RA's
wife." Ms. Weisblat should have
been referred to as one of the
Blacker RA's. It should be noted
that she is a registered architect.

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THE CALIFORNIA TECH
Page Five

by Peter Beckman

With the coming of May and
the (hopeful) end of the South-
er California rainy season, the
time has arrived for outdoor rock
concerts. The biggest upcoming
event in this area is, of course,
"A Day on the Green" at the
Ontario Speedway on May 27.
This all-day event (8 a.m. to
5:30 p.m.) will star The Grateful
Dead, The Allman Brothers,
and Waylon Jennings. Tickets are
available through Ticketron or
mail order from Grateful Dead,
90049.

Indoors offerings this weekend
include Alice Cooper at the
Inglewood Forum Friday night,
and the following evening the
group will play Swing Auditori-
num in San Bernedo. Loggins and
Mezzina with Argent will appear
at the Anaheim Convention
Center Saturday evening, while
twenty miles away Leon Russell
will be performing at the Long
Beach Arena. But you can still
see both since Russell will repeat
his concert the following night.

The Santa Monica Civic Audi-
torium will be the scene of a
Paul Simon concert May 19. The
first performance will be at 8
p.m., and a second show has just
been scheduled for 11. May 26.
Procol Harum will be at the
Anaheim Convention Center,
and the following evening Lee
Michaels will perform at the
Long Beach Auditorium.

Theatre

On stage the Music Center,
currently has two fine offerings.
The L.A. Civic Light Opera is
producing Oliver!, at the Pavilion
while the Alhambra Theater is the site of Joseph Papp's
"City of New Orleans," and others, as well as the pure
bluegrass "Crippler Creek." There
were also a few good original
songs, such as "Long-Stemmed
Rose," and in general Paul
Simon's music was very listen-
able. I would really like to hear
him in a return engagement,
outside the confines of Long

Beach's looming in the wings,
Mason Williams looming in the
wings, and with a less-strength
audience. And I think it is going
to get better.

Mason Williams has
found himself a really impressive
backup group, if you can really
call them that. Actually, Mason
Williams is part of an excellent
group calling itself the Santa Fe
Recital. M.W. is the guitarist,
and the other instruments include
a Fender bass, drums, cello, and
either banjo or fiddle. Their music
includes those written by Mason
Williams, country-western
standards, and the best parts of bluegrass. If they play
identified more of the songs, I could
even tell you what they played.

Actually, after a total of two
complete shows, I gleaned a total
of eleven song titles.) Their version of "Foggy Mountain
Breakdown" was especially good,
as well as "Steve's Jig," sort of
an "Country" country variety.
There was also, of course, the obligatory encore of "Classical
Guitar"—which is Mason
Williams looming in the wings,
and "A Day on the Green" at the
Pavilion south of Del Mar. We
were early, business was slow-
date was quiet (and good). Prices
are beyond the range of most
Tech students—$5-$7 for
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self to try the U.S. Women's Ski Team Diet. That's
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WHERE ARE THE BIKeways?

You've probably heard a lot about today's bicycle boom and its many advantages: bicycling is fun. It's quick, convenient, healthy—and fun. You might say that bicycling is one of the world's greatest inventions! However, there is one big, sobering drawback: Biking in North America today simply isn't safe. An estimated 900 bicycle riders will be killed this year, and an estimated 250,000 will be injured in bicycle-related accidents this year alone. In many cities, these accidents could be avoided with adequate bicycle facilities. Bicycles are far safer than cars just for bicyclists and safe routes in communities. The Sierra Club figures that a country's 80 million cyclists have only killed 4 people this year. For every 9.5 miles of bikeways built, only 13 victims of bike/auto accidents this year alone were killed. However, they could all be avoided if bicycle facilities were built. The map shows the extent of the cyclist need. Bicyclists are far from ideal. Instead of protective curbing to separate bikeways from auto streets, you usually find just white lines or signs along the road's edge, which do little more than tell both cyclists and motorists into a false sense of security.

Who is holding things up?

Why aren't our millions of bicycling taxpayers provided with better, safer facilities? Because most government bodies continue to pump money into still more roads, highways, while other parts of the transportation system, please send us a contribution of $5 or more. You can help bring about needed safer facilities.

New Women's Chorus
To Highlight Concert

The Jefferson Airplane

What is the bikeway community like?

There are many options available. Well-defined bikeways, separated from traffic on busy roads by curbs or by medians. Bicycle parking lots, or bike racks located throughout the city. Commuters bicycling to public transportation stations, store their vehicles, and continue by bus or rail into commercial centers of the city.

How can you help Bikecology help you?

You can help bring about needed changes that will benefit bicyclists. Bike rider or not, if you are interested in a safer, more accessible transportation system, please send us a contribution of $5 or more. You can help bring about needed changes that will benefit bicyclists.

As a Bikecology supporter, you will receive regular newsbriefs, "Bikecology"—a monthly of bikeway and bicycle transportation issues.

Please mail the coupon and your check to:

KELLEN KOLSUM, Executive Director

Boston Street

The Beatles

Renaissance Monarchs, Volume I

This is the Early Beatles, live in concert. The Beatles in their early years. "Please Me," "She Loves You," and lots of others are there. Enclosed are the millions of screaming Beatle fans live. Beatle concert goers are noisy at first. As the going gets better, they calm down. You can ask the next one approaches the latter stage. If you ignore the tape bliss on the recording, you can close your eyes, and imagine yourself sur-

The Undergroun

Ear

Dan McCready

Those of you who had the pleasure of attending Light presented last December by the Glee Club will be delighted to know (as if you didn't already) that there will be two performances this week in Beckman Auditorium. This year's theme will be the successful concert tour last summer of Yugoslavia, Austria, and Germany. (You can feature color slides of the trip and six Yugoslav songs arranged by the club's Director, Olaf Froshold.) Shirley Marnutz (whom we know also as the director of the Spectra Productions) will narrate. Here are some Women's glit choral choirs in which Miss Monica Reofer, will perform in a one-man show to begin with. The women will sing separately and in numbers by the mixed Choir.

This concert will be recorded and the albums will go on sale June 15th at the Ticket Office or the door, but a Tech ID will get you a free one.

Next Monday Night, May 14, the final lecture of the 1972-3 year. Watson Lecture Series will be presented in Beckman Auditorium. Dr. Leroy Hood will speak on the "ABC of Cancer." Professor Hood is studying how information in the body functions in the genetic origin of specialized cells that produce antibodies, and how these cells change and reproduce from body cells and proteins.

Dr. Hood received his BS and PhD degrees at Caltech in 1960 and 1967, with an interchange at Johns Hopkins School of Medicine from which he received an MD in 1964. Before joining the faculty of his alma mater he did research in immunology at the National Institutes of Health.

THE CALIFORNIA TECH

Thursday, May 10, 1972

Spectrum Production 4 is presented with the aid of Friends and Cynecide, starting Michael Dan- nagan as Trousil, Susan Burke as Cynecide, with Roy Heiman, Paul, and Terry Kovac as Donnolo.

This is an English translation (modern English that is) of Chaucer's original poem, which has been cut down to preserve the general sense of the text. There will also be a selection of its characters portrayed by David Willman, Steve Aley, Kyle Keaty, and Bill Derrick.

The performances will be a Baxter lecture hall at 8:00 p.m. with tickets sold at the door. Two dollars general admission and $1 for students.

E YOIAN SCHNEIDER

Wise, well you are, I. RAN- dom Teacher, several years out of college, working for a computer firm in a large American city, and your life is a big bore. You hate your job; you hate your wife; you are an actress, but (a very bush-league one), has walked out on you because so far as you're concerned you're totally fed up with your old lifestyle. So what do you do? You quit your job, and job, and snapning on such subjects dear to the hearts of Ttechy as lockpicking, illegal jail, unwor- ful computer, and skulking about, preparatory to escape into Life of Crime.

A few awkward things happen to you along the way, but by large things happen to you very poorly as well, especially when you branch out into blackmail, using weap- on you happen to have to finish the course of your jewl thieve. You meet a girl that one of your burned in yesterday, and there's a lot in common with you (Jacque- line Binet), and shuck up with her. When you leave a chess piece behind after a lobby, the Press tabs you "The Chess Burgler," and the police talk the local newspaper's chess editor into challenging you to a game, one move per bursary, so you glibly program an off-duty computer (after all, somebody at MIT figured out how to it) to play chess and beat him (that's a toad, so that's OK). Finally you steal a $60 diamond and make a monkey out of poor old Dave, the middle-aged insurance investigator who has caught on that you're the Chess Burgler but can't prove it (despite finger- prints and semi-infinite direct extinctions of his hanger-in-hole in you).

It's all there, in the Trio Who Came to Dinner, with Ryan O'Neil as the thief and Ttechy women who headed a which finished a run at the Academy Theatre. It seems likely to come back sometime soon, and funny enough to be worth continuing Page 9 Continued on Page Nine
Get Away From It All

by Jane Turscyan

Welcome to the Information Exchange. Travel Column series. This is the first of several columns telling you about fun places to visit and good things to do. You'll vicariously get into life in New Mexico, Mexico, South America. You'll hear about exotic but reachable places like Monaco, the Canary Islands, India, and Morocco. Then there are columns about things closer to home like bike riding and bicycling in the U.S. and backpacking in Canada and Mexico.

Authors Randy Mink, Mike Schultz, Tom Grim and Ed Buyan will tell you a bit about how to get to these places and what to see. And they ought to know. Mink wrote "Asia for the Hitchhiker" and the soon-to-be-published "Mexico and South America for the Hitchhiker." Ed's the author of "Vagabonding in Europe and North Africa" and "Vagabonding in America," Tom Gramm's "Hitchhiker's Handbook" tells it all. These guys have been there and back and loved it, as we'll see from the articles. If you're thinking right now, "I haven't got the money or the time to travel," think again. The world is full of opportunities for traveling cheaply.

Riding these columns hopefully will get you into the mood for charting your own course. But one newspaper story can only take you so much; it can't begin to hit the nitzy-gritty details you need before navigating even begins.

THE CALIFORNIA TECH

by Thumper

Tijuanaart might have appeared as promising as the Art Department turned scull onhellip; but together a show in seven hours that was meant to be put together in 4 days (Note: for setting up art exhibits in the first place is never adequate). If you showed up for the opening Friday night you might never have known save for the lopided hanging paintings (that might have swayed by a tremor of some dimension) or missing tags on works of work or dates of 1972. But who ever looks beyond the drinks at an opening anyway. Quite frankly Sally Shapla got together the impossible and I think are ought to be appreci­ative of small talents to go with the "known" talents. Two names will remain in the mind most prominently, as they did the majority of the work in the show. Benigna Serrano and Danielle Gallois. Danielle Gallois, wife of Serrano, was born and brought up in France, unlike her fellow artists in this exhibit, but the influence of the Mexican culture has made a definite impact in her work. As an example, she has worked in some fine water colors and ink drawings, unique paintings and fantastic tapers which she designed and which were woven in Oaxaca. (If you know anything about tape­tries you will really appreciate the work and definition found in these, and if that girl really did all the work in Baxter last year, she's got a hell of a lot of motivation.

Men fall Behind

Benigna Serrano, the second of the two most prolific exhibit­ors, deals with exotic sculptures which are dealt with the human form and the religious symbolism. In keeping with the culture of Mexico the sculptures are dressed in almost clashes colors and the construction is kept in a hand-made appearance (highly contrasting to the last sculptor at Baxter Art Gallery, Max Finkelnburg). No attempt is made at concealing the method of construction or at refining a technique to match technical standards of the 20th century American sculptors. Guillermo Mellado has stepped out of the rendering syndrome into a much more finished technique however, still keeping the bright and vibrant color scheme of his fellows. If you look closely at these angular and highly detailed women you may find again the ever-present reli­gious overtones.

Jean Badis two very fine pieces in this exhibit if you didn't get to see his work in the popular Surrealism is Alive and Well in the West show. Extreme Christian influence pervades in a very intimate and delicate rendering and very suggestive of the role religion plays in the Mexican culture. Those extremely meticu­lous multimedia-linking, finely designed images bracketed under acrylic frames with the less common (among artists as a whole) circular motif as well as circular perimeter belong to Felipe Almada.

No, I actually do not think Gallon is exploiting the body, but exploring the avenues of the interest of her new established culture. The color schemes are very much in keeping with the traditional art of this culture, but the ideas therein are far from the 20th Century ideal dominance. To catch up on some of the culture of the Mexicans you might want to read The Chil­dren of Sanchez, Five Families, or A Death in the Family. I think that a basic historical knowledge of what is going on in this culture is important to be able to appreci­ate what one might believe is a sadistic exploitation of sex and God, which in my opinion is far from what is being presented here.

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Get Away From It All

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Authors Randy Mink, Mike Schultz, Tom Grim and Ed Buyan will tell you a bit about how to get to these places and what to see. And they ought to know. Mink wrote "Asia for the Hitchhiker" and the soon-to-be-published "Mexico and South America for the Hitchhiker." Ed's the author of "Vagabonding in Europe and North Africa" and "Vagabonding in America," Tom Gramm's "Hitchhiker's Handbook" tells it all. These guys have been there and back and loved it, as we'll see from the articles. If you're thinking right now, "I haven't got the money or the time to travel," think again. The world is full of opportunities for traveling cheaply.

Riding these columns hopefully will get you into the mood for charting your own course. But one newspaper story can only take you so much; it can't begin to hit the nitzy-gritty details you need before navigating even begins.

THE CALIFORNIA TECH

by Thumper

Tijuanaart might have appeared as promising as the Art Department turned scull onhellip; but together a show in seven hours that was meant to be put together in 4 days (Note: for setting up art exhibits in the first place is never adequate). If you showed up for the opening Friday night you might never have known save for the lopided hanging paintings (that might have swayed by a tremor of some dimension) or missing tags on works of work or dates of 1972. But who ever looks beyond the drinks at an opening anyway. Quite frankly Sally Shapla got together the impossible and I think are ought to be appreci­ative of small talents to go with the "known" talents. Two names will remain in the mind most prominently, as they did the majority of the work in the show. Benigna Serrano and Danielle Gallois. Danielle Gallois, wife of Serrano, was born and brought up in France, unlike her fellow artists in this exhibit, but the influence of the Mexican culture has made a definite impact in her work. As an example, she has worked in some fine water colors and ink drawings, unique paintings and fantastic tapers which she designed and which were woven in Oaxaca. (If you know anything about tape­tries you will really appreciate the work and definition found in these, and if that girl really did all the work in Baxter last year, she's got a hell of a lot of motivation.

Men fall Behind

Benigna Serrano, the second of the two most prolific exhibit­ors, deals with exotic sculptures which are dealt with the human form and the religious symbolism. In keeping with the culture of Mexico the sculptures are dressed in almost clashes colors and the construction is kept in a hand-made appearance (highly contrasting to the last sculptor at Baxter Art Gallery, Max Finkelnburg). No attempt is made at concealing the method of construction or at refining a technique to match technical standards of the 20th century American sculptors. Guillermo Mellado has stepped out of the rendering syndrome into a much more finished technique however, still keeping the bright and vibrant color scheme of his fellows. If you look closely at these angular and highly detailed women you may find again the ever-present reli­gious overtones.

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Corporate Meeting Today

RESOLUTIONS TO BE DISCUSSED

by Mark Johnson

Organizationally ASCIT acts as a dispensing device for student dues. We approve lists of people going to Catalina; we approve lists of representatives to faculty committees; we give endorsement to clubs; we manage certain student services. The current Board of Directors would like to change that role. We would like to continue the already mentioned activities, but we would like to do more.

The proposals before us today represent that desire. We would like to see student services and student activities effectively presented to the Administration. We believe ASCIT should be an effective student lobby. Four of the resolutions today speak directly to that point.

Resolution IV represents the belief that ASCIT members should have a larger financial return on their investment.

We believe that these Resolutions are an opportunity for the student body to express their opinion on matters of significant importance.

FOR YOUR CONSIDERATION:

Following are four resolutions drawn up by the Ad Hoc Committee on the Corporation Meeting: Resolution I: INSTITUTE REQUIREMENTS

We the members of the Associated Students of the California Institute of Technology

Request that all undergraduate students taking MA 2abc and Ph 2abc to meet Institute academic requirements to be allowed to take those courses on a Pass-Fail basis.

Resolution II: PARENTAL SOLICITATION

We the members of the Associated Students of the California Institute of Technology

Are opposed to the solicitation of funds from our parents for the purpose of purchasing additional computer time.

Resolution III: OPTIMUM SIZE OF FRESHMAN CLASS

We the members of the Associated Students of the California Institute of Technology

Do not object to their parents being solicited for money, at all, when the Institute owns the PDP-10 (computer time is paid for) and in addition it is drastically underutilized. There are, however, financial considerations to be accounted for before any additional free time can be released. Lastly, some students object to their parents being solicited for any reason.

Resolution IV: ASCIT INCOME

We the members of the Associated Students of the California Institute of Technology

Request the ASCIT Board of Directors to institute a policy for income for ASCIT in addition to member dues.

Resolution V: GRADES AND TRANSCRIPTS

We the members of the GRADES and TRANSCRIPTS Committee

Believe that the transcript should be a record of a student's areas of proficiency rather than an indication of failure and success. Request that the general fund be eliminated for undergraduates to be eliminated and that no credit or notation be recorded for courses in which a student fails to meet the minimum requirement for passing.

Parental Solicitation For PDP-10

by Robert Fisher

During the course of the past year a group called the Parents' Fund has been soliciting money from our parents, ostensibly for providing each Caltech undergraduate with one additional hour of time on the PDP-10.

This drive has been headed by a parent of a Caltech student and was originally created at the request of the Academic Affairs Office. To date about $7000 has been collected, of which $2000 is intended specifically for computer time. In addition Caltech will match the parents' donations.

Several objections have been raised to this campaign. On the one hand, some students have objected to their parents being solicited for a course which they, the students, are not interested in. Secondly, there are many avenues for getting computer time above the $50 Institute allowance. This includes going through courses and departments. Thirdly, the solicitation is being made for $25 per student (20000), whereas the computing center estimated that PDP-10 time costs an average of $8.50 per hour of computer time. Lastly, one can question the necessity for soliciting money, at all, when the Institute owns the PDP-10 (computer time is paid for) and in addition it is drastically underutilized.

There are, however, financial considerations to be accounted for before any additional free time can be released. Lastly, some students object to their parents being solicited for any reason.

Basically, we have two issues at stake: the first is the problem of computer time. I do not feel that this is a critical point, rather the crucial issue is the solicitation of money in the students' names without taking student interests into account.

The following alternatives to this situation are offered for discussion: 1. No solicitation from our parents. 2. No solicitation from parents in our names. 3. Solicitation into the Caltech general fund. 4. Leave matters as they are now, i.e. the Institute decides upon projects to solicit for 5. Solicit in students' names for student projects. 6. Make a list of items of student interest and then solicit for that.

How DO You WANT YOUR GRADES?

by John Johnson

One of the major topics of discussion for the ASCIT corporation meeting today are the proposals before us today. The present A/B/C/D-F and P/F grading system. Several plans have been brought forth in the ASCIT Agenda Committee, and, after presentation here and at the faculty meeting, student opinion concerning them will be solicited so that a proposal best suited to the student body, a maximum number of students can be submitted to the Academic Policies Committee for consideration.

Resolution I: ADMISSIBILITY

The least change in the present system is to allow an F in a P/F course, or a student outright. While big changes in this situation are offered for discussion: 1. No solicitation from our parents. 2. No solicitation from parents in our names. 3. Solicitation into the Caltech general fund. 4. Leave matters as they are now, i.e. the Institute decides upon projects to solicit for 5. Solicit in students' names for student projects. 6. Make a list of items of student interest and then solicit for that.

The third plan is an unlimited choice of courses taken either P/F or A/B/C-DNC. The main advantages of dropping the grade "D" are elimination of charity grades, and raising the academic standards of the student body. Since no stigma is attached to "NC," an instructor can give it without pangs of conscience if a student cannot maintain the achievement level of "C" to remain the same as now--C to A. It may be argued that eliminating "D" cheats some students of the chance to pass, even if the grade is repeated. However, anyone here should be able to get at least a C--in most courses, and possibly repeat a course in which they can't.

As for acceptance of "NC" by the outside world, in addition to Krueger's report, there is Stanford's experience. On A/B/C-DNC and P/F since Fall of 1970, its graduating senior have apparently no more trouble in this respect than under the old system.

SUMMER JOBS IN CHEMISTRY

Seven college students will have an unusual opportunity this Summer to participate in chemical research at California State University, Los Angeles, under the auspices of the National Science Foundation.

Undergraduate students attending a community college or four-year college or university in Los Angeles area are eligible.

The seven students selected will actively participate in chemical research this Summer under the direct supervision of Cal State L.A. chemistry members. Each student will receive approximately $80 per week. Laboratory expenses encountered in the research will be covered by the NSF grant.

Dr. Costello Brown, Associate Professor of Chemistry, said that application forms from interested students must be submitted by May 15. They can be obtained by contacting the Department of Chemistry at Cal State L.A. at (213) 224-3613.

AGENDA

I. Opening Remarks
   Mark Johnson, President: 4:00 - 4:05

II. Old Business
   A. Food Service
      James Batten: 4:05 - 4:20
   B. Institute Requirements (Resolution I)
      Robert Coleman: 4:20 - 4:35

III. New Business
   A. Parental Solicitation (Resolution II)
      Robert Fisher: 4:35 - 4:50
   B. Safety and Crime
      David Drake: 4:50 - 5:00
   C. Optimum Size of Freshman Class (Resolution III)
      Bryan Jack: 5:00 - 5:15
   D. ASCIT Income (Resolution IV)
      Mark Johnson: 5:15 - 5:30
   E. Grades and Transcripts (Resolution V)
      John Land: 5:30 - 5:45

IV. New Business From the Floor
   Chaired by Mark Johnson: 5:45 - 6:00
The Sign

Continued from Page One

Parasite turned out the expansion devices, simultaneously using two mills, a drillpress, and other metal-working equipment.

Meanwhile, with occasional interruptions from campus security officers, Gloater, Black, and company were gluing the muslin face of the building, but...
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7:15-9:10 SAT.

COLOR

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Colorado program will be optional," says

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staff brings you inside

information on some of the new

Science people have several new

Quality Feedback report, which

classes this coming year (plus a

number of renumberings; see

ber.)

Director of Secondary School

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Continued from Page Four

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Griffin continues to show

in an 880-yard race. Kleinsasser's

time was the season's fastest, a

marked improvement each week

Good Old J. Black

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The CALIFORNIA Tech SPORTS
Page Ten
Thursday, May 10, 1973
It's Prereq Time

Courses! Failed Again!

by Staff

As usual at this time of the term, your friendly California Tech staff brings you inside information on some of the new courses coming your way. Pre-requisites for pre-registration this coming week.

(For general comments on traditional courses, see the Teaching Quality Feedback report, which ought to be available by September.)

The Humanities and Social Science people have several new courses that are coming up this term. Some of them are not suitable for pre-registration this coming week. (For previous issues of the Tech for information on these.) Calltech Director of Secondary School Relations Lee Brown will teach a course on education (unique at Caltech): PI 104. Educational Issues and Problems (3-0-6). The number offered for this course will be limited; but, so the format will be new, and will relate to Brown's Saturday program for students from surrounding schools. "Participation in that program will be optional," says Brown, "but we hope to get PI 104 students working with small groups of kids. There will probably be several of reports from the class on the philosophic and psychological techniques that they used to change the behavior of their kids."

Correction note: in the Register pre-registration packet, SS 11a, Social Science Principles and Problems, is erroneously listed as a 4-credit course. It will in reality be a 3-credit course.

Interdisciplinary Course

A new interdisciplinary course will be offered next year in geology and environmental science.Env 103ab (also Ge 103ab), Introduction to Processes of the Earth's Atmosphere and Hydrosphere. Emphasis will be on developing an order of magnitude understanding of the atmosphere and oceans through analysis of observations and physical reasoning. Topics covered will include the global heat balance, polar ice caps and climatic change, temperature distributions, waves and currents; cloud formation; precipitation, runoff, floods, sediment transport and deposition; geochemical cycles, instructions in charge: List (first term), Ingerman (second term).

Watchers of the recent foreign language fiasco at Tech might be interested to hear that the preregistration lists still contain three years of instruction in each language offered, the third year listed as taught by "Staff." Two sections of literature in translation, in French and German, are also listed. Whether or not these courses really exist will not be determined until September.

Three outstanding performances were registered by the California Tech relay team at the conference championships last week. The Beavers finished fifth in the meet, scoring 22 points. Oxy repeated as champions with 119 points. TheTechers were hampered by two key injuries which reduced their scoring potential and they missed Coach LaBourhis, who has been hospitalized.

The three Techers who regis-
terd for the meet were Greg Griffin, Al Kleinsasser, and Hay-
wood Robinson. Kleinsasser was suffering from a sore arch and didn't compete in the mile and Greg Hort's leg problem make it difficult for him to be effective.

A Memorandum To

Greg Griffin set another school record in the three-mile with his 14:25.6 time, good for second in the race. This was the third time this year that Griffin had broken the record. Last year he was held his best time was 15:09 and his 440 record this season he earned him the team's most improved runner award.

Griffin led for the first mile in a 4:42 time and passed the two mile mark at 9:35. He was defeated by Isaah of Redlands who won with a 14:00.5 after winning the mile in 4:11.6. Griffin continued to show marked improvement each week and will probably move up to the SCIAC district competition.

Prof's Elected

Continued from Page Four

to the behavior of astronomical bodies. He also is well known for his investigations of black holes. In his investigations of black holes, he has devoted an order of magnitude understanding of the atmosphere and waters through analysis of observations and physical reasoning. Topics covered will include the global heat balance, polar ice caps and climatic change, temperature distributions, waves and currents; cloud formation; precipitation, runoff, floods, sediment transport and deposition; geochemical cycles, instructions in charge: List (first term), Ingerman (second term).

Guido Good Old J. Black

Al Kleinsasser was placed for some strange reason in lane 14 in the 880, which resulted in his running his fastest 800 yards in an 880-yard race. Kleinsasser's time was the season's fastest, a 1:52.2. It took the Techer nearly 300 yards to gain the lead and he passed the 440 in 54.8.

Kleinsasser was sore fastest in the SCIAC district and makes him the favorite to win the district championships. This is the second year that he has been the SCIAC champion and the middle-distance star should place high in the national championships later in May. He also competed on the victorious mile relay team, running the anchor lap in 5:10.

For Lit 15 Credit

On a day when it rained heavily for almost half the meet, it was not ideal for sprinting, but Haywood Robinson ran an excellent 220. In the preliminary heats held on Friday, Robinson ran a 9.8 100-yard dash and a 21.6 220 to set a new school record.

In the finals of the 100, run during a rain storm, the best Robinson could do was 11.0 on the wet and heavy track. The judges awarded him third place to the surprise of his teammates and coaches, who felt he had a clear second. He was given the same time as Oxy's Osterholt in the race won by Whittier's Debate in 9.9.

Just Keep Writing Track

In the 220, Robinson finished in a time of 21.7, only to be edged in the last ten yards by Osterholt, who also ran a 21.7. Robinson had a fine start and led most of the race. Robinson, along with Kleinsasser, received the team's most outstanding athlete award for the season. The Techers also ran on the fifth-place 440 relay team and the mile relay.

Charles Almquist finished fifth in the 440 intermediate hurdles with a time of 56.8. Almquist also ran on the 440 and mile relay teams. Greg Hort competed in the hurdle race and also on the two relay teams. Both Almquist and Hort received awards for their outstanding marks during the year at the team's annual dinner.

The 440 relay team finished in a scoring fifth place with a 44.1 mark. The team comprised of Robinson, Hort, Steubs, and Almquist.

Barbra Shave

The Caltech weightmen scored valuable points. Brent Switzer finished fourth in the shot put with a mark of 44.2. The event was delayed 45 minutes due to rain and during competition the cup was very slick. Doug Herbert finished third in the discus with a throw of 130-9. Also competing for Tech were Brad Page, Steve Bienz, and Bob Miller.

On Sunday, Greg Griffin finished his week of running by competing in a 10,000-meter race in Lakewod. The distance was finished in a lifetime best of 30:38 to earn a handsome second-place trophy. He will compete in the next event in the district and should place high. This week several of the team will prepare for the NAIA meet by competing in the Riverside Invitational. The district meet is scheduled for two weeks at Redlands. Griffin, Kleinsasser, and Robinson should score well enough to Caltech.
Behavioral Engineering

Continued from Page One

positive thinking," students are encouraged to perform by receiving tangible, countable rewards: tokens, privileges, kind words. The 'aversive contingencies' so common today need not be used; "students today study mostly in order to avoid the consequences of not studying," in Skinner's words. Questions of who is to control behavior and for what purpose are important ones, said Dr. Thorson, but many behavioralists feel that behavior is going to be controlled somehow anyway, and it is better to do so openly and reinforcingly. Dr. Thorson ended by promising that behavioralism can turn over "power to the people -- perhaps that is what freedom and dignity are really all about.

The speaker on behalf of humanism, Dr. Floyd W. Matson, professor of American Studies at the University of Hawaii, Dr. Matson began by congratulating Dr. Thorson for being a "humanist at heart," then went on to describe the behavioralism-humanism conflict as a "schism of the soul," leading to such choices as "strategy versus conscience, technology versus humanism," depending on the observer's point of view.

Eye of the Beholder

Dr. Matson held the Watergate conspirators to be examples of men bound by the "organizational imperative," who know "no sense of limits of bound" to what they can do, the samples of the men behavioralism would produce, "technological man." Technological man demands "total solutions to vexing social problems," and is concerned only with "the efficiency of operations, their success, stability and equilibrium states, and the acquisition and preservation of power." Dr. Matson held Machiavelli to be the first applied behavioralist, and likened the Watergaters to fascists. Early behavioralism held man to be no better than a machine, contended Dr. Matson, who produced quotations from John Watson to back up his claim. Nor did the humanist feel that contemporary behavioralism was substantially different from its predecessor in underlying philosophy, even though the trappings have changed somewhat. Dr. Matson portrayed behavioralists as perturbed that "anything so refractory to eighteenth century science as man should clutter up the worldview."

This 96-page booklet tells what General Motors is doing now in the areas of pollution-control, safety and employment practices.

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THE CALIFORNIA TECH

Page Eleven

After that speech, the confer­ ences withdrew to partake of an Athenian mode of form of Mystery Meal, and returned to Baxter Hall to see a couple of films which the moderator, Dr. Whiteley, had made of interviews with his of B.F. Skinner. After these were over, the audience took part in general question- asking with the two speakers and discussions of some issues brought up by behavioralism.

The audience was disappoint­ ingly small, the audience showed a tendency to vanish as the afternoon went on. Part of this was perhaps due to lack of dynamism on the part of the speakers; in the opinion of this reporter, Dr. Thoresen, the behavioralist, was "playing it safe," while Dr. Matson seemed inclined toward attacking behavioralism at length. All the same, important issues are easily to be found within the sides of behavioralism, and it is to be hoped that the audience gained some insights and interest in the roles of behavioralism and humanism within modern society.

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Olive Walk Talk

On UNICEF

Dave Burgess, senior UNICEF (United Nations International
Children's Emergency Fund) officer will be discussing the current
UNICEF relief plans for Indo-

china in an Olive Walk Talk on

Monday, May 14. Sponsored by

the Y, Dave Burgess is

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former regional director of

UNICEF in East

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William H. Corcoran

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bution. I am wondering what the Dabney

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