



GOODMAN GO HOME — Blacker House demonstrators picket Paul Goodman's main address in Beckman auditorium. See page two.

Brown Outlines Programs; Defends Academic Liberty

Speaking for forty minutes in temperatures that drove most of his listeners into the shade, Governor Pat Brown addressed the campus Wednesday at 11 a.m. on the Athenaeum lawn. After delivering his lecture proposing the application of science and technology to solve the modern problems of California, Brown had some candid quips with which to answer questions.

The Governor put forward the suggestion that a satellite be launched above California to serve as an educational TV transmitter, and he said he had initiated studies to scientifically tackle crime, waste management, transportation, and data processing. He pictured the computerization of crime to the extent that law enforcement officers could immediately obtain suspects' police records, and judges could instantaneously check the current results of their past judgements. Brown expended a number of superlatives in praise of the academic and especially scientific, brainpower of "the great State of California."

During the question period the candidate waxed indignant over CLEAN and the recent attacks on Berkeley. "As Governor, as Chairman of the Board of Re-

gents, and as a citizen, I oppose the investigation of the University of California." Brown regarded Rafferty's condemnation ("Berkeley offers a four-year course in sex, drugs, and treason.") as the statement of a "so-called educator" and a threat to academic freedom. His visceral reaction to CLEAN was "I think it's ridiculous."

When queried about his stand on the use of Columbia River water from the Pacific Northwest for the more arid Southland, Brown returned that California has all the water it will need until the year of 2025. Later he gave

his own excellent conservation record while cutting the statement by Reagan that "A tree is a tree, how many of them do you need around to look at?"

Pressed about the Rumford Act, Brown recapitulated its recent history for the benefit of the ignorant, and then assumed a conciliatory stand. He said he had appointed a commission to study the idea of achieving open housing without the passage of compulsory legislation. "I think the people of this state can get together and solve this problem," he concluded hopefully.

Parents to Take Caltech by Storm

Approximately 200 parents, representing 110 students, will be present this Saturday, Oct. 22, for the 17th annual Caltech Parents Day. As usual, an interesting and informative program is in store for them.

In true Caltech style, the program will consist of lectures, labs, and discussions. Distinguished members of the faculty and administration will deliver the lectures in the morning at Beckman and noon in the Athenaeum. The lab, a guided tour of the campus, will be conducted after lunch. The discussion will occur after this at an afternoon reception and tea given by the Service League.

Paradise depicted

Deans Eaton, Strong, and Jones, and Professors Huttenback and Owen will orate in the morning. First, Jones will speak about Caltech's admissions principles, and then Owen, head of the Biology department, will examine the philosophy of education at Caltech, putting special emphasis on the freshmen and their environment. Huttenback will follow this with a discussion on the theory and the actuality of behind the Student Houses, paying special attention to the requirement that freshmen live on campus. Finally Strong will survey the problems that freshmen commonly experience, and give projections as to the future of

different proportions of the class.

At noon the parents will go to the Athenaeum to have lunch and hear President DuBridge speak on Caltech, present and future. The guided tour of campus will follow, in which the parents will discover the purposes of the myriad buildings clustered at the west end of campus, and across San Pasqual.

Following the guided tour will be the Service League tea. Frosh instructors will be present to dis-

(Continued on page 2)

Goodman Proposes Cures For Scientific Serfdom

by Fishbone

Severely criticizing the domination of science and technology by government and other outside interests, Paul Goodman, the YMCA's Leader of America, addressed an audience of students and faculty in Beckman Auditorium on "The Morality of Science and Technology" on October 12. Guests approached the auditorium to be awed and astounded by the sight of student pickets; appropriately, they picketed the idea of picketing.

Dehumanized progress

Dr. Goodman professed a lack of knowledge of much of science and technology; however he had enjoyed them since childhood. His first comments criticized the dehumanization of society caused by science and technology (here-with S and T); however, this should not be protested because it cannot be prevented. These thoughts Goodman gleaned from modern philosophers. The proliferation of S and T sustains itself by virtue of advances in public health and labor saving, while motives such as profiteering set it back in the minds of many.

S and T are not autonomous, and herein lay their most serious flaw. Since they are in a large degree run by economic and government forces, useful brains are often taken away from their natural inclination. This is a betrayal of Thomas Huxley and Thorstein Veblen's concept of science run by scientists. Intellectuals are thus against the way S and T has been presented, though

they are not against S and T itself.

The speaker reviewed the golden age of science: the seventeenth and eighteenth centuries. Scientists stuck together then because they were all exploring forbidden territory; they all loved their work. Today scientists form the priesthood of major orthodoxy. Furthermore, when indifferent to their work, they become mere personnel.

The history of science has shown, Goodman commented, that creativity cannot be parcelled out to a university. This appears in conflict with the National Science Foundation's idea of spending money in the hope of gaining a breakthrough. In short, the best that the arts and sciences can do is provide a healthy society that will nurture rather than stifle creativity.

Any good that has come from modern technology is for nought when obsolescence is built in, competitive brands rob the consumer, and administrators override technicians. The competition caused by huge concentrations of machinery is ridiculous.

Goodman's answer to this tremendous problem facing S and T is that the professionals should take the lead in promoting the programs and ideas they believe are worthwhile: he commented that Americans believe in professionals implicitly. Furthermore, the latter should actively criticize the programs upon which they are working. S and T must have ideas before money, not money before ideas.

House Populations Vary Over Years

by Jeff Hecht

For the first time since the building of the New Houses, there has been a significant decline in the number of students on campus first term. All the Houses except Dabney and Blacker shared in the decline, with Fleming (minus twelve) and Ruddock (minus nine) leading the way. There are now 559 people on campus, 25 less than last year, and 63 less than Dr. Huttenback's May estimate, which determined the number of freshmen assigned to the Houses. Huttenback himself saw to part of the reduction.

The loss over the summer included only two incoming freshmen, who saw the light. Fleming, Ruddock, and Lloyd all lost more than ten upperclassmen over the summer, Blacker had no net change, and Dabney lost only one.

The imbalance of the losses has resulted in Fleming, with the largest capacity of the Old Houses, having the lowest number of people on campus (71), and Blacker, with the second smallest capacity of all the Houses, having the second largest number of people on campus,

84, for a house with a capacity of 70. Fleming has 70 rooms for their 71 people. Page is once more the most populated House on campus with 90. Ruddock is larger than Lloyd and hence less crowded, although it has 83 people to Lloyd's 77.

Why, in my day...

If this year's frosh feel that their roommate's bunk sagging onto their stomach is reason for complaint, they should read the House occupation statistics for the years before the New Houses were built, a true tale of terror. Those upperclassmen who tell you that they knew people who could remember back when your nine by eleven foot double was considered reasonable were not exaggerating. For many years jamming a hundred people into Fleming and Ricketts was considered possible. In October, 1946, there were 101 people living in Dabney House, which has an intended capacity of 68.

With increasing space available, estimates of House capacity have been revised. In the summer of 1954, the capacity of the Old Houses was: Blacker—90; Dabney—82; Fleming—98; and Ricketts—96. It's no wonder

(Continued on page 2)

Y Planning Conference Outlines Fight Against Student Apathy

At Emerald Bay, a private beach near Laguna, the Caltech YMCA held its annual planning conference last Friday, October 14. In addition to sunning themselves, the participants decided that apathy was the crucial problem that the Y had to face—apathy towards both campus life and society in general.

Those hashing over the meaty problem included the Y hierarchy, Wes Hershey and Burt Houseman, some of the Y's officers, a random collection of student officials, three faculty members and even a few grad students.

Come down, come down

The problem of apathy was aptly defined by one participant (unknown to the Techstaff) who

stated that Caltech was not (is not) an ivory tower, it is a microcosm of society impelled by the same forces that mold the larger reality.

Other parts of the discussion centered on possible committees to utilize a hypothetical thousand-dollar grant from the Y. Suggestions included: more "sensitivity training" programs; fighting apathy by bringing controversial issues to the campus; an "outsider-in-residence" to represent the nonbourgeois elements of society (for example, an "Our man from Watts"); a student-faculty expedition to study the impact of science on a non-Western culture, such as Japan; and a study of the relevance of Student House life (proposed by Dr. Humphrey).

Remember the following
IMPORTANT INFORMATION
about next week's
Anniversary:

1. Tickets to CHAD And JEREMY were released to the public yesterday. Get yours before it's too late.
2. The Twilight Buffet on Wednesday, Oct. 26, features strolling strings, a delicious meal, and magnificent atmosphere. Ticket sales close Monday, Oct. 24.
3. The official Convocation at 2:15 PM Monday afternoon on the Beckman Mall is open to all students; no tickets are needed.

Editorial

A Word From the Bottom

To the parents of the students and to the guests of the Institute who will be visiting the campus in the following days, the **Tech** bids you a hearty welcome.

You will all undoubtedly be impressed by some part of Caltech, the dwelling place of a first-rate scientific community. Hardly anyone can escape without admiring some of the people he may either hear in some lecture hall or talk to informally.

The Institute's fame has spread a long way over the past years; but such fame comes only when people, like the ones you will now find in abundance here, contribute their time and talents toward the advancement of the school. Caltech without its constituent population would no longer be the same. Moreover, another Institute could not easily rise, as did the phoenix, from the ashes of an intellectual wasteland.

As the traditional "fire-hydrant of the underdog", the **Tech's** policy is to support a special segment of the populace here, the pariahs of our modern educational system, the economic zeros of the bourgeois swamp, the fair-haired trolls of super-science: the **undergraduates**.

It is only the undergraduate who must **pay** (sob!) for his instruction here (as their parents know only too well), whereas graduate students either get a free ride or are actually heavily **subsidized**. (gasp!) The undergrad has nothing to offer the Institute except his partially-trained mind. To compensate for these crippling disadvantages the **Tech** and other instruments of literary communication are doing all we can to remedy the situation. **Hierarchy Beware!**

—Nohj Mxrdlysktch
Michele Meollia

Alumni Get Awards

Among the many facets of the 75th Convocation, several distinguished service awards will be presented. This is an innovation, since no awards of this type have been presented before, and Caltech does not give honorary degrees. The awards will be presented at the Anniversary Dinner at the Huntington-Sheraton Hotel on Tuesday, Oct. 25, to 23 alumni.

The men to be honored represent many fields. Lt. Col. Frank Borman, an astronaut who, with his co-pilot James Lovell, flew Gemini 7 on the longest orbital flight to date, and Frank Capra, an Academy Award winning director and producer who "demonstrates that a Caltech education is not a fatal handicap to a distinguished career in the arts, are but two of the men to be honored.

21 men

Other men to be honored are: Dr. James Boyd, president of the Copper Range Co.; Dr. Joseph V. Charyk, president of the Com-

munications Satellite Corp.; Dr. Richard G. Folsom, president of Rensselaer Polytechnic Institute; Dr. Edwin M. McMillan, co-discoverer of the elements Neptunium and Plutonium; Dr. Ruben F. Mettler, president of Thompson-Ramo-Wooldridge Systems and noted as a designer and developer of tactical air defense systems; Dr. W. K. H. Panofsky, director of the Stanford Linear Accelerator Center; Dr. William Shockley, Nobel laureate in physics, for his work in the development of the transistor; and Dr. Charles H. Townes, Nobel laureate in physics, for his development of the MASER principle.

The Monday program will be held at Beckman Mall instead of at Tournament Park, a change probably due to the fact that President Johnson will not be here. Exhibits depicting the research going on at Caltech will be arranged in the lounge and courtyard of Dabney Hall. Various other exciting things will happen, but all is included in the soon-to-be-published schedule.

Discriminating Students Flee Houses

(Continued from page 1)
that ten by eight foot rooms have been used as doubles.

Yet, for all the overcrowding, there was a waiting list of students trying to get into the Houses. That was not a mere matter of insanity, it was motivated by the rents the people of Pasadena were charging off-campus students plus the desire for the companionship of the Houses. The rent situation has changed now, and since the New Houses were built there has been no overflow of students able to live on campus. This forced the little old ladies to lower the rents if they wanted to collect any at all. Those who wanted to live in the Houses for more than economic reasons were then freed of those who couldn't afford to go elsewhere.

The lemming instinct

The statistics for the years since the New Houses were built is a better indication of the migration trends off-campus. The most obvious trend is that mysterious migration of third term

seniors to lands untouched by Saga food and the woman rule. The most complete abandonment of a House was suffered by Dabney last year, with one solitary senior on campus third term. In years gone by, both Lloyd and Fleming have been left with two seniors on campus. For the last three years Fleming has sent from eight to eleven seniors into the dens of iniquity of the world for third term.

Last year the change from first to third term on campus was spectacular in some Houses. Ruddock lost twenty-one, Dabney lost twenty people (plus four rooms to overcrowded Blacker), Fleming lost eighteen, Lloyd twelve, Page eleven, Blacker ten, and Ricketts a measly five, leaving frosh in bunk doubles third term. In Ruddock there were sophomore singles, and in Fleming there were empty rooms. In other years there have been changes as small as two in some Houses, which quite effectively eliminates the great institution of room drawing.

Intelligence Report

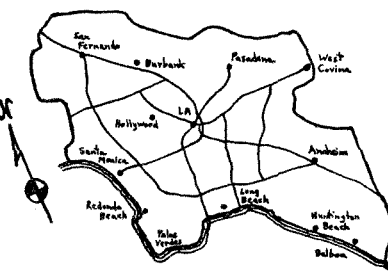
by

Fehder and Jacobs

This week's junket takes us to the Huntington Beach area where the main attraction is the Golden Bear, an establishment featuring fine jazz and popular music groups. We enter the town from the south-east on the Pacific Coast Highway, after taking the San Diego Freeway to its southern terminus at Beach Blvd., and then Beach Blvd. south to the Coast Highway. The "Bear" is on the right, just across the street from the Carnaby Street "barn" (a noisy rock-and-roll emporium for the younger surfing crowd).

The Bear market

On Friday and Saturday evenings the Bear offers three sets: 8:30, 10:30, and 12:30. It is a good idea to make reservations in advance — especially when such big names as Glenn Yarbrough or the Paul Butterfield Blues Band are performing. The cover charge varies from \$2.00 to \$2.50 — depending upon the starring group's fame — and there is a one-drink minimum. Prices for drinks are reasonable (about 70c



per, for both alcoholic and non-alcoholic beverages), and I.D.'s are checked by the waitress. The present seating arrangement is quite "cozy" (we almost said cubic-closest-packed), and the waitresses are not the world's most efficient — but the enthusiasm of both the performers and the audience easily makes up for these shortcomings. The earlier sets are the wildest, with the crowd thinning out and maturing as the 12:30 show approaches. Of (possible) note are the aphorisms so neatly painted on the walls of the "heads" by the management.

Shooting the Bull

It is worthwhile to arrive in the area quite early — to provide time for a quick trip up the Coast Highway to the El Toro Restaurant (affectionately known as "Rosa's Cantina") in Sunset Beach. It's on the left side of the highway next to a Shell service station, about five miles north of the Bear. The specialty of the house is their Margarita cocktail, at 75c. An assortment of Mexican dishes is also available, if you haven't had time to eat before leaving Pasadena.

Addenda: Due to a lapse of memory, we neglected to mention (Continued on page 3)

Notices

RAY BRADBURY TONIGHT will speak at the 32nd Anniversary Meeting of the Los Angeles Science Fantasy Society at Silverlake Playground, Silverlake Blvd. and Van Pelt St. in Los Angeles, tonight at 8 p.m. Guests are welcome. See Fred Hollander, 112 Lloyd.

THE PHYSICS CLUB

meets at 7:45 tonight at Dr. Barnes' home, 1546 Rose Villa. Dr. Wagoner will speak on "Cosmological Element Production." All interested persons are welcome. **TOTEM IS BACK,** and if you want to join the staff, freshmen, see Steve Alfin, (127 Ruddock).

TUTORING

Alvin Larsuel, Associate Director of the Westside Study Center, has been visiting the Student Houses this week to describe the Tutor Project being held in Pasadena. Anyone interested should contact Mike Garet in Blacker or the Caltech YMCA.

California Tech

Published weekly during the school year except during holidays and exams by the Associated Students of the California Institute of Technology.

Editors: John Middleditch and Mike Meo, Editors-in-chief; "Crash" McCord, Managing; William Fleissner, Copy; Bob Firestone, Sports.

Staff: Kirk Benson, Steve Boone, Bill Boyd, James Cook, Len Doberne, Bill Fleissner, Jeff Hecht, Steven Kraus, Dave Lewin, John Osborne, Steve Savas, Steven Smith, Tim Hendrickson, Roger Goodman, Jules Kline.

Business: Bob Berry, Manager; Circulation Managers, Ed Kelm, Mike Pollock

California Tech, Publication Offices: 1201 E. California Blvd., Pasadena California, 91109. Second-class postage paid at Pasadena, California. Represented nationally by National Educational Advertising Services, Inc. Subscriptions: \$1.50 per term, \$4.00 per year. Life subscription: \$100.00. Printed by Bickley Printing Co., 25 South Fair Oaks Ave., Pasadena, Calif. Volume LVIII, Number 5, Thursday, October 20, 1966.

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SNAP Pickets Goodman Talk

by Bone

Incensed by Paul Goodman's inflammatory remarks about scientists, the men of Blacker last week cast aside their customary cloak of apathy to emerge as natively attired, suave and handsome members of Student Non-Active Protestors.

SNAP, as those in the know call it, is a student protest organization to protest student protests. The Blacker boys formed it in response to Goodman's complaint that Caltech students are not "socially involved," spend too much time learning facts in which they are not really interested, and not enough time protesting.

About 40 Teckers picketed Goodman's major address in Beckman Wednesday night. SNAP Spokesman Lee Johnson commented that he asked all demonstrators to wear coats and ties to point up the difference between Caltech protestors and those at places like Berkeley.

The pickets carried signs bearing such witticisms as "Discourage Extracurricular Involvement," "Make Love, Not Protests," "Free Speech Now!! — Darn," and "An Ounce of Thought is Worth a Pound of Protest." The movement's official slogan is "He Doth Protest Too Much, Methinks"—Hamlet, Act. III.

In his address, Goodman told the pseudo-demonstrators, "The last time I was picketed was two years ago at the University of New Hampshire—now take that to heart."

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Parents get hot air

(Continued from page 1)

cuss the various classes with the parents. Parents will also be encouraged to meet and talk with other freshman parents.

The purpose of the annual parent's day is to give parents of the freshmen information about, and a feeling for Caltech. It is customary for colleges to have parent's days, but in most cases they are specifically designed to entertain rather than to inform.

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There are no church classes on the 23rd. Children who come to church with their parents may leave the sanctuary during the first hymn (shortly before the sermon) if they and/or their parents desire. Provision will be made for them in Henry House (church school building adjacent) or upstairs in the church building. Child care for preschool ages throughout the entire service.

The Critical Ear

by Barkus

Leonard Pennario, one of the most popular and gifted of classical pianists, gave an outstanding performance of a varied program last Saturday night for an enthusiastic standing-room-only audience in Beckman Auditorium.

The distinguished-looking Pennario began his program with Beethoven's Sonata No. 7 in e minor; and under his artistic touch this little known sonata, an expressive and melodic piece, drew the attention of the audience. The resounding chords of the Allegro beginning of Schumann's "Mardi Gras in Vienna" marked a sharp contrast to the rhapsodic mood of the first composition. Performing the allegro and andante parts of this colorful piece with equal ease and feeling, Pennario clearly brought out the impressions which Schumann had intended to convey.

The first half of the program concluded with a Sonata by Alberto Ginastera, written in 1952, which proved to be one of the highlights of the concert. Pennario's rendition of this composition (one in which the pianist has ample opportunity to display his varied technical prowess) was flawless. From the stirring chords and runs of the first movement, to the delicate and ever-moving arpeggios of the second movement and from the moving and quiet third movement, to the striking and rapid

finale, he displayed not only technical brilliance but also a keen awareness of the nuances in the shadings and moods involved.

The second half of the recital seemed to promise a letdown after the Ginastera; but Pennario was undaunted and forced a successful climax in spite of this. Six Preludes by Debussy, studies in different techniques and styles of musical expression, which Pennario seemed to perform effortlessly, were prefatory to the finale, the "Scherzo No. 2 in b-flat minor" by Frederic Chopin. The evening's presentation was concluded by three encores: "Sonata in e minor" by Scarlatti, a melodic study in polyphonics; "Pulchinelia" by Rachmaninoff, another exciting showpiece for the pianist's skill; and Traumerei by Schumann, a quiet and dream-like ending to an outstanding evening of piano music.

Intelligence Report

(Continued from page 2)

tion one of the best features of the Warehouse IX in our article two weeks ago. An outdoor patio, with blazing fire pit, bar, and restful guitar music has recently been added for the enjoyment of those wishing to actually talk to the girls they meet there during the periodic lulls in the otherwise deafening music. (We are also informed that the age limit may have recently been raised to 21 for fellows. Stand by for confirmation.)

Mozingo Tells Viet Plans

"I think in the Cuban Missile Crisis the real outcome was to create the impression in the minds of Kennedy and his advisors that we have finally come eyeball to eyeball with the Communists, and that it was finally time to stop these wars of liberation." Thus spake David Mozingo in Tuesday's H5 lecture. Mozingo is a specialist in South-

east Asian affairs for the Rand Corporation, and a poli sci lecturer for Caltech.

The Missile Crisis was a turning point in our policy towards Vietnam. Before this, at the signing of the first foreign aid bill to Vietnam, "President Eisenhower made it clear that we were very ready to provide economic and financial aid with the

condition that certain social and political reforms were made." However, as the condition of Vietnam deteriorated, the rate of reform fell. Under Diem, "any criticism was subversion", and the Buddhists became isolated.

Yorty has hard time

Once we had decided that we would stop the Communists, we sent advisors to set up the strategic hamlet program. Because even the large hamlets were not a safe from a well-planned attack by the VC and also the lack of competent civil leaders, the hamlet program failed. "If in Los Angeles County some organization were able to liquidate 16,000 civil servants even Mayor Yorty might have a harder time," quipped Mozingo. Diem had no means of local leadership. His best forces were quickly being wiped out by the VC in ambushes.

Starting in 1959 on a small scale and building up, there has been infiltration from the north. There are now approximately 45,000 North Vietnamese men in South Vietnam.

(Continued on page 5)

Land Packs House; Analyzes Color Vision

Dr. Edmund H. Land, developer of mass-produced polaroid materials and inventor of the Polaroid Land Camera, gave the second of Caltech's series of lectures Monday night in Beckman Auditorium.

Land delivered his lecture concerning recent experiments on the nature of color vision to a capacity audience. The effectiveness of the presentation was enhanced by a continuous series of visual demonstrations concerning the audience's own color perception.

LSD art

The opening slide was a color still life of food, produced not by the conventional overlapping of three basic color photographs, but by the overlapping of two photographs: a normal black-and-white picture and the same picture taken through a red filter. The reason for this phenomenon was the subject of the rest of the lecture.

An early idea about the nature of color was that it is relative to the amounts of light reaching the eye in each of three wavelength zones. This theory was disproved by the use of a spot photometer, and instead, the idea was advanced that color is based on the relative lightness, from darkest black to lightest white, of the colored areas in each wavelength zone. A green area, for instance, appears light in the middle portion of the spectrum, and dark in the red regions.

Retinex-kaex-kaex

Backed by scientific discoveries, Land revealed that there are three areas in the nerve cortex for each eye called "retinexes," one for each of the three spectrum ranges. Each retinex sets up a scale of lightness for every perceivable object, and the correlation among the three produces color sensation. The initial picture of the lecture revealed that only two coordinating retinexes are necessary for color vision.

The retinexes for each individual eye distinguish color, while the retinexes coordinate between eyes to distinguish form and establish perspective. These conclusions were further backed by demonstrations revealing the effect of boundaries between areas of different lightness, and their relation to color vision.

Those planning to attend future lectures should arrive early, for if one delays as did this reporter, he will find himself standing in the aisle.

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Water Polo Victorious, Otherwise...

The varsity water polo team won its first contest of the year last week by beating the UC Riverside team 8-5 in overtime. The regulation play ended in a 4-4 tie.

Norm Whitely scored half of Caltech's goals, Rick Touton scored two, and Jon Haviland and Larry Hunt each scored one.

Last Saturday, however, was a different story. Losing three in a row the team placed a closely contested last at a water polo tournament at Claremont.

The first morning game caught the swimmers asleep when they lost to the fast, hard-shooting Cal Poly squad 20-2. Cal Poly went on to win the tournament. An hour later and a little more on the ball, the Techmen met Oxy with hopes of victory. They lost a close 7-5 decision.

The afternoon found Caltech pitted against San Fernando Valley State. The rapid-fire scoring of Mike Bell and a hard pressing defense held the score to 8-5 with 90 seconds to go in the fourth quarter. Using Webb Emery's super-special-come-from-behind play the score was raised to a much more favorable tie at 8-8 as the time ran out. Unfortunately, a Valley State bomb found its way into the Caltech

TECH Sports

cage in the sudden-death overtime.

High scorer for the day was Henry Dewitt, with a couple of goals in each game.

In the meantime the varsity football squad scored 13 points less against Pomona than the week before, but the opposition scored 26 points less, so it was a moral victory for the Beavers. This makes Caltech 3-0 in moral victories. However it is 0-3 in actual contests, the Smog eaters having lost to Pomona at the Rose Bowl, 42-0.

Pomona scored quickly and often in the early part of the game. By half-time the score was 35-0. Pomona was held scoreless in the third quarter and only scored once in the fourth quarter. This was the first time this year that the Beavers held a team scoreless for a complete

quarter.

No one looked particularly outstanding for Caltech. Martin was double- and even triple-teamed by the Pomona defense and this hurt him considerably. Frazzini

had his first punt blocked and his last one went only about 30 yards. This could seriously damage his national standing.

John was also tried at end for a while with no evident success. Fullback Ray Kawal ran back one kick-off for 62 yards and made another good sweep around end for 20 yards.

This week, the team takes a break from the conference schedule to play Cal Lutheran. Cal Lutheran's main claim to fame this year is having beaten CHM 54-0 and also having one of the physically strongest teams in southern California.

Running around the field instead of through it, the Redlands cross-country team ran away with the meet last week as the Bulldogs dumped Caltech 15-46. The Redlands frosh were also victorious 17-38.

Redlands took the first five places in the varsity three-mile run with sophomores Shawver and Newmyer finishing one-two. For the Beavers, Lane Mason finished sixth with a time of 15:59; Pete Cross was seventh with 16:00; Van Stoecker was tenth with 16:54 and Mike Meo came in next with 16:59. The first place finish had a time of

(Continued on page 6)

FOREIGN SERVICE

careers

Mr. George Barraclough, Foreign Service Officer, will be on campus October 20 to discuss career opportunities.

A film, "In Search of Peace," will be shown.

See your Placement Advisor for details.

Runner-up College Contest!

Congratulations to Jill Rautenberg, SFVSC Junior

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CAMPUS INTERVIEWS
OCTOBER 26



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Ricketts Sweeps Softball

Wednesday's action in Inter-house Softball featured Ricketts versus Lloyd and Fleming versus Ruddock. Though Ricketts beat Lloyd 8 to 1, on the pitching of Ed Rehbein, the game was pretty tight until the late innings. Fleming beat Ruddock in a relatively easy game 8 to 3, Bradley and Wolfe turning in

outstanding performances for Fleming. Thursday saw Page take a squeaker from Blacker 12 to 9, and Dabney hand Fleming its first defeat 12 to 10. In the Dabney game, the Darbs trailed 8 to 2 in the fourth, but scored ten times to unseat the Flemes.

easy 1 to 3 victory over Blacker, Tuesday, while Lloyd beat the Darbs 2 to 1 in the last of the 5th, on a clutch hit by Richard Crandall (the hairless one).

It would seem apparent that Ricketts will be triumphant in the end. As of Tuesday, Ricketts needs only win one of two remaining games to assure a tie for first place. Page, which is in second place, must win its game with Fleming Wednesday, and hope that either Ruddock or Dabney can upset Ricketts.

Team	STANDINGS	
	wins	losses
Ricketts	4	0
Page	4	1
Fleming	3	2
Blacker	2	2
Dabney	1	3
Ruddock	1	3
Lloyd	1	4

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One sentence per game
Friday saw Page and Ricketts, the only undefeated teams, remain unblemished by routing respectively Fleming and Lloyd. Tony Gharrett, Ricketts president, drove in four runs to lead his team to a 9 to 3 victory. Page beat Lloyd 11 to 7 in a high-scoring game. Monday's action saw Ricketts take over first place from Page in a hard-fought game. Big Ed Rehbein starred for Ricketts pitching a fine game and hitting a three-run homer. Fleming had an

Mehr Mozingo

(Continued from page 3)

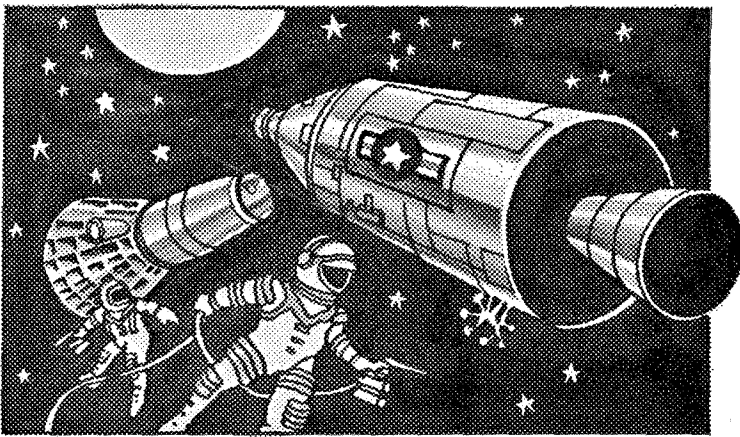
The American strategy has been five-fold: first, save the South Vietnamese army. Without it, the government would quickly collapse. Secondly, destroy the large masses of Vietcong troops with our air force units, in order to reduce the war to the size it was when the strategic hamlet program was tried. Thirdly, provide a shield behind which pacification efforts could be held (there were some successful hamlets) and garrison the hamlets so that they could hold off any attacks. Fourthly, convince Hanoi the war is not worth it, and finally, deter the Russians and Chinese from entering into the conflict farther than they are.

The true clue!

"These are the real reasons why I think our government feels it must be in Vietnam and explain the insufficient explanations by our government: it is absolutely imperative to stop the wars of liberation regardless of their cause (civil wars or otherwise), and the United States must shoulder the burden of nation-building in the third world".

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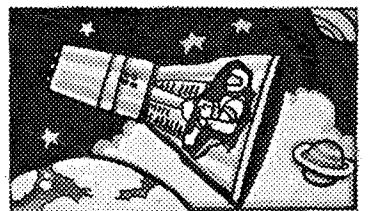
Here are 7 knotty problems facing the Air Force: can you help us solve one?



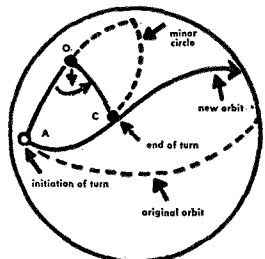
1. Repairs in space. If something goes wrong with a vehicle in orbit, how can it be fixed? Answers must be found, if large-scale space operations are to become a reality. For this and other assignments Air Force scientists and engineers will be called on to answer in the next few years, we need the best brains available.

2. Lunar landing. The exact composition of the lunar surface, as well as structural and propulsion characteristics of the space vehicle, enter into this problem. Important study remains to be done—and, as an Air Force officer, you could be the one to do it!

3. Life-support biology. The filling of metabolic needs over very extended periods of time in space is one of the most fascinating subjects that Air Force scientists are investigating. The results promise to have vital ramifications for our life on earth, as well as in outer space.



4. Space orientation. The orbital problems of a spacecraft, including its ability to maneuver over selected points on the earth, are of vital importance to the military utilization of space. There are plenty of assignments for young Air Force physicists in this area.



5. Synergetic plane changing. The ability of a spacecraft to change altitude can also be crucial to space operations. Where but in the Air Force could Sc.B.'s get the chance to work on such fascinating projects right at the start of their careers?

6. Space propulsion. As our space flights cover greater and greater distances, propulsion—more than anything else—will become the limiting factor. New fuels and new propulsion techniques must be found, if we are to keep on exploring the mysteries of space. And it may well be an Air Force scientist on his first assignment who makes the big breakthrough!

7. Pilot performance. Important tests must still be made to determine how the pilots of manned aerospacecraft will react to long periods away from the earth. Of course not every new Air Force officer becomes involved in research and development right away. But where the most exciting advances are taking place, young Air Force scientists, administrators, pilots, and engineers are on the scene.

A good way to start is through Air Force ROTC. Superior students may qualify for Air Force scholarships. Many colleges and universities also have a special 2-year Air Force ROTC program. For details, contact your nearest Air Force representative, or mail the coupon today.

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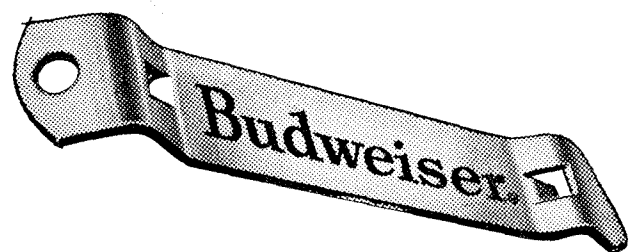
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Cross Country, Soccer Downed Too

(Continued from page 4)
 15:34.6. These were the best times that either Cross or Stoecker had ever turned in.
 In the frosh race 2 miles), Fling finished first in 10:41. For Caltech Steve Johnson came in

fourth at 11:01 and Dave Heimeyer was seventh in 11:29.
 This Saturday the Smogeaters travel to CHM where the scores should be at least a little closer.

Last, but not least, the Caltech varsity soccer team dropped two games during the past week, feeling the loss of all-star center-half Walt Innes. In a non-league game last Wednesday they lost to Cal Poly (Pomona) 3-1. Once again lack of proper

organization did the Beavers in. Traveling to Santa Barbara on Saturday, the team once again fell victim to its own mistakes as they lost to UCSB 4-0.
 The next game will be this Saturday at 11:00 am at Tournament Park against Westmont.

Oh it's 'Tommy' this, and 'Tommy' that And 'Chuck 'im out, the brute!' But it's 'Savior of 'is country,' When the guns begin to shoot.

—Rudyard Kipling.

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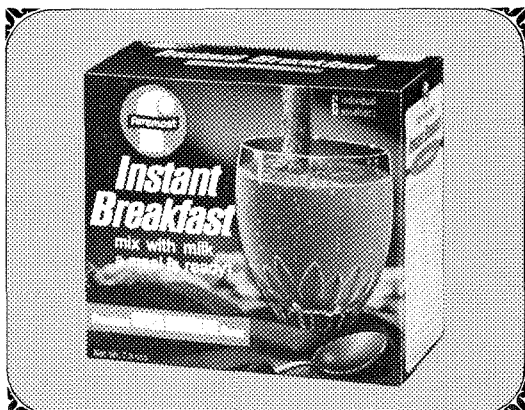


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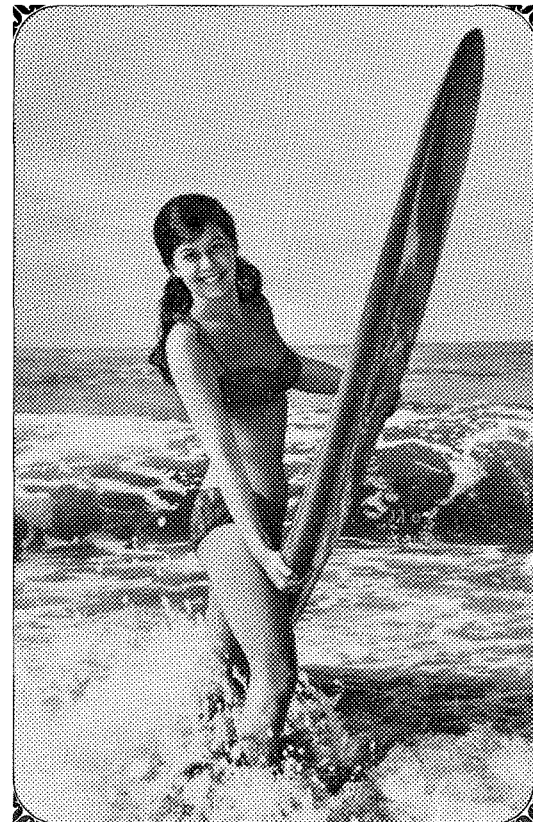
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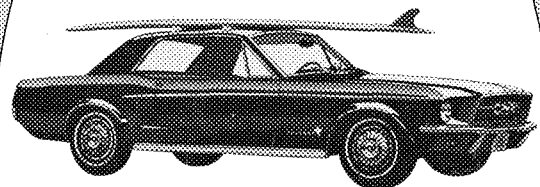
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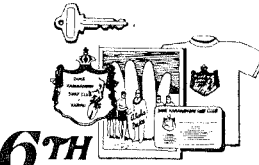
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