

2 Dinner Plates
2 Saucers
2 Cups
4 Knives & Forks
1 Soup Spoon

California Tech

\$4.58

Associated Students of the California Institute of Technology

Volume LXIX.

Pasadena, California, Thursday, October 19, 1967

Number 5



—Photo by Waugh

State Assemblyman Leon Ralph decries abuse of the Negro in his Olive Walk Talk last Monday.

Ralph Asks Honest Race Relations

"If America does not become honest, then we are headed for one of the bloodiest eras of its history." This prediction by the Honorable Leon Ralph, California State Assemblyman, was made during his Olive Walk talk Monday afternoon.

Mr. Ralph continued this line by proclaiming, "The black man has had enough!" Describing the abuse, both physical and mental, that the black men encounters in America, Mr. Ralph cited a number of personally witnessed incidences. This ranged, on the physical side, from actual bludgeoning of mere suspects by the police to the more subtle forms

of permitting black men to suffer without intervening.

This "second class treatment" is, according to Mr. Ralph, one of the major causes of revolution in the cities. This treatment extends to affluence that White America enjoys. "How," said Mr. Ralph, "can white America expect complacency when white tables are full and black tables are barely there?" Mr. Ralph pointed out the connection between shortness of life for black people and the shortness of food for the people.

Psychological abuse on the part of the police departments takes the form of speaking derogatively of a man. "Calling a man 'Nigger' is a form of brutality. It is something that no man can take for any length of time."

To give a better view of the black man's frustration in getting a job, Mr. Ralph likened it to someone from the Caltech community looking for a job. If the Caltech graduate could not find a job because he is white he would be just as if not more angered than the Negro.

Added frustration comes when demands are made on a city administration and are not met. Under these circumstances the city leaders can expect more and bigger violence.

Attacking the token integration of many businesses, Mr. Ralph demanded equal treatment not just in admission, which is so often on a quota basis and should be on merits, but to include broader promo-

(Continued on page 3)

Faculty Regrets Choice of Reagan

by Les Fishbone

In a carefully worded letter to Dr. Arnold O. Beckman, Chairman of the Caltech Board of Trustees, approximately 150 members of the Caltech faculty expressed their disapproval of the invitation of California Governor Ronald Reagan to give the keynote address at the dinner

kicking off Caltech's 85-million-dollar fund drive. The dinner is scheduled for a downtown Los Angeles hotel in November.

Information concerning the letter has been difficult to find. None of the signers were willing to divulge the exact contents of the letter; some even refused to acknowledge its existence. Nevertheless, several things about it are known.

Teckers Hear of Ghetto

by John Healy

The YMCA ghetto-tutor program, through personal contact, has given a new dimension and magnitude to the racial situation. The far-off, vicarious perspective has been replaced by an awareness of the depth and seriousness of a movement. The articulate, well-educated and well-chosen tutors evidence the scope of opinions present in the Negro community. No longer can the crisis be contained in "Civil Rights," for attitudes are not homogeneous. The young Negro seeks results now. He may be frustrated and apprehensive about his future and in some cases has nothing to lose. Organization has given the Negro a new pride and sense of direction. Violence, a constant threat, is the result of much talk and little action. Both sides have heard first-hand a variety of views and found that Whites and Blacks may act savagely.

Response in the Student Houses is indicated by bull sessions. While the forceful speakers draw attention in group discussions, the more conservative speakers present their views well in individual conversation. People are getting involved, and the indifference in some has hopeful-

(Continued on page 3)

The letter was very mild in tone, and called for no direct action. The signers stated that they are members of the same community of scholars as those of the University of California. They regretted the choice of Governor Reagan because some of the positions he has taken have been detrimental to the spirit of intellectual inquiry. Nevertheless, the signers realized, the members of the Board of Trustees have the

right to invite whomever they please to functions of the nature of the dinner.

The substantive appeal made by the signing faculty members was that the faculty as a whole be consulted on such issues in the future.

Dr. Robert Huttenback, Professor of History and Master of Student Houses, appears to have been the originator of the epistle. After collecting as many signatures as possible from faculty members, Huttenback mailed the letter to Dr. Beckman on Friday, October 13.

In a phone conversation on Monday, Dr. Beckman confirmed that he had received a communication from some members of the Caltech faculty. He refused to comment on it, stating that it was a private affair and not meant for outsiders.

EPC Results: Tech Wants Coed Campus

The votes are in on the E P C Attitudes Questionnaire, and the Caltech students are definitely in favor of co-eds at Caltech. In a poll distributed to the undergraduates, the Educational Policies Committee questioned the students on other topics including the proposed General Studies option and a pre-final study period. The questions were answered by 47 percent of the students polled, a sample which Robert Eneinstein, chairman of E P C, believed to be representative of the Caltech undergraduates.

While 79 percent of the voters wanted Caltech to admit women, 93 percent of the juniors were in favor of such action (the other three classes falling into the 75 to 80 percent range). No explanation was given for the juniors' overwhelming enthusiasm.

Two-thirds of the students were in favor of a pre-final read-

ing period. All classes would be cancelled one week before finals, with T.A.'s and professors available for consultation. The same number were also in favor of a General Studies option. This option would allow students to pursue an interdisciplinary course of studies.

Two of the questions referred to the possibility of students taking courses at nearby schools. Such courses of study do exist at the present time, so it is gratifying that 81 percent in favor of creating such courses. 41 percent also stated that they would like to take such courses.

The final questions suggested a series of optional monthly dinner seminars to allow students to meet professors and discuss problems. 78 percent of the undergrads were willing to attend such meetings.

Notices

HARVARD BUSINESS SCHOOL

Tony Athos, director of admissions at Harvard Business School, will be interviewing Teckers on Wed., October 25, at 1:15 p.m. in 206 Dabney. Students interested in seeing Mr. Athos should leave their names with Mrs. Mathews in the Caltech Placement Office.

LIKE GIRLS?

Girls from Pomona, Scripps, and Pitzer folk dance Sundays 8-11 p.m. in Pomona. They want partners! On campus contact E. Feustel, 39 Steele for transportation information.

BIG T'S ARE AVAILABLE

See Seguine, Rm. 118 Ruddock.

BIG T WANTS YOU

Anyone wishing to work on the yearbook stop by the office in Winnett Thursday or Friday night 7:00 to 10:00. Photographers especially.

(Continued on page 3)



—Photo by Waugh

Ghetto residents from Pasadena confront Student House members as part of YMCA's program — "The Ghetto and the City: Blight and Promise."

Editorial

Owen Committee Proposals Will Improve Caltech

About three years ago, the present senior class found itself studying without the burden of grades. For many the experience was enriching; for others, the loss of grades removed the motive force which had caused these individuals to excel while in high school. Interest had become the sole motivating force for doing work. This is as it should be.

Since then an increasing amount of effort has gone into making Caltech a more pleasant place to learn. Dr. Richard Dean teaches abstract algebra in a seminar atmosphere and Dr. James Bonner continues to advocate research for all. But surely the most significant efforts toward improving Caltech have come from Dr. Ray Owen's Committee on the Freshman Year.

The committee is composed largely of those who teach freshmen. The members of the committee have met with students repeatedly and are well in touch with the problems that plague Teckers. In an effort to solve many of the problems that face us, the committee recently presented three substantive proposals to the Faculty Board: 1) the establishment of a general studies option; 2) a much more flexible program of study for freshmen; and 3) the admission of women as undergraduates.

A general studies option would satisfy those students who last year suggested the elimination of all option requirements, for it would permit them to obtain a background in either the sciences, engineering, or the humanities; it would permit them to experiment widely in changing major fields of interest; and it would require them to take only a minimal number of stipulated courses.

A more flexible program for freshmen is desirable for many of the same reasons that a general studies option is desirable. Moreover, it would enable the freshman to pursue special interests at an earlier stage, to do more and better research while meeting professors, and to spend a little time thinking rather than all their time running a rat race. The redundancy of learning lab technique in two different laboratories while gaining little in knowledge would also be eliminated.

The admission of women as undergraduates, even if these women confined their studies to the general studies option (although of course there exists no reason why they should), would bring a semblance of reality to Caltech. Women have a point of view, they have interests that differ from those of 650 homogeneous Teckers, and, for those who have not noticed, they are lots more fun than a bridge game. In the real world men and women live together, work together, and play together. And before you lose sight of this fact, remember that scientists are primarily interested in explaining the world about us.

The Owen Committee proposals must be passed. It behooves every Tecker to talk to faculty members and convince them of the merit of the proposals.

—Les Fishbone

Winnett Facilities Deserve Better Planning

For the past month or so, you may have noticed the organ sitting in the Winnett lounge; placed upon the instrument is a neatly typed card with the admonition that it is not to be played until installation is complete. And, as this month has proceeded, the stage of installation has remained entirely static. It is hard to think of anything quite so useless as a disconnected organ, and, were it to be connected now with unique B&G alacrity, it is hard to imagine what use it would then be put to.

At the present time, the lounge contains within its limited expanse a color television set, a stereo player and tuner, a grand piano (now out of tune), and the aforementioned organ. The operation of any of these entertainments interferes with the simultaneous use of any of the others. Since the television is by far the most widely employed device, many people anxious to play or listen defer to the wishes of the television audience. Woe unto him who interrupts the Star Trek or Huntley-Brinkley crowds.

All these things point out graphically the inadequacy of the present arrangement. Obviously, a separate room should be available, either as a television room insulated from the outside, or as a music room for the practice of the piano or the organ. A possibility for such a room is the Fleming gameroom, which is practically unused. Until Dabney Hall came to be locked up at night, the piano in the lounge was available for evening enjoyment, but this room is seemingly no longer generally available.

We would urge Dr. Pitzer and others most directly involved to look into this problem before the organ is belatedly and irrevocably affixed in the Winnett Lounge.

—Kirk Benson

Letters

Slot Machine

Editors:

The persistent habit of the company in charge of the vending machines in Winnett to ignore most of the requests for refund of cash lost in its machines is annoying and insulting.

Perhaps the Institute might remind this company of its contract obligations, and of good manners, too.

Michael A. Caloyannides

Navel Speaks

Editors:

In response to Alan Coles's letter of October 12, I agree it is deplorable, this blight in our cities that pits the black population against the white. Furthermore, I agree that there is a probability for the eventual breakdown of our American law and order. In fact, the danger is so imminent that it must be brought to the immediate attention of every Caltech student. Toward this end the YMCA has launched its massive program: "The Ghetto and the City; Blight and Promise."

However, I seriously object to his insinuation that the YMCA is disgracing itself and the Caltech community by giving a podium to certain Black Power advocates! A student's knowledge is the product of all the factors in his environment. Remove the Y's podium and you limit the students' comprehension. The YMCA has made an honest effort to bring reality to this campus; if Mr. Coles would look over the year's program I am certain he would be shocked by the spectrum of ideas presented. So the YMCA is proud to have brought a segment of the ghetto to Caltech, and I hope, especially, that Mr. Coles has benefitted by their stay!

John Bennett

California Tech

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Into the Incinerator

Psyche Out Soup

by Jim Cooper

Frosh Edward B. Barrelmaker of the Mythological Institute of Theocracy knocked on the door of his dorm's UCWAF (Upper Classman Who Advises Freshmen).

"I would like to know how I can find my cousin," said Barrelmaker. "He is a grad student here at Theoc, but I haven't been able to find out exactly where he's staying."

"I wouldn't be able to help you on that," said the UCWAF, "but you might try the COTUGSRC."

"Who is the COTUGSRC?" asked Barrelmaker.

"Oh, he's the Chairman of the Undergraduate-Grad Student Relations Committee. You can find where he lives by checking with the COTWULOCC."

"Well, who or what is the COTWULOCC, and where does he live?"

"Boy, you sure are pretty dumb, frosh. The COTWULOCC is the Chairman of the Where Undergraduates Live on Campus Committee. I don't know exactly where he lives either, but I'm sure you can find out by checking with the guy next door. He's the Vice-President in Charge of Student Intercommunication."

"You must mean the VPICOSI," commented Barrelmaker.

"You're catching on pretty fast, frosh," said the UCWAF.

Knock! Knock! Knock!

"Yes?" said the VPICOSI.

"I've got to ask you a question," said Barrelmaker.

"Come on in, but let me finish recording some comments for an upcoming article in the *Theoc Docket*."

"O.K.," said Barrelmaker.

"As I was saying," said the VPICOSI, "our campus offers more opportunities than any other for a new student to really find out what is going on. The Associated Student Society here at M.I.T. maintains many committees so that a new student here can immediately obtain any pertinent information about courses, requirements or any other part of student life here at M.I.T."

"Now," said the VPICOSI, "What can I do for you?"

"I was told by my UCWAF that I could come to you to find out where the COTWULOCC lives so I could ask him where the COTUGSRC lives so I could ask him where I could find my cousin who is a grad student here at Theoc," gasped Barrelmaker.

"Well, the COTWULOCC is majoring in EBPOTP," stated the VPICOSI.

"What is that?" ventured Barrelmaker.

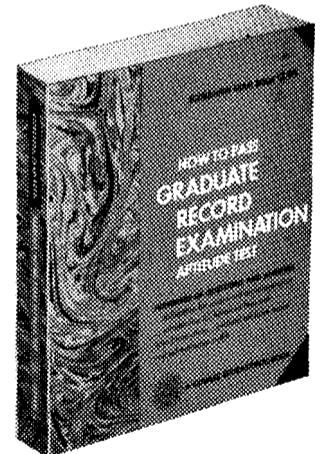
"Well any Theocer worth his salt should know that that stands for Exo-Biological Principles of Theocratic Philosophy. That means he would normally be in Ap #5. But right now he should be at a meeting of the Student-Faculty Dialog Making Committee. I don't know where they are meeting but you can find out by inquiring at the CCMPC (that's Chairman of the Committee Meeting Places Committee, frosh) and just asking about the SFDMC."

Tinkle, tinkle, dinggg. . .
"Information Operator? I'd like to get the phone number of Rodney S. Barrelmaker, who is a grad student at. . ."

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Ghetto Tutors Seeks Student Undertaking

(Continued from page 1)
ly been destroyed.
The racial situation is a complex issue which obviously lends to no easy solutions. Leon Ralph spoke well when he alluded that Vietnam was of no greater significance than injustice at home. While personal encounter is far from a solution, respect for another's opinions is a notable sign. Honesty has made dialog of value, and where this has been lacking, it was usually obvious to all. Fear of each other lessened when it was found we are fellow Americans cherishing elusive "equality."

Ralph Urges Racial Honest In Talk

(Continued from page 1)
tion considerations. The black man wants jobs that pay and have a future.
"This nation was built on rebellion because men were not being treated fairly." According to Mr. Ralph, a new rebellion is in the process because the guarantees written down in the American Constitution have not been freely given to the black man.

Mr. Ralph found it impossible to believe that past generations were unaware of the wrongness of the lynching, rape, and discrimination that has been carried out against the black man. This generation can, and must, be different.

Many of these years of habit can be broken by legislature. But there are only two choices open the power structure of America. "It must enforce upon itself the honesty that is so lacking, or it won't be around in the next ten years."

Is Governor Reagan Education's Friend? Continued Interference Says No!

by Tom Carlson

Governor Reagan is making the keynote speech next month at the kick-off dinner for Caltech's 85-million-dollar fund-raising drive. He is appearing in the role of a benefactor of higher

education. But does his past record indicate that he is a true believer in intellectual advancement, or does it indicate only a belief in instilling the "true morality" in the students?

Consider his philosophy of education as expressed in his inaugu-

ral speech on Jan. 5, 1967:

"We are proud of our ability to provide this opportunity for our youth and we believe it is no denial of academic freedom to provide this education within a framework of reasonable rules and regulations. Nor is it a violation of individual rights to require obedience to these rules and regulations or to insist that those unwilling to abide by them should get their education elsewhere."

"It does not constitute political interference with intellectual freedom for the taxpaying citizens — who support the college and university systems — to ask that, in addition to teaching, they build character on accepted moral and ethical standards."

The last clause in the last paragraph expresses a philosophy with which many people at Caltech When Reagan says the taxpayer's should require that the college teach "accepted moral and ethical standards," he in effect is stating that they should control the educational policies of the schools. Does true intellectual freedom exist under the domination of the general public? It never has elsewhere.

Another sidelight on Reagan's views on education comes from his statement that the state should not be "subsidizing intellectual curiosity." One can only assume that the governor considers academic research frivolous unless it has immediate material benefits. On that basis, much of what Caltech spends money on consists of "intellectual curiosity." Can anybody really believe that Reagan is the best man to invite for the task of initiating the fund-raising drive at Caltech? It seems hardly possible.

In his election campaign last year, Reagan attracted much public support for his criticism of Berkeley. But let us consider the comment of John Galbraith, the noted Harvard economist, who said, "if Berkeley is intellectually the least tranquil community in the world, as well it may be, it is most likely because it houses the best university in the world." It is highly improbable that Reagan's views on education correspond with those of most of the Caltech community. Reagan's giving the keynote speech for Caltech's fundraising drive is highly incongruous, to say the least.

Sandage Sees Riot Potential in Ghetto

An informal committee of parents has recently been formed in Pasadena to investigate the problem of de facto segregation in the city schools here. This private group, which has met twice, is exploring the entire range of inter-racial problems in Pasadena. Dr. Allen Sandage, on the staff of Caltech's Mt. Wilson & Palomar installations, is a member of this committee, and provided some information regarding it.

The committee is still in a fact-finding and organizational stage; its members are investigating the extent of de facto segregation in Pasadena's schools and its impact on educational quality in them. Nonetheless there is some feeling of urgency regarding their efforts. Dr. Sandage stated that there is the definite possibility of a Watts-style civil uprising in the not-too-distant future; he bases his opinion on the statements of Negro community lead-

ers who are also on the committee.

The committee favors bussing and other methods for forced integration of the Pasadena schools. Dr. Sandage was of the opinion that the primary virtue involved in bussing was not in improvement of facilities for minority students, but rather a change in attitude. He stated that bussing added to the self-esteem and peer relationships of the students and eliminated some of the feeling of a heterogeneous the feeling of a homogenous white community.

Another plan suggested by Dr. Sandage was the construction of a massive educational park to replace what he considered the outmoded neighborhood school. Although the committee favors integration and was established to promote better inter-racial relations, it has no definite objective nor plan of action at present.

More Notices

(Continued from page 1)

EPC POLL

Last year's comprehensive EPC poll is temporarily available in the Ricketts House library. Additional copies are in the process of being reproduced.

FEYNMAN SPEAKS ON MATH

Dr. Richard P. Feynman will speak on "Applications of Mathematics" at a meeting of the Caltech Math Club at 7:30 p.m. tonight in 151 Sloan. Everyone in-

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Science Wields Power in Politics

by David C. Elliot
Professor of History

On October 11, 1939, a letter from Leo Szilard was delivered to President Roosevelt which set forth the implications of recent work on uranium. Thus was set in train one of the more dramatic instances of scientific involvement in high affairs of state, and while we may reflect that this type of involvement is at least as old as Archimedes, it has in recent times become so widespread as to be almost commonplace.

The reason is obvious enough. Rulers require some understanding of the conditions under which they must manoeuvre. If politics is the art of the possible, the politician must know what are the bounds of possibility. This means that he needs help. He may sometimes appear to claim omniscience, but the wise leader knows in his heart the depth of his ignorance, and the extent of his success is not infrequently measured by the skill with which he seeks advice.

In the course of history a stream of experts has passed through the councils of kings and the cabinets of ministers. At first there was a trickle of specialists, mainly legal, financial, military and religious; now the floodgates have opened on a deluge of experts with a multifarious supply of skills. Among these the scientist catches our eye today as he has come to affect in a most massive way the power of nations and the welfare of peoples.

From bombs to babies the scientists point the way to new methods, and we take to these with adventurous alacrity. As our knowledge and power increase we are prepared to experiment hugely with the human condition. We doctor our bodies with ever increasing imagination; we surround ourselves with new clothes, new books, new homes, and new highways: we blow holes in the earth and will rocket, it is hoped, our fellows to the moon. Science is certainly involved in our public affairs and, some would say also, in matters we had hitherto regarded as private.

Purity

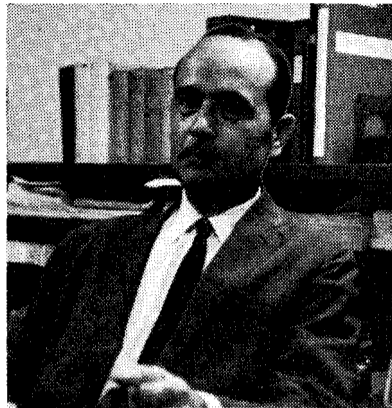
In this way the objectivity of pure science goes out the window. It does matter what is going on in the lab, and what goes on outside becomes influential inside. Without the nuclear physicists there would surely have been no bomb. For geologists the uncomplaining rocks have given place to the politically charged affairs of Venus and of Poseidon, the earth-shaker. Even the mathematicians, purest of the pure, have delved into the mysteries of cryptography. And so the role of the scientists in public affairs continues to grow apace.

This creates problems.

First of all, there is the problem of bias. For those with power — and the special knowledge of the scientist gives him power — there is a familiar tendency to press special interests. Machavelli long ago warned the Prince to take care that his ministers did not begin to think more of themselves than of him. Henry II's religious adviser, Becket, ran into trouble when he set the interests of his church above those of the political community. Napoleon has not been the only military expert to take over the state in the name of conquest. Can we avoid setting up similarly narrow goals in the name of science?

Secondly, there is the problem of hubris. A biologist may have a great deal to tell us about genetics; he is not necessary a good guide on the problems of racial strife. And what he knows about

genetics is still subject to further investigation and refinement. Undeterred by these limitations and by the dismal record of history, experts have pushed their ideas gaily forward. As we think of the religious holocausts of the past, the military disasters, and the economic crises, we may well pause to contemplate the



—Photo by Waugh

David C. Elliot

value of expert advice.

Think

But, though advice may be biased or incomplete, that is no reason to reject it but only to treat it with some reserve and caution. Barry Commoner has described our record in jumping ahead with new technologies before fully understanding what we were about. We have managed to pollute the air, foul the waters, and contaminate the earth's surface. We solve one problem and create half a dozen.

Perhaps we need to look more carefully before we leap.

Public affairs are, of course, primarily human problems. How do we manage relations between people? How do we prevent them getting in each other's hair and enlarge their opportunities for more constructive action? But whatever the particular problem, be it defense or smog, food or communications, we have to know what the choices are which are open to us. The state of scientific knowledge and the extent of technical skill are of crucial importance, and, since both of these now take us far beyond the obvious, the need for expert advice in public affairs is inescapable.

This suggests that there is a special responsibility on the scientist—and the term may be used in the loosest way to include all with special skills and special knowledge — to pause and reflect on the significance of his work for the society in which he lives. And at times he must speak out. Not all can, like Szilard, capture the ear of a President. Others have operated and must operate at a humbler though nonetheless effective level. Some indeed had better remain silent. God forbid that every scientist should charge into the public arena. But some should and happily have.

If scientists have an obligation to contribute to the public debate,

Westside Director Blames Whites for Ghetto Problems

A. Lionel Larsuel is the Associate Director of the Westside Study Center. This post made him a member of the squad that defused Pasadena's summer. At the Athenaeum Luncheon Forum yesterday on the topic, "A Pas-

adena Summer That Didn't Explode," he said that while no buildings fell and no riots occurred, there was an emotional explosion among the 35,000 inhabitants of Pasadena who are black. Among the reasons for this so-far non-violent explosion he listed the games that the city of Pasadena plays. One of the games that make the black community angry is the handling of the vote that Northwest Pasadena represents. Another is the lack of commitment of the white community to a system to really educate the people of the ghetto. Mr. Larsuel's answer to the state-

adena Summer That Didn't Explode," he said that while no buildings fell and no riots occurred, there was an emotional explosion among the 35,000 inhabitants of Pasadena who are black. Among the reasons for this so-far non-violent explosion he listed the games that the city of Pasadena plays. One of the games that make the black community angry is the handling of the vote that Northwest Pasadena represents. Another is the lack of commitment of the white community to a system to really educate the people of the ghetto. Mr. Larsuel's answer to the state-

(Continued on page 5)

LSD -- Ecstasy or Insanity?

Color Film & Discussion

Sunday — October 22 — 7:30 p.m.

Mr. Milford S. Zimmerman

Assistant Professor, Cal State,

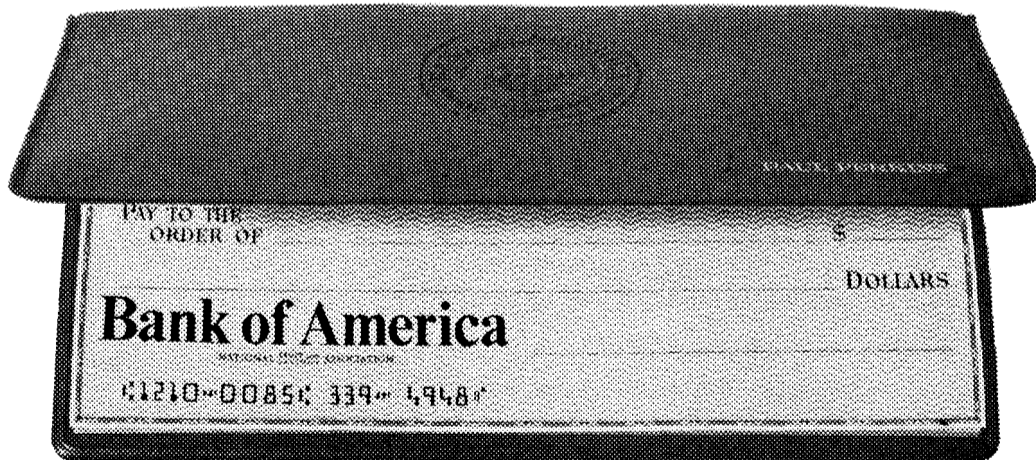
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Wark Describes Treasures Of Huntington Museum

In the first of the fall series of Caltech's Monday Night Lectures, Dr. Robert Wark, curator of the Huntington Art Gallery, discussed the development and current contributions of the art under his care.

The gallery is housed in the former home of the late Henry Huntington, the collection's founder. Along with the more famous Huntington Library and the botanical gardens, the gallery is located on a large tract of ground in San Marino, about a mile from campus. The collection itself is composed exclusively of British portraits, drawings, silver, and watercolors, and French furniture and sculpture, all of the period 1750-1830, sometimes classified as "Georgian."

So specialized a collection, which attempts to collect a large number of works by a comparatively small number of artists, naturally is not so familiar to the public as galleries with representatives of a large number

of artists. Wark, by the use of comparative slides, demonstrated the value for scholars in such a collection as to an artist's development in regard to style and technique. Such study is rarely possible with broadly based collections.

When the gallery opens November 1, a special exhibit of Gainsborough landscape sketches will supplement the permanent exhibits, and Wark emphasized the interest that a continuing series of such specialty exhibits might have for the visiting public.

The starting time for the lectures has been changed to 8:30 p.m., rather than 8:15. In previous years, these lectures have attracted hordes from the local area, so that Pasadena residents now outnumber Caltech personnel. Such was the overflow in especially popular lectures in the past (one was repeated the following night) that an early arrival at Beckman Auditorium is advised.

Selective Service Laws Show Deferment Alterations

The new Military Selective Service Act, enacted June 30, 1967, contains certain provisions affecting student deferments which differ from those previously in effect. Primary liability for military training and service is placed on male citizens of the United States who are between 18½ and 35 years of age and on male aliens in the same age range who have been admitted for permanent residence or have spent time in the United States totaling at least one year. "Military training and service" involves a total time of six years, of which required active duty may occupy from as little as four months to as much as four years, reserve duty occupying the remainder. Draftees are committed to two years of active duty followed by four years of reserve.

II-S

A registrant may be placed in Class II-S (student deferment) if he has requested it and is "satisfactorily pursuing a full-time course of instruction at a college, university, or similar institution of learning." Progress is considered satisfactory if the student

has earned, say, at least 25 percent of the total number of credits required for graduation if he has been enrolled 25 percent of the amount of time normally required for graduation. It is the student's responsibility to report annually to his local draft board, giving evidence of satisfactory progress. II-S deferment is continued until the registrant completes requirements for a baccalaureate degree, fails to give evidence of satisfactory academic progress, or attains the age of 24 years.

I-S

A full-time college student who is not classified II-S for some reason, is making satisfactory academic progress, and is ordered to report for induction during his academic year shall be placed in Class I-S unless he has previously been placed in Class I-S for this reason or he was in Class II-S and received his baccalaureate degree. He will remain in Class I-S until the end of the academic year unless he fails to maintain satisfactory progress during the year. The "academic year" is defined as the 12-month period following the be-

ginning of instruction (course of study).

Deferments are available in Class II-A for anyone who is preparing for skills or occupations defined by the Director of the Selective Service System as necessary to national health, safety, or interest. These have not yet been defined; the list will be available early in 1968, but will continue to be subject to revision.

Grad Students

In the meantime, any student in his first year of graduate study on Oct. 1, 1967, if he entered the first class following his completion of the requirements for graduate study, may be deferred in Class II-S for one year only, unless he ceases to maintain satisfactory progress.

Any student in his second (or later) consecutive year of graduate study on Oct. 1, 1967, may be placed in Class II-S if his school certifies that he is satisfactorily pursuing full-time instruction leading to a degree. He may not be deferred for a course leading to a master's degree for more than one year. If he is pursuing a doctorate or professional degree, he may be deferred as much as one additional year or until he has spent five years in graduate study, whichever is greater.

The July 10, 1967, issue of U.S. News and World Report contains an article on the new act; specific questions should be referred to local draft boards. The text of the President's Executive Order is in the July 4, 1967, issue of the Federal Register.

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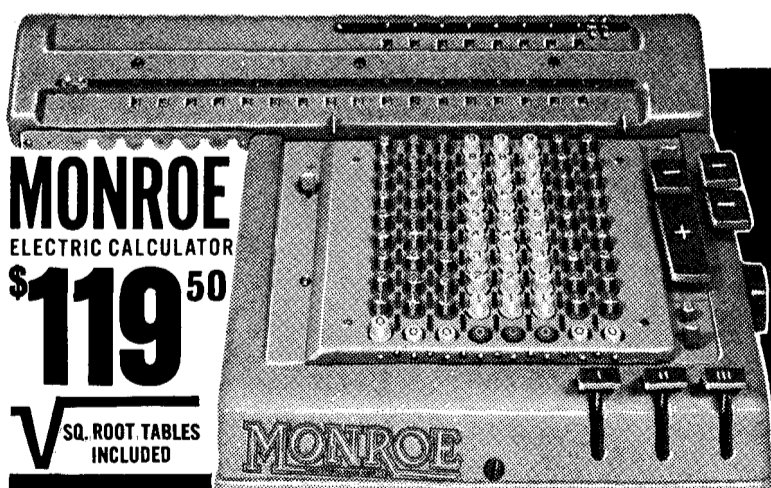
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Larsuel Seeks Commitments In Ghetto

(Continued from page 4)

ment, "Look at all the jobs you could get if you were only qualified," is, "When is the white school system going to start qualifying?"

He clarified the impression that might be had that there is no bomb in Pasadena. There definitely is a bomb, but the fuse is burning slow, so far. Mr. Larsuel stated that he found it difficult to put the respect that Westside has won from both the black and white communities on the line to tell someone that there is hope for change, when that person goes to a newspaper and sees plans for a long range study of a long range development of a long range plan. He said that it is difficult, when you're sitting in school and you don't have a job, and next to you is some guy in a cool shirt, and some chick, which is all you're both trying to impress there for anyway, because you're not learning anything, it's difficult to keep cool.

Mr. Larsuel is looking for a commitment. He said that he can't tell anyone what to do to help, but it is obvious that he expects something. He expects the City of Pasadena to do something about jobs, about schools, about police relations with the black community. He would like to see the black professionals of Pasadena, most of whom work outside Pasadena, become involved with their brothers in the city, if only to show that there is some hope, that there is a possibility for achievement.

TECH Sports

Caltech Soccer Team Scores Victory Over Cal Poly for First of Season

The Caltech soccer team scored an exciting victory over Cal Poly at Pomona last Wednesday. The final score was 2-1 for the Beavers' first win of 1967 campaign.

Both teams played well, in spite of heavy smog. At the game's start, the smog was already breath-takingly thick, and by the end of the game, one could hardly see the opposite end of the field clearly.

CIT's first goal came when Armando Moreira smashed the ball past Cal Poly's defense and into the net. Les Fishbone scored the deciding goal with a long kick from the side of the field which bounced into the goal just beyond the reach of the Cal Poly goalie.

The Pomona team's only goal

came when the ball bounced erratically out of a scramble, hit a bump and rolled into the net past the Tech goal keeper. CIT had lost four straight contests before her win last Wednesday.

The following Saturday, Tech played host to the USC soccer team at Tournament Park. The Beavers were unable to get up enough steam to break through USC's strong defense early

enough, while the Trojans managed to penetrate the Beaver defense for three goals. The final score was 3-1. Caltech's only goal came when Moreira booted a penalty shot past the USC goalie.

Attendance at Saturday's contest against Southern Cal was poor, but better than the previous weeks'. About twenty spectators attended the game.



—Photo by Johnson and DeWitt

Oxy Becomes Second Victim Of Tank Team

The varsity water polo team won its second game of the year, thus equaling last year's record, by defeating Oxy 5 to 2 during the league tournament. A strong defense limited Oxy to 9 shots with the two goals coming off penalty shots. Five different men each contributed a goal toward the total for the Beavers.

In other games this week, the tankmen muffed the second sudden-death overtime game of the season to lose to Riverside CC 5 to 4 while having two more men in the pool than Riverside who had fouled out much of their team. Other games at the tournament found Caltech pitted against Cal. St. Fullerton for the second time this year, and losing 12 to 4, with both sides playing their second teams in the second half. A bright spot was the contribution of two goals each by two frosh in the second half.

For the third game of the day, Caltech met Pomona and played an even game except for the inability of the Beavers to score, even missing the penalty shot. At the end the score was 5 to 0.

Yesterday the league season opened against CHM with the team traveling to Jomona Sat. for a rematch. Cal St. L.A. is at Caltech Tuesday and the team

is away to Riverside to meet U.C. Riverside Wednesday.

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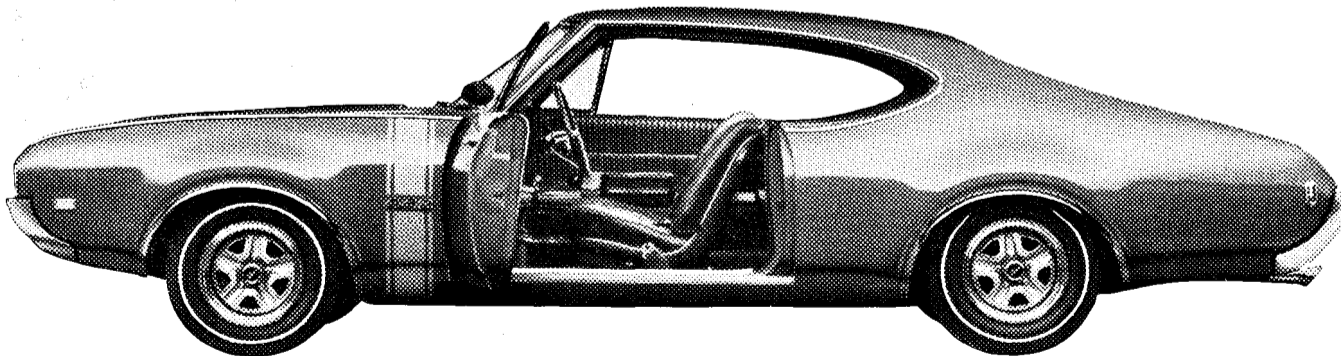
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Paul A. Harmon

Fleming House Off to Flying Engineers Swamped Start in Defense of Throne By Hens; Lutheran Is Their Next Foe

Fleming House is actually quite a phenomenon! Almost everybody had relegated the Flems to third place in Interhouse Softball (or to a second place tie at most), to finish behind Ricketts and Page. Why, at the start of the softball season, even Athletic Manager Jim Stanley was concerned about the mediocrity of his House's team.

Well, either the Flems are not as mediocre as at first thought or all the other Houses' teams (especially Ricketts' and Page's) are not as of such a high caliber as suspected before the 1967-68 IH campaign got under way. In either case Fleming is off

to a flying start toward successfully defending the Interhouse Trophy which she earned last year. Through Tuesday, the Flems could proudly boast of an undefeated 5-0 softball season, with an important championship game (the results of which were not known before the Tech deadline and, therefore are not reported here) remaining with Ricketts on Wednesday.

Whatever the outcome of that game, however, Fleming has cinched no worse than a first-place tie with Ricketts, which was 4-1 going into the championship. A Scurve victory would force the tie. A Flemish win

would result in an undisputed championship.

All the other Houses have played all of their games, but should be concerned about the results of the Fleming-Ricketts contest since it could affect the point spreads of IH softball.

Lloyd and Page finished with identical 4-2 records, creating a third place tie worth 40½ points for each House. Lloyd managed to beat Ricketts, but lost to Fleming and Page. Page's two losses were to Fleming and Ricketts.

Ruddock finished fifth with a 2-4 record; she defeated Blacker and Dabney. For their performance the Rudds are entitled to 27 trophy points. Blacker gets 18 points for finished sixth with a 1-5. Finally, 9 points go to Dabney, which went winless 0-6.

With IH softball over, the House athletes now begin thinking in terms of putting together a strong swimming squad. IH swimming practice officially begins November 20 and continues to December 4. Competition starts December 5.

For the first time in a long time, the Caltech football team experienced the thrill and excitement of being ahead in a gridiron contest. In the first quarter of their game at Pomona last Saturday night, the Beavers led the Sagehens at two points 8-6 and 15-13. After that, however, the thrill turned to agony as the Pomona team came from behind to lead at the end of the first half by a score of 41-15. The second half was almost an exact duplicate of the first, and the final score was Pomona, 74; CIT, 29.

The loss to Pomona was Caltech's third in three games this season. It also brought her conference record to 0-2. After the see-saw battle of the first quarter, the Beaver defense seemed unable to stop the scoring drives of the Sagehens. As a matter of fact, play in the Caltech deep secondary was so bad that they chose no defensive back of the week.

Other outstanding players were named, however. For the second week in a row, quarterback Tom Burton was offensive back of the week. His split end and favorite pass receiver, Lonnie Martin, was offensive lineman of the week. The defensive lineman of week was Tech's strong and agile linebacker-tackle-end, C. Alan Beagle.

If nothing else, the Pomona game demonstrated that the Engineers' offense could sustain scoring drives provided Burton has time to pass effectively. The interior linemen played their most impressive game of this season, blocking well for the passer and opening holes for running backs John Frazzini, Ray Kawal, and Barry Fitzgerald. Saturday night was the first game in which the Beavers weren't held to negative yardage on

the ground. But the real venom of the Tech offensive attack rests in the passing of quarterback Burton. Tom completed 11 of 27 for 204 yards and two touchdowns. Both TD passes went to Martin on long yardage plays: All told, Martin hauled in six catches. The Burton-Martin pass is becoming sort of an institution in the Southern California Intercollegiate Athletic Conference these days, much to the dismay of CIT's opponents.

The other two CIT touchdowns were scored on a 2-yard sneak by Burton and a 1-yard plunge by Kawal. The Teckers also scored two points on a safety when a Sagehen back was chased into the end zone by almost the whole team of Beavers after a Frazzini punt early in the first quarter.

This weekend the Beaver gridgers travel to Thousand Oaks to challenge a perennially strong Cal Lutheran squad. Last year when the two teams met at the Rose Bowl, Cal Lutheran walloped Tech 48-6.

Much Ado About... Mainly Basketball

by Creasy

By mid-October Teckers are usually so deeply involved in their first term work that they are rarely aware of what athletic endeavors are in progress. Oh, most probably do recognize the presense of a football game every weekend or so. A smaller number know that water polo and soccer games are played several times during a week. Fewer still have a vague notion that a group of dedicated masochists may run for miles a day to prepare for a weekend cross country race of some four miles.

Oh, yes, I should add that the real purpose of this babble is to announce that basketball practice for the 1967-68 campaign has officially begun as of this past Monday and will continue daily at 4:30 p.m. in the Scott Brown Gymnasium. Head coach Ed Preisler is inviting all undergraduates—even frosh—who are interested in playing intercollegiate NAIA basketball to attend practice today.

The first basketball game is scheduled for the first week in December against Southern California College. The Beavers are preparing to improve their record of last season, when they won only about 20% of their games.

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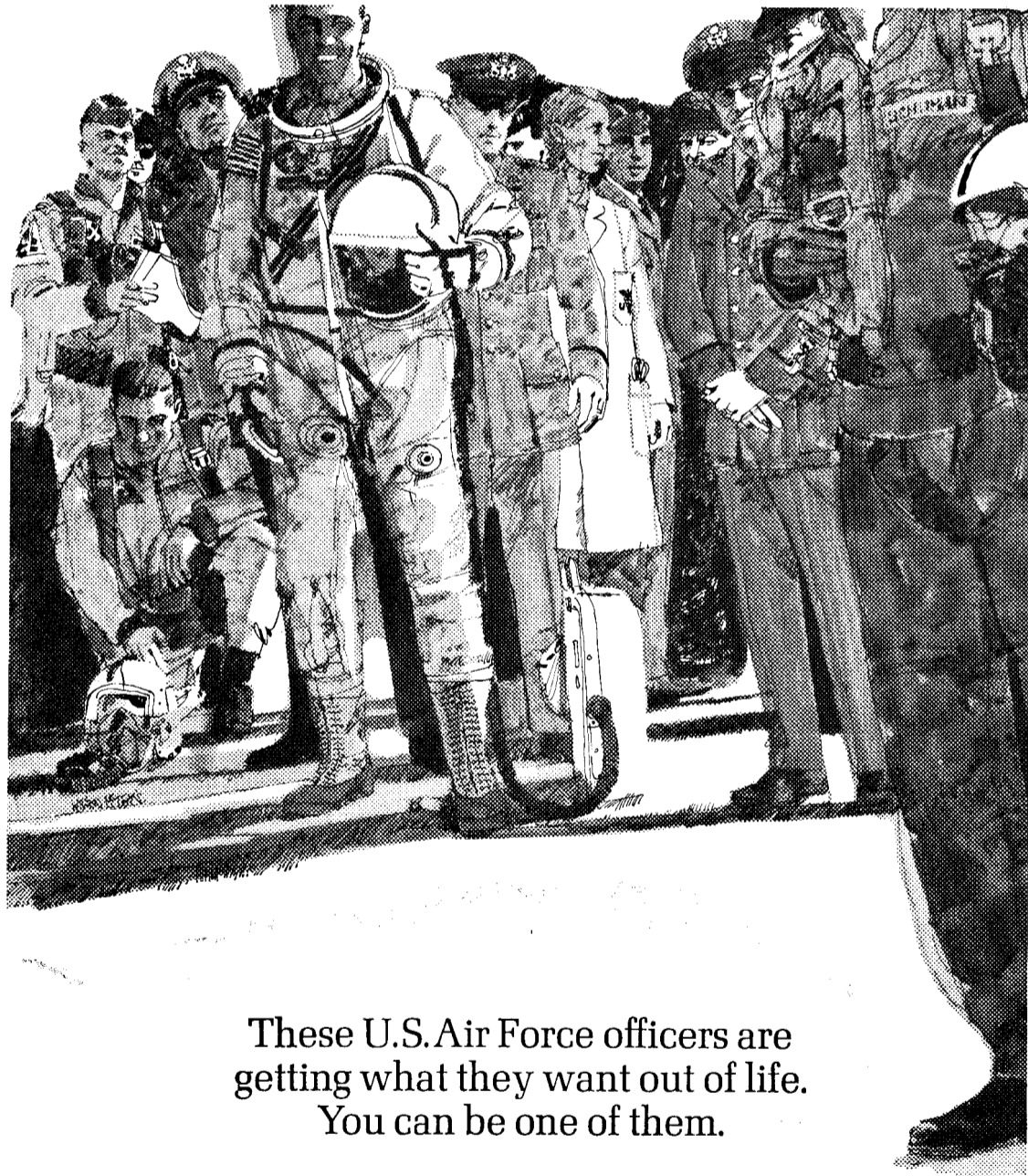
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Interest Abounds in ASCIT Research Project; Topic Due

by Jim Cooper

In an interview this Tuesday for the California Tech, ASCIT President Joe Rhodes stated that the initial meeting of the student research project group was very successful. This meeting, held last Wednesday, October 11, in Beckman Auditorium, was attended by more than 125 graduate and undergraduate students.

The first major decision reached at the meeting was that there would definitely be a student research project. The only remaining question then, is what, exactly the research topic will be.

Five committees were formed at the meeting to investigate the possibilities for research in each of five different fields. These fields include population control and food production, education, pollution, living systems, and transportation. A sixth committee was also formed to investigate any other research possibilities suggested by any member

of the Caltech community.

These six committees will give their reports and recommendations at another general meeting of the research group next Wednesday, October 25, and the final topic for the student research should then be decided.

President Rhodes said that the

future of the program looked very bright, but he also warned that if members of the committees became emotionally involved with their pet projects, the project could be almost hopelessly bogged down due to a lack of compromise in choosing a topic.

Comedy in Beckman Tomorrow

by Tom Carlson

Beckman Auditorium will host two lively comedies this Friday night at 8:00. "Squat Betty" and "The Sponge Room" are two one-act plays and the topic is the old eternal. The sponge room in the British Museum may not seem like the best place for a love affair, but it is a perfect setup for laughs. The noted cast of the Melrose Theatre includes Richard Bull, Barbara Collentine, Lawrence Haddon, Jacquelyn

Hyde, and the director-actor Paul Kent. The British playwrights Keith Waterhouse and Willis Hall wrote these plays, and their ability to portray the foibles of their countrymen is truly hilarious. The tickets are 4, 3, 2, and 1 dollars apiece, and will be available at the gate. Be sure not to miss this fine opportunity for a lighthearted, entertaining evening. It would be even better with a date.

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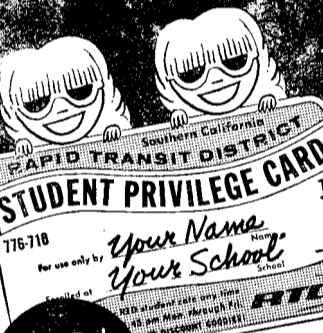
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