

Ruddock Leads Houses in Y Finance Drive

A total of \$2,240.34 was collected by the YMCA from 536 undergraduate and graduate students in the annual Y fund drive, with Ruddock House leading the way in total collections and highest average per House member.

Undergraduates contributed \$1,981.22 to graduate donations of \$259.12. There were 432 undergraduate donors and 104 graduate donors to the fund drive.

Ruddock House, for the second year, collected more than any other undergraduate House, with a total collection of \$400.84. Ruddock also had the highest donation per House member, with an average of \$4.40 per person.

Other Houses donated as follows: In total donations, Page was second with \$320.55, followed by Lloyd with \$319.59, Blacker with \$269.00, Ricketts with \$261.50, and Dabney with \$210.49. Fleming was last with \$198.25.

In donation per House member Lloyd followed Ruddock with an average donation of \$4.10 per House member. Lloyd was trailed by Page with \$3.69 per House member, Blacker with \$3.59, Ricketts with \$3.19, and Dabney with \$2.83. Fleming was again last with an average donation of \$2.38.

Goldwater Met by Techmen; Talks Freely

Senator Barry Goldwater of Arizona, leader of the Conservative movement in America, held an informal discussion in the Winnett Lounge on Tuesday afternoon and a panel interview in Dabney Lounge on Wednesday morning. In both discussions, which were a part of the Caltech YMCA's Leaders of America program, Goldwater answered questions about his views on politics, world affairs, and individual freedom.

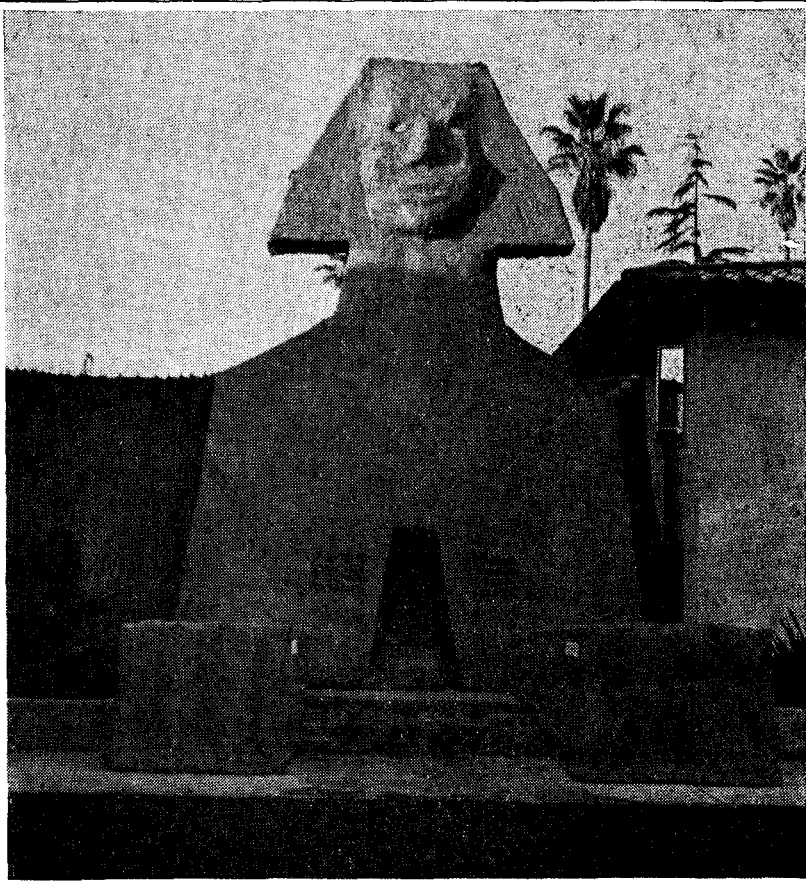
In his Wednesday morning talk he commented on U.S. foreign policy, stating that "when we are strong there is no trouble, but when we are weak we are in trouble." This fact was apparent in the handling of the recent Cuban crisis, he stated. Goldwater asserted that "our position has diminished since World War II" even though the U.S. was the dominant world power. He supported a strong policy which would demonstrate to the world a powerful nation. Goldwater urged that the U.S. export the "spiritual spark" of American heritage which is "what makes us great" instead of material gains.

Central Government Weak

On the subject of centrally controlled government, Goldwater stated that such a government "would be disastrous to have." He believes that states rights are really individual rights because the state is the governing body closest to the will and control of the people. A major fault

The panel members on in centrally controlled govern-

(Continued on page 5)



—photo by Phil Liapis

Ruddock's 35 foot half-scale model of the Sphinx frowns over Lloyd House in anticipation of the interhouse dance crowds. Sphinxie's "belly" contained a mechanical belly dancer, as promised, and a fire-breathing Sarcophagus.

Hundreds of Eager Teens Descend to Snow Tech

BY J. C. SIMPSON

Eleven to thirteen hundred eager high school students are expected to descend on Caltech this Saturday morning to snow Techmen again as part of the annual Student's Day. As in past years, the students will be given a guided tour of the campus during the morning, when

the hopelessly outsnowed guides will try to impress them with the wonders of science and Tech. There will be seventy exhibits this year and each group will have an opportunity to see seven of these.

While the students are feasting on a typical Saga repast and mingling with typical Caltech geni in the Student Houses, the teachers will be listening to Dr. Edwin Munger speak on "Changing Patterns in African Society" in the Athenaeum. Afterwards a special program will be given on the lush Athenaeum lawn which will include talks by President Larry Rabinowitz and Dr. DuBridge.

During the afternoon, three groups of five lectures will be presented and the students will be able to choose one in each of these groups. The topics to be offered include the Moessbauer effect, the Mariner II, radio astronomy, the origin of life, and a unique lecture entitled "Wiggles, Rhythms, and Natural Servomechanisms."

Asilomar Conference Hopes To Duplicate Past Success

"What in the world can I do? With this as its theme, the Asilomar Conference of the YMCA promises to repeat the success of past conferences. It will be held from December 27, 1962—January 1, 1963 at Asilomar, California, on the tip of the Monterey Peninsula. The Asilomar Seminars pursue seven specific areas of concern:

- 1) "Latin America: Tension spot in the International Scene."
- 2) "The Nature and Nurture of Creativity"
- 3) "God in a Man-Centered Society" (or Search for Basic Values)
- 4) "What is a Good American?"
- 5) "The Language of Understanding"
- 6) "Laboratory in Interper-

Goals of Society Told by Goldwater; Freedoms Upheld

Senator Barry Goldwater, visiting Caltech in the Y Leaders of America program, spoke last Tuesday evening at Culbertson Hall on the subject "Goals of a Free Society." He stated that a complete list of goals was far too long for discussion, but set forth four basic conditions which a free society strives to create.

The first of these was related to be a government "compatible with the maintenance of freedom." Goldwater stated that this fact was recognized by the founding fathers of our country and that evidence of this is seen in the organization of our government. An almost religious basis for our system of government was portrayed, in that the endowment of freedoms is a religious concept.

Equality of rights are inherent at birth, but Goldwater declared that it is the extent of the use of these rights which determines degree of freedom. He urged that we endeavor vigorously to convince the new emerging nations of this fact and of the compatibility with freedom that our pattern of government presents.

Problems With Humans

Human nature was stated by Goldwater to be the central problem in developing the second goal of a free society. The goal here is to change ourselves "so we always have the best side of the coin of human nature up." But the issue of actually contending with human nature, especially concerning the use of power, was portrayed as no easy task. He said, "The problem is man. I don't believe crises are created by situations—they're created by man."

An economic system that can provide more for more people was set forth as the third goal. Goldwater says he believes we have attained this, but that he fears we may let it slip by, due mainly to increasing central control of the economy by government. He described social-

ism as "the economics of baboons," where all the nuts are piled in one corner of the village and each takes what he needs. This would work fine, he said, until one of the baboons got smart and ran off in another corner and set up his own free enterprise system.

The fourth goal was declared to be the maintenance of freedom itself. He defended conservative resistance to centralization, which tends to limit the extent of individual freedom. Freedom was termed a "basic animal drive." The common notion that conservatives are opposed to change was contradicted by Goldwater, who advocated opposition only when the experience of history showed that change won't work. He said he liked to think of himself as a "most modern man."

Question Period

Following the talk there was a question and answer period moderated by Dr. DuBridge. Goldwater expressed the following opinions: (1) Civilian control of the military, although necessary, is becoming too great in regard to actual defense planning. Actual experience in defense

(Continued on page 2)

Notices

PHYSICS CLUB TO MEET

This evening at 8 p.m., the Physics Club will meet at Dr. Lauritsen's home to hear Dr. Robert Christy, Professor of Theoretical Physics speak on "Stellar Interiors." Refreshments will be served. Lauritsen's home is at 1559 Rose Villa, Pasadena; rides should not be hard to find, but if unavailable, see Steve Prata in Page.

STUDENT LIFE TALK SET

Next Monday evening at 8:30 p.m., Steve Prata will be sponsoring a talk by Dr. James C. Davies on "Student Life in Portugal" in 208 Dabney. All are invited to attend.

LIBRARY REMAINS OPEN

The Dabney Library will be open from 7:30 to 11:00 on the two Saturday nights (December 1 and 8) before finals to allow students to study for finals. If enough students make use of this opportunity, it will be continued.

Y MOVIE FEATURED

On the Town, Leonard Bernstein's color musical about three girls and three sailors in New York City, will be this week's Y movie. The film will be shown at 7:30 Sunday night in Culbertson. Admission is seventy-five cents at the door.

RIDE NEEDED

The Personnel office requests that any individual who is interested in helping to give a child who attends the Oak Knoll School near Arroyo and California a ride to school in the morning contact Mr. James Ewart at extension 321. There will be adequate compensation for the transportation.

Editorials

Memo to Visiting Students

This Saturday is Students' Day; and, as in the first issue of the year, the editors of the **Tech** usually write a neat little editorial welcoming the high school students and reminding them that they are at a school that is in the frontiers of research in almost all scientific fields.

This is indeed true. As an incidental fact, Caltech and MIT receive so much government R&D contract money (second after the University of California) that they have been criticized in Congress.

Today, the visiting high school students will see some of what the government's money has been spent on.

Hopefully, however, today is not the end. The high school students who are attending Stuednts' Day probably include a great many students who may hope to someday attend Caltech.

For students who feel that they fall in this caegory, may we make a suggestion? Try to remember that Caltech is not all "frontiers of science" and that attending here is not all "research into the future." There are other parts to attending Caltech.

Of course, the most important other part of Caltech is learning. This is, however, difficult to get a view of except during the few lectures presented during the afternoon. Even these lectures, though, are apt to be not typical.

Another part of Caltech that exists is living here. Most students now live on campus. To get a view of what it is like to live at Caltech is something that can be done in a short time. To this end, then, we would like to make the following suggestion: Learn what you can about the Student Houses. Also, try to find out about the opportunities available outside of science at Caltech for recreation and learning.

Probably the best way of doing this is to ask a sophomore, junior, or senior. If all else fails, ask your guide.

And incidentally, welcome to Caltech.

—Richard Karp
J. C. Simpson

New Light on PE Issue

It has been brought to our attention that the **California Tech** made an error in our first physical education editorial when we claimed Caltech was the nation's only non-military school which still had four years of mandatory PE. The PE department after much research has discovered that Pomona College also has four years of required PE, and shows promise of uncovering yet another school somewhere in the U.S.

This does not change, however, the **Tech's** stand on the matter. The large majority of U.S. schools do not require four years of PE, and the **Tech** agrees with this opinion. We feel that a student, after he has undergone a two year introduction to PE, has the right to decide for himself whether or not he feels that it is valuable to him in his last two years. His physical condition is a personal matter, and not one for which the school should assume responsibility.

By making PE optional, students with labs would also be released from volleyball and be able to enroll in a class or sport which they would actually enjoy by going once or twice a week. This would help perpetuate those PE classes which are now unable to obtain adequate students because of their scheduled hours.

—J. C. Simpson
Richard Karp

California Tech

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—Courtesy of the LSUNO Driftwood

Your Air Force Is Awake
Sleep Tight TonightDevices Do Not War Substitute
Limit Our Smog Will Be Sought

Dr. A. J. Haagen-Smit of the Caltech announced Sunday, at the opening session of the 16th Clinical Meeting of the American Medical Association, that, contrary to popular belief, exhaust control alone will not solve smog problems. It is much more necessary, for instance, to reduce the consumption of gasoline and other hydrocarbons.

Haagen-Smit pointed out that in July of 1960, a law was enacted which called for a reduction of hydrocarbon emissions by motor vehicles and an eventual reduction of smog to the 1940 level. Due to the yearly increase in the number of autos, an 80% reduction of exhaust hydrocarbons would be required to reach this goal by 1970—a decrease impossible with present "after-burner" devices.

Improved public transportation, economy cars, better traffic flow, and electric transportation would help greatly in reducing smog.

Goldwater Lecture

(Continued from page 1)

is lacked by most civilians; (2) We should increase technical aid to underdeveloped countries, but not necessarily economic aid. Technical assistance is a means of developing both individual and national friendships; (3) The Supreme Court prayer decision was proper in that particular case, in that there should be no "standard" prayer. Prayer in the schools, however, should not be discontinued; (4) A pure free enterprise system would not work, especially on a scale as large as ours. Limited government control is a necessity.

Beer And Politics

Following the Culbertson speech a reception was held for Goldwater at the home of Wes Hershey, executive secretary of the Caltech Y. A wide variety of subjects were dealt with in an informal discussion with the Senator. These ranged from the operation of Strategic Air Command headquarters during an emergency to various aspects of the American press. Goldwater related some of his personal experiences in Washington as well as many others in his life as a senator.

Each year the Caltech Y brings two or three distinguished people to the campus in the Leaders of American pro-

The Santa Barbara World Affairs Institute will be sponsoring a program on the theme "The Warless World" planned for November 30 and December 1. Nine speakers will propose different aspects of an answer to the question, "What would replace war if we should achieve the disarmed world?"

Paul G. Hoffman, former president of the Studebaker Corporation, former administrator of the Marshall Plan, and present Managing Director of the Special Fund of the United Nations, will open the program, the seventh annual program in the series presented by the Institute. The other speakers will view the topic from the aspects of economics, world trade, psychiatry, education, the military, and American culture. The list of speakers includes: Kenneth Boulding, Samuel B. Gould, Paul G. Hoffman, Judd Marmor, Walter Millis, Marcus G. Raskin, Arthur I. Waskow, Sir Robert Watson-Watt, and Harvey Wheeler.

For further information see Larry Rabinowitz.

Biologists Discover
Flower's Hormone

Drs. James Bonner and Jan Zeevaart, biologists at Caltech have recently discovered that the elusive hormone that induces plants to flower and bear fruit is a steroid. They have named this hormone "florigen." One reason for great interest in florigen is the possibility of controlling crops with a synthetic version of it.

The work of Bonner and Zeevaart, supported by the National Science Foundation and the Herman Frasch Foundation, has also shown that florigen is synthesized in the leaves of the plants. In the cocklebur and Japanese morning glory, this process occurs only in darkness, 8½ hours of which are required for completion of the process in the cocklebur. In many plants, temperature affects the production of florigen more than light.

Florigen is so potent that one leaf of a cocklebur plant can synthesize enough to induce the entire plant to flower. However, it is also sensitive enough that one flash of light during the 8½ hour period of darkness can prevent synthesis.

Booth Center
Being Built

Currently under construction at Caltech is the Booth Computing Center, located on the northwest corner of San Pasqual and Chester. Planning for the building started early in the spring of this year, and construction has been under way for about a month. Completion is scheduled for August of next year.

The structure, which is being financed jointly by the Willis H. Booth Foundation and the National Science Foundation, will house an IBM 7090 computer and probably the Burroughs 220 which is now in Spalding. The Center will be 2 stories tall, with one basement. The first floor will be occupied by the computers and accessory equipment, while offices and small labs will make up the second floor. The basement also will consist of small labs. The basic purpose in the building is to coordinate all the computing activities of the Institute in one location, as the facilities will be used by all the departments of the Institute.

A unique feature of the building is a double floor at ground level. There will be a space of about eighteen inches between these two floors, in which will be the ventilation and electrical equipment necessary for the operation of the computers. This will also facilitate the movement of equipment, in that accessory apparatus can easily be altered. Another feature of the Center will be the existence of information gathering devices located at various spots around the campus. This will enable calculations to take place simultaneously with experimentation, as each department will have a direct tie-in to the computer.

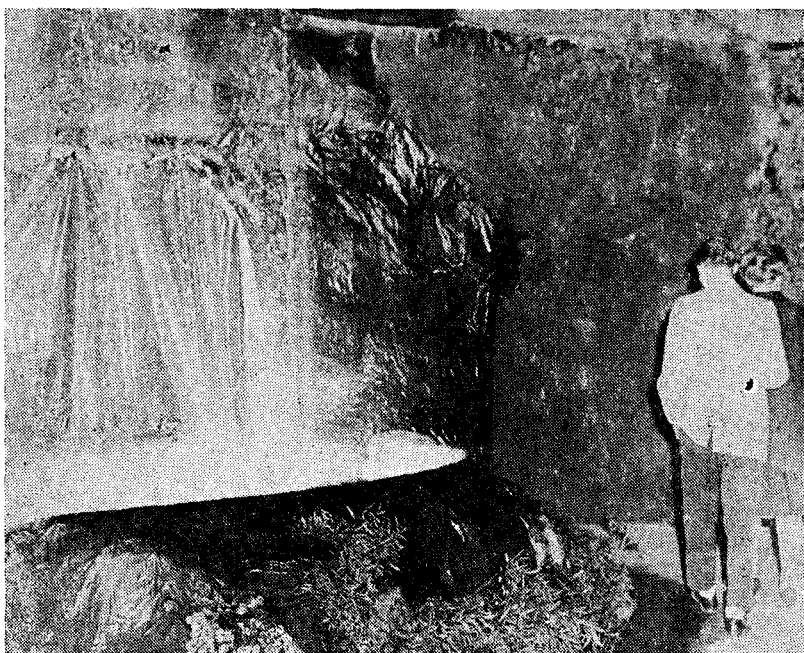
Architects for the building are Neptune and Thomas, a Pasadena firm. Construction is being handled by Steed Brothers, who built both the new undergraduate and graduate Houses.

Assembly of Y
Students Held

From December 27, 1962, to January 2, 1963, the seventh quadriennial National Student Assembly of the YMCA and YWCA will be held at the University of Illinois at Urbana. The theme of the assembly will be "Revolution and Response," with addresses on the theme by various national and international leaders.

Besides the addresses, there will also be daily workshops on student responses to seven issues related to the "rapid social changes affecting today's world," each workshop being under the leadership of a different notable; other special events are also scheduled.

Attendance at the assembly is not just restricted to national delegates of the local Y's, but is open to college faculty members, administration officials, and interested students. Caltech students interested in attending should see either Vic Sirelson in Blacker, Caltech's national representative, or Wes Hershey in the YMCA office.



—Page House News Bureau

Page House's Interhouse Dance pride and joy, a monstrous waterfall over the lounge roof. A minor crisis was encountered when the polyethylene sheet protecting couples walking under the fall split and flooded the passageway, but emergency repairs saved the evening, and the lounge.

The Critical Ear

by
rickerman

This column is the first of a weekly series which I hope will be continued by the Tech, even though the "ear" may be rather uncritical at times. Each week I will try to review one record in detail and it will come from either the jazz, classical, or folk music which is newly available at the local emporiums. This week I will have a look at Dave Brubeck's *Time Further Out*, a Columbia record numbered CL 1690 (monaural) CS 8490 (stereophonic).

But first a word about the local emporiums. The local stores are four in number. Of these, one is really good and the other 3 are highly priced. A&H Discount Records across from Dow Radio on Colorado Boulevard (1766 East) is by far the best shop around. If the old guy doesn't have it, he will get it as fast as the distributors get it. The other 3 that I know are the Canterbury Record Shop near Lake and Colorado (805 East C.), Berry and Grassmuck at 927 East Colorado, and Duford-Haiser near Los Robles and Colorado (463 East Colorado). If you have a car and/or can get out of the local area, some other parts of town have better prices which may be worthwhile if you buy records in 25 dollar lots. If you are hot for a record RIGHT NOW, try Walach's Music City at Sunset and Vine in Hollywood (not in L.A.), but you will really have to pay for it. Watch out for played records at Duford-Kaiser and Canterbury (I think; their summer policy was not good). A&H has no listening equipment. Berry and Wallach's have demonstration records and sell from sealed stock, the ideal policy to my way of thinking.

"Brubeck" is a name that everyone in the jazz field respects for Dave and his now famous quartet have led the field in brilliance, imagination, and most recently some far out time experiments which may mark a new exodus for the jazz idiom. His latest trial balloon, *Time Further Out* is a logical extension of *Time Out* (Columbia CL1397-CS8192). His style has become more relaxed in the new album, however, and the overall quality is superior to the first experiments.

Of course, *Take Five*, which made the "hit lists", Desmond's composition in 5/4, is outstanding on *Time Out*—a comparison with each selection on the new

collection may well be unfavorable. But the average is better. All the new ones are Brubeck's compositions.

"It's a Raggy Waltz" (3/4) leads off side one and sets the mood right away. Desmond's sax solo is perfection; Brubeck's piano is very fine. The notes on the album jacket (by Brubeck) are very significant for this selection. Note the nice key change about a fourth way into Dave's solo.

"Bluetie" (3/4) starts poorly, but Desmond gets in there and saves the day. Dave's solo sounds like Ahmad Jamal on this one, what with Desmond silent for the entire middle period. As a whole, this one is not outstanding, however.

"Charles Matthew Hallelujah" (4/4); but 4/4 is standard jazz time! Oh well. Typical Brubeck, even if it is a little more effervescent.

"Far More Blue" (5/4) really gets through. Unlike "Take Five" which was somewhat monotonous with Brubeck's vamp, this piece places the anchor with Wright in the bass where it belongs. Once again Brubeck surprised me with more than usual piano work—all very fine, I might add.

"Far More Drums" (5/4) starts off side two with the same tune used on "Far More Blue". amount of tune is down. This is Morello's piece completely. Try to figure out the foot cymbals beat and you will go mad (I gave up the third time through). I feel that this one went too far with the drums, but I am not one for an all drum piece, so this may be unjust. Joe is okay, but I wouldn't miss it, had it been omitted.

"Maori Blues" (6/4) has Brubeck sounding like Erroll Garner in parts, and it is his piece throughout. Better than the second and third selections; to my ear.

"Unsquare Dance". (7/4) introduces hand clapping and Joe Morello/Eugene Wright in fine fashion. Too short though, and I am beginning to miss Des-

Registration Opens For Next Term PE

Registration is now open for second term PE. Students are advised by the PE department to register for PE now so as to be sure to get the sport of their choice. Bowling and golf have not yet been scheduled. Meetings are set to discuss the best time for these classes, as mentioned later in this article.

The following PE classes will be offered second term (see the coach in charge for enrollment): Badminton, 11 and 1, Nerrie in charge; basketball at 2, Preisler in charge; body conditioning at 2 and 3, Nerrie in charge; gymnastics at 2 and 3, Jensen in charge; lifesaving at 11, Emery in charge; swimming at 2 and 3, Emery in charge; tennis at 2, Lamb in charge; volleyball at 4, Nerrie in charge; and weight lifting at 2, 3, and 4, LaBrucherie in charge. Interhouse sports for second term will be football, track and field, and volleyball.

Those interested in bowling are invited to attend a scheduling meeting to be held next Monday, December 3, at 4 p.m. in the lecture room at the gym. Those interested in golf should contact Coach LaBrucherie any time between 11 a.m. and 4 p.m. Attempts will be made to schedule these classes at a time convenient for those interested.

mond's sax. A good rhythm piece.

"Bru's Boogie Woogie" (8/8) beat it Daddy, eight to the bar, but where did you hide Desmond? I can't really complain, Bru has really got ability on that piano—a fact which has been too much concealed on past albums. The tune is cute, although the selection is a little too short.

"Blue Shadows In the Street" (9/8) a very unusual composition which masks its odd time by using a repeated triplet figure, and using it in groups of four in some places. This is the longest selection on the record and presents a fine trio (Desmond plays a total of 25 bars) which is definitely in the style of Ahmad Jamal, or I will have to buy more Jamal.

Anyway, the ending of the album is very suitable and is quite polished. As a whole, once again I will say that Brubeck's piano is more available on this album, and this is good. The selections, however, are in general too short. This is particularly true if you are accustomed to the long ten minute improvisations which he makes in *Jazz: Red Hote and Cool* (CL-669).

So much for jazz. Two other albums which I can recommend are the latest Horowitz piano recordings (on RCA Victor, I think) for classical tastes, and for the folk music bugs I might suggest the Chad Mitchell Trio's *Mighty Day on Campus* (Kapp-ung-K 1262 KS 3262).

Next week I'll hit the new von Karajan recording of Holst's *The Planets*.

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Work Offered For Idle Frosh

Preregistration time has arrived again, and many frosh may be disappointed to find a three hour gap in their schedule in place of graphics. However, this gap can be filled with something for those who don't wish to sleep or play bridge, recommends the Educational Policies Committee.

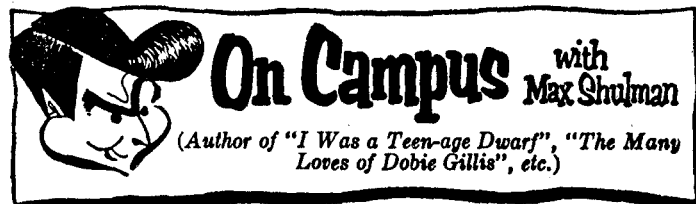
The EPC has two suggestions for the frosh. The first suggestion is frosh honors work.

The second suggestion is Econ 4a. This course is 6 units; but,

although the frosh might not believe it, this still leaves them far below the maximum of 58 units. Also, those that don't take the math option must take Econ 4a anyway.

To sign up for Econ 4a, a frosh should find a section that meets when he has gaps in his schedule. These meetings can then be divided between two sections if they have the same teacher.

Interested frosh should sign up in 119 Throop.



HAPPY TALK

As we all know, conversation is terribly important on a date. When lulls in the conversation run longer than an hour or two, one's partner is inclined to grow logy—even sullen. But occasionally one finds it difficult to keep the talk going, especially when one is having a first date with one. What, then, does one do? If one is wise, one follows the brilliant example of Harlow Thurlow.

Harlow Thurlow prepares. That is his simple secret. When Harlow is going to take out a new girl, he makes sure in advance that the conversation will not languish. Before the date, he goes to the library and reads all 24 volumes of the encyclopedia and transcribes their contents on his cuffs. Thus he makes sure that no matter what his date's interests are, he will have ample material to keep the conversation alive.

Take, for example, Harlow's first date with Priscilla de Gasser, a fine, strapping, blue-eyed broth of a girl, lavishly constructed and rosy as the dawn.

Harlow was, as always, prepared when he called for Priscilla, and, as always, he did not start to converse immediately. First he took her to dinner because, as everyone knows, it is useless to try to make conversation with an unfed coed. Her attention span is negligible. Also, her stomach rumbles so loud it is difficult to make yourself heard.



So he took her to a fine steak house where he stoked her with gobbets of Black Angus and mounds of French fries and thickets of escarole and battalions of petit fours. Then, at last, dinner was over and the waiter brought two finger bowls.

"I hope you enjoyed your dinner, my dear," said Harlow, dipping into his finger bowl.

"Oh, it was grandy-dandy!" said Priscilla. "Now let's go someplace for ribs."

"Later, perhaps," said Harlow. "But right now, I thought we might have a conversation."

"Oh, goody, goody, two-shoes!" cried Priscilla. "I been looking everywhere for a boy who can carry on a intelligent conversation."

"Your search is ended, madam," said Harlow, and pulled back his sleeves and looked at his cuffs to pick a likely topic to start the conversation.

Oh, woe! Oh, lackaday! Those cuffs on which Harlow had painstakingly transcribed so many facts—those cuffs on which he had noted such diverse and fascinating information—those cuffs, I say, were nothing now but a big, blue blur! For Harlow—poor Harlow!—splashing around in the finger bowl, had gotten his cuffs wet and the ink had run and not one word was legible! And Harlow—poor Harlow!—looked upon his cuffs and broke out in a night sweat and fell dumb.

"I must say," said Priscilla after several silent hours, "that you are a very dull fellow. I'm leaving."

With that she flounced away and poor Harlow was too crushed to protest. Sadly he sat and sadly lit a cigarette.

All of a sudden Priscilla came rushing back. "Was that," she asked, "a Marlboro you just lit?"

"Yes," said Harlow.

"Then you are not a dull fellow," she cried, and sprang into his lap. "You are bright! Anybody is bright to smoke such a perfect joy of a cigarette as Marlboro which is just chock full of yummy flavor, which has a Selectate filter which comes in a soft pack that is really soft, and a Flip-Top Box that really flips, and which can be bought wherever cigarettes are sold in all fifty states and Duluth . . . Harlow, tiger, wash your cuffs and be my love."

"Okay," said Harlow, and did, and was.

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The makers of Marlboro cigarettes, who print this column at hideous expense throughout the school year, are very happy for Harlow—and for all the rest of you who have discovered the pleasures of Marlboro.

CHM Dumps Gridders Bocklage All-SCIAC

The Caltech football team lost its final game of the year, 27-6, to Claremont-Harvey Mudd at the victor's field on Saturday, November 17. This gave Coach Bert La Brucherie's footballers a 1-6 overall record, while they were 0-3 in conference play.

Things ended in a happy note as alternate team captain Joe Bocklage was placed on the All-SCIAC First Defensive Team. Bocklage, a three year letterman, played center on offense and called the signals on defense as linebacker.

In the CHM game as in previous contests, Tech played a tough first half as the score was knotted 6-6 at the intermission. Then CHM exploded for three touchdowns in the second half to easily take the game.

Caltech scored first in the second period of play. A CHM fumble was recovered by the Caltech defense on the Stag's thirty two yard line. Jon Evans carried the ball down to the eighteen in two plays. On a crucial fourth down play during the next series of downs, Bob Liebermann ran around right end for five yards, making a first down by a foot. The Beavers scored on the next play on a run by Evans.

The Stags took the ball on the kickoff and marched downfield in seven plays for their first score to make it 6-6. They failed on their conversion attempt.

Claremont dominated play throughout the second half, as they scored twice in the third quarter and once in the fourth to give them the victory.

In addition to Bocklage there are several other seniors that will be missed on next year's

team. Team captain Jack Arnold, who was tackle as a sophomore but shifted to end last year, was tough on both offense and defense. Although one of the smallest guards in the league, Truman Seely was fast enough to block out opponents twice his size. Other seniors on the squad were George Soule, Larry Ruff, Ron Koretz, and Warren White.

Despite the loss of this group of seniors, the outlook of next year's team is good with fifteen returning lettermen and several outstanding freshmen.

SCIAC Standings:

Whittier	3	0
Redlands	3	1
CHM*	2	2
Occidental	2	3
Pomona	2	3
Caltech **	0	3

*Did not play Whittier
**Did not play Whittier and Redlands

Soccer Team Wins Two, Loses To Pomona

After easily winning against Riverside and Redlands, Caltech's soccer team lost to Pomona the league championship, while Tech finishes out the season in the third spot.

Three weeks ago UC Riverside traveled to Caltech and was beaten by the locals 8-1. Riverside showed good individual strength, but they lacked the teamwork necessary to provide the Beavers with much of a battle. The Caltech forward line worked well in scoring eight goals, while the UC Riverside team scored their only point on a penalty shot. The next week at Redlands, Caltech had another easy game in winning 6-1.

The Beavers traveled to Pomona the following Tuesday only to lose 1-0 in a crucial game. The game was played on a football field, much narrower and longer than the regulation
(Continued on page 5)

Basketballers Face Uplands In Opener

BY THOR HANSON

Tomorrow night the varsity basketball team opens its season in a game at Uplands College. Caltech hosts Cal Lutheran for the first home game on Saturday night.

Coach Ed Priesler reports that the team has shown much improvement since practice started five weeks ago. With four more players reporting since the conclusion of football practice the team roster has been increased to twelve players.

Last week the varsity scrimmaged with Pasadena Nazarene College, who always manages to field a pretty fair basketball team. Although no score was kept, the Beavers held their own until late in the third period when team captain Tom Bopp injured his knee and had to leave the game. This injury caused Bopp to miss several days of practice, but it is hoped he will be ready for the Uplands game.

The center spot has been a problem since no one on this year's squad has had experience at this position before. Bopp has been playing the post and looked very impressive in the scrimmage with Pasadena Nazarene.

The starting lineup for the Uplands game will be Mike Pearlman and Jos Weis at forward, Gary Dahlman and Volker Volk at guards, and Bopp at center. If Bopp isn't ready to go, Dick Burges will start at the center position.

The freshmen team gets its first test of the season on Saturday night as they travel to Rio Hondo.

Webmen Lose to Oxy; 3rd in League

BY DAVE OLLIS

Tech creamed Redlands two weeks ago Tuesday, but lost the big one to Oxy the following Friday and ended the season in third place with a 5-3 league record.

The Bulldogs, beaten 9-6 in the first meeting, split their strength and ran two platoons against the Beavers. The visitor's lacking defense coupled with a split offensive strength produced only three goals, while the Beavers sailed home with sixteen.

In the last game of the season, Caltech lost to Occidental in double overtime play by the score of 10-8. The Tigers have defeated the Beavers in overtime games in both encounters this year. The tense and hard fought game was characterized by tight defensive play during the first four quarters.

Tech drew first blood with a goal by Chesebro in the first period. Occidental countered with a goal by Steve George and another by Wiggins.

The Beavers' defense stiffened in the second quarter and held the Tigers scoreless; Chesebro put another ball past the Oxy goalie to knot the score at 2-2 at halftime.

In the next quarter, each team led at different times but scored two apiece to keep the game tied at 4-4 with one quarter remaining.

The Beavers scored again early in the fourth period to take the lead at 5-4, but with a minute remaining Oxy scored the point which sent the game into overtime.

Oxy dominated the first overtime period with three goals as the Tech defense could not contain Oxy's forwards. Trailing by three points, 8-5, Chesebro and Manning each tallied in the second overtime period to bring the Beavers within a point of evening the score. Then Oxy's Buckingham nailed his fourth of the day for the Tigers and set the score at 9-7, Occidental.

Manning tallied again to make it close, but Buckingham returned with the final goal of the contest to give Oxy the game, 10-8, and the conference title.

Final SCIAC Standings:

1. Occidental	7-1
2. Pomona	6-2
3. Caltech	5-3
4. CHM	2-6
5. Redlands	0-8

Once again, Bruce Chesebro was named to the All-Conference team, his third such honor in as many seasons of varsity play. Mike McCammon, junior, was voted to the All-League second team.

Frosh Team

The Beaver frosh followed


Jim Eder—21:32; 26. Tom Oberjat—22:04; 28. Louis Corl—22:19; 40. John Caywood—24:15; 46. Dennis Holt—24:50; 48. Ed Lee—25:31; 50. Dick Essenberg—25:47.

FINAL TEAM SCORES:

1. Occidental—15; 2. Pomona—55; 3. Whittier—74; 4. Redlands—114; 5. Claremont - Harvey Mudd—118; 6. Caltech—128.

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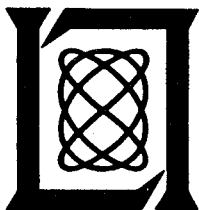
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From Other Campuses

by Richard Karp

"Last Sunday morning," reports the MIT Tech, "travelers on Bay State Road saw a strange sight—a house decorated with blue and pink toilet paper and missing a front door."

"Somebody had raided the Beta House during the night. The front door had been taken off its hinges and carted away; it was still missing Monday night."

"Bows and streamers hung from the fire escape, which goes up the front of the house, from the trees, and from the porch columns."

"Tom Gerity '63, Beta House President, thought that two groups had done the work. He had no comment when asked who had taken the door, saying only that he hoped 'to have the door back before the winter sets in.'"

Literary Rag Problems

The College of William and Mary Flat Hat reports troubles with their campus literary magazine. The magazine was intended to be entitled "Voices:

the William and Mary Review." Unfortunately, two weeks before the scheduled issuance of the magazine, a professional magazine entitled "Voices: A Journal of Poetry" requested that the W & M magazine get itself a new name.

The magazine, which evidently had about 100 pages of material, was not out of the woods yet. The same week that it was discovered that the name of the magazine would have to be changed, the managing editor resigned, stating that he felt that under the present setup his services to the magazine were no longer necessary. The magazine, which is to appear in five days, will be the first issue in its new form. Shades of "Totem!"

RPI RF

Right after the Cuban blockade was announced by President Kennedy, students at Rensselaer reacted. The Rensselaer Polytechnic reported that "Last Thursday, patriotic students of RPI attempted to aid the United States quarantine on Cuba by

erecting a Rensselaer rocket outpost. . . .

"Approximately fifteen students allegedly reported to be freshmen, tried to place a (borrowed) Army Honest John missile in firing position at about 11 p.m. Wednesday; however, due to the ever vigilant campus police force, the students were unsuccessful. Later, at about 1 p.m., the students accomplished their mission despite well-planned reconnaissance patrolling by the campus police."

The missile was aimed in the general direction of Cuba, but at last check it had not yet been fired.

Incidentally, RPI has now lost 25 football games in a row. Their last defeat was at the hands of Worcester Polytechnic Institute by a score of 40-0. In a letter to the editor, one student who had his name withheld compared the football team to an old car: "Suppose a man had a car on which the payments and insurance were expensive, but the car was not usable due to a bad battery. He should either replace the battery and get use out of the car or get rid of the car. . . .

"I sincerely doubt that enough can be done and therefore suggest that football be abolished as a varsity sport."

Last Frosh Diner's Club Held Monday

The last in the current series of YMCA freshmen Diner Clubs will be held this Monday evening at 6:30 p.m. in Chandler Dining Hall. The speaker will be Dr. Robert Sinsheimer, professor of Biophysics.

The Club has had several

varied lectures, including Linus Paulings views on the Cuba situation on the same date that the blockade of Cuba was announced.

Sinsheimer's topic in this last Diner's Club will be "The Field of Biophysics."



Goldwater Panel

(Continued from page 1)

ment is the "insatiable desire for power" among some men. Wednesday morning were J. C. Simpson, chairman, Professor Peter Fay, Ben Saltzer, Art Robinson and Mike Gazzaniga. To a question on his objection to medical clinics run on a state level similarly to schools, Goldwater said these would not be objectionable on grounds of Socialism, because the individual states could not create a Socialistic condition under the controls of the Federal Government. Social Security is not morally wrong, he stated, but is financially unsound, which will eventually cause a change in the system.

Debt Can Cause Inflation

According to Goldwater a philosophy on the national debt that feels that "we owe it to ourselves" is wrong because a large debt will lead to inflation and loss in the confidence of the dollar by other nations. Goldwater stated that a need exists for clarification by the Supreme Court of the relationship between the tenth amendment to the Constitution which guarantees the rights of the states and the fourteenth amendment which might limit these rights.

In his Tuesday afternoon discussion Goldwater stressed the need for manned bomber, namely the long postponed RS-70, as a complement to missiles. His reasons were that a manned bomber could first find the tar-

(Continued on page 6)

More Soccer

(Continued from page 4)

soccer field. This greatly affected the play of the Tech wingers who are normally the strong points of the Beavers' forward line. However, Pomona, being used to the shape of the field, had a close-packing defense well suited to the conditions.

Pomona scored the game's only goal in the first half. During the rest of the first period the Sagehen's offense continually pressed, but Tech's defense kept them from scoring. Following the intermission Caltech's offense forces organized and put much pressure on the Pomona goalie. However, by crowding the goal's mouth, the Pomona defense held.

The soccer team closed out its season Saturday morning in a game with UCLA at Tournament Park.

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Recently Pacific Telephone conducted a training course on mathematic sampling. Bill Harpst (B.S.I.E., 1956, M.B.A., 1960) prepared and taught it.

Since joining Pacific Telephone, Bill has accomplished much. Even on his initial assignment in the Traffic Department he developed new approaches sound enough to be adopted by his own and other districts.

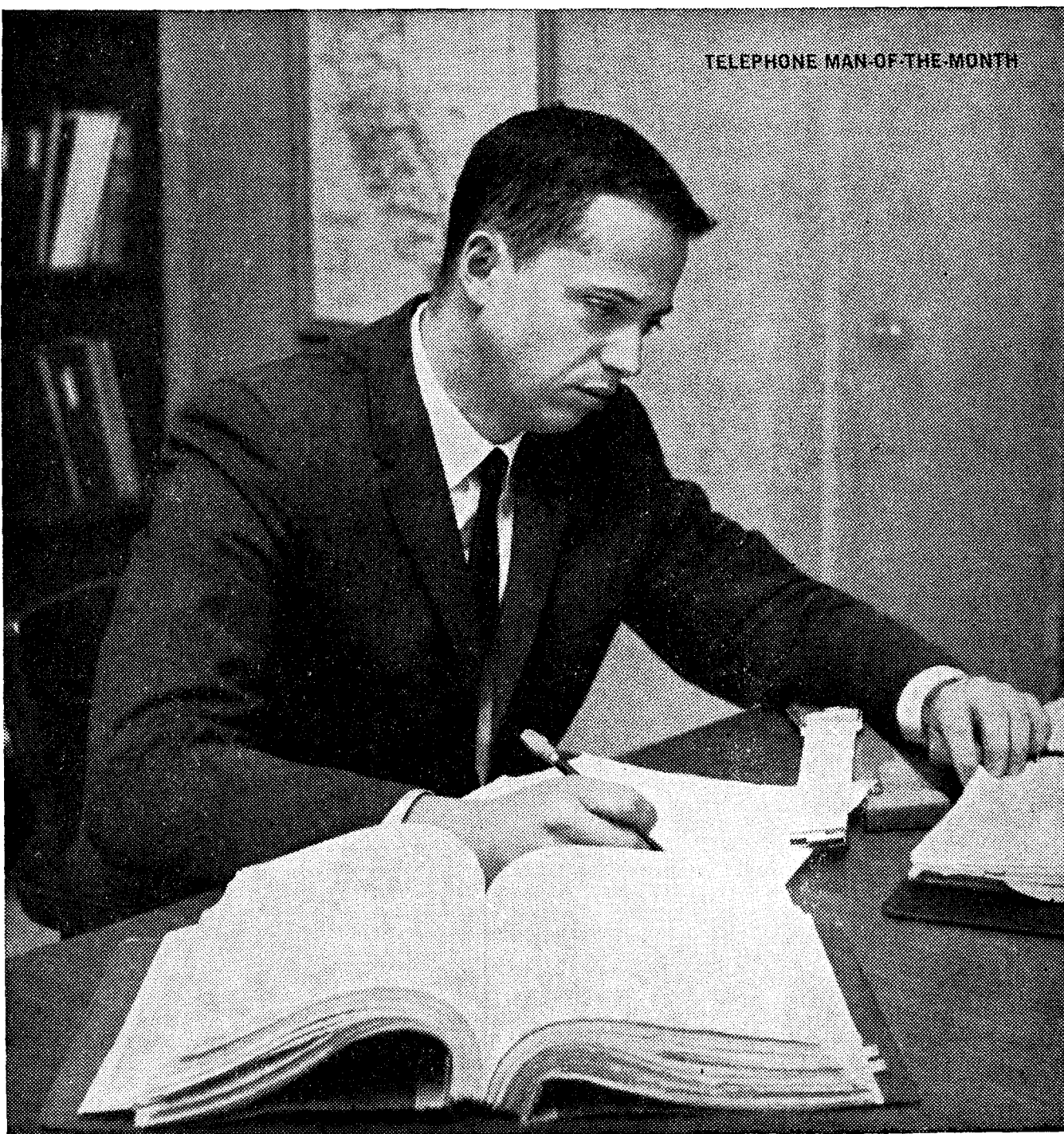
He showed his supervisory talents when he stepped in

during a critical period and managed an accounting office with a staff of 40! On top of all this, Bill has proved himself a writer. He recently prepared a brochure to introduce new engineers to traffic engineering concepts.

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graduate rattle

You have heard it said that the cleat is mightier than the pen but it is written that those who live by the cleat must also die by the cleat. Right, Ricketts and Dabney?

In making the tour of the seven undergrad houses for Interhouse, I was most impressed by Dabney's setup—the world's wildest music overseen by a huge statue of Mike Fournery. My date, however, was most impressed by Ruddock's Little Egypt with its huge statue of Snaglepuss. Other grads have cast their votes for the displays of Ricketts or Blacker. The sight I'm sure to remember the longest is Lloyd's big bird. It's already stolen the show in one

of my nightmares.
Grad Sports News

While most of the world was sleeping last Sunday morning, the Mosher Mashers accepted Keck's soccer challenge and the Kittens exited stage left, kicking all the way—mostly kicking air. The game was closer than the score (whatever it was) indicated, though, and there's a rematch scheduled for dawn some day next week.

Coronations At Caltech?

Experimental INA Party Number Three is coming up Friday and although it won't be the rustic vacant house party originally planned, it promises to be a little different than previous ones in that several contests will be held. There won't be a pig pool, but one can expect to see an unconventional dance contest, a coronation, and a few other things which it might be unwise to mention here. Best of all, a reliable source has notified the committee that none of the girls attending has a date for New Year's Eve yet.

Goldwater Ideas

(Continued from Page 5)

get then use precision bombing and that the "black boxes" could never replace man because "eyes and brains have to go in war-time." He sees a need for a variety of aircraft and "long term planning in aircraft." He urged an increase in the efforts of using space for military purposes.

Brinkmanship Called Effective

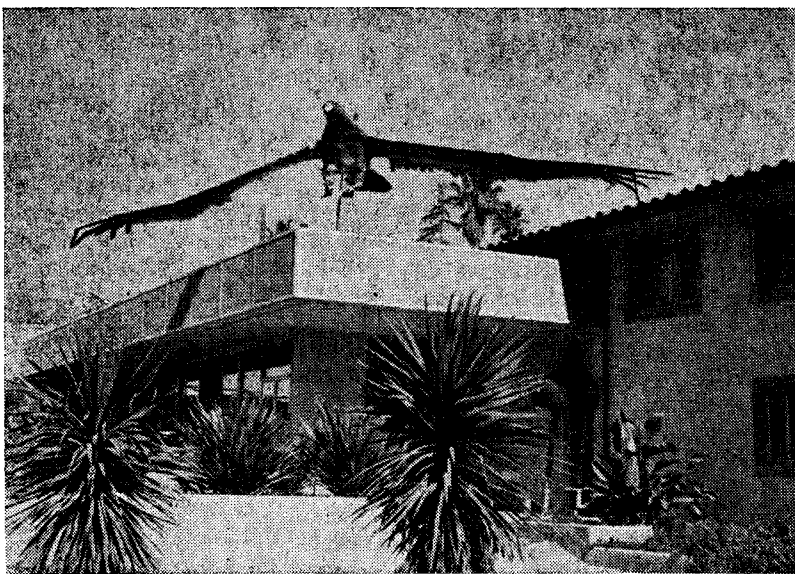
Goldwater asserted that "brinkmanship is effective" as demonstrated in the recent Cuban crisis. He sees that Kennedy has changed his policy towards Communism. Goldwater believes that those presidential advisors who think that Communism is going soft should be dismissed and a policy of "constant firmness" should be used. Goldwater feels that to have victory over Communism the U. S. must "stamp out ideas by our ideas which are better."

In comment on a tax cut, Goldwater stated the government should cut spending. A tax cut now might lead to a 20 billion dollar deficit which would put this country into trouble, claims Goldwater. In connection with the segregation problem, he believes that "laws will not correct segregation" and that only when the people realize that segregation is wrong will discrimination of all types be eliminated. He advocated enforcement of the right to vote among Negroes but differentiated between the civil right of voting and the liberty of education. A civil right is a right guaranteed by law.

Goldwater is the author of two books, *The Conscience of a Conservative* and *Why Not Victory?* He calls for policies which have reality in the light of history and shuns those actions which prove to have been unsuccessful. He has been called ultra-conservative by liberal factions, but considers himself as one who does not want to go back to the past but forward with the enlightenment of the past.

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—photo by Lee Molho

A gold and red Roc with a 40-foot wingspread soars over the entrance to Lloyd's courtyard and Ali Baba's cave. Treasure cache featured a jewel-filled chest with Zorro's Z carved in the lid.

Babitz Presents

"Vanishing Los Angeles," an exhibition which includes about 40 historical drawings of the Los Angeles area, is on display in Dabney Lounge. It will remain on view through November 30.

The drawings are by the Los Angeles artist Mae Babitz. Several of the buildings pictured have long since disappeared, and many of them were drawn as they were being demolished. Mrs. Babitz worked on a card table set up on the spot.

The exhibit is open to the public Monday through Friday from 9 to 5, Saturday from 9 to 12.

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