



All work
and no jack

California Tech

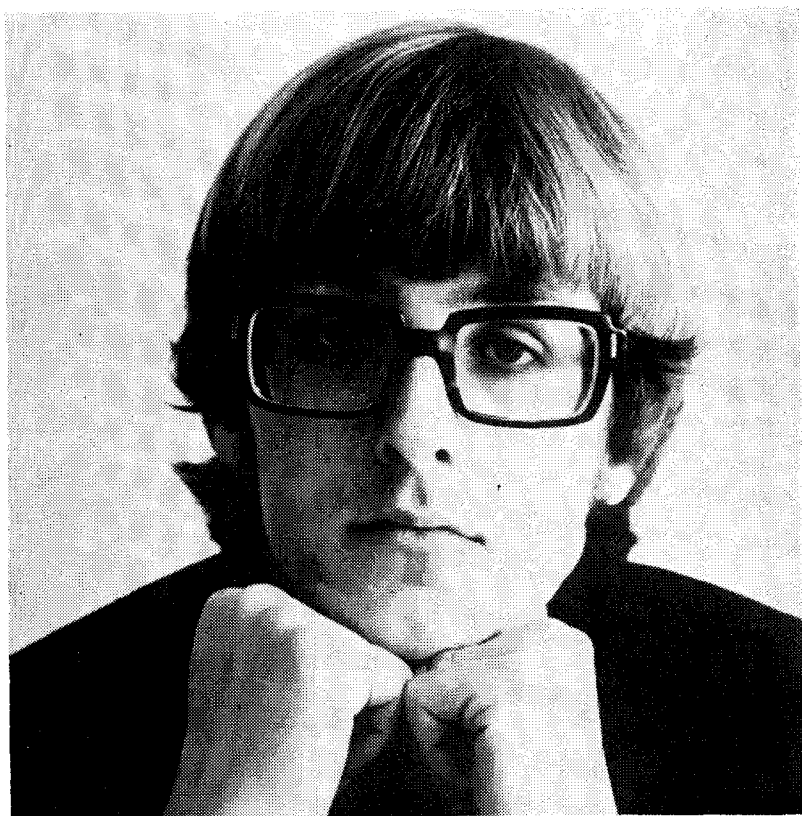
Associated Students of the California Institute of Technology

makes play
a dull joy.

Volume LXIX.

Pasadena, California, Thursday, December 7, 1967

Number 11



Is this what one of Caltech's future coeds will look like?

Female Admissions Late But Inevitable

by Jim Cooper

The administration of the California Institute of Technology is of the opinion that women should be admitted to the Institute as undergraduates. The big question remaining is exactly how and when women undergraduates should be admitted. This is the consensus of the opinions garnered by interviews with various administrative heads. Specifically, the administrators questioned about their opinions were Dr. Lee A. DuBridge, President; Dr. Robert F. Bacher, Provost; L. W. Jones, Dean of Admissions; Dr. Peter M. Miller, Associate Director of Admissions; Paul C. Eaton, Dean of Students; Foster Strong, Dean of Freshmen; and Dr. Robert A. Huttenback, Master of Student Houses.

The response to the question, "Do you think Caltech should eventually admit women as undergraduates?" was unanimously affirmative among the administrators interviewed. Dr. DuBridge stated that he would certainly support the faculty's recommendation that women eventually be admitted. Dr. Miller stated that he was pleased at the idea that women may be admitted. Perhaps the view of the administration on this question could best be summed up by a statement made by Dean Jones

in which he said, "We want to get the brightest people we can get, and certainly some of the brightest people are women."

Admission criteria

The responses to the question, "What will need to be done to accomplish the admission of women?" fell into roughly two major areas of concern. The first of these was the question of admissions procedures and how many would constitute an "ideal" number of students. The strongest consensus on this question was that there would be no changes in the academic admission procedure, and that any woman entering Caltech would enter on the same basis as her male counterparts. Further, from the admissions standpoint alone, there would have to be at least a two-year delay from the time that any final decision regarding the admission of women was made until women were actually admitted. Dean Jones was of the opinion that even if the decision to admit women were made tomorrow, it would still take until September, 1970, before any women could be admitted. Dean Jones stated that it was already too late to have any hope of having women enter Caltech in September, 1968, since it is too late to notify any women who might be interested in admission to

have test scores, etc., forwarded to the Institute. He also stated that even another year would be required to insure that enough high schools had been informed of the change.

The administrators also believe that any program to admit women to Caltech would in some way have to insure receiving a large

(Continued on page 5)

Christy Recalls Project Work

Dr. Robert F. Christy was recently asked about his participation in the atomic bomb project during World War II. The editor of Panorama, Mr. Richard Christiansen, asked Dr. Christy and other top scientists the following question: "If you had known what you now do about the uses to which atomic energy would be put would you have agreed to work on the project?" The scientist's answers will be used in an article commemorating the twenty-fifth anniversary of the beginning of the Manhattan Project.

Dr. Christy answered the question in the affirmative. In his explanation he stated, "Basically, the present uses of atomic energy are not significantly different from what was envisaged at the start of the Manhattan Project. I was made aware of the anticipated uses, and in particular atomic weapons, when I joined the project." He further said that the developments of

(Continued on page 5)

Officers Comment On Ascit Research

by Alan Stein

Are the Associated Students of Caltech really in favor of an ASCIT Research Project, or hasn't anyone really been paying attention to what they say? Some students have been telling Mike Garet, chairman of the Coordinating Committee for the project, that "there is too much 'hard sell' connected with the project," or "The project is too big; too many people will have to spend too much time with it." Others have said that the project is drawing workers away from the Houses, that it boils down to being a House member or a project worker. Besides the statements of a few students, such as Joe Rhodes, one hears very little official opinion expressed about the project.

Norman Whitely, Lloyd House president: I think the project is a great idea! Something different. My only worry is that it might be too big. The students not directly connected with it don't seem to think about it at all.

Rob Drew and Gene Smith, president and vice president of Page House: The project is good, but it's too ambitious. — and excellent idea, but its scope is too grand. I don't think it hurts house spirit.

Lee Johnson and Ken Kahn, president and vice president of Blacker House: Some people seem to be rather put off by its size: they're afraid of a bureaucracy forming and hesitant about

tangling in red tape. They may be convinced later that this need not happen. — The project is very, very ambitious, a bit too ambitious. Something more reasonable should have been chosen, such as an Arroyo reclamation project. A specific portion of the smog problem might be easier to handle.

(Continued on page 5)

Ghettos Need Industrial Aid

U.S. Senator Thomas H. Kuchel (R-Cal.) concluded in a Caltech YMCA-Sponsored speech last Thursday night that the solution of the ghetto problem lies in the cooperation of business and industry with the War on Poverty to increase opportunities for ghetto-dwellers.

The two-hour speech, entitled "The Ghetto: Brinkmanship or Commitment?", emphasized the exposure of the general public to the conditions of the ghetto by first-hand observation. The Senator was convinced that no longer can treatment of the ghetto be merely "brinkmanship," that is, paying attention to its problems only when it erupts.

According to Senator Kuchel, the only solution to the "Blight of the American City" lies in the involvement of government, business, labor, ghetto residents, and complete outsiders. He condemned black militarists, calling them "incendiaries," and pointed out that uprisings set back any

forward progress being made.

Problem for youth

Kuchel also attacked the hippies for their lack of commitment to the ghetto problem. The average age of the population in Watts, he pointed out, was 14, demonstrating that the ghetto is really "the problem of tomorrow's citizen, much more than it is of today's." Repeatedly he called for the dedication and support of today's youth.

Emphasizing the financial aspect of the situation, the senior Senator from California explained that only two percent of total growth in the U.S. is within the city proper, showing the reluctance of industry to settle there thus far. "Deteriorating housing" is becoming more prevalent, and fighting poor housing costs tax dollars. And Kuchel said that ghetto-dwellers are high-cost citizens in terms of the money they drain from federal and state welfare programs.

But the expenditures, the Senator felt, can no longer escalate to meet the demands of a growing ghetto population, for the cities have just about reached the limit of their taxing ability. Similarly, "The Federal Government," said Senator Kuchel, "is neither rich enough, personal enough, or fervent enough to shoulder the burden."

Thus we must look elsewhere, the Senator stated, for help. This elsewhere, according to Kuchel, is business and industry.

Since the main idea of the War on Poverty is to increase the self-sufficiency of the poor, Kuchel saw no reason against industry's cooperation. Listing the steps taken by the present minority in this direction, Kuchel praised the industries that had already cooperated under these laws to help the ghetto dweller help himself. The answer to the problem, he said, is thus to increase opportunities.

Notices

BEETHOVEN'S BIRTHDAY

The Caltech Citizens for Beethoven Committee reminds everyone that Saturday, December 16, is Beethoven's birthday and urges listening to Beethoven symphonies, concerti, quartets, etc.

FORGET YOUR PROBLEMS

Try 'Go' at the Caltech Go Club Friday at 4 p.m. in the Y Lounge.

RELAX!

Folkdance with the Caltech-Pomona Folkdance Group Sunday evenings 8-11 p.m., Renwick Gym at Pomona College. Lots of female partners are available.

PARTY

Continuous entertainment at the Westward Ho Restaurant on Friday, December 22.

Editorial

Merry Christmas

The onset of first term finals is a sure sign that the holiday season is upon us. Families will reunite, the cares of ordinary life will be forgotten, and the American industrial complex will receive its annual shot-in-the-arm from Christmas shoppers.

Meanwhile, 10,000 miles away, 500,000 not-so-lucky Americans will be hunting and destroying "dissident" Vietnamese. This year's seniors are scared silly that they might soon number among them, especially those whose II-S draft deferments expire in June, not September.

But this fear is premature. Most likely, the Administration in Washington will decide that graduate students in mathematics, physics, chemistry, and engineering should continue to receive deferments. This provides an interesting commentary on the American system: those whose professional training has potentialities for producing a better war-oriented technology get deferred; on the other hand, those who are trained in the liberal arts and social sciences—those whose training makes them best-suited for promoting peace—get drafted.

Around the corner

It is of course not necessary to travel to Vietnam to find not-so-lucky Americans. One merely has to travel to the nearest sizable city. But we recognize that the American technocracy will not profit nearly so much from a War on Poverty as it does from a war on peasants. But this is not true. Experts estimate that trillions of dollars are required to make America's cities livable. But then the return on such an investment, though of far more value, would not accrue as quickly as does the return from "hot war" investments.

Senator Eugene McCarthy's candidacy for the Democratic Presidential nomination provides that party with an alternative if the Democrats desire to win in 1968. For unless something radical happens before November vis-a-vis South Vietnam, President Johnson will be unable to reply successfully to Republican candidates when they remind America that the only thing Barry Goldwater did wrong in 1964 was to tell the truth.

Even Teckers will be able to get involved in the heated politics of the coming year. In June a crucial primary election will occur in California. Precinct walkers will be needed to help sway the voters of the nation's most populous state. Will students take the opportunity to do something meaningful for a change?

Americans will soon be a home for Christmas dinner, assured that peasants are dying in Vietnam, that the military-industrial complex is prospering, and that citizens are being denied their rights here. Eat hearty, America.

—Les Fishbone

Letters

Snide Comments Unwelcome

Editors:

Having worked on a student publication for almost three years, I can justifiably say that I know the amount of work it takes to turn out a good paper. A student must either truly enjoy the journalistic trade or be strongly committed to the ideology behind student publications in order to stick with the grueling task of meeting the deadline each week. If there are enough students around who meet either or both of these qualifications, the school's paper will be a good one; otherwise, the effort will be futile, for a newspaper is undoubtedly a team effort, not a one-man show.

I think it is common knowledge that the **California Tech** is not exactly the hottest press release west of the Mississippi. As a staff writer for this paper, I can expect this to be the case. With a student body of only about 800 students and most of them working day and night on classwork, Caltech is not the place for a great newspaper to nest. Yet the **Tech** performs an indispensable service. Over this term it has kept the readers informed of the research project, sports events, and activities at Beckman Auditorium, just to give a few examples. Granted that the layout, the headlines, and even the articles are sometimes poor, but at two in the morning on Monday night I doubt that anyone could expect Les Fishbone to be too imaginative.

Crumbling paper

So what is my complaint? It is this: Every Thursday when the **Tech's** latest issue arrives, I notice the same inane snickers from people around me. Every Thursday almost half of the **Techs** are left with no readers, while everyone grins and quips, "Who reads that crummy pa-

per?"

This is not a blot on the paper; it is a blot on the student body in general. When the **Tech** performed its "experiment" with the phony articles a while ago, I heard several people laugh and comment that all that was proved was that nobody reads the paper. So who should be ashamed of that? Not the **Tech**, for she is still deluged with subscriptions, and advertisers still back her. Clearly it proved that those same people who laugh every Thursday are uninformed, apathetic, and selfish with their time.

The only request I have is a challenge. I challenge those in the student body who are so critical to take a pen in their hands some weekends, rather than a girl, a beer, or a pipeful of grass. And if they — "the most brilliant students in America" — are too lazy or selfish to do so, then I'd like them to kindly shut their cynical traps when I'm around.

Tom Carroll, '71

Though we discourage such griping from our overworked staff members, and though we do not agree with everything Mr. Carroll says, he is correct in implying that the **Tech** welcome the efforts of interested students. Unfortunately, only about ten people can really be called active staff members.

We have many ideas for stories to cover, but we do not have the manpower to carry them out. For example, we would like to run a weekly feature column which highlights some of the many research groups on campus; the **Tech** very truly falls down on covering the things that

make the Institute great. And we are always looking for provocative columnists.

In short, if you are looking for an exciting extracurricular activity that provides generous "graft and corruption" in a short period of time, stop in at the **Tech** of **Eds.**

California Tech

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Southern California Counties Declare Peace Corps Week

The Boards of Supervisors of Los Angeles and Orange Counties have declared December 4-9 Peace Corps Week, and over 20 former Peace Corps volunteers will be in the Los Angeles area in an intensive information campaign and search for qualified applicants.

The six-year-old agency, founded by the late President Kennedy, has had remarkable success during its short history in helping developing nations to solve their problems. This success is reflected in the growth of the Corps itself — from less than 600 volunteers in eight countries in 1961, to nearly 15,000 in 58 countries at present, working in over 400 job categories.

Rapid Growth

But even this rapid growth has not kept up with requests for volunteers from developing nations. The Peace Corps estimates that next year it will receive requests for 2000 more volunteers than it will be able to sup-


ply. Part of the explanation for this is that, with experience, the Peace Corps is increasingly able to predict what qualifications lead to success overseas, and is selecting only the most highly qualified applicants.

One of the best testimonials to the success of the Peace Corps is the reaction of a group of returned volunteers to a questionnaire distributed by the Peace Corps last year. Out of 4,260 who had completed service, 94% said they would join again if they had the decision to make over.

Students who are interested in learning what they can do in the Peace Corps can talk with a former volunteer by dialing 380-4040, Nov. 27-Dec. 9. Information will be mailed on request.

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Icehouse Offers Ragtime By Patent Medicine Band

by Boule

As the noise drops an incongruous group right out of the Twenties (sort of) wanders on to the Ice House stage and prepares to direct toward the audience their interpretation of what can only now be found on old 78's ("complete with surface noises and scratches.") The Lydia E. Pinkham Superior Orchestra offers a fresh and enjoyable example of a rarely touched area of popular music, ragtime jazz. Their instruments and un-

restrained showmanship combine with their music to make a worthwhile performance.

Although Biff Rose is the next to be offered up to the audience he was absent Saturday due to marital problems (his wife was having a baby). The substitute, Bob Goodwin, is a Fresno comedian who did an excellent job, especially on such short notice. It is unfortunate that he won't be back (this month anyway).

The finale for this night of change is not a musician. Danny Cox is a musical artist. He seems to improve every time he shows up at the Ice House; this trip he offers a whole supply of new stuff. To those who enjoy good music he is even worth a night of NEXT weekend.

And for those with a lot of free time you might try the Glendale Ice House. At various times this month they'll have The Dillardards, Tim Morgan, and The Nitty Gritty Dirt Band.

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Firemen Respond As Page IH Conflagrates

by Cince

On a cold Tuesday evening last week at 10:00 p.m., members of the Pasadena City Fire and Police Departments participated in the gala wake for Interhouse '67 held by residents of Page House.

Eight units of the Pasadena City Fire Department, including the Chief's car, and six units of the Pasadena City Police Department responded briskly to an invitation allegedly extended to them by a member of either Rud-dock or Lloyd House. It seems that this said member had mistaken Page's efficient and highly expedient method for the removal of effluvia left over from Interhouse — that is, the use of a funeral pyre — to be an actual attempt to remove the effluvia of the new houses themselves.

Stupid Ashes

The fire, built in the Page House courtyard, was — as is usual when it comes to the handling of non-scientific practical matters by Techers — very inefficient in the actual reduction of Interhouse to ashes, and very efficient, in the production of voluminous quantities of smoke. It was evidently the quantities of smoke pouring through the ventilation system of the new Houses which prompted the extending of the invitation.

Unfortunately, by the time the civil service employees had arrived, the Phages had decided that Interhouse had been properly honored and, incidentally of course, that the smoke was getting to be detrimental to their health, so they had extinguished the blaze using their own devices. The civil service men were very put out by the fact that the party was over by the time they arrived, and left in a great huff half an hour later.

(Continued on page 5)

Into the Incinerator

Cooper In Personnae

by Jim Cooper

During the first term, a character called Edward B. Barrel-maker of the Mythological Institute of Theocracy has entered upon the Caltech scene through the aperture of this column. People here may have noticed a similarity between the happenings at Theoc and those here at Caltech. This similarity was not coincidental, as explained in previous columns. In any event, thousands of avid readers of this column have come to look forward to it each week, and their response had been tremendously apathetic. (How many times have I heard that word lately?)

My purpose in stepping out of character for a week, and writing as my own inimitable self, is threefold. First, I wish to keep clear the distinction between myself and Barrelmaker. After all, I am a Cooper and not a Barrel-maker. Second, I wish to make some suggestions I have for the maintenance of Caltech, and I wish to make those suggestions very clear and distinct. Third, I wish to find out if anyone actually reads this column.

To accomplish the third, I wish to make the following request of anyone who actually has read this far in the column. If you have read this far, the next time you see my not inconspicuous form — assuming, of course, you know what I look like — please begin to jump around and act generally psychotic, neurotic, or idiotic. From the number of people acting this way on campus, I will immediately be able to tell how many people read my column. (Columnist's Note to Eds.: This is a great way to conduct an ego-building poll. Just by observing behavior here on campus the week before finals — or any time for that matter — I will be able to say that my column is read by 100% of the Caltech population. By the way, please be sure you delete this before you put the paper to bed.)

To accomplish the second of my purposes, I herewith humbly offer the following suggestions:

For Dr. Leighton: Why not consider entering show business? With your humorous asides and showy demonstrations, you would

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be a natural to replace Mr. Wizard, and maybe even Professor Wonderful.

Added feature: With a successful career in show business, you might eventually be elected governor. Then, you might be able to kick-off a Caltech fund-raising drive.

One problem: How could you avoid teaching anything really significant on your show? Perhaps Dr. Feynman could give you some help in solving this problem.

For all receivers of unsolicited, junk-mail: The next time you receive any material with one of those cards or envelopes with the address of the firm on it, and the notation "First-class postage guaranteed" or "First-class Permit No. abcd" on the corner where the stamp would usually go, save this card or envelope. Next, obtain a brick or some other equally small, worthless, and heavy item and tastefully wrap it in plain brown paper. Then, take the aforementioned card or envelope and carefully attach it with scotch-tape to the package containing the brick, making sure that your name appears nowhere on it and that the address of the firm and the "first-class" notation is plainly visible. Finally, take the package and drop it off at your neighborhood post office. (Please wait until after Christmas before you try this.)

Added feature: Won't all the firms be delighted to help the post office out of its financial straits — caused mainly by second and third class junk-mail — by paying five cents an ounce for bricks?

One problem: How would you keep the Post Office Department from using the bricks to wall-up these aforementioned firms permanently? (After the firms had paid the postage, of course.)

Finally, for all freshmen: Why not consider purposely getting a zero on all final examinations? After all, if we all got the same grade, the administration couldn't do anything, and no one would fail anything.

Added feature: There would be no worries of studying for finals.

One problem: How could we keep the administration from doing anything?

P.S. MERRY CHRISTMAS AND HAPPY FINALS.

Should you drink beer straight from the bottle?

If you're on a blanket party or something, carrying along a glass is pretty clumsy. But when it's convenient, we think it's a shame not to use one. Keeping Budweiser inside the bottle or can is missing half the fun.

Those tiny bubbles getting organized at the top of your glass have a lot to do with *taste* and *aroma*. Most beers have carbonation pumped in mechanically. Not Budweiser. We go to a barrel



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Barry Goldwater Reveals Conservative Purposes

Editors' Note: The CLAREMONT COLLEGIAN of Friday, October 27, 1967, printed this very candid interview with Barry Goldwater. The interviewer, Doug Montgomery, is the editor of that paper. We reprint it here for the edification of our readers, noting that comprehensive conservative view points have not yet been represented at Caltech this year.

By Doug Montgomery

Barry Goldwater is a man who campaigned very frankly for the American presidency and, frankly, lost.

After that, the whole history becomes just a bit hazy. The Goldwater image that penetrated the national news media was one of spontaneous calls for action, usually extreme. Even Goldwater himself will admit that "had I been exposed to the same image that the average voter received, with no further information, I probably wouldn't have voted for Goldwater."

Last Tuesday, the Claremont Colleges had a chance to see if the Goldwater philosophy was any clearer at the sender's end than at the receiver's. Removed from the din of the speaker's platform and campaign rally, the COLLEGIAN was allowed to follow an unhampered line of questioning with the former senator on topics of greatest relevance to college students — and to an understanding of the Goldwater credo.

Opposes Draft

"I have sat down with Max Lerner (whom most people, I'm sure, consider a liberal) in the past and found where we could agree on many issues," he says. Yet this is a man who received the title of "arch-conservative" during the '64 campaign. His views on the draft, black power, the Supreme Court, the Mid-east conflict and other issues amplify the paradox of Goldwater's "conservative" philosophy.

The Arizonan makes no bones about opposing the draft. "There's no reason," he said, "why the draft can't be abolished and replaced with a professional military system. As long as the military remains under ultimate civilian control, we have no cause to fear corruption in a professional army."

"The draft law can't be overhauled," he said. "President Johnson appointed a committee to study the draft and make recommendations for reform. The recommendations didn't mention much more than had already been mentioned — so we still have largely the same old draft law."

Goldwater's sympathy, however, for those who seek to defy the draft was nil. He especially vented his disgust at black power advocates who have sought to make the war a racial issue. The

Stokely Carmichaels and H. Rap Browns, he said, "are devious and dangerous."

Backs Political Independence

His criticisms grew more hesitant in regard to theories for the exercise of black power within legal bounds. "I suppose any group has a right to form economics and political alliances," he

for the GOP, intoning "We're not so bad."

'The Court's Right'

On questions of the U.S. Supreme Court, and its recent decisions restricting the tactics of law enforcement, Goldwater projected a much more hazy view than the average voter in 1964 may have attributed to him.

der judgement on the Court was complemented with a cautious call for "reviewing legislation to make sure it can do the job."

'I don't Knows' Believable

The former senator often displays a unique sincerity in saying "I don't know" in areas where other politicians might make their "I don't knows" sound knowing.

An Arizonan always, Goldwater has a whole way of expressing himself which is entirely Western. His gestures, tone of voice and favorite colloquialisms all add to his conservative image. When he speaks without a prepared text, which is his usual procedure, there is a unique quality in his presentation that is at once sincere and old-fashioned.

The most common malady attributed to his campaign in 1964 was his inability to say what he meant — especially when speaking off the cuff. If this be true, the increased sincerity of his extemporaneous style may be viewed as somewhat of a personal tragedy.

Goldwater's western manner came out strong when the topic of conservation arose. As a recent author of a work dealing with the natural wonders of his own state, the former senator emphasized his conservationist views, but added, "The needs of people outweigh the needs of those who love the outdoors." Shifting his frame of reference, he said, most people don't know how to treat our national parks anyway. The mess you see in our nicest national parks shows how people don't appreciate them."

Conservation Stand Defensive

The Arizonan's concern for the development of his own state may contribute to the dilemma he faces in equating conservation with conservatism in his own philosophy. "That's one of my pet subjects," he was quick to interject, and proceeded to defend his views as more conservationist oriented than the liberal view.

Goldwater's view of the Mid-east crisis was the most con-

cretely expressed of the day. "Israel has a right to exist and always has," he said, "and the split of the left over whom to support is proof of the logical bankruptcy of liberalism."

He snapped at this opportunity to expose a gap in the opposition's ranks. "The phonies still outnumber the true liberals. When (New York Sen.) Jake Javits can be a dove in Vietnam and, at the same time, be all for rushing to the aid of Israel, you know that the left is not being honest."

'Phonies on Both Sides'

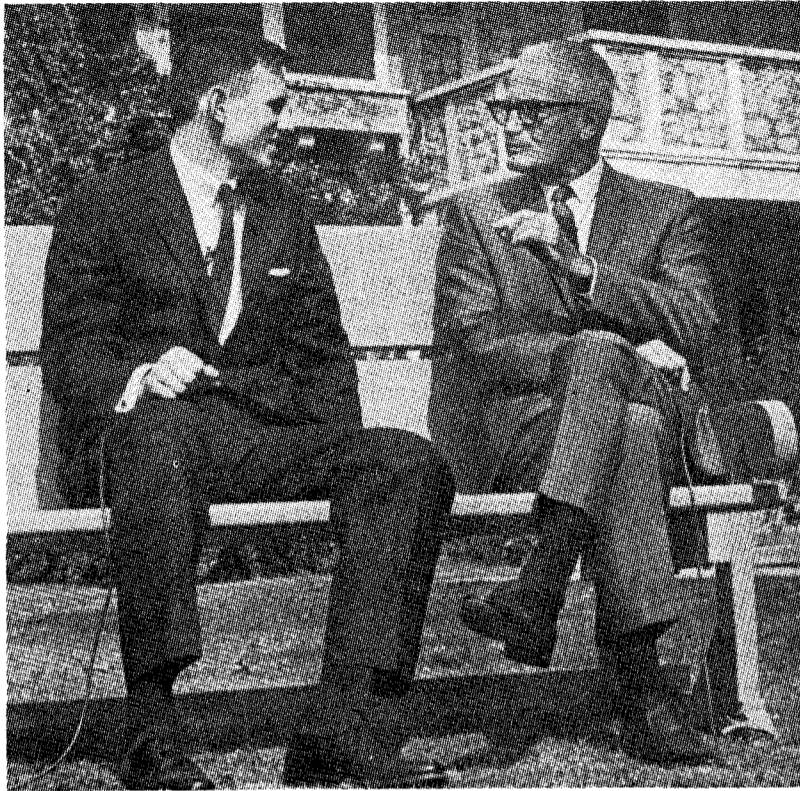
Goldwater conceded that phonies could be produced from conservative as well as liberal ranks but declined to put his finger on any specific group or individual. "All of our office-holders are honest men," he intoned cautiously, "but stands on political issues today are dependent upon what comes out of the computer — what will draw the most votes."

When the subject of honesty in politics arises, the former senator is the first to admit that his frankness in the '64 campaign may have lost him some votes. A fidelity between what is thought, said and done by politicians he attributes to "a younger nation with a stronger pioneer spirit," akin, he agrees, to the U.S. between Revolution and Civil War.

Despite his expressed faith in the youth of today, Goldwater's view of the U.S. as an aging nation falling prey to more corruption and less responsibility constitutes a pretty grim forecast. "Every major nation has declined this way," he said, pointedly ignoring any mention of America as an exception.

Conflict of Labels

But the Arizonan's pessimism (Continued on page 5)



—photo by Kerry McClanahan

Claremont Collegian Editor Dick Montgomery interviews Barry Goldwater.

sadi, but conceded he wasn't quite sure whether economic measures would "get them anywhere."

Goldwater chuckled at referrals to his own "ethnic" experience with a Phoenix golf club that refused him membership on the basis of his one-half-Jewish ancestry, whereby he promised to "just play the first nine." "Actually that's not entirely true," he said "and I ended up president of that club."

But the crux of the comparison was well-received, and the former senator agreed that many facets of the black power doctrine "are basically conservative."

By remaining unquestioningly in the ranks of the Democratic Party, he went on, "the Negro becomes a pawn. Show me a major U.S. city today, with a Democratic administration, that has done the Negro one lick of good. They're always promised a Cadillac in the morning — and it's never delivered."

Goldwater favored a more independent and discriminating political posture for America's minorities and slipped in a plug

While he emphasized the problems such decisions present to law enforcers, he was hasty to add that "Police chiefs around the country will give you different stories as to whether or not the new decisions have hampered them."

When the question of the Court's correctness in law enforcement decisions arises, Goldwater became more unsettled. "I'm sure that there must be a Constitutional reason for what they've said," he ventured haltingly, "but I'm not an attorney and don't know too much about this area." His reluctance to ren-

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Caltech Classes of Future Research Draws Fire To Include Some Coeds

(Continued from page 1)

enough number of application from women so that more than only one or two women would be able to meet the academic requirements and qualifications for admission. The "good" number mentioned most often was five to seven percent of a class hopefully being female, with Dean Jones hoping for an optimum of 10 percent of the class as female or — better yet — expanding the class size to 220, twenty of whom would be female.

MIT has experience

Nearly all statements, however, were prefaced with a comment to the effect that more study was necessary before any definite statements could be made. Nearly all the administrators pointed out at one time or another the fact that MIT had admitted women since its found-

ing, and that its experience — since it is perhaps the closest approximation to Caltech in the United States — would be the most valuable in such a study. Dr. Bacher, who has already done some preliminary study of the MIT experience, stated that for many years the number of women undergraduates at MIT had been very small; and that only recently, after completion of women's residence facilities, had the percentage of women undergraduates risen over five percent. Dr. Bacher mentioned that the people from MIT with whom he had talked said that they expected the number of women to increase again as soon as more residence facilities were completed.

Dr. Huttenback was of the opinion that facilities for the housing of women undergraduates could be found immediately; either in off-campus Institute-owned homes, or on campus on the second floor of one of the new Houses. He did state, however, that eventually permanent arrangements for their housing would have to be made — perhaps with the conversion of one of the four proposed new graduate houses into a women's combined graduate and undergraduate residence. Both Dr. DuBridge and Dr. Bacher stated that any temporary housing arrangements were usually very expensive and not satisfactory, and both felt that a permanent solution would have to be found before women were admitted. Dr. DuBridge stated there are at present no funds in sight for the construction of a women's undergrad dorm, since most of the money which hopefully will be raised by the fund drive has already had specific purposes allotted to it. Dr. Bacher stated, however, that an architect was in the

process of detailing the modifications which would be needed to convert one of the proposed grad houses into the mixed female residence Dr. Huttenback mentioned, should such a scheme be approved. Dr. Bacher did say that even the funds for the proposed grad houses still were not available, however.

Plans must be laid

All in all, the administration has not yet had the opportunity to begin a meaningful investigation of the subject with the faculty that would produce a detailed plan upon which a decision as to the admission of women could be made. Then, it still would be at least two years from that decision before women could actually be admitted, assuming of course that any facilities deemed necessary by the plan could be made ready in two years' time. Perhaps the best summation of the administration's views was given by Dr. Bacher when he said, "We will have to make sure we have a plan which will really be as successful a program for the admission of women undergraduates as we are able to plan."

The final decision in the matter will rest with the Board of Trustees. Dr. DuBridge stated that there would probably be at least informal discussion of the question at the next Board meeting in January. He did state, however, that there was the possibility that the Board might act on this matter at its next meeting by taking the matter under consideration and appointing a committee to work with the administration and faculty to develop a detailed plan. Only when a detailed plan was worked out would the Board act decisively on the matter.

In any event, it looks highly doubtful whether any students presently at Caltech will still be here as undergraduates when the first women undergraduates enter.

(Continued from page 1)

Curt Frank, vice president of Ricketts House: A lot of people don't know what's going to happen. Some don't think we can get too much done, others think we're asking for too much money.

It is clear than many of the house officers feel that the project is too large, but none interviewed suggested that the pro-

Smoke: Pyre

(Continued from page 3)

Tech in flames

The outcome of the night's activity? The Pasadena City Fire and Police Departments were able to have a full-scale dress-rehearsal for what they would do if Caltech actually did go up in flames; a certain member of either Ruddock or Lloyd will know the difference in the future between a funeral pyre and an outright conflagration; members of Page House still had to clean out their courtyard by means of an age-old method known to everybody — except, perhaps, certain Phages — as good-old-fashioned, honest, manual labor; and members of the Caltech student body discovered a delightful new spectator sport; i.e., watching what happens when Page tries to burn Inter-house.

Goldwater

(Continued from page 4)

is often offset with an optimistic aside and a burst of progressive instinct. He displays the same confusion as to a definition of his credo that many observers confess. They find it hard to accept as consistent a man who can point to many areas of agreement with avowed liberals and blankly predict that "history will record me as one of the era's true liberals" and subsequently affirm, "I consider myself a conservative."

The Goldwater philosophy, if manner of presentation, sincerity and consistency can be any criteria, appears to rest on intuition rather than any well-patterned model for political belief.

Removed from the din of the speaker's platform and campaign rally, the Goldwater credo runs as honest and spontaneous as the man who embraces it. In a political atmosphere where attention to precision and consistency is held in such brutal importance, this in itself is a marvel.

ject did interfere with House loyalties or activities. While this sample of people is small, compared to the number covered by a poll, their comments do suggest that a number of people are not satisfied with the project at the present time.

Proposal submitted

Concerning the project itself, the pilot project funds proposal is almost finished and will be submitted by the end of the week. Development is working with the funds committee to polish up this proposal, which will ask for \$110,000.

Last weekend, Joe Rhodes and Mike Garet participated in two East Coast project meetings. The first, held at Columbia, included students from such schools as Harvard, Yale, M.I.T., Columbia, Cornell, and Radcliffe. Most of those present were social science majors and were quite enthusiastic. Mike Garet believes that they will be able to provide much insight into the workings of the project and was quite impressed by the multitude of approaches that they offered for solving its problems. He believes that such an interdisciplinary approach will solve many of the problems that will arise. A number of these social science students are making plans to come here during second term. The second meeting, held at Carnegie Institute, was similarly successful.

Atoms for Peace

(Continued from page 1)

the past twenty-five years had not been according to his hopes, and that he had hoped that Germany and Japan could be defeated and then that mankind could find its way to peace. Mankind did not learn how to maintain peace, however.

But if the Manhattan Project were starting today, Dr. Christy would still work on it. His reasons were the following: "One, the future of atomic energy is still apt to be of major importance for mankind and we cannot forego such a development. Two, we still hope that the presence of atomic weapons serves as a positive influence toward peace since it renders full-scale war so irrational. Third, I do not believe that the development of atomic energy and atomic weapons could have been avoided — it could only have been delayed by our non-participation." He concluded by observing that he would be more concerned about the future if he had suspected in 1942 what he now knew, but that "My concern, however, would be more about the inability of our political institutions to accommodate in any way to the technological developments associated with atomic energy and atomic weapons."

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TECH Sports

Caltech Wrestlers Thump LA Trade Tech in Opener

The grappling Beavers of CIT's wrestling squad, under the guidance of coach Tom Gutman, opened their season with an exciting 30-20 victory over Los Angeles Trade Tech in a dual match at Caltech last Monday. The Engineers were led by Sophomore veteran Ken Higgins, who won two matches. In the 137-pound class, Ken pinned his opponent to the mat in the second round. Higgins came back to wrestle in the 160-pound class and again pinned his opponent.

In other matches, Beaver John Batchelder pinned his Trade Tech opponent in the 115-pound weight division. L.A.T.T. forfeited the 123-pound class match to CIT. Derry Hornbuckle of Tech was pinned by his foe in the 130-pound class, as was Steve Patterson in the 145-pound division. Likewise, Robert Crane of Caltech was pinned in a close match in the 152-division.

First year wrestler Nelson Briceño suffered from lack of experience and was defeated in the 167-pound class by a pin. C. Alan Beagle, the Beavers' top grappler

from last season, pinned his opponent in 32 seconds of the first round. Alan wrestles in the 177-pound class. Following Beagle's example heavyweight Joe Devinney, veteran of two collegiate wrestling seasons, wasted no time in pinning his opponent to the mat. Heavyweight Russ Halsted was pinned in exhibition.

Coach Gutman was pleased at the outcome of this first meet, but nevertheless he had some cause for worry and concern. He explained that the squad has suffered a 50% dropout rate since practice started a month and a half ago. Only 10 grapplers survived the original squad of twenty. "The explanation" states Gutman, "is the lack of sincere attachment of the quitters to that which makes a devoted wrestler and a devoted athlete." Gutman claims that Caltech could win the SCIAAC Championship this year "if certain people who have had wrestling experience — either here at Tech or in high school — would have enough school pride to contribute to this year's squad."

Flems to Defend IH Swim Crown

It's always heartening to know that Teckers are not so wrapped up in snaking during the week before finals that they can't take time out for Interhouse Swimming. Last Monday, for example, they turned out in force for the preliminaries of the swimming events.

Dabney's David Rossum led all qualifiers in the 50-yard freestyle in a time of :26.5, somewhat short of Richard Touton's (former Darb) record of :24.1. Richard Burton of Fleming won the 50-yard backstroke prelims by touching home in a slow :35.8. P. Graves, formerly of Blacker, owns the IH record of :30.6.

John Healy managed to win the 50-yard breaststroke heat in a respectable :33.8, slightly more than a second off of B. Johnson's record :32.4. Blacker's Walt Farrell, a fine swimmer, tripped the 50-yard butterfly in the :30.6, only 1.4 second off J. Russu's IH record.

Mark Radomski of Blacker captured the best qualifying time of his life in the 100-yard freestyle. Touton holds the record in :53.

Cagers Play Here Tonight

Caltech's varsity basketball team is off to a rather lack-luster start this season. Through four games thus far the Beavers have managed but one victory while dropping three games by convincing margins. The season's opener was at home against Southern California College. SCC handed CIT a loss, despite a 23 point spree by senior Terry Bruns. Major weaknesses which proved costly to the Beavers were poor passing and too frequent let downs by the defense.

The Teckers won on their next time out, however, when they travelled to LIFE College and team. Again Bruns led all scorers with 28 points.

Monday night the Engineers were home again to host LaVerne College. CIT, relinquished an eight-point half time lead as LaVerne came roaring back and managed a 91-78 victory going away. In this game the Beavers looked really impressive. Their passing improved greatly over the first two games; the defense also was much better (especially in the first half.) The deciding factor in the Caltech loss was the fact that the Beavers had eight turnovers the first sixteen times they got the ball in the second half. Bruns' hot hand continued as he hit for 31 points. Also, Tech's hustling guard, Jim Stanley, exhibited some fantastic offensive moves while scoring in the double figures.

The day following the LaVerne game the Beavers journeyed to Biola College where they sustained their worst recent loss, 98-71. CIT's next outing is tonight when they host Cal Baptist at Scott Brown Gymnasium.

Annual Awards Banquet Planned

by Creasy

The annual Fall Athletic Awards Banquet of the California Institute of Technology will be held on tomorrow evening starting at 6:30 p.m. in the Page House Dining Room. Tribute will be paid to lettermen and outstanding performers in Caltech's four fall sports — cross country, football, soccer, and water polo.

The Banquet is a traditionally lively gathering, usually presided over by some member of the Institute's Committee of Athletics and Physical Education. Invariably, the Director of Athletics makes a "short" speech commending the teams — coaches, players, managers — no matter what their final records turned out to be.

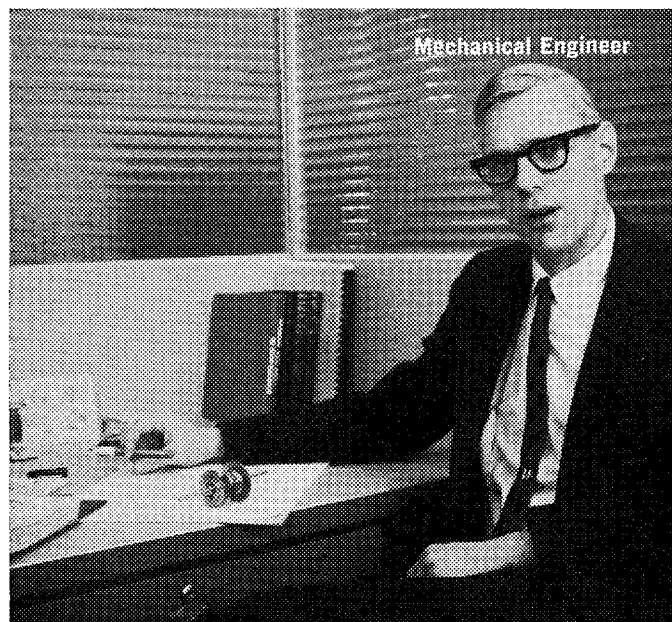
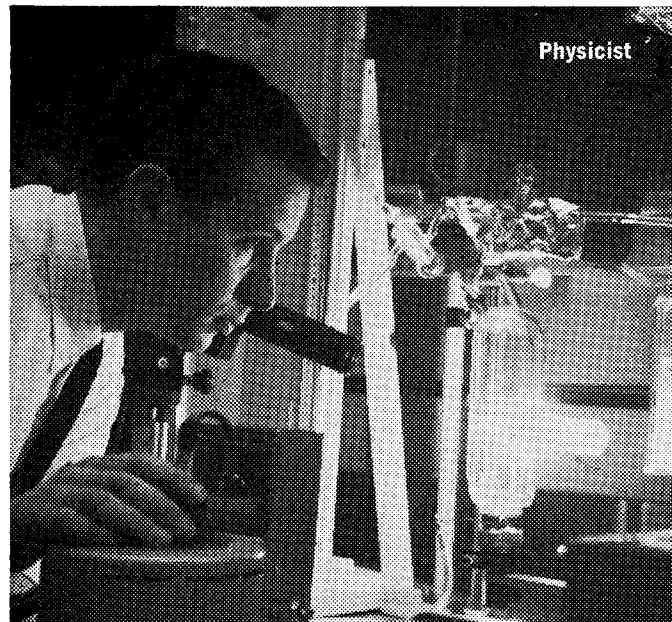
After the DA's tirade, the coaches of the individual teams come forth to tell jokes which aren't always funny but which are always fairly "gross", to thank the DA for his generous praise, and to present the players which form his team with their awards.

Finally, a representative of each team usually demands and gets time with which to acknowledge the team's appreciation of the coaches' teaching, advice, and long-suffering. This appreciation almost always takes the form of a consumable liquid designed to restore the coaches' spirits.

Discobolus

For the second time in two weeks, Fleming House has earned a Discobolus victory. Sparked by freshman Joe Templeton, the Flems took a 20-12 win over Ruddock House in six-man touch football. Templeton stood out on offense by throwing for all three Fleming TD's and on defense by intercepting three Ruddock aeriels. Grey Brewer was Ruddock's standout, utilizing his speed by returning a kickoff all the way for a touchdown.

Blacker House is the challenger in the next Discobolus match, which isn't scheduled until second begins in January. Dabney still leads the competition standing with 13 Trophy points. Fleming and Page are linked for second with 7; Ruddock has 2; Blacker, Lloyd, and Ricketts have one point each.



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And Mechanical Engineer Dr. Donald A. Kugath, MSME '60, also at the R&D Center, is involved in development studies of manipulators and other mechanical devices.

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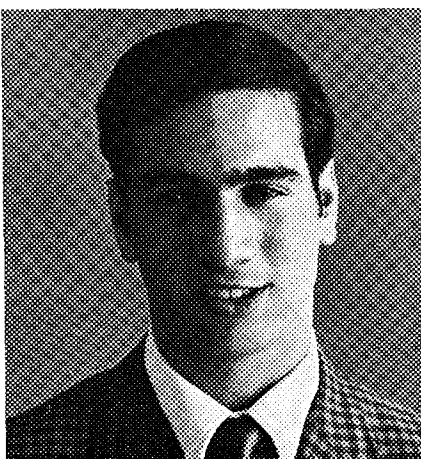
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