

Dear Murph,

California Tech

Associated Students of the California Institute of Technology

If at first
you don't
secede...

Volume LXX

Pasadena, California, Thursday, December 5, 1968

Number 10

DuBridge Named Science Advisor



Dr. Lee A. DuBridge, president of Caltech for the past 22 years, will leave Caltech next January to assume his position as the nation's top science advisor in the Nixon administration.

by Jim Cooper

On January 20, 1969, Dr. Lee A. DuBridge, presently president of the California Institute of Technology, will leave Caltech and assume the duties of top science advisor in the federal government.

Last Tuesday at a press conference in New York, President-elect Richard Nixon announced his choice of Dr. DuBridge to be Special Assistant to the President for Science and Technology—the President's scientific advisor.

In a press conference Wednesday morning held at Caltech, Dr. DuBridge revealed that Nixon had approached him in regards to the post several weeks ago, with the official announcement coming Tuesday.

Although Dr. DuBridge stated that it was too early to go into specific details of his plans, he said that both he and President-elect Nixon were agreed as to several basic areas of concern. DuBridge outlined these as strengthening graduate research in the universities of the country; strengthening government research; and bringing universities, industries, and the government into a closer collaboration on scientific research.

Dr. DuBridge reported that to help formulate specific programs in these areas, two special task force groups of the federal Scientific Advisory Committee had been set up.

One, headed by Dr. Guy Steeger, president of Carnegie Mellon University in Pittsburgh, will be chiefly concerned with drawing up policy guidelines.

The second, headed by Dr. Charles Townes, Nobel Prize winning physicist at the University of California at Berkeley, will be concerned with determining the future of the nation's space exploration program.

Both Dr. Steeger and Dr. Townes received their PhD's at Caltech.

ASCIT Structure Revisions Pass

The bylaws election results have finally been tabulated, and as predicted in the last *Tech*, the results were No and Yes (maybe). The petition to change ASCIT dues from \$22 to \$11 did not get a simple majority, let alone a two-thirds majority. It did get almost 40 per cent of the vote cast. It appears that almost all of this vote supporting came from those who had signed the original petition.

There was a great deal of difficulty in determining whether or not the BOD Restructure was going to pass. Initial vote counts placed the results very close to the necessary two-thirds yes. Problems arose because no one in Lloyd House signed for their ballot. This caused a 26-vote uncertainty. Final counts showed, however, that with or without the Lloyd vote, the Restructure amendment had received the necessary two-thirds with a margin of about five votes out of 300 cast.

With regards to the space program, Dr. DuBridge sees further detailed exploration of the moon, and eventually detailed exploration of interplanetary space and the planets themselves.

Saying that the Apollo program is "in very fine shape at the present time," Dr. DuBridge expressed confidence that America would land men on the moon by the end of 1969. However, Dr. DuBridge stated that scientific exploration was only a small part of the motivation for the Apollo program, and that "an important part of its motivation had been from the standpoint of international prestige."

Although Dr. DuBridge said that undoubtedly more unmanned exploratory vessels will be used in the future, "man must be inserted eventually" as a more refined scientific instrument. Thus, Dr. DuBridge believes that

after landing men on the moon, there will be a "continued program of manned space flights."

When asked about the reductions in recent months in federal funds for basic research, brought about mainly as a result of the costs of the Vietnam War, Dr. DuBridge stated that both he and President-elect Nixon believe that "such reductions in basic research budgets are a mistake." Dr. DuBridge went on to say, "The hope for the future is the basic research being carried on in universities and the new scientists being trained in universities."

Dr. DuBridge also called for better cooperation between U.S. scientists and engineers, and those of other "friendly" countries, and that he would act to "enhance exchange within the international community."

(Continued on page 4)

Speaks at Award Banquet

Gardner Gets First Annual Millikan Award

"The true task is to design a society (and institutions) capable of continuous change . . . because we are creating new problems as fast as we solve the old ones," Dr. John W. Gardner, chairman of the National Urban Coalition and former Secretary of Health, Education and Welfare, declared at the Caltech Annual Banquet.

"This is the moment when men, here and around the world, have in some measure withdrawn faith in their institutions. They are questioning, re-examining," he said in an address prepared for delivery before more than 800 educators and other civic leaders gathered at the Ambassador Hotel to honor him.

The occasion was the presentation to Dr. Gardner by Caltech of its first Robert Andrews Millikan Award, which will be conferred annually upon a person who has so shaped his conduct as to "promote best the well-being of mankind."

How Does

The words are those of the late Dr. Millikan, in whose memory the award is named (Caltech confers no honorary degrees). The award was presented to Dr. Gardner by Dr. Lee A. DuBridge.

"Some of today's college-aged critics have a feeling that if they could tear down existing institutions, better ones would surely arise," Dr. Gardner declared. "But history is an endless reiteration of the tearing down or collapse of institutions and their replacement by institutions essentially no better. As institution builders we have a notable gift for making the same mistake over and over."

He urged shelving the notion that social change alters a tranquil status quo, adding that "Today there is no tranquility to disrupt."

Your Gardner

"Our status quo has been

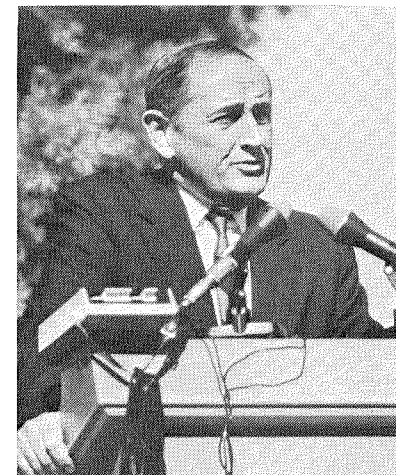
knocked head over heels by the revolutions of science and technology in transportation, in communications and in the processing of information, in industry, in agriculture and education, in demography and biomedical affairs."

Dr. Gardner emphasized that the swift pace of the revolutions "makes it desperately necessary that our institutions be acceptable." He added that it is not enough just to change them. They must be imaginatively re-designed.

One of the key, neglected aspects of the problem, he said, is the decay of human institutions. As they grow "increasingly rigid, increasingly resistant to criticism, the critics grow increasingly hostile, increasingly intemperate. And the stage is set for violent collision."

He declared that there is nothing more healthy, nothing more healing than for men to participate directly in the re-

(Continued on page 2)



Dr. John W. Gardner, first recipient of the Robert A. Millikan Award, speaks to the Caltech students on the urban problem. Dr. Gardner gave his talk shortly before the annual banquet where he was presented with the award.

ASCIT Cash Runs Short as Big T Bills Mount

by Alan Stein

This seems to have been a bad week for ASCIT and a good week for the creditors. ASCIT has received bills totaling almost \$2500. The sources of these bills have been the **Big T**, the Rock concert held before Thanksgiving, and the football victory.

The greatest debt is connected with the **Big T**. The Taylor Publishing Company has demanded payment of \$1400. This would be no problem were it not for the fact that the old **Big T** business manager may have neglected to collect the money owed for ads placed in the yearbook. This outstanding source of funds could amount to something over this \$1400 figure. If this money is not soon recovered, ASCIT will have to pay this \$1400 out of its own pocket. Joe Feng, ASCIT treasurer, is in the process of contacting the business manager to determine if this is indeed the case.

The Rock concert can be euphemistically described as an utter failure. Despite the planning and the money spent on advertising, the ticket sales amounted to well under \$200. Unfortunately the cost of the dance itself was around \$1000. More unfortunately, the social budget had no more than \$700 in it. Some of this money is recoverable, but the effect on the ASCIT Social Program has not been completely determined.

Adding insult to injury, the City of Pasadena presented Caltech with a bill for \$120 for maintenance work after the fire.

It was suggested that if this bill is paid, a counter bill should be presented to Pasadena for P.R. work accomplished by the students.

Y Fund Drive Nears \$3500 Goal

As of December 2, 479 students had contributed \$2849.93 toward the Y's student fund drive goal of \$3500. In terms of on-campus undergraduates, off-campus undergraduates, and graduate students, these totals break down to be 393 on-campus undergraduates have given \$2258.05, 14 off-campus undergraduates have given \$171.38, and 72 graduate students have given \$420.50. The average gift has been about \$6.00.

Ruddock House has contributed most among undergraduate houses with a total of \$435.67, followed by Fleming (\$411.59), Lloyd (\$335.50), Ricketts (\$315.00), Dabney (\$302.00), Blacker (\$286.27), and Page (\$170.00).

The Y continues to receive and accept contributions daily and expects eventually well over \$3000. The support of many more off-campus undergraduates and graduate students is needed, however. Students who have not yet pledged their financial support of the Y's program but who wish to do so may send a check or a pledge to be added to second term's bill to the Caltech Y through campus mail.

Drug Study Released by Center

"Pot" — Medical and Psychological Aspects of Marijuana, 105 pp. and "LSD"—Adverse Effects and Mental-Health Hazards, 185 pp. compiled by Kenneth Eells, psychologist of the Young Health Center, Caltech.

by Mike Henerey

Dr. Eells has, in each of these volumes, brought together a selection of articles covering a wide range of literature. "Pot" source-works range from *Psychopharmacologia*, an experimental journal, to the *Reader's Digest* and the *Los Angeles Times*. Unfortunately this collection is not as impartial as it claims to be. Contentswise, there have been four types of articles widely published on the subject: 1. those strongly against pot, 2. those strongly in favor of it, 3. those calling for reason amid the chaos, and 4. serious research without any polemics. Eells reveals no small prejudice by selecting from categories 1, 3, and 4. This is regrettable, because the book is otherwise quite good.

The articles against pot are lit-

erate representatives of their point of view, and so are those of the third category. It is a rare and useful study which can place two such points of view side by side and let us see the inherent "rightness" of each one. In this way the book is quite impartial and Eells has contributed something of worth to the scene.

As a biologist, I had to be disappointed by the selection of research papers presented. Consisting of a few isolated experiments, they fail to give any overview of the situation. There is no criterion here of "outstanding" or "representative", particularly since the action of no psychological drug has ever been known at a biochemical level.

This lack of understanding permeates the articles in *LSD* . . ., the chief difference being the quantity which has been written. In this longer book, there is a great deal more continuity, for example, a set of eighteen chronological articles concerning possible chromosome damage. Eells is further able to draw on the

pool of literature involving the structure of LSD (LSD is structurally related to wide variety of well known bodily constituents,) and the further pool of psychological studies of LSD activity.

The tone of *LSD* is much more negative than its sister volume, but it makes no claim to impartiality. Eells does not base this negation on any facts stated or implied, but rather on the conservative milieu of the medical profession. This is all well and good, and it would seem that in late 1968 we cannot ask for much more.

Millikan Award

(Continued from page 1)

shaping of their institutions and he emphasized that this should be done at the local level.

In presenting the Millikan Award to Dr. Gardner, Dr. DuBridge said, "John Gardner, through the brilliance of his mind, the power of his writings, the inspiration of his leadership of great institutions, has served his fellow man nobly and well. It is most appropriate that he should serve as Secretary of the Department of Health, Education and Welfare, for the health, education and welfare of mankind have been the key goals of his life.

"It is fitting now that he serve as head of the National Urban coalition when he can devote his great talents to bringing justice, equality of opportunity, and a better life to the people of our stricken cities."

Grow?

The Millikan Award consists of a certificate, a model of the alpha helix embedded in a plastic cylinder, and an honorarium of \$5,000.

John R. McMillan, president of the Associates of the California Institute of Technology, opened the program. Dr. Arnold O. Beckman, chairman of Caltech's board of trustees, noted that 1968 is the appropriate year for Caltech to initiate the Millikan Award, it being the 100th anniversary year of Dr. Millikan's birth.

Dr. Gardner is a native of Los Angeles and graduate of Stanford University. He earned his doctorate at the University of California, Berkeley, and taught psychology for several years.

He holds the U. S. Air Force Exceptional Service Award and the Presidential Medal of Freedom, which is the nation's highest civil honor. He is the author of several distinguished books, including "Excellence," "Self-Renewal," and "No Easy Victories."

Y Lets It Hang Out

"Men are not made for safe havens"—Edith Hamilton

"I need all the friends I can get"—Charlie Brown

"If you're not part of the solution . . . you're part of the problem"—Vista

"Aim me at the Establishment"—cartoon caption

"Love"—a handwritten note tacked on a bulletin board. A hippie hang-out? No, this is the office of the associate director of the Caltech YMCA, Pat Davis.

Amid these comments of our times and piles of Y-bulletins, Pat is getting into the swing of a job she started only seven weeks ago. My interview with her came in the middle of a typically busy day—the phone was often used to discuss dates of coming events; students wandered in and out asking about activities. Her office (a small one, at that) seems like a command-communications post.

Getting to Know You

Pat admits it's "great" to be working with students. She knows more undergrads than grads, but is trying hard to communicate with the entire campus. In particular, Pat would like to get to know the faculty and administration better, besides just understanding Tech.

This acquaintance with the campus is necessary, for Pat sees herself as someone to kick ideas around with; once the idea gets momentum, she starts the Y-machinery going; this involves contacting the right people.

Apply Now, Work Later

Pat got her job after working on the ASCIT Research Project during the summer. As the summer passed, she realized she didn't have a job for the winter. She then made numerous em-

(Continued on page 4)

Hair Comes Da' Judge!

By DAVE LEWIN

Imagine a musical written by the Fugs, centered about life in New York's East Village. Imagine a rock-concert hall turned Theater. Now imagine a cast who really love their roles, so much so that they don't seem roles, but seem like their lives. This will give you some idea of what HAIR, a "tribal-love-rock-musical" as it bills itself, is like.

The Aquarius Theatre, what used to be the Kaleidoscope dance hall, is admirably constructed for this production. There are a 90-foot in diameter revolving stage, no pillars in the audience area, side stages above the main floor, and strobe footlights. Scenery is sparse, but enough to help set the stage and give it life. Through most of the play, the costumes were just typical outfits to be found anywhere in the East Village.

The main weakness of HAIR is its lack of plot. Rather, its lack of obvious plot, since what little there is, is dragged out through the use of flashbacks, topical comments directed towards the audience, and a rather long scene representing a drug trip. Freshness and catchiness are the main qualities of the music. At least one of the songs, "Donna," is already well played on the radio. There is even a song for all you smog fanciers out there (Kof, Kof), entitled simply "Air."

Gerome Ragni and James Rado, the male leads, are also two of the three authors. Berger (Ragni) is a super-freak, able to embarrass a battalion of little-old-lady types with a single word or gesture. Claude Hooper Bukowski is the main character, played by Rado, in terms of plot line. All of the actors and actresses struck me as being turned on by their roles.

Booze?? Bleah

HAIR seems to have as its raison d'être the education of the average middle-class, over 30 type in the lifestyle of the hippie. Four letter words are used, along with nudity, to crack some of the traditional taboos of the theatre. However, I didn't get the idea that the sensational aspects were just exploring the purient interests of the onlookers. If you think you can afford it, go see HAIR. It grows on you.

California Tech

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The Monkees HEAD

co-feature

James Coburn and James Mason in DUFFY

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Notices

Y SACK LUNCH

Dr. Harrison Brown, professor of geochemistry and science and government, will speak at the Y lounge on Tuesday, December 10, at 12 noon. He has written *The Cassiopeia Affair* — a science-fiction thriller, written with Chloe Zerwick. He has been travelling abroad as the foreign secretary of the National Academy of Sciences. His topic is "Science and the Developing Nations."

INTERHOUSE SWIM

The Interhouse Swimming Meet takes place next week. The time trials will be held on December 10, diving on December 11, and the finals on December 12. A reminder to all athletic managers — all those who are to swim a distance of 100 yards (freestyle or individual medley) must have a minimum of 5 workouts.

BASEBALL

Attention all former baseball players and any students interested in going out for Caltech's varsity baseball team: there will be a meeting for all interested persons Wednesday, December 11, at 11 a.m. in the lecture room (rm. 23) of the gym. Anyone interested in being a manager should also come.

INTERHOUSE FOLLOW-UP

Anyone who has a photo of me as Banker in Blacker's Monopoly game, please contact me; I would like a copy.

Carl N. Anderson
Banker, Pacific Ave.
thru Boardwalk
36 Blacker

MASS PROTEST MEETING TO BE HELD THURSDAY NIGHT

The Caltech Physics Club will hold its second meeting of the year Thursday, December 5 at 8 PM in the home of Professor Barnes (1546 Rose Villa). Professor Murray Gell-Mann will speak on Elementary Particles. All are invited to attend. Refreshments will be served afterwards.

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Booters Lose Twice

Caltech's varsity soccer team lost the final two games of the season by the largest margins of the season. On November 20, they were defeated by Belmont, 6-0. This was the worst defeat suffered by the undergrads since the game against UCLA last season. Caltech played well, especially Jerry Eisman and Dick Burton, but was very much outplayed. The majority of the Belmont team was from Mexico, and they showed what really good soccer is like, for they had been playing soccer for most of their lives. They were truly the best team that Caltech faced this season. Had the Belmont shooting been better, the margin might have been much wider.

The Biola game seemed to hold many surprises for both teams. The final score of 4-0 in favor of Biola did not indicate

what went on for most of the game. For the first half, however, it looked like something might change that. Biola took only five shots in the first half, one of which went wide, and the halftime score was 0-0.

Good Defense

A less overconfident Biola team took the field in the second half, and finally scored the first goal five minutes into the period. It was downhill for Tech the rest of the way, but there was still a great deal of fight. Biola was able to take very few shots, a total of twelve in the game, far fewer than in their normal games. This was largely due to the excellent work of the Tech defensive players Jon Hall, Dick Burton, Ralph Graham, and Vesa Junkkarinen, three of whom played without rest for the full game.

Beavers Have Fine Fall

The Beavers concluded their fall sports season last week and this week begin their winter sports season with four basketball games, two wrestling matches and a swimming meet on tap.

The fall season was a great success this year as all teams bettered last year's records. The biggest day of the season was the Beavers first football victory in four years, as they downed UCSD, 34-31. The football team had a 1-7 record and a position in the SCIAC cellar.

The Beavers, as usual, produced some stellar gridiron players. Lonnie Martin put on a fantastic performance in the UCSD game to help the Beavers win. He was named to the SCIAC first team as a split end. Mike Brennan, a punishing runner, was named as fullback on the SCIAC second team.

The Beavers' star player, however, was Tom Burton. A great and powerful runner and a good passer, he guided the Beavers to their lone victory. He was named to the SCIAC second team and to the NAIA District 3 second team. He also received the

Southern California college back of the week award for his performance in the UCSD game.

Honorable mentions on the SCIAC teams went to tackle Tom Blaschko, defensive end Al Beagle, linebacker Dennis Pocekey and defensive backs Charles Creasy and Paul Dressendorfer.

The cross country team ended with a 3-4 record as they won their first three meets. They came in fifth at the SCIAC meet and were led by Lane Mason's fifth place finish. They were seventh in the NAIA District 3 meet where Mason placed eighth.

The water polo team has an excellent 15-6 record and was second in the SCIAC with a 5-3 league record. This year's outstanding players were Wright and Watkins on offense while Tyson, Hall, Hunt and Stefanko played well on defense. Goalie Hansen had many fine games. However, the star of the team was freshman Ed Mikowicz who consistently led the Beavers with his fine passing, defense and shooting.

Ducks Win

Caltech ended its water polo season by downing Occidental, 6-4. However, in the game before, they were downed by Redlands, 6-5.

The Redlands game was one of bad breaks and bad plays by the Beavers as they lost in sudden death after a double overtime. Watkins scored a penalty shot in the first half as Redlands scored twice. The Beavers shot very poorly and continuously threw the ball away.

In the third period, Tyson scored to tie the score at 2-2. Redlands scored on a penalty shot and Wright came back to even the score. The Beavers then missed a penalty shot and the game went into overtime. Mikawicz and Wright scored for Caltech as Redlands scored twice. The Beavers missed another penalty shot and sent the game into sudden death overtime where Redlands scored first and won the game. Fine defensive efforts were made by Tyson, Mikawicz and goalie Hansen.

Beaver Gregg Wright, playing in his last water polo game for Caltech, led the team in ducking Occidental as he scored four goals from the hole. Watkins scored twice, once on a penalty shot. Goalie Hansen held Oxy to four goals and the Beavers won, 6-4.

Season Begins

The Beaver teams starting their new seasons look forward to as much success as the fall teams had. The swimming team, even with the loss of Henry DeWitt, is looking better this season as they have more depth and are in good shape. Coach Reck is looking ahead to the nationals in March where he hopes to take six swimmers and improve on last year's seventh place.

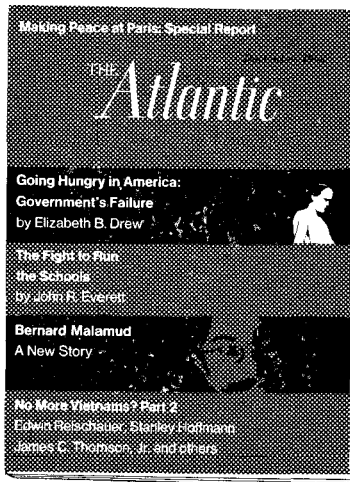
Coach Gutman has a strong wrestling team returning this year. Led by returning lettermen Al Beagle, Joe Deviny and Derry Hornbuckle, the team is looking towards improving last year's record. Newcomers who are expected to help are Johnson, Friedman and freshman Dennis Cox.

The basketball team was hurt by the loss of Terry Bruns and Jim Stanley.

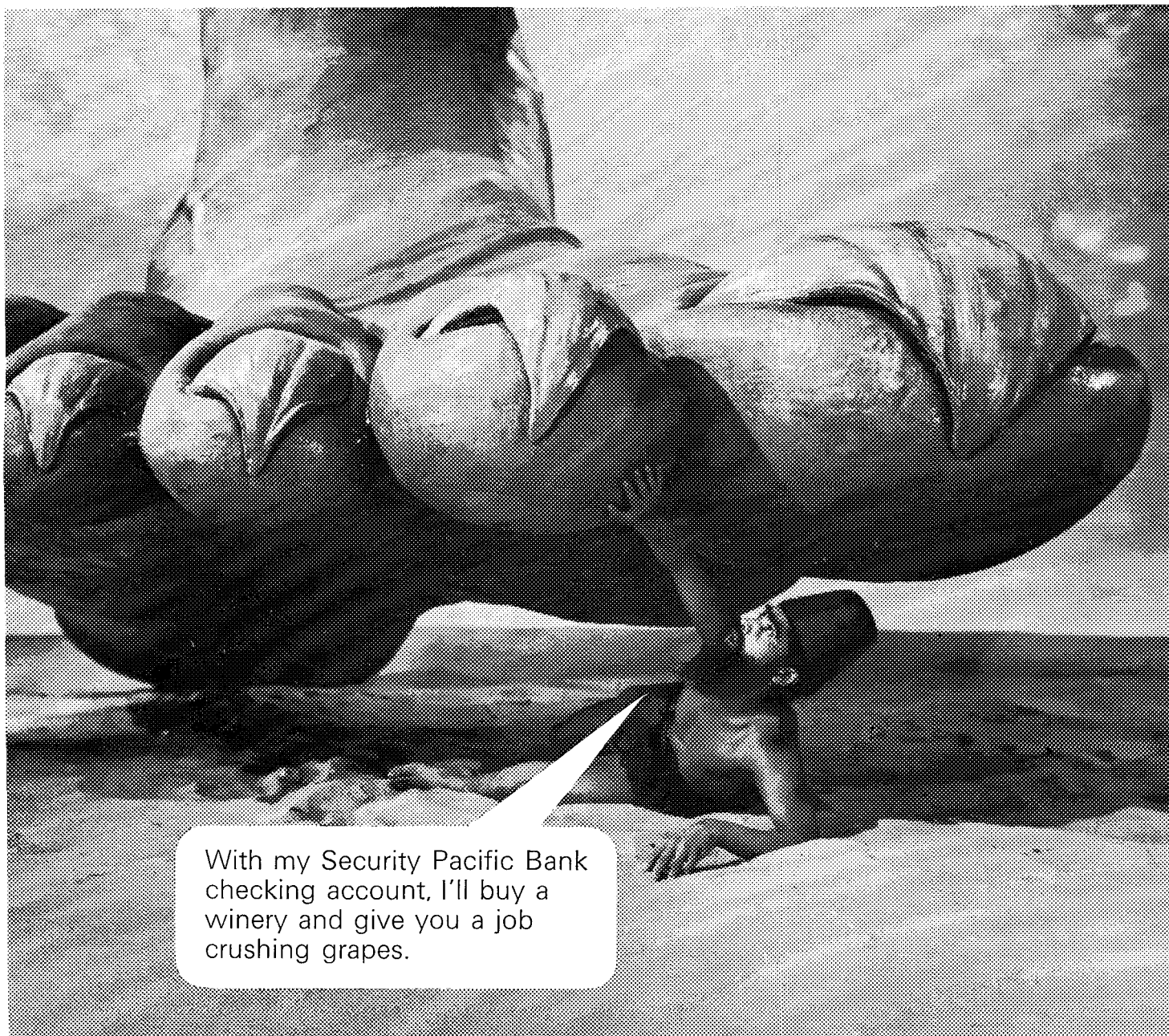
Seniors and Graduate Students

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Job Hunter

(Continued from page 2)

employment contacts. One day, as she put it, she walked into the office of Wesley Hershey, Executive Secretary of the Y, and asked if he possibly knew of a creative educational job working with people. He offered her the position. Pat says it took several days to decide to accept.

DB Is Top Sci. Advisor

(Continued from page 1)

Dr. DuBridge said that conditions at present made such communication with Soviet scientists difficult; and when asked to give his opinion of the nuclear non-proliferation treaty presently being considered, Dr. DuBridge repeated an earlier statement saying, "I am Mr. Nixon's scientific advisor, and not his political, economic, or foreign affairs advisor."

Dr. DuBridge said that both he and President-elect Nixon were in agreement as to the importance of establishing better communications between the scientific and political communities, and that he would work toward this end.

In regards to his successor at Caltech, Dr. DuBridge had no idea as to who the choice would be or when he would be named. Dr. DuBridge did formally announce that upon the president's recommendation to the Caltech board of trustees, Dr. Lyman Bonner would be appointed to the new position of director of student relations at Caltech.

In a statement released yesterday, Dr. Arnold O. Beckman, chairman of Caltech's board of trustees, paid tribute to Dr. DuBridge for his 22 years of service as Caltech's president, and stated that an announcement concerning the next president of the Institute is expected shortly.

"The job offers tremendous opportunities for me," she says. She looks forward to helping to direct sensitivity group sessions. The scientific environment and the unique kind of student here she finds fascinating. Pat feels that the Y should stimulate the student to acquire wider interests.

The Open Heart

Responding to the Caltech atmosphere, Pat senses a homogeneity of people's attitudes, which she also found at the all-woman Immaculate Heart College last

year as a senior. While Caltech is science orientated and IHC a liberal arts college, there is a kind of "sameness" about each place which might not be so predominant at a larger university.


Embarking on her "interesting experiment" in campus relations, Pat finds her job never boring, but sometimes frustrating. Sometimes the job seems too big for her. She does not want the job to develop into organizing people to do something they do not want to do.

Despite the fact that she feels

a bit "green" in her new position and there are problems to be overcome, those on campus who

have met her will certainly agree that Pat Davis is a mod associate director.

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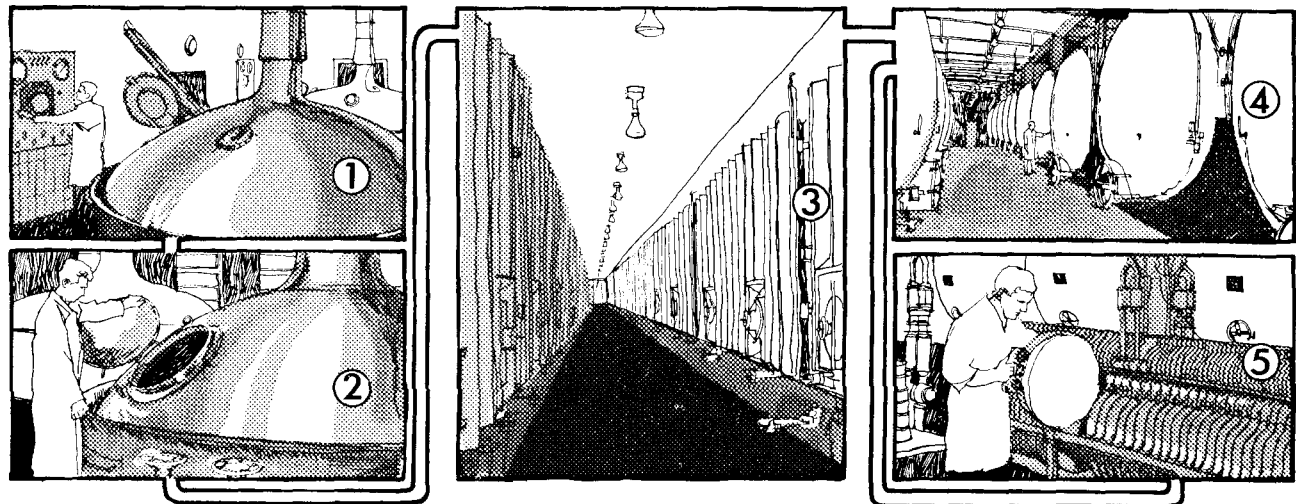
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our breweries for a first-hand look. (The pleasure will be mutual.)

Meanwhile, purely in the interest of science and higher education, here's a quick cram course.



1. At the lautertanks, we cook malt and rice to produce a clear amber liquid called wort.

2. Then to the copper brew kettles, where choicest imported and domestic hops are added to the wort—which is cooked again.

3. Now, after cooling, the wort flows into our own patented fermenters, where brewers' yeast works to ferment natural sugars into alcohol and CO₂. This is where wort becomes beer.

4. Most beers are finished now. Not Budweiser. We ferment it again, this time in special glass-lined tanks partially filled with a

dense lattice of beechwood strips. (This is where Beechwood Ageing comes in. It's a costly extra step, but we think the difference it makes in the taste and clarity of Budweiser is worth it!) We add a little freshly-yeasted wort to start the second fermentation, and let it "work."

5. The final step. The Budweiser flows through a series of finishing filters just before we package it for you in barrels, cans or bottles.

If that sounds like anybody could brew Budweiser, forget it. It takes a special kind of brewery (we have the only six in the world that will

do), a brewmaster who puts his heart and soul into brewing the King of Beers, the choicest ingredients (the cost of which keeps our treasurer awake at night), and thousands of brewery workers who know Budweiser is the best reason in the world to drink beer.

Next lesson? Well, we were going to tell you how to drink Bud.

But you know that.

Like to know more about brewing in general and Bud in particular? Write for our free booklet:

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