

In foreground see God (Dan Metlay) and random advisors contemplating swirling the world.

Tanzania Torn Internally

by Metlay

For about 70 Caltech students, last Saturday and Sunday was the time to release all of their latent hostilities upon an unsuspecting world. These young men, with a judicious sprinkling of quite capable and charming girls from Oxy, reacted to a crisis especially created for Caltech's second annual political-military exercise game in Dabney Hall of the Humanities.

The original scenario dealt with a crisis in Southwest Africa. The action swiftly shifted, however, when Mark Satterthwaite, playing Mao Tse-Tung, took the broad hint of the omnipotent Control Board and hypothetically shot Prime Minister Julius Nyerere of Tanzania. There was a swift coup d'etat and the Communist Chinese established themselves in Dar es Salaam, capital of Tanzania.

Kill, Kill!

Totally disregarding the aspirations of the proletariat of that East African country, the Western powers moved against the "liberators" from Asia. Britain, under the leadership of Will Manning as Harold Wilson, was the first to enter the scene. They attempted to bomb the Chinese stronghold north of Dar, but by the time they had acted, the Chinese were no longer there, so the British killed 69 Ugandans and a bus load of children. Undaunted by his initial action, Wilson called a meeting with President Johnson (played by Stacy Langton) and requested the loan of two regiments of US Marines.

Johnson agreed — or least he did until he realized what he

had done. In what was to become a typical example of American-British relations, he then decided that troops would not be available. Instead, our beloved President substituted air cover for British troops (after all, we know that air support is THE thing to have), for the provision of which he transferred two air craft carriers from Vietnam to Africa.

Fickle Sukamans

During this daring display of brilliance on the part of the US and UK teams, the other groups were also busy. The USSR, under the leadership of Sean Solomon as Leonid Brezhnev, started a revolt among the Sukuma tribesmen in Western Tanzania. Thinking that they had found a stooge for their plans in Chief Chagula, they poured in arms and aid. Things have a way of not working out for players of this game, and Chief Chagula became as friendly with the Chinese, the Americans, the British, and all the Africans as he was with the Soviets. But that is politics.

The Organization of African Unity, under the capable lead of Gary Bornzin, were an interesting team to watch. Uganda proved to be the diplomatic leader of the group, partially due to their eloquent leadership on the UN Security Council. In an unprecedented show of strength the OAU nations created a military force under an OAU commander and took over Tanzania and parts of Kenya. Selassie of Ethiopia betrayed the OAU in independent actions with the Americans. Ghana sat through the

game without a message until the last day and came out as a favorite with the Western nations.

Finally, Portugal and South Africa, led by Fred Schultz and Jim Hall respectively, were the real winners. They played the game to mollify African reaction to their repressive policies so well that they were left alone.

During the last session the game left Africa as the Chinese invaded Quemoy and Matsu, much to the consternation of the Americans, who started bombing the mainland. Such actions as these as well as others such as assassination of Mayor Yorty, the announcement by George Hamilton II that he would not marry Lynda Johnson because she was bow-legged, and the gift to Supervisor Dorn of a '38 Dodge, forced the Control Board to end the game.

The players left the action a bit tired, a bit hungry, and much less aggressive.

Drama Club

Suzanne Novalis is playing the lead in the ASCIT play "The Philadelphia Story" by Philip Barry. She is a grad student in aeronautics at Caltech. In other leading roles are Don Lowe of Ricketts and Jonathan Romney of Page. "The Philadelphia Story" has been described as "a comedy with a lump in its throat," and should provide the drama club with an opportunity to display a somewhat lighter side than in the past. The play is directed by Dan Gordon of E. L. A. Junior College and produced by J. K. Evans.

Famous Physics Professor Dies

Dr. Richard M. Sutton, professor of physics at Caltech and a past manager of the Student Day program, died of a heart attack on March 29 at Huntington Memorial Hospital.

Sutton, renown for making the principles of physics understandable through scientific showmanship, received the Oersted Medal in 1953 for "notable contributions to the teaching of physics." He was a past president of the American Association of Physics Teachers, a fellow in the American Physical Society, and a former director of the National Science Teachers Association.

Author and demonstrator

His book, **Demonstration Experiments in Physics**, published in 1938, has been widely used by high school and college physics teachers for laboratory demonstrations. He co-authored **College Physics** and wrote the recently-published **Physics of Space**, a do-it-yourself introduction to space for pre-college students. One of his more well-known experiments, designed in

1947, demonstrates a nuclear reaction. Many mousetraps are placed side by side with two cork stoppers on each trap. A cork dropped on one trap trips the reaction when the two corks on that trap fly off to drop on two other traps, and so weiter. Those who saw it on a **Disneyland** segment several years ago, may remember this demonstration.

Sutton received his B. S. from Haverford College, Pennsylvania, and his doctorate from Caltech in 1929. He spent two years as a teaching and research fellow here, then returned to Haverford as a faculty member. From 1944 to 1956, he served as its physics department chairman; he then became a professor of physics at Case Institute of Technology for two years before returning to Caltech.

Sutton is survived by his wife, Grace Leeds Sutton, two sons, Robert and David, both scientists, and a brother, James, on the faculty of the American University in Beirut.

DuBridge Speaks

Teaching and Research

"Caltech gets, or tries to get, the best teachers and researchers . . . yet we make clear to every teacher that the student is what counts," said president Lee A. DuBridge in a special address delivered to a mixed audience of undergrads, grads, and faculty in Beckman Auditorium. The talk, covering the teaching and research in colleges and universities, was delivered at 11 a.m. last Wednesday, March 30, as a special treat in place of the usual assembly hour.

DuBridge reminisced two score and eight years into his past when he entered Cornell College in the fall of 1918. At that time Cornell was one of many typical small liberal arts colleges; also at that time the "Great Institutions" only had an enrollment of 5000 - 6000.

In my day

Nearly all of these universities were primarily undergraduate institutions or offered post-graduate work only in medicine and law. The college professor, therefore, was a full time undergraduate teacher with neither time nor money for research. In 1918, to earn a Ph.D. in the sciences, a student usually had to travel to England, France, or Germany.

The change to research at the graduate level was already

beginning by the 1920's, thanks to forward-thinking John Hopkins University and grants from the Rockefeller Foundation for post-doctoral research.

"Also, by 1926 Caltech was already becoming a respectable place to study chemistry and physics" continued Du Bridge.

After 1926, a few institutions increased the number of faculty and decreased the teaching load. In fact it was R. A. Millikan who pioneered the one-half teaching, one-half research plan.

Research continued to grow during the 30's, and of course, brought many new technical developments in the war effort. The most spectacular of these was the atomic bomb.

Before the war, DuBridge was asked by an acquaintance "I've always wondered . . . what are physics?" DuBridge continued, "After Hiroshima . . . everyone knew what a physicist was."

Following the war, the two major factors affecting teaching and research in the universities were the explosions of research and of population. The postwar growth of research skyrocketed until the present time, the government footing a \$1.5 billion bill each year.

1 - 1 mapping

A university's research prob-

Notices

ITEMIZED BUDGET REQUESTS

must be submitted to Sam Logan, ASCIT treasurer, Ricketts House, by 9 p.m., April 11, so the BOD can begin the 1966-7 budget.

FLY A BONANZA BEECHCRAFT to the East Coast for two weeks starting June 4. See Don Blumenthal in Firestone.

THE CALTECH CHRISTIAN FELLOWSHIP

will have the Reverend Charles Hardin as guest speaker this Friday noon in the Greasy. Rev. Hardin is an evangelist who has recently returned from Japan.

PHYSICS CLUB RIDES AGAIN

Next Wednesday night, April 13, at 7:45 PM Dr. Leighton will talk about "The Caltech Infrared Sky Survey". Frosh and seniors, grads and undergrads are all welcome. Nominations for officers will also be made. Refreshments afterwards. So relax and come to Dr. Lauritsen's home, 1559 Rose Villa St. Remember, physics can be fun . . .

MEETING AND ELECTIONS

of the Caltech Amateur Radio Club tonight in Clubroom 1 at 7:30. Interested joiners are invited.

LITTLE AND BIG T EDITORS

are still needed—apply before April 11. A Xerox machine will appear in the Y workroom in two weeks. Senator Frank Church will be in Beckman April 24. On April 14, four Caltech teams will compete in a bridge tournament at UCSB.

Draft Intensified

"Students are on the block right now!" With this remark, Mr. C. W. McCormick, Associate Professor of Civil Engineering and member of a nearby draft board emphasized the urgency of the draft problem facing today's students. Any student who does not maintain his 2-S classification can expect to be drafted, and next year there will be a crackdown on 2-S classifications.

The 2-S classification will be decided upon three criteria: class standing, satisfactory progress, and the upcoming Selective Service test. Students having to take an extra year due to an unscheduled change in option or school, will probably not be considered to be making satisfactory progress and will be left out in the cold.

McCormick repeatedly stated that the upcoming draft test probably would be a major factor in a student's record (especially

a Caltech student) and would often make the difference between a 1-A or a 2-S classification. If he has a good test score even a student in the bottom half of his class can obtain a 2-S. Since the competition is so intense here, these test scores will probably be more important to Caltech students than to any other students in the country. If you are not in the top of your class, take the test, otherwise "your goose is cooked." Upon being asked about the effect of the pass-fail grades upon Frosh, McCormick said that the local draft board would probably consider them all in the bottom half of their class.

The burden of proof is placed upon the individual; therefore it is imperative that all students keep their local draft boards informed. Draft boards have a two step plan for getting informa-

(Continued on page 4)

The Critical Ear

by Sophie

The pulsating rhythm of the Modern Jazz Quartet erupts each evening save Mondays at Shelly's Manne-Hole in Hollywood through April 10. With an appealing combination of blues, classical, and jazz, the quartet is one of the best groups today, undoubtedly worth a trip to Hollywood to hear.

The nightclub, decorated as a manhole might look from the inside, has an age minimum of 18 and a \$2.50 cover charge in addition to a drink minimum. The jazz, however, especially this engagement, is of the finest, and the atmosphere of the place is engaging. Not to mention a number of attractive waitresses.

John Lewis on the piano, Percy Heath on the bass, Milt Jackson on the vibraharp, and Connie Kay on the drums have accomplished an individual and multiple ensemble of improvisation. The piano and vibraharp shift melodies and harmonies, each occasionally highlighting their player's deft talent with solos. The drums carry the percussion while the base blends equally well as a percussion counterpart to the drums and as a harmony counterpart to the piano. As a whole, the quartet produces snappy beats, rambling melodies, and a captivating mood.

The music of the MJQ seems to be partially inspired extemporaneous innovations, and partially the result of intricate and often painstaking composition. There is no question of its artistic value; many of the compositions exhibit

bit symmetries of rhythm and variations on melodic themes to an extent comparable to classical arrangements.

This is not to say that they aren't cool, and don't play "real" jazz. On the contrary, their skill and composing sublimate the effects of jazz itself.

Next week, starting April 12, Herbie Mann's Sextet will perform with Shelly Manne and his Men opposite him on the weekends. The MJQ will end its engagement April 10.

MJQ aficionados should remember that they'll be appearing Friday night, April 15, in a concert to be held in Beckman Auditorium. Get your tickets now!

Other Campuses

by Parker

From the deep South we find evidence of a windy season. The LSU **Driftwood** reports a kite-flying contest, cleverly disguised as a "Flite-Kying Contest," which was held on April Fool's Day. The rules include subdivisions for kites costing less than 25 cents and more than 26 cents, as well as categories for box kites. The judging was to be based on altitude, behavior in the air, length of time in the air, and launching time. Perhaps we need one of these things around here. We could hold it every Tuesday, which is about the time the average Tecker has been told to "go fly a kite" by all the girls he knows!

California Tech

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Delbruck Speaks on Bio-Science

by Ira Herskowitz

Speaking on "Molecular Biology: the Next Phase," Dr. Max Delbruck, professor of biology, gave the first talk this term of the Caltech Monday Night Lecture Series at 8:15 p.m. in Beckman Auditorium. Delbruck originally was trained as a physicist and later turned to bacteriophage genetics, where he was highly successful in beginning the extensive work on phage now being done. His physicist's training was clearly demonstrated in this talk, in which he applied a seemingly abstruse physical hypothesis to a biological system.

Tinker-toys

Delbruck pointed out that although the great work done in

biology within the last twenty years has come from a consideration of biology at the molecular level, a biochemical analysis alone is not sufficient to explain the properties of membranes such as mitochondria, the rods of the retina, the inner ear, and nerve fibers. Applying the models of solid-state physics, Delbruck regarded the membrane as capable of existing in states related to the structure of the component molecules, which are primarily lipids and proteins. For instance, the atomic alignment in a ferromagnetic material would be an analog of the change in permeability of nerve membranes.

Delbruck is currently working with the fungus *Phycomyces*, in order to see whether such a model can be used to explain certain simple sensory tropisms, such as phototropism and an avoidance response Delbruck calls the gymnasium effect.

In his concluding remarks Delbruck summarized his talk as a description of a system in which the physical and life sciences are integrated. In this system chemistry and physics are combined in an attempt to study the relation between membrane phenomena and sensory responses.

More Research

(Continued from page 1)

lems, however, cannot be solved through the government alone, since it takes one dollar of private funds for every dollar of government subsidy. The university must also compete for budding young Ph.D.'s with rising demands from industry and government.

The second problem of present-day teaching and research is the rise of undergraduate enrollments due to the increased demand for a college education and the post-war baby boom. This explosion in undergraduate enrollment has created a serious need for graduate students and professors.

Luckily there are two ways out of this situation. First the boom is only temporary, and will taper off soon while graduate enrollment grows. The second escape is to limit undergraduate enrollment thus maintaining the delicate balance between teaching and research. "Caltech gets or tries to get the best teachers and researchers — and we get them because we have this balance."

DuBridge concluded the speech urging the students to "Make more use of your professors — invite them to your Houses . . . keep them busy. The Student House atmosphere could be a lively intellectual one, as well as a social one."



by Laipis

Spring is here, and in celebration of the wonderful event, the Ice Houses, both Pasadena and Glendale, have real good shows. Since even all you super snakes can't be trolling this soon in the term, it's an ideal time to go and hear some good entertainment. Reservations are a good idea.

The Pasadena show starts with Bob and Terry, a couple of guys who remind me of two-thirds of a Kingston Trio. They do some K.T. type material in a quite reasonable manner, but their best number was a very funny version of the Mitchell Trio's "Typical American Boy," dedicated to all 19-26 year-old 1-A males in the audience.

Following the music are the Uncalled-for Three, a solid comedy group. They're in LA to film a portion of a Kraft TV spectacular scheduled for June 14. They kept the place rocking during their entire act—ranging from some pretty good puns to a Bob Dylan imitation, to a take-off on the Johnny Carson show. It's almost worth going just to learn what radioactive suppositories are for.

Rambling Jack Elliot finishes off the evening in country bluegrass style. If you don't dig bluegrass, go anyway—he doesn't sing very loud and his guitar work is superb. A couple of the best are Woody Guthrey's "Pastures of Plenty" and "Talkin' Blues." Rambling Jack has excellent audience communication—a confirmed bluegrass hater came away liking Jack because it's fun to watch him clown.

Starting next Tuesday, the show changes to the Irish rovers, Stewart Clay, and the Uncalled For 3. I haven't seen the Irish rovers, but Stewart Clay was great last time he was in Glendale.

If you feel like traveling a little farther, the Glendale Ice House has the Dillards and Fats Johnson this week, with the Greenwood County Singers replacing the Dillards on Tuesday. The Greenwoods got reviews from Jace, from Shup, and from me on previous appearances.

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Webmen Beat Pomona

by Woodhead

The Caltech swimming team defeated Pomona 48-47 in a real thriller last Thursday.

The meet began with a bang when the starter fired the gun for the medley relay. Obviously panic-stricken at the sight of a man wearing stripes and walking around firing a loaded gun, the participants began to swim furiously up and down the pool. At the end of the race, the Pomona team was awarded seven points for finishing first, which seems logical enough if you think about it for a while.

After a similar occurrence in the 200 freestyle, the Webmen trailed by eight points 12-4. Pulling the first and most inspired switch of the meet, Coach Emery added frosh speedster Greg Wright to the fifty-yard free. Captain Larry Anderson and Wright took one-two, and Pomona led by only one point 13-12.

At the conclusion of the diving, Tech trailed by three points, and by the time Wright won the back stroke in 2:18.4, the margin had become six points. Maple of



by Fishbone

Well, I was only about one day late last week in talking about the now non-existent Dodger-Drysdale-Koufax dispute. So the salary issue is now resolved.

Look at the future, though. Instead of salary demands, baseball players and other professional athletes will begin making other requests. Now we have the seventh-inning stretch. I wonder what the third-inning beer blast will be like? Suppose the management fails to grant such player requests. The players could counter with sitdown strikes, work slowdowns (Yes, even Maury), or maybe even violence (Down Juan, down!). One thing is sure: the management could never afford to counter with blacklists or scabs.

Rumor has it that if the baseball park in Anaheim is not finished in time, the Angels are going to use the capacious Caltech stadium that can hold all of the latter's fans and still look empty. Is everyone here afraid of spending an hour to watch a decent ball game? If one really wants, he can snake, take in some sun, and watch the game at the same time. Be sports, sports.

Which brings me to a whisper that interest in IH basketball is waning. Is it true that Ruddock might not field a team? Let us not crack at the seams now, gentlemen. Think of the three points you would be handing to some of the other houses. Or better yet, think of that image for next year's frosh.

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Pomona then won the 500 free to put them ahead 44-35.

The two remaining races were the 200 breaststroke and the free relay. Pomona had none of their best swimmers left for the relay, so Tech's victory in that event was assured.

When Henry Dewitt turned in his best time of the year to win and Jim Woodhead, erstwhile wrestler in his first league meet, did likewise to take third, the winning margin of one point was made. The relay team then took the final race by ten seconds to complete the formality of winning the meet.

Tomorrow, the Water Babies travel to Cal Poly, Pomona, to do battle in a non-league meet.

Cricket Starts

"Doc" Huttenback's heroes lost a heart-breaker of a game, 63-65, to the Corinthians Cricket Club on Sunday.

The game started promisingly when the very first batsman for the Corinthians flied out without scoring a run. In fact, the opposition scored only three runs for three outs; unfortunately, the later batters, capitalizing on the second-string bowlers, managed to score a few more runs, but their total of 63 still showed well for the bowlers. The first few Caltech batters, however, did rather poorly. Jim Cutts, a recent recruit to the team, contributed the greatest scoring punch with 21 points. Mike O'Sullivan almost became the hero of the day in trying to pull out the victory. The team was behind, and O'Sullivan was last batter who could get the runs. He scored a total of nine, but the others could not support him.

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Baseball Team Clobbered

The first scheduled conference games last week hit the horse-hiders immediately after the term break, finding the team with a shortage of manpower and smarting from successive losses to Cal Lutheran. Unfortunately, these first SCIAC games pitted the Teckers against last year's league champs from Redlands.

The home game of a three game set wrought havoc in Tournament Park as the polished Redlands nine began their determined march towards another title, dishing out a 20-3 shellacking with the aid of Caltech's worst fielding day with nine errors. Iron man John Frazzini drew the short straw and started the game, but lasted only 1 1/3 innings, yielding six earned runs. The string of moundsmen that followed proved that the Beavers were simply outclassed. The only Caltech offense worth mentioning came in the ninth when Dan Hammos, Alonzo Martin and Les Fetting put together a pair of singles and a double, respectively.

In the Saturday doubleheader at Redlands the Beavers put on a bit more respectable performance, but still losing 6-0 and 13-2. Helberg choked his way through the hot dusty abbreviated first game. Stump Chapyak worked the first two innings of the second game, Fetting finishing. The only response to the efficient

hitting attack engineered by the Redlands team came in the second game when Lonnie Martin cracked a shot over the left field fence to join several balls put there by the Bulldogs.

On Tuesday, the team returned home for a non-conference game with Cal Baptist College, looking to revive their spirits after encountering such a superior Redlands force. Unquestionably the opposition this time could not be considered potent, yet in a very poor show of stick work, the Beavers went down again, 13-5. Only six hits were gleaned by the home nine, several of the scratch variety due to a Santa Claus scorer.

A team of similar beatable character is due in Saturday at 1 p.m. for a doubleheader, and the prospects for the team finally living up to its potential seem imminent; they're certainly long overdue.

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Tennis Tourney

The Scott Tennis Tournament for the Caltech undergraduate championship is scheduled to start April 14. The tennis squad is automatically entered but highly-skilled others may enter by contacting Coach Lamb before April 12.

The Novice Tennis Tournament, open to non-lettermen and non-interhouse undergraduate participants, will start April 14. Eligible players should contact Coach Lamb before April 12.

Jeff Pressing has been elected captain of the varsity squad and Greg Evans as captain of the frosh. The squad is gradually returning to a regular practice schedule. The varsity plays Cal Poly at Pomona on Thursday and both squads take on Oxy on Friday. The varsity plays at Oxy and the frosh compete at home, all matches starting at 3:00.

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Hear Lecture By Moderate CDC Leader

Are you a Sam Yorty supporter? Do you feel that Si Cassidy has been mistreated by the California Democratic Council? If you can answer yes to either of these queries, then you missed a grand opportunity to expound your viewpoint at the SPECTRUM lecture March 29. The guest speaker was Joseph Wyatt, former President of the CDC and present head of the California State Personnel Board.

Easy Chair

Wyatt first explained his philosophy of concern with the methods utilized in improvements as well as with the problem of which changes should be made. He is interested in the 'how to' problems as well as the great thoughts many pseudo-politicians might put forth from their easy chairs. Preference should be given to disciplined thinking over idle speculation. "We will use methods of the past to deal with problems of the future."

After his prepared speech Wyatt answered a few somewhat leading questions. When asked if he felt that the Watts riots were mainly due to negligence by Mayor Yorty, he replied that although Yorty cannot be held totally responsible, he should admit to partial negligence. Wyatt added that Mayor Yorty is quick to point out failure in a job which was partially his own responsibility.

Pub to blame

Later in the evening the speaker was questioned on Si Cassidy's ouster as president of the CDC. Wyatt answered that Cassidy was on his way out months before he received statewide publicity. Although Cassidy's major problems arose in trying to run a statewide organization, it was the more volatile problem of political opinion which received so much publicity.

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(Continued from page 1)

tion: first they ask a person what he is doing; if this doesn't work then they mail him a 1-A card. "It wakes them up." So for your own sake keep your draft board informed; "An informed board is a happy board."

A 1-A card is practically a guarantee of being drafted. "Once you're 1-A then the rest of the process is almost automatic." Whenever you are reclassified you have 10 days to exercise your last right of appeal. If a person wants to make an appeal it has to be made in writing with the board where he is registered. Generally a personal appearance is the best policy, but this would mean an out-of-state student would probably have to fly home.

Don't miss your period

Once this 10 day period is past there is only one slim chance that a student may have his classification changed. A local draft board will receive any new information at any time. A person may send in any information which he feels might cause his local board to reconsider. All such incoming information is reviewed by the board and placed in one of three categories. First if the

board feels it is pertinent the board will reclassify the person involved and send him a new card. If they feel the information is complete and utter nonsense it will be marked "Reviewed — No Change" and placed in his file but will have no effect. If the draft board feels that there is some substance to the new material but not enough to justify reclassification, it will be filed as "Reviewed — Reopened", but the person will be sent a new card with the same classification which reestablishes his right to appeal for 10 days.

Don't go AWOL

If you are leaving the country be sure to tell your draft board, for two reasons: (1) You need a permit to leave the country, without one you can probably get out but you may have a hard time getting back in; and (2) if you are out of the country when you are reclassified you have 30 days to appeal, instead of 10, provided your draft board knows of your status.

Poorer students are already being drafted and real full-time students will be drafted this summer. The only people who cannot be reclassified are those classified 4-F.

Coffeehouse Soon

by Bone

John Eyler, head of the student committee on the proposed YMCA coffee house, said Tuesday that there would probably be some results this term in the form of an experimental setup. The committee will meet next Tuesday with the administration to discuss the possibility of renting a room at Roma Gardens for one term; the results of such an experiment would presumably guide the Institute on any further outlay of money.

The reason for the delay, naturally, can be traced to B & G. Called in as consulting experts on the renovation of an Institute-owned house, their estimate was so high — \$13,000 — as to pro-

hibit the establishment of a coffee house until the powers that be could ascertain student attendance. The Y cannot back it alone, as their largest asset is a car worth perhaps \$2,000 in raffle tickets.

The committee hopes to be able to reduce costs of renovation to a certain extent by consultation with city fire and health inspectors regarding quality of equipment and facilities in the two houses under consideration: one on Holliston Ave. just north of the grad houses, and the other, Prufrock House (that's right), on San Pasqual across from Church. Either one of these would of course be much easier to reach than Roma Gardens.

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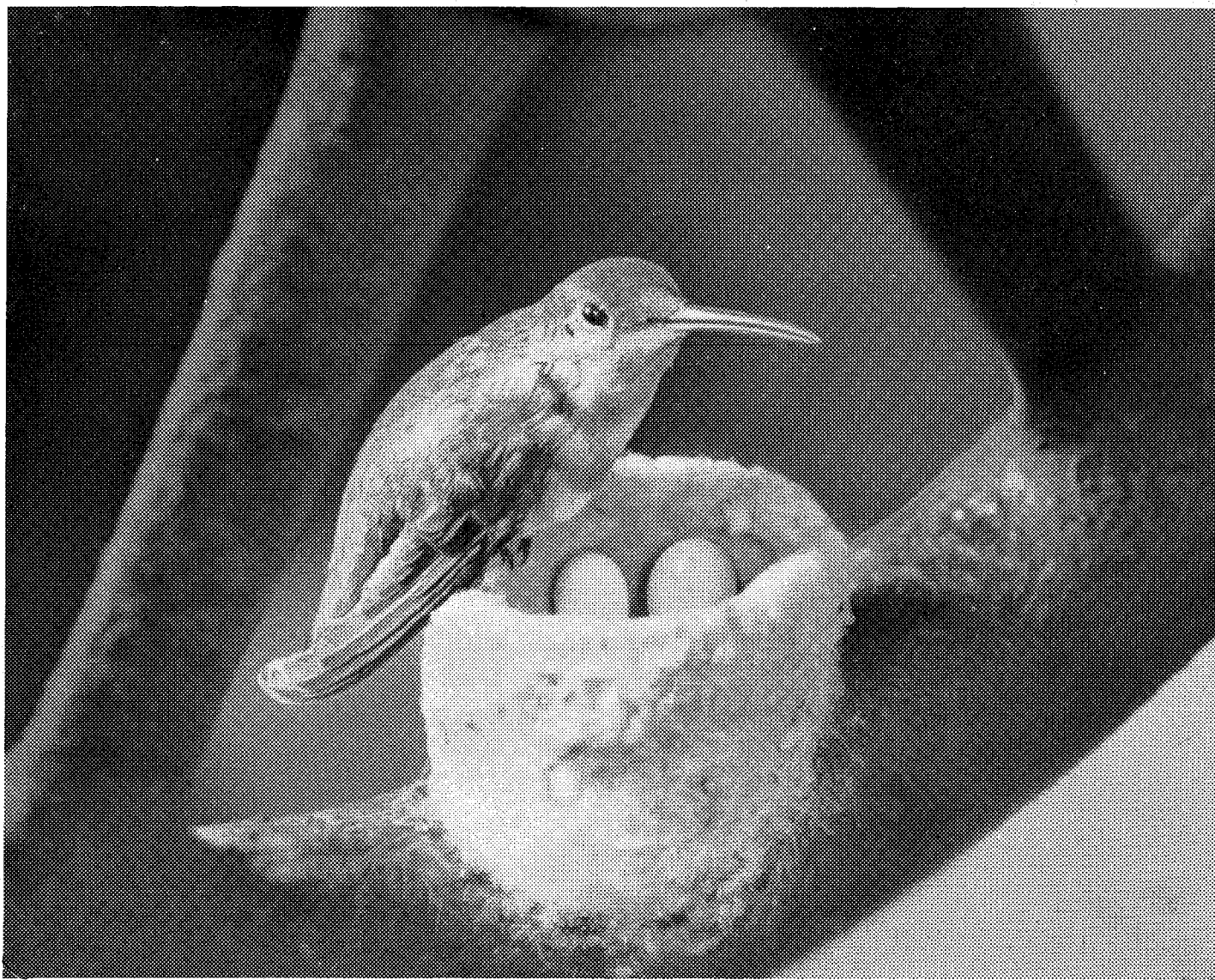


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