



*The California Institute
of Technology*

HUMANITIES
LIBRARY









THE BIG T



1968

THE BIG T 1968 STAFF

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The staff would like to especially thank:

Ed Hutchings, for his advice and photo files.

Jim McClanahan, for his photos, which make up more of this book than we really wish to admit.

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Ralph Ghazarians, for his work with the senior pictures.

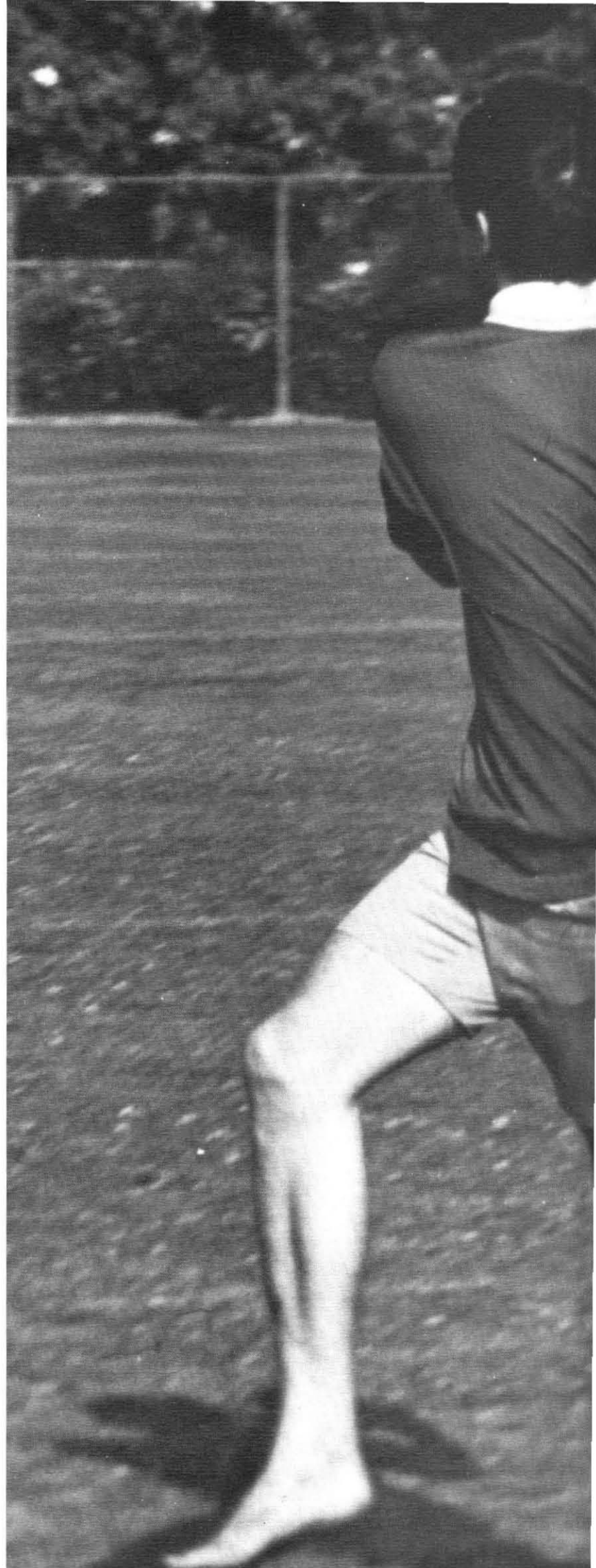




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THE YEAR AT CALTECH

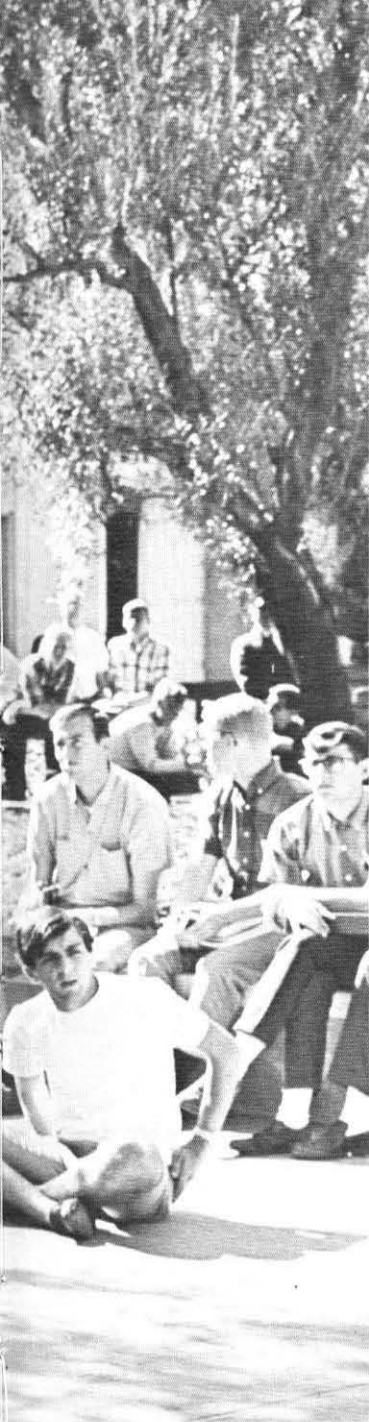




Upon arriving at Tech, the freshman quickly learns that this is not the place of all work and no fun. He discovers that despite how he may feel, some coach thinks he is athletically inclined, or at least more so than some men on the team, and he becomes involved in athletics. If he is not playing them he at least can watch the games and the scenery.



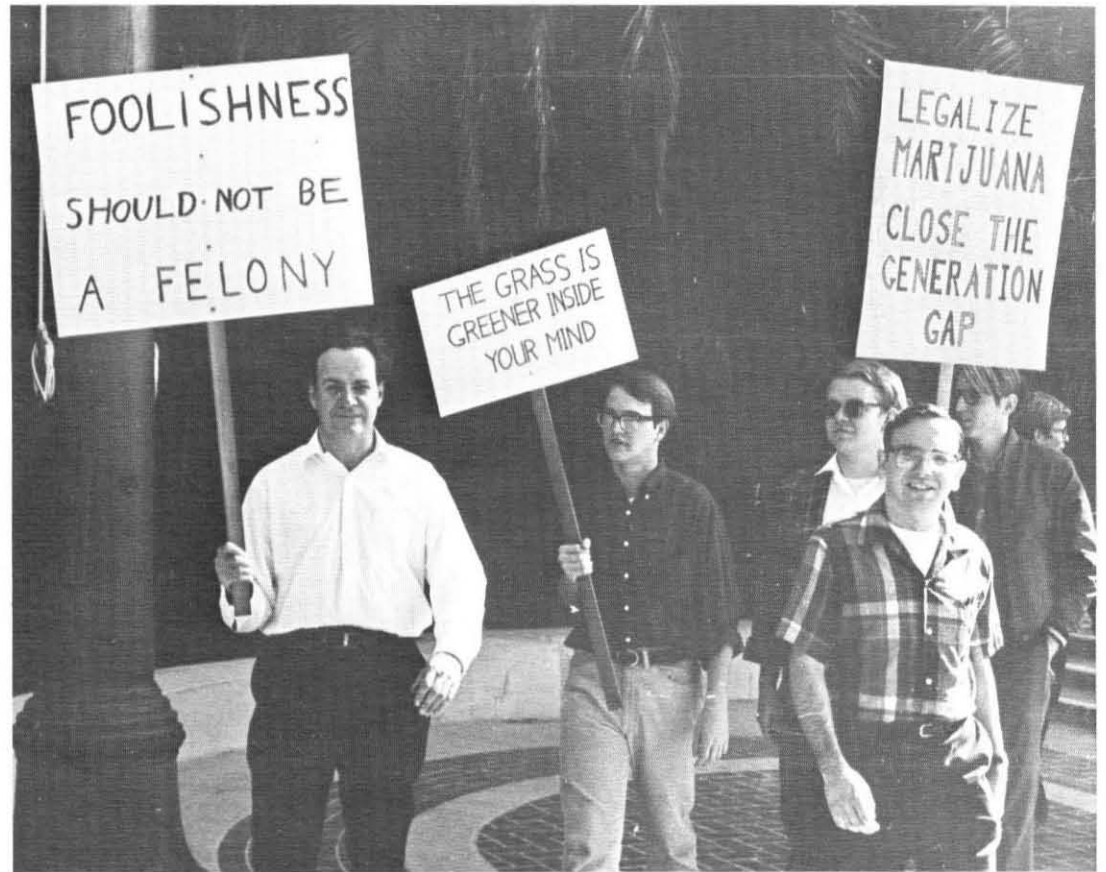




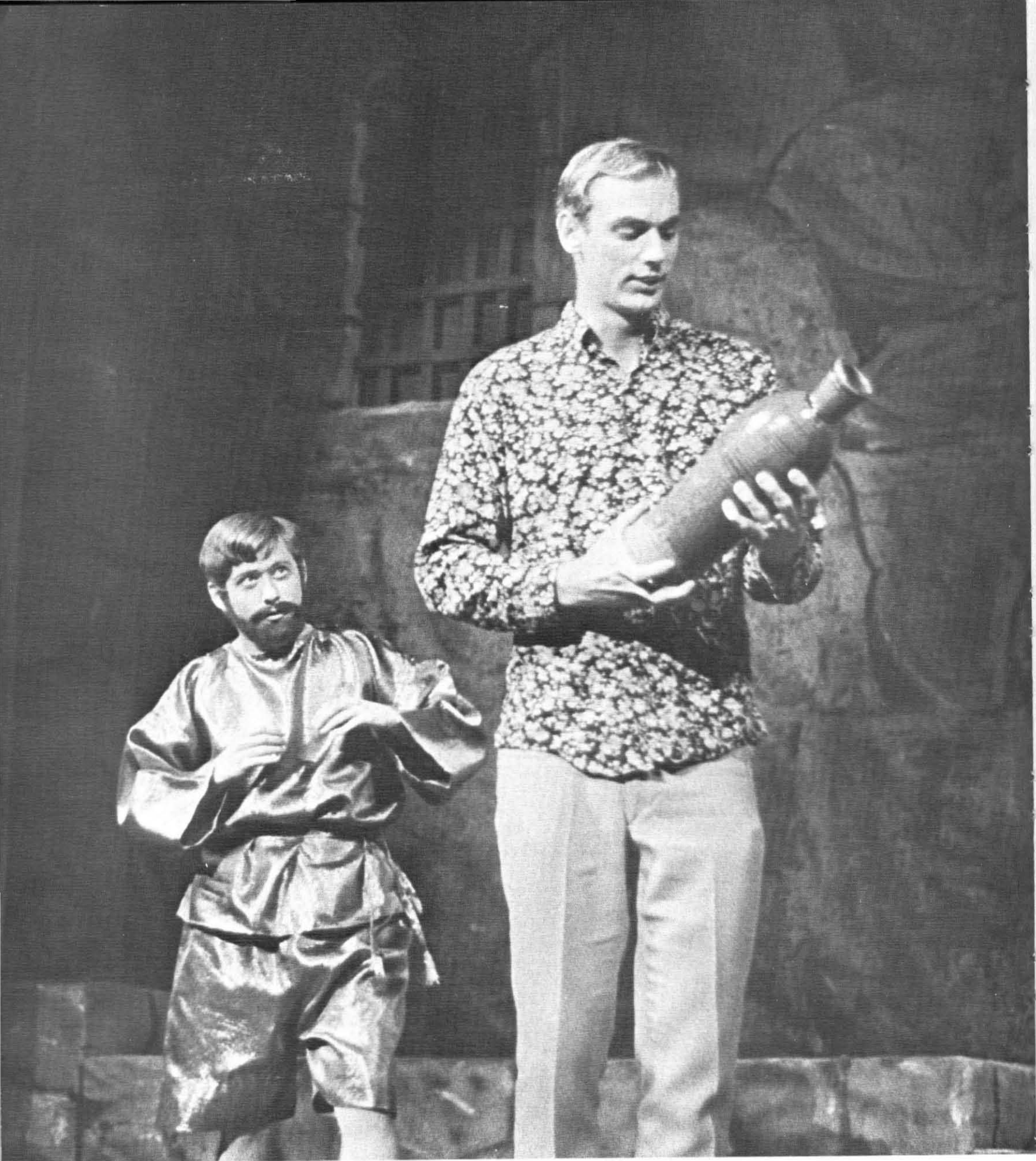
Soon the student finds that there are things more important than athletics to get involved in. He helps the poor as a tutor, or he just tries to understand the negro problem and what he can do to help. He can easily become involved in politics through the local clubs. The dedicated scientists can even stay in their own field and help the ASCIT Research Project eliminate smog.



The student is now intellectually involved with the world around him. He listens to what people have to say. He reasons with himself as to ascertain what is right and wrong. When he makes his decision, he acts to attain his goals, whether over stale food, a good TV show or something more important, he acts.

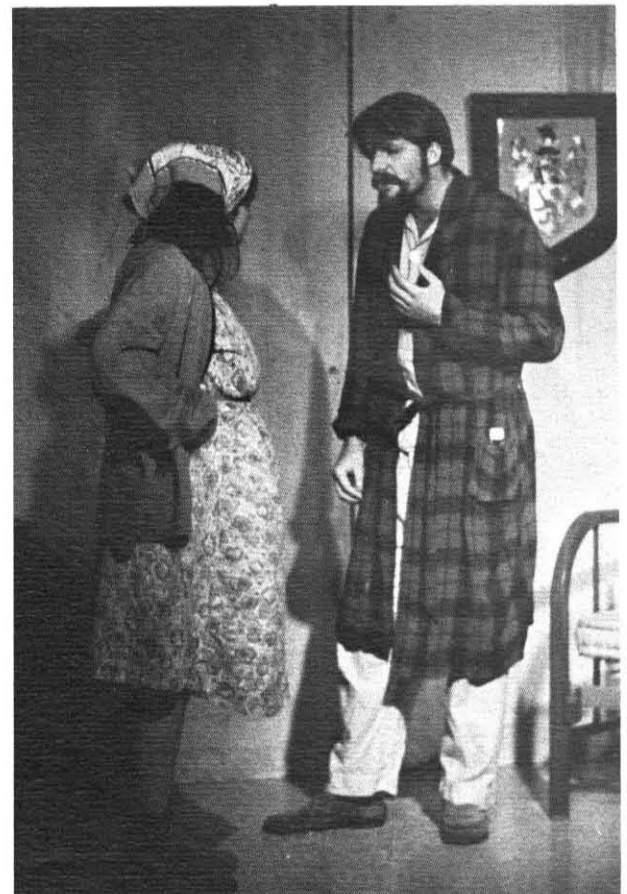




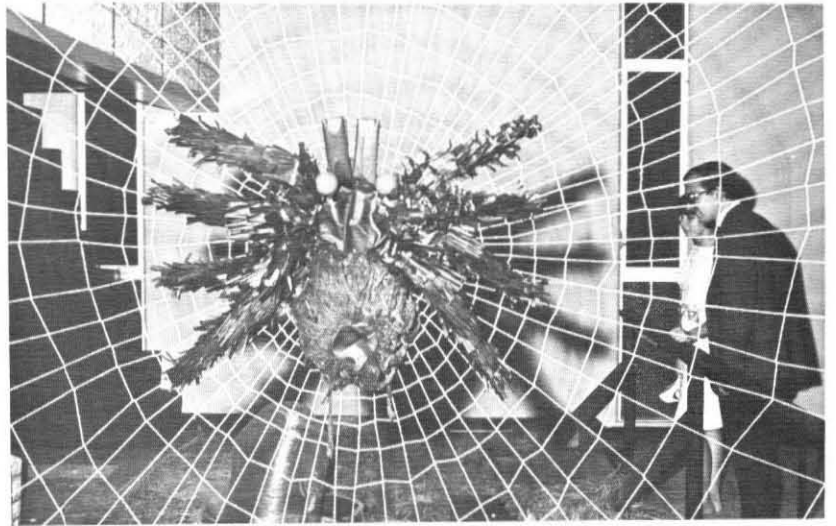


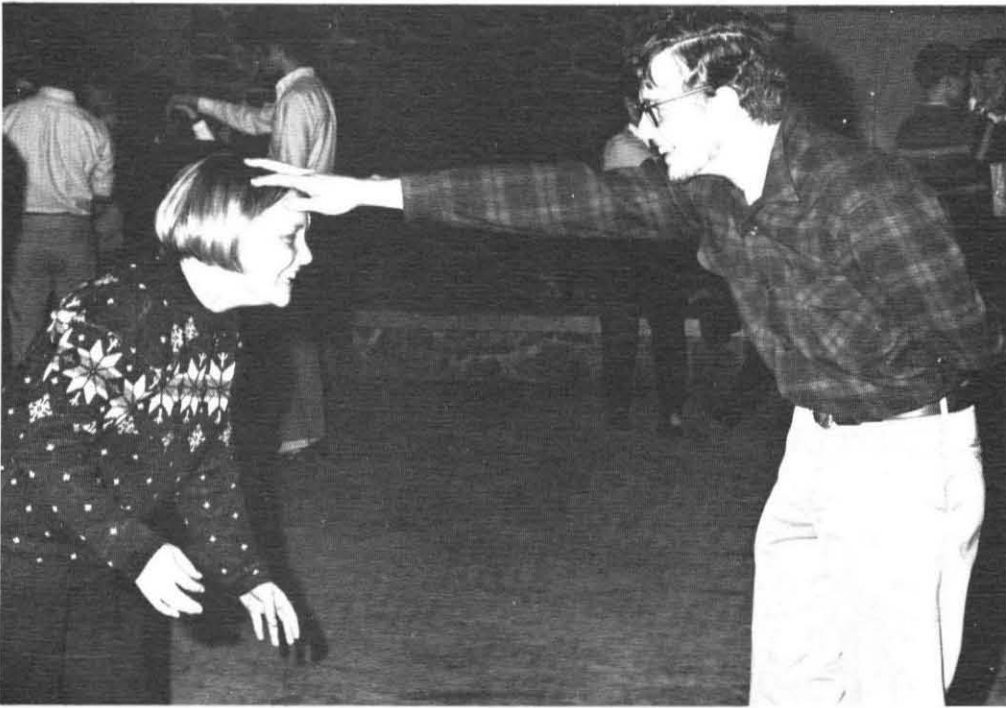
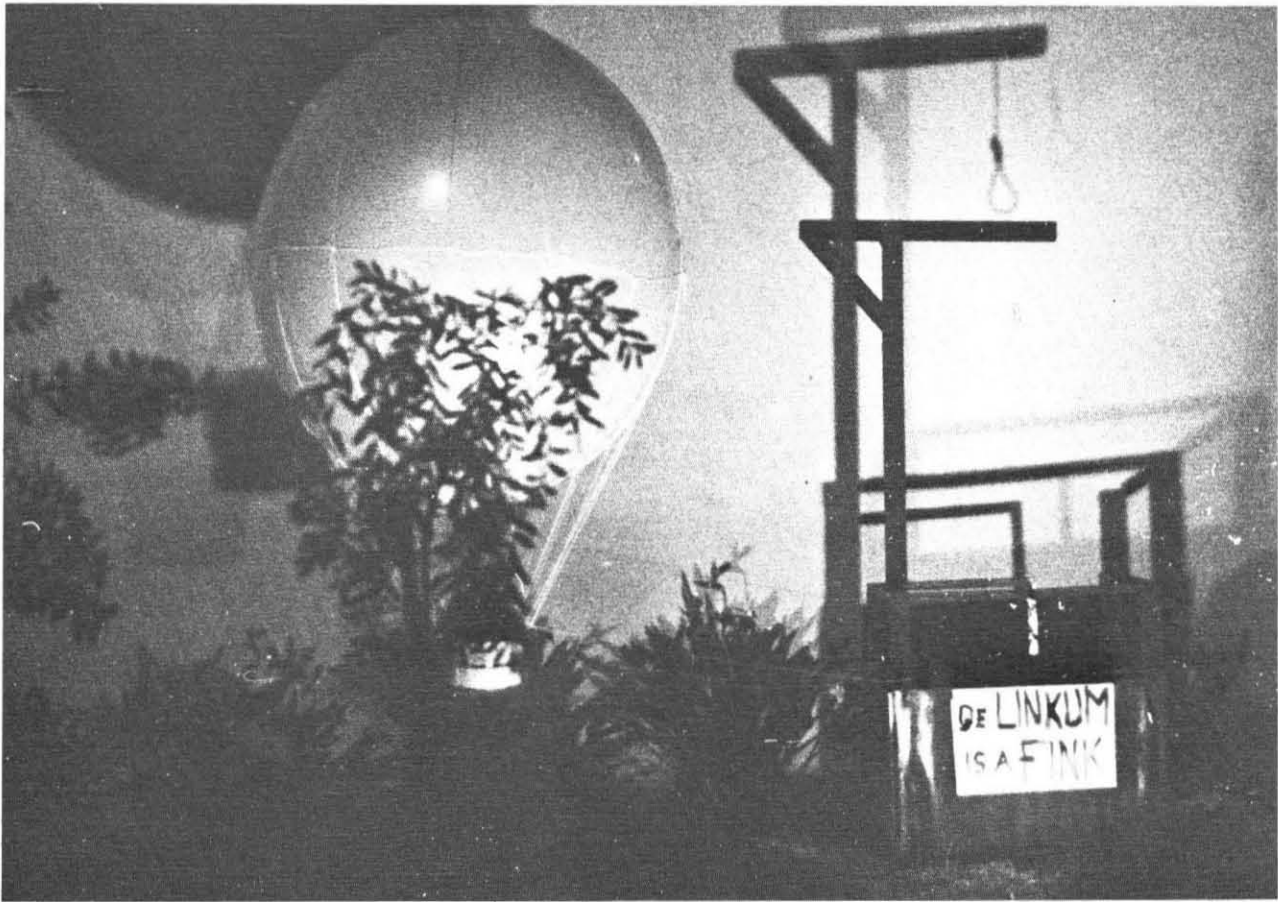


When in a less serious mood, our involved student demonstrates his talents. His audience may be small or large, his reviews good or bad, he still enjoys what he is doing. He is getting more than just a science education.

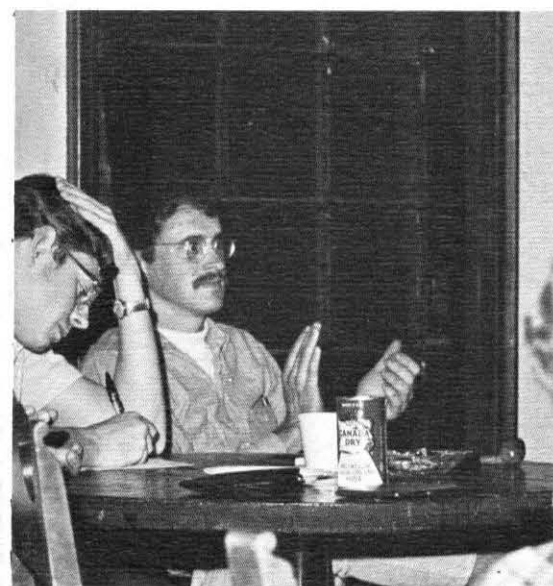


And in the spring time, or any other time it is possible, the focus of attention turns to the finer sex. Much work goes into this simple pleasure, starting with the building of interhouse and ending, who knows where.

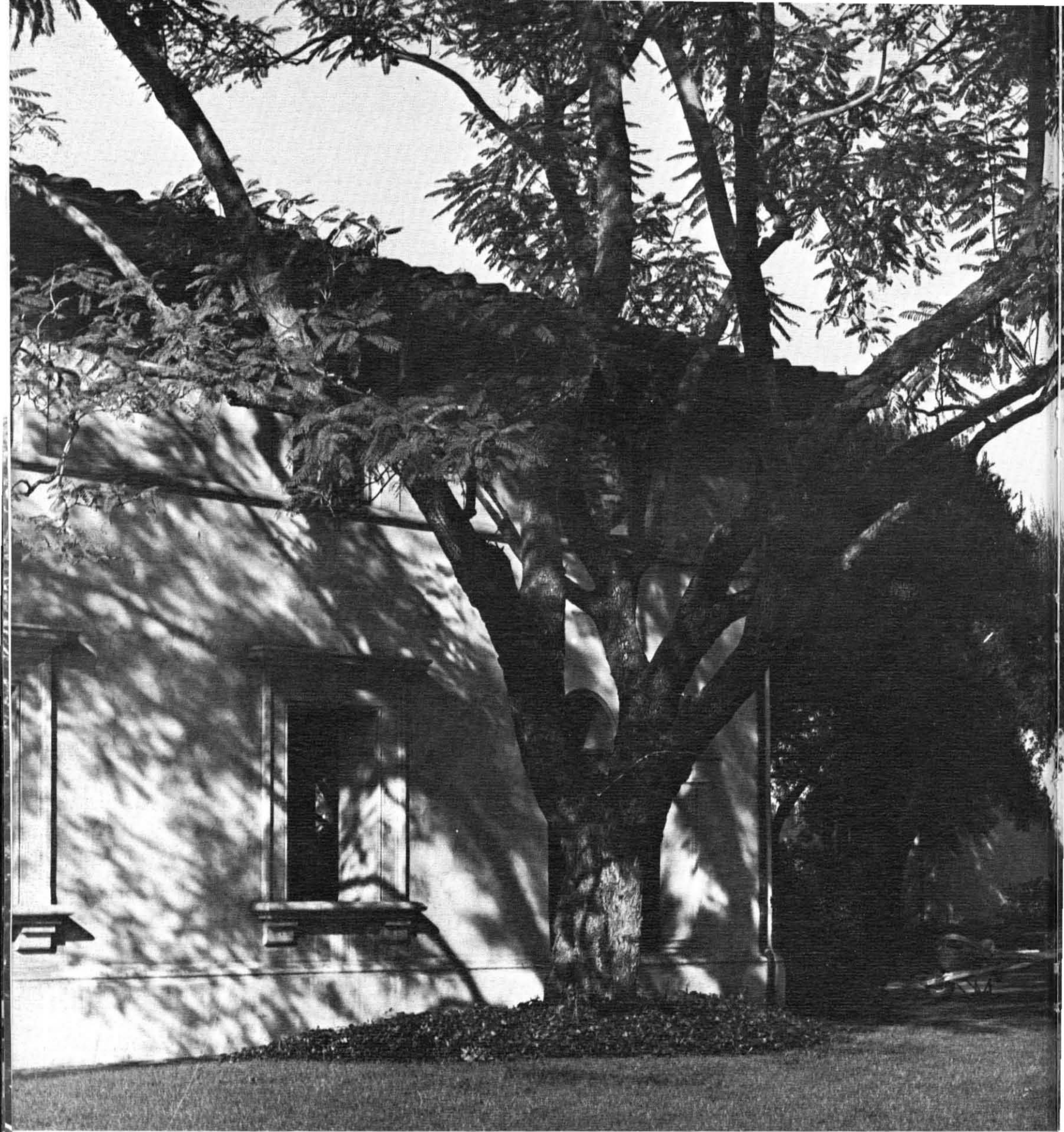








And when all is said and done, our student sits back and just enjoys what is going on around him, he watches the plays and the other students play and he realizes that an era in his life has ended.





HOUSES

RESIDENCE AND DINING HALLS



Seated, Robert W. Gang, Manager. Standing, from left to right: Doris Stephan, Rachael Kirkpatrick, Kathy Pink.



MASTER OF STUDENT HOUSES



THE HEAD MAN: The Master of Student Houses, Dr. Robert A. Huttenback



THE HEAD MAN RECEIVING INSTRUCTIONS FROM THE REAL BOSS, NED HALE, ASISTANT TO THE MASTER

BLACKER HOUSE

Blacker House started off the year with its upperclasses depleted by an off-campus exodus and a random frosh class that didn't rotate (although Kittler gyrated). Garfeteria-style lunches were inaugurated, but initiation turned the troops' minds more to liquids than solids. Besides being all wet, the frosh became Roman slaves and practiced their "Yessuh, Massuh!" daily. The annual Rose princess sign-up was chased off by the fuzz. Schiff was uncooperative as a skont but learned the penalty of disobedience in Blacker's first Millikan pool keel-hauling. A nude Prindaville chased Drews around the lounge while L.D.P. watched in amusement. All the frosh, as well as the new R.A. (J. Edgar—Is he FBI or Scotland Yard???) submitted to the gay festivities, which terminated in the annual lounge run, leaving the lounge smelling like a pit.

Maybe this scared off girls, but social events weren't doing too well. People started turning to other things—**The Castle**, ASCIT (last year's Hell Alley Sadist Society had become the 1967 BOD), or decorating their special interest alleys. Long about November things picked up with the great Interhouse Dance undertaking of "Snow White and the Seven Dwarfs." A twenty-six foot mountain with 5000 square feet of paper (not that mache) wasn't all; there was a wishing well (kerplunk!), a magic mirror (S. Levy, proprietor, J. Henry, witch), and a dwarfs' cottage in the lounge. Blacker Electric set up operations (Where are the used cars?), and materials were furnished courtesy of D. Winbigler, C. McCluskey, A. A. Noyes, et. al. The big night was going fine until the witching hour when the gods decided to rain on it all (the evil witch had just signed off the air). This facilitated clean-up which only took a record three weeks.

On the sidelines, Burton demonstrated a Burton drunk (way to keep your cool, Vince!), Moller bombarded Dabney with his cannon, and Rhodes the student body with his bombast.



Good prelude for another Ivory Soap Advertisement

Interhouse sports were doodling along until the team showed its colors and won two (count 'em, two) straight softball games. Fortunately, none of the swimmers wore their black shirts in the pool and thus proceeded to steam into second place. Then came finals, the ride shattering the innocent ears of the frosh (to make room for the screws).

Second term opened, but Banks and John B. had closed shop, having perfected their sneaking habits through scientology. Johnson found a way out of House Prexy without the ultimate sacrifice A La Guy Jackson and moved off with all of Bob's patrons, leaving Kamm to tend shop. Fourteen guys got just too horny and made an expedition to TJ (Pearson took Sandy back to Oxy early in order to go) where they all made asses of themselves at a donkey show. In a palace coup, Leinger upset Downum as Pope of the Church of Blacker ttoai and put out a long awaited purity test as well as organizing the second TJ expedition (Pearson does a repeat performance).

Hecht returned to find his room wall papered—wall to wall and floor to ceiling. Blacker House's most eligible bachelor Rich Drews was greeted with a belated shower for announcing his engagement to Linda. Then came midterms. They left. The beer blast in Kremlin turned out to be the best (and only) event of the term, with Edgar producing an unending stream of bawdy Scottish Ballads, and Wood taking a mighty powerful eyewash (Here's 192 in your eye!). At the Lucky Pierre contest, once again devitalized, grossness became the disorder of the night. Good ole Meth showed his spirits (fighting and alcoholic), but wound up skinning alive Monahan's Electric.

Politics played an unimportant role in the secession of Lower Doc's from the House (complete with kidnapping of the UCC). But patriotic House stalwarts evened the score with the Great Doc's Stack becoming a mud-slinging event. Finals cut short this sort of doing, but not before elections found the important house offices filled with Willis (H Turkey, Librarian, Pearson (HNC, and Pope), Stern (HRNR), Burton (Ko), Feng and Menkus (H Whale and HM). Minor offices were filled by Miyata, Szolovits, Beck, Drake, Jackson-Franz-Radomski, Hun-Toad-Load, and Winbigler.

Third term opened with a beach party in room 50 and surfer Wood hanging ten. The sophomores had been decimated with the loss of Asmussen and Taylor, but even those remaining assured the House of defeat for the Snake Trophy this year. Hell, undaunted by the departure of members, took up the art of the waterfall, and instead of flooding the deep end of Hell, chose the kitchen and lounge for aquatic effect. B & G immediately swung into inaction. The biggest news of all came when it was announced that the mass of BIG M had been certified at 69×10^{27} amu, exceeding the legendary BIG O's $1/\sqrt{69}$ tons.



BLACKER HOUSE

SENIORS



First Row: B. Baillie, V. Johns, M. Hunt, S. Goodgold, R. Drews, H. DeWitt.

OFFICERS



First Row: S. Goodgold, Athletic Manager; K. Kamm, President; M. Radomski, Treasurer; E. Schiff, Social Chairman; Second Row: E. Anderson, Resident Associate; R. Drews, Athletic Manager; P. Szolovits, Secretary; J. Hecht, Librarian.



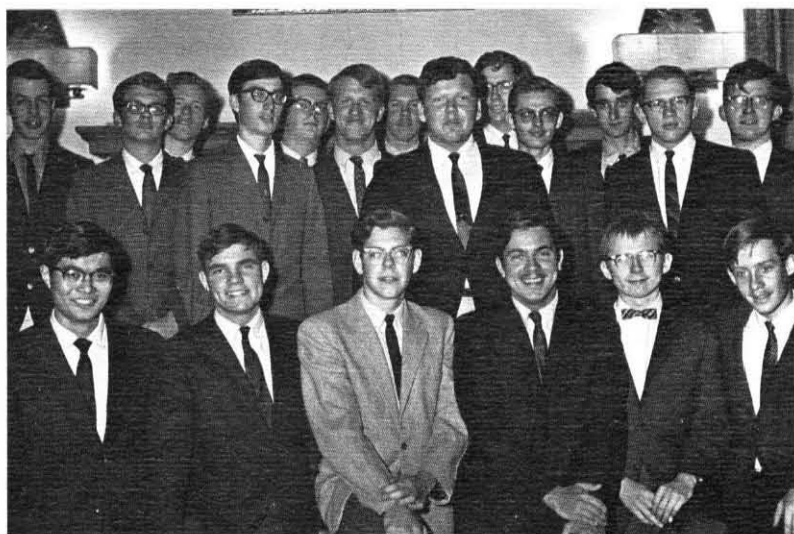
JUNIORS

First Row: M. Garef, K. Kamm, S. Pomeroy, G. Miyata, D. Rintala, Second Row: J. Hecht, J. Feng, M. Radomski, J. Leininger, D. Nemzer. Third Row: G. Jackson, B. Watrous, R. Franz, B. Haas, J. Rhodes.

SOPHOMORES

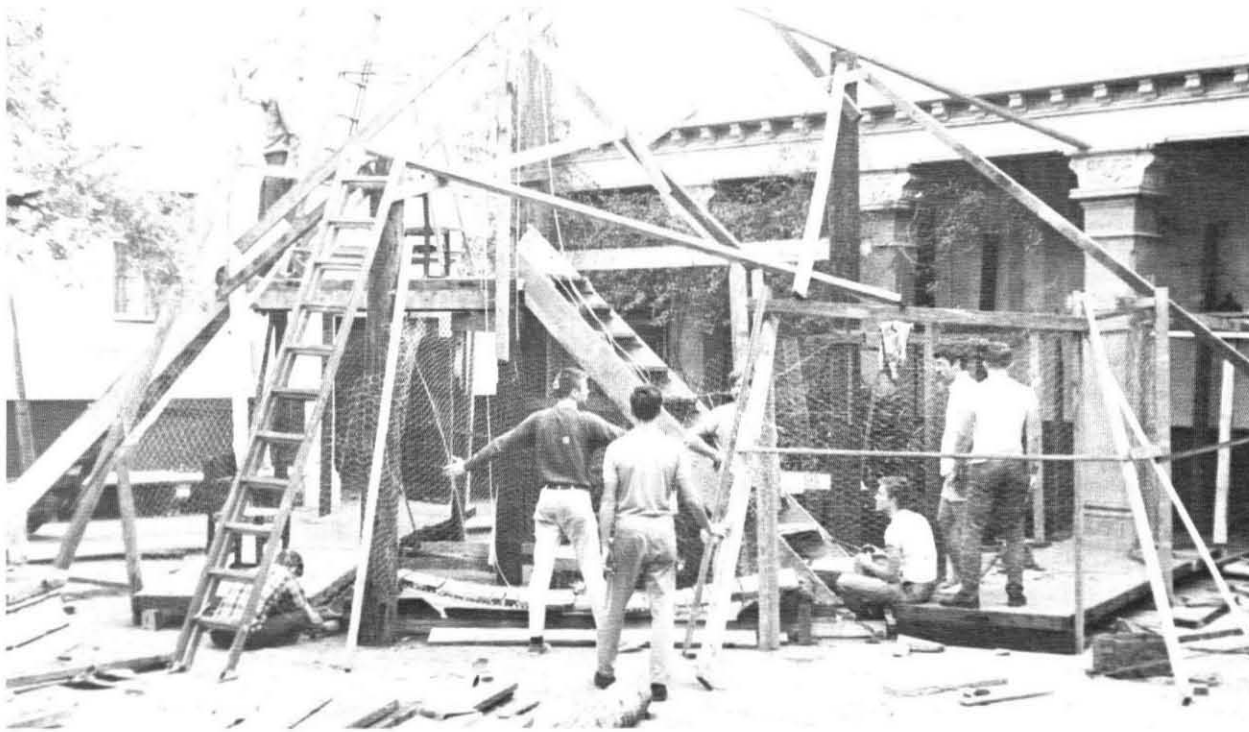


First Row: R. Goodman, B. Hacker, K. Asmussen. Second Row: K. Monahan, C. Todd, B. Drake, P. Mantarakis, J. Henry. Third Row: P. Pearson, C. Reed, P. Szolovits, J. Taylor, B. Jackson, H. Marshall.



FRESHMEN

First Row: R. Pong, E. Schiff, D. Taylor, B. Kittler, C. Anderson, C. McCluskey. Second Row: J. Beck, F. Prindaville, B. Horn, S. Menkus, S. Dashcell, D. Wood. Third Row: R. Willis, P. Tompkins, G. Stewart, B. Flake, T. Weaver, J. Cronin, M. Felland.



"I tell you, you guys got it turned facing **backwards!!!!**"

The new social chairman put up a valiant effort, holding two exchanges which netted four girls each, but were outdone by the waiting staff, which produced Gracious Living by a series of waiting exchanges to and from Browning Hall, Scripps. Troops were also given a taste of old-style efficiency when, one night, Haviland, DeWitt, and the rest of last year's staff returned. Unfortunately, so did some of last year's food.

As usual, Blacker went all-out for Interhouse Sing and was led to victory by Dan Nemzer. The quartet entry (Kamm, McCluskey, New and Schor) practiced diligently and raked in a third. The Empty Set (Flake, Leininger, Moller and Radomski) didn't practice at all, didn't place at all, but got the most laughs of all. The competition this year was especially stiff—at the celebration afterwards, this year, Bob Jackson was also especially stiff after consuming the main part of the keg.

With the Advent of Spring, Teckers' thoughts turned away from snaking toward other pursuits. Barnard and Salima announced their engagements (not to each other, but to Judy and L.D.P. respectively). Meanwhile back at the House, the punting pace was increasingly furiously. Badminton playing went up by a factor of three, as indicated by the bird destruction index ("Hey, Toad, Flip me Another Bird!) Lounge punting declined, with the ninety dB "DEUCE" heard very infrequently. The Hun's super instant supplementary House social program came up with one girl too few (I.E. zero) and the year ended not with a bang but a whimper.



DABNEY HOUSE

Third term 1967 opened with Dana taking up residence in the library and sinking billions into his Lotus in the form of almost hourly repairs. Bob Grant esconced himself in the lounge and continued on in that location into the middle of next year. Horner moved off campus, one term of domesticity with Falk no doubt having disillusioned him considerably; Dabney found itself seniorless as Eyler, White, and Langston removed their 4.3's from the campus, leaving six empty rooms in their wakes. Nevertheless the inseparable two, Brown and Riesenfeld, still roomed together and entertained often.

The entire term was punctuated by giant water fights with the phlegms. Saga spinach was found to be legal under the Geneva convention, despite allegations of biological warfare. Mark Johnson took over the social aspects of Dabney life with an exchange with too many girls, followed swiftly by the annual Feynman party and the Officers Initiation party. Mark Johnson took highest honors in the Dabney House Slalom which pitted Barracudas, Lotus Elans, motorcycles, and Super Schwinns against foot-power Bennetts and Hartsteins . . .

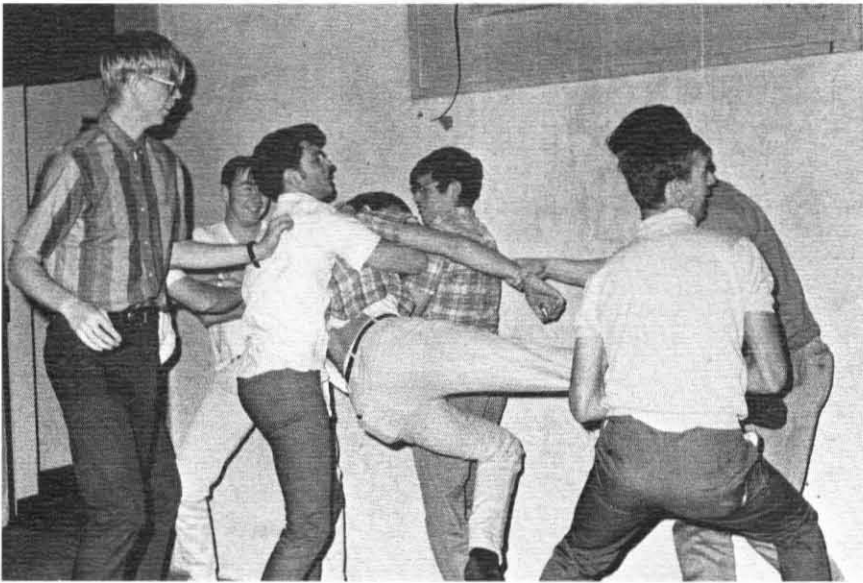
First term commenced without rotation but got off to a warm start with the "Hi Frosh!" annual beer blast. Initiation began somewhat diluted, though still intimidating enough to embarrass the most sensitive frosh (Hopkins, Land, and Zdybel) who retreated to such places as Millikan, the Musicale, and, later, Mt. Pinos State Park, albeit somewhat reluctantly. Rolling their nuts across Millikan pond, the frosh continued their initiation amid cries of "Shower Yourself, Frosh!!" Alley challenges began with Five challenging Seven to "Blow Job," in which a submarine was pitted against a Chinese Brigantine. The contest was ultimately determined by an arm wrestling bout with Horner (elbow dangling) losing to Kalisvaart. A game of "Aesthetics" got under way with Alley One challenging Five (with Horner the impartial judge) and real girls were pitted against pin up pictures as the trolls of Alley Five attempted to defeat Sexy Remy II and his crew with guile. After much brainwork, and the invention of a new unit of Aesthetics (the inverse Falk) the judge arrived at the unexpected conclusion that the contest was a tie, which was broken by (you guessed) an arm wrestling contest, this time between Barker and Nolan.



The Discobolus Trophy



If we survive four years alive,
it's 'cause we eat at Bob's.

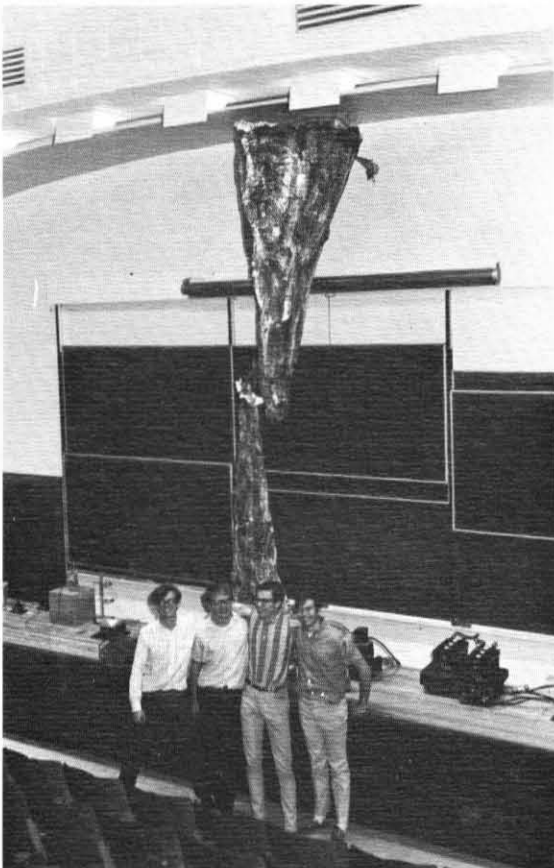


Frosh refuse to clean the lounge . . .

Preparing to become the most sensitive house on campus, Dabney dispatched eight of her problem children to the Brea Canyon Conference held by the YMCA. More on this later. Drean called a secret meeting and proposed that the house build a papier mache "Mines of Moria", the debacle to be in the name of Interhouse Dance. The night of the Dance found the improbable lash-up in surprisingly good order, as snowed dates later testified, and replete with its own set of trolls stationed under the plank bridge, all the better to scandalize passers-by. As decreed by tradition, the night was made complete with a cloudburst supplied by compliant Mother Nature. The phallic remains of Interhouse were suspended in Bridge for the edification of the Sophomore Class (Gee . . . what does Feynman think about that?).

Quick on the heels of Interhouse came the annual Christmas Party, with "Good ole" Bob Grant (in his last public appearance) as Santa Claus, for the third consecutive year, and Ben Barker as the diminutive "elf". As usual, the house overwhelmed itself with its own generosity . . . Trevor Lewis lost his marbles, while DeVries got the crock, which was later donated to Fleming, Brown's gift was a real blast, while Coles got something that looked like apple cider, and Lewis tried the taste test. Vergin got the Jock's prize.

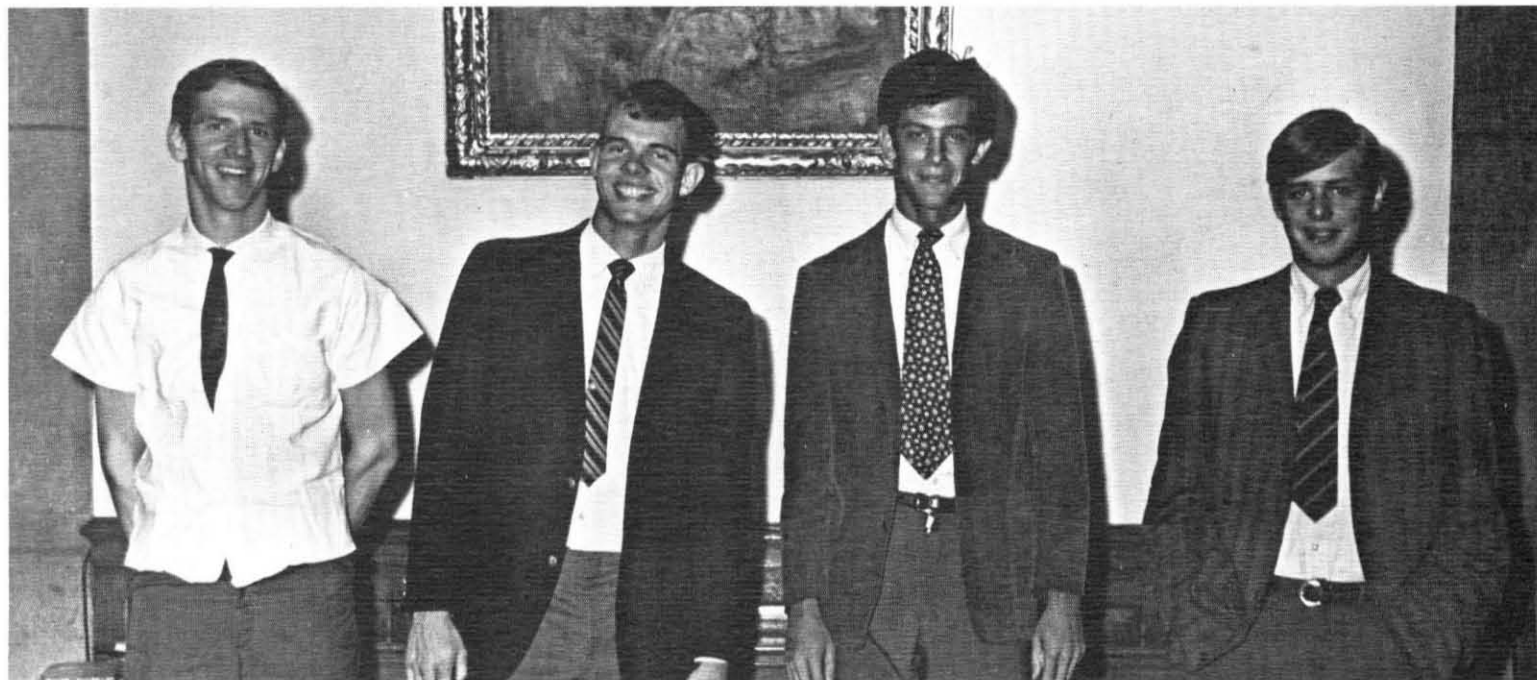
The Rossum liquid N₂ club got well underway with an esoteric experiment designed to research the effects of low temperature on Saga chickens. Thereafter followed a short experiment to determine the effects of frozen Saga chickens on Saga Filipinos . . .



Sampson, Hultman, Coles, Drean

DABNEY HOUSE

SENIORS



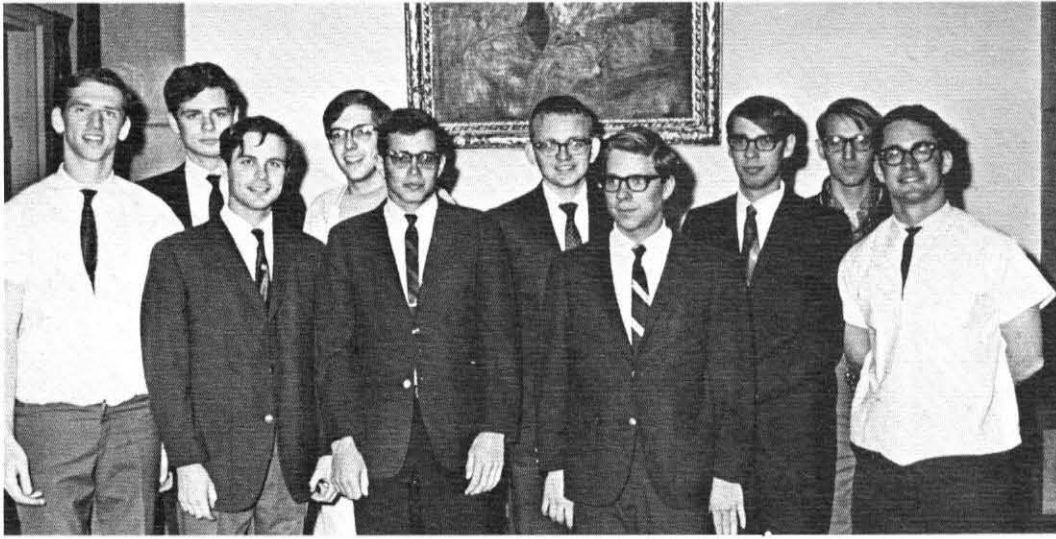
Front Row: J. Dancz, L. Erickson, C. San Pietro, W. Lobb.

OFFICERS



Front Row: F. Klein, Historian; P. White, Social Chairman; S. Horner, Historian; G. Fujimoto, Athletic Manager. Second Row: J. Dancz, Secretary and Head Waiter; E. Murphy, Treasurer; J. Falk, Comptroller; L. Erickson, President; M. Kalisvaart, Vice President. Not Shown: R. Fisher, Freshman Representative.

JUNIORS

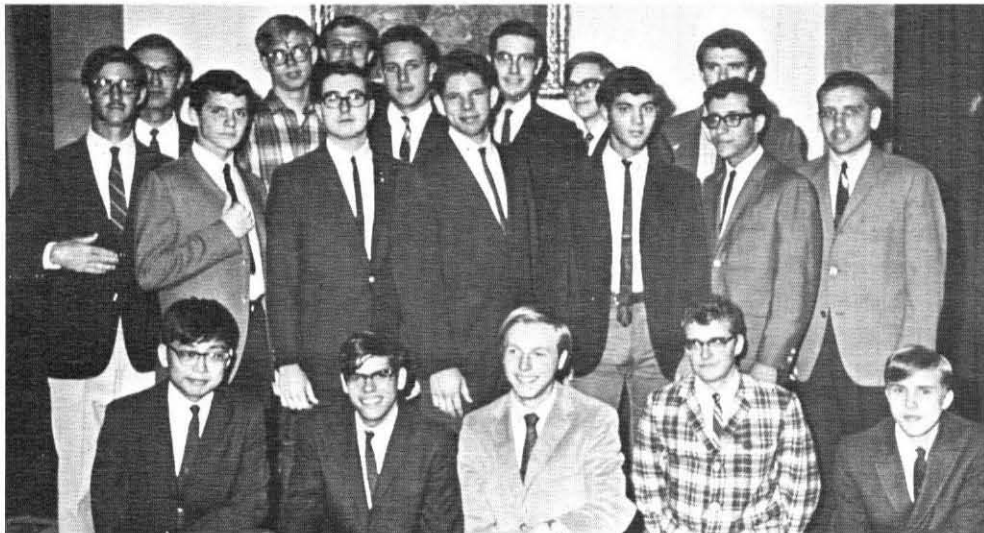


First Row: R. Goddard, M. Kalisvaart, G. Markowski. Second Row: (Including two waiters) J. Dancz, D. Perasso, M. Bartelt, E. Murphy, M. Nolan, G. Fox, J. Lutton.

SOPHOMORES



First Row: (Kneeling) R. Howard, H. Tye, T. Thuan, A. Elkwitz, K. Hultman. Second Row: R. Drean, (waiter), S. Horner, P. White, G. Fujimoto. Third Row: J. Schredder, F. Klein, J. Falk, A. Ogawa, A. Coles, B. Samuelson, K. Edwards, F. Everts



FRESHMEN

First Row: J. Steinhauser, R. Ashley, K. Mathews, J. Justiss, W. Rivers. Second Row: J. De Pauw, R. Graham, D. Pethoud, T. Joseph, R. Fisher, J. Friedman, J. Stuart. Third Row: M. Hutchinson, M. Hopkins, P. McClure, J. DeVries, B. Barker, D. Bauer, R. Krosley.



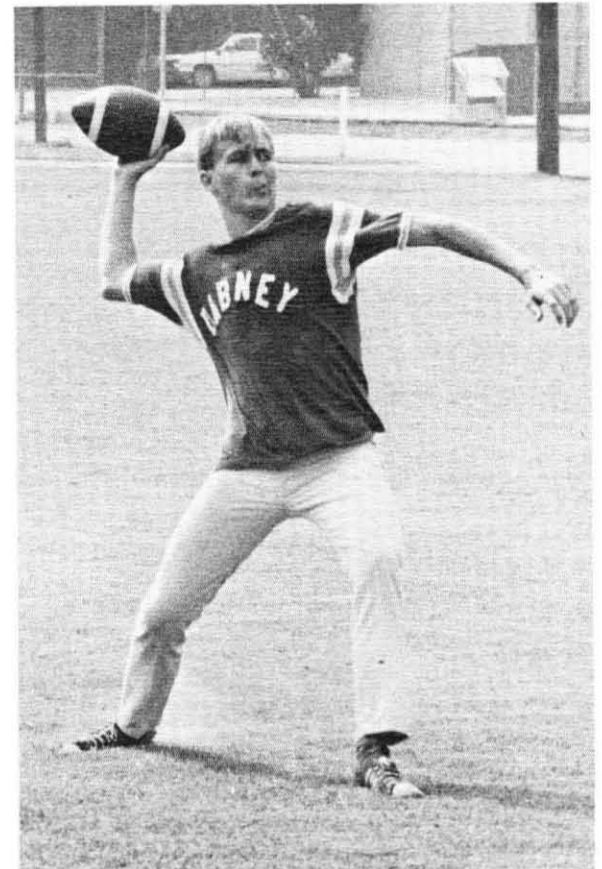
Riesenfeldt and Brown

passed around. The house swapped Stevenson (who moved to the graduate houses) for our very own house narc, one David Locy by name. Being a quiet, normal, easy-going person, no one could figure out any other reason why he would have come to Tech.

Soon after midterms Fisher's Super Feynman Gambling party—party came to pass. Strange to say, the House came out a-head. Our charming host turned out to be the Feyn-est croupier making the rounds of the crap tables. Schwenk & Co. came out considerably in arrears, and Al has been taking his revenge at the bridge table ever since, or perhaps it's the other way around. Erickson won the pool for the trip to San Francisco, which he himself proposed, making it, on the whole, a highly suspicious party.

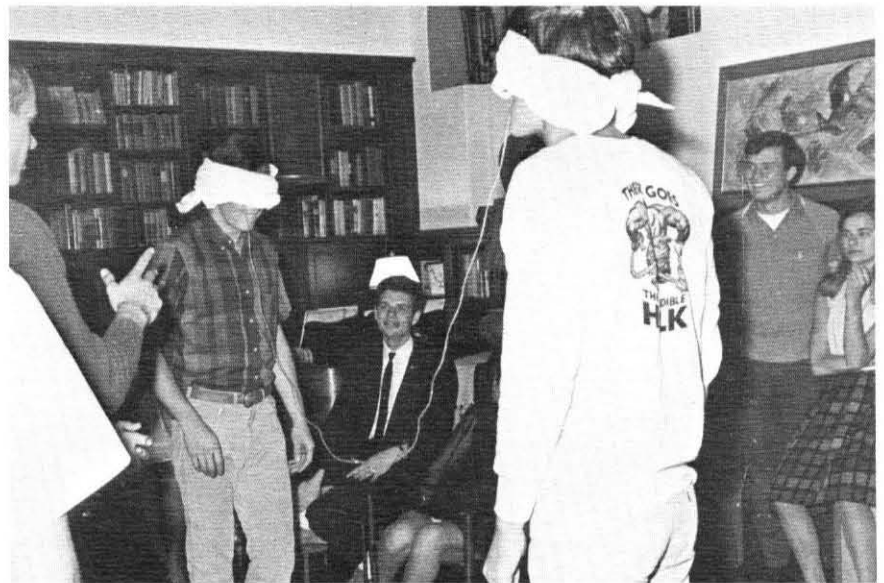
The lounge acrobatics group was formed, Arthur Ogawa performing the grand finale by running into the lounge chandelier on the way down, which is what comes of using Barker and Vergin as a compensating counterweight. Dr. Eells gave us the dope and the term ended amid cries of "foul!" as the Ride of the Valkyries emerged from the windows of every audiophile.

Second term 1968 saw Keola Rose and Tervor Lewis move to inferior houses while Tom Carlson saw the true light. The term began with the first annual "To Hell with Dancz" beer blast and a party—party with Phlegming and Lloyd. Dreaan started the nightly shuttle service to Bob's where Stevenson ordered chili-size and Coles grossed the waitress with chocolate milkshakes with raspberry syrup. French fries were



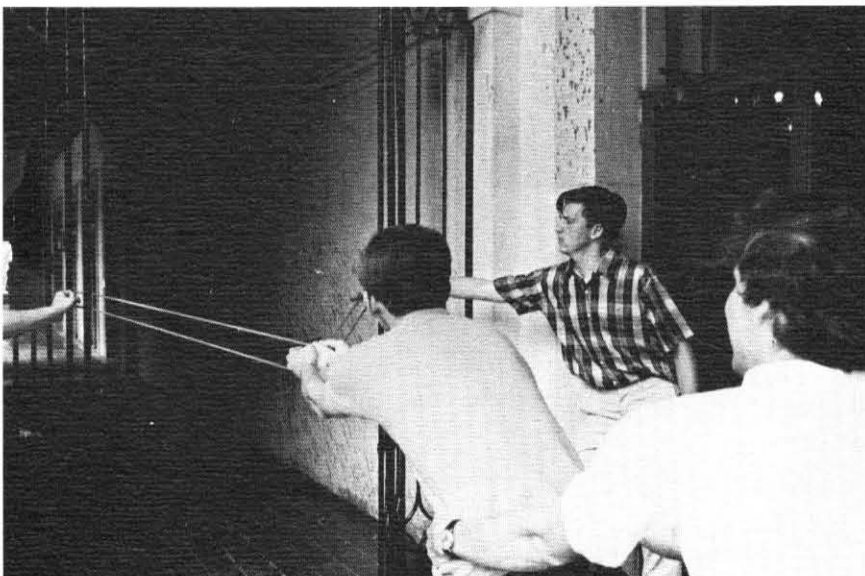
Johnson

And then there was the String-Eating Contest . . .



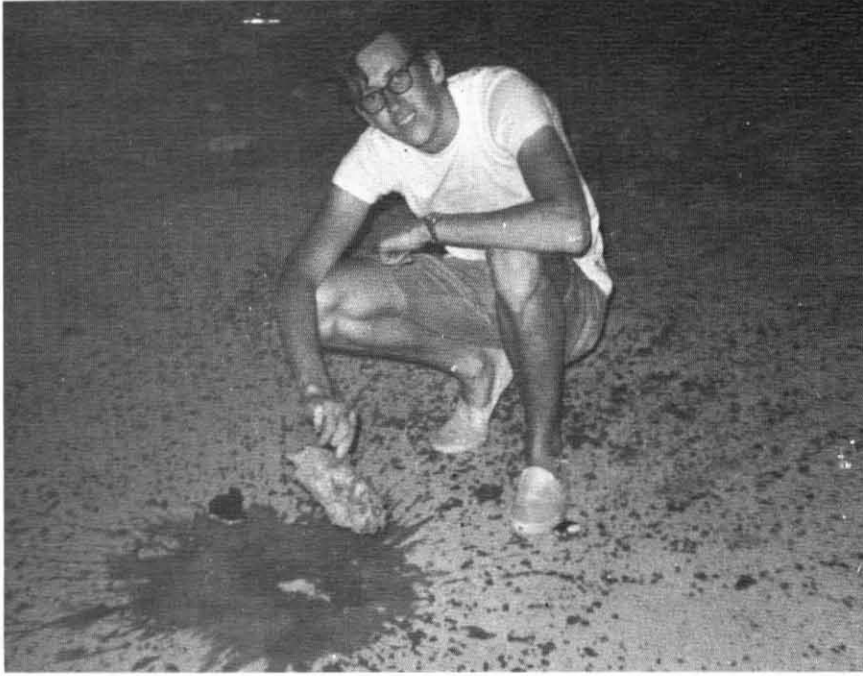
On February 22, Dabney House began one of the most ambitious projects ever undertaken by any of the student houses. This was the first day of the first Dabney House Sensitivity Conference. Twenty-six Darbs and Twenty-two girls from Immaculate Heart College in Hollywood met in a camp near Palmdale. Assisted by facilitators from TRW Corporation and Western Behavioral Sciences Institute the students set to work in Interpersonal Relations. The purposes were many-fold, but many reaped the personal rewards of greater personal awareness of themselves and others. Hopefully we would make Dabney a better place in which to live. The results were much as hoped although no one could describe the experience to anyone who had not attended.

After the conference Dabney became a sort of mass transit terminus for sensitized characters leaving by car for IHC and points west. Horner and Matthews both reaped the fruits of sensitivity, but Horner held the record—nine consecutive days of tripping out to IHC. Our close relations with Immac occasioned that memorable dinner later in the term at which there were more girls than house members. After the conference, it somehow seemed that impromptu conversations held more allure than the traditional comforts of snaking . . . thereby making the last ditch efforts all the more frenzied as finals hove into view.



Killing the Phlegms with catapults loaded with (yecccch) Saga Spinach

FLEMING HOUSE



B.A. examines remains of first watermelon dropped from Millikan library.

frosh naturally hastened to assist his efforts to this end. The sophomores allowed as how Mr. Bradley was a big boy now and could attend to his toilette unaided. A disagreement between the two factions proceeded in directions that would have shocked Emily Post severely. One hour later each group was still trying to persuade the other as to the error of its ways. At this point, **all** of the participants needed to wash their hands. Mr. Bradley finally left, but the frosh prevailed the following night.

One amazing feature of First Term was Interhouse Dance. For the first time within recorded memory, Fleming began redecorating more than three days in advance. Energetic frosh, gung-ho upperclassmen—at least three times as many trolls as have ever worked on Interhouse before—discovered the joys of not snaking for a whole week. Even Charlie got his hands dirty. The net result was Middle Earth—Fleming's version of the wonderful world of J.R.R. Tolkien's **Lord of the Rings**. The lounge was transformed into the Glittering Caves of Aglarond, with a light show by Steve Lewis, Feanorian Inscription by Hetteix, and lots of papier mache by Jim Cook and everyone else. Out in the courtyard, work crews under the direction of Miller created Kheled-Zaram, over which arched a wondrous suspension bridge designed by Davidheiser.

The Men of Fleming really had their work cut out for them this fall. Besides the usual gaggle of frosh ("Boy, did ya ever see such a dumb bunch of frosh!") they had to initiate two other additions — a color TV and a new R.A., Charlie Sammis. Flannery did his usual inimitable job on the TV, diddling the controls to the point of metal fatigue, and the alley 5 boys broke in Charlie to the point of matrimony (shudder!). As for the frosh, pledgemaster Big Al Walker spoke softly and carried an **enormous** bicep. The chastened frosh (twenty minutes under a firehose has a most salutary effect upon recalcitrant froshlings) responded by polishing brass, dampening Darbs, and rolling a hamburger to Bob's (4869 revolutions), and in general behaving more and more like Flems, I.E. gods upon earth.

The Frosh soon got an opportunity to put their new water skills to use. One of the first Social Events of the year was Bill Bradley's Birthday. A gala reception was to be held in the lounge. Mr. Bradley, of course, must first wash his hands, and the



"FLUSH!!!"

Henneth Annun rises in Fleming Courtyard



By far the most spectacular of all were the falls of Henneth Annun, fed by the biggest goddam pump this side of Hoover Dam, a fifteen-horsepower muthah that drew thirty-eight amps of 220 volt three-phase and kept a thirty-foot high, six-inch diameter pipe flowing with 2.2 cubic feet of water per second. Plumbing House experts, notably Walker, Parmelee, Perry, and Forbes, kept the falls flowing faultlessly. As usual, the Fleming House Thespian & Dirty Play Society provided live, throbbing entertainment in the Hall of Fire. The prize-winning script of Dowd and Stanley was revised especially for the occasion by producer Richard Strelitz. Most people soon wished he hadn't. Nonetheless, the evening was a smashing success, the smashing mostly the result of the pie fight finale. Mention should also be made of the Wreck of Numinum, created inadvertently on the Olive Walk by Parmelee, who finally got to build his pulse-modulated fountain.



"Happy Birthday to you-u-u
Happy Birthday to you-u-u
Happy Birthday Bill Bra-a-adly,
Happy Birthday to you-u-u"

FLEMING HOUSE

SENIORS



First Row: R. Davidheiser, K. Yano, J. Stanley, J. Leon, M. Flannery, G. Whitehead, D. Bild, D. Chang, J. Walters.

OFFICERS



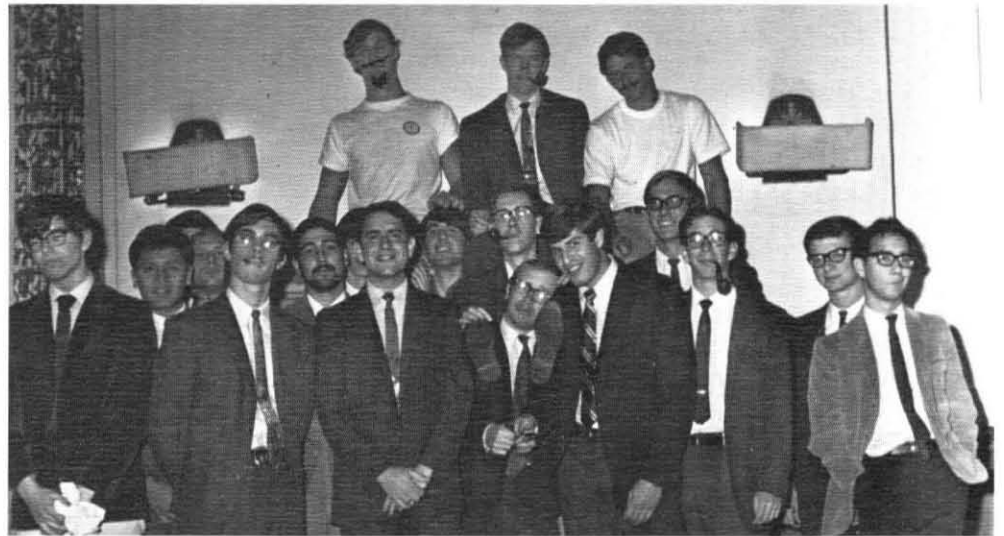
First Row: J. Stanley, Athletic Manager; K. Yano, Secretary; B. Bradley, B. Fitzgerald, D. Smith, Social Chairmen.



JUNIORS

First Row: A. Walker, D. Paynter, J. Forbes, B. Wolley, M. Stevenson, M. Bell, A. Addis, T. Miller, P. Reynolds, J. Seagrave, B. Norton.

SOPHOMORES



First Row: B. Beck, J. Cook, D. Putnick, L. Waterland, B. Bradley, S. Heister, P. Hartzman, R. Strelitz. Second Row: E. Sovero, V. Bresson, L. Lomeli, K. Higgins, J. Seagrave, B. Allen, P. Engelking. Third Row: A. Walker, P. Johnson, P. Reynolds.



FRESHMEN

First Row: M. Abramson, C. Sammis (Resident Associate), B. Delaney, S. Harmon, P. Jackson, B. Bradley, D. Weiner. Second Row: L. Moss, R. Hospelhorn, B. Westervelt, M. Turner, J. Crawford, S. Sipkin, J. Staples, B. Weigel, P. Isaacs, R. Jones, M. Smith, J. Templeton, B. Hwang, R. Alley. Third Row: B. Abarbanel, J. Rapp, D. Smith, B. Fitzgerald, M. Turner, J. Cook, B. Duckwall, J. Belanis.

Second term was sedate—for Fleming House. Perhaps the most noteworthy house activity was the tangle of string figures cluttering the lounge late at night. The casual bypasser was no doubt taken aback at the sight of Forbes dancing through the lounge at 1:30 a.m. exclaiming, "THE CRAB! THE CRAB!" to the cheers of the multitude. It was rather strange seeing five Flems engulfed in string while a sixth intoned instructions for "The Rabbit Giving Birth," with Flannery explaining how it **should** have been done, and Chang and Gillman sitting quietly by the fire producing them at the rate of one litter every fifteen seconds.

House elections were held earlier than usual this year but then Fleming House elections have all been illegal for the last **N** years anyway. The **De Facto** results—John Forbes—President, Mike Bell—Vice President, Richard Strelitz—Secretary, Tom Beaty—Treasurer, Bill Bradley and Don Smith — Social Chairmen, Lonnie Martin, Joe Templeton, Dave Dixon and Richard Burton—Athletic Managers, Martin Smith—Librarian. Dave Chang was awarded the Outstanding Senior Trophy. A minor rearrangement in the power structure occurred when Beaty moved off-campus, and Strelitz took over the Treasurer's job and Steve Heisler became Secretary.

More important than the yearly reshuffling of graft was the resurgence this year of two glorious institutions—the Women Are Evil Club and the Inter-Alley Challenge Trophy.

Especially in the last few years, Fleming Social Chairmen (BOOOOO, HISSS) have insidiously managed to insinuate **women** into the lives of an alarming number of unwary Flems. In the nick of time, as it were, Miller leaped into the breach resurrecting the WAEC and thundering the evils of womankind upon the heads of awed frosh and repentant uupperclassmen. Despite occasional lapses (his action during the Chatnam County Liberation Day celebrations will remain unreported here) and a dramatic impeachment attempt, Boss Tom has remained steadfastly dedicated to the high principles embodied in the historic organization, leading the Men of Fleming in the correct paths of right thinking and action.

The history of Fleming Inter-Alley competition is long and distinguished, but unaccountably dormant these last few years. This spring, however, competition has been revived. It began with an All-Alley struggle in beer consumption, won by the lushes of alley 6. Further competition between champion and challenger has proved only



Fleming House Treasurer and Vice President during important ExComm meeting . . .



"Alright Dum-Dum, now you try it, but gently"

the Men of Fleming look forward with anticipation to winning Interhouse, enjoying the summer, and returning to another batch of unbelievable Frosh and another new R.A. The faces change, but Fleming remains Fleming — Olympus amidst a puny world.

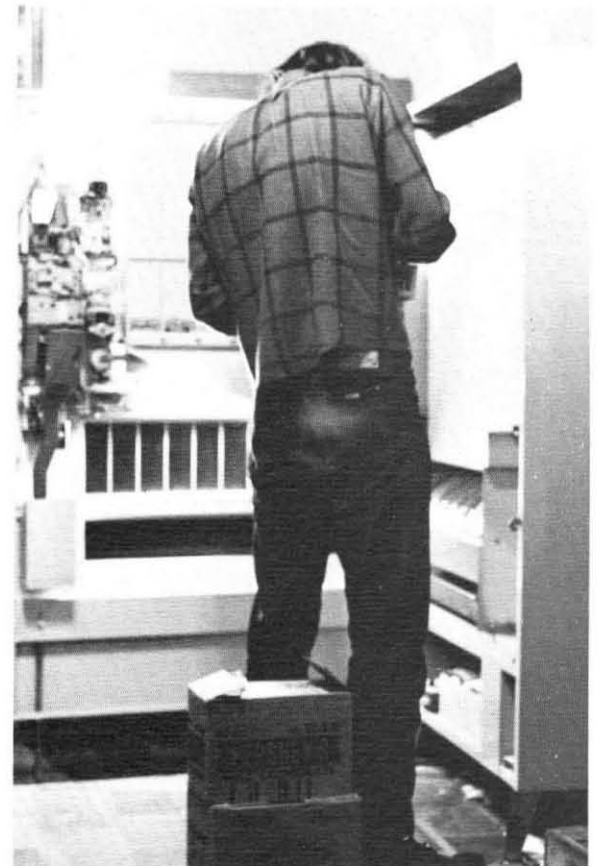
that the alley 6 trolls are better at consuming, excreting, and traversing liquids than anyone else in the House. The new competitions have already produced exciting spectacles—Bradley's 8 points, Waterland's endless stream from Upper 5, Templeton's vain efforts at mouth-to-mouth resuscitation of a dead air mattress—to name only a few.

Naturally, Fleming House has not directed all of its athletic efforts inward. The Big Red Athletic Machine did not suffer from a lack of talent this year. The results do not compare with former years, more as the result of occasional bumbles than of poor athletes. Nevertheless, as this is written, Fleming has an excellent chance of retaining the Interhouse Athletic Trophy, having placed first in swimming and softball and second in basketball, tennis, and track. (House Editor's Note—This prediction didn't come true, with Fleming bowing to the clear superiority of Page) It is difficult to single out individual stars for mention, but certainly Jim Stanley did an outstanding job of coaching and managing, especially in softball and basketball.

Third term Olympiad was its usual rousing success and managed to involve the great majority of Flems in a day of vigorous physical exercise. The Senior class proved its greatness once again by taking first in shot-put, relay, basketball, and volley-ball (tie) and coming in second in softball and swimming for a first place in the overall standings. The Sophomores came in second and the Frosh third. Even though they had to forfeit several events because of a lack of enough bodies to fill out some teams, the Juniors managed to finish a strong fourth.

As this Saga (no relation to the late, unlamented) goes to press, the Men of Fleming look forward with anticipation to winning Interhouse, enjoying the summer, and returning to another batch of unbelievable Frosh and another new R.A. The faces change, but Fleming remains Fleming — Olympus amidst a puny world.

CAPITALIST SWINE!!!



LLOYD HOUSE

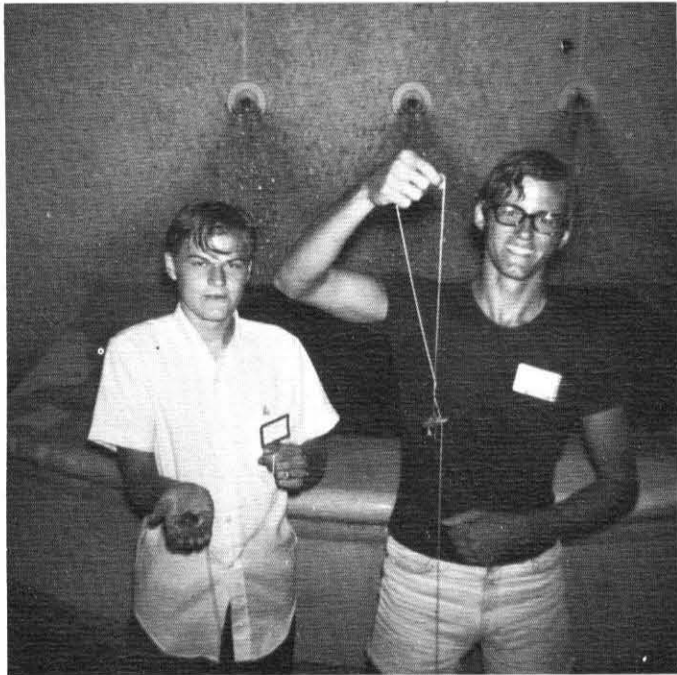
(The following report has been obtained from an anonymous source in the Master's Office. It has been reprinted here for the benefit of those unfamiliar with the psychopathological characteristics of Lloyd House.)

FROM: Dr. Kenneth W. Eels
TO: Dr. Robert A. Huttenback
SUBJECT: Lloyd House

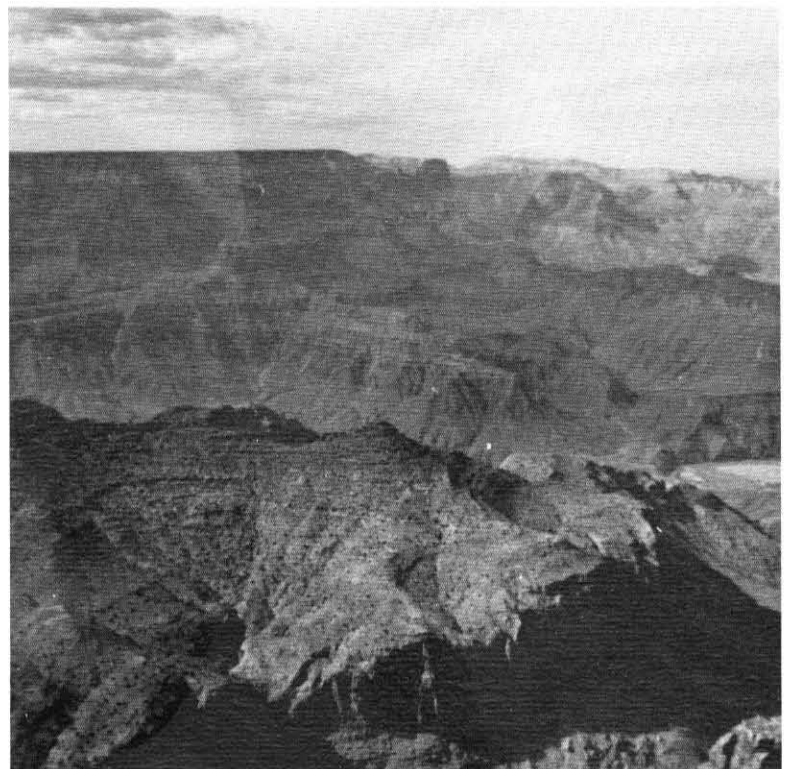
Dear Bob,

Lloyd House first came to my attention third term last year when rumors of the "Second Annual Roman Toga Dinner" reached my office. This unique festival apparently required that the out-going President, Robert Libero Silio Piccioni, be assaulted by a house membership armed with cream pies. The experience forced Bob into exile—an Elba sign on his door and piles of computer paper on his desk. A new man, however, arose to meet the challenge of guiding the future of Lloyd, a man who, thanks to Chops, was destined to be enshrined in house tradition as the House Norm. The Interhouse sports season ended with Lloyd's winning a narrow victory over Page in the final game; the end result was a tie for second place. I also received reports of a certain senior UCC—Buckholtz, I think his name was—who hung an "I'm Finished" sign over his door the weekend before Senior Finals week. As I understand it, his alley members sealed up his door with computer paper a few nights later. The year ended in a burst of activity designed to prevent any useful work from being accomplished, but the Men of Lloyd survived their trial by ordeal of finals, and departed with traces of normality attached.

Made curious by the occurrences described above, I decided to do further research into the Lloyd character. Most of the returning Lloydies were psychologically unprepared for the class of 1971. I was able to take a few notes while hiding in the maid's closet: "35 FROSH!! How can they give us 35 FROSH??? There's only 33 UPPER-CLASSMEN on campus!" "Kraus, who's that guy next door to you—A refugee from the Lakers?" "Have you seen that monster next door to me? Give me a drink, quick." Only the devotion to duty of the House Norm and the abundance of sophomore football players prevented a frosh coup.



"Hey Meester, only 50¢ for turtle autographed by Eddie Loh!"



Lloyd as the administration sees it.



No more dress meals, or else . . .

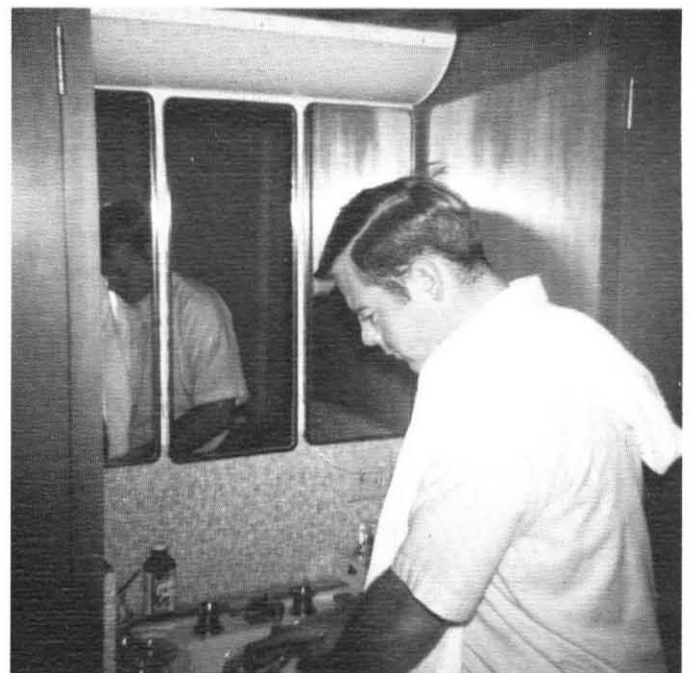
Interhouse was received as usual — with great surprise. Artistic talent seeped under the doors, into the lounge, and onto the walls. Madsen's ultraviolet neuron, Keller's praise of Torrance Beach, and a genuine vulture crossing welcomed visitors to a psychedelic world. I'm not saying the Lloydies did a last minute job, but I did ruin a suit when wet paint from the giant mushroom came off. They kept showing an experimental film from UCLA with the song, "The skies above are clear again . . . Happy days are here again." The first time through an Indian Massacre appeared on the adjacent screen. The second time it started to rain. I'm still trying to figure that out.

At this point I had no alternative to a detailed study of all aspects of Lloyd life. I began by putting the lounge under surveillance on Sunday night. At approximately nine o'clock half of the house members appeared in front of the TV tube. After the Smother's Brothers and Mission Impossible, the lounge became almost empty. I got something to eat and returned at two a.m. Nix was asleep on the couch, while Vance and Meo concentrated on the characters of The Mummy's Tomb. Vance — "Hey, Meo, that ubiq is Fred Jones. He played the used car dealer in two old Charlie Chan movies." Nix, awakened — "Yea, Vance, but who's that third guy on the left?" Vance — "You mean Ralph Randolph." Nix — "No, Vance, He's Ralph Randell." Hautzik enters with five tennis balls — "Catch, Vance." Meo stays with the Mummy while the remaining lounge rats turn the Lloyd zoo into a circus. Hautzik switches to juggling a football, a golf ball, and an ashtray. Vance and Nix balance an umbrella on their palms and toss it back

and forth. The early morning silence is broken only by the breaking of glasses, bottles, and lamps.

I decided that I should not judge a whole house on the basis of just a few members, so I resolved to observe the whole house at a meal. My cover was a job as a food service cook. I was hired—no questions (including qualifications) asked.

Whitely, banging the table with a sugar bowl—"Who stole my gavel?" No answer. "Are there any announcements?" Prestwich—"Oh, boy! I have a treasurer's report. The house is \$400 in debt, and B & G is threatening to charge us \$300 to replace two broken chairs, so we're not so bad off this term." DeVinny—"The house list will be out in a couple of weeks. After all, there's over three weeks left in the term." Woodhead—"There will be a UCC meeting at 10:00 tonight. We're gonna kick the whole house off campus." Kraus—"There is going to be a social event in Lloyd House this Friday Night—with girls. This may be your only chance this term to see a girl at a Lloyd Exchange, so come." Frost—"Lloyd has just won first place in Interhouse tennis." Applause. "Which helps make up for our impressive turnout for Interhouse swimming." Louder applause. Carroll—This weekend,



Steinke cleans up. Oh, Boy!!

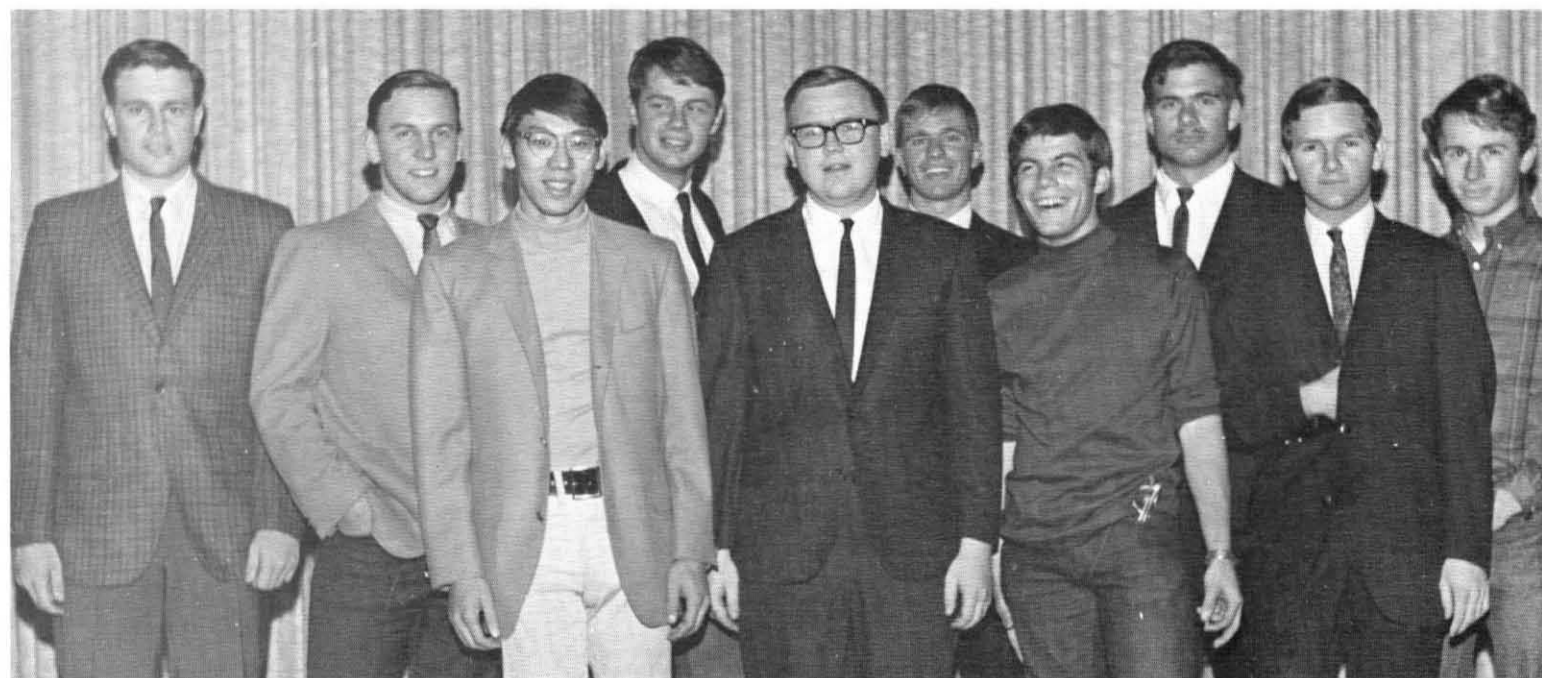
LLOYD HOUSE

SENIORS



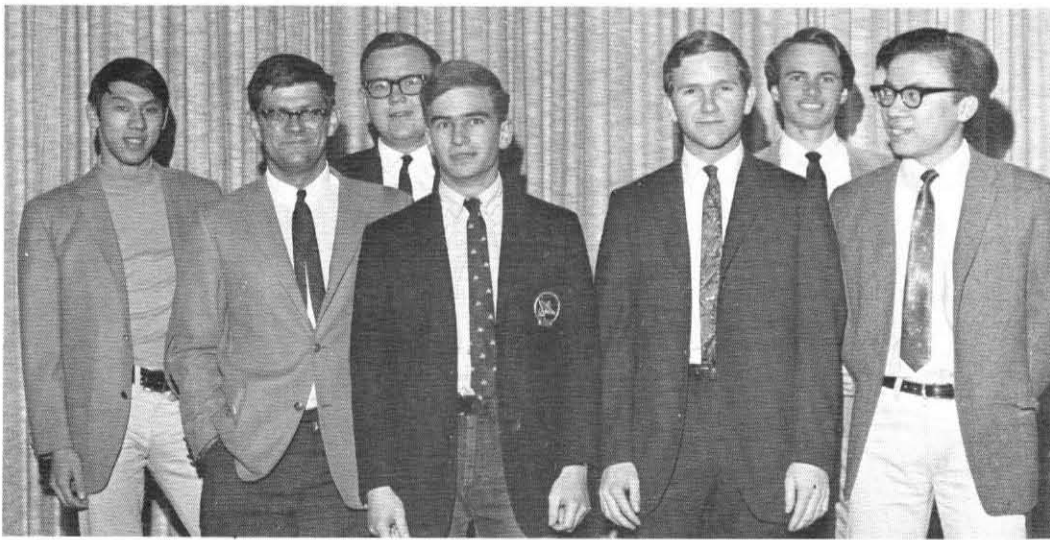
First Row: M. Meo. Second Row: G. Nix, L. Fishbone, J. Woodhead, B. Campbell, C. Jacobsen, S. Landy, N. Whiteley, G. Pihos, B. Chan.

OFFICERS



First Row: J. Sicherman, Librarian; J. Woodhead, Vice President; B. Hsu, Representative at Large; N. Whiteley, President; A. Barkus, Athletic Manager; J. Bahnerman, Social Chairman; G. Prestwich, Treasurer; G. Adamson, Librarian; M. Frost, Athletic Manager; M. Boule, Headwaiter.

JUNIORS

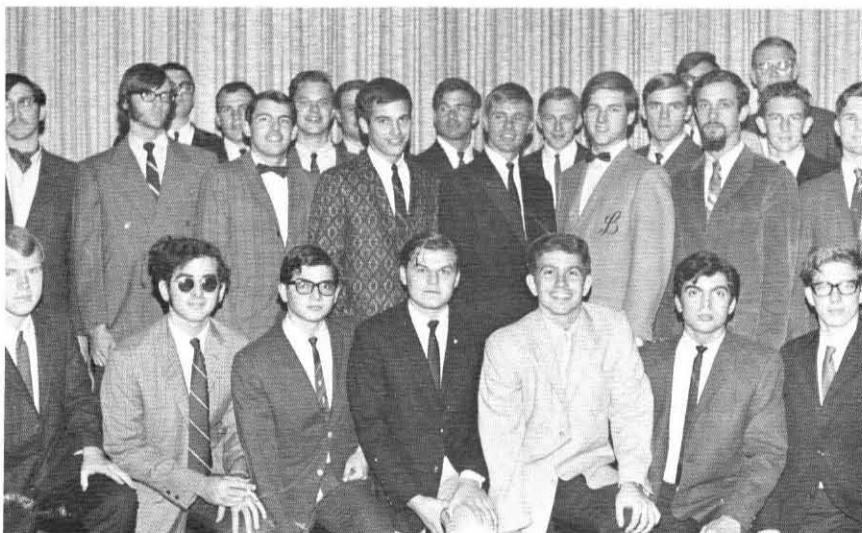


First Row: B. Hsu, C. Fisher, A. Barkus, S. Ferstut, M. Frost, L. Mason, D. Yuen.

SOPHOMORES



First Row: B. Robinson, B. Reinig, B. Fleissner, P. Wegener, M. Lason, M. Boule, Second Row: B. G. Prestwich, Bedpost, J. Coyle, S. Spirit, J. Messmer, J. Stone.



FRESHMEN

Front Row: J. Rude, D. Dibartolomeo, G. Taylor, B. Criss, A. Wrobel, C. Kaufman, R. Schwall. Second Row: R. Friedland, W. Jordan, J. Victor, T. Fitzgerald, J. Bahneman, S. Shepard, M. Noble, P. Dressendarfer. Third Row: J. Formen, M. Macdonald, T. Larsen, J. Sicherman, G. Adamson, C. Barber, R. Swanson, D. Madsen, T. Heinz, D. Nomer.



LOOK OUT!!!! IT'S KOMM!!

Loh eats apple pie", "Eddie High-Loh Life", etc. Next door, Wrobel turns the crank on the house Israeli Propaganda printer, while Taylor cleans a rifle—made in Israel, of course. The rest of the alley seems to be in the general vicinity of Rm. 130, the headquarters of Hsu's Chinese Power organization. Rude is spewing out historical trivia, while Criss and Kaufman try to persuade Madsen to help them brick up Ed's door. Jordan and Williams are sitting on the hall floor considering the smog problem. Nancy, Con. E., and Helene are making their deliberations more enjoyable. Entering Inferno, I see a soggy figure trudging back to Rm. 128. Dressendorfer must have gotten another 30 on a physics quiz. Noble greets him. "Hey, Paul, my adviser said I could take 68 units and I can get my triple major and . . ." The conversation is cut short by the blast of DiBart's stereo. Nomer rounds the corner—"Riding on Bahneman's cycle is dangerous." Across the hall, Coyle is counting the number of meals he has missed to retain title to the lightest house body. Charles Fisher, UCC and dirty water polo player, is reading his latest science fiction magazine—"Really fine!" he exclaims in his own 500 decibel way. Stone is busy figuring how long will it take to print "Who is John Galt?" a million times. "Let's see. Thirty hours straight on the off-line printer." Hautzik practices his juggling for 2 a.m. Larsen answers the phone—"No ma'am. This isn't the county jail."

Bahneman heads for his cycle as I enter Valhalla Boule, Reinig, Hentchel, and Prestwitch are working out their arrangement of "Dirty Old Man" while Kraus prepares the week's social event. Prestwitch—"We're almost as good as the Glee Club." Boule puts up a Peanuts cartoon: "The hand that controls the supper dish rules the world!" "Don't you guys forget that," warns Lloyd's surfing headwaiter. Reinig comments—"As an anarchist, I refuse to recognize any authority you claim to have." Across the hall,

Two of my records grew legs and walked out of my room. If anyone sees them wandering down the Olive Walk, please lead them back." Meo—"The Bolivian army announced today that communist guerilla bands based around La Paz had been either destroyed or driven back into the hills." Vigorous applause?? Whiteley — "Any more announcements?" Friedland—"I nominate Whiteley . . ." Whiteley—"Out of order." Friedland—"For House Norm."

The meal ended with wild applause (these people clap for anything) for the nomination. Fishbone rushes for a place in front of the TV. "I've gotta see Walter Cronkite."

To reach a final conclusion, I had to observe everyone in the house as closely as possible. Disguised as a B & G maintenance man, I began my tour by entering — Creek. The name card at Room 133 is covered with clever comments made by the fun-loving frosh—"Ed



Ecce Homo

McDonald, also known as Magilla Gorilla, leaves to fill the Coke machine. Tanguay is busy administering first aid to Campbell. "It's too bad you dropped that tape recorder on your foot, Bob. However, I'm sure everyone appreciated your interesting sound effects."

Climbing the stairs I found myself in Fingal's Cave, the alley which is totally cut off from . . . "Really fine" . . . well, almost totally cut off from the noise from the rest of the house. Fishbone is still watching Walter Cronkite. Messmer and Pihos are popping popcorn for the nightly pinochle session. "Fifth." Is someone yelling for liquor in Fingal's Cave? No, they just need two more bodies for six-handed pinochle. Barber wanders off in search of a bridge game. Across the hall, the Big Potato is explaining the world situation to Crane: "Comes the revolution . . ." Foreman and Hanson are picking into Whiteley's room. "We're going to bolt his bed to the ceiling, remove the plumbing, fill the room with . . ." In the nick of time, the House Norm returns, but Foreman puts a friendly paw around his shoulder. "You're dry, Whiteley!" he says in a deceptively pleasant voice as the subtle movement toward the head begins.

The first impression I get of Virgin Islands is the presence of a perpetual pinochle game. Sicherman, Schwall, (Spider Man), and Adamson search diligently for aces around, double families, and double pinochles. Schwall—"All right, you guys, I'm going to get a family this time or else." Sicherman just smiles. Schwall—"I'm not going to get a family this time, am I?" As I amble down the hall, screwdriver in hand, two record albums walk past. Oh, yeah! Room 207 is where Carroll lives. Although Meo, the conscientious UCC, food rep., and Martyr, is at Gang's office complaining about last night's meat, I am able to see John Williams leaving with his bongos for a sensitivity conference.

While Jack Griffith, most ardently revered Lloyd House RA, finalizes the plans for a skiing trip, Wilson, Yuen, and Komm discuss their automotive preferences. Wilson—"They had this bitchin' car at Daytona." Komm—"I think I prefer a station wagon. It's easier to mount my cannon in." Jacobsen keeps his door open to be certain no frosh are being corrupted in his alley. DeVinny and L.P. watch from Rm. 224 as Friedland, puny house victim, is dragged to the shower for the 368th time. Shepherd, Victor, and Swanson offer encouragement—to his oppressors. Swanson—"If I hear any more puns like that, I might lose my calm exterior."

At last I reach the infamous Bacchanalley, home of the wild orgies and drunken festivals. This is Bacchanalley; Frost and Barkus in an orgy? The ravages of time appear to have eliminated the ravages of Bacchanalley. Frost—"Come on, Landy, let's play football." Landy—"All right, Martin, but let's get Arunas," Barkus—"I'll be there as soon as I crush Hsu in Battle of the Bulge. Hsu, you're incompetent!" Woodhead sleeps peacefully with his true love beside him—his motor cycle. Fitzgerald is busy setting up the Lloyd House Kennedy Headquarters. Eisman chases DiBard down the hall. Fleissner walks past with his chess board. "Middleditch and I are going to play speed chess. One minute for thirty moves." Trabold tries to indoctrinate Heinz in the lore of conservatism. "I think I'll stick with basketball," says Heinz as he hits his head against the top of the door frame. I make my strategic withdrawal from Bacchanalley.

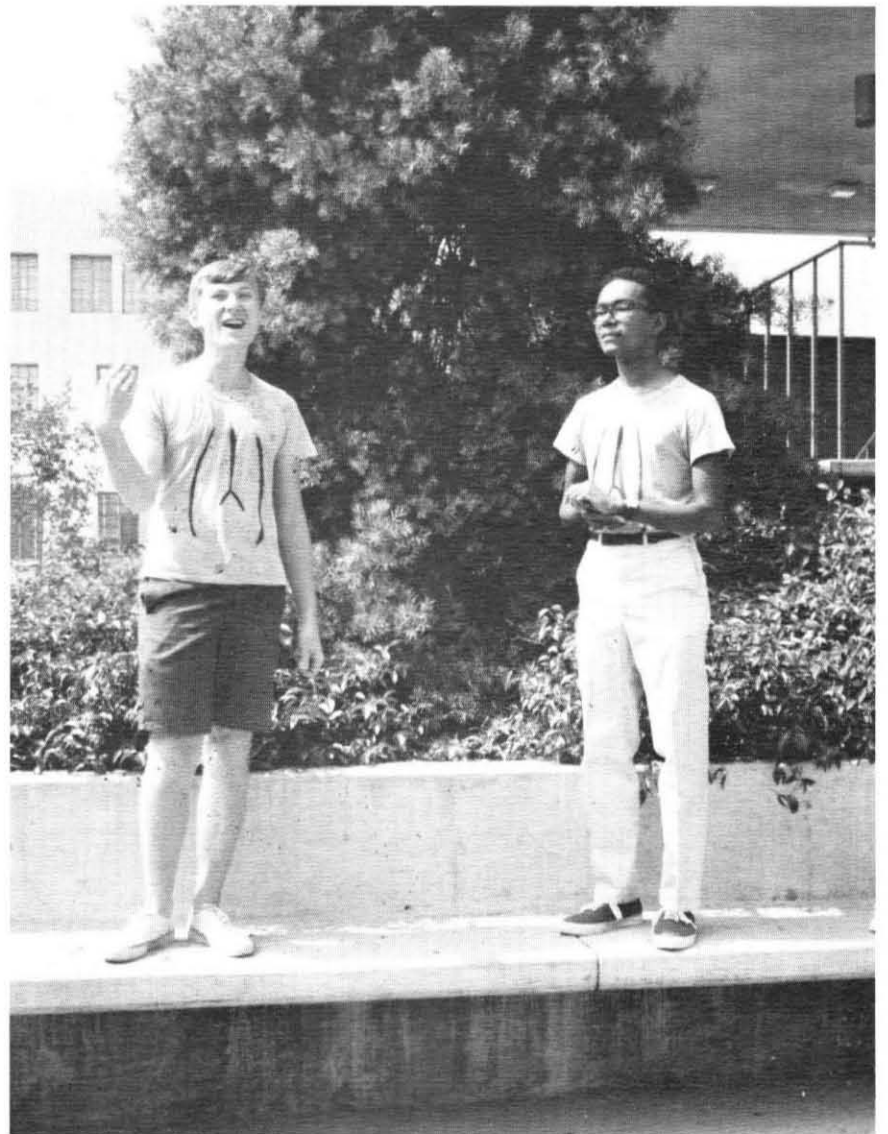
Well, I hope this report will provide you with adequate background information for any decisions concerning Lloyd House. If you have any further questions, I may be reached at the Friendly Rest Home any time within the next five years.



What, officer?



Band of random gypsies



69-1 Initiation

In this chapter, we want to discuss the philosophical implication and problems of Page house in 1968. In particular we will include a description of random events, and from these we shall try to extrapolate our understanding to the grosser physical significance of Page, '68.

First of all we will begin by interpreting the impact the new frosh had upon the house. Of all their manifold deficiencies, two stand out: they were exceptionally and impossibly dirty, and that they had to be just about the whimpiest we had seen in, well at least a year. Figure 69-1 shows an optimal solution to the cleanliness problem. One particularly filthy frosh, Phil Morgan, is shown being scrubbed by Grand Deagel, Charlie Creasy, using a new miracle cleaning fluid. As usual, however, the upperclassmen proved equal to the challenge, and the frosh were eventually purified.

In the long-range view, the second problem is undoubtedly the most significant. Two graphic illustrations are shown in Fig. 69-2. Unfortunately, this problem has no obvious solution. Only time can solve it, if at all.

69-2 The Social Program?

For those who can remember back to first term, they will remember the Page social program. Social chairmen, Wilzbach, Cunningham, and Curry fought bravely to construct a social program despite the influence of incipient bankruptcy, rising phone bills, apathy, and Waugh's friend. First term was highlighted by an exchange featuring " " to the great chagrin of those running an ASCIT exchange the same evening, and by a sailing trip, besides Interhouse dance, which we shall discuss later.

During second term, the house found that it was very nearly broke. However, there was a social program (approximately Epsilon). Page men and their dates went to see "Gone With the Wind", and we had several waiter exchanges featuring girls from local colleges.

Third term came, and with it a new team of social chairmen: Smitty, Drew, and Fay. And with them the term's social life took an upswing. The first big event on the agenda was the second annual Le Page Grand Prix, which pitted Page men's wits, cars, and gas credit cards against a diabolical route through greater Southern California in search of Indigo Lad, Oak Grove Drive, and the Queen Mary, to name a few landmarks. When totals for time, mileage, and questionnaires were totaled, Kolb appeared victorious. The second Annual Red Baron Festival was also held.

Lest anyone think that some social programs are inclined to lead young men astray, Page once again avowed its belief in truth, justice, and the Greek way, when we had our own movie night featuring "Davy Crockett and the River Pirates" and Lagrone drooling all over from drinking too much bora-bora punch.

And of course there was lost weekend . . .

69-3 Interhouse

This year Page set out to show that science and magic do mix. Riding in on his white dog, Ted Dillingham reigned for one night over the mythical kingdom of Id. Teckers and their dates, forewarned of Robbing Hood and other nefarious characters, strolled carefully through a forest, over a moat, and entered the castle Page. There they were greeted by Bung, thanks to Stein's feat of clay, and a genuine fluorescent ghost, Fig. 69-3.

69-4 Interhouse sports

As has been our practice in the past, we have tried to show you the basic principles involved in a situation, and then we applied them to special cases to see how they work out. In sports, Page's guiding principle has been to win. This year, as in years before, Page shows

- 69-1 Initiation
- 69-2 The Social Program?
- 69-3 Interhouse
- 69-4 Interhouse sports
- 69-5 Ditch Day
- 69-6 Added Note #1
- 69-7 Added Note #2



Fig. 69-1

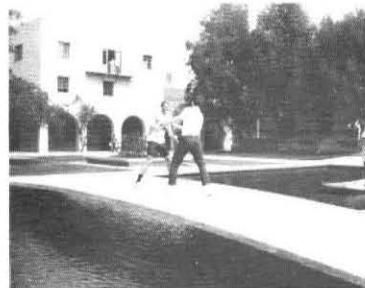
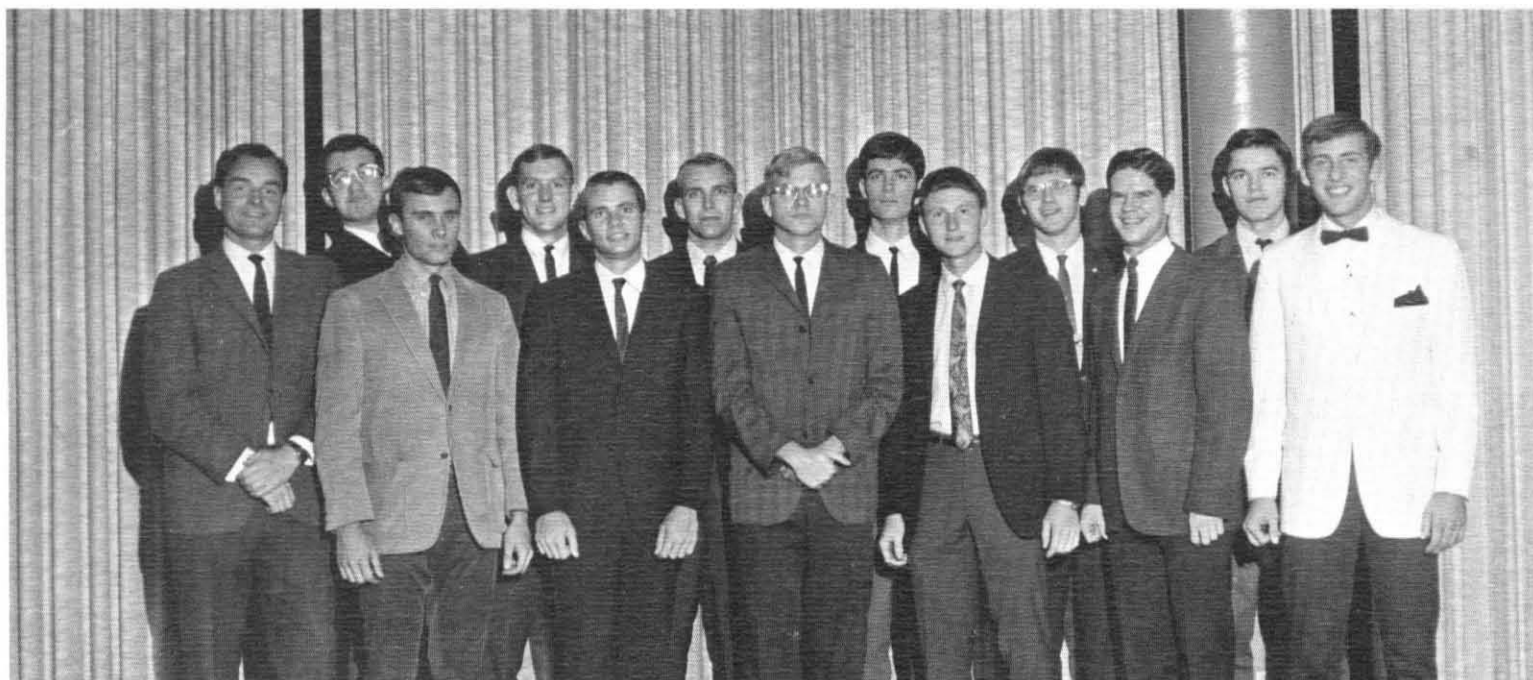


Fig. 69-2



First Row: G. Thompson, L. Felder, R. Starrett, L. Ruzza. Second Row: D. Kols, D. Goral, C. Dean, J. Burns, R. Ligon.

OFFICERS



Front Row: D. Curry, Social Chairman; D. Fay, Social Chairman; N. Holmes, Secretary; G. Thompson, Treasurer; P. "Flash" Wilzbach, Social Chairman. Second Row: K. Mueller, Honorable Resident Associate; C. Cunningham, Social Chairman; B. Ault, Athletic Manager; G. Smith, Vice-President; R. Drew, President; R. Gregg, Athletic Manager; J. "Happy" Garrels, Librarian.



JUNIORS

Front Row: D. Curry, T. Dillingham, S. Jennings, B. Fertig, H. Stover, D. Quigg. Second Row: K. Savage, R. Drew, C. Cunningham, R. Gregg, J. Larson, L. Lebofsky, G. Smith, J. Healy, P. Nicolaides, B. Crosby, D. Molodowitch.

SOPHOMORES



Front Row: A. C. Smith, Jr., K. Fong, J. Anderson, N. Holmes, C. Creasy, G. Gindy, G. Murata. Second Row: T. Bicknell, M. Karspeck, S. Patt, R. Frohwerk, G. Duesdieker, D. Powers, P. Youtz, P. Wilzbach, R. Adler, B. Ault, J. Garrels, J. Richardson, D. Engelman, J. Wueste, S. Wierenga, V. Cormier, G. Rewoldt, M. Tyson.



FRESHMEN

Front Row: J. Heuman, J. Waugh, D. Shoulders, L. Sparling, A. Stein, E. Loh, S. Beach. Second Row: G. Van Der Werff, P. Silverthorne, M. Pinneo, A. Koffman, H. Risch, D. Mikkelsen, D. Gunter, R. Blakey, D. Fay, R. Hall, T. Blaschko, R. Offerman, A. Hall, A. Selly, A. Peterson, N. Smith, S. Banks.

excellent agreement with this prediction. Page teams placed first in track, basketball and volleyball, otherwise known as Jubin's last stand, coupled with high enough finishes in other sports, we held a slight lead in Interhouse football. The Football team rose to the occasion and won to give Page another season's victory in interhouse.

69-5 Ditch Day



Fig. 69-3

Among the more random events this year was Senior Ditch Day. Only Greg Thompson was foolish enough to stack his room, the other seniors being too c.s. or apathetic. Except for Felder who wisely mis-measured a sheet of armor plate for his room, and couldn't complete his stack.

Wise and clever underclassmen, when confronted with Thompson's stack, went back to first principles to solve his entry mechanism and impregnable window stack, viz., brute strength. Once in the room, Stover and others indulged their artistic bents by welding a room-filling free-form sculpture inside.

Two foolish juniors also stacked their rooms and left for the day. Breaking into their re-stacked rooms that night they found a refreshing, or at least refreshed reminder of the ocean to greet them home, Fig. 69 4.

69-6 Added Note #1

Next year promises to be another great one for Page led by Pericles Nicolaides, President, and an intrepid if not gung-ho excomm. We are looking forward to an improved social program, another victory in interhouse, another sixth place for the snake trophy, and-for no grad students to live in the house.

From time to time in our stay here at tech, we have found it helpful to raise a little hell with various institute personnel with hopes of improving conditions in the houses. Now in the past, we have confined ourselves to letters and protests, it is very rarely that any action is taken by the institute. So this year we just decided to do it ourselves. Note, for instance, the new grass near the southwest corner of the house. Also shown in Fig. 69-5 are two indignant Page men protesting the slow mail service we were getting. It is interesting to note how this method fosters communication. The pictured employee subsequently asked us to submit our grievances to him in the physical plant parking lot at midnight.

69-7 Added Note #2

This is the way Heisenberg stated the uncertainty principle originally: If you make the measurement on any object, and you can determine the x-component of its momentum with an uncertainty Δp , you cannot, at the same time, know its x-position more accurately than $x = h\Delta p$. The uncertainties in the position and momentum at any instant must have their product greater than Planck's constant. This is a special case of the uncertainty principle that was stated above more generally. The more general statement was that one cannot design equipment in any way to determine which of two alternatives is taken, without, at the same time, destroying the pattern of interference.

Let us show for one particular that the kind of relation given by Heisenberg must be true in order to keep from getting into trouble. We imagine a modification of the experiment of Fig. 37-3, in which the wall with the holes consists of a plate mounted on rollers so that it can move freely up and down (in the x-direction) 69-2. By watching the motion of the plate carefully we can try to tell which hole an electron goes through. Imagine what happens when the detector is placed at $x = 0$. We would expect that an electron which passes through hole 1 must be deflected downward by the plate to reach the detector. Since the vertical component of the electron momentum is changed, the plate must recoil with an equal momentum in the opposite direction. The plate will get an upward kick. If the electron goes through the lower hole, the plate should feel a downward kick. It is clear that for every position of the detector, the momentum received by the plate will have a different value for a traversal via hole 1 than for a traversal via hole 2. So! Without disturbing the electrons at all, but just by watching the plate, we can tell which path the electron used.

Now in order to do this it is necessary to know what the momentum of the screen is, before the electron goes through. So when we measure the momentum after the electron goes by, we can figure out how much the plate's momentum has changed. But remember, according to the uncertainty principle we cannot at the same time know the position of the plate with an arbitrary accuracy. But if we do now know exactly where the plate is we cannot say precisely



Fig. 69-4

where the two holes are. They will be in a different place for every electron that goes through. This means that the center of our interference pattern will have a different location for each electron. The wiggles of the interference pattern will be smeared out. We shall show quantitatively in the next chapter that if we determine the momentum of the plate sufficiently accurately to determine from the recoil measurement which hole was used, then the uncertainty in the x -position of the plate will, according to the uncertainty principle, be enough to shift the pattern observed at the detector up and down in the x -direction about the distance from a maximum to its nearest minimum. Such a random shift is just enough to smear out the pattern so that no interference is observed.

The uncertainty principle "protects" quantum mechanics. Heisenberg recognized that if it were possible to measure the momentum and the position simultaneously with a greater accuracy, the quantum mechanics would collapse. So he proposed that it must be impossible. Then people sat down and tried to figure out ways of doing it, and nobody could figure out a way to measure the position and the momentum of anything—a screen, an electron, a billiard ball, anything—with any greater accuracy. Quantum mechanics maintains its perilous but accurate existence.



Fig. 69-5

RICKETTS HOUSE

And, so we came back in the fall and surprise! Ricketts House was still in the same place we had left it in June. Since no one decided to move it, we got right down to business—the problem of how to break in the frosh. As it turned out, Ricketts frosh fitted right into the master punt schedule. Initiation was spirited, as usual, but educational too—“Give ten synonyms for the name of the alley above the lounge.” “Uh, . . . , batch, catch, scratch . . .” Maybe a little **too** educational. “Okay, frosh, out with the slipsticks.” “Slipsticks? . . .” But frosh soon learned to think with an ice-cold intellect—especially after liberal doses of cold, cold water applied to the seat—or pocket, as the case may be—of learning.

The battle for the Brake Drum began again, frosh threatening sophs and pulling borderline attacks—“Brake Drum! Brake Drum? You mean **that** puny noise was a Brake Drum ringing?” **Very** poor, frosh! The remains were never recovered.

The lounge showed its full capabilities as a supreme punt room and infinite time sink—so did the color TV which came in kit form and almost rid the House of EE's at finals time. But don't worry fellows—we've put up a Rowan and Martin memorial plaque.

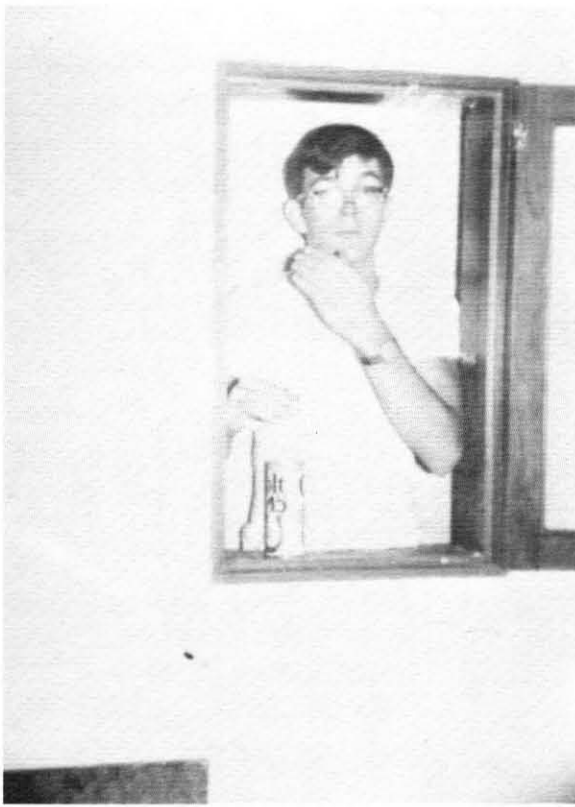
Announcements at dinner took on special meaning, especially when there were guests and particularly when Kast gave a magnificent oration—to the bright-red embarrassment of certain non-male guests. The record challenge time this year stood at 25 minutes, with Dick Hey's fluid articulation of certain house members' activities. And there was Roullard's Beckman announcement—“Tonight's Beckman lecture is on the moon! . . . that is . . .” What he really meant to say was that the party was in Tarjan's room.

And it came to pass that once upon a time a certain physics department put out an overpriced lab manual only ten pages long. And it happened that an industrious froshling hit upon the idea of mimeographing the notes and then underselling the department by a factor of six. And much steam arose from the I-squared R loss incurred by the bookstore which was stuck with many, many manuals . . .

The infamous team of Pollack and Lurch kept Crud Alley on its toes—even though Hall claimed that his roommate **really** wasn't a speed freak . . . and we're off to a start in the Calcutta races as Basu unnervingly cries, “Aa-hoo-haa!” . . . But noise wasn't all, despite Gagliani's courtyard-aimed 100 watts—Woods ran a close second to Roberts (“Who's Roberts?”) in the attempt to take over Reul's post . . . and Cherry Lane suffered this

The new maid reporting for work





Nelson—"OH NO! MY PYRAMID! Confess it isn't true!!"

year with the introduction of the Polish wonder, none other than the immortal Plop—"Why does everybody keep dumping on me??"

Lounge—"Are you kidding??".
Prendergast—"Fourth! Fourth!"

P. Doberne—"Monopoly! Monopoly!" But Parker Brothers never named streets like **he** does . . . and Nelson's pyramid must come

— . . . —down sometime . . . and Yarbrough—(Lounge) "OK, we give up, what's your option today? . . . but if Bishop Pike can do it, so can . . .

Interhouse came along, and Hirsch's plan never got off the ground, with Rumsey's great forgiveness of this failure. As usual, infinite amounts of work seemed in order, but workers were quickly recruited when they were reminded of the Culture points to be had from mixing Bentonite. The stone-age theme of Ricketts Interhouse was efficiently set up by Beaver, Clough, and Gremban, and it included a gadget-studded time machine operating on the Feynman-Gramban-Osborne theory of virtual chronon splitting. Unfortunately, the chronon reactor failed on the first trip, cutting off the view screens. However, pilot Osborne was used to taking trips in total darkness, so no harm was done. Lohman found out how to get satisfaction from a papier-mache dinosaur. However, he failed to pursue this line of endeavor when the sky threatened to fall in on him.

During the year, other social events were held, including a "computer-match" dance, and, sponsored by the new social chairman team, a day at the Seismological Lab grounds with a cook-out and an infinite girl-supply. Later in the year, a highly successful Casino was set up, with Ricketts House currency available to play in blackjack, craps, chemin-de-fer, and other games.

Koenig—"Too bad, Nelson. You lose . . ."



RICKETTS HOUSE

SENIORS

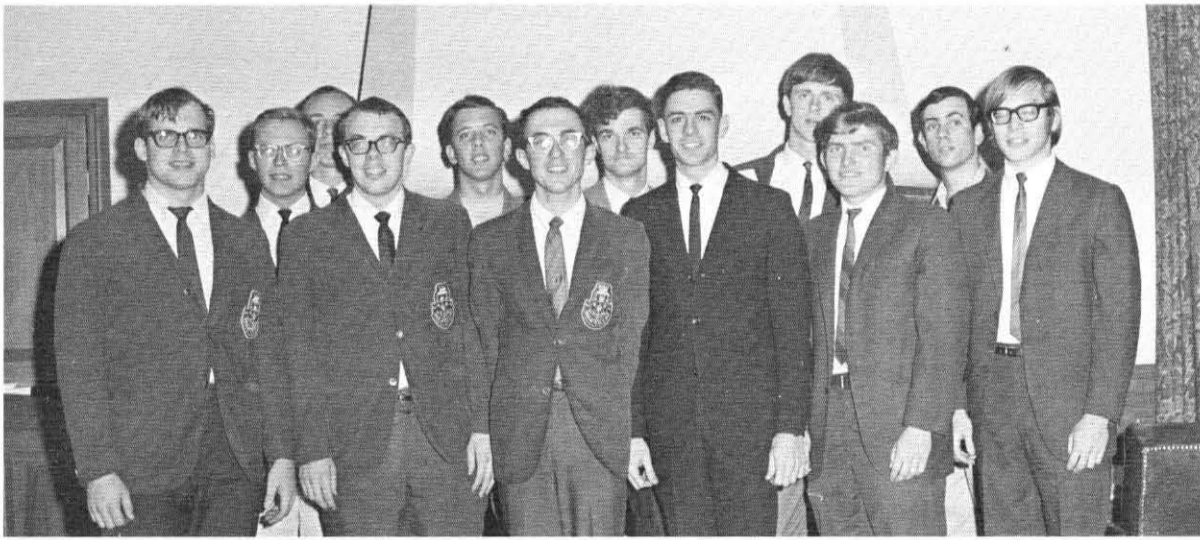


First Row: D. Chang, W. Jaffe, P. Rumsey, D. Elliott, C. Frank, R. Stokes, S. Logan, S. Craig Nelson. Not Pictured: H. Petrie.

OFFICERS



First Row: G. Yarbrough, Social Chairman; B. Tarjan, Athletic Manager; O. Otto, Social Chairman; K. K. Bergman, Resident Associate; S. Craig Nelson, President.

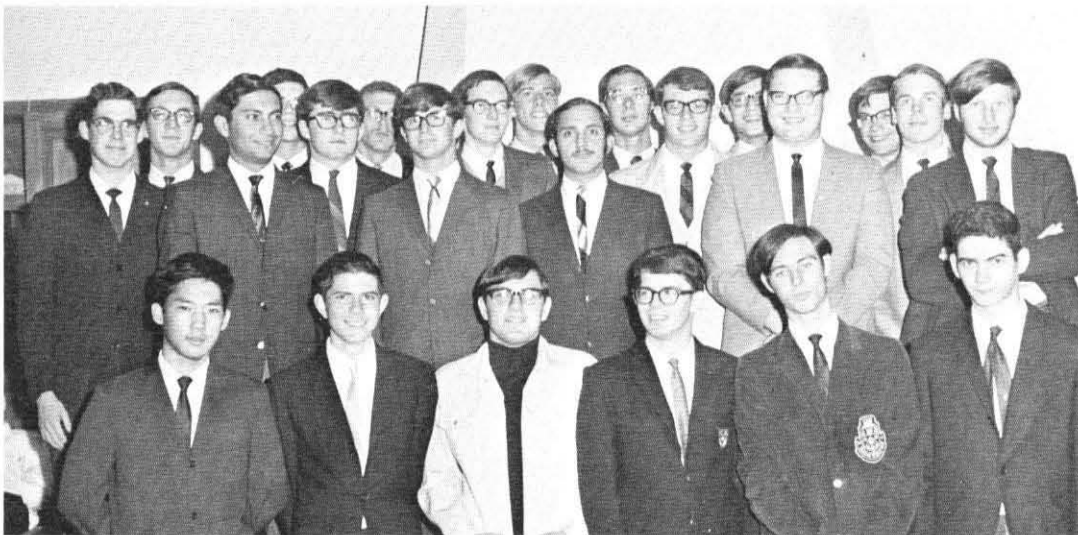


JUNIORS

First Row: J. Armstrong, J. Hockert, G. Smith, O. Otto, V. Junkkarinen, B. Tarjan. Second Row: R. Gremban, G. Clough, B. Enenstein, B. Inwood, E. Rehbein, M. Fredman.

SOPHOMORES

First Row: D. Schor, B. Gray, G. Yarbrough, R. Basu, M. Brojdo, B. Maaser. Second Row: J. Pendergast, J. Taylor, D. Reul, A. Hirsh, N. Erickson, P. Roullard, T. Davis, A. Beagle, R. Wong. Third Row: E. Jensen, T. Horning, D. Hermeyer, R. Lohman, J. Osborne, J. Smith, M. Meldgin, T. Casteel.



FRESHMEN

First Row: Y. Diamon, R. Curtis, R. Antaki, A. Hoehler, J. Freeman, D. Roberts. Second Row: S. Insana, C. Schleuber, R. Tuler, J. Cooper, M. Lamana. Third Row: R. Woods, E. McCord, L. Watkins, J. Hall. Fourth Row: H. Waggy, A. Lederman, L. Gogliani, G. Koenig, R. Jensen, L. Lawson, B. Kast.

Osborne demonstrates his capacity and accuracy—with a water pistol of sorts.



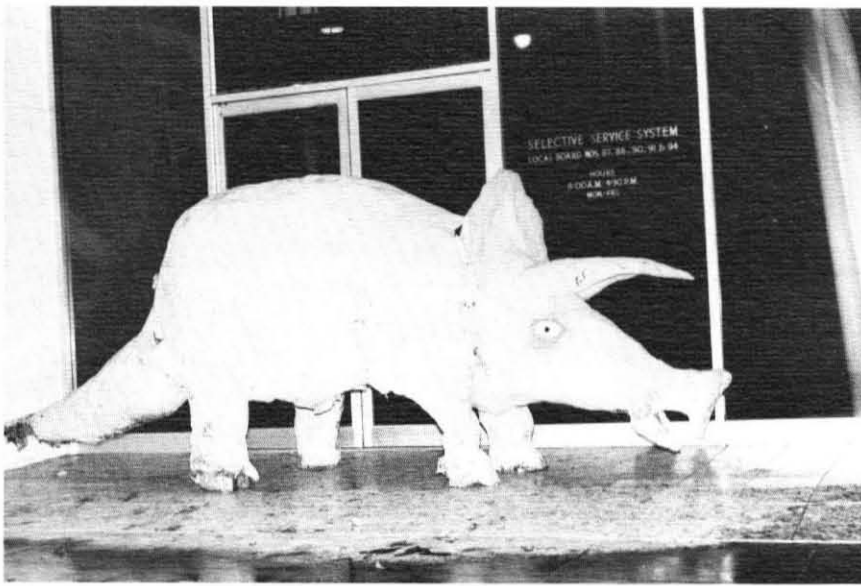
Came the Apache, and the lounge vanished, to reappear with a sawdust carpet and small booths with what looked like—amazing!—closet doors as walls. The festivities got off to start with Hockert as the seed keeper of the battery acid. Came 11 o'clock and organic debris began hitting the floor—but casualties were minor. Aiding the RLPL in judging the garter contest was the "plop", who almost succeeded in taking over the Jensen job by announcing, "The winner, by a hair, is . . ." Tax collections were taken for a waiter's favorite charity, with different charities accepting different forms of payment.

After the Apache was taken down, Tuler discovered that closet doors should be heard but not seen. Having decided not to retrieve his doors, he woke up one morning and opened his room door only to discover that he faced the business end of an impressively massive stack using his closet doors and about six million pieces of scrap lumber. Comment is not available on what he said when he opened his door.

Student's Day provided some interesting activities. Aside from the usual birthday celebration, an honorary playing of the Ride by DeVoe was performed. Ricketts troops intercepted an enemy suspected to have come from Blacker, and potted him, finishing the ceremony with a bug juice christening.



An old challenge is met—viole(n)tly—as Logan discovers not so half-fast workers.



... we reluctantly admit that Ricketts isn't the only place that builds men ...

Not long afterward were house elections, with Okada elected president, Beaver as V.P., Curtis as secretary, and Jensen playing the role of treasurer. Also elected were the athletic managers—Koenig, Hall, Junk-Karinen, and Lohman, and social team of Beagle, Briceno, L. Doberne, and Watkins. As third term rolled around, four-square was resurrected and the world's first tray-ball tournament got under way. For a while, four wall tray-ball threatened the many windows in the courtyard, but it was discontinued out of pity for B & G.

The Herc-Snatch Alley alliance degenerated into a fight for Lower Snatch—or was it Upper Herc?—but in any event, Herc remained the only alley with six telephones, three television sets, and no head. Enenstein developed a 90 degree phase shift with the rest of the house and Doberne bought stock in the Pasadena-Berkeley Railway, while Beaver, Davis, Doberne, Enenstein, Lohman, and Lawson played the Ride and challenged all would-be attackers. In Snatch, the corrupting influence of the frosh on the alley character was amazing. To combat this, Okada wisely became UCC of the lounge and was never seen again in the alley. The red-haired punter, Lamanna soon showed great promise in the newly devised bridge option. The incredible Peter of Snatch had some rosy prospects ahead of him, while Maaser snaked psychology and nursed his coke bottle back to health. The strange appearance of the Alley Crawler marked the beginning of an unholy alliance between Erickson and his tape deck, while Hermeyer generated weird objects resembling unstable nuclei. At times, a dull booming sound emanated from Wong's room, but no one dared to investigate. As third term drew to a close, Tuler and Schlehuber remained to be seen. ('Tuler? Wuler who??')

Cherry Alley suffered from the contamination of the Plot, but managed to survive. The job of Food Rep. rolled around to Horning, and the unseen archtroll—Gray—was out of phase with **Enenstein** by 90 degrees. Presiding over all this was the master Aardvark. E.P. Rumsey took on the challenge of serenading the Blacker R.A. and passed with flying colors. In Interhouse sports, Ricketts suffered much in basketball and tennis, despite efforts to support it, tied for first in softball for the third year in a row, and placed second in the Discobolus with a six match winning streak.



Feeding them was the tough problem ...

RUDDOCK HOUSE



EARKEN YE, to the tale from the Land of RUDDOCKE, and the long and Bitter War fought with Invaders from the Land of FRAWSHE, those heathen lands Bordering on the Lost Continent of TECKE . . . how the goodly King of RUDDOCKE, his ILLUMINATED SELF, KING DANIEL, strove Mightily with the Invaders, captained by such vicious leaders as KRISTIANS the FLAGRANT, and ZDUDENSCKI the GROSS for control of the goodly Land of RUDDOCKE, and the ALLEY FOUR HEAD, besides . . . how in riotous Battle joined, the very Earth herself was troubled, and gave up from herself great tidal INUNDATIONS which would have swept all to RUIN, but for the Musical CHIMES rung (at the most unGodly hours) by the Citizens of RUDDOCKE . . . And let us not forget how our goodly KING was Troubled, and brought together his most trusted Advisors and burned INCENSE (among other things) to the god ALMIGHTY AND KIND FRINK . . . and how, their Prayers answered, they mobilized the Land and placed Armed Guards at all points, from which to subdue the Surly Invaders . . . Tell the Tales of how, once captured, the men of FRAWSHE were forced to heavy Labor, carrying Large Rocks around the Continent of TECKE . . . and how they were given repeated Ritual Cleansings, and changed from heathen worships to the Ardent Worship of POL, Goddess of the Better THINGS in Life . . . But Lo! Goodly KING DANIEL had reconsidered his position concerning the Invaders from FRAWSHE, and announced late one Evening that he would thenceforth accept a Coalition Government, and the Invaders, cleaned and Penitent, presented Themselves before the King and were made FULL CITIZENS, and were Glad . . . But Hark! From his Blazing Throne atop the FIERY MOUNT WILSON, the ALMIGHTY FRINK called forth in THUNDEROUS VOICE for the Goodly KING DANIEL, and the Citizens of RUDDOCK selected for a successor KING BUTTERWORTH, also descended of FRINK, to lead them . . . And the GODS were HAPPY, for All lived Randomly ever after . . .



President Erno regresses

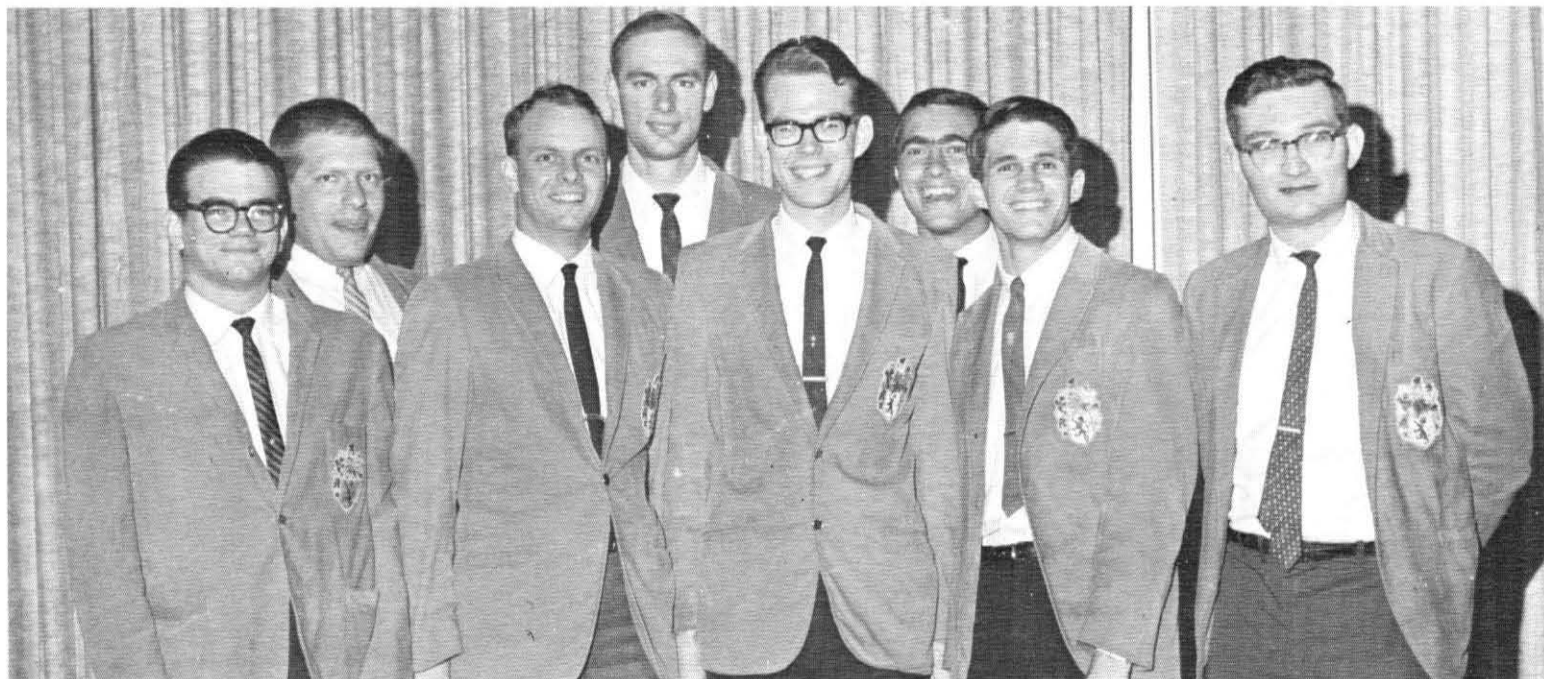


"Take Tea and See", says R.A. John French

After three solid months of uninterrupted girl-chasing, money-making, and enjoyment of life, seventy-seven men of Ruddock returned to find thirty-three new frosh waiting around, wide-eyed, and nervous—with nothing to do. The returnees, not about to see such talent go to waste, immediately went about finding interesting and amusing "busy-work" for frosh to do—such as carrying chunks of granite emblazoned with the Ruddock "R" around campus, going to introductory graphics classes, getting repeated ritual cleansings, and frosh stunts. Among the more spectacular of the stunts were Guibas, Green and Ledford's modified "James Bond" routine which resulted in their being chased by a very convinced P.G.&E. man; Richstone, Switzer, and Sellent's stirring support of public modesty by hanging the traditional bra on the traditional Home Savings and Loan statue, Munsil and Zikratch's notable effort to redirect San Pasqual Street traffic through the Food Service parking lot, and Ian Kling's inspired attempt to talk one San Marin housewife into letting him take a shower in her house. Soon, however, the industrious frosh became bored with assigned tasks and channelled their energy into enthusiastically bedevilling their masters. Frosh Lewis, Lipinski, Sando, and Studenski tried to kidnap pledgemaster Derry Hornbuckle, only to find out too late that he was a wrestler. The kidnapers escaped with their load, but one of the victim's legs was flailing out the car door for a block or so. Hornbuckle returned for dinner though—in a garbage can, securely trussed. A temporary cease-fire was called for the Mudeo immediately after first term midterms, during which event the frosh proved conclusively that their bribing talents are fit for any government position anywhere, and that their love of slime is exceeded only by their ability to drag sophomores and upperclassmen through it. The well-paid, and therefore well-biased judges declared the frosh unquestionable swamp champions. This was soon followed by Interhouse Week, which asserted itself as a genuine religious festival with the conversion of the house patio and lounge into a Burmese Temple, embellished with facade, lake, golden Buddha, flame room, wall "art", and Evil Eye. The last item was thanks to Dennis "Sparks" Kodimer and Steve "Corona" Woodward, who wired a slide projector, bicycle wheel, switches, servos, and an untraceable welter of wire into a glowing monstrosity whose warped mechanical mind delighted house members and their dates, as well as several hundred visitors. All, that is, except Sparks and Corona, who had to wade ankle-deep in the pool and re-wire the "hot" contacts without disconnecting the Beast.

RUDDOCK HOUSE

SENIORS



Front Row: J. Maiorana, N. Schofield, P. Brandon, E. Seguire, N. Wright. Second Row: B. Gordon, T. Bruns, E. Daniel.

OFFICERS



Front Row: B. Butterworth, Athletic Manager; J. Bolland, Athletic Manager; E. Daniel, President; E. Seguire, Vice President; L. Hunt, Secretary; S. Hadler, Master Waiter.



JUNIORS

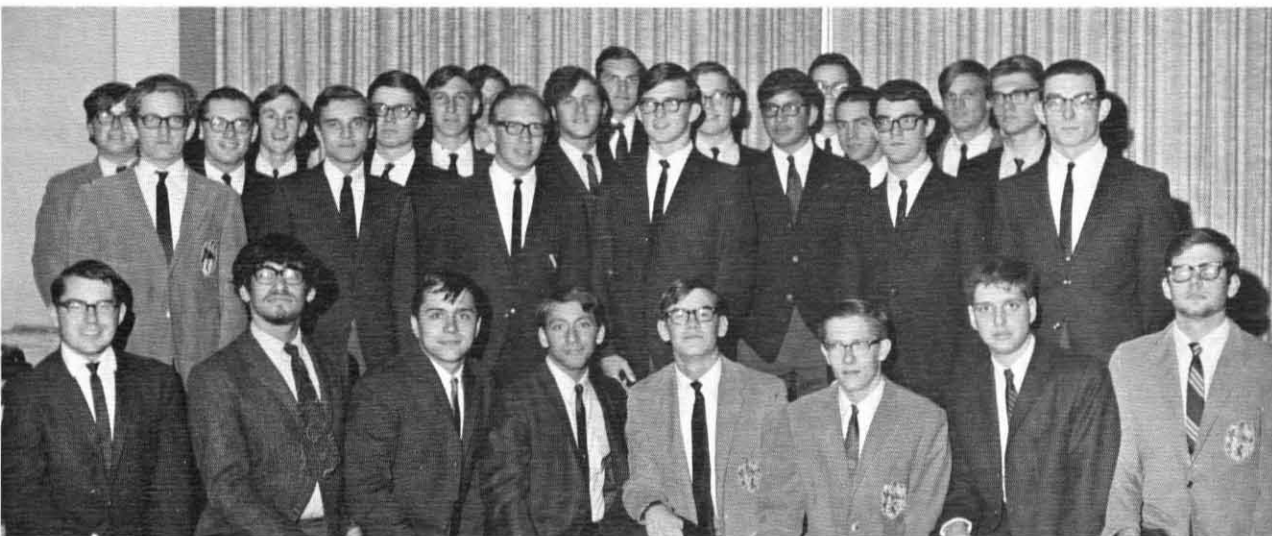
Front Row: J. Grove, G. Evans, L. Shirley, T. Jordan, L. Hunt, "Crash" McCord, G. Waller. Second Row: J. DeVore, M. Jackson, E. Kort, S. Hadler, G. Cable.

SOPHOMORES



First Row: J. Wronowski, B. Butterworth, T. Colannese, M. Abrams, J. Marable, D. Sinema. Second Row: M. Sperry, B. Nichols, Snake, R. Chevalier, R. Vincent.

FRESHMEN



First Row: J. Garmany, Stud Studenski, L. Guibas, D. Green, H. Tyler, P. Lowry, D. Richstone, T. Tardiff. Second Row: W. Munsil, D. Ruhoff, B. Sellent, I. Kling, P. Noland, K. Drake, D. Turner. Third Row: D. Leoford, B. Britten, D. Maust, A. Odlyzko, S. Sando, M. Kellman, R. Phantom, S. Smith, A. Christians, A. Strickland, G. Kandel, B. Penrose, G. Ruby.

About this time, there was an all-alley challenge which involved fishing for goldfish in the Millikan Pool. Hooks, nets, and bait were banned, leaving hands or feet as the only permissible instruments of capture—that is, unless someone wanted to try catching them with his teeth. Alley Four triumphed, and it is rumored that cooking goldfish had something to do with the strange odor in the hall that night. Meanwhile, ex-Gestapo agent and heartless baron of the Quiet Alley (Six) sent a twenty-five pound dumbbell through the sink in the Alley Two head while practicing being a stud by lifting weights in front of the mirror to see the muscles (what muscles? I don't see any!) rippling. Meet Norm Schofield!

The freshmen put on the annual Frosh Party for the upperclassmen and their dates, during which part of the entertainment was put on by Gordon, Brandon, Schofield, Bendix, and Bruns, who did the "Slowly I Turn" routine with a gusto seldom seen anywhere. Many people think that something was missing from the party, however, and as soon as the list is completed, hopefully by early next year, it will be presented to the old social chairmen for proper action—most probably hari-kari.

During first term, Ruddock maintained its reputation as an athletically active house. House members Nichols, Pocekay, Halstead, Sando, and Studenski enthusiastically supported the varsity football squad which for two years has had an unbroken (?) record. In swimming, Richards, Daniel, and Stoecker showed skill in diving, the breast stroke, and the hundred yard individual medley, respectively. Karl Friedlander and Arnold Richards pitched for the house softball team. Non-participant support for the teams was also good.

Second term was kicked off by a couple of parties and a Lloyd-Ruddock exchange, but nothing could save those non-frosh who had just seen their first term grades. To add to the general disorder, a curious breakout of "flu", which many thought due in part to the saga pizza, swept the house. This, to most, was the last straw, and so a food march, half in earnest and half in fun, was organized. The demonstration saw several dozen Ruddock House members carrying their presumably germ-ridden trays to the hallways of Throop, and there depositing them, each with an edict attached which began ". . . When, in the course of human indigestion . . ." The publicity which resulted snowed everyone, especially Stew Sando, whose parents called from Florida **very** early the next morning to relate to him a strange article seen in their morning paper, and Leonidas Guibas, whose Grandmother saw an equally strange article in a paper from Athens, Greece.

After mid-terms, another more traditional form of diversion was arranged—"Nevada Nite"—when the Ruddock House Lounge was transformed into a gambling casino. Money, in the form of spurious Ruddock Dollars, was all but tight, and the bills circulated at a rate to beat the Stock Market.

Near the end of the term, special elections were held to elect new house officers for succeeding terms. Erno Daniel was succeeded in the presidency by Bill Butterworth, Ed Seguire by Greg Evans as Vice-President, Burt Roffman by Dan Sinema as Treasurer, Larry Hunt by "Crash" McCord as Secretary, and Cevalier, Marable, and Pocekay were followed by Lipinski, Green, and Cable in the office of Social Chairman. Stew Sando and Paul Studenski succeeded John Bolland and Bill Butterworth as Athletic Managers, Charley Noland followed Bill Nichols as Librarian, and George Waller triumphed in the hotly-contested race for the office of House Plastic Indian.



"WHAT!!! Piranha, not goldfish???"

C.C. vs CAL TECH

Pizza Eating Contest



Ruddock Men can eat it with the best of them . . .

The senior class, predictably, laid detailed plans to keep Erno Daniel, the outgoing president, from being showered by the frosh, but the frosh were also conspiring. Sando, Green, and Garmany dangled a microphone outside the meeting room and succeeded in getting the entire conversation on tape. Carefully, counter-plans were laid, but when the time came, both sides bungled things so badly that the scene degenerated into a Keystone Kops scramble. Daniel got it anyway—in Millikan Pool.

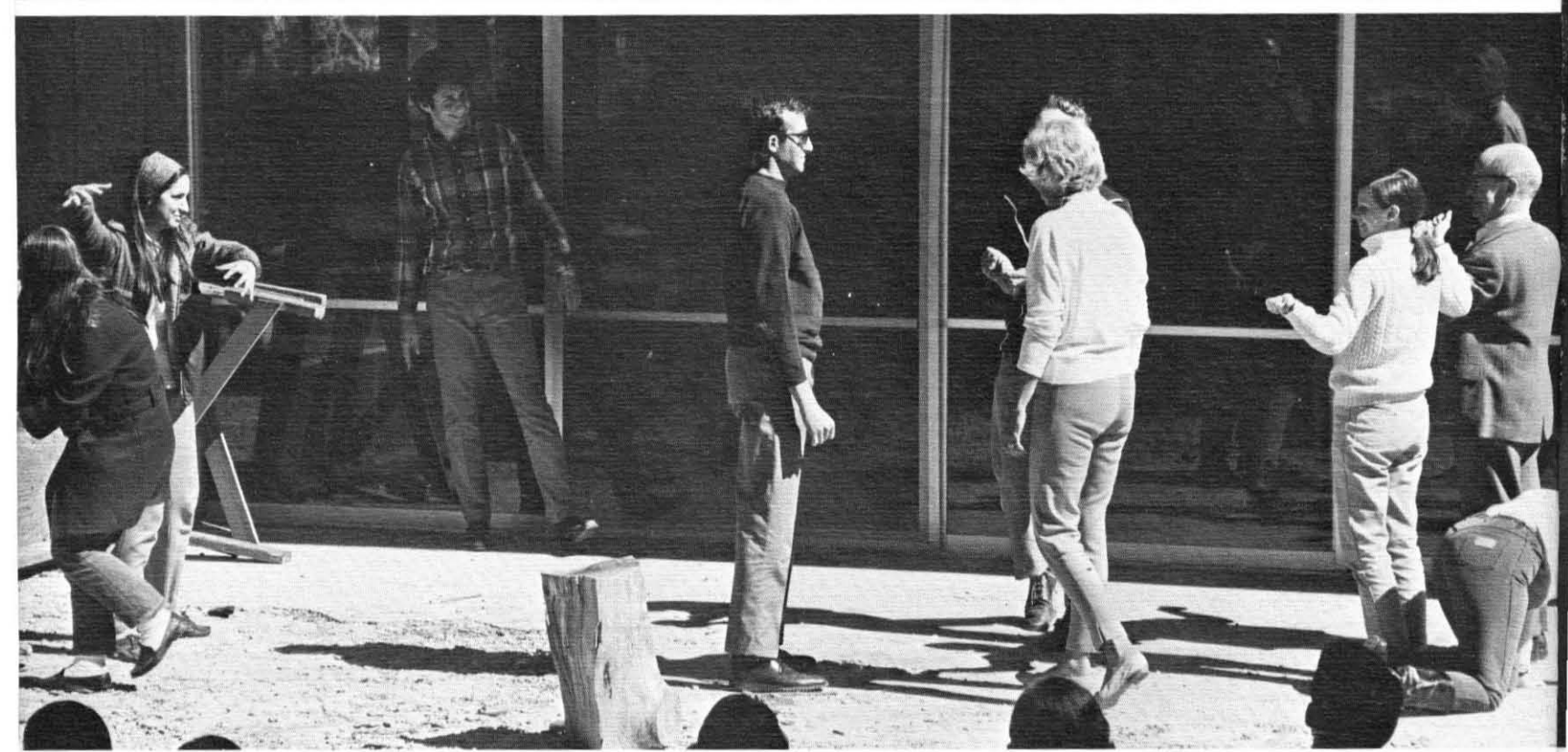
Showering wasn't the only second term sport, though. In tennis, Sperry, Garmany, and Kesmondel were first, second, and third singles stars, respectively, and Bolland and Chevalier filled the doubles spot. Stew Sando showed very well in Interhouse Track, taking two events and one second place. Ruddock also entered a volleyball team. By the end of second term, in fact, Ruddock was very close to a varsity rating trophy. With sickening predictability, second term finals came and further decimated the ranks of all-time Ruddock jocks. After a week and a half of badly needed R & R, the grand Tech punt, pass, and flick contest began again, with a vengeance.

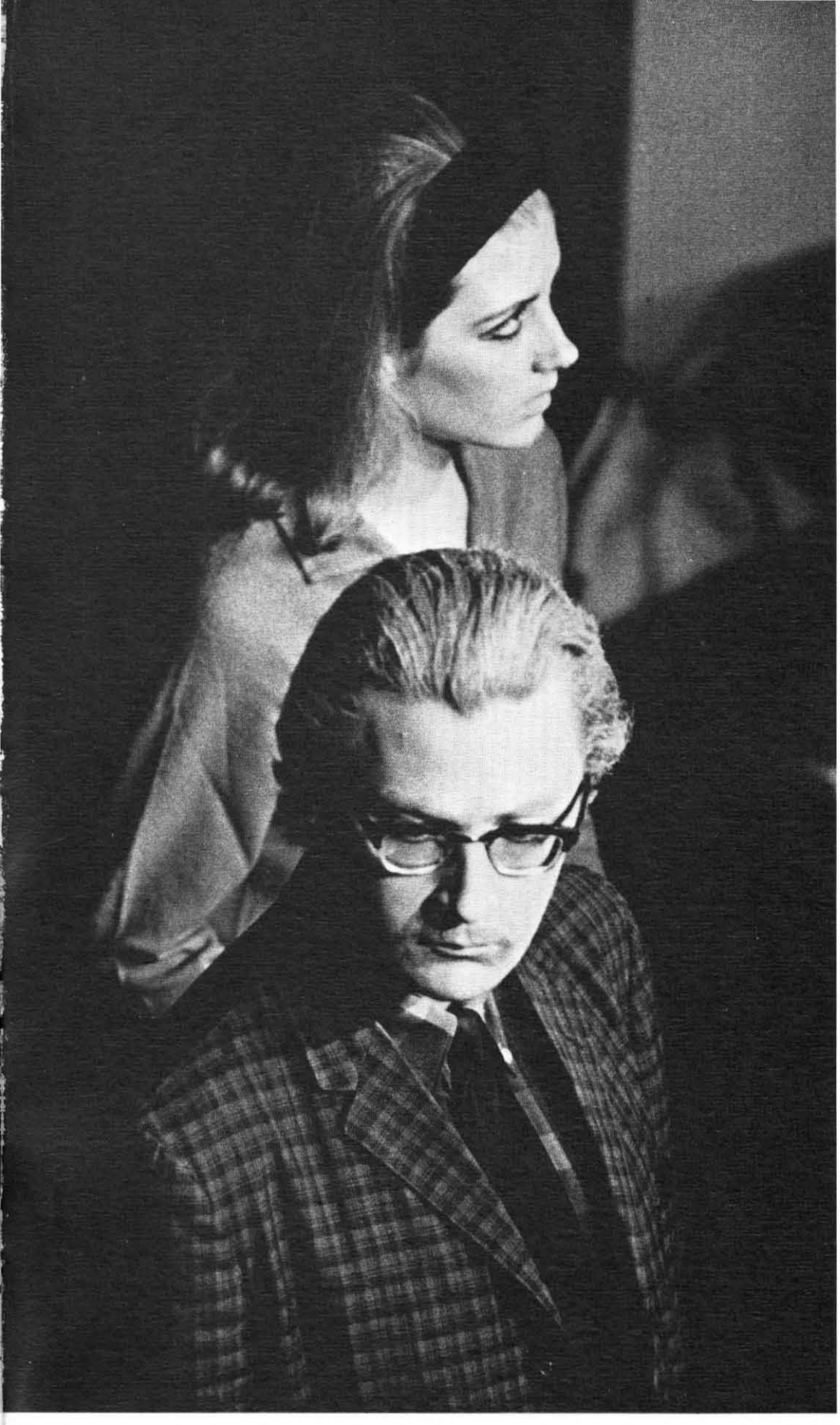
With third term, the new social chairmen went to work, and one of their first creations was a Grand Grunion Hunt. Alas, in spite of advance publicity, and probably in fear of being gulped alive by devotees of Food Service cuisine, the grunion wisely failed to show, thereby blowing for all time their record of predictability. After two hours of waiting, hunters and dates left the fish to their own vagaries. Interhouse Sing followed soon after, and manager Terry Bruns drafted the five Tech Glee Club members in the house into forming a good chorus out of Ruddock jocks, nearly losing his own voice in the process, and Ruddock's chorus took second for their pains.

But the studs had other things to do. Bill Nichols, John Wronowski, Phil Lowry, and Terry Bruns contributed to the varsity or J.V. basketball teams, and the new athletic managers whipped up a good interhouse team. Neil Wright, the House Infinite Economist and Political Undecipherable gave the house a very good talk on the gold crisis and the outlook for the U.S. economy.

One of the very last big events of the year was the annual Senior Ditch Day, for which Gordon, Brandon, and Maiorana prepared diligently with the most monstrous, misleading, and obscure set of room stacks ever to discredit Ruddock House. While the felons lounged somewhere far, far from Tech, a team of twelve frosh struggled manfully with the hairy problem of how to negate the electronic security set up by the seniors. As might be expected, part of the electronic dementia shown by the machines was due to their creator—Kodimer was back in business. After much travail, however, Maiorana's fortress fell to prying hands and a loose doorknob. But Brandon's and Gordon's rooms remained unviolated . . .

But now the smell of summer was in the air, and three months of punting promises to follow this, a most interesting and successful year at Ruddock House.





ACTIVITIES

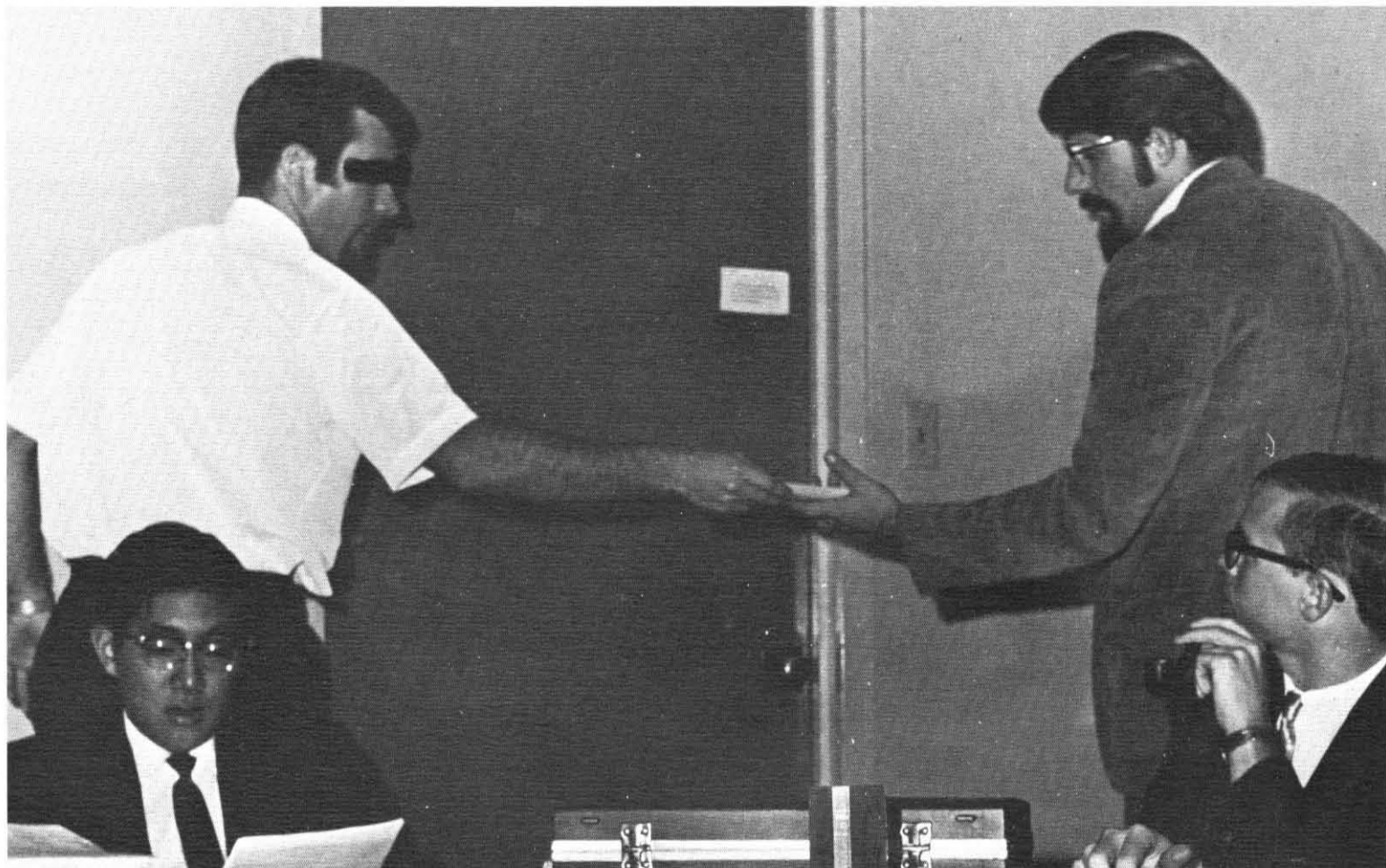
BOARD OF DIRECTORS



Seated: Gavien Miyata, Secretary; Len Erickson, Vice President; Joe Rhodes, President; Jon Haviland, IHC Chairman. Standing: Mike Garett, Activities Chairman; John Cummings, Treasurer; Rich Drews, Social Chairman; Tom Burton, Athletic Manager. Absent, as usual: Gerald Anderson, Representative-at-Large

Rhodes cracks under the awesome pressures of the ASCIT Presidency.





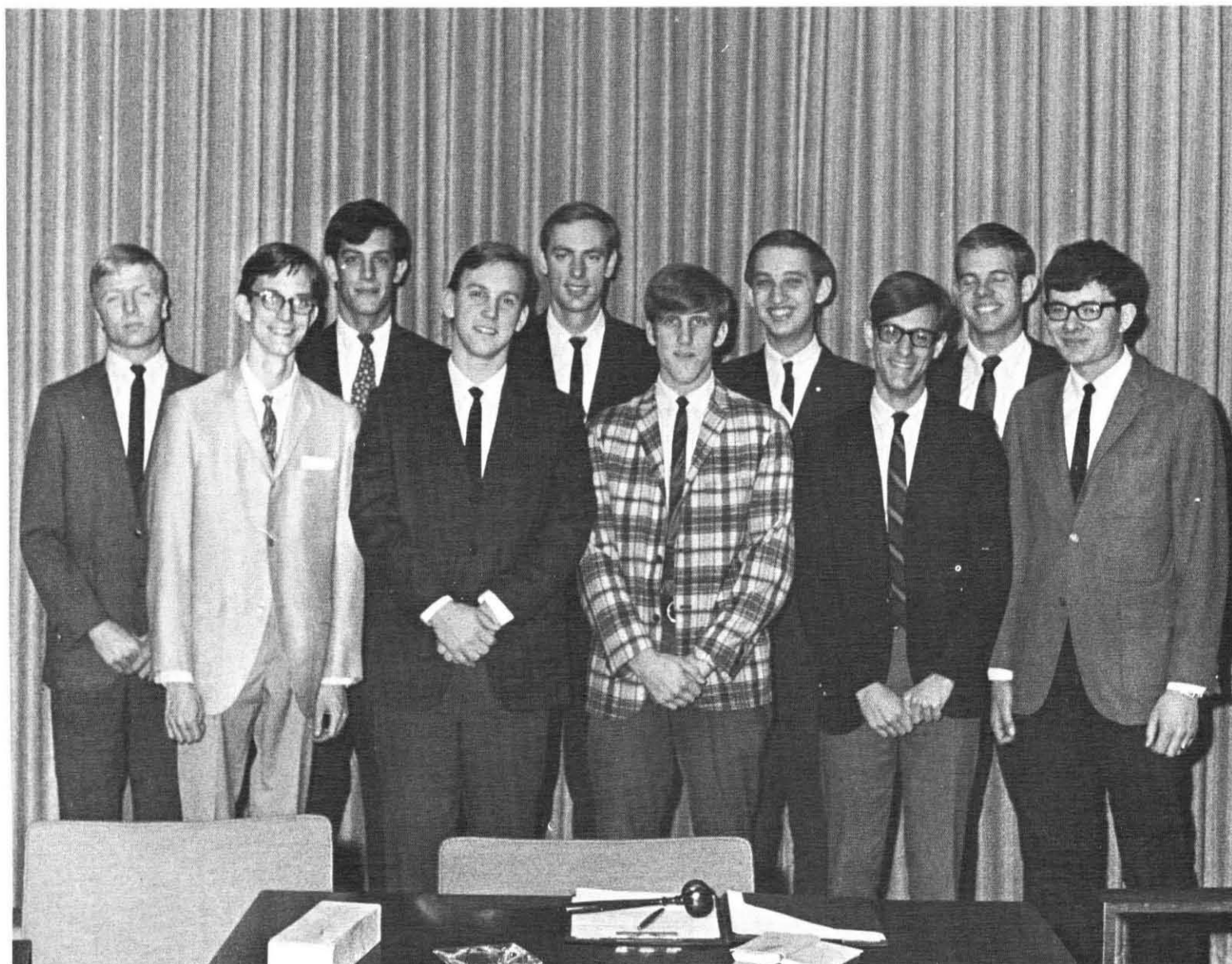
Power Corrupts



Joseph Rhodes, Jr.

Student government at Caltech reaches its peak in the ASCIT Board of Directors, charged with the general business of the Associated Students. Along with the common duties implied, this year's Board implemented several changes in the age-old student-institute relationship. The first Corporation Meeting in years was called and Academic Reform Groups were created to investigate changes in basic teaching philosophy and procedures. Many faculty committees were opened to student members. 1968 finds the Board involved in the first stages of a Student Research Project which is taking a long look at higher education around the country, and hoping to produce some positive changes through a large-scale study of the problem of air pollution. Through it all, the Board has tried to forge itself into the natural forum for student opinion and sweeping changes in the students' end of the Institute.

BOC



Front Row: Chris Dede, Jim Woodhead, Dick Wright, Larry Ruzzo, Dale Paynter. Second Row: Gregg Wright, Craig San Pietro, Terry Bruns, Peter Szolovits, Len Erickson, Chairman.

The sole duty of the Board of Control is the enforcement and maintenance of the Honor System. The Honor System is the guiding spirit for Techmen in their actions involving the Institute and their fellow students. Without the Honor System, life around here would be considerably more unbearable than it is now. Although having no power to enforce its decisions, its recommendations are usually followed exactly by the Deans. The BOC is an excellent representation of the student body to the faculty.

INTERHOUSE COMMITTEE



Seated: Len Erickson, Dabney; Larry Hunt, Secretary; Jon Haviland, Chairman; Norm Whiteley, Lloyd. Standing: Erno Daniel, Ruddock; Craig Nelson, Ricketts; Rob Drew, Page. Not Shown: Lee Johnson, Blacker; Dick Wright, Fleming.

The IHC is the group which has jurisdiction on matters which concern all the houses. This year it was the forum for discussion of the new rotation system and the family style versus cafeteria style lunch debate. The committee also has charge of the Freshman Visitation Program, as well as Interhouse and Discobolus sports, and of Interhouse Sing.



EPC

This amazing group is the Educational Policies Committee, which is charged with acting on student complaints in the academic field. Besides talking with the faculty on various course problems the EPC has grappled with such issues as humanities requirements and the admission of women.



Seated: Armand Tanguay, Mark Jackson, Bob Enenstein (Chairman), Neil Wright; Standing: Joe Feng, Jeff Hecht, Gene Smith, Charles Fisher, John Hockert, Not Shown: Kevin Savage, Eric Jensen, Marshall Rieger, Bob Drea, Joe Jeffrey, Jay Freeman.

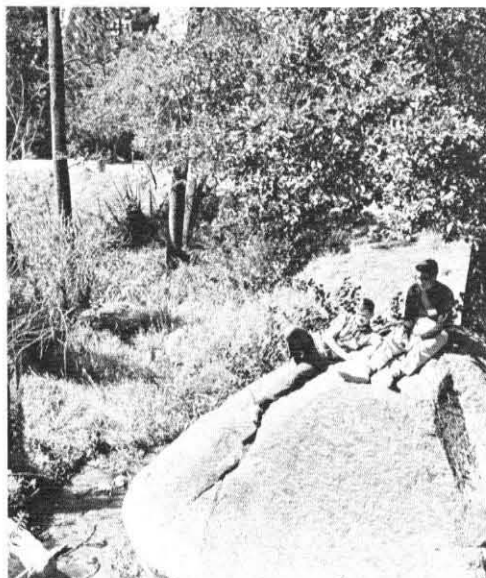
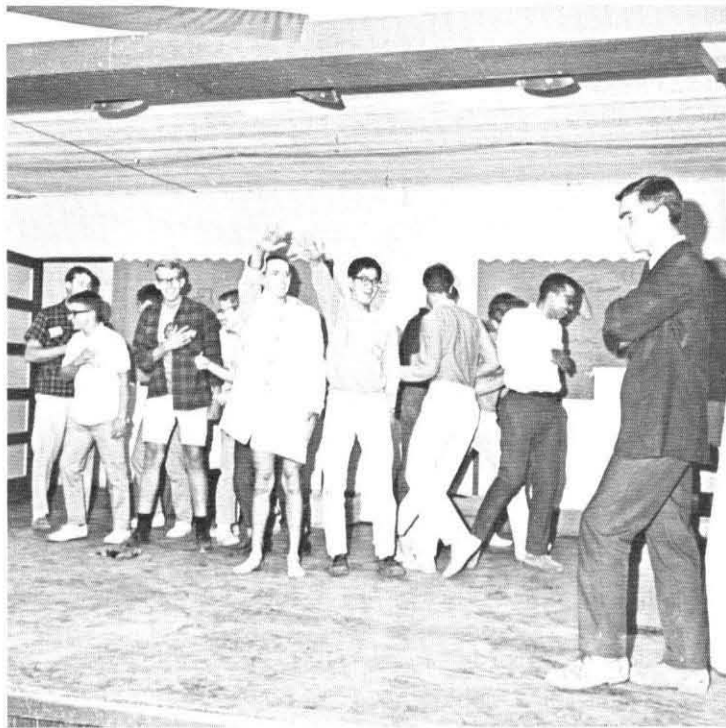
EXECUTIVE COMMITTEE

ASCIT's planning and problem solving branch is a group of eight students appointed by the BOD. This year the ExComm worked with the EPC through the Ad Hoc Committee on undergraduate women at Caltech to successfully present proposals to the faculty on the reasons for admitting women, and to find solutions to the problems that arose. The ExComm also studied the inner workings of ASCIT and presented proposals for changes in the overall structure. Other areas of work included discussions on the status of the **California Tech** within ASCIT, Choice 68, etc.



Seated: Jeff Hecht, Rich Flammang (Chairman), Sam Logan. Standing: George Jackson, Larry Shirley (Secretary). Not Shown: Kermit Kubitz, Craig McAllister, Ed Seguire.

FRESHMAN CAMP

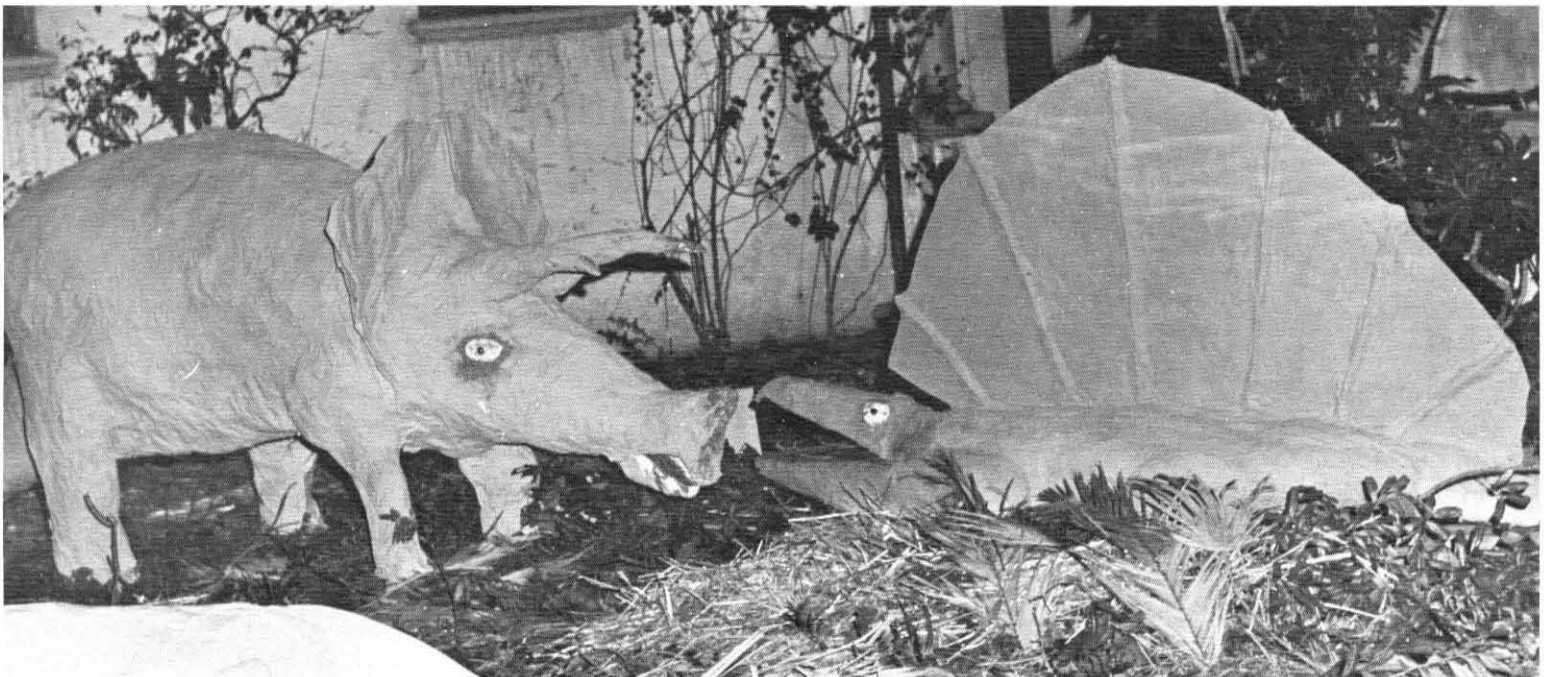
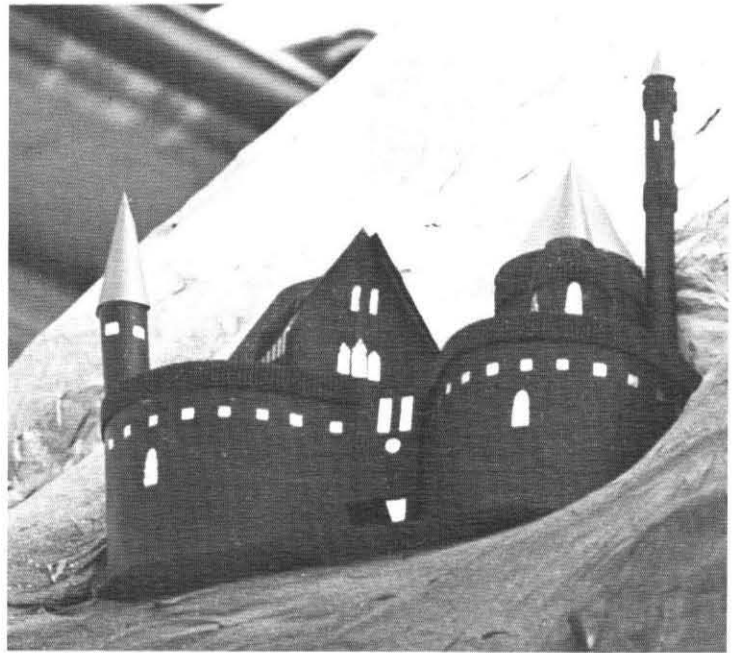


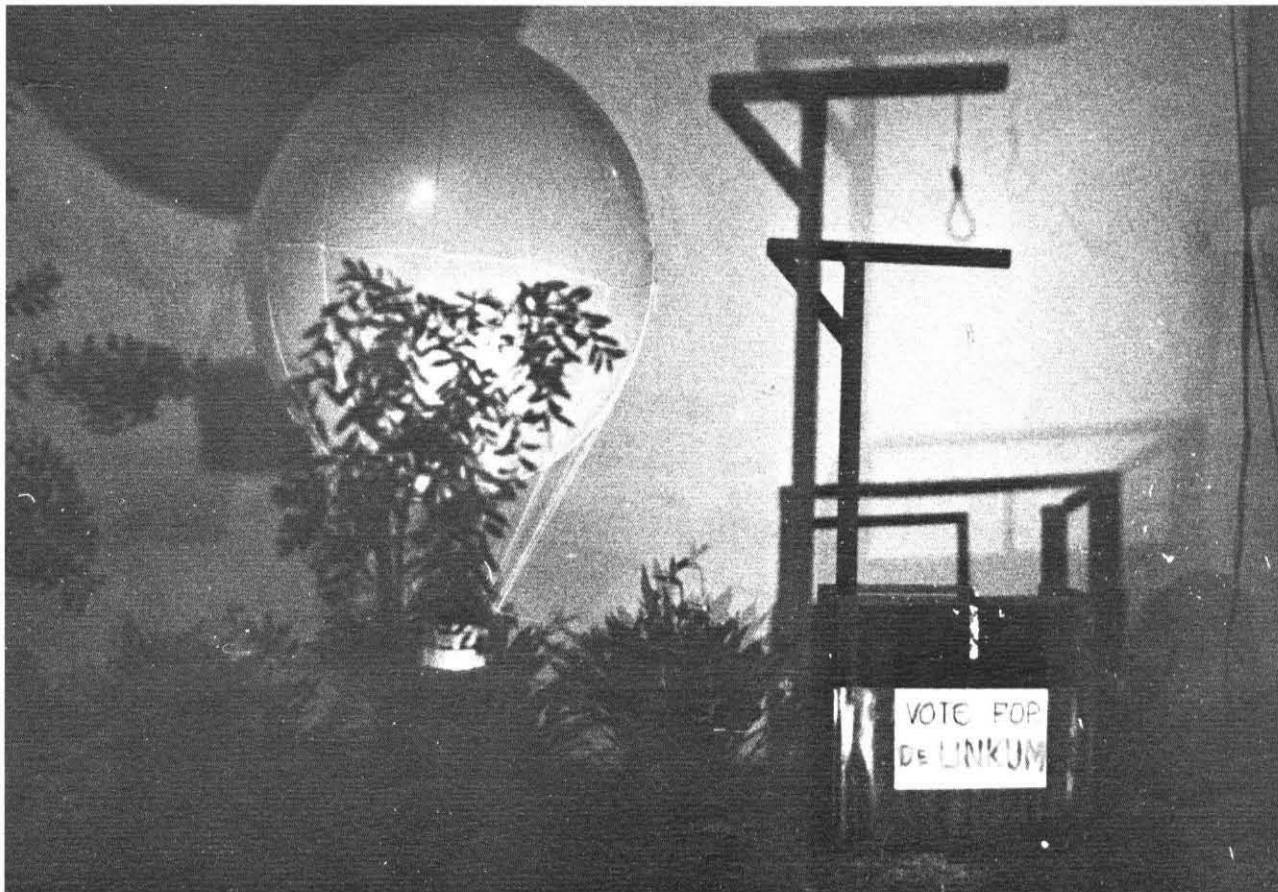
MUDEO

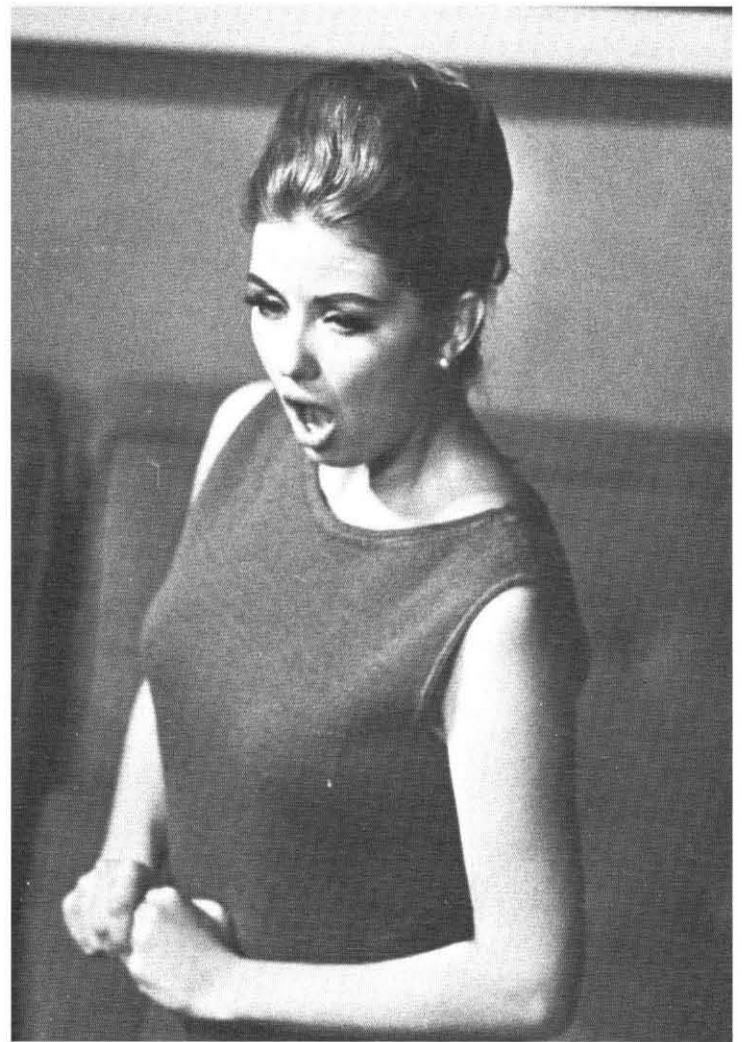


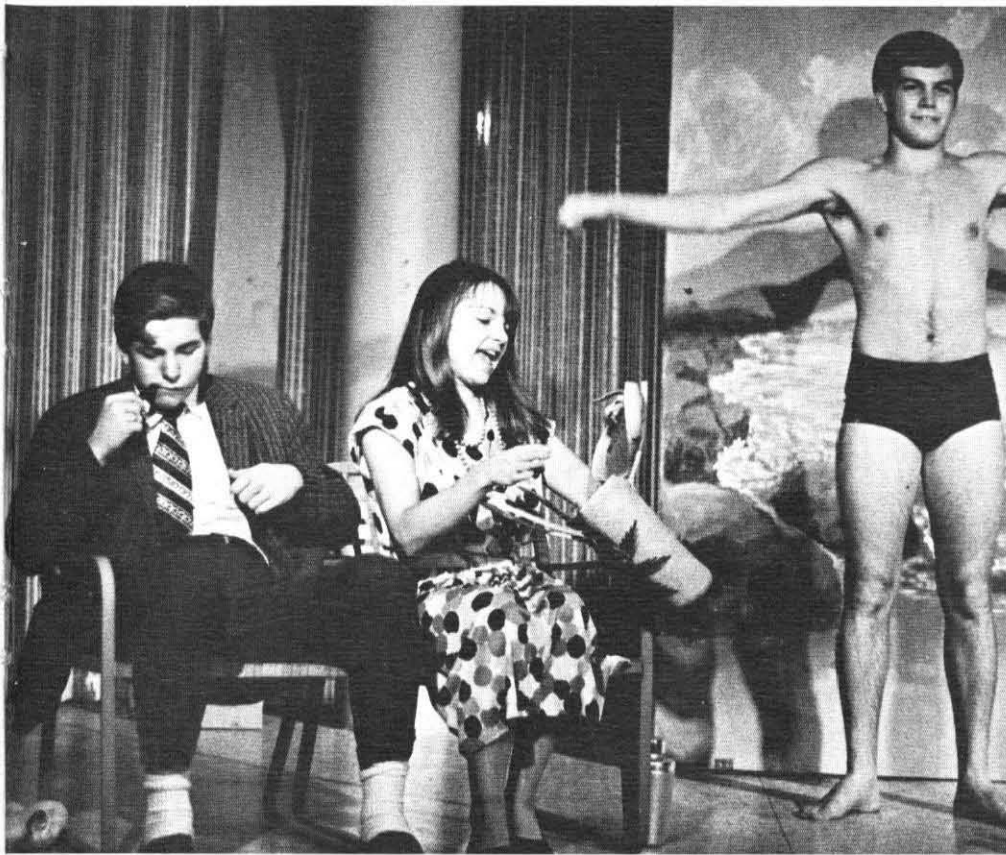
INTERHOUSE DANCE











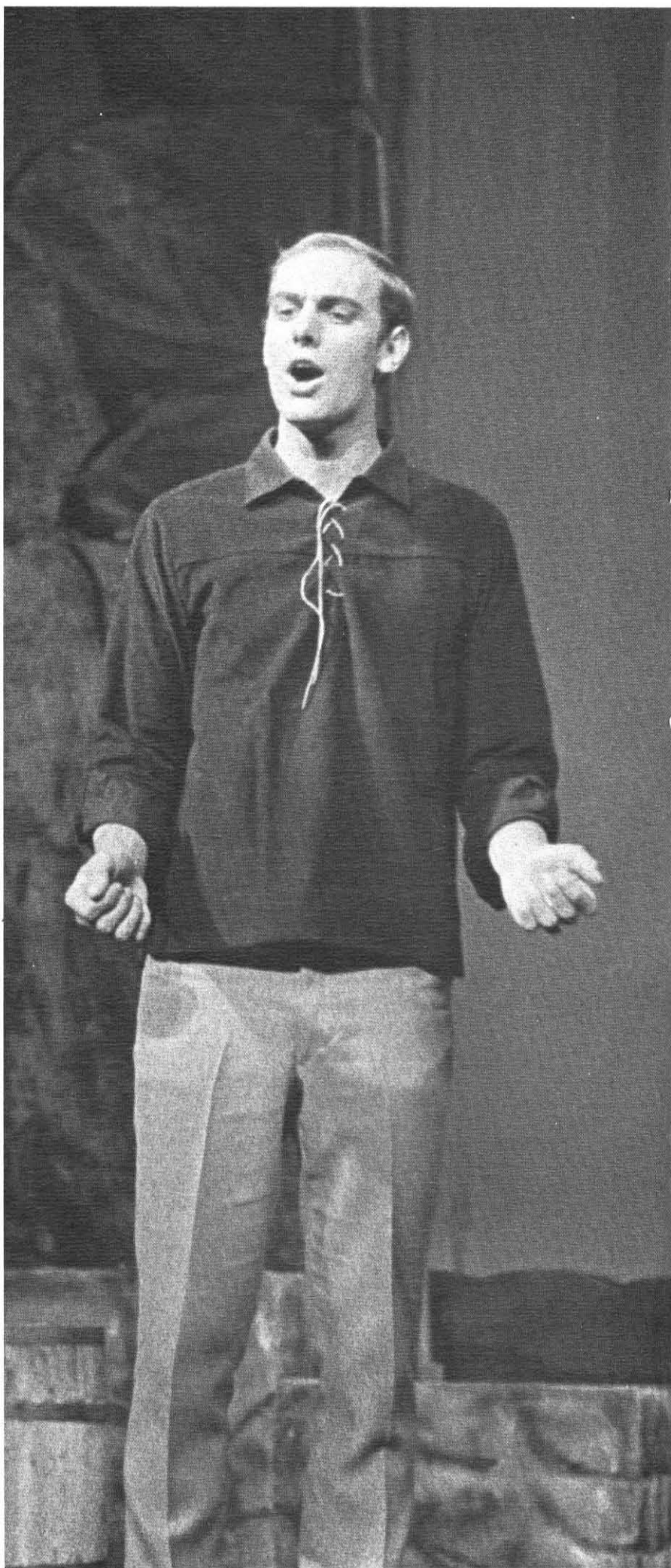
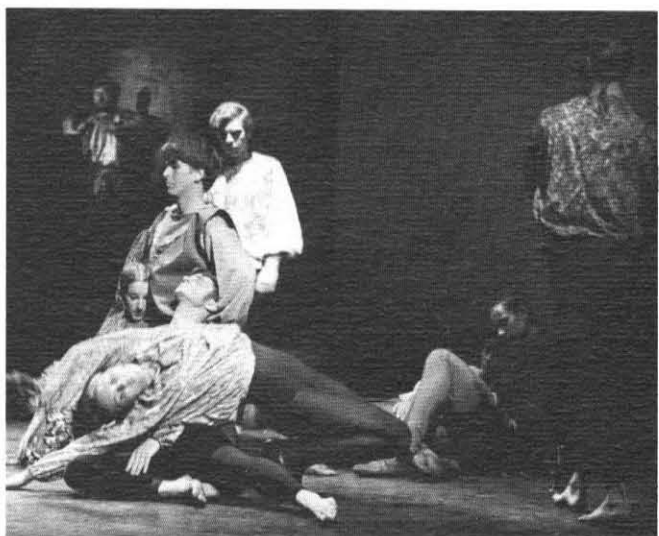
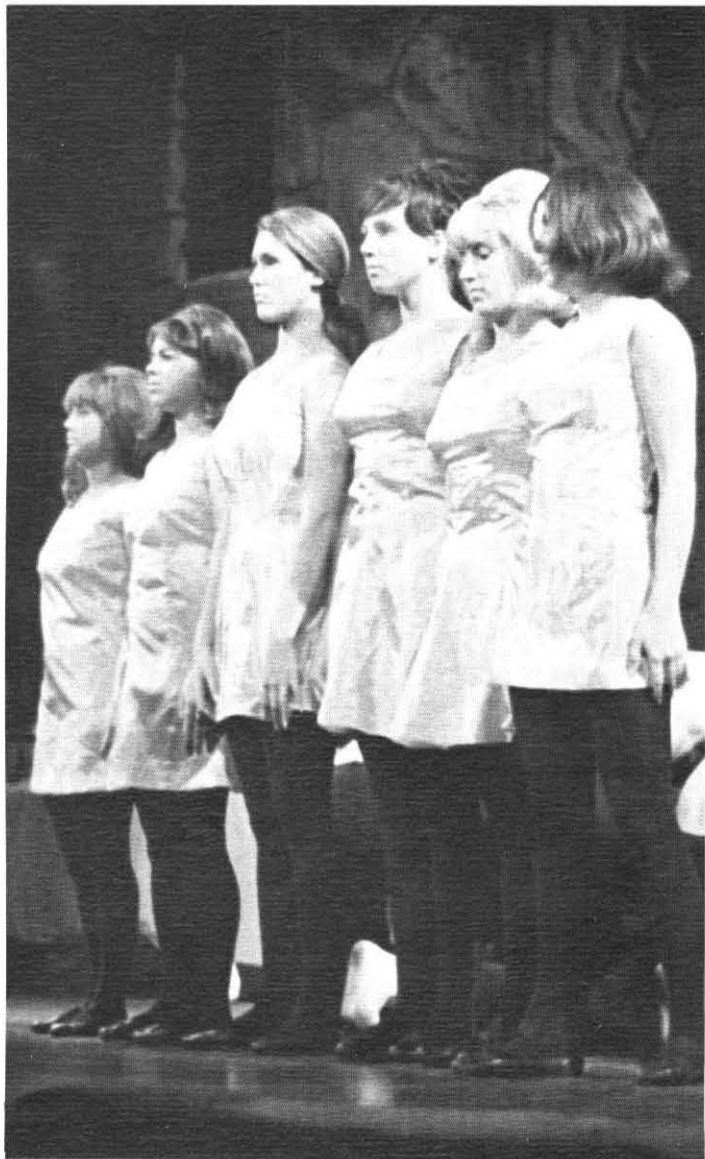
DRAMA CLUB



Its ranks swollen by a flood of talented freshmen and beautiful girls, the Drama Club accomplished the impossible by turning Winnett Student Center into a theater, and followed this with a swan song in aging Culbertson Hall to the tune of Thurber's "The Male Animal," under the energetic direction of alumnus Jon Evens. Persevering in the face of vast public apathy, the Drama Club continues to fight the myth that Techers' talents are confined to the realm of science, and to bolster public confidence in their dying art.

MUSICAL

Once again Caltech's musical talent produced a musical play that was presented at Beckman Auditorium. While the talent was not professional, and the musical is not yet world famous, its performance was an enjoyable evening for all.



HONOR AWARDS

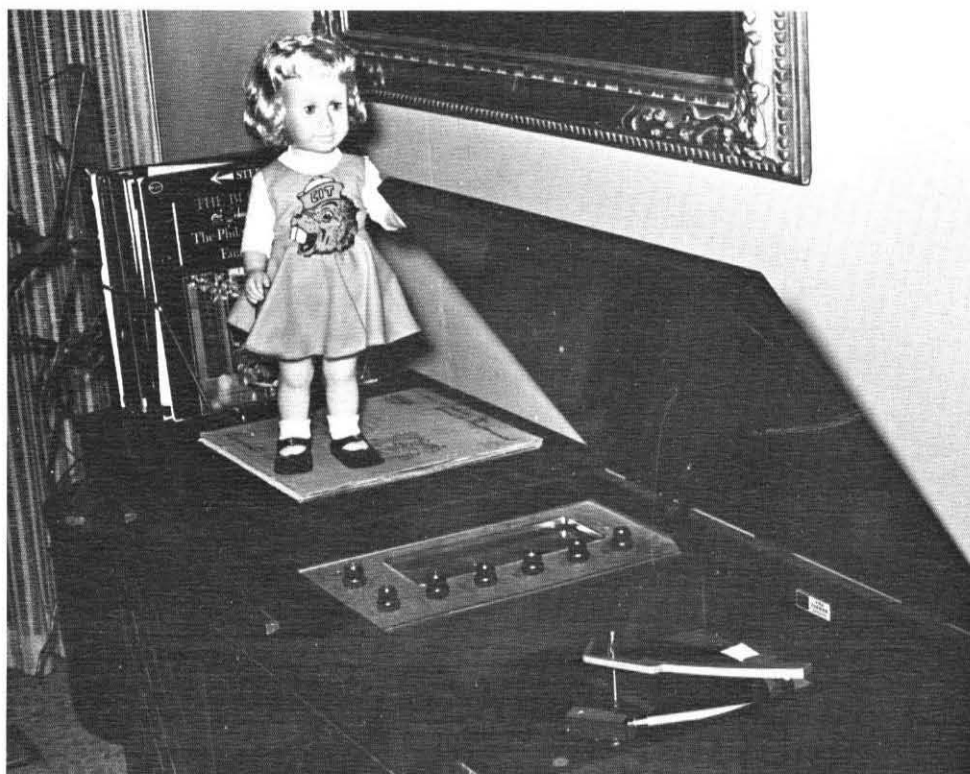
KEYS

John Cummings
Chris Dede
Rich Drews
Len Erickson
Les Fishbone
Jay Freeman
Mike Garet
Jon Haviland
Vince Johns
Ken Kamm
Will Manning
Gavien Miyata
Dan Nemzer
Steve Pomeroy
Joe Rhodes
Larry Shirley
Dick Wright
Jim Beck
Terry Bruns
Tom Burton

CERTIFICATES

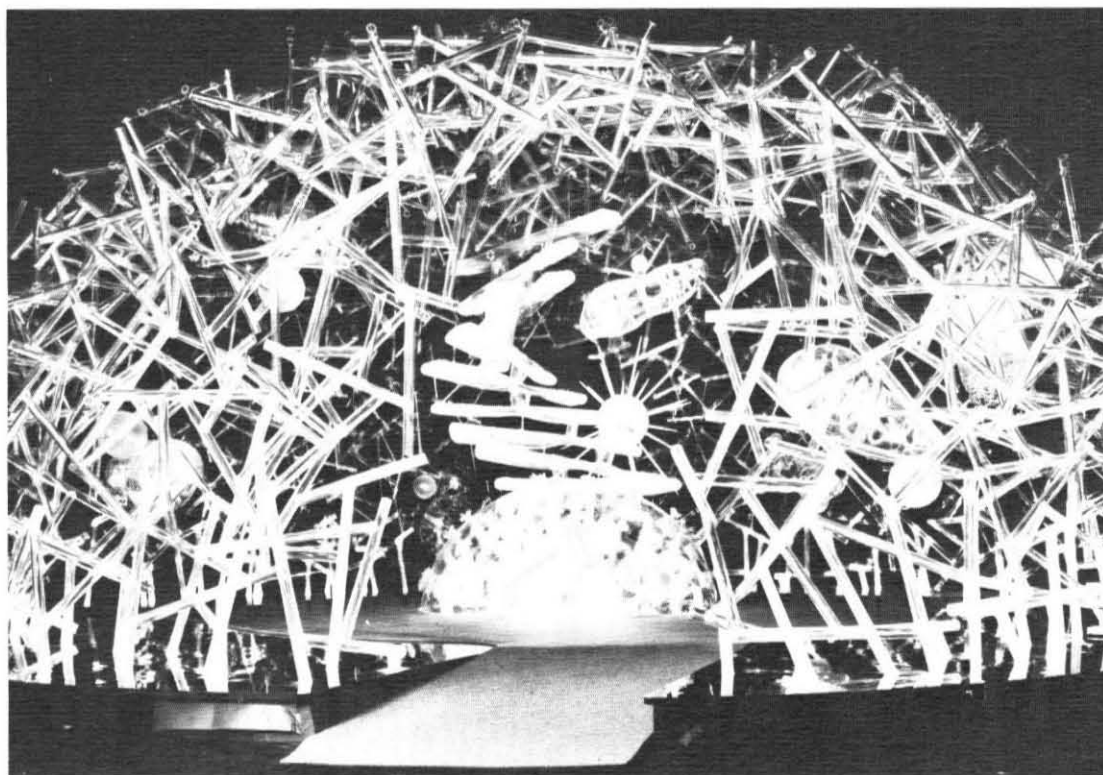
John Dancz
Erno Daniel
Henry DeWitt
Martin Dowd
Jim Downum
Rob Drew
Greg Evans
Bob Fisher
Bart Gordon
Kermit Kubitz
Barry Lieberman
Craig Nelson
Dave Perasso
Rich Rubinstein
Bruce Samuelson
Dave Schor
Mike Stefanko
Pete Szolovits
Norm Whiteley

SERVICE LEAGUE



The Caltech Service League provides a long list of services to the Caltech student body. Their contributions are evident in many places on campus, from the piano and hi-fi in Winnett to the smiling face of the Techman whose girl is able to spend a weekend at Tech because the ladies of the Service League are willing to spend long hours as chaperones. The Service League is a source of aid for many a distressed Techman, whether he needs a pair of tux pants for the formal, or flower arrangements for a house party. Many of the pictures in this annual were developed and printed with darkroom equipment donated by the League.

A S M E



The student affiliate of the American Chemical Society is an informal organization that exists mainly so that chemistry undergraduates may enter the annual ACS student projects competition held in May. Caltech regularly sweeps a large number of the top awards. The student affiliate also sponsors student-faculty meetings to discuss chemical research topics and chemistry graduate schools.



Caltech's chapter of the American Institute of Chemical Engineers has continued its effort to expose the student to areas of interest not normally covered in the classroom. Various topics ranging from patent law to the psychologists's role in management have been discussed by guest speakers at two dinner meetings held each term. Members also have the opportunity to attend meetings of the AIChE. In the past, activities of the year have been climaxed by a barbecue in Tournament Park.

ΤΒΠ

The California Beta Chapter of Tau Beta Pi is Caltech's only undergraduate scholastic honor society. Since 1921 it has conferred honor upon its initiates for their outstanding academic accomplishments and moral character. Unique in its affiliation with the national engineering honor society, California Beta is dominated now, as always, by scientists. Special problems are foreseen in the future when the national officers agonize over whether strongly science-oriented humanities students are equally eligible for membership. The year's activities were highlighted at the Fall Initiation when the Bents were on time for the first time in recorded history. The chapter extends its thanks to its advisory board: Professors Sharp, Corcoran, Sabersky, and Raichlen; and to past National President D. S. Clark.



Front Row: Dave Chang; Ken Garbade, President; Jim McWilliams; Ken Yano, Historian; Second Row: Marshall Schor; Dick Wright, Recording Secretary; Earl Whitehead; Clayton Jacobsen; Rich Flammang. Not Shown: Jay Freeman, Vice-president; Les Fishbone, Corresponding Secretary.

ΠΚΔ



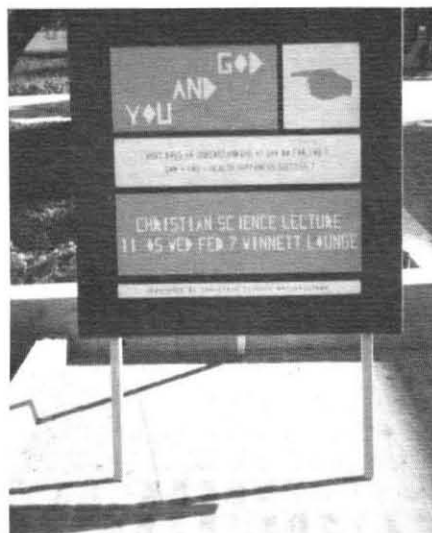
Mark Jackson, Gary Cable, David Dockstader. Sponsor Mr. Schon standing.

The California Gamma Chapter of Pi Kappa Delta is the second oldest active chapter in the state. Eligibility for membership is determined by participation in intercollegiate debate and competitive speech. In addition to attending tournaments throughout the year, the chapter sponsors the Caltech Computer-Controlled Debate Tournament on campus each February. This event was the first of its kind and is still the most successful in the nation.



The Caltech Christian Fellowship is an independent chapter of the nation-wide Inter-Varsity Christian Fellowship. Its purpose is the growth of its members in their knowledge and commitment to Christ, and the work of presenting Christ's message to others. Its activities this year included lounge discussions, Bible studies, prayer meetings, and two retreats with other Inter-Varsity chapters from the Southern California area. The group is non-denominational and is open to all those who would be interested in participating in a Christian Fellowship or simply curious about the Christian faith.

The LDS Desert Club offers to all undergraduates and graduate students a program of religious education and social activities which complement their more earthly interests at Tech.



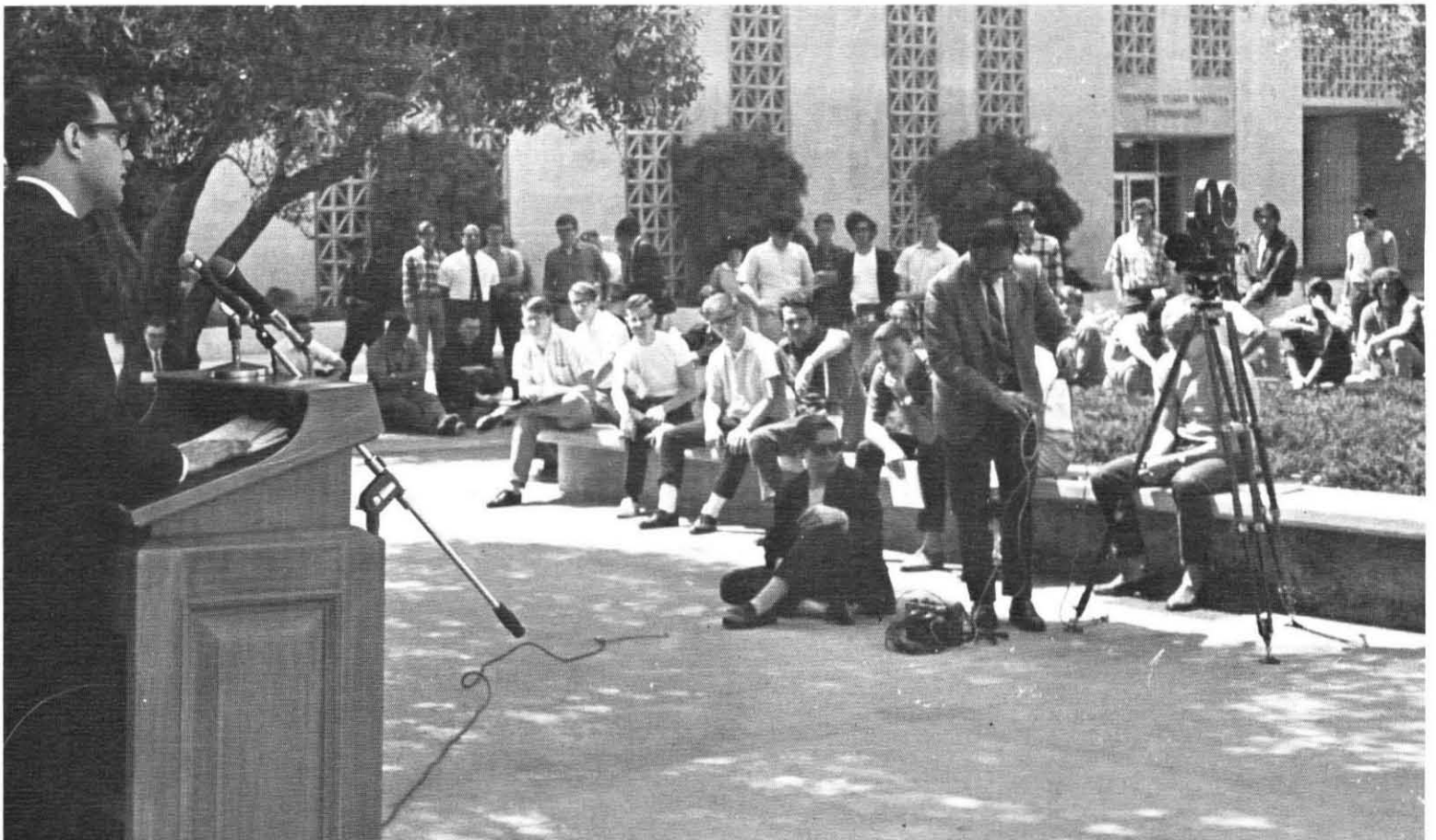
The Caltech Christian Science Organization seeks to bear witness to Christian Science's demonstration that a knowledge of God is practical in our daily lives. The organization is one of many on college campuses throughout the world. It holds weekly testimonial meetings (Thursday, 7:30 p.m. Winnett Clubroom 2) in which selections are read from the **Bible** and the Christian Science textbook, **Science and Health with Key to the Scriptures** by Mary Baker Eddy, and members discuss how an understanding of God and Man's relationship to Him has helped them. The organization sponsors an annual lecture on Christian Science by a member of the Christian Science Board of Lectureship and maintains a reading room in 308 Dabney Hall. Activities are intended to strengthen the individual's understanding of Christian Science so that he will become a better harmonizing agent in today's troubled world. All members of the campus community are cordially invited to become acquainted with scientific Christianity, which offers solutions to all human need.

The Caltech Newman Club has offered the campus this past year numerous seminars and discussions on topics of crucial interest such as conscientious objection and the use of drugs. The purpose of the organization is to promulgate knowledge of the Catholic faith and practices among the student body. Toward this end, the Club has sponsored Masses on campus occasionally during the year. While Tech's Newman club is primarily intellectually oriented, there are occasional social activities with other local Newman Clubs.



Y R

The Caltech Young Republicans is one of three officially recognized political groups on campus. Meetings and planning this year centered around the upcoming June 1968 primary in California and, of course, the general elections. Some speakers were invited for the monthly meetings and for increased campus political involvement, and a more active liaison was sought with Republican Senators, congressmen, Governors, and Assemblymen.

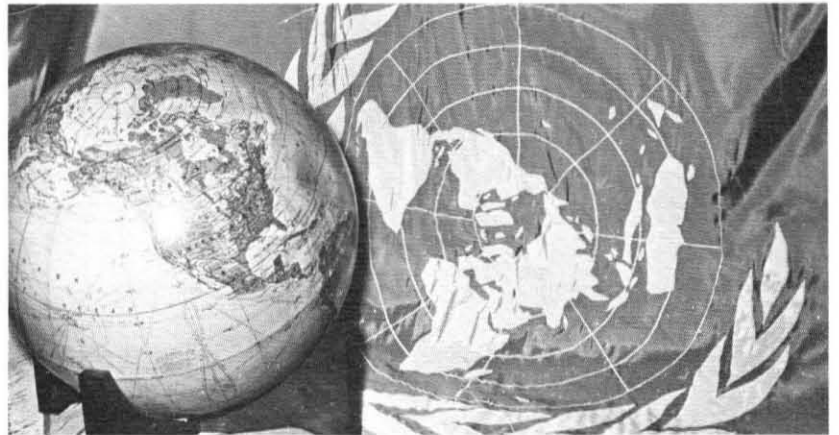




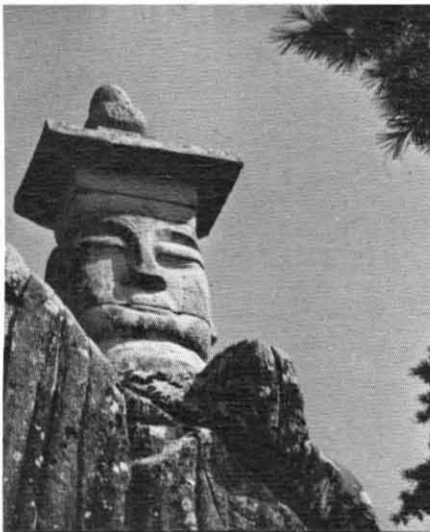
The Caltech Karate Club, the oldest university Karate Club in the United States, is dedicated to the idea of building the individual both mentally and physically. Under the instruction of Mr. Tsutomu Ohshima, the club has produced several black belt holders in the past years, some of whom are presently running the Southern California Karate Association.

This year the Karate Club sponsored an exchange practice at Caltech during the first term attended by the clubs from Long Beach City College and the University of California at Santa Barbara. During the second term the club sent five people to a special training session at Long Beach. This session did a lot for the participants and the club as a whole hopefully may benefit from their experience. As always the Karate Club will again be looking forward to a new and possibly stronger year with eager beginners, and look back on the past year with some feeling of accomplishment.

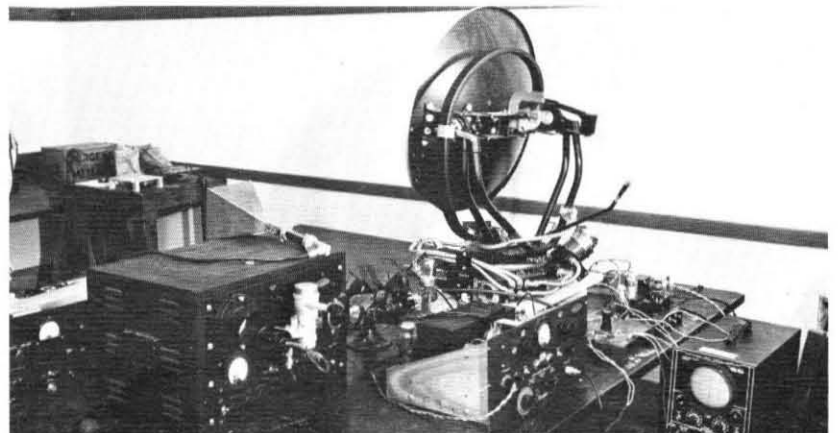
M U N



The Caltech Chinese Student Association starts off every year with an initiation and election meeting early first term to welcome new members and to elect new officers, always in very modest Oriental fashion. With a close link to other Chinese Clubs in LA colleges and vicinity, CCSA competes with them in various sports and helps them in social events. Highlights of the year include one or two dances on campus, ping-pong and Bridge Tournament, basketball game against UCLA, and a couple of picnics and a beach party.



Meeting but once a term, the Caltech Radio Club is a strictly informal organization. Membership is open to anyone with an interest in ham radio. Members are free to use the "shack" in upper Winnett any hour of the day or night, anywhere from 3.5 to 144 MHz on code, AM phone, or SSB. Equipment includes an Eldics sideband exciter, an HQ-170 Receiver, a VHF transceiver, and a newly constructed linear amplifier. Spreading the voice of Tech to the outside world are the antennas on Spalding.





The Caltech Sailing Club is open to all students and faculty interested in sailing. The club sponsors sailing activities on three levels—instructional, recreational, and competitive. Largely at the suggestion of the Sailing Club, the athletic department hired Ray Wallace of the Los Angeles Yacht Club to teach sailing as a P.E. course open to all students except freshmen. For those who already know how to sail, the club owns and maintains three dinghies and one sloop. These boats may be used at any time by anyone who joins the club and demonstrates his ability to sail. For the third level of activity, the club owns two Lehman class racing dinghies and belongs to the Pacific Coast Intercollegiate Yacht Racing Association. Racing is limited to undergraduates, however, by Association rules. The club participates in about ten regattas each year, mostly during the second term.



The Alpine Club, with advisor Chuck Wilts, is involved in rock climbing and other unusual activities. The club's members come from undergrads, grads, and even research fellows. The donation of some equipment by local stores has been a big incentive. Millikan continues to serve as a good practice ground for working out the fine points of your skills.

The Caltech Computer Club, known to members as the "KKK," offers students the opportunity to use the extensive computing facilities on campus for projects of individual interest. Sponsored by the Computing Center, and advised by Dr. Frederick Thompson, the Computer Club regularly invites experts in computer usage, from commercial artists to software researchers, to campus to speak on their particular fields of endeavor. Some of the projects undertaken by club members this year include the exploration of number theory applied to distribution of leading digits in random numbers, weighted capital flow in econometrics, and a display of three-body gravitational attraction.



CHEERLEADERS



COFFEE HOUSE

1967-68 saw the Coffee House come full cycle in hopes and expectations and start back again. Myriad groups and committees were formed to bring it into existence and the whole operation was put into the unsuspecting hands of Steve Pomeroy, the first Coffee House Manager. When, much to his dismay it was discovered that the Coffee House could not only not make money, it could not come close to breaking even, he turned it over with suggestions for improvements to a team of eager sophomores (Jim Henry, Ed Schroeder, and Kent Assmussen, R.I.P.) who quickly found the same thing, but only after the Coffee House had become known for its Hootenannys and Light Shows. With heavy heart the House was closed early for the summer while new methods were thought out to make it a viable concern, and with any luck will open again first term next year, and this time permanently:



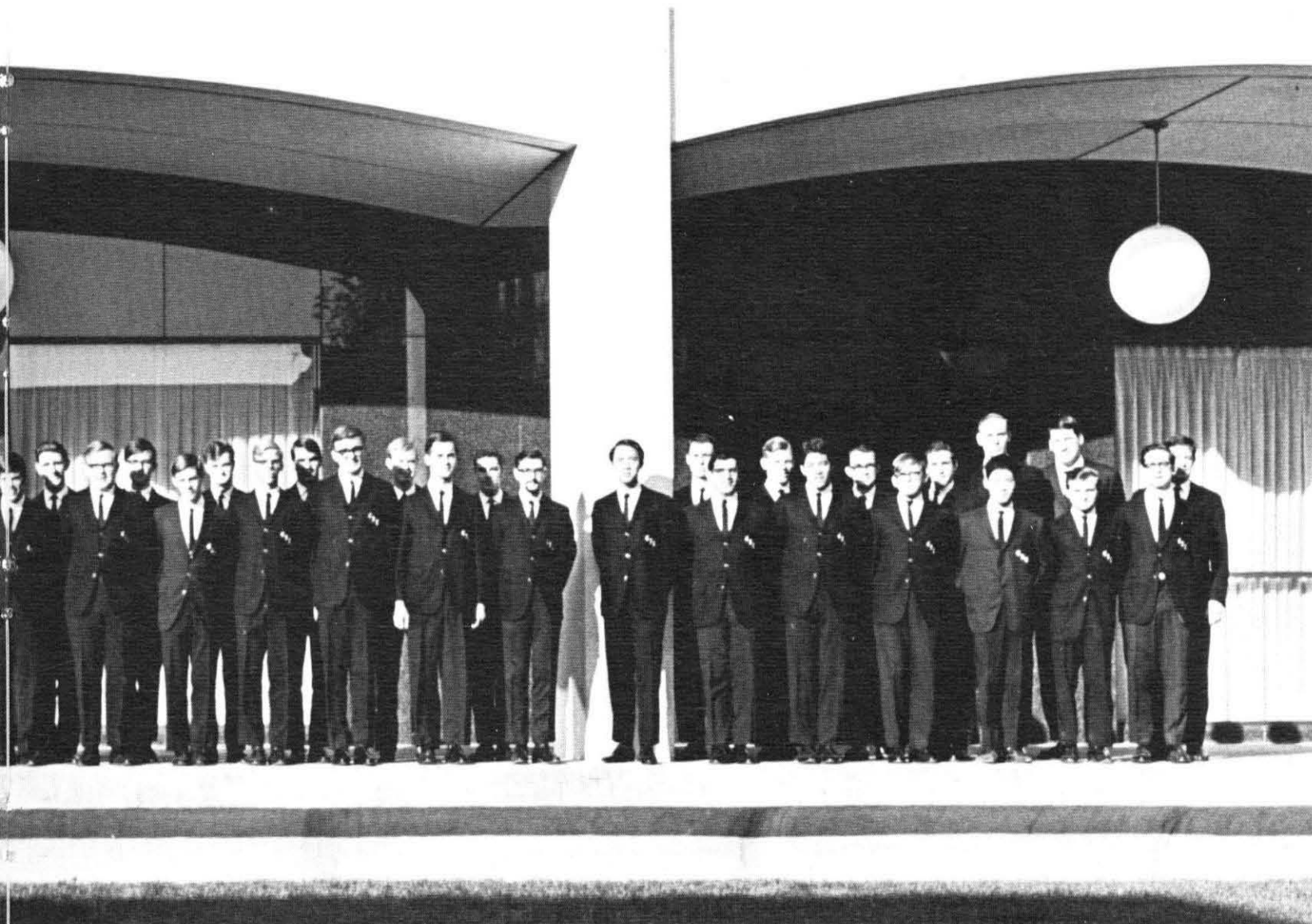
GLEE



The 52nd Season of the Caltech Glee Club again was a successful one, highlighted by our tour of the San Francisco Bay area in March. Director Olaf Frodsham, in his fifteenth year with us, and assistant Director Priscilla Remeta led us through a very busy schedule of rehearsals and concerts, culminating in our Annual Home Concert in Beckman. Three hours of singing a week make very worthwhile punting.

The Club is one of the largest and most active organizations on campus, consisting of nearly ten percent of the undergraduates and several loyal grad students. The Chamber Singers and the Quartet give some members an opportunity to engage

CLUB



in different types of music for small ensembles. This year we sprinkled our concerts with vocal and piano solos and selections by the newly-formed clarinet trio. In addition, the Chorale remains a valuable training chorus and source of new members.

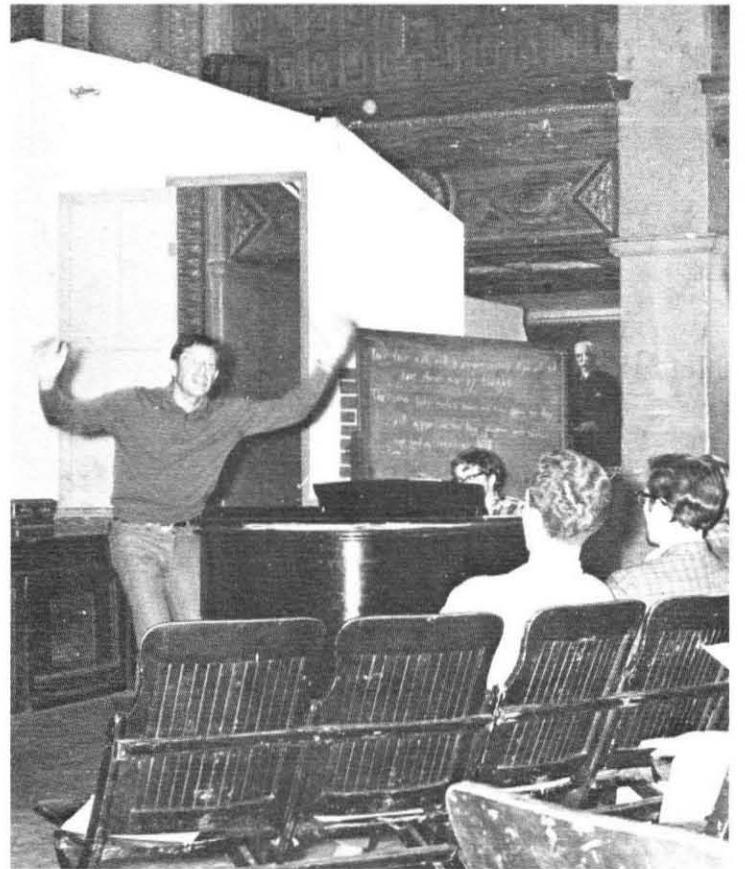
Our major concerts included those for the Los Angeles Rotary Club, the Los Angeles Ebell Club, and the Pasadena Philharmonic Committee. In addition, we sang in the Athenaeum and for Students' Day. The tour including stops in Long Beach, Solvang, Monterey, Santa Clara, Old Town in Los Gatos, and several cities in the South Bay Area.

In the past we have sung for the closing ceremonies of the 1960 Olympics in Squaw Valley and have toured the Midwest and New York. Now, after two tours of Northern California, we begin making plans for a trip to Hawaii next year.

Our officers this year were Gregory Kourilsky, president; Dan Chang, vice-president; Ken Kamm, manager; LeRoy Nelson, assistant manager; Vince Johns, secretary; Roger Goodman, treasurer; Dave Schor, coat manager; Dick Neu, librarian; and Craig McCluskey, assistant librarian.

Musical leadership was also demonstrated by student conductor Dan Nemzer and accompanists Dave Erlich, Philip Hay, Art Johnson, and Glenn Prestwich.

President DuBridge has often commented that the men of the Glee Club are some of the finest ambassadors this school has.



INTERHOUSE SING



The Blacker Chorus, directed by Dan Nemzer



The Ricketts Quartet: Charles Devoe, Bob Tarjan, Eric Jensen, and Pete Rumsey.

Blacker House made it five in a row in the Fourteenth Annual Interhouse Sing this year, in a close race with Ruddock. The winning Blacker chorus sang "Vere Languoes," "Moon River," and the traditional song "John Henry." They were followed by Ricketts, Fleming, and Lloyd (the latter featuring the three SRA's from the ASCIT Research Project). Ricketts took the Quartet Trophy with good renditions of "Little Innocent Lamb," "I Wonder Who's Kissing Her Now," and "Sincere." They were followed by Dabney, Blacker, and Ruddock. Last but not least the audience was treated to "AM 95" and "ARP" sung by the "Empty Set," a totally random group put together just for the occasion. Dr. Sharp was M. C. this year.



The Ruddock Chorus, directed by Terry Bruns



The Ricketts Chorus, directed by Walt Jaffe



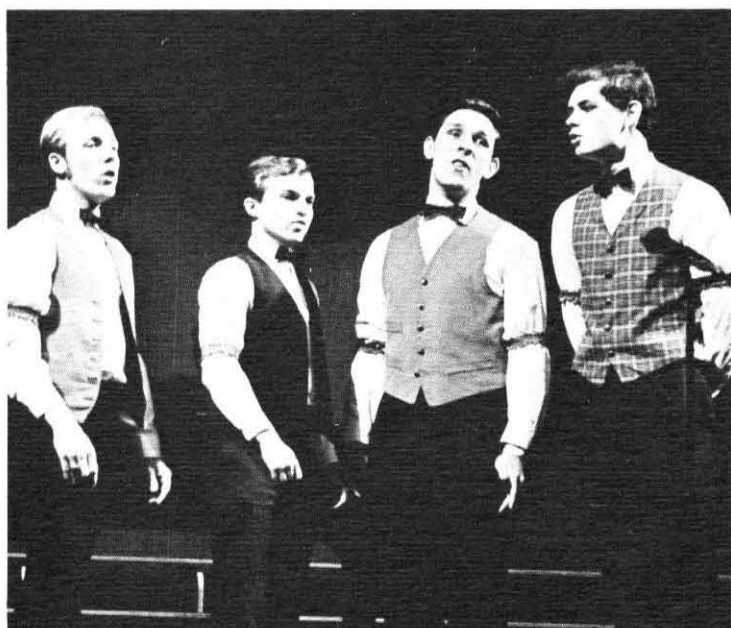
The Fleming Chorus, directed by Martin Flannery



The Lloyd Chorus: Six and the Single Girl



The Empty Set: Jeff Moller, Mark Radamonski, Jim Leininger, and Bob Flake.



The Dabney Quartet: Kirk Mathews, Phil McClure, Al Schwenk, and Dave Perasso



The Blacker Quartet: Craig McCluskey, Dick Neu, Marshall Schor, and Ken Kamm

The Ruddock Quartet: Mike Sperry, Terry O'Neil, Terry Bruns, and Ian Kling



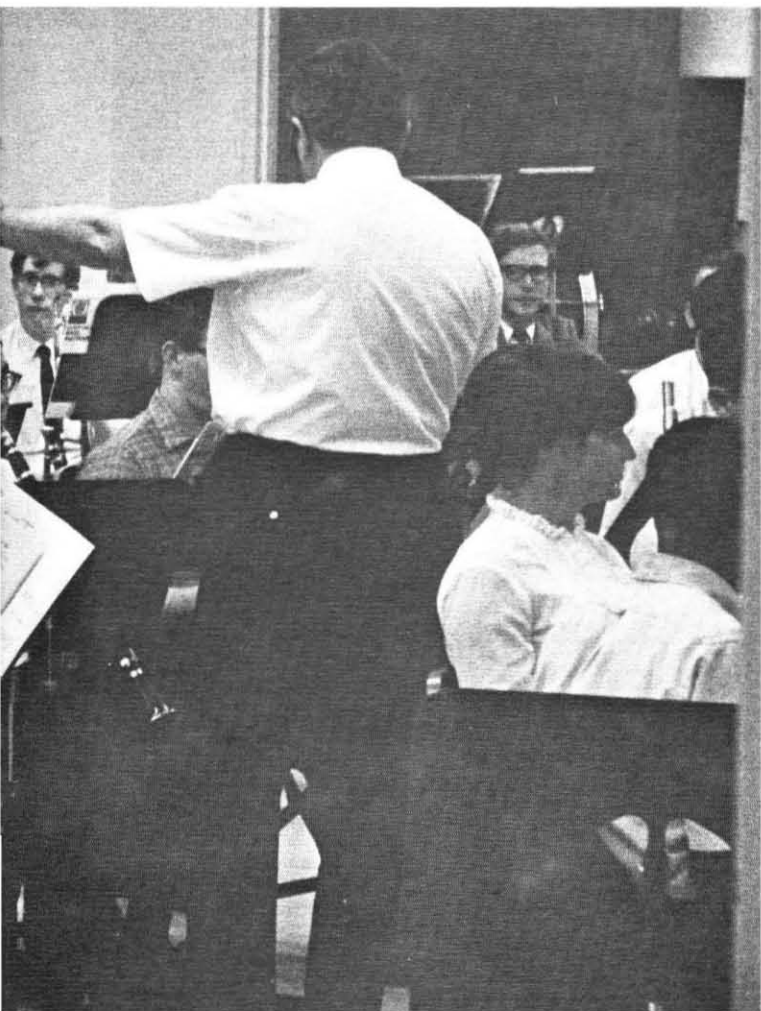
M. C., Dr. Robert Sharp



BAND

The band was small but enthusiastic this year—keeping up many of its old traditions and adding some new ones. As always, the football games were enlivened by the red coats and bright sounds from the band, who maintained in their repertoire such old favorites as "On, Wisconsin!", but added some new ones like Tijuana Brass music, "Downtown", and even "Waltzing Matilda!" as a concert band, under the direction of Mr. John Deichman, the group presented the formal spring concert on April 20, with music ranging from Handel's **Prelude and Fugue** and Mozart's **Impressario** to a swinging version of "Days of Wine and Roses" and highlights from the musical **Man of La Mancha**. The year ended with the annual concert in the park in the Pasadena bandshell. Band officers this year were Dave Kolb, Manager; Larry Shirley, Secretary; Bob Goddard, Assistant Manager; and Greg Rewoldt, Librarian.





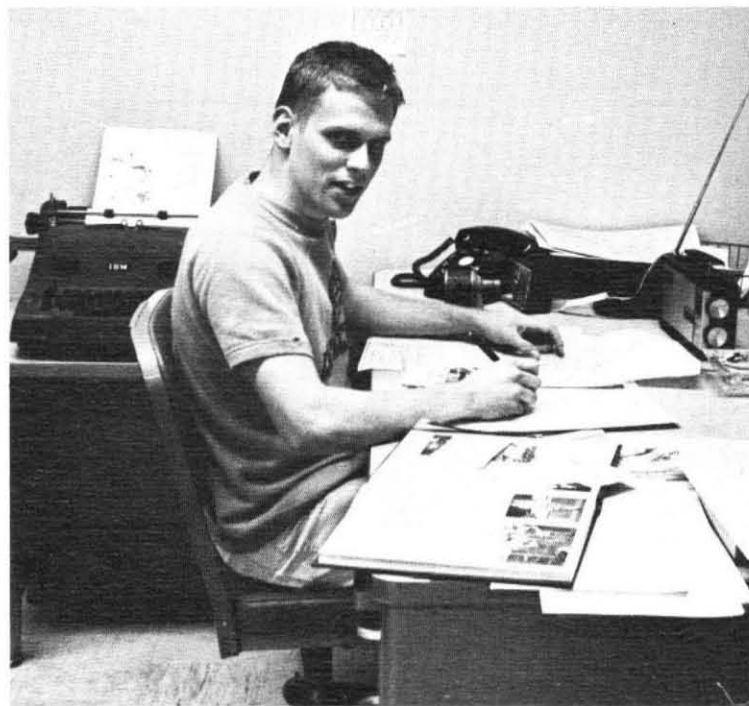
THE BIG T

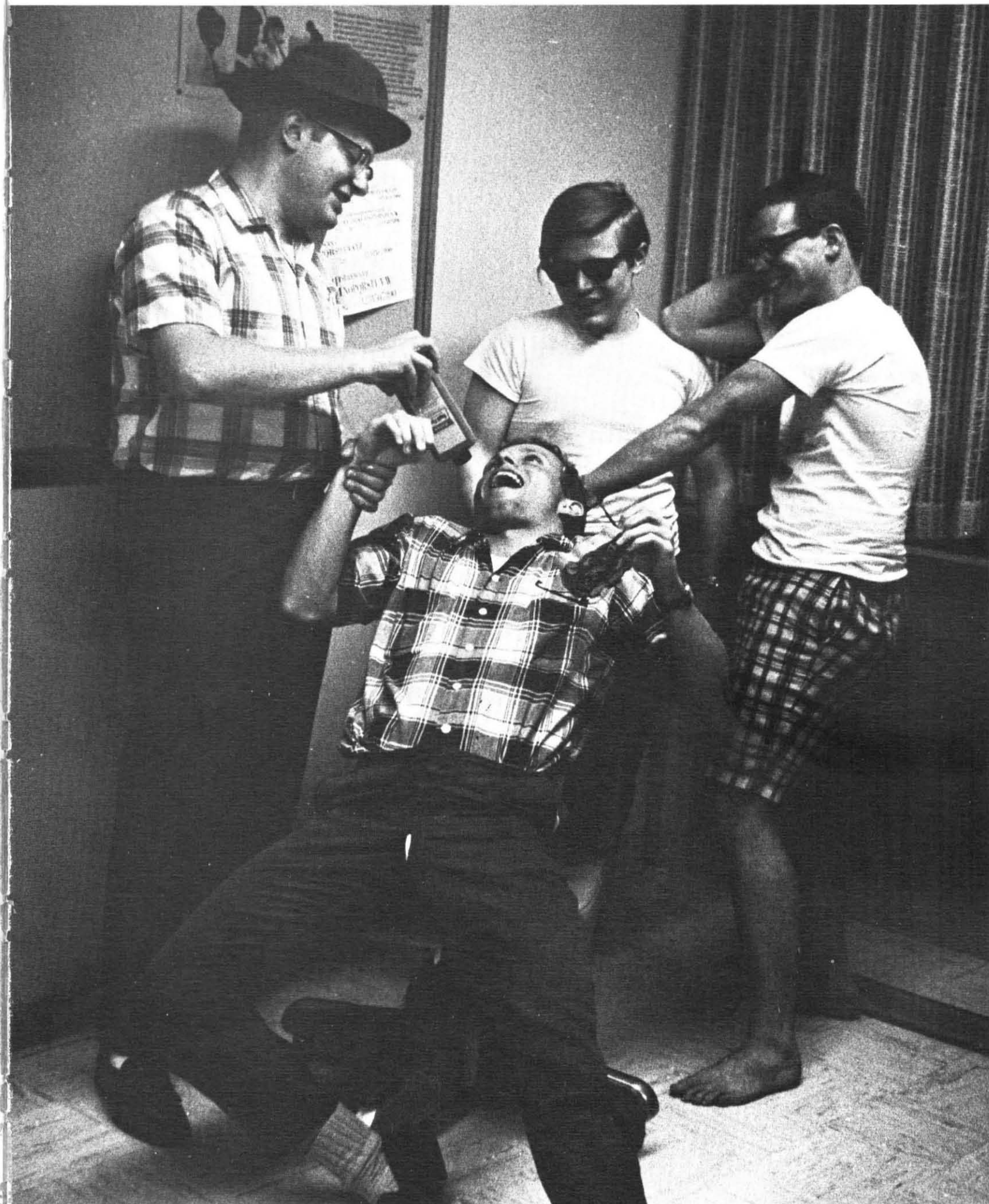
This year's **Big T** is the product of many man hours of unexciting labor put forward not only by the editors, although they may think so but also by a dedicated, occasionally, but small staff. Ed Seguire handled the money for the full year, one of the few times that a business manager has survived that long, then again he got married at the end of the year so it is not clear that he really survived. Chip Smith again handled the house section this year, a horrible section that comes out worse by the time one tries to use the material submitted by the various houses. Much to his regret he is not entirely responsible for all of the material that went into that section. Steve Pomeroy occasionally found time out from his other ASCIT duties to work on the activities section, while Pete Zassenhaus made the mistake of volunteering to do the drudgery of the senior section.

And then there is a long list of photographers that worked occasionally toward producing the many pictures in this book while keeping the bad ones to a minimum. And of course we always relied on Jim McClanahan and the staff at Graphics Arts for the good pictures we needed or were too lazy, or forgetful, to get ourselves.

Meanwhile the editors have conveniently scheduled the book to arrive long after they have left the area.

Editors DeWitt and Haviland discuss a picture they think they really ought to use, if they can decide where, while the real workers of the staff Pomeroy and Smith get the work done. The games win out of course, when DeWitt says something stupid and the whole staff decide to throttle him, opposite.





Dear Lee A.,
Please don't
call me.

California Tech

Associated Students of the California Institute of Technology

I'll call you.
Lyndon

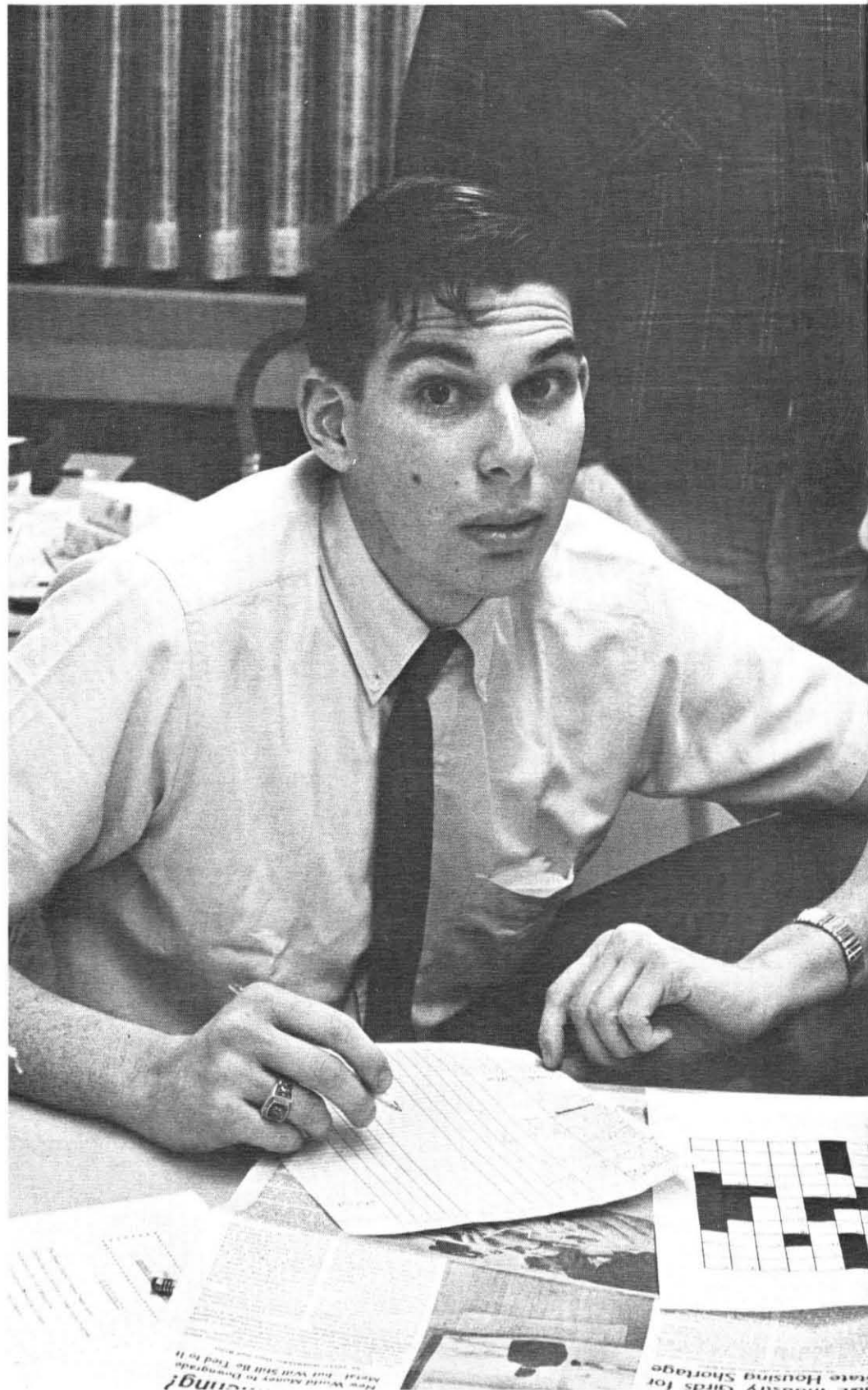
YOU CALL THIS A NEWSPAPER †

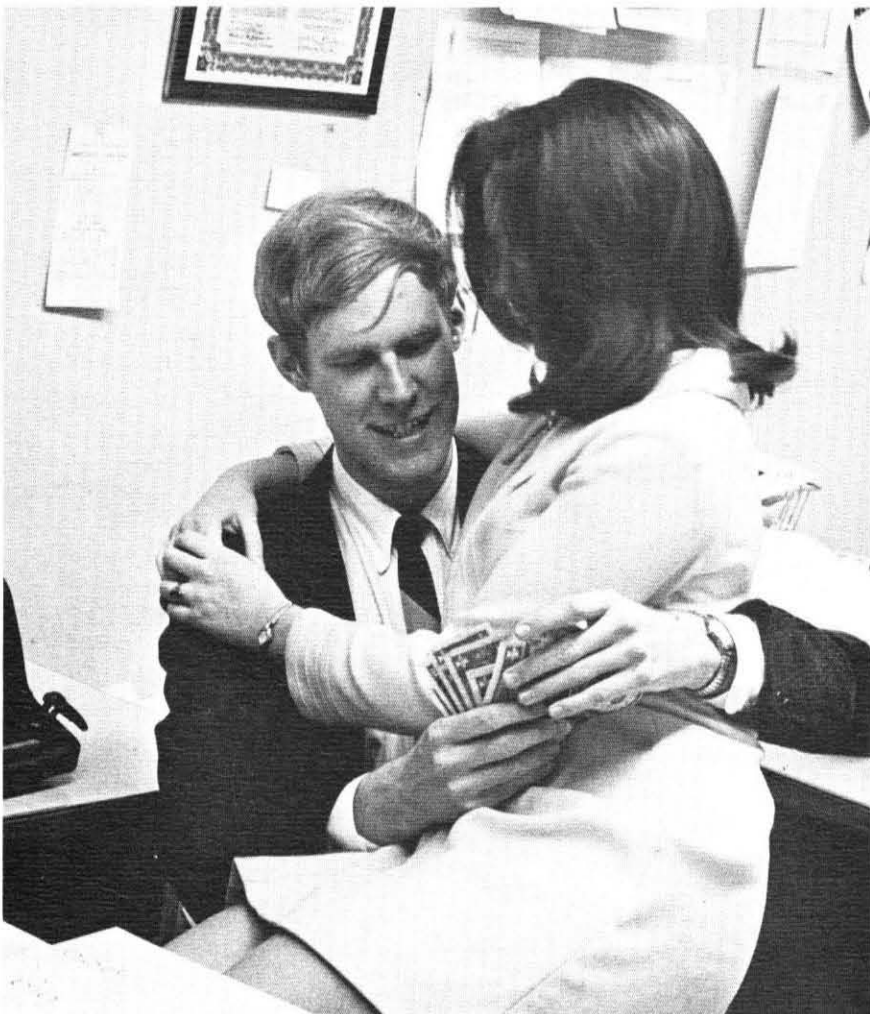
What walks on two legs in the morning, three in the afternoon, and seems to have a perpetual cast on its leg? A fearless **Tech** (Hoorah!) editor, of course; waging his never ending war against Truth, Justice, and the AMERICAN WAY. With his faithless sophomore companion, Kirk Benson, Les Fishbone (Class of '68, B.S. in Yellow Journalism) continually searched for a lost sled named "Rosebud." With no thanks to John Walters, Circulation Manager, the **Retch** weekly passed the post office censors and was mailed to those masochists who plunked down their hard earned farthings in order to flagellate their minds with rancid newsprint.

With the pleasant cry of "Dammit you guys, don't you ever do any work?" ringing in their ears, the ignoble staff would be off to write their weekly quota of totally useless and certainly inaccurate articles for the newspaper (the word is used very loosely). Interviewing men, women, faculty (what's a faculty, daddy?), dogs, cats, trees, fire hydrants and churches, and leaving no trashcan unexamined, the intrepid reporter would return to be greeted by those welcome words, "When are you guys ever going to learn how to write?"

Of course, there were benefits to working for the **Tech**, but somehow they all ended up in the pockets of John Middleditch (Class of '67 $\frac{2}{3}$; B.S. in conniving, chiseling, and umbrella twirling). In his never ending quest (which was ended by upstart Jef Hecht) for Shangri-La and front page advertisements, this business manager (affectionately known to the staff as SOB) would destroy anything that got in his way, news going first. "Damn the news, full speed ahead!" meant even more to him than it did to the editor.

Naturally, it was with great reluctance that the staff chose their candidates for the new editorship. So much





reluctance, in fact, that the resulting triumvirate consisted of one sophomore and two freshmen (the suckers!). No longer was the cry of "Dumb Frosh" heard ringing through the office, at least not more than once every few hours. In fact one rather unrepentant editor succeeded in introducing girls to the staff of the **Bletch** raising morale (but not morals) and blood pressure to a new high.

Although no one asked Nancy Grana, Con E. Staisey, and Helene Silverblatt (the morale raisers) for their opinions, the omniscient beak made it clear that, among the editors, Lewin would, Cooper wouldn't, and Stein would act as middleman (which actually meant that he did nothing).

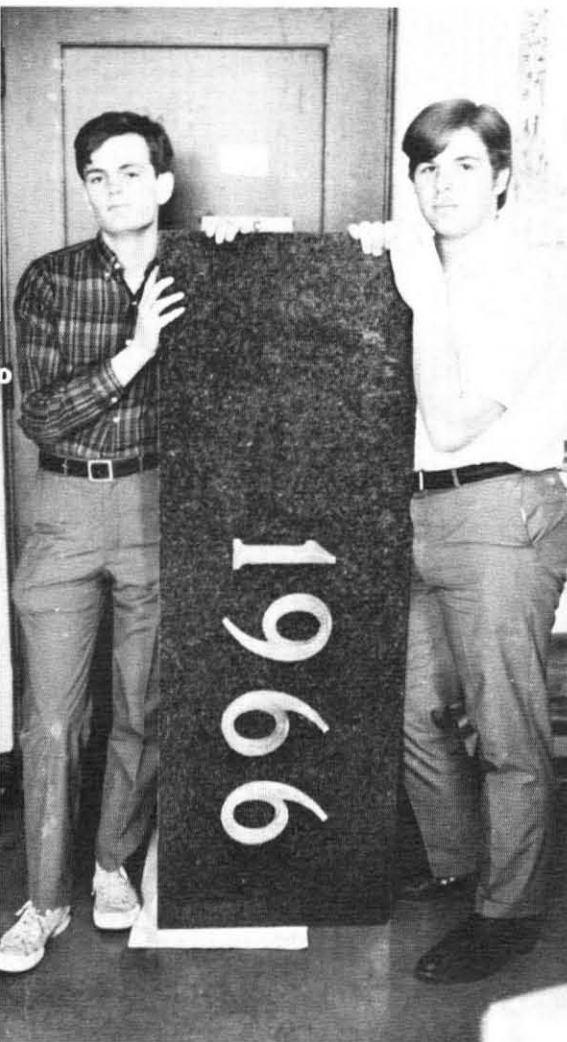
Bringing a myriad of joy to the editors with a myriad of late copy were the other members of that marvelous flock of liars which composed the **Dreck** staff. Included were Charlie (Greasy) Creasey and Dave (Drab) Dixon, past, present, and futile sports editors; Vince Johns, the sloppy copy editor; and Roger Goodman, the eternal non-editor. And, of course, we must all bless Tiny Tim.

TOTEM AND little t

Late last night we received this note about the **Little T**.

"The **Little T** future looked blacker than ever last year when three apocalyptic frosh seized power from their decamping predecessors, but it all turned out in the end, despite the evil machinations of such malefactors as Oxy, the **Big T**, and other assorted wrongdoers, as Editor-in-cheap James Henry cranked out a work of art on the mythical ASCIT press with non-existent funds and insufficient assistance from Copier-in-chief Ed Schroeder and Adman Kent Asmussen. Below the two semi-surviving editors hold a memorial donated to them for their notable services to Caltech by an appreciative administration."

As for the **Totem**, no word was heard except for the sight of a cover of the publication, which almost says enough in itself.



YMCA

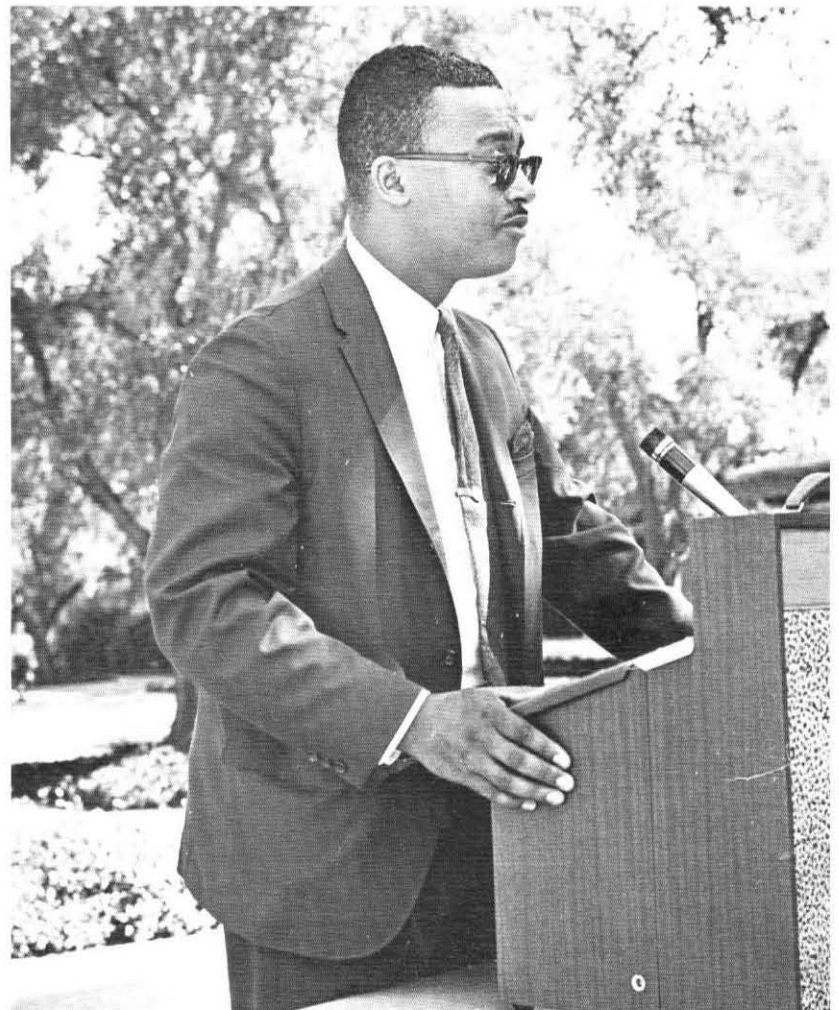
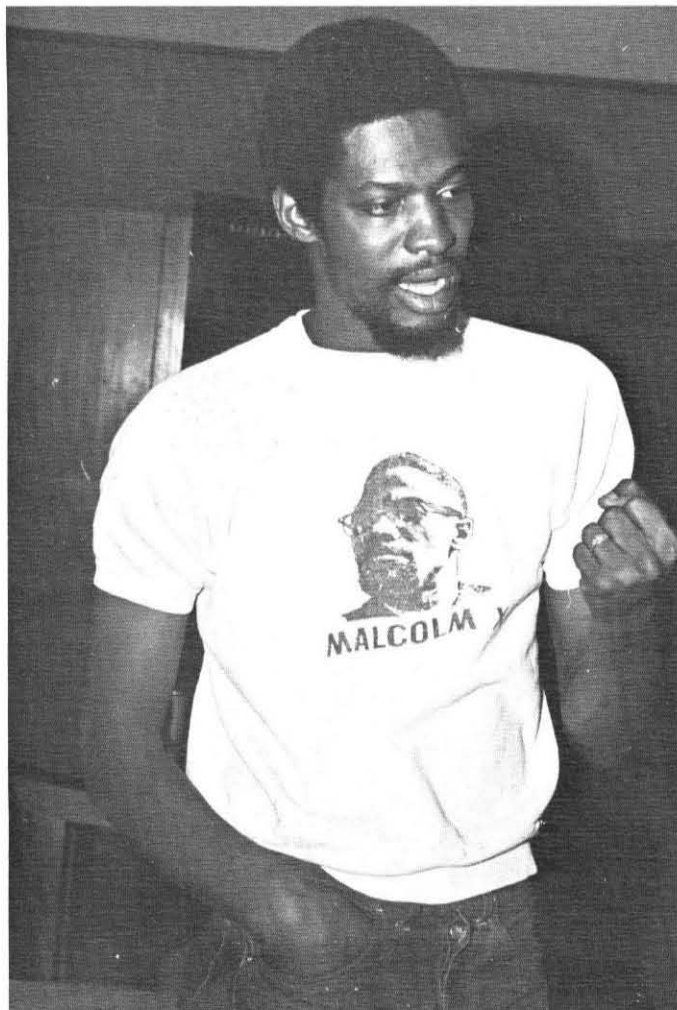
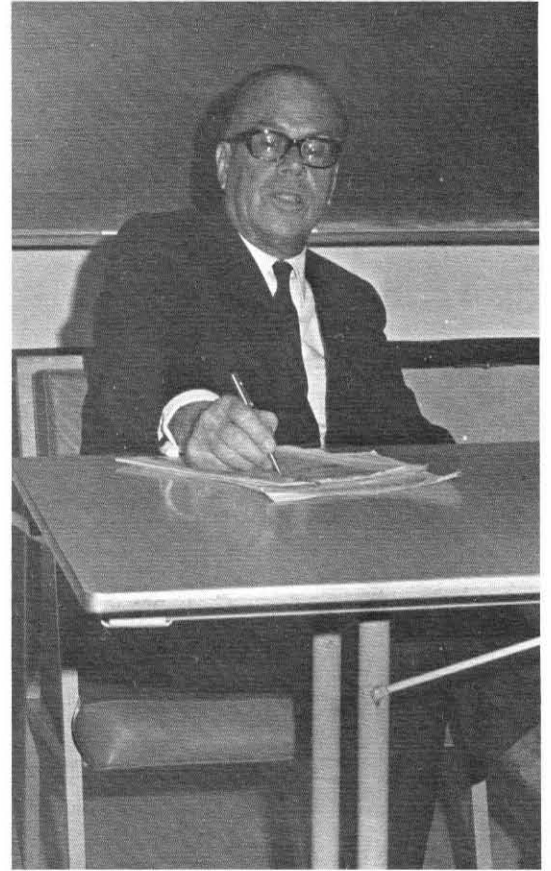
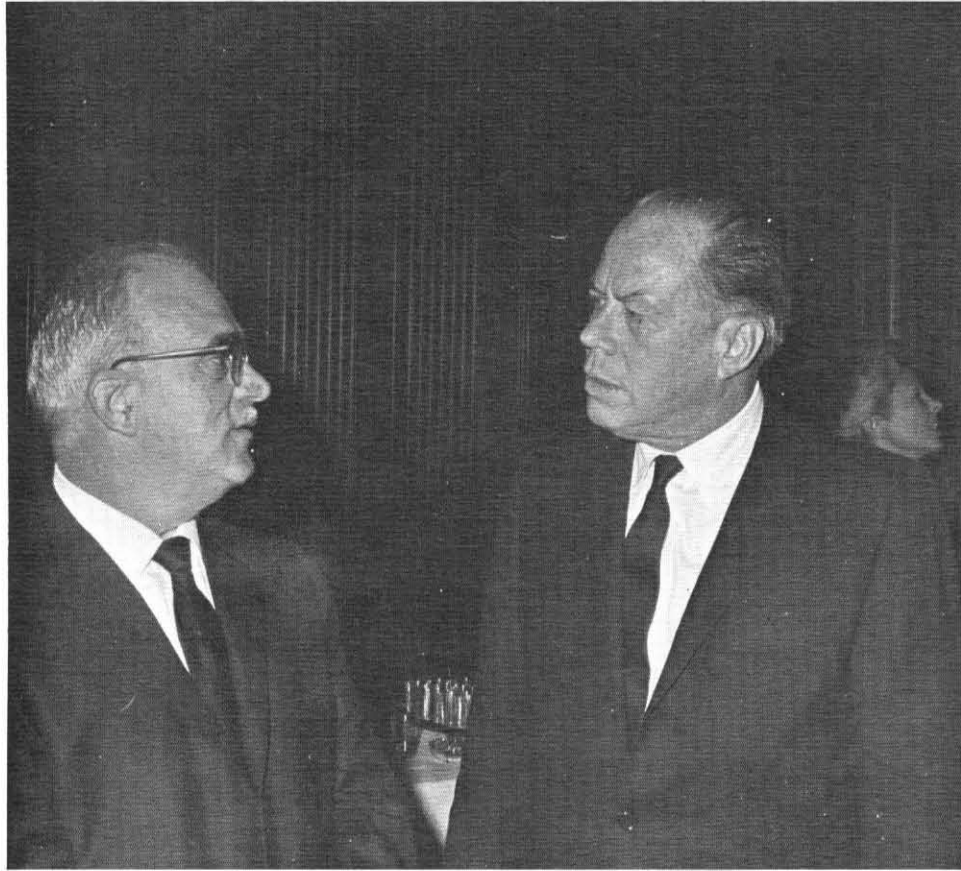


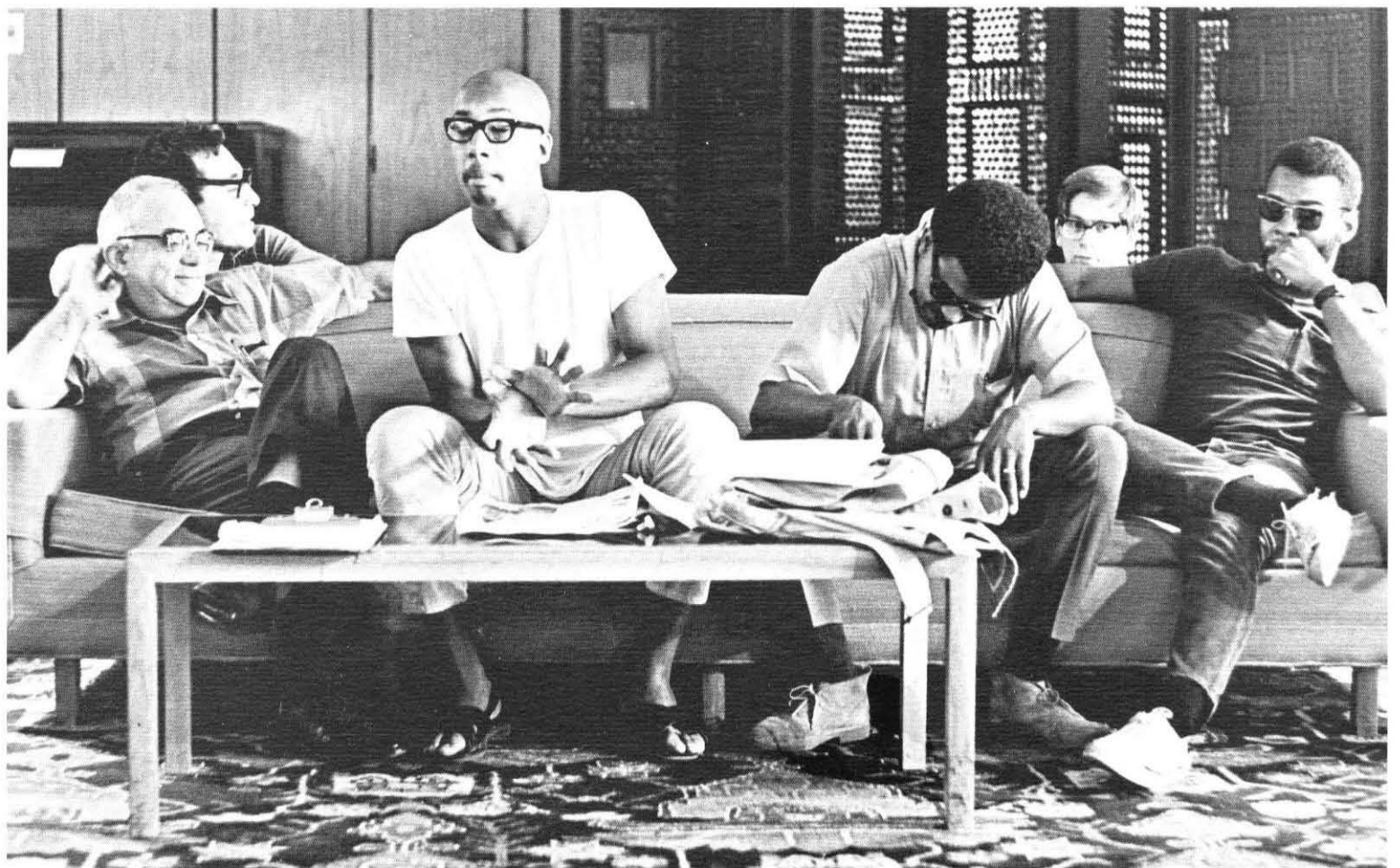
The Caltech Y has long been the most active group seeking to provide the students with a comprehensive picture of the world around us. Two important aspects of this program are the Walk-In seminars, like the one pictured above featuring Ed Bayne, AUFS expert on the Middle East, who also served on the control board for the PME games. The Y also brought many speakers to campus, including the Honorable Anthony Bielinson, State Senator from Beverly Hills and candidate for the Democratic nomination for U.S. Senator. The Y also conducted many Sensitivity Conferences, to the benefit of the entire student body. These programs were in addition to the major programs depicted on the following pages.

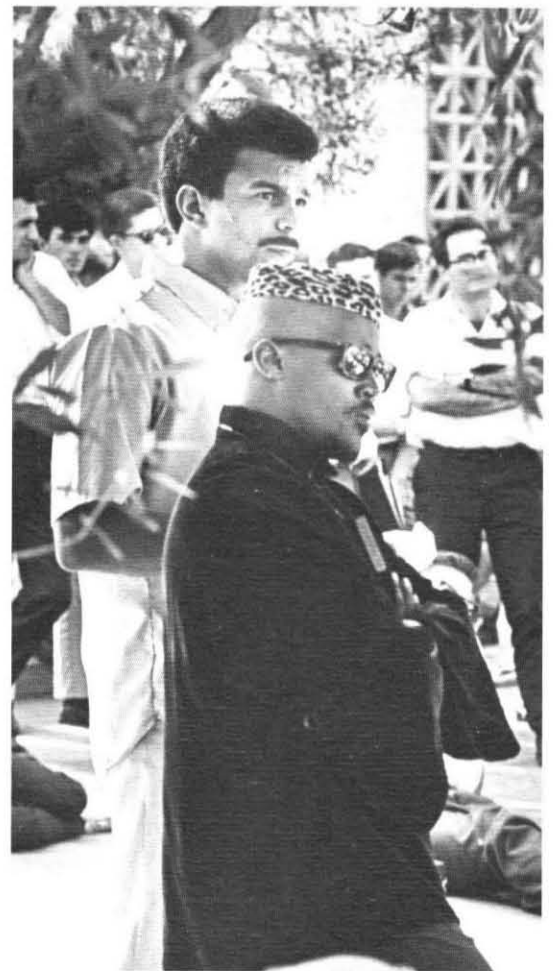
The entire Y staff is a boon to the campus, especially Burt Housman, who is leaving the Y to start his own Ghetto School next year. The entire campus thanks Burt for the great work he has done, and sincerely wishes him well on his new endeavor.



THE GHETTO AND THE CITY

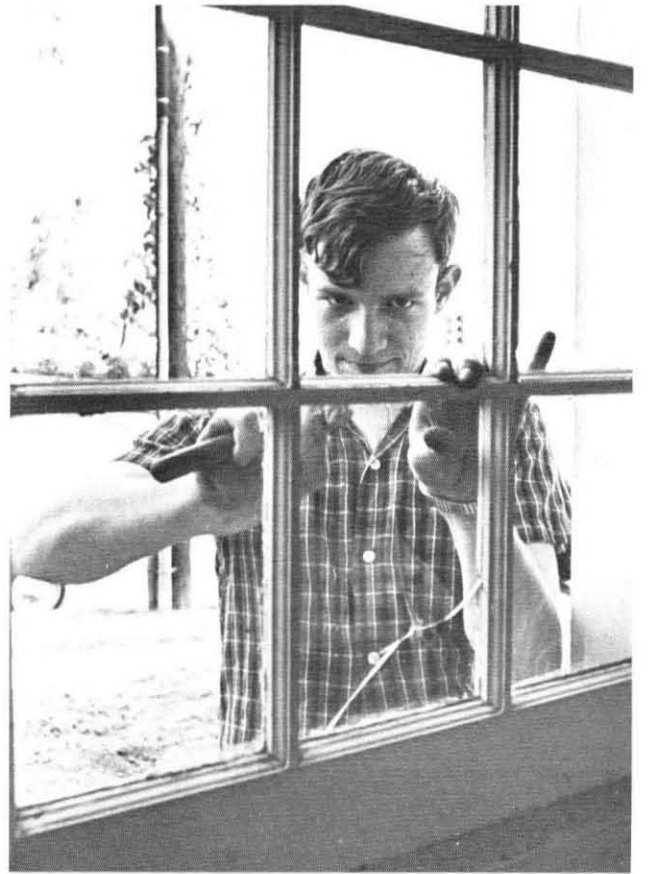
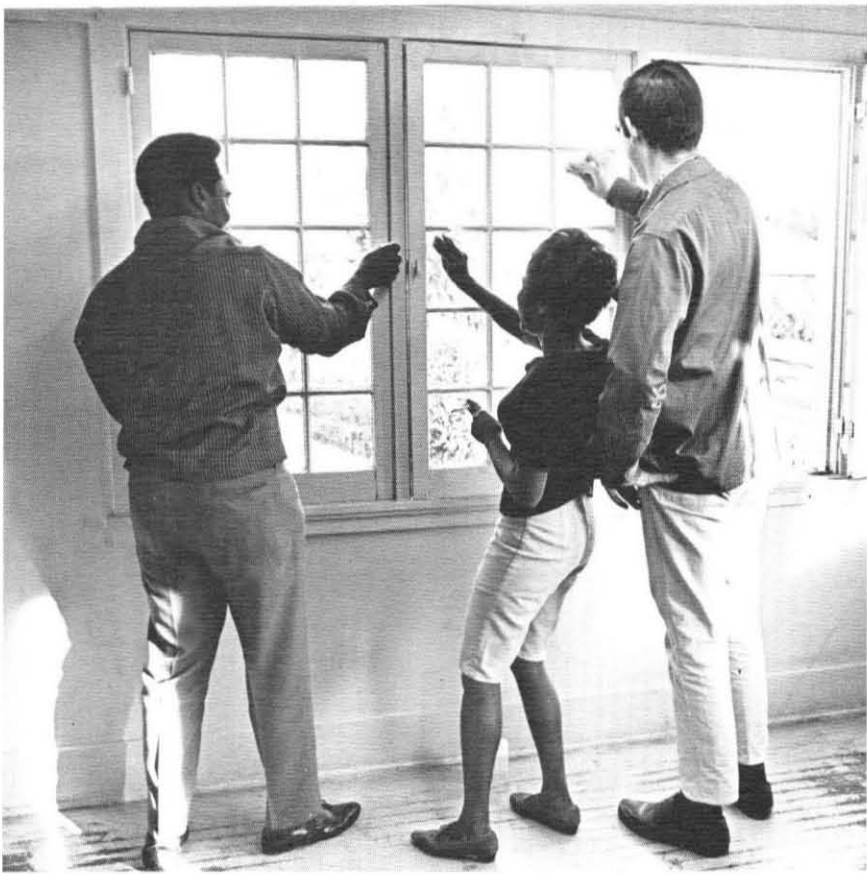




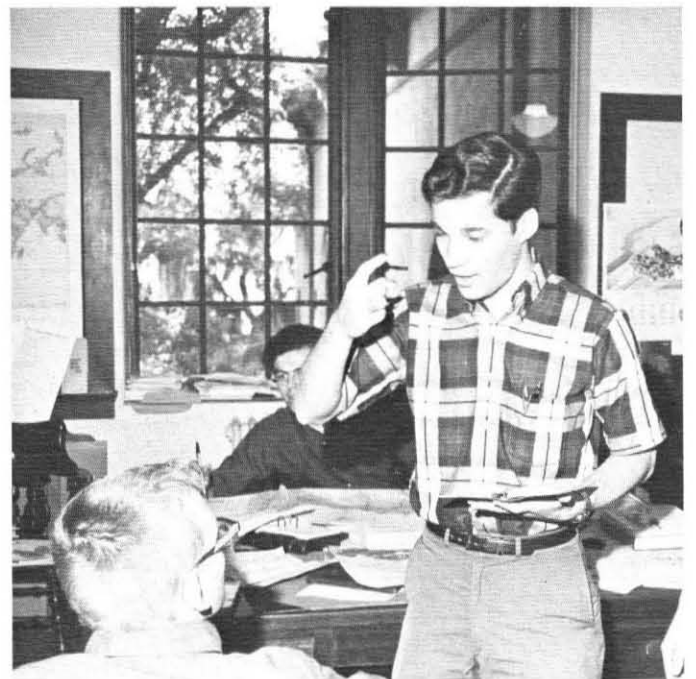


The major program of the YMCA this year was a study in depth of the problems of the ghetto and the city. In Phase 1 prominent speakers were brought to campus to air their views on civil rights and the problems facing their race as Negroes. Phase 2 brought militant young Negro activists to campus for a week to live and interact with the students. Finally Phase 3 saw Caltech students take off time to spend an extended weekend in Northwest Pasadena with Negro families, spending their time with them as they worked and played. The program was arranged to a large extent through the Westside Study Center. It was viewed with mixed feelings by its participants but certainly produced a greater understanding of another way of life.





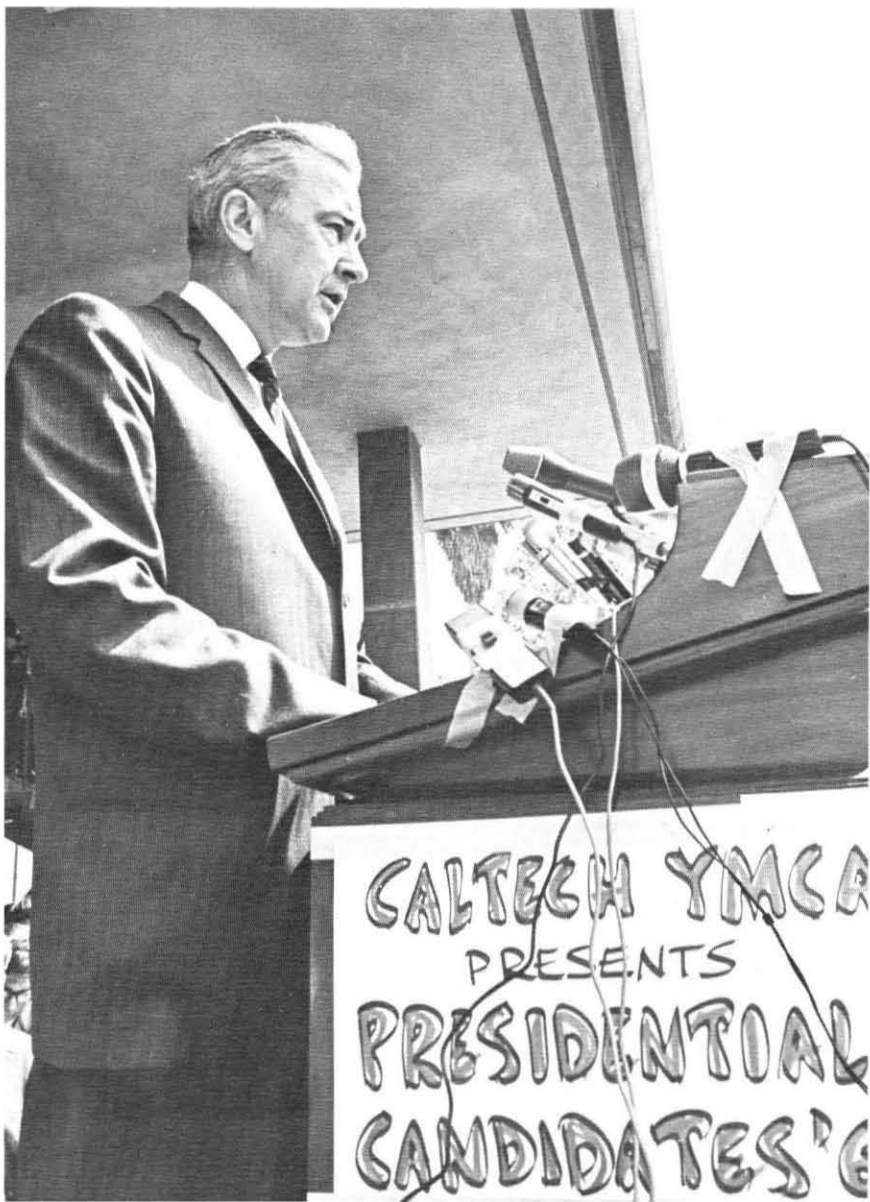
P - M E





This year's PME concentrated on the Middle East, for a change. The results were almost completely unexpected, as Israel did not get involved in a single war. The U.S. and Russia moved closer together, as the U.S., under President Robert Kennedy, took a distinct turn to the left. Joe Rhodes played the President, and is shown above with his advisors.

The greatest feat the Y pulled off this year was the appearance of Senator Eugene McCarthy on campus. Senator McCarthy was the only candidate to respond favorably to an attempt to get as many of the candidates to speak on campus as possible.



SCRIPPS CONFERENCE



The Caltech Scripps Conference at the Mount DeBenneville Pines Camp this year was an exercise in non-verbal communication in which participants were encouraged to interact with each other and cut through basic inhibitions. It was termed a success on all counts.

After the initial silverwareless meal, several sensitivity training exercises were tried out (e.g. walking with your eyes closed, mirror imaging in which two people represent two halves of one).

There were some UCLA art films this year and a panel discussion on the difficulties in communication between various walks of life at which Dr. Hammond of Caltech represented the scientist.

There were then a series of near charades in which body motions expressed emotion and feeling.



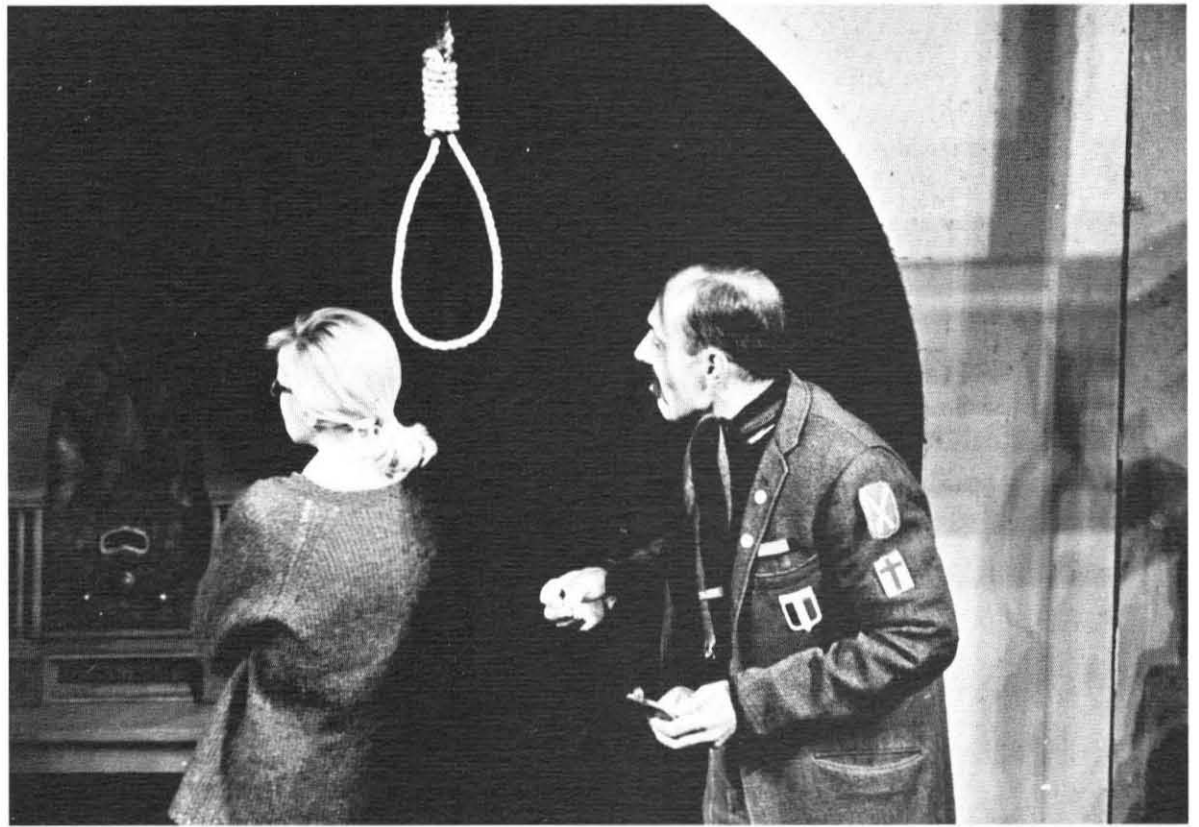


BECKMAN

Ever since Beckman auditorium was completed, it has been the center of cultural activity at Caltech. It is the host of the Monday night lectures, for the education of Pasadena, and many diverse types of musical concerts. Despite the lack of room, Beckman also is the setting of numerous plays and the ASCIT musical.

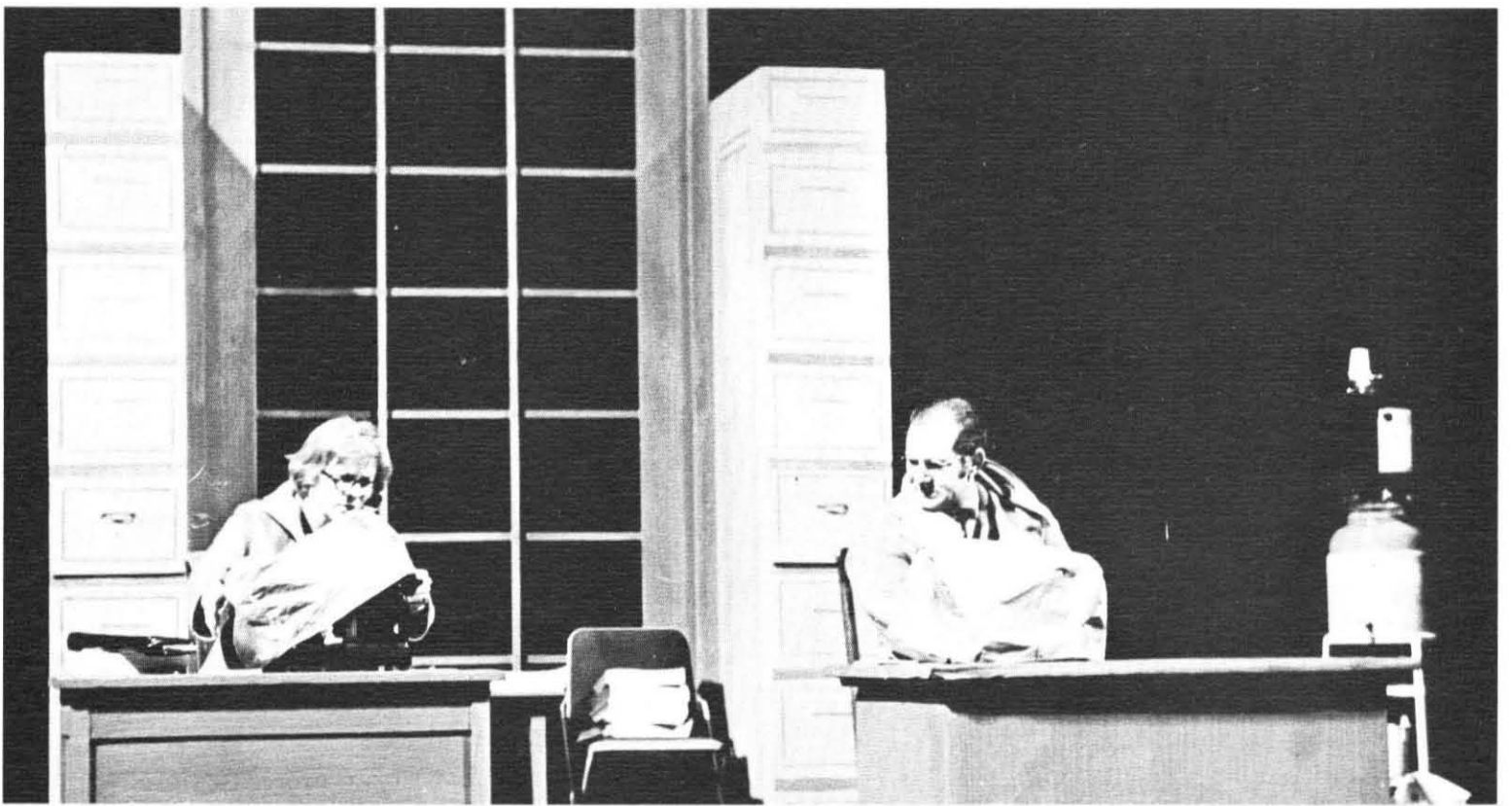






Beckman this year continued its program of culture for the Tech shut-in with very professional productions of "The Tiger" and "The Typist" (opposite page) and "Three Acts of Love" (right and above) along with "Oedipus Rex" and others.





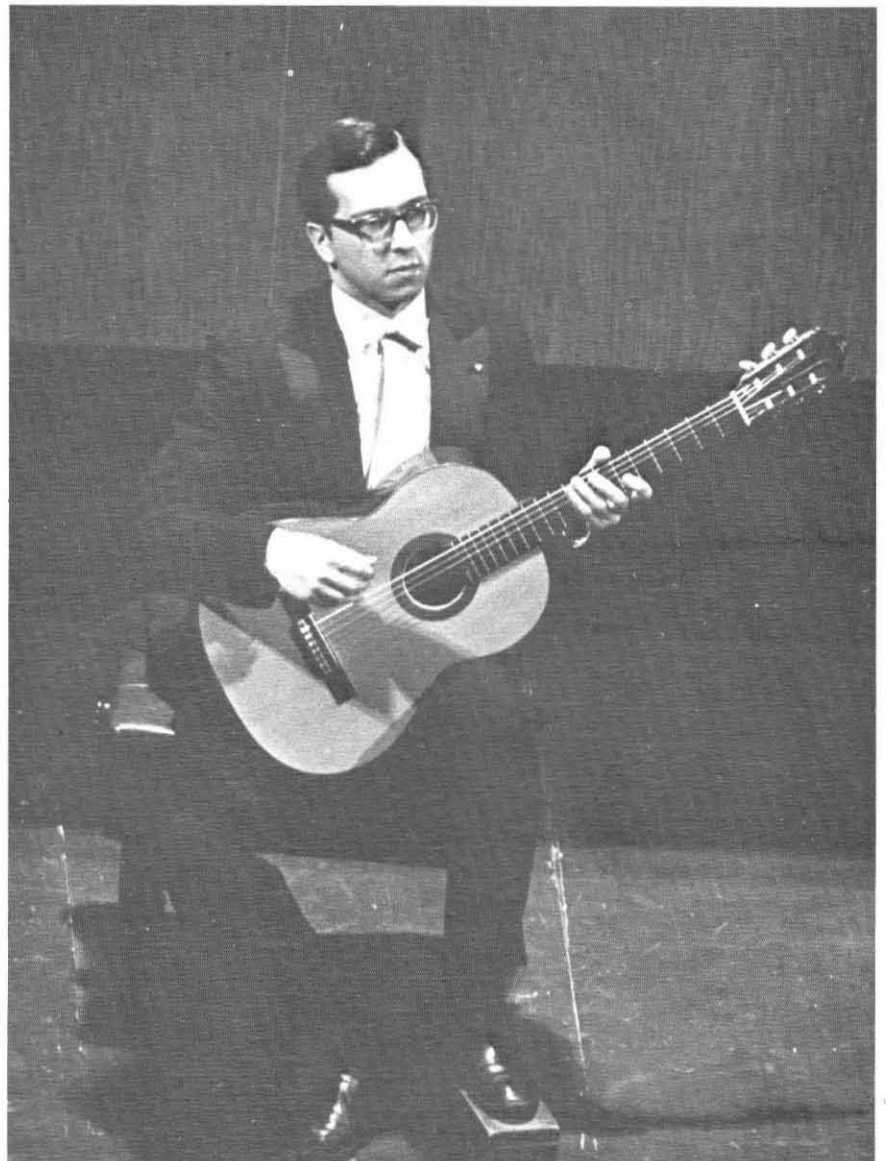
The Typist

The Tiger

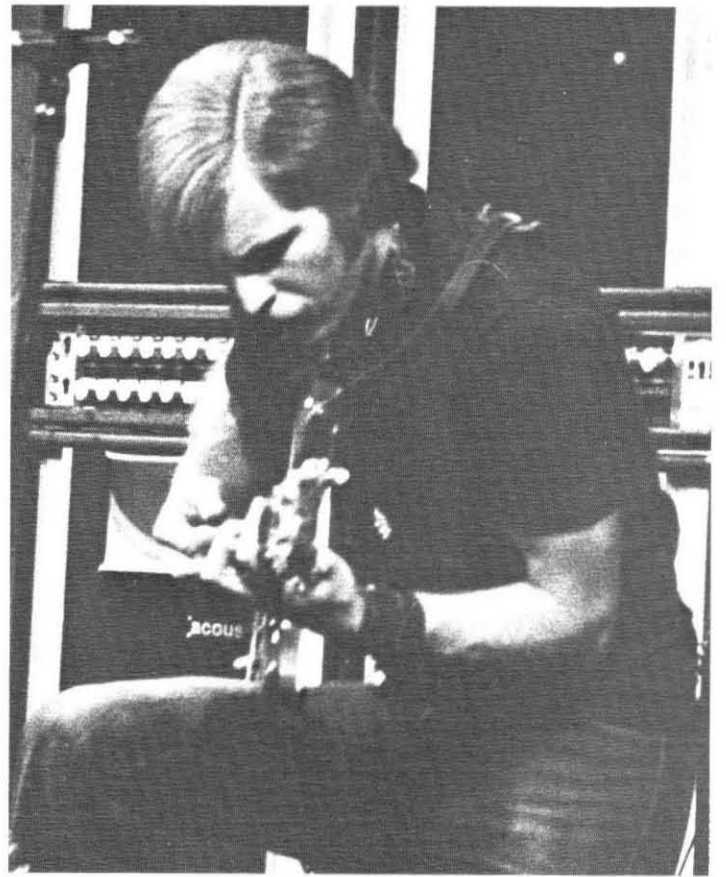




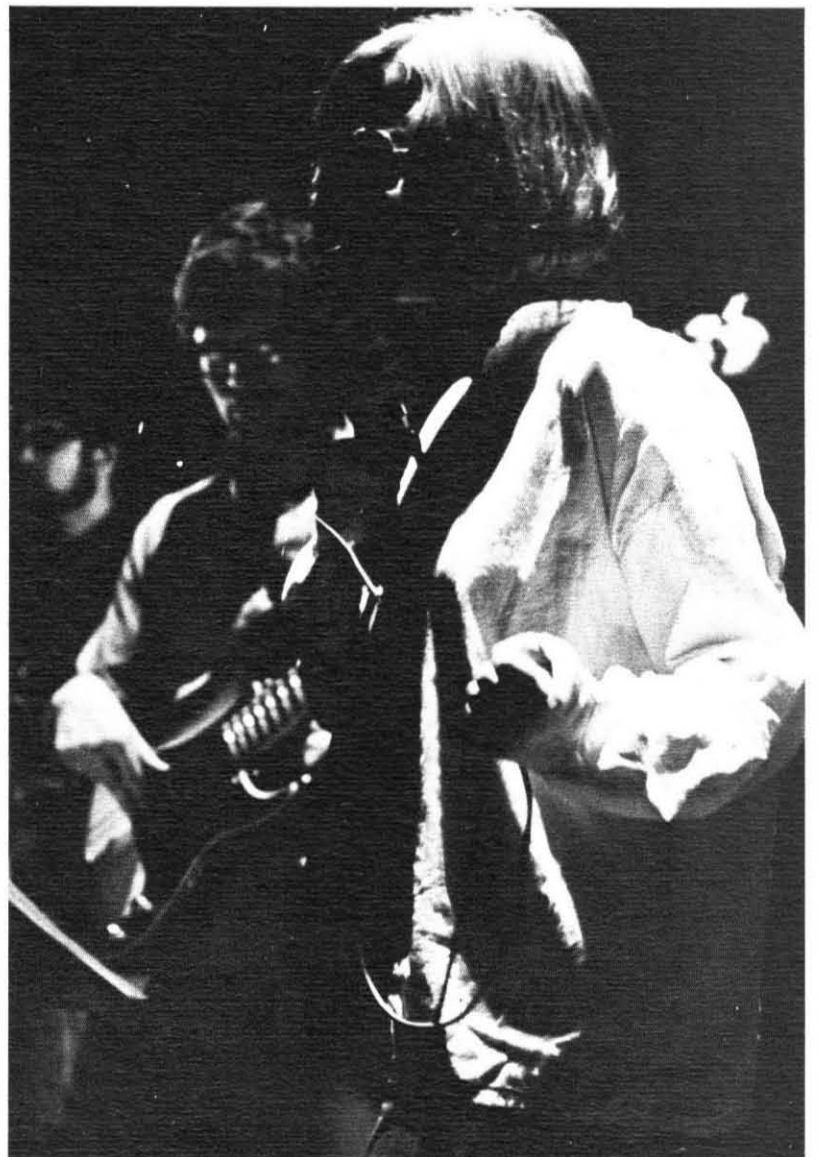
ASCIT sponsored a series of Jazz Concerts this year which brought some of the finest artists in the country. Typical was the Shelley Manne Concert above. Completing a full range of musical entertainment, Beckman brought the brilliant classical guitarist, John Williams (right) as well as S. Hurok's production of P. D. Q. Bach (opposite page).







Beckman also occasionally steps down from its pinnacle of culture to provide entertainment more in line with the students taste, this year featuring the United States of America rock band. And there is always the ASCIT musical to provide everyone with an exciting evening.



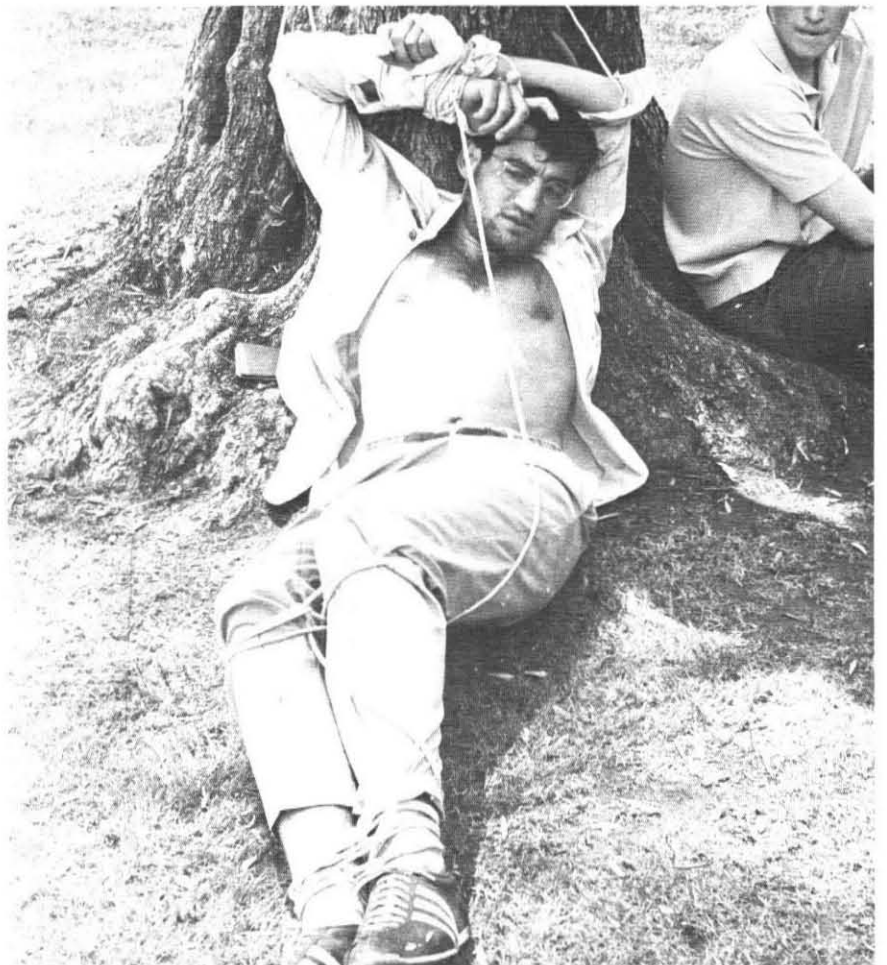


DITCHDAY

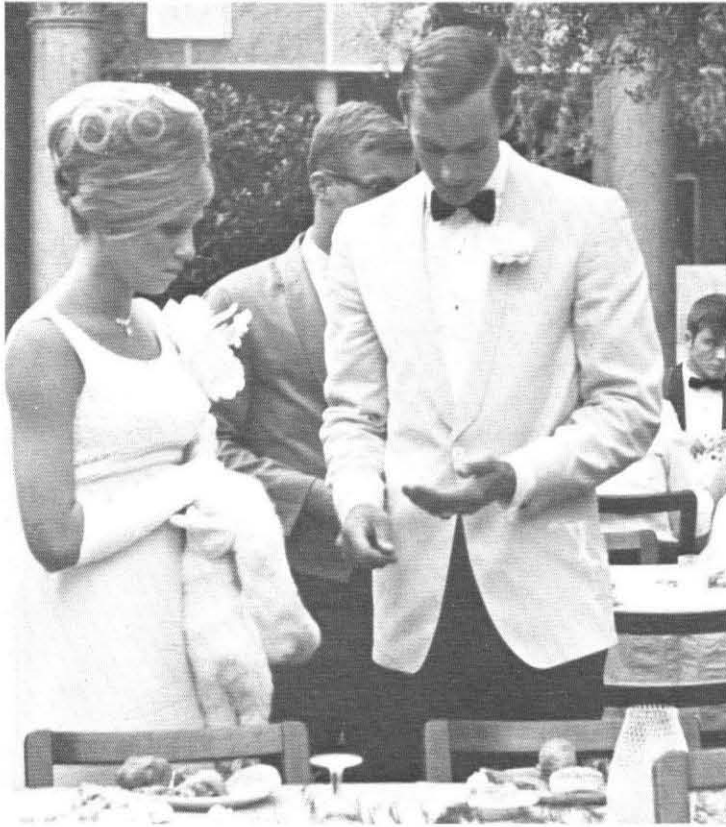


Senior Ditch Day dawned once again to see the class of '68 head for the pleasures of Santa Monica Beach. Apathy once again was rampant as only seven rooms on campus were stacked (two of them junior rooms), but clever devices were again the order of the day. The Fleming stack, requiring a radioactive isotope for entry was quickly overcome by brute force, as was Maiorana's stack in Ruddock (requiring a conducting solution to be poured past the conductivity probe angled in the drain of the room below), and three of the rooms in Page. As usual there were winners on both sides. In Ruddock, Gordon's stack (which used magnetic reeds, relays, a solenoid, and a mercury switch all of which had to be activated simultaneously) and Brandon's (which used a radio-relay-solenoid which picked up static from nearby fluorescent light fixtures which had to be turned off for the door to open) were never conquered, and in Page Jim Burns stumped the underclassmen with a lock-picking challenge. Losers found sculpture or tuna fish or nothing at all (including furniture) when they returned. And two seniors were so blatant in their appearance on campus as to be traditionally punished by being tied to a tree.

Hapless senior feels the wrath of a not totally apathetic underclassman.



LOST WEEKEND



Lost Weekend this year was attended by more than 75 Teckers and their dates at one time or another for the special functions. It began with the formal dinner served on the lawn between Fleming and Ricketts and served by a surprisingly mild-mannered crew of waiters. After dinner there was dancing at the Sierra Room of the Statler Hilton, followed by a night of leisure for the female guests in the second floor of Lloyd. Though Saturday dawned cold and windy, undaunted the couples took the traditional ocean voyage to Catalina, and the day was generally enjoyed by everyone. Everyone that is except the hapless Tecker who was inadvertently left on Catalina with his date for the night. The girls again joined their dates on Sunday morning for Brunch in Manning's Cafeteria, and Lost Weekend, 1968, drew to a pleasant close.





Alumni scholars: Larry Shirley, Steven Bankes, David Shirley, James Richards.

ALUMNI

Every person who graduates from Caltech is eligible to join the Alumni Association. This group is an important source of funds for the Institute, and part of the funds come directly to the undergraduates. Part of this is in funds provided for the ASCIT Alumni Assembly Series, held on Wednesdays at 11. These programs vary from speeches to movies to concerts, all under the direction of the ASCIT Assemblies Chairman. The Association also helps underwrite the cost of Interhouse Dance.

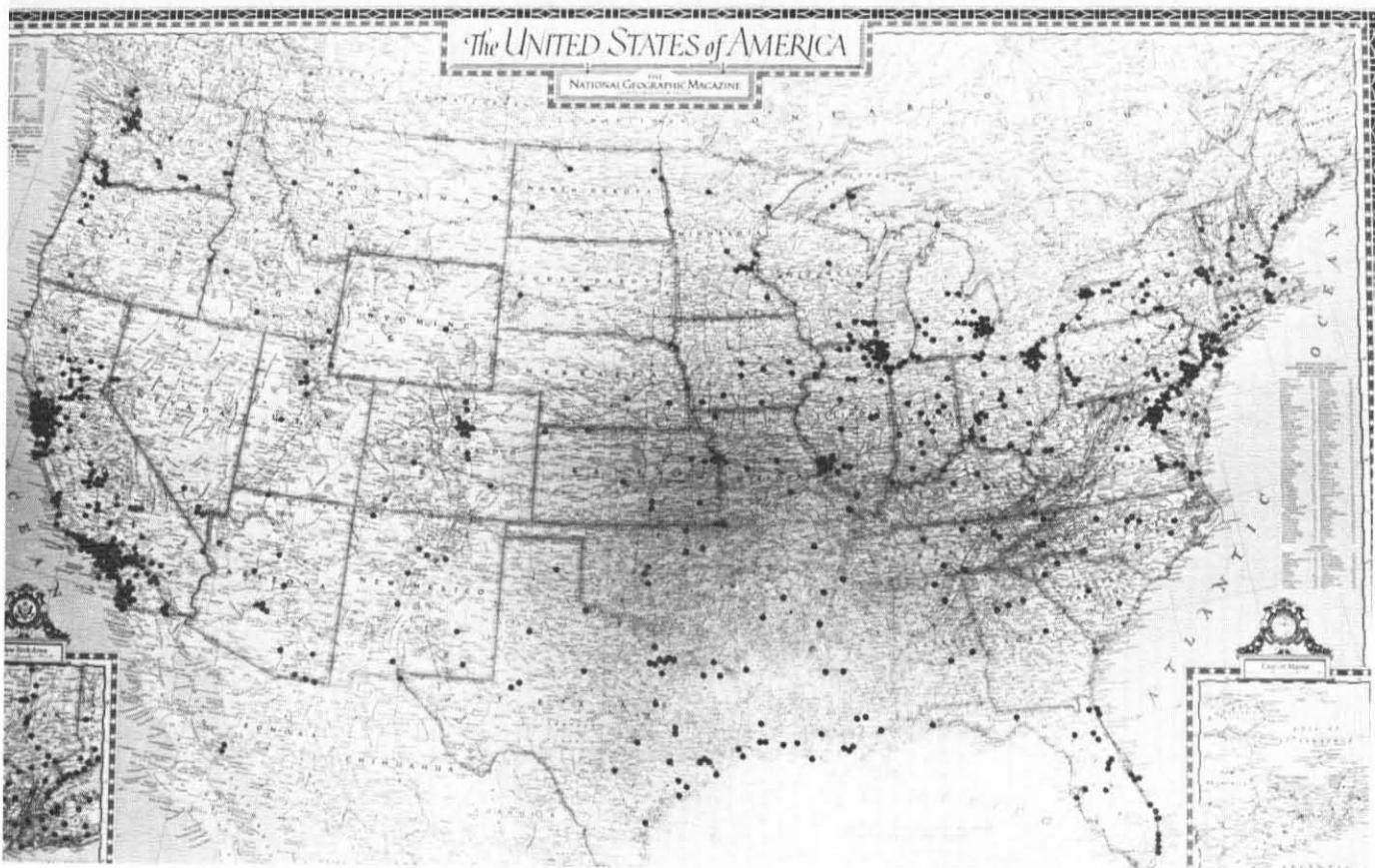
There are also four Alumni Scholars, holding four year, full tuition scholarships provided by the income of an endowment fund established a few years ago. Newly established last year is an award given in honor of D. S. Clark, Secretary of the Association, for students, preferably in the engineering option, who have demonstrated a potential for leadership.

The Association also solicits its members for contributions to Institute projects. The first big result of the contributions is the Alumni Swimming Pool, built in 1954.

Engineering and Science Magazine is published by the Alumni Association, with the aid of the Institute. Edited by Ed Hutchings, it helps to keep the Alumni informed of activities at Tech, and is also used as a public relations media for the Institute. A subscription is included in the dues charged members of the Association.

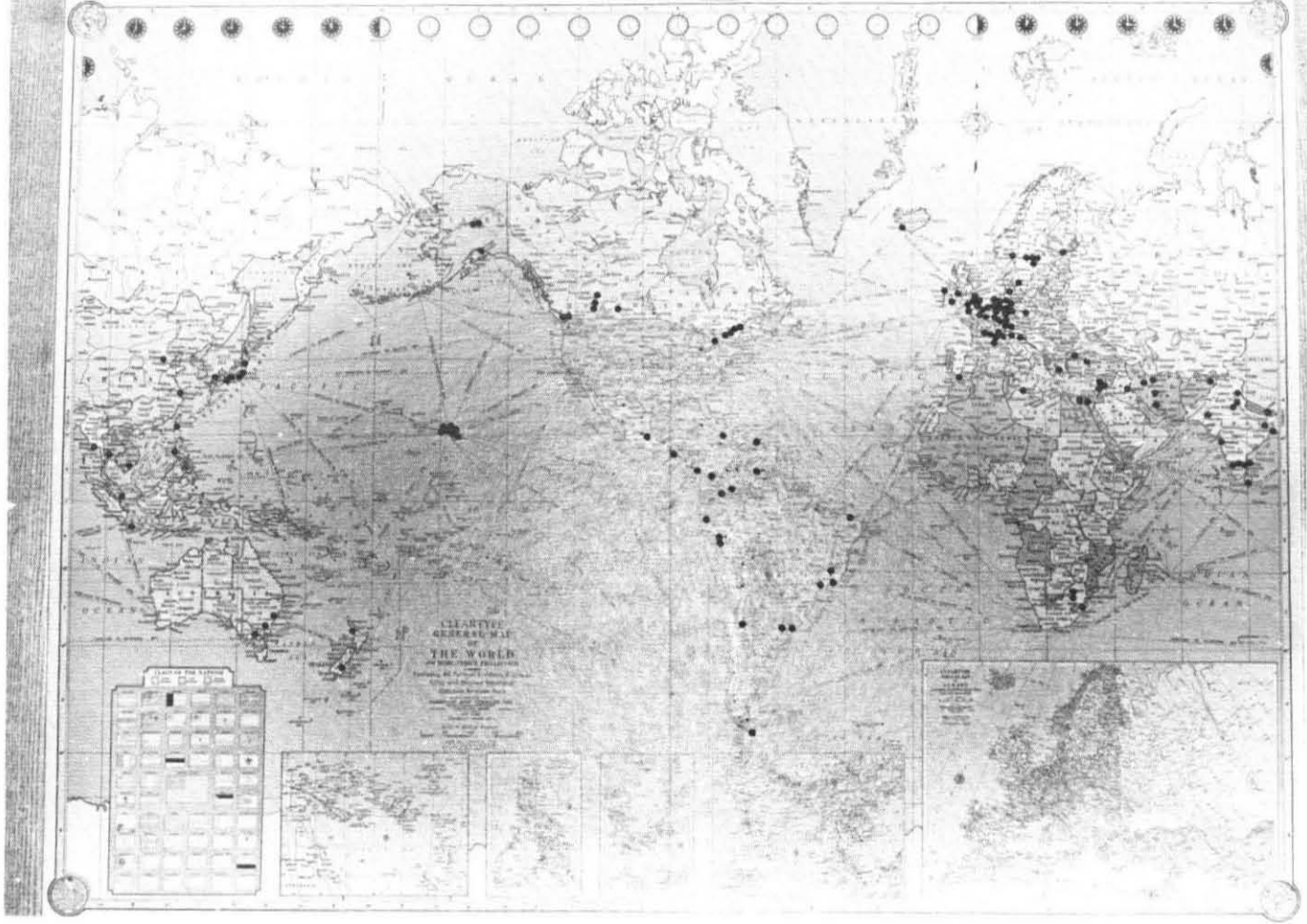
LOCATION OF ALUMNI IN U.S.A.

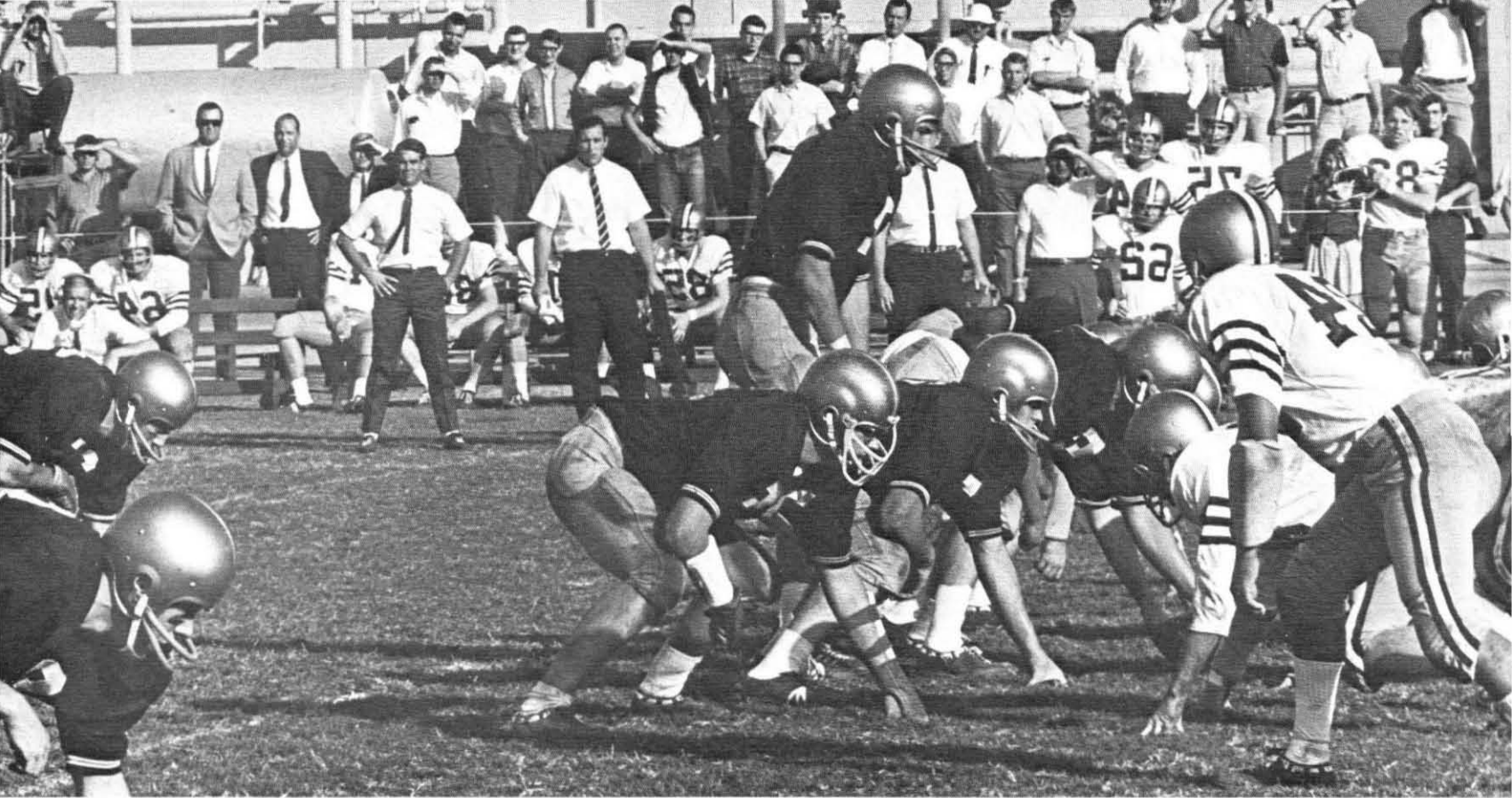
• SHOWS INDICATED LOCATION OF AT LEAST ONE ALUMNI •



LOCATION OF ALUMNI IN THE WORLD

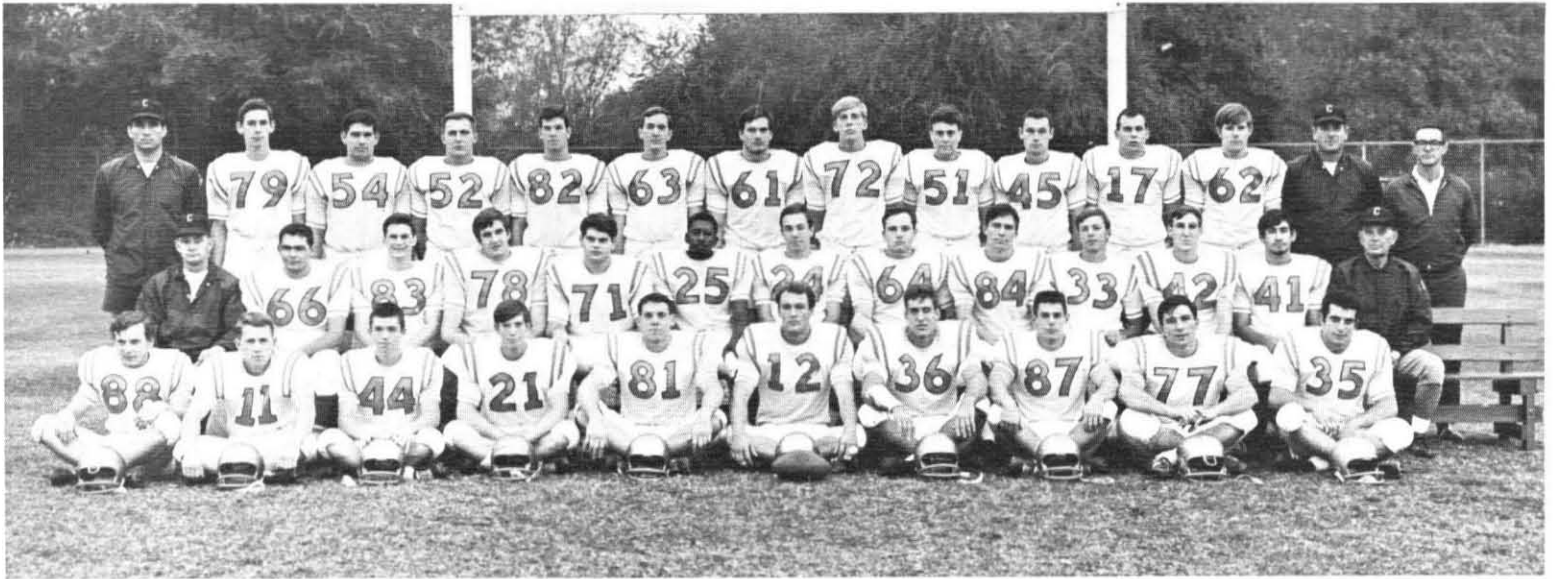
• SHOWS INDICATED LOCATION OF AT LEAST ONE ALUMNI •







SPORTS

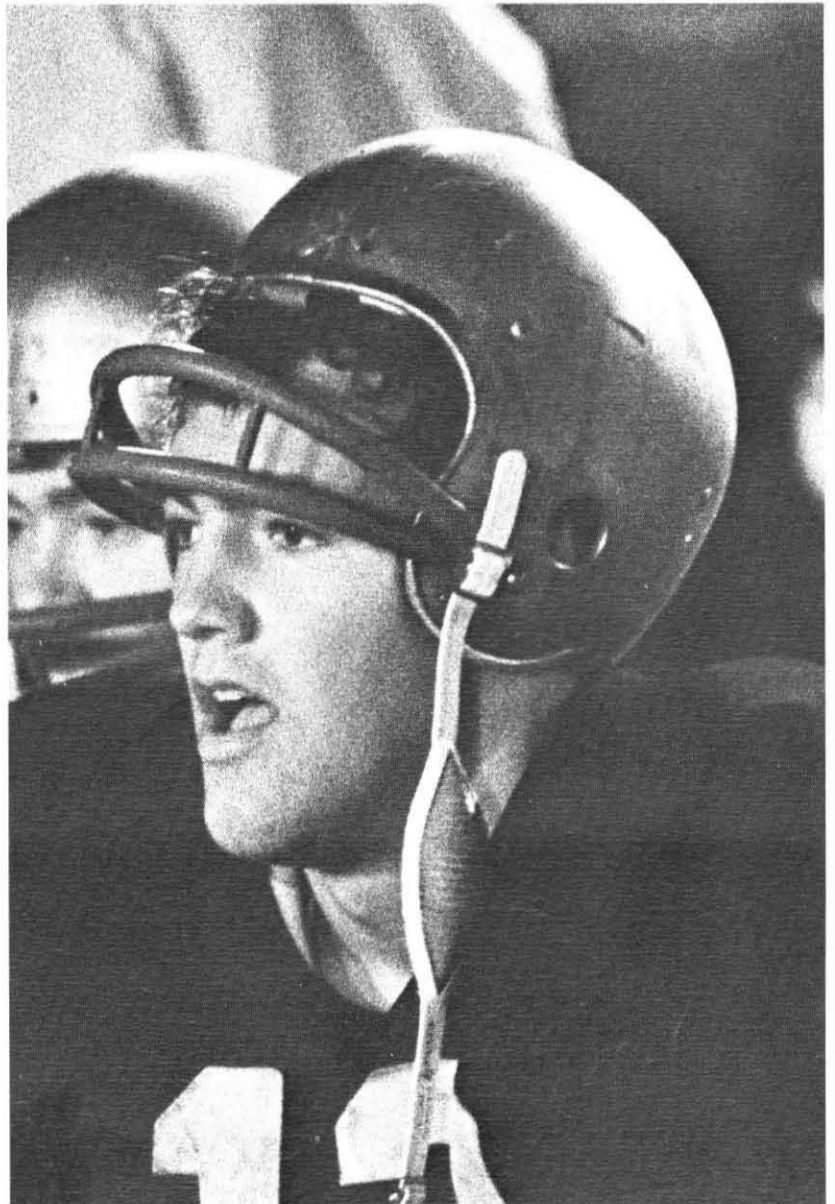


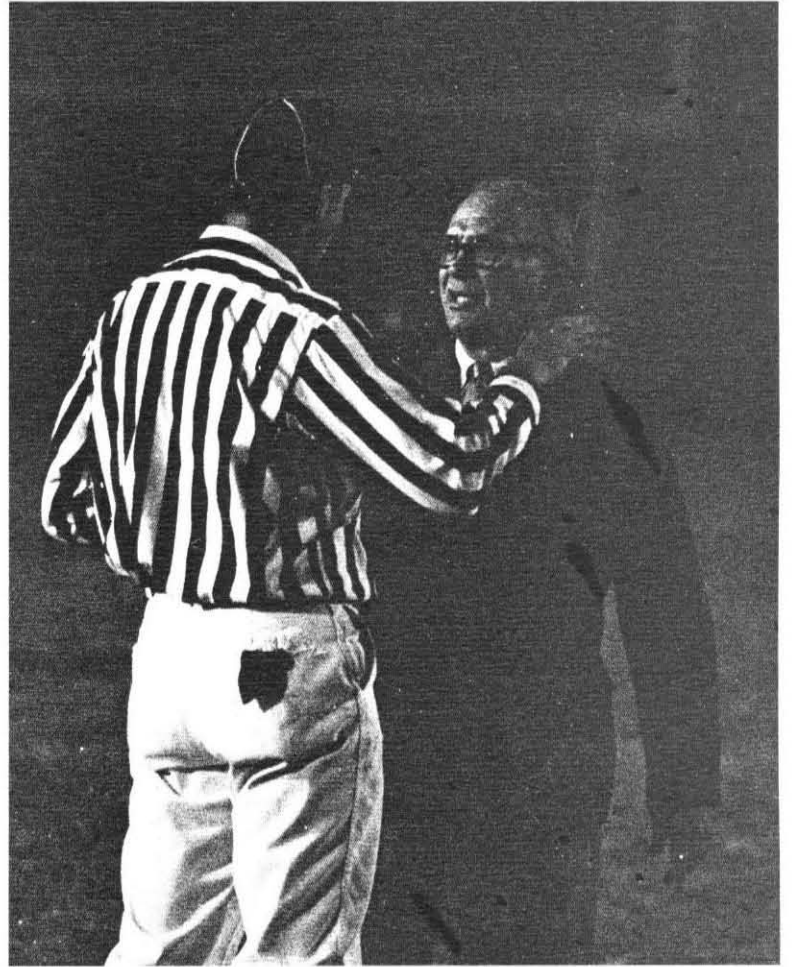
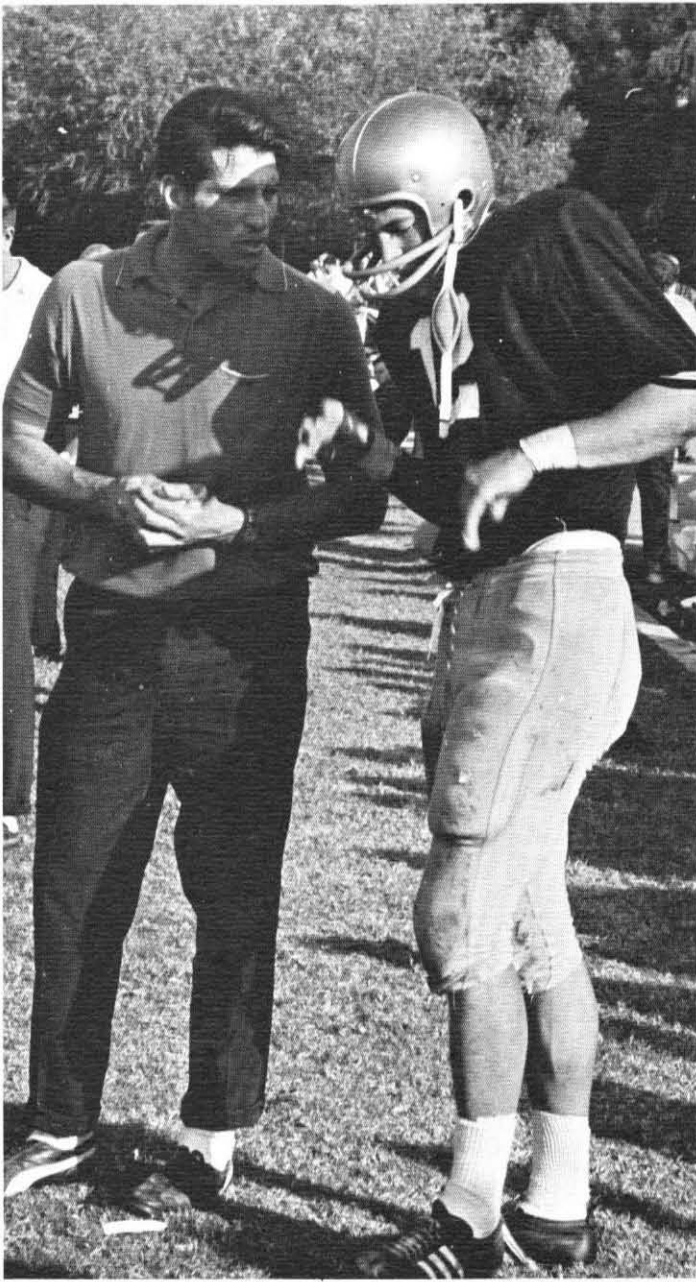
First Row: J. McNair, D. Wood, J. Staples, B. Fitzgerald, L. Martin, T. Burton, J. Frazzini, D. Harley, A. Beagle, R. Kawał. Second Row: Coach Bond, R. Alley, P. Dressendorfer, T. Baschko, R. Halsted, C. Creasy, M. Gerard, J. Devinney, D. Thornberry, T. Bicknell, S. Sanda, P. Studenski, Coach LaBrucherrie. Third Row: Coach Gutman, R. Jensen, D. Pecekay, E. Vergin, B. Nichols, W. Waggy, G. Adamson, G. Koenig, J. Sicherman, E. Jensen, M. McDonalds, D. Dixon, Coach Bastion, Trainer Barthel.

FOOTBALL

1967 was a year of growth and learning for Caltech's varsity football team. The Beavers finished an eight game schedule without a victory. Their play during the first half of the season left much to be desired, but by mid-season the defense had jelled into a solid and capable unit while the offense had mustered a respectable striking power. The last three contests could have gone either way—unfortunately for Tech, they went to the opponents.

Coaches LaBrucherrie, Gutman, Bond, and Bastion deserve credit for molding this young group, mostly freshmen and sophomores, of Techers into a well-knit, well-disciplined, and relatively talented ball club. The prospects for 1968 are far from dim, success is certainly within reach. And even if 1968 is another winless year, there are a few people here who still believe that, "It's not whether you win or lose, but how you play the game." The next time you doubt it, remember the Caltech football team. It takes real character to lose twenty-nine consecutive games and still come back for more.





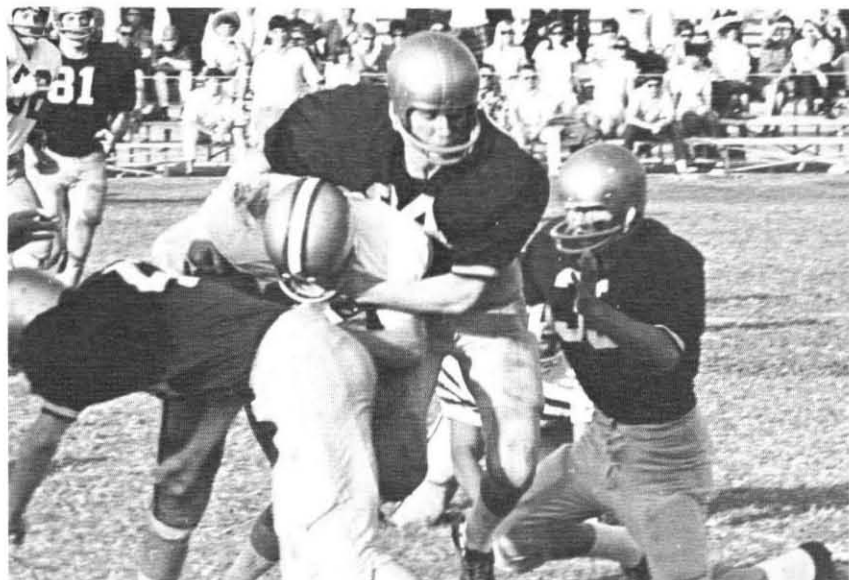
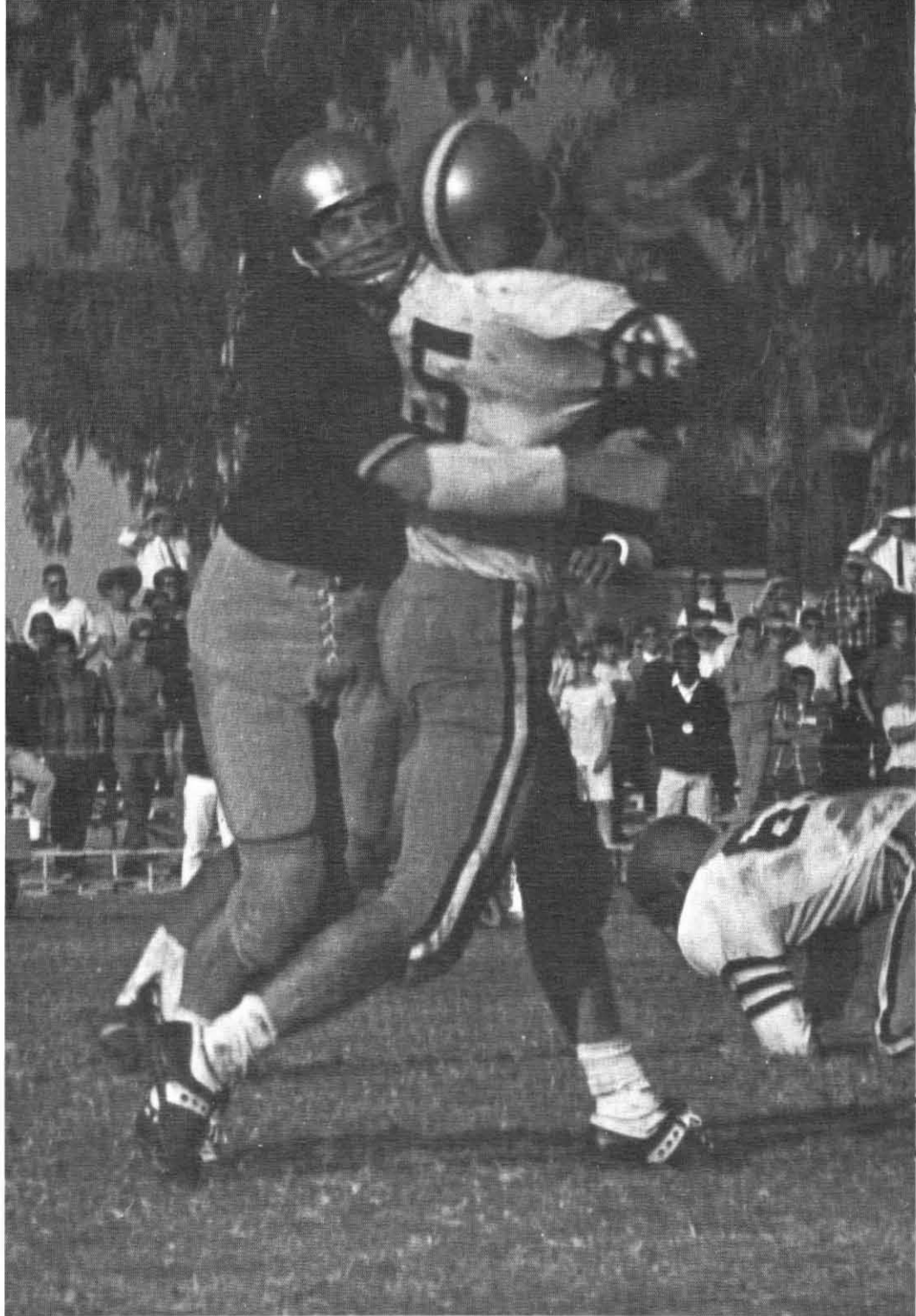
Much interest was focused toward the sidelines.

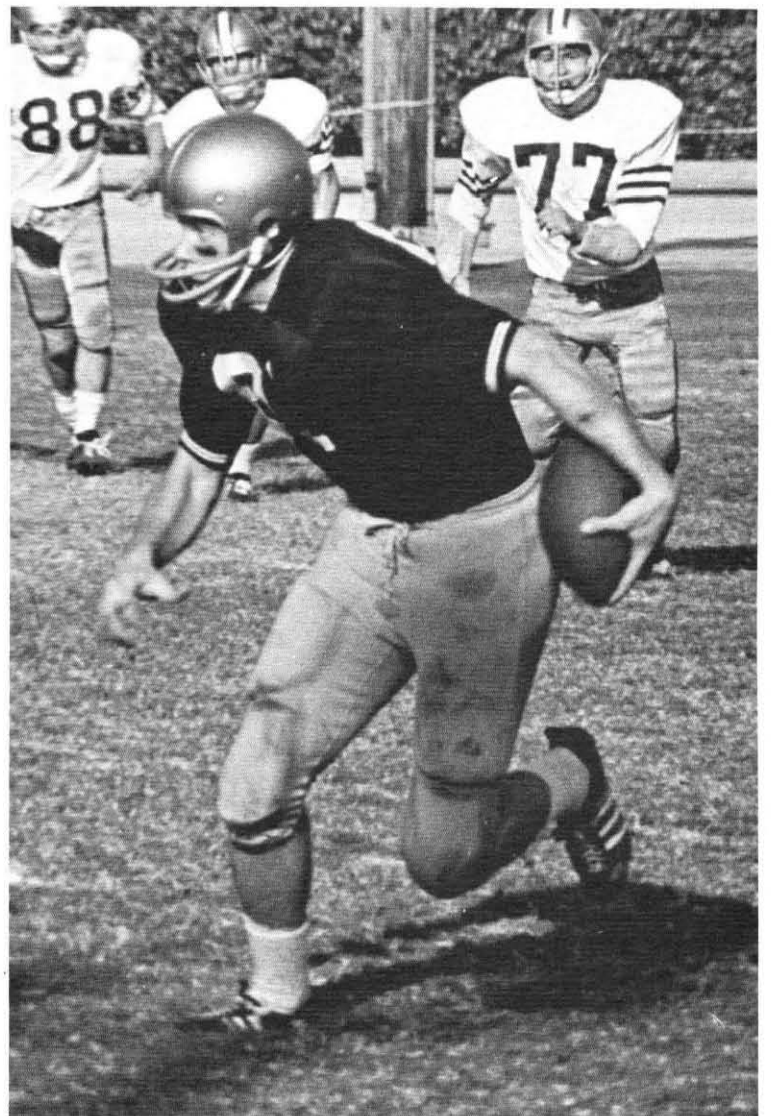




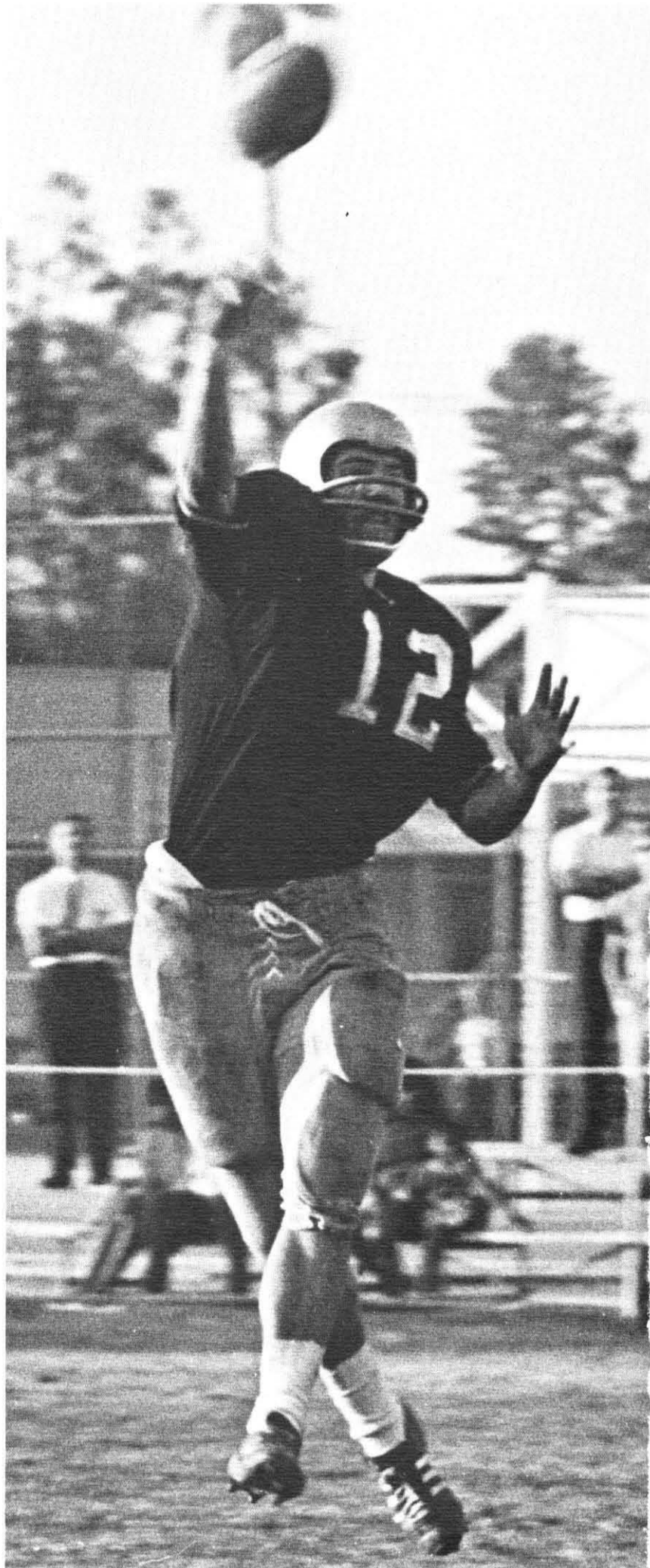
SEASON'S RESULTS:

Caltech		Opp.
0	Azusa-Pacific	26
7	Occidental	54
29	Pomona	74
0	Cal Lutheran	55
7	La Verne	34
14	UC Riverside	28
7	Loyola	20
12	Claremont-Mudd	27





Martin makes the grab and heads down field for a good gain.





Occasionally . . .



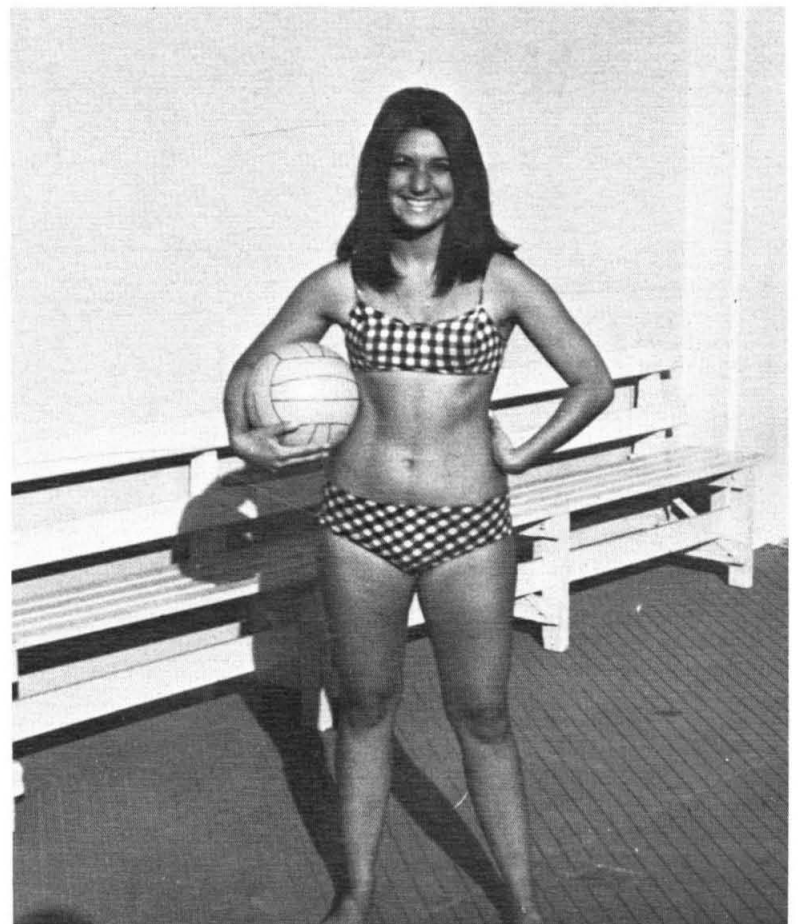


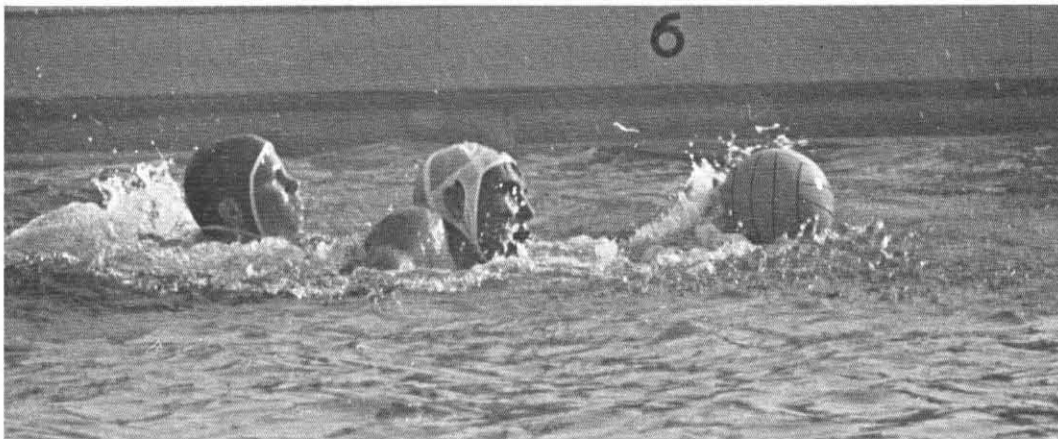
First Row: B. Hall, C. Fisher, N. Whiteley, J. Haviland, H. DeWitt, G. Brown. Second Row: M. Noble M. Tyson, L. Hunt, L. Watkins, R. Lohman, T. Davis, Coach Reck. Third Row: B. Britton, Mgr., K. Hanson, L. Young, I. Kling, G. Wright, M. Bell, M. Stefanko, J. Cooper, Mgr.

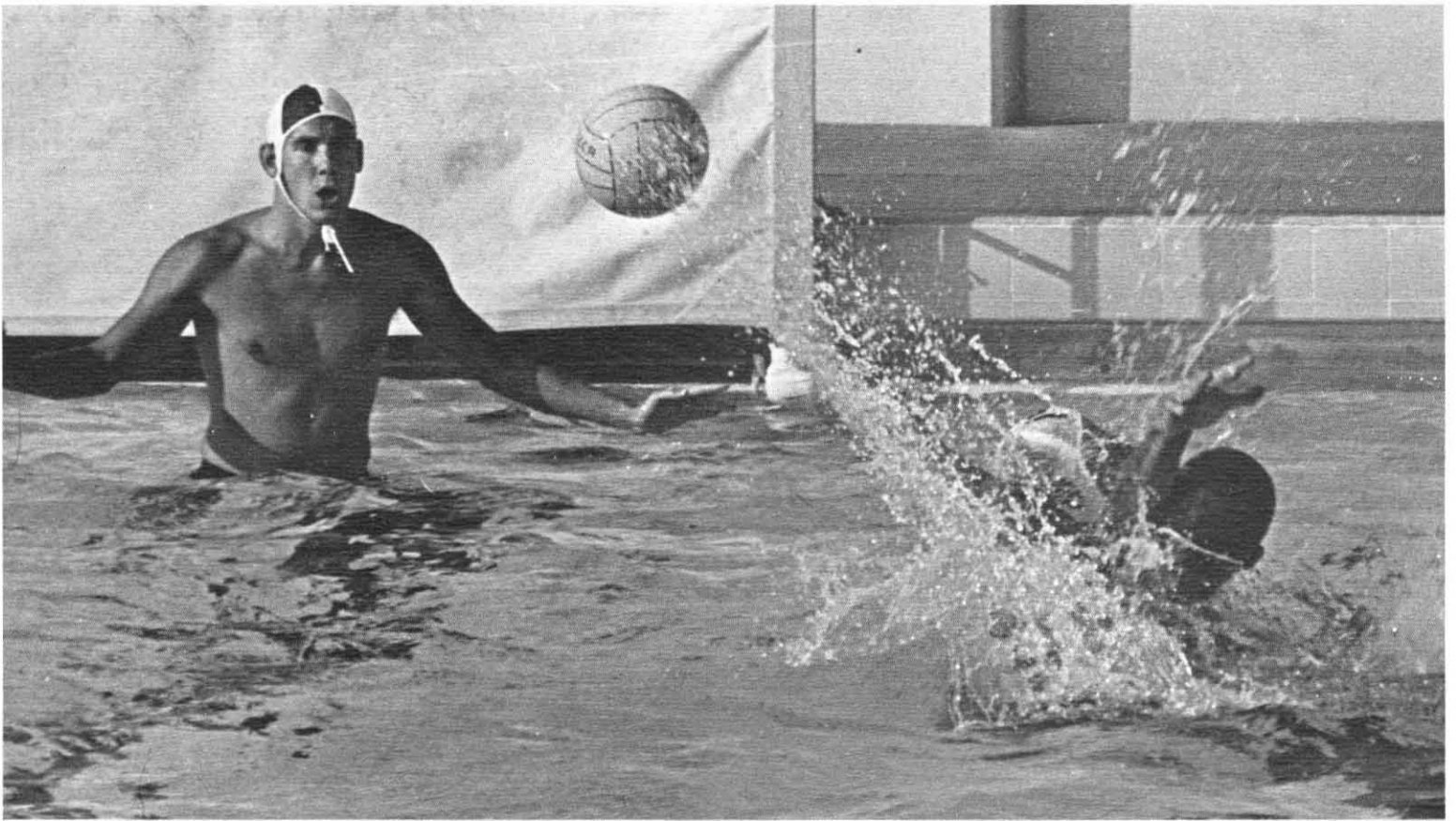
WATER POLO

The year started with bright promises as Caltech fielded a water polo team that, except for one man had started all of the previous year, while the rest of the league had lost most of their stars. But as the season progressed, the lack of a good scoring threat handicapped an excellent defensive team. Finally at the end of the season the team got going, holding league champions Pomona to a 4 to 2 victory and going on to beat Redlands and Occidental to end the season with a two game winning streak, the longest in over two years.

With the loss of Senior co-captains, Henry DeWitt, Jon Haviland, and Norm Whiteley, the team must look toward reserves and freshmen to build a team for next year.



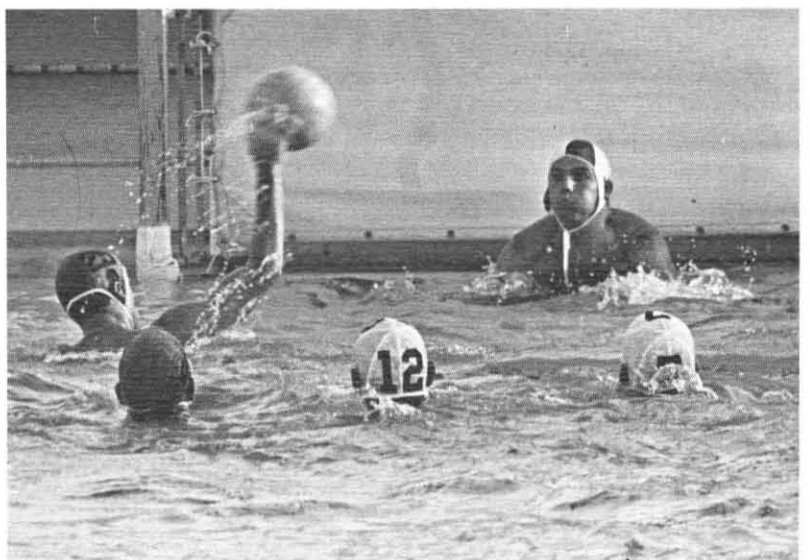




SEASON'S RESULTS:

Caltech		Opp.
6	Pasadena CC	17
6	Alumni	7*
5	Cal St., Fullerton	12
3	San Fernando V.S.	12
6	Citrus CC	2
4	Riverside CC	5*
4	Cal St., Fullerton	12
5	Occidental	2
0	Pomona	5
5	Claremont-Mudd	7
3	Pomona	9
4	Cal St., LA	6
11	UC Riverside	6
4	Redlands	6
7	Occidental	12
3	Claremont-Mudd	7
2	Pomona	4
3	Rio Hondo JC	11
6	Redlands	5
6	Occidental	4

* Overtime





First Row: A. Peterson, R. Ledford, R. Antaki, L. Gagliani, M. Smith, T. Tardiff, Second Row: J. Moller, manager, D. Hermeyer, W. Stoecker, S. Johnson, E. Thompson, R. Jackson, Coach Walter Mack.

CROSS COUNTRY



Even while lacking the skills of last season's three best runners, the Tech harriers still can win a meet or two. This was mainly due to the services of the three frosh; Tim Tardiff, Dick Ledford, and Martin Smith. Ed Thompson and Bob Jackson co-captained the Varsity and JV teams. There were no frosh races this year in the conference. At the Biola Invitational, the Techers finished 12th out of 16, and beat Claremont-Mudd in the league finals to tie for 5th in the conference. With this year's team predominately of underclassmen, the future looks bright.

SEASON'S RESULTS:

Caltech		Opp.
30	Claremont-Mudd	25
50	Occidental	15
31	Pomona	26
48	Redlands	15
28	Whittier	19
28	Pasadena College	29

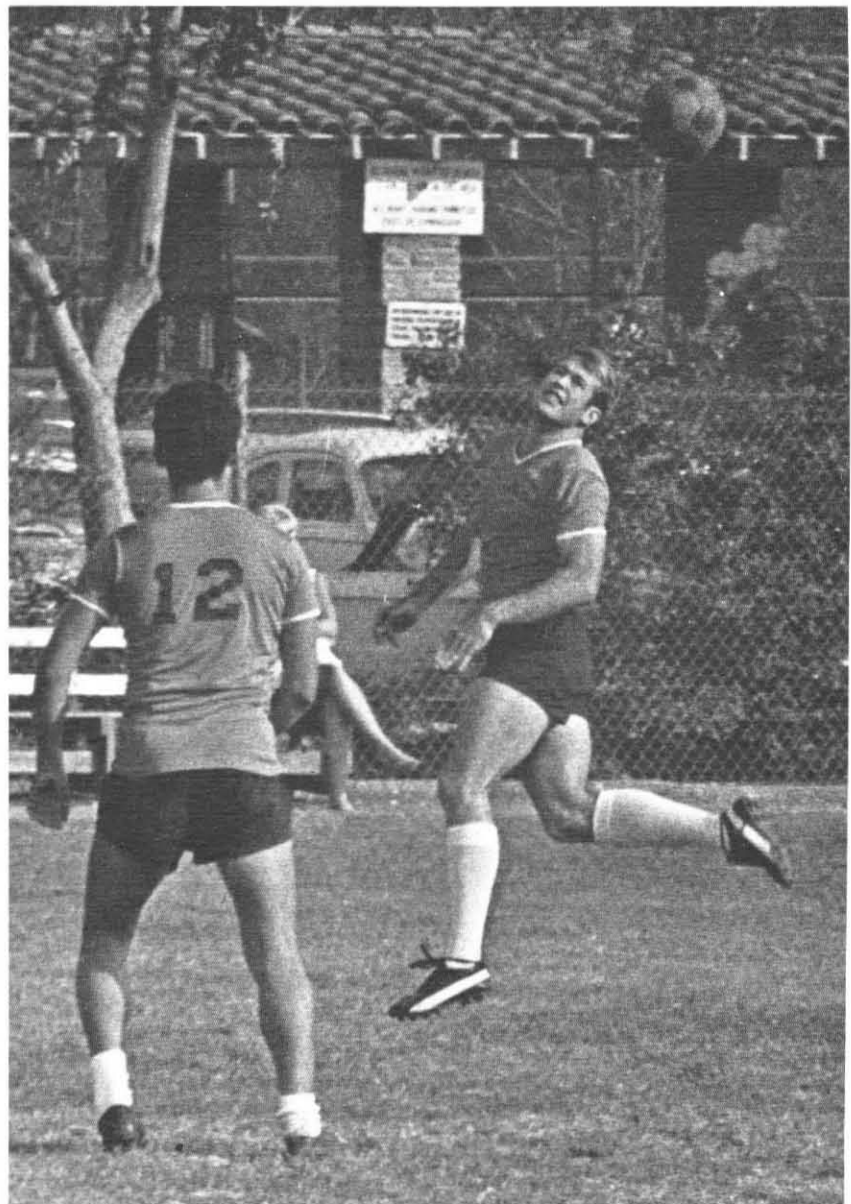
low score wins

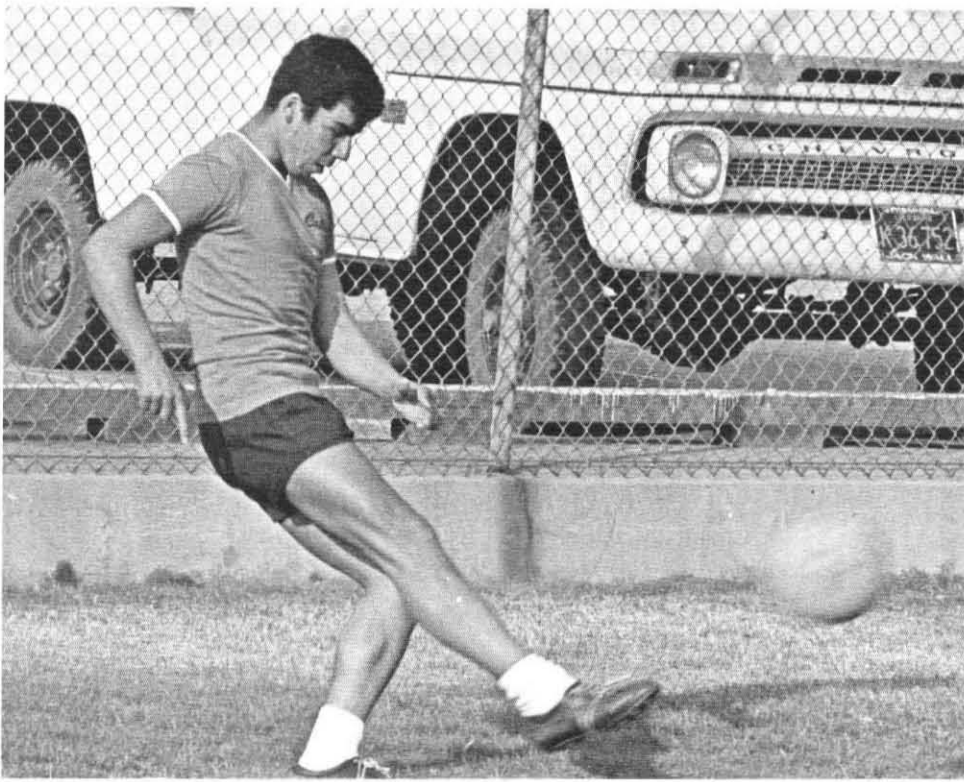


First Row: L. Lebofsky, Mgr., J. Templeton, S. Hadler, R. Graham, R. Strelitz, J. McWilliams, M. McCleod, A. Wrobel, V. Junkkarinen, R. Woody, G. Eisman, M. Johnson, Second Row: N. Smith, L. Erickson, A. Moreira, H. Butcher, P. Bartlett, B. Penrose, N. Briceno, J. Hall, R. Burton, Coach Kenoe, D. Engleman, L. Fishbone.

SOCCER

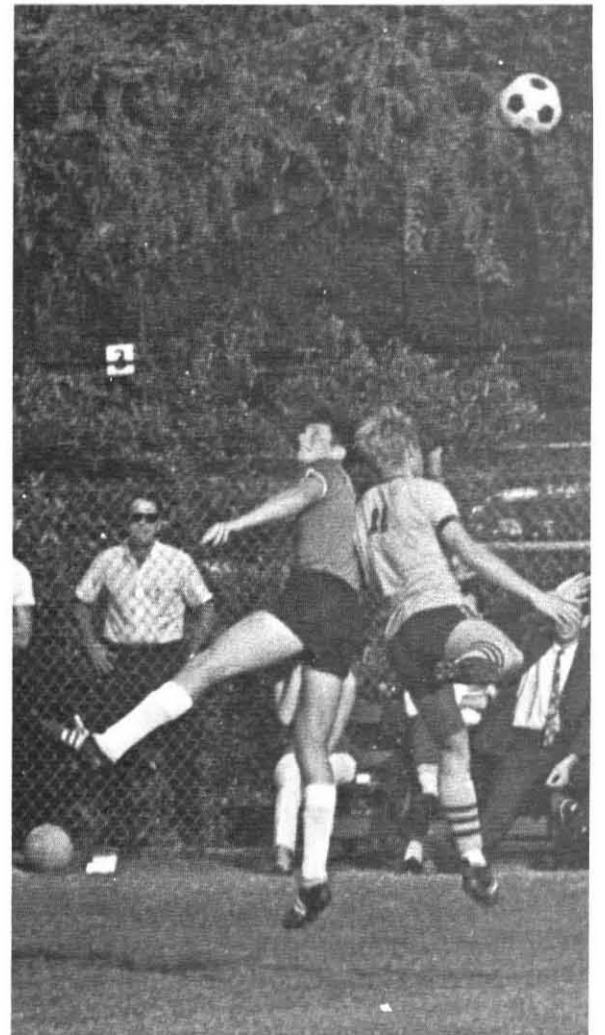
With unexpected strength coming from freshman recruits, the undergraduate soccer team made one of its best showings in recent years. The Beavers traveled far, playing thirteen games over a span of eight weeks. At the season's end, three of Tech's varsity players, Joe Templeton, Richard Burton, and Nelson Briceno, made the All-Conference team. The team is losing some of its best players this year, but enough good men are returning to make next year look very promising.





SEASON'S RESULTS:

Caltech		Opp.
1	Cal Poly SLO	2
0	Redlands	4
0	UC Santa Barbara	2
2	Cal Poly Pomona	1
1	USC	3
2	Biola	1
3	Loyola	5
3	Occidental	1
2	Whittier	3
0	Westmont	7
0	UCLA	7
0	Fresno Pacific	0
0	Pomona	1





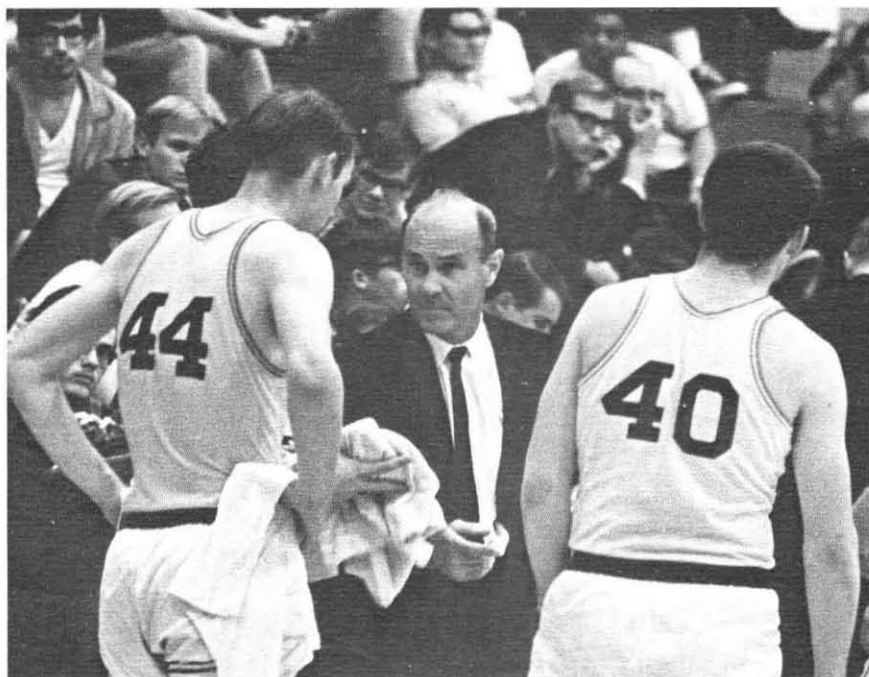
VARSITY: Coach Scott, D. Carrie, T. Bicknell, B. Ault, J. Frazzini, G. Koenig, T. Heinz, T. Bruns, L. Martin, J. Stanley, M. McDonald, D. Blakey, Coach Preisler. Kneeling: Managers A. Christians, and S. Hadler.

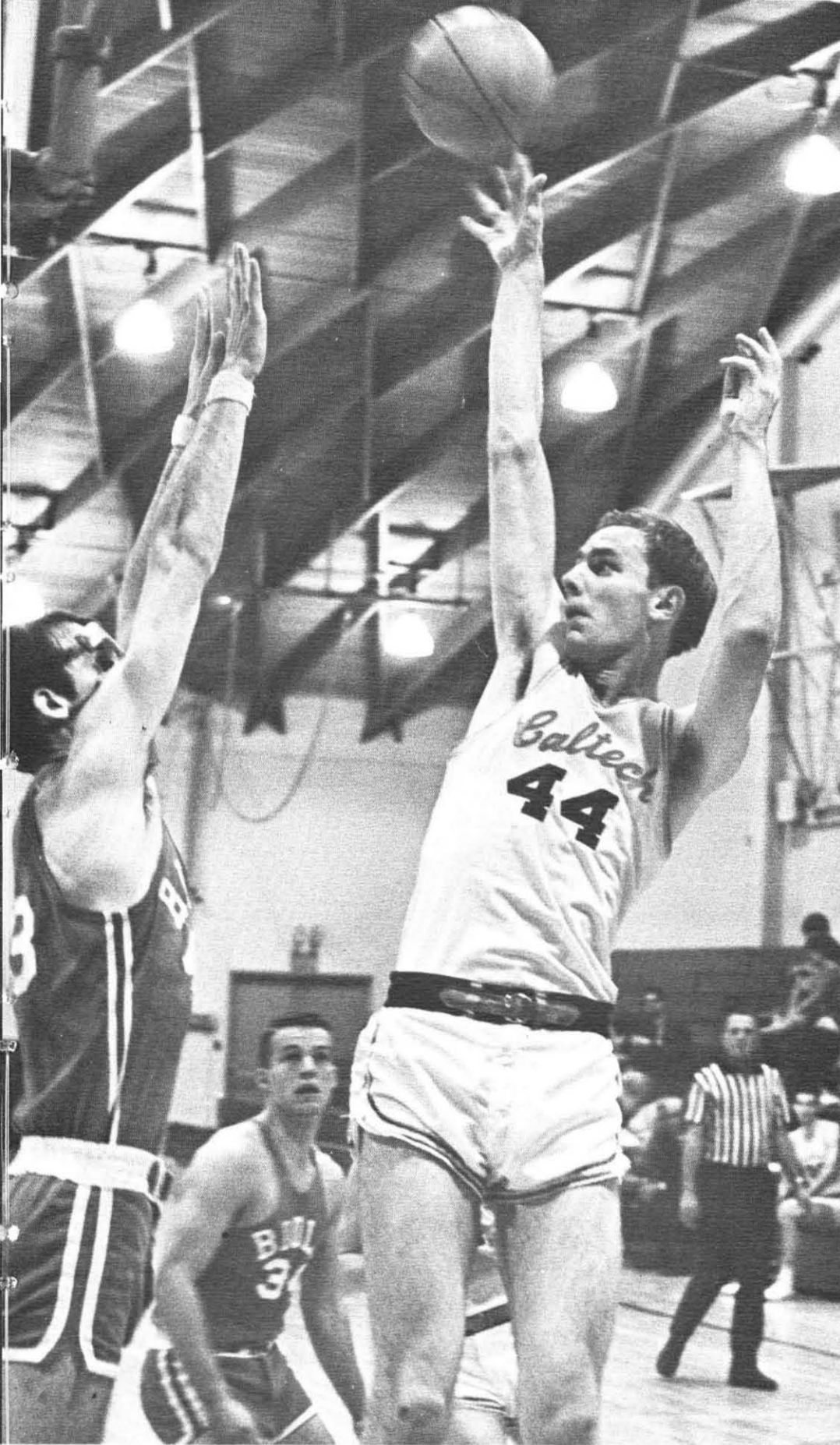
BASKETBALL

Coach Ed Preisler's varsity basketball team started off the season with a win and a couple of good efforts, but the term break took its toll and the team didn't put the pieces back together until midway through the season. The biggest problem all year was a weak defense but the last few games saw a hustling defense and a much improved offense which won big twice, and lost two consecutive overtime games as the team began to play ball like it wanted to win. This year's team was characterized by its balance as all ten players broke into the starting lineup at one time or another. The team was led by high scoring Captain Terry Bruns and hustling Jim Stanley. Bruns showed some fine rebounding and set a new school scoring record, while Stanley was almost unstoppable when he got hot. Much needed strength and experience at the forward positions was provided by John Frazzini, Lonnie Martin, and Bruce Ault. Lonnie came back after a year away from the courts and showed that he had not lost his touch, and Frazzini and Ault did a good job on the boards and on defense. A pleasant surprise came in the form of three freshmen, Tom Heinz, Gary Koenig and Dick Blakey. Big Tom proved to be a capable rebounder and hopefully will develop into a scoring threat next year, as should Gary. Rounding out the starting ten were sharpshooting Dennis Carrie and Tom Bicknell, two fine guards who should provide a good scoring threat and capable ball handling for next year.



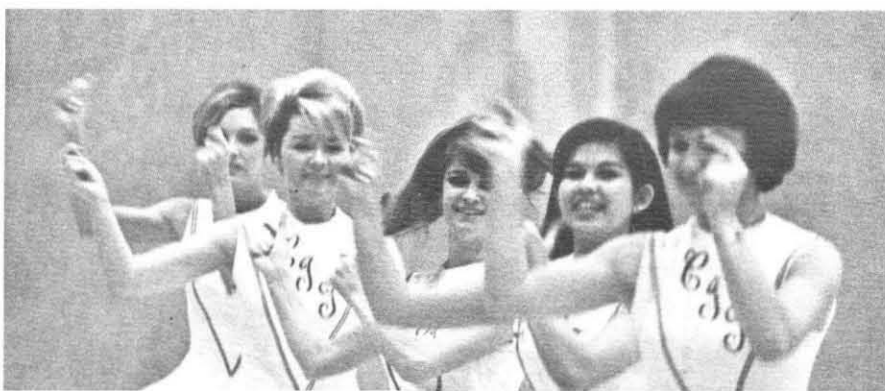
J.V.: Standing: Coach Scott, H. Taylor, R. Williams, J. Wueste, K. Hanson, S. Kraus, W. Nichols, Coach Preisler. Kneeling: S. Hadler, P. Lowry, J. Hall, J. Herwitz, J. Wronowski, A. Christians.

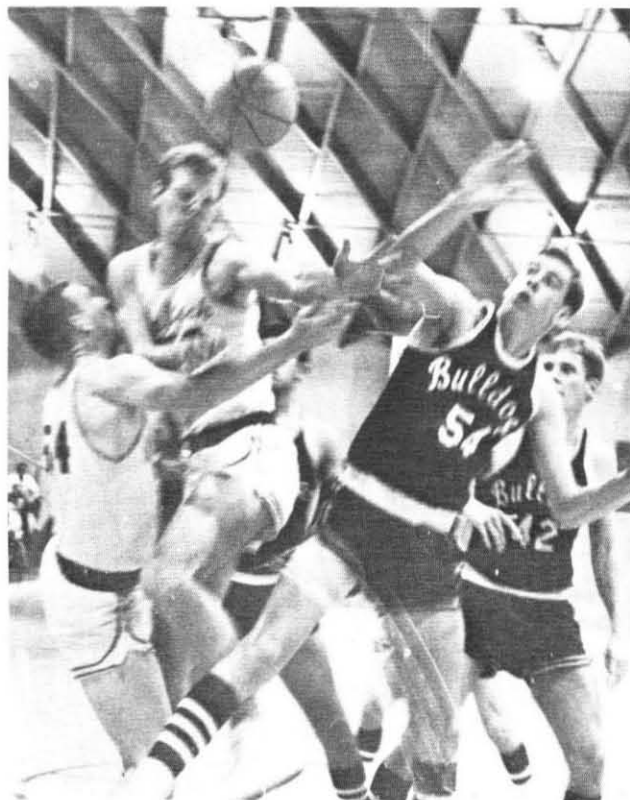
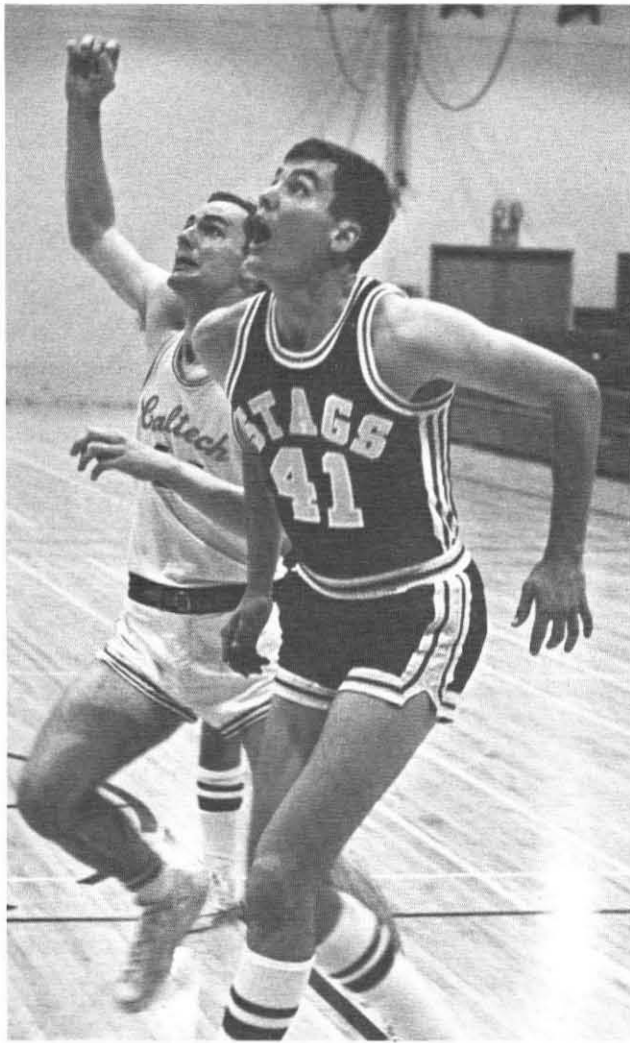


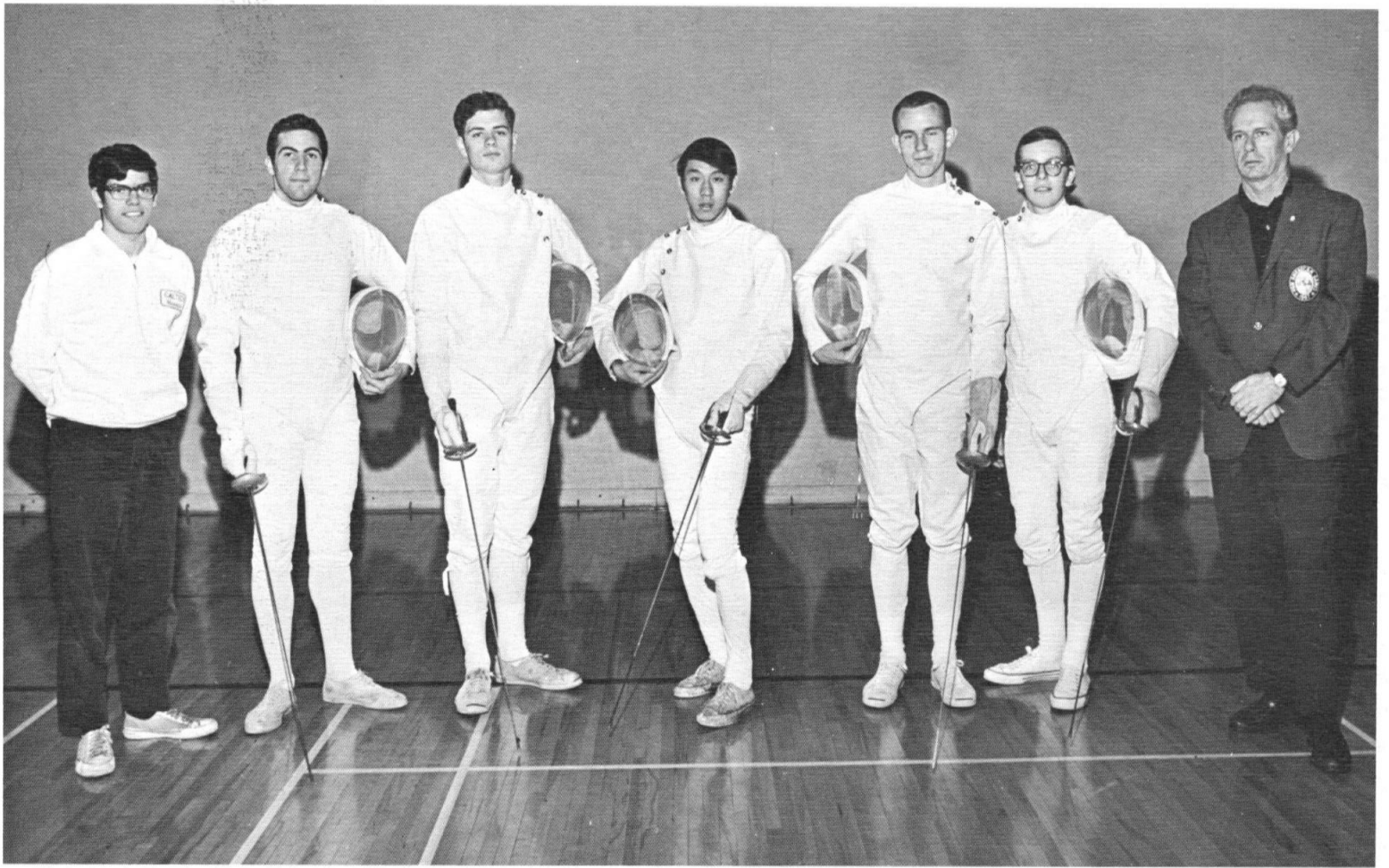


SEASON'S RESULTS:

Caltech	Opp.
62	So. Cal. College 78
86	Life 78
78	La Verne 91
71	Biola 98
58	Cal. Baptist 77
54	Pomona 83
49	Occidental 93
47	Claremont-Mudd . . . 91
76	Life 74
86	L.A. Baptist 100
76	La Verne 106
59	Pomona 86
51	Whittier 98
43	Occidental 89
61	Redlands 80
68	Cal Baptist 72
103	Pacific Christian . . . 56
49	Claremont-Mudd . . . 82
75	L.A. Baptist 84
76	Biola 81
53	Redlands 87
103	Life 67
43	Whittier 96







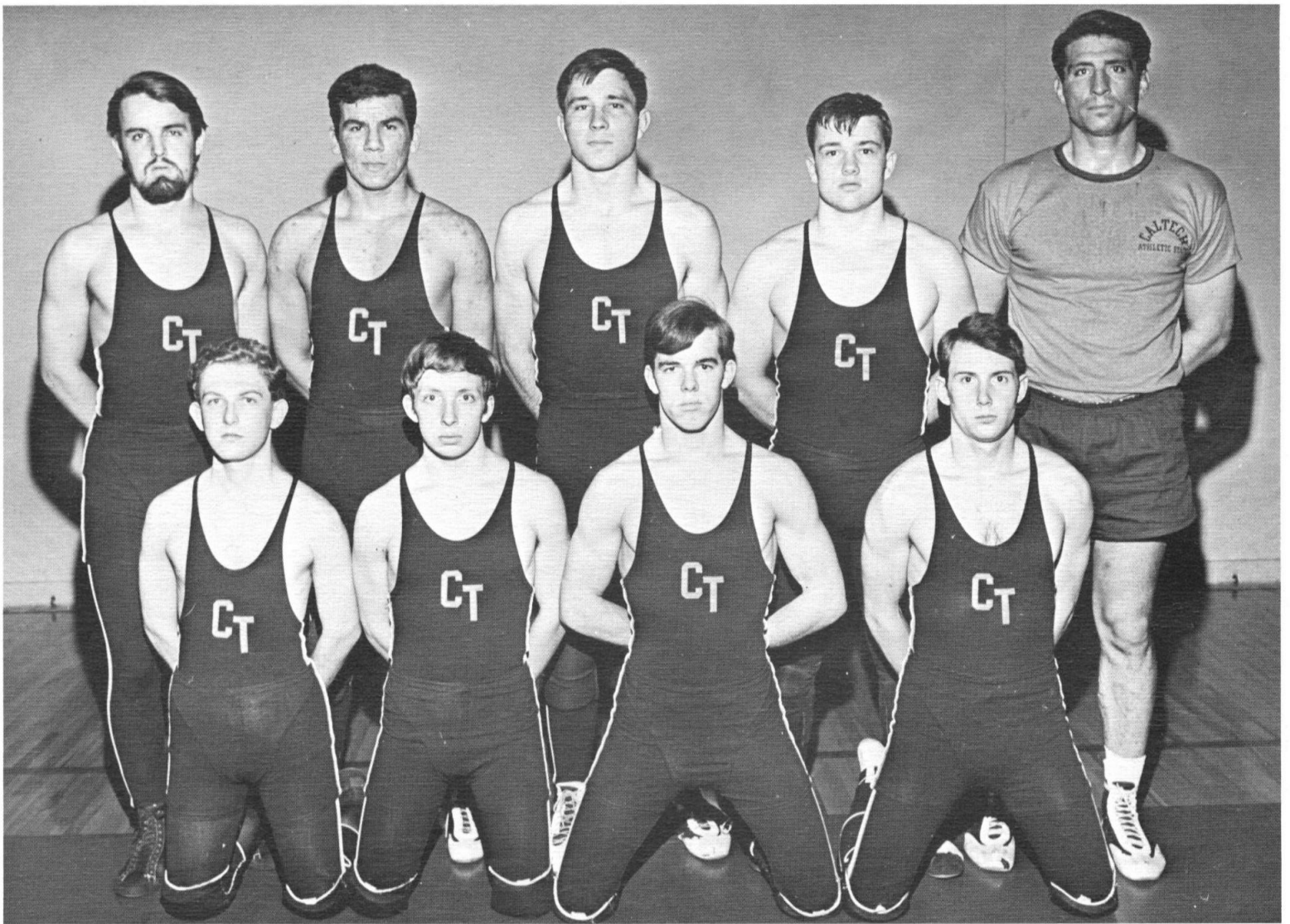
R. Ashley, Manager, D. Nemzer, D. Perasso, R. Hsu, G. Clough, R. Piccard, Coach Calvert.

FENCING

SEASON'S SCORES:

Caltech		Opp.
Foil:		
7	San Diego St.	2
3	Cal St. LA	6
4	Cal St. LB	5
3	UC Irvine	6
7	Cal St. LA	4
2	UC Riverside	7
2	San Fernando V. St.	7
1	UCSB	8
6	Cal St. LB	1
2	UC Riverside	7
Epee		
3	San Diego St.	6
4	Cal St. LA	5
2	UC Irvine	7
3	Cal St. LB	6
5	Cal St. LA	2
2	UC Riverside	7
4	UCSB	5
3	San Fernando V. St.	6
1	UCLA	8

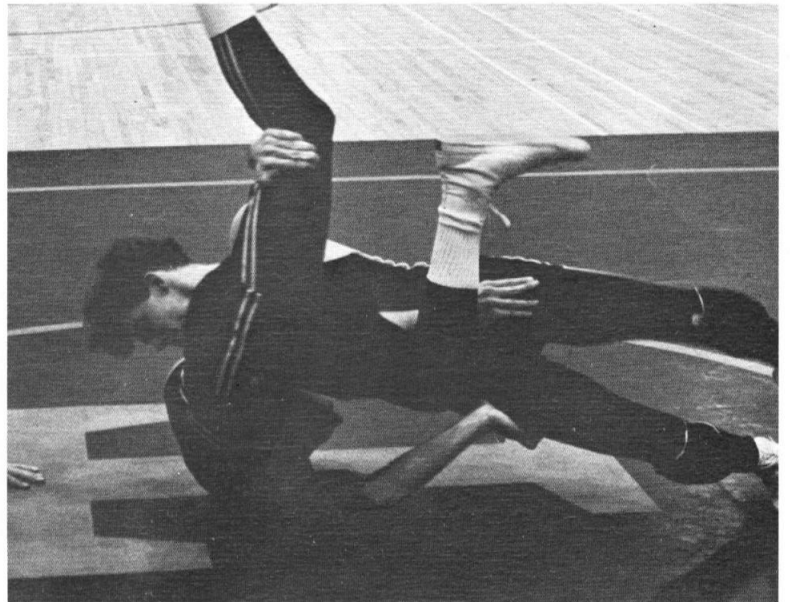


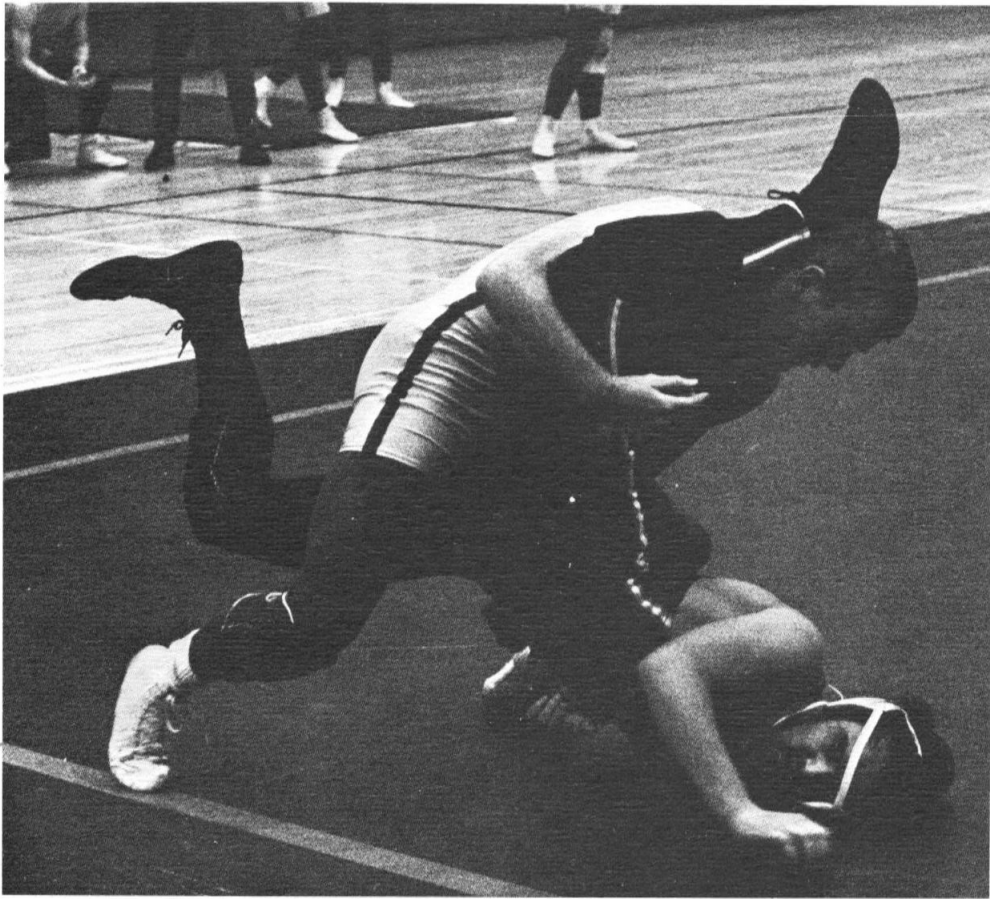
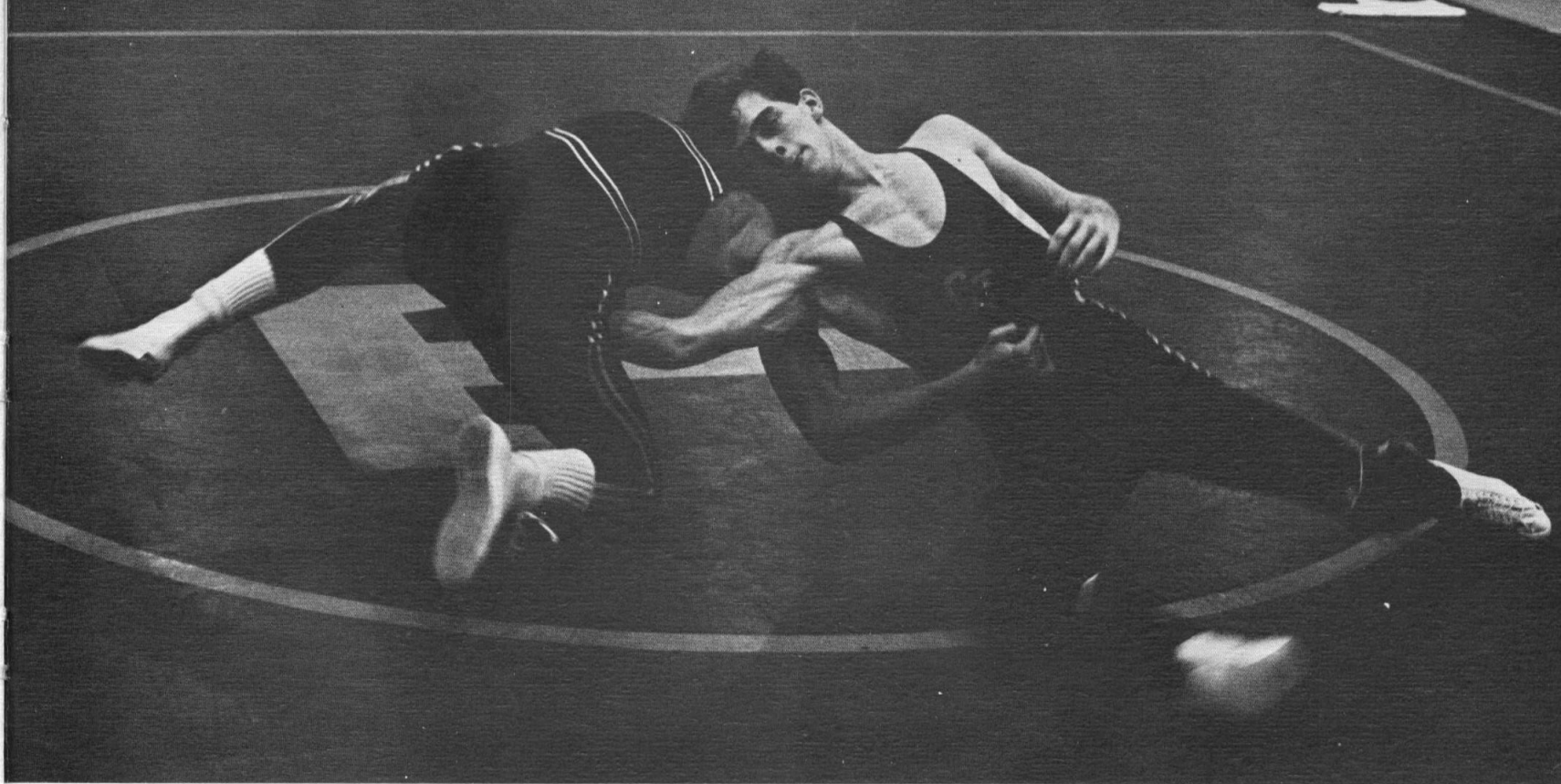


Standing: M. Karspeck, N. Briceno, A. Beagle, J. Devinny, Coach Gutman. Kneeling: J. Batchelder, D. Hornbuckle, K. Higgins, R. Crane.

WRESTLING

The wrestling team had quite a successful year considering the forfeiture of two and usually three weight classes each dual meet. The 160 match points amassed by Caltech wrestlers during dual meets, versus 175 scored by the opposition show how evenly matched Caltech was. In the conference tournament held early in the year, the team placed fourth, receiving a big lift from Ken Higgins' win in the 130 lb. class. Team captain, Alan Beagle, led the team in dual meet competition with a 9 and 2 record, both losses in heavier weight classes. The guidance of Coach Gutman and Dave Schramm helped in the development of a very inexperienced team that should prove much better next year.





SEASON'S RESULTS:

Caltech		Opp.
30	Trade Tech	25
3	Biola	36
16	Pasadena College ..	30
6	Pomona	29
13	Whittier	28
13	Pomona	33
16	Claremont-Mudd ...	30
16	UC Riverside	21
18	LACC	18
21	Pasadena College ..	23
15	Redlands	28
6	Whittier	33
3	Cal Lutheran	34



First Row: Coach Reck, P. Richards, J. Rude, B. Hall, L. Watkins, L. Young. Second Row: B. Britton, Mgr., G. Wright, G. Yarbrough, Mgr., J. Brinch, H. DeWitt, Capt., M. Kalisvaart, T. Davis, E. Evans, Asst. Coach. Third Row: H. Peterson, T. Miller, M. Tyson, L. Hunt, M. Stefanko.

SWIMMING

Led by captain Henry DeWitt, the Beaver swimmers had one of their most successful seasons in recent years by winning ten of their fifteen meets during the year, and three of the losses came at the hands of national champion teams, USC, PCC, and CHM. Besides an outstanding dual meet record, the team placed seventh at the NAIA national championship meet with four men, Henry DeWitt, Gregg Wright, Maarten Kalisvaart, and Mybry Tyson being named to the NAIA all-American team. In addition, DeWitt was named to the NCAA college division all-American Team. The year also saw nearly all of the school records replaced for the second year in a row and the oldest presently standing record was set last year.

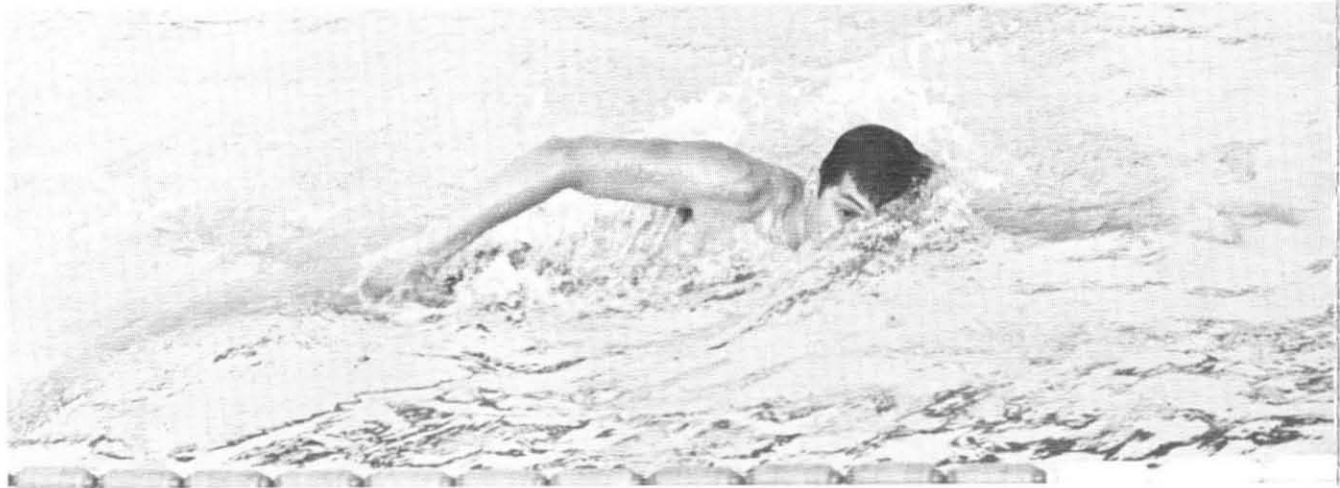
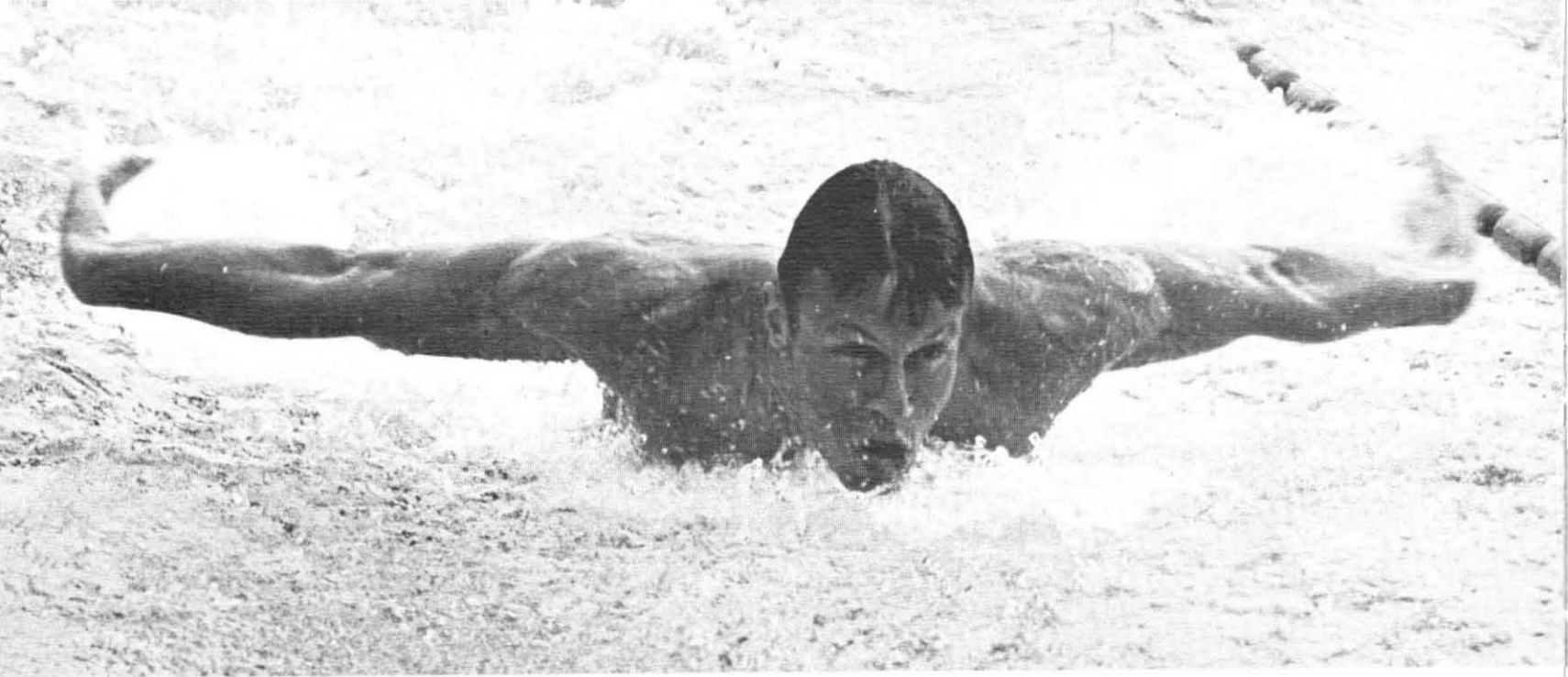
Because the team is losing only one man and there are prospects of good freshmen, the team looks forward to another successful season next year.





SEASON'S RESULTS:

Caltech	Opp
43 Pasadena CC	70
69 UC San Diego	42
28 USC	85
67 Cal St. L.A.	45
59 Cal Poly, Pomona	49
61 San Fernando Valley St. . .	52
55 Santa Monica CC	53
57 Cal St. Fullerton	56
84 Chaffey JC	28
40 Claremont-Mudd	73
57 El Camino	56
53 Occidental	60
65 Pomona	43
74 UC Riverside	39
45 Redlands	68





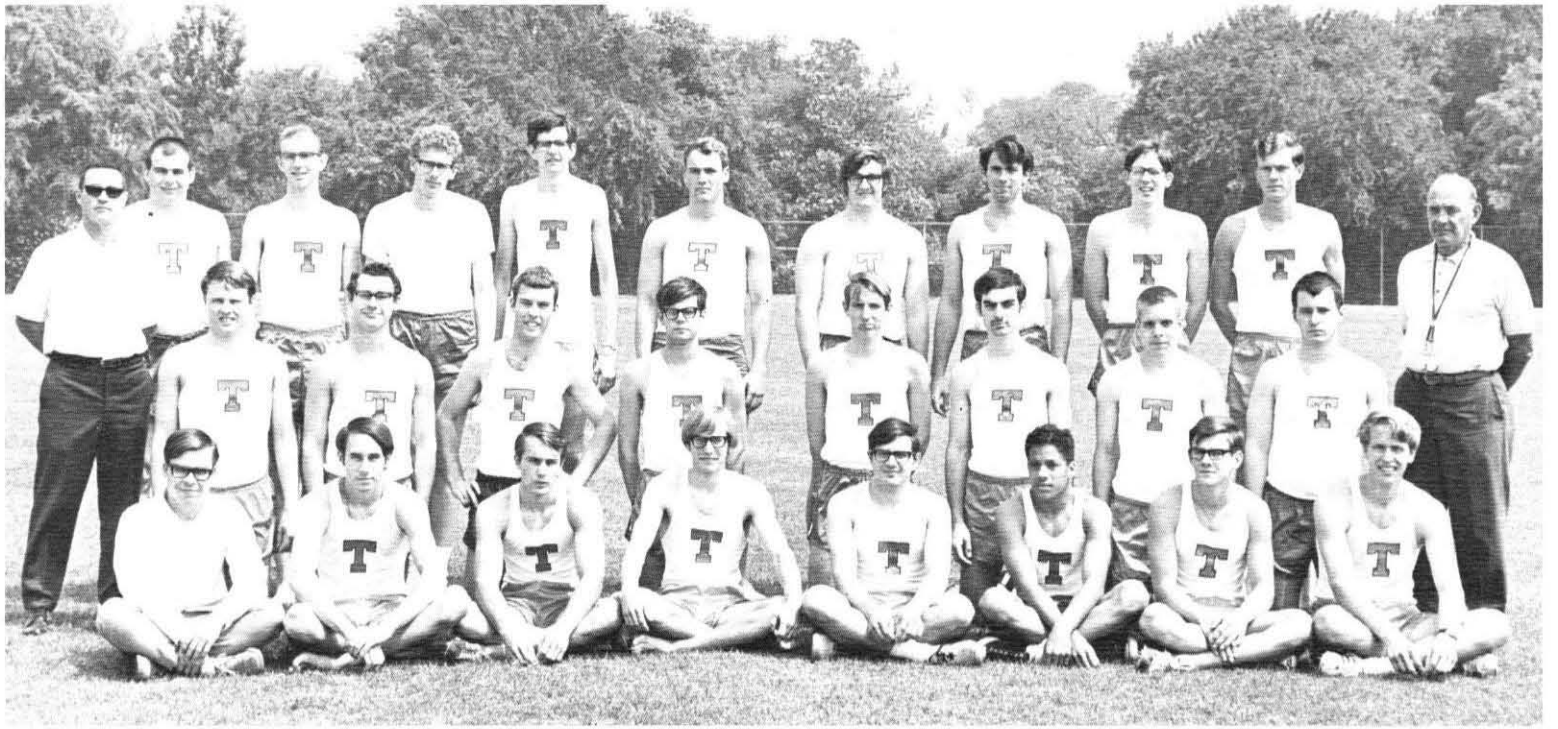
First Row: H. Kreiger, M. Frost, G. Prestwich, G. Evans, C. Tyner, J. Garmany, Coach J. Lamb. Second Row: P. Zassenhaus, J. Crawford, G. Duesdieker, P. Youtz, J. Healy, R. Davidheiser, K. Edwards.

TENNIS

The tennis team again this year found that it had many good players but that the opposition had more and better ones. While the overall season record was a dismal one, the match scores are not a full indication of the team's effort. Frequently the team would lose badly in the meet score and yet never decisively lose a match. It is hoped that next year the team will continue to improve and win a few more matches.

SEASON'S RESULTS:

Caltech	Opp.
0	Redlands 9
4	Terminal Island Navy 5
7	Loyola 2
3½	Cal Lutheran 5½
2	Loyola 5
1	Occidental 8
0	UC Riverside 9
0	U.S.C. 12
1	Claremont-Mudd 8
9	Biola 0
2	Pomona 7
0	Pasadena College 9
3	Claremont-Mudd 6
0	Pomona 9
1	Occidental 8
5	Cal Poly Pomona 4
0	Redlands 9
2½	Whittier 6½
2	Whittier 7

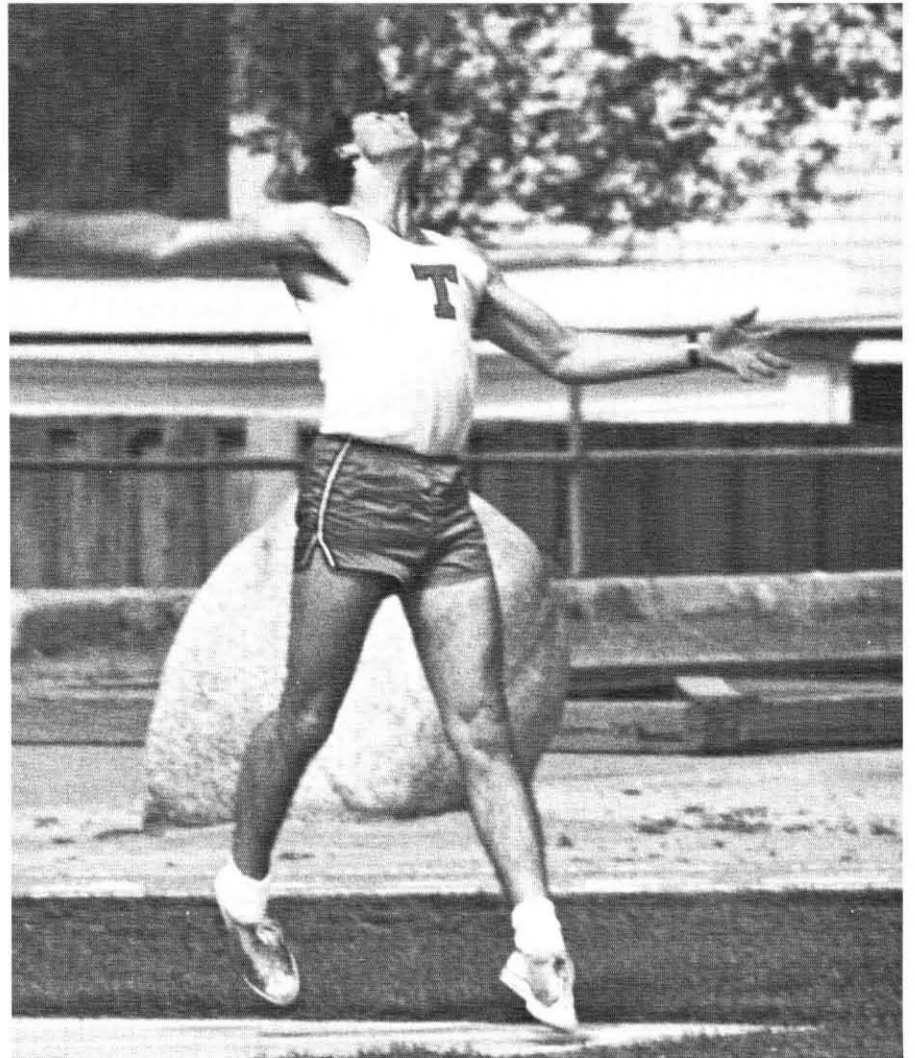


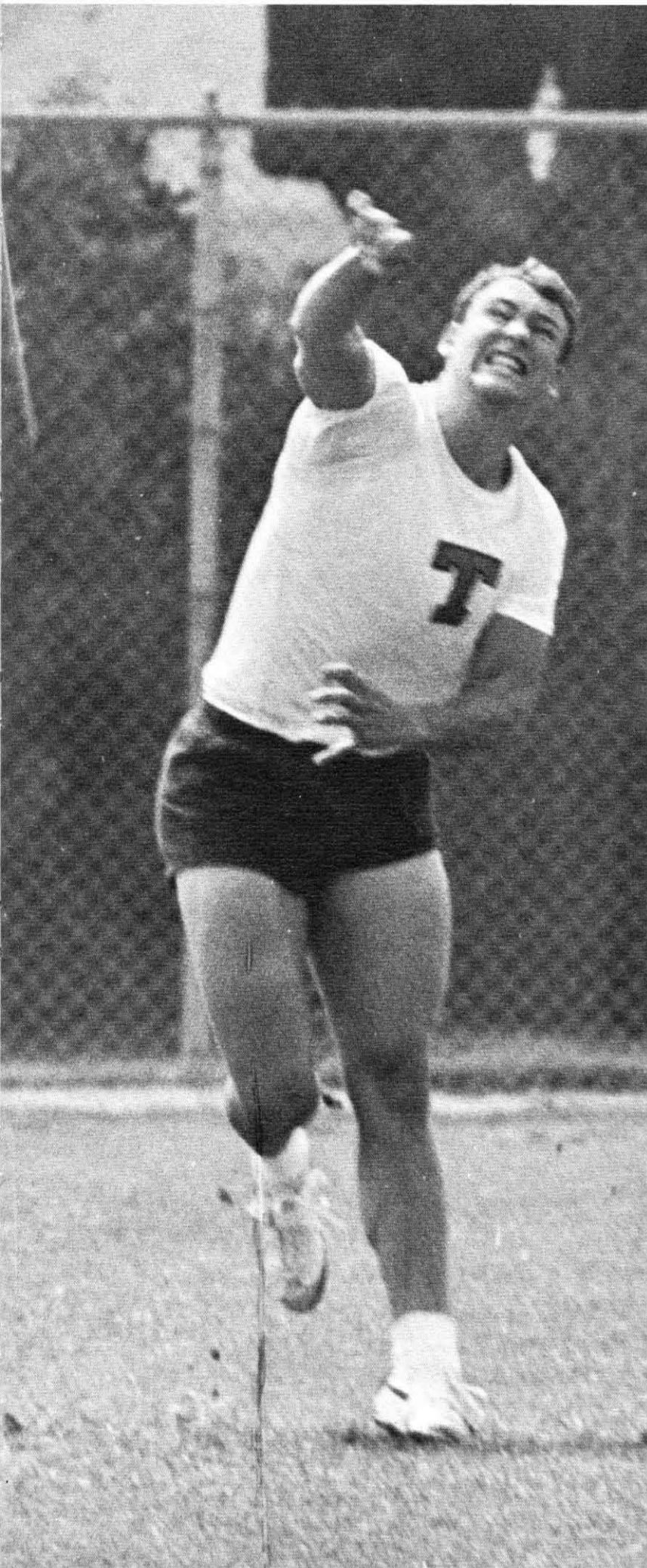
First Row: D. Switzer, Mgr., J. Andrew, B. Butterworth, R. Tarjan, B. Antaki, M. Smith, H. Tyler, B. Jackson. Second Row: P. Barthel, Coach and Trainer, A. Schultz, E. Jensen, J. Cummings, T. Tardiff, G. Fox, A. Peterson, R. Norman, M. Ruth, Coach B. Lagrucherie. Third Row: M. McDonald, D. Hermeyer, L. Gagliani, P. Mikkelsen, T. Burton, T. Blaschko, R. Levinson, L. Pilachowski, H. Petrie.

TRACK AND FIELD

This year's track team's season was a series of one close meet after another. We beat Pomona by three yards in the final relay and lost to Whittier by the same margin. Because of the extreme closeness of the meets, each one was a total team effort requiring maximum performances from each team member. By the end of the season we had posted a very respectable 7 and 5 record.

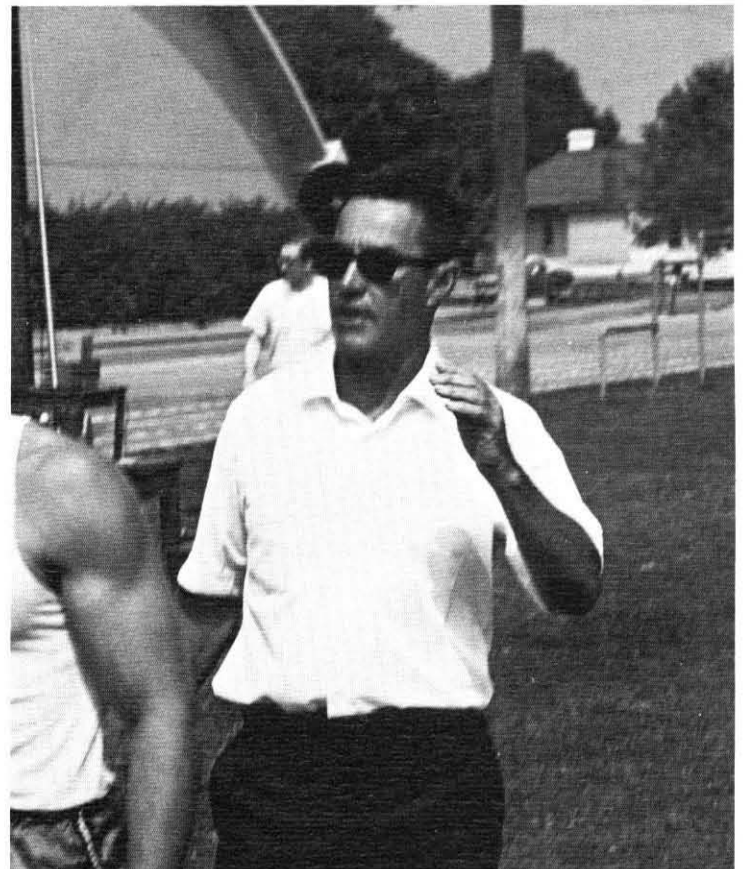
The team will suffer next year from the loss of seniors Rock Levinson, Hal Petrie, and co-captain Jim Stanley. If men can be found to take the place of these seniors and to fill a few weak spots, next year's team led by co-captain Bob Tarjan and our returning upperclassmen and freshmen will be a very strong contender against any of our opposition.

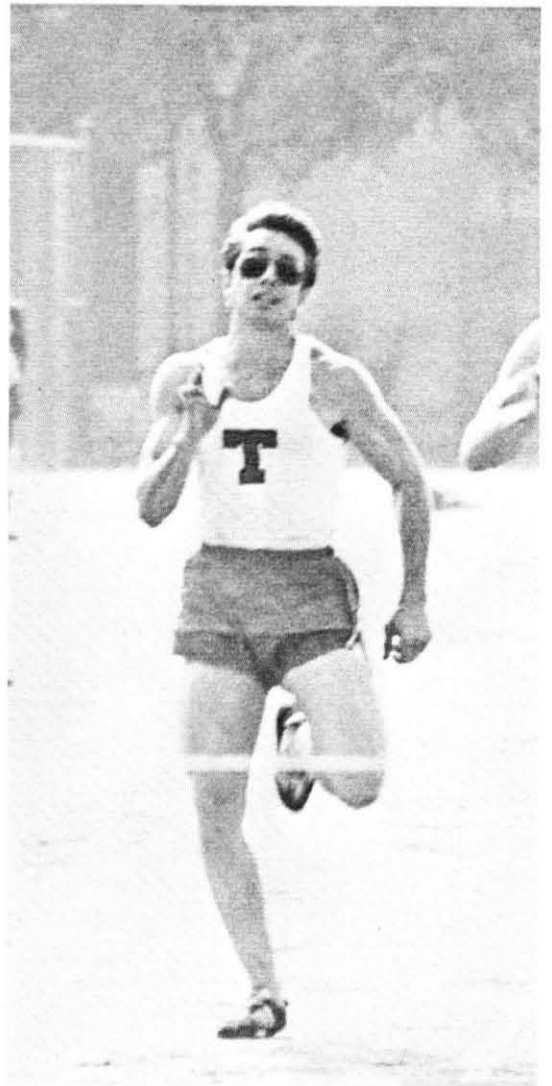




SEASON'S RESULTS:

Caltech		Opp.
43	Redlands	102
77	Pomona	68
10	Occidental	135
98½	Southern Cal. College ...	45½
67	Claremont-Mudd	78
90	Cal Lutheran	50
109	La Verne	34
79	Biola	65
94	Azusa-Pacific	51
76	Pasadena College	68
68	Chapman	77
68	Whittier	77







First Row: N. Holmes, M. Lindenfeld, J. Heuman, A. Barkus. Second Row: J. Larson, S. Insana, C. Reed, J. Taylor, M. Radomski, Coach Cassiel.

GOLF

SEASON'S RESULTS:

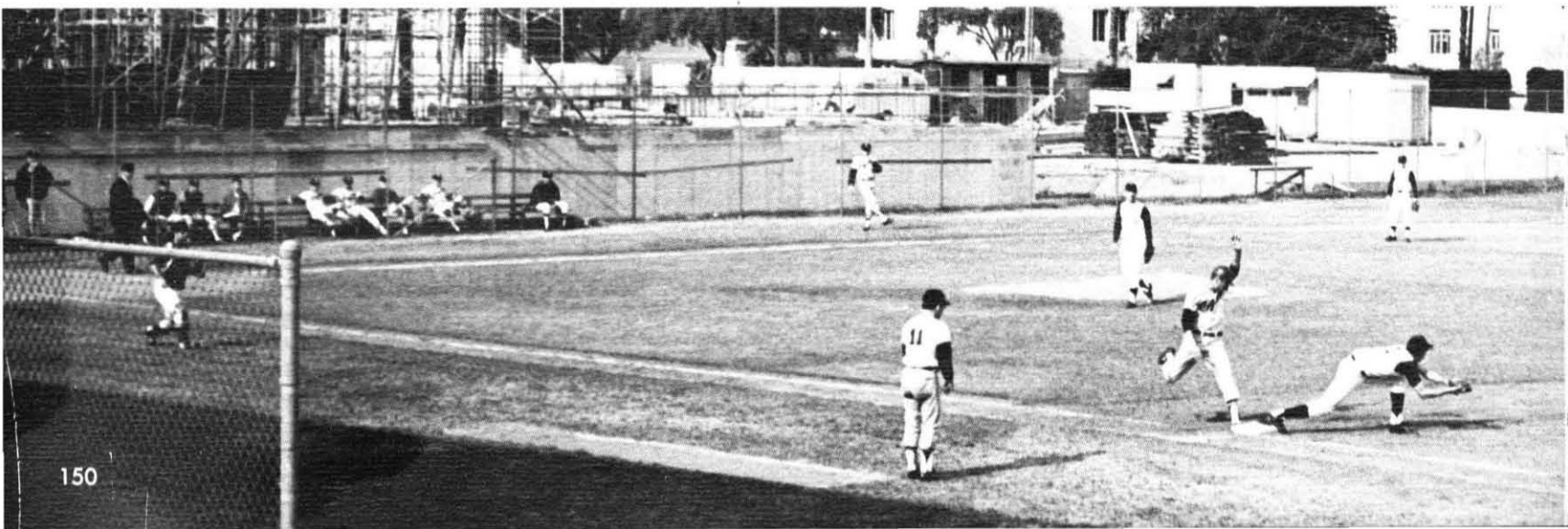
Caltech	Opp.
7	Redlands47
14	Occidental40
0	Claremont-Mudd54
25	La Verne11
22	Pasadena Col.14
5	Claremont-Mudd49
4	Whittier50
22	Pomona32
15	Occidental39
22	Cal Lutheran32
19	Pomona35
1	Redlands53
2	Whittier52

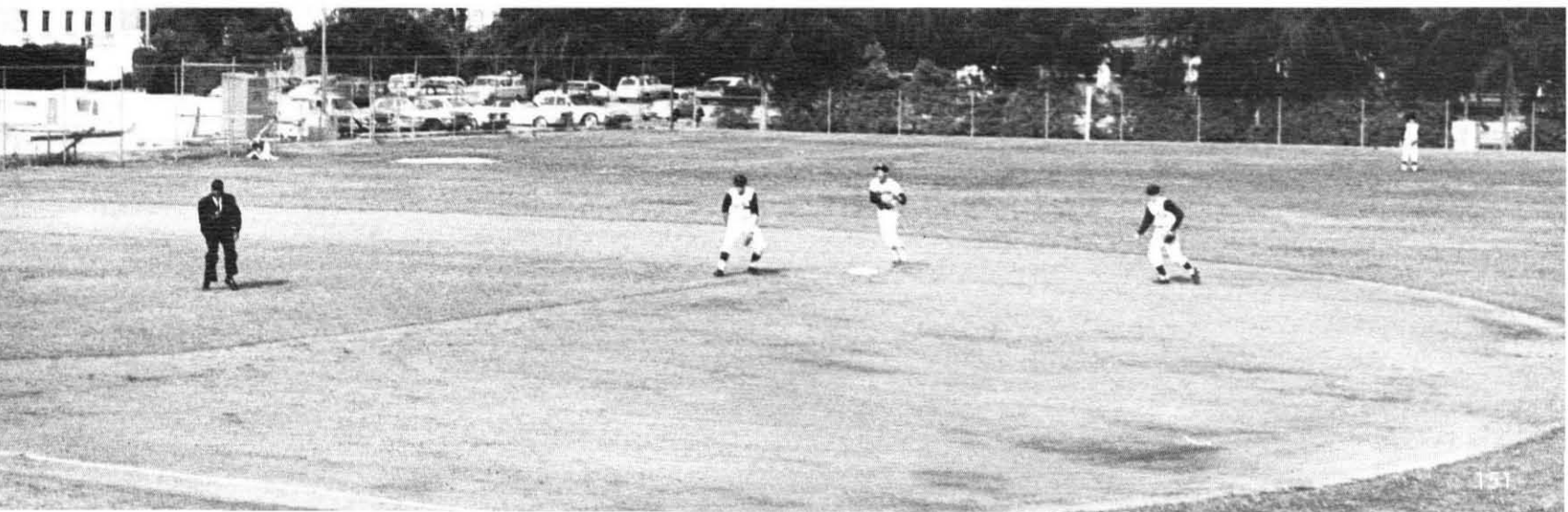


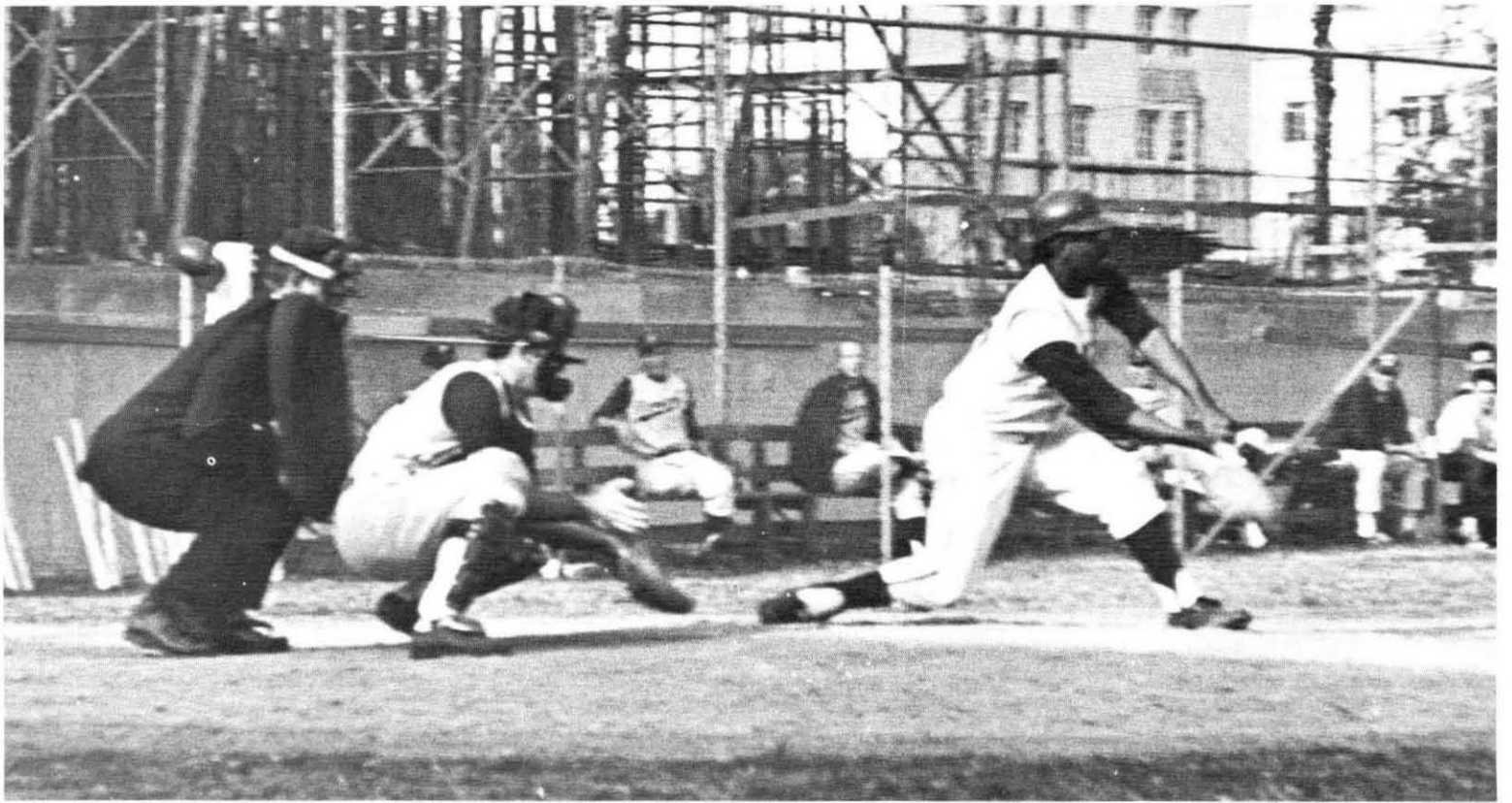
First Row: A. Beagle, J. Chapyak, S. Savas, M. Turner, C. Creasy, J. Eisman, W. Delaney, J. Cronin, Mgr. Second Row: Coach Bond, C. Helverg, M. Meldgin, J. Frazzini, L. Fettig, B. Firestone, L. Martin, G. Adamson, A. Wiltsee, Coach Preisler.

BASEBALL

The baseball team found itself in the position of almost all of Caltech's teams, a few outstanding players and a lot of hard workers, but not quite enough talent to beat the opposition. Short-stop Lonnie Martin made the second team all-league, but the team only won two league games to again finish in the cellar. With the loss of only four seniors, the team can look forward to a potential good year if they can succeed in finding new pitching talent in the incoming frosh.

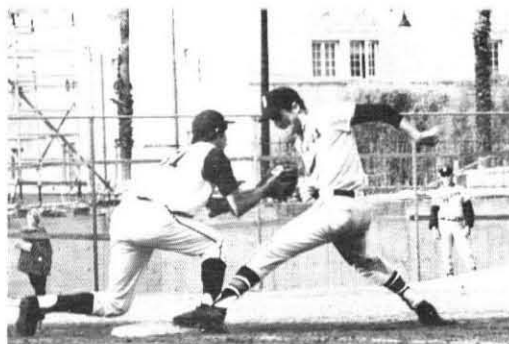






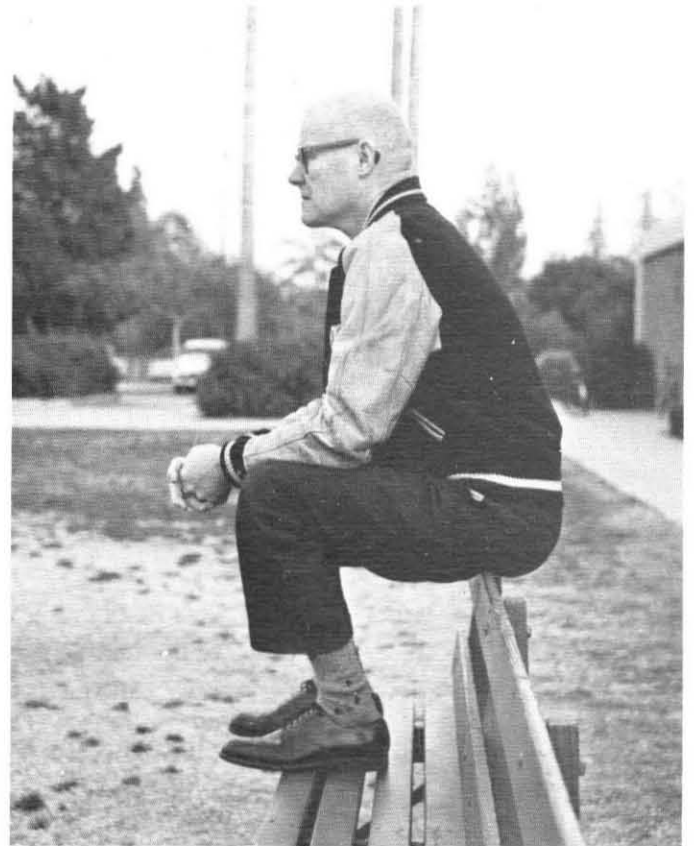
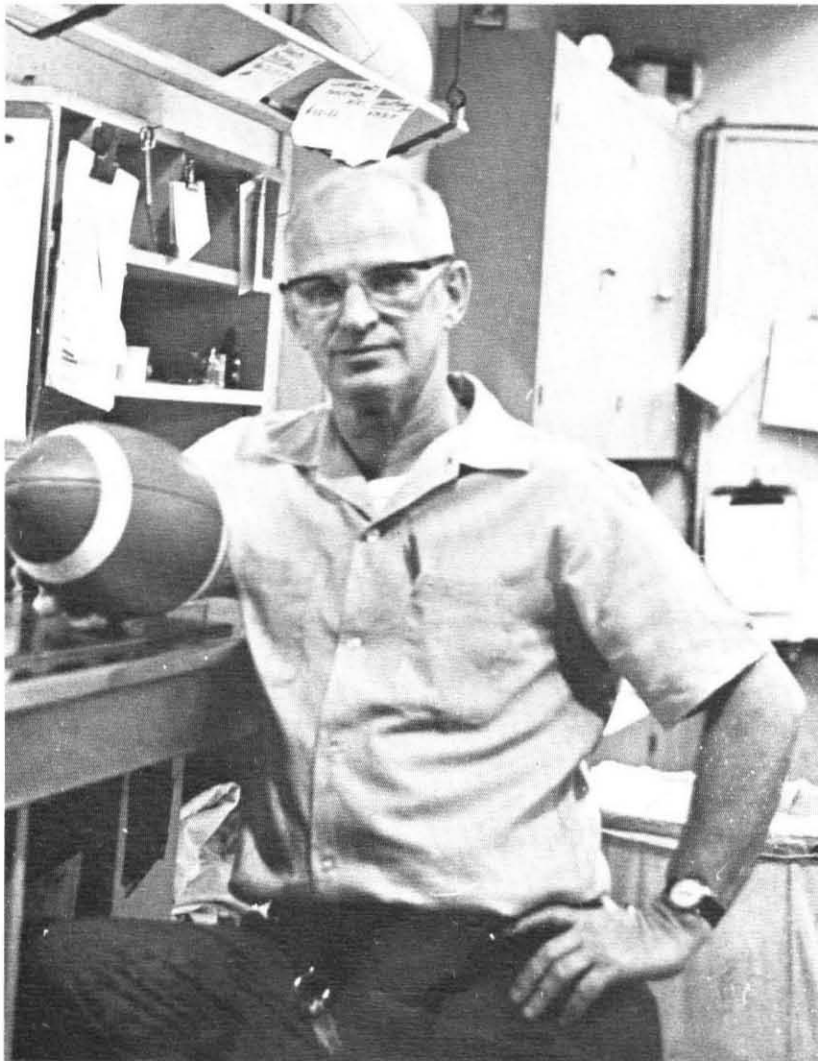
SEASON'S RESULTS:

Caltech		Opp.
0	BIOLA	3
0	BIOLA	13
0	Azusa	18
0	Cal Lutheran	6
1	Cal Lutheran	11
6	L. A. Baptist	6
5	So. Cal. College	3
11	So. Cal. College	12
3	Redlands	14
0	Redlands	7
6	Redlands	14
3	Claremont-Mudd	2
24	L. A. Baptist	7
0	Claremont-Mudd	20
1	Claremont-Mudd	5
6	Cal Lutheran	18
7	Life	2
9	Life	5
1	Occidental	14
0	Occidental	8
0	Occidental	15
3	Pomona	6
7	Pomona	13
6	Pomona	5
1	Whittier	4
4	Life	6
2	Whittier	3
0	Whittier	7





STAFF



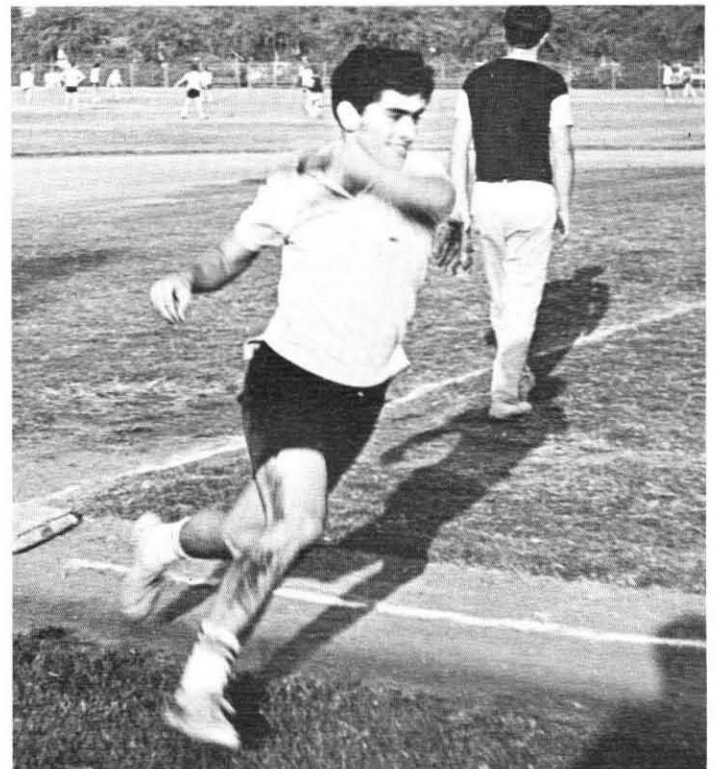
Other men besides the coaches help keep the athletic teams working and supplied. While their job is not always obvious and frequently goes unnoticed, their services are always appreciated. In case you did not recognize the great bird in the top picture, it is Tom Gutman who really is a coach, but the editors could not resist the temptation to put the picture somewhere in the book.

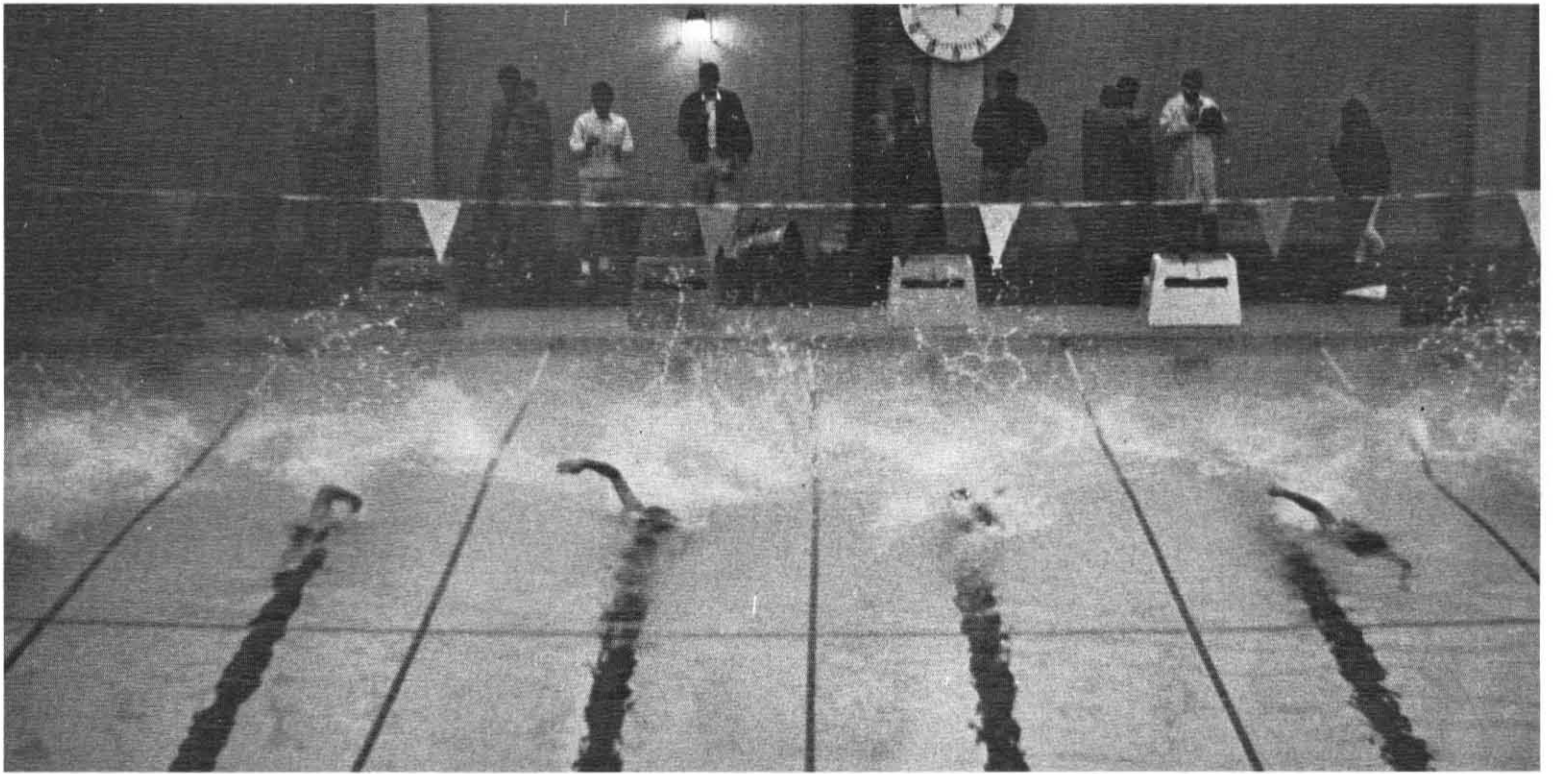


IH SOFTBALL

FINAL RESULTS

Place	House	Won	Lost	Tied
1.	Fleming	5	1	0
1.	Ricketts	5	1	0
3.	Page	4	2	0
3.	Lloyd	4	2	0
5.	Blacker	2	4	0
6.	Rudock	1	5	0
7.	Dabney	0	6	0





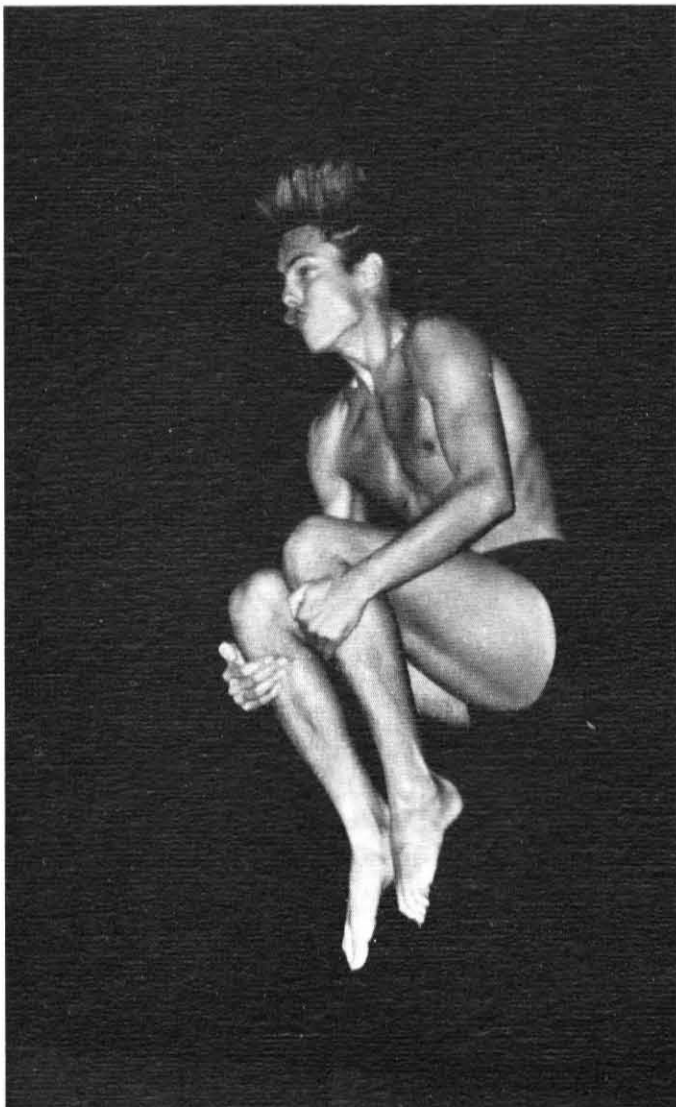
IH SWIMMING AND DIVING

Fleming's medley relay team set the tone of the meet by stroking to a new meet record as Fleming outdistanced second place Blacker to gain a commanding lead in trophy points.

FINAL SCORES

1.	Fleming	74
2.	Blacker	43½
3.	Dabney	38
4.	Ruddock	35
5.	Ricketts	24½
6.	Page	20

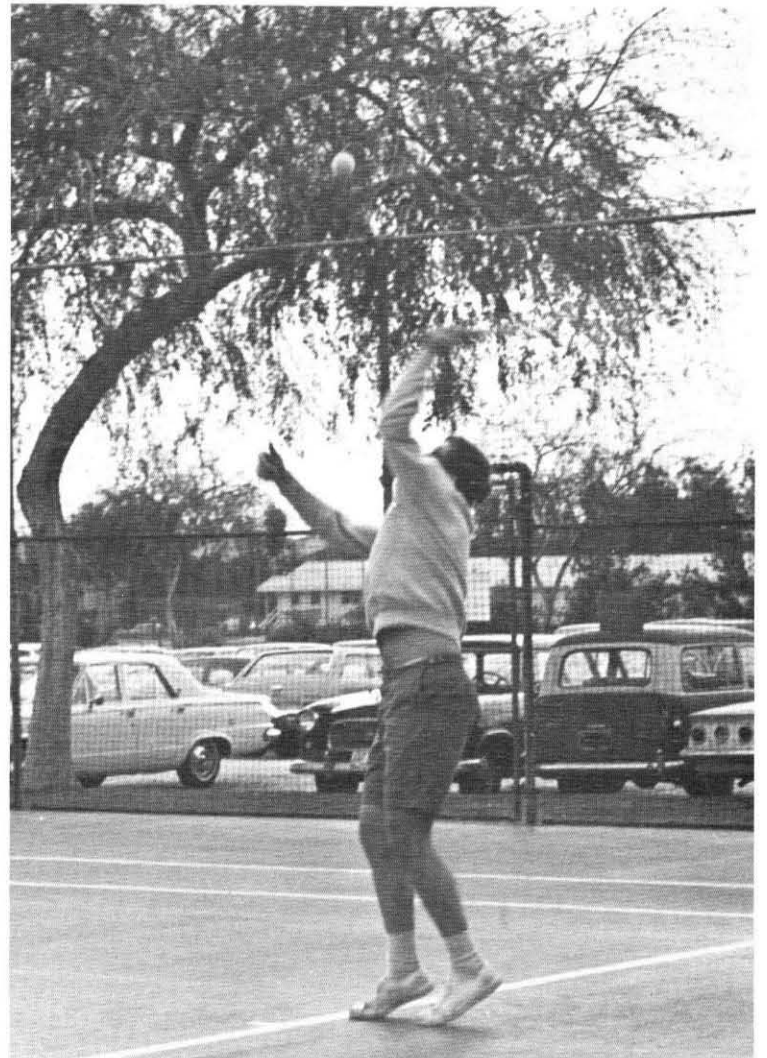
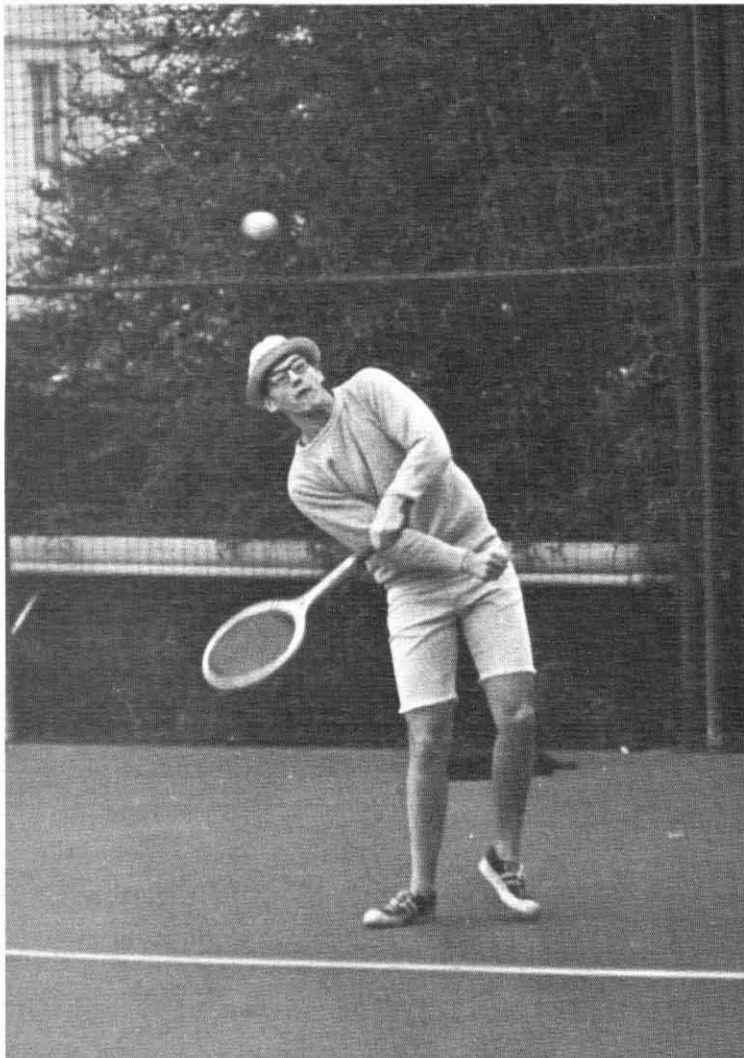
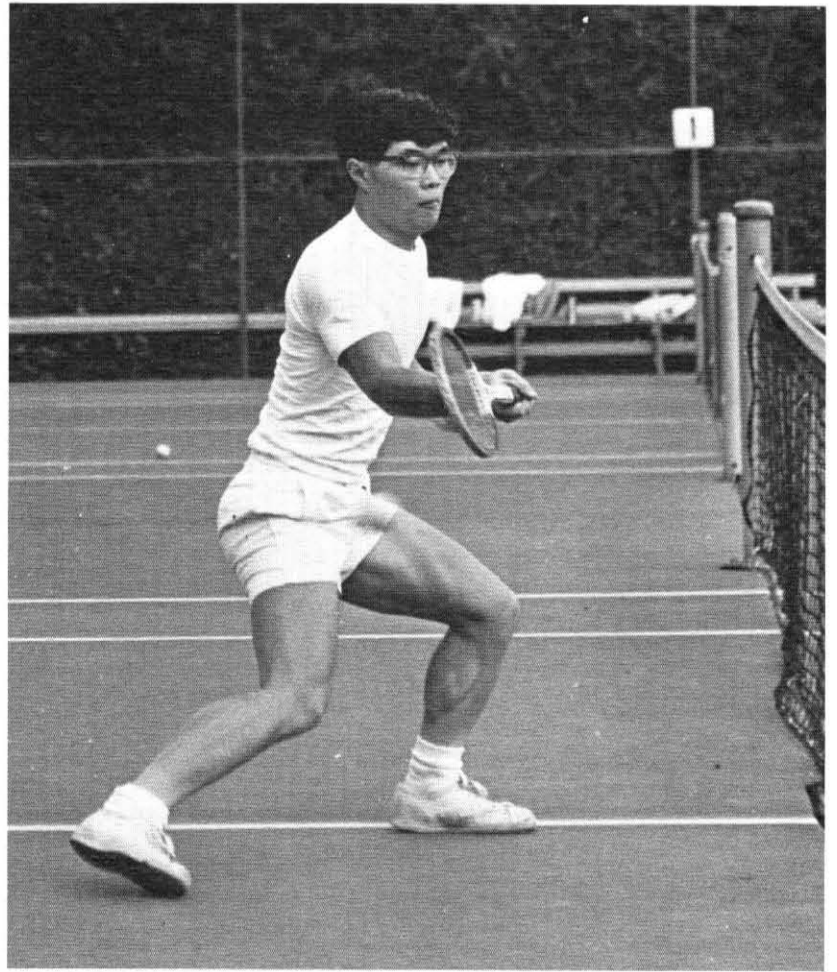
Lloyd had no entrants.



IH TENNIS

FINAL STANDINGS

House		Points
1.	Lloyd	49
2.	Fleming	43
3.	Page	40
4.	Dabney	29
5.	Ruddock	27
6.	Blacker	17
7.	Ricketts	15

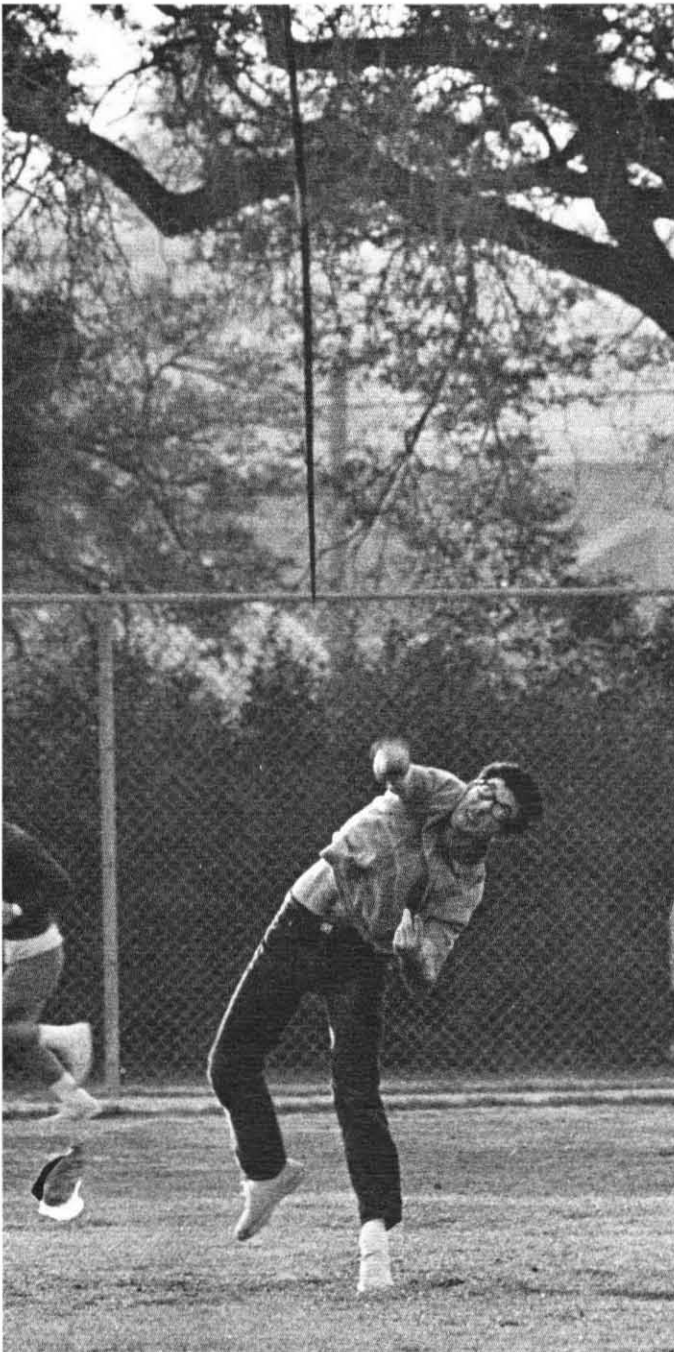


IH TRACK AND FIELD

Fleming and Page dominated the meet which saw Page narrow the gap between them and Fleming in trophy points. In the process, Ron Gregg set a new meet record in the 220 intermediate hurdles to help Page to their victory.

MEET SCORES

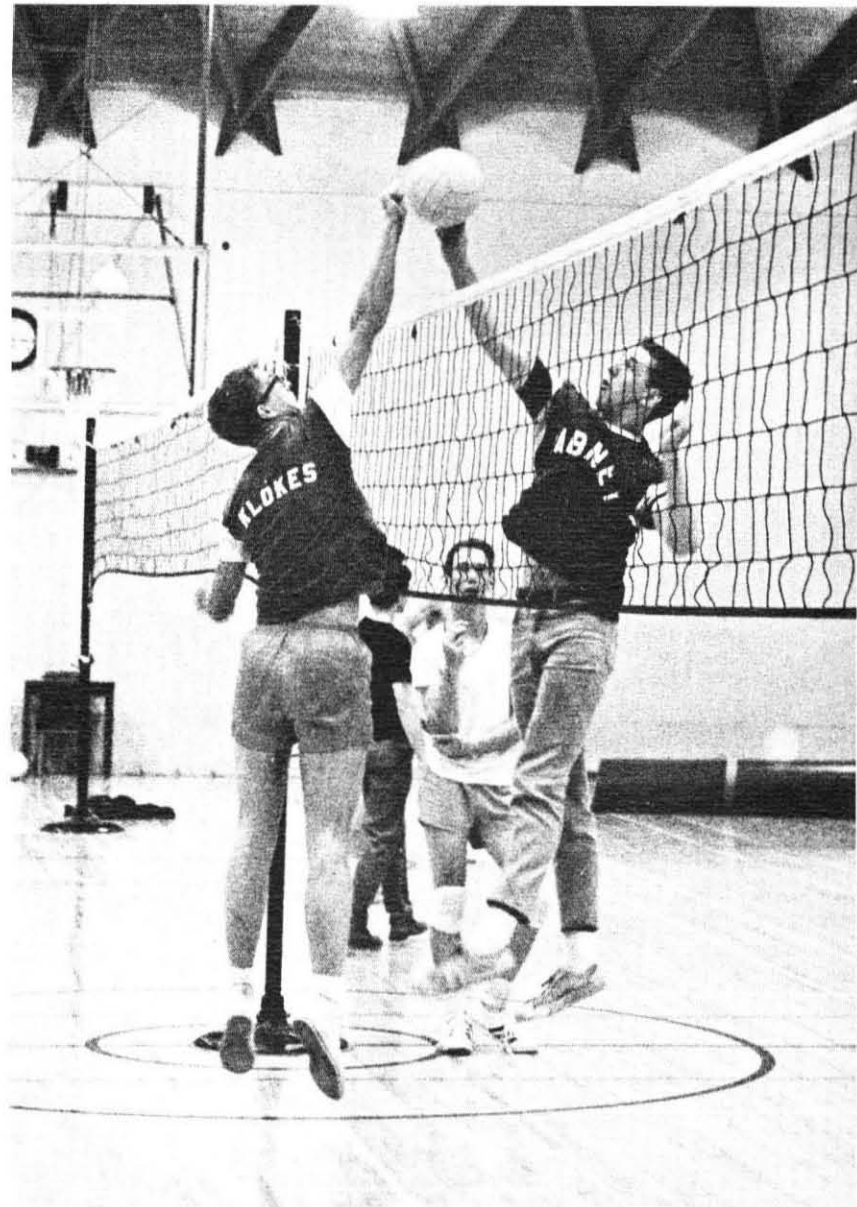
1.	Page	63
2.	Fleming	61½
3.	Ruddock	39
4.	Dabney	26
5.	Ricketts	13½
6.	Lloyd	10
6.	Blacker	10



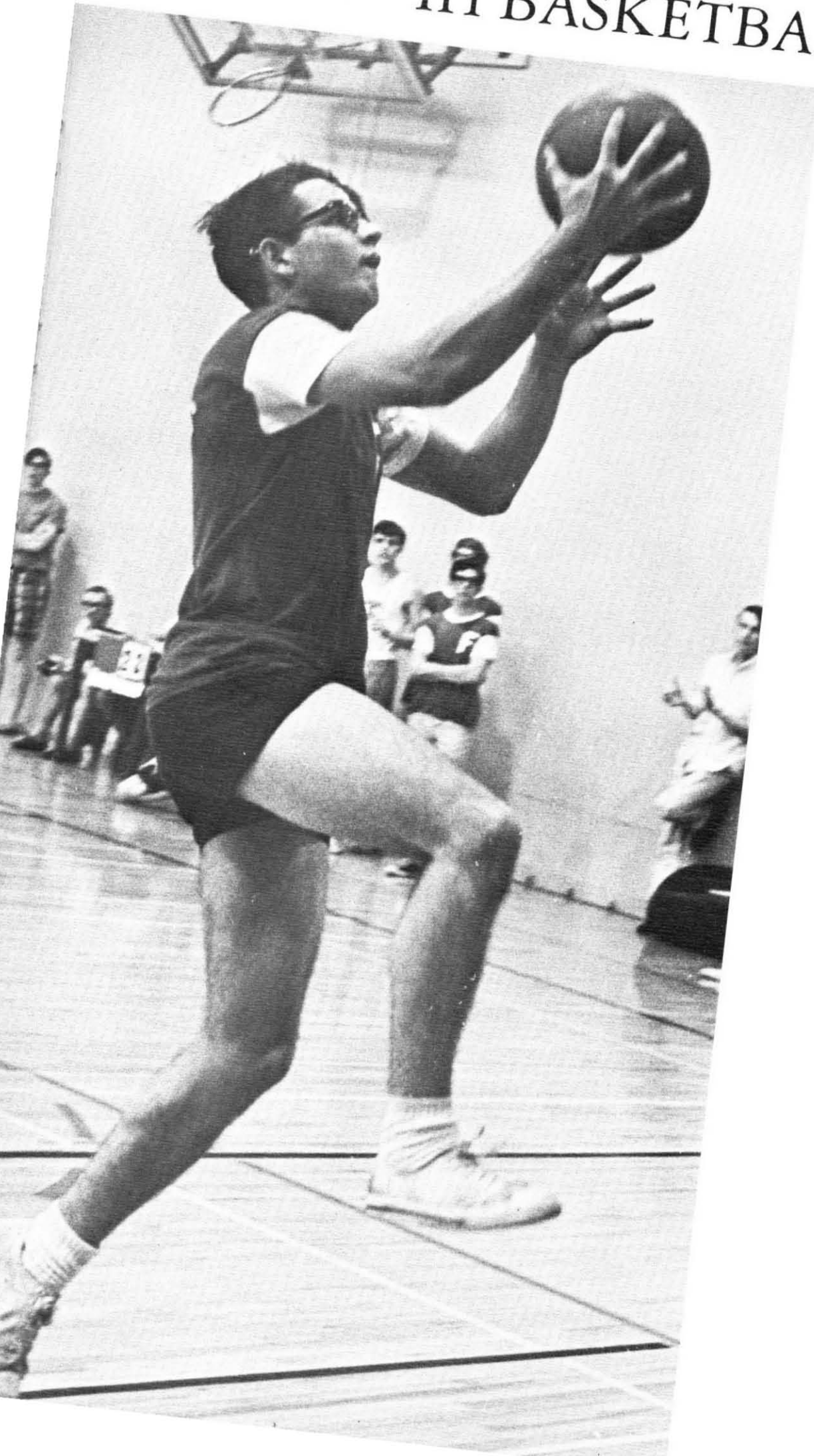
IH VOLLEYBALL

FINAL RESULTS

Place	House	Won	Lost
1.	Page	6	0
2.	Lloyd	5	1
3.	Ricketts	4	2
4.	Blacker	2	4
4.	Dabney	2	4
6.	Fleming	1	5
6.	Ruddock	1	5



IH BASKETBALL



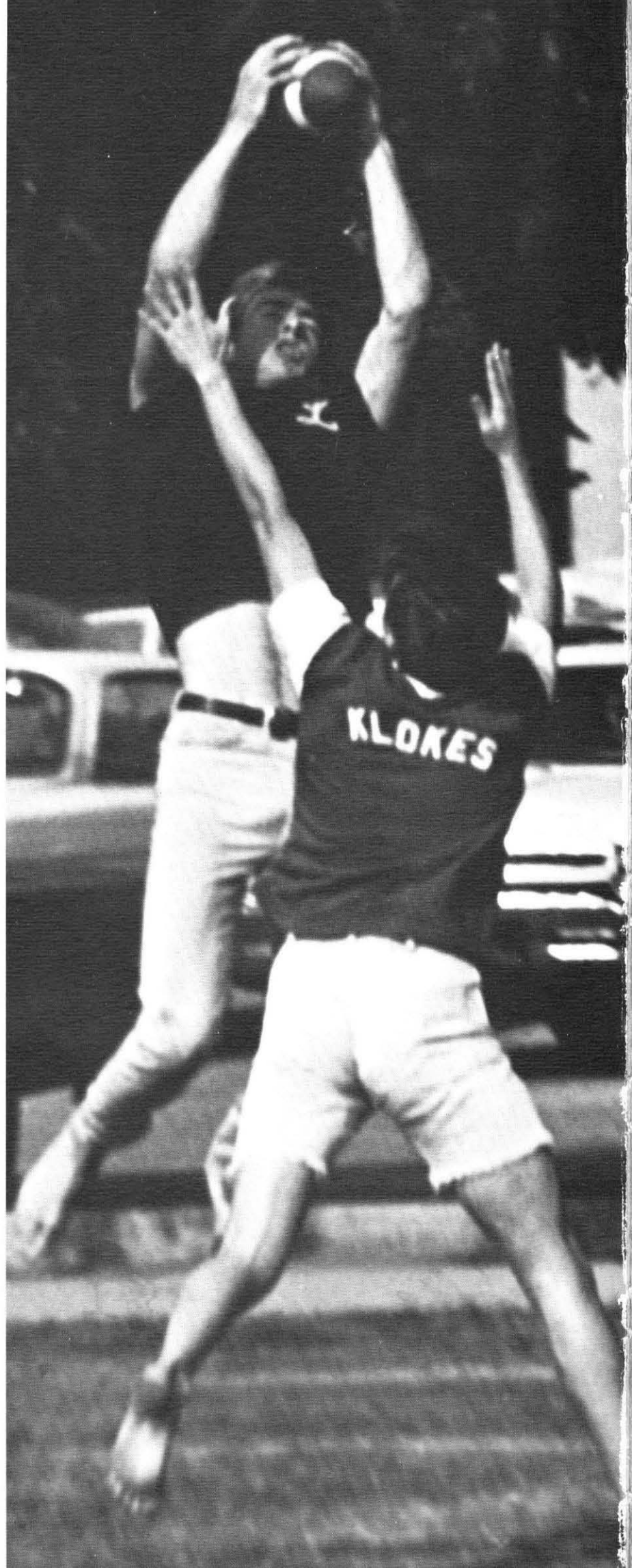
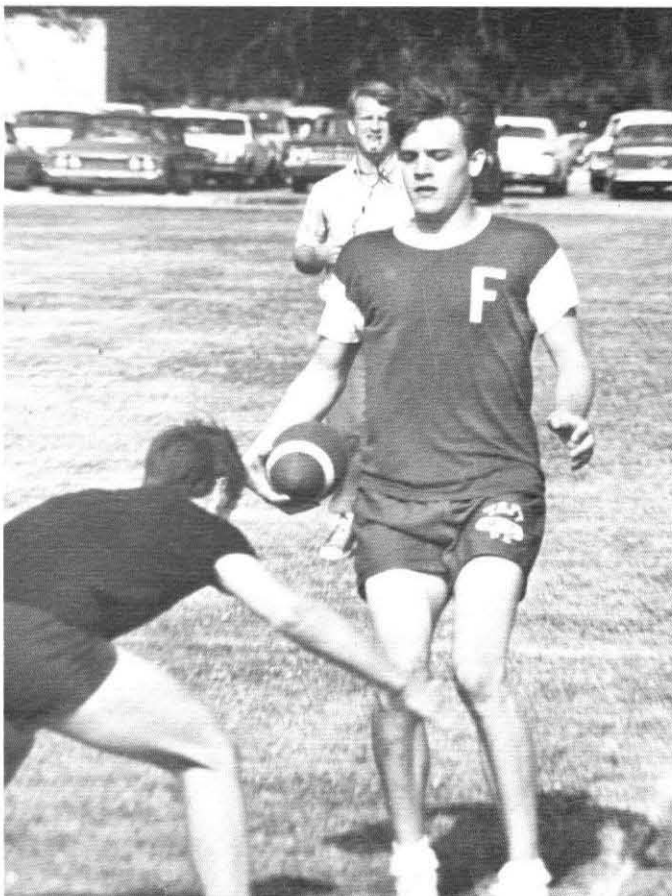
FINAL RESULTS:

Place	House	Won	Lo
1.	Page	6	0
2.	Dabney	4	2
2.	Fleming	4	2
2.	Lloyd	4	2
5.	Ricketts	2	4
6.	Blacker	1	5
7.	Ruddock	0	6

IH FOOTBALL

FINAL RESULTS:

Place	House	Won	Lost	Tied
1.	Page	6	0	0
2.	Fleming	5	1	0
3.	Lloyd	3	2	1
3.	Ricketts	3	2	1
5.	Ruddock	2	4	0
6.	Dabney	1	5	0
7.	Blacker	0	6	0



AND THE WINNER IS . . .

Every year numerous awards are given to the outstanding men on the various teams but they are seldom remembered much beyond the awards banquet. This year is different.

Among the trophies for houses:

VARSITY RATING TROPHY	Ricketts
INTERHOUSE SPORTS TROPHY	Page
DISCOBOLUS TROPHY	Dabney

And for individuals:



WHEATON FOOTBALL TROPHY—Thomas D. Burton

MOST OUTSTANDING PLAYER OF THE SEASON (soccer)—Nelson Briceno

THE COACH'S CUP (water polo)—Henry K. DeWitt, team tri-captain

THOMAS W. LATHAM WRESTLING TROPHY—C. Alan Beagle, team captain

VESPER BASKETBALL TROPHY—Gary C. Koenig

CARL SHY FRESHMAN BASKETBALL TROPHY—Thomas R. Heinz

ALUMNI BASEBALL TROPHY—John A. Frazzini

J. BEN EARL GOLF TROPHY—Neil C. Holmes, team captain

CAMPBELL SWIMMING TROPHY—Henry K. DeWitt, team captain

MOST IMPROVED SWIMMER—Jeffrey D. Rude

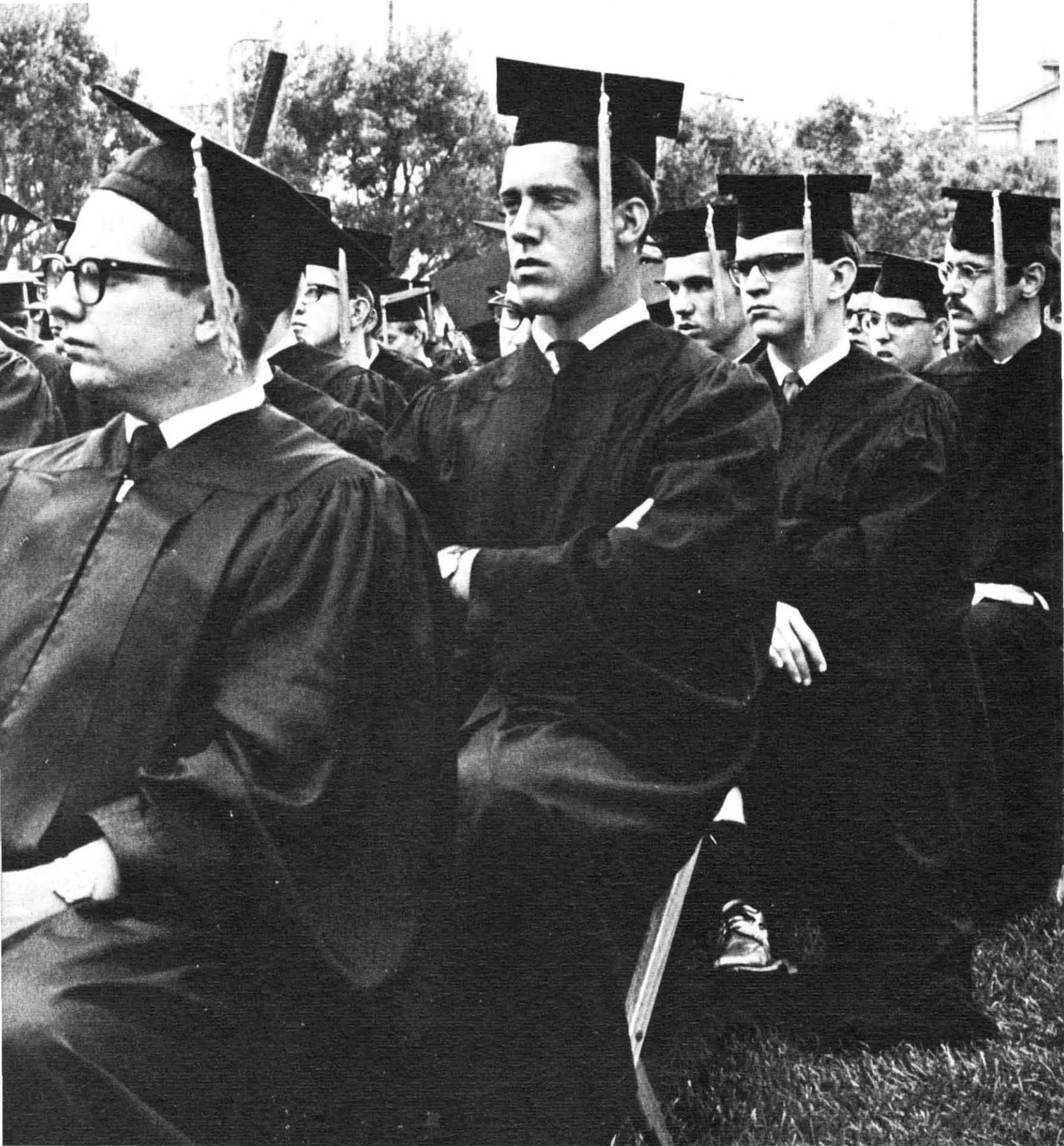
OUTSTANDING DIVER—Steven A. Johnson

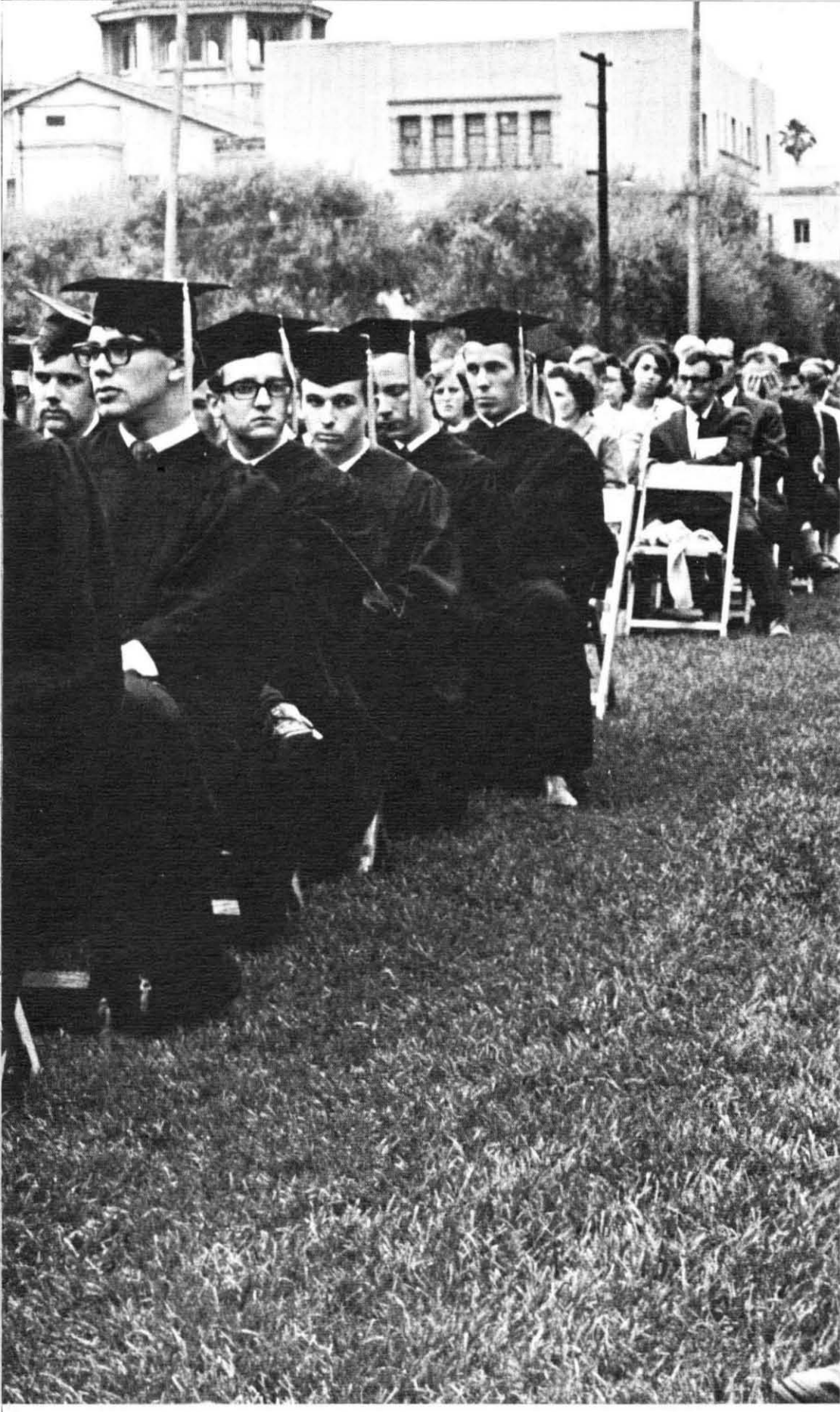
GOLDSWORTHY TRACK TROPHY—James H. Stanley, and Robert E. Tarjan, team co-captains

SCOTT TENNIS TOURNAMENT—Gregory W. Evans

NOVICE TENNIS TOURNAMENT—Randall G. Williams

CALTECH OUTSTANDING ATHLETE—Henry K. DeWitt



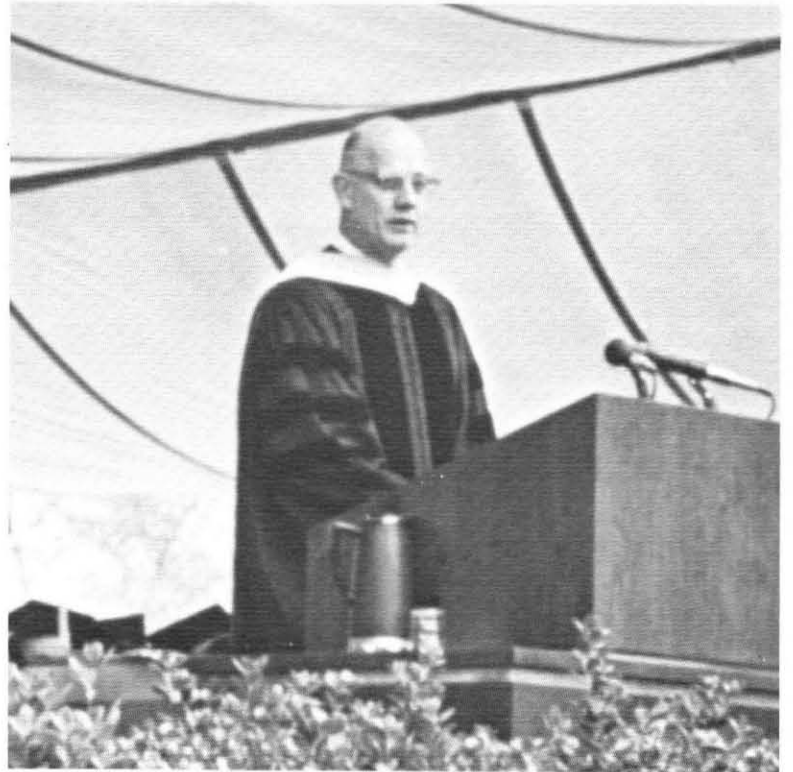


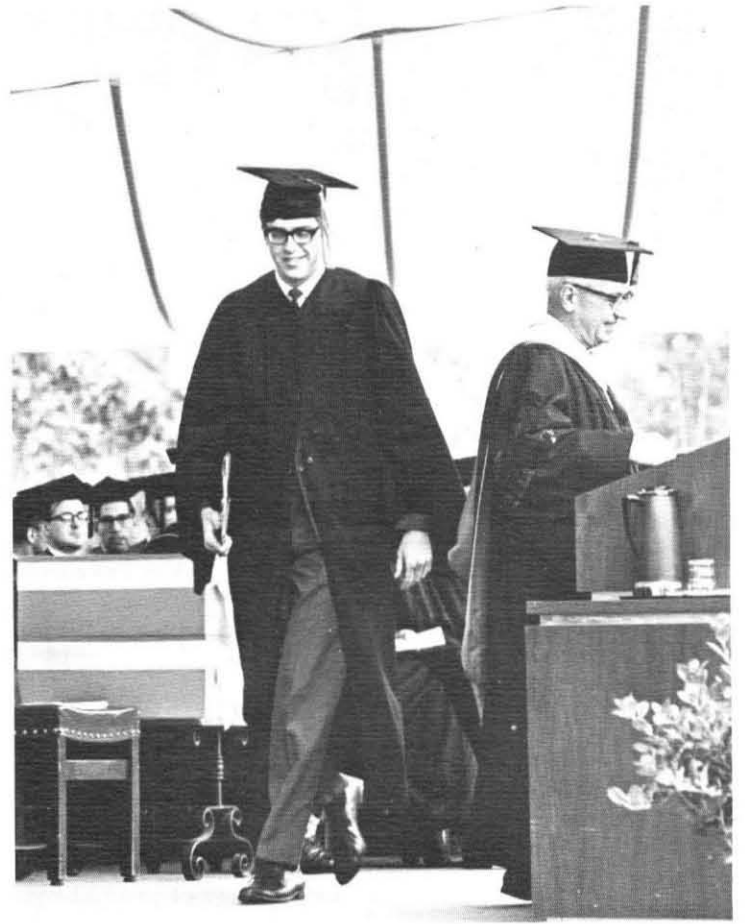
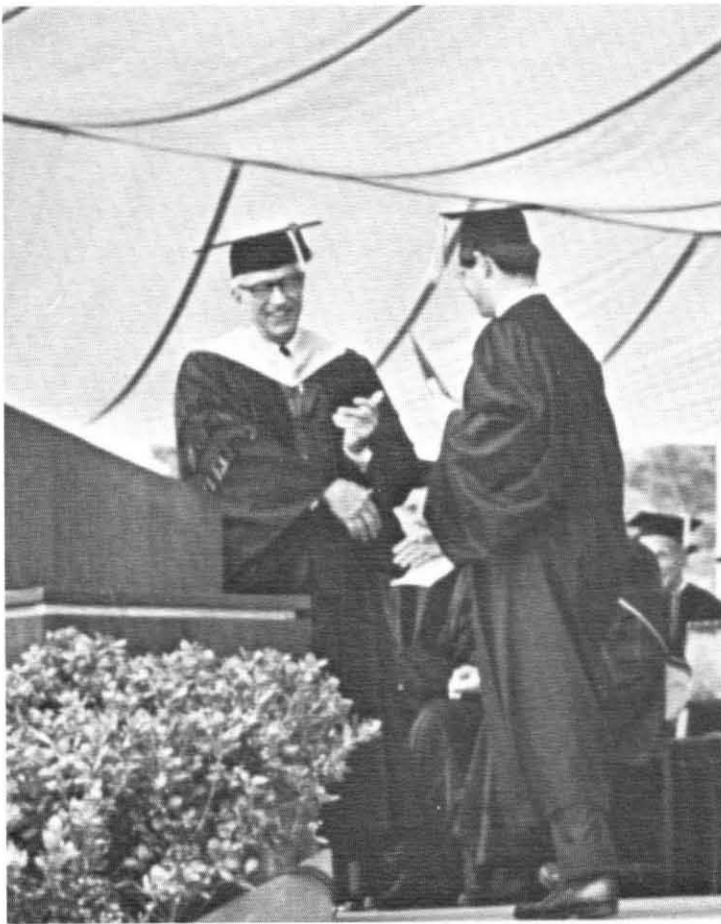
SENIORS

GRADUATION

The Seventy-Fourth Annual Commencement Exercises almost became the first in many years to be rained indoors. Slight sprinkles did not stop until 2:30, and the ceremony was able to take place on the mall in front of Beckman, as planned. 154 Seniors received their Bachelor of Science degree, of which 63 were graduated with honors. There were also 127 Master of Science, 5 Engineer, and 110 Doctor of Philosophy Degrees presented. Dr. Arnold O. Beckman, Chairman of the Board of Trustees presided over the ceremonies, and Dr. Lee A. DuBridge, President of the Institute, conferred the degrees on the graduates. The Commencement Address was given by Dr. Frederick Seitz (shown on the right), President of the National Academy of Sciences on the subject of "Science and Society."

Two special awards were presented at the ceremonies. The first was the George W. Green Memorial Award for Creative Scholarship which was won by three graduating seniors, Douglas Brutlag, Paul Dimotakis, and Brad Holian, and one sophomore, Aki Kanamori. The Frederic W. Hinrichs, Jr., Memorial Award was presented to John Frazzini for service to the student body.





Paul Dimotakis and Brad Holian receiving the George S. Green Memorial Award.



CLASS OF 1968

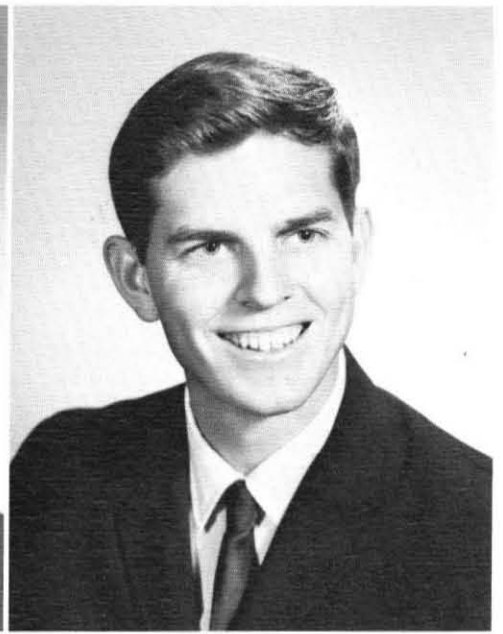
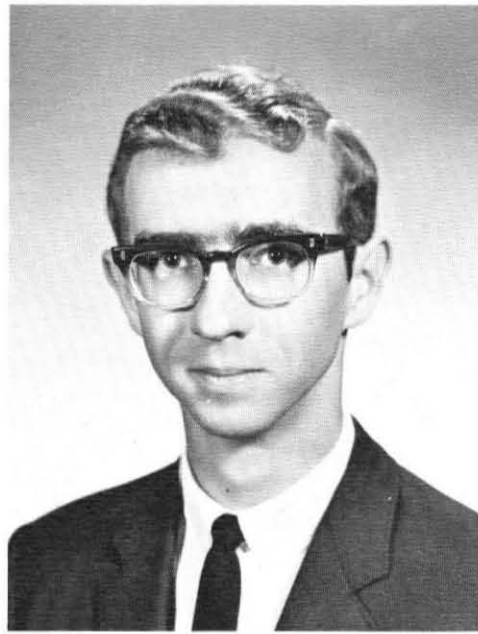


Senior Class officers Greg Brewer, President, Dave Shirley, Vice-President, and Ed Seguire, Secretary hard at work, which explains why Rich Flammang, Treasurer, is not there.

The Class of 1968, the first class not to have grades as freshmen, lovingly look back to those happy days, thankful to the class of 1967, which made it all possible. Despite predictions to the contrary, the class seems to have come through that horrible fate without serious injury. Each year further steps were taken to improve the educational system of the Institute. Things are still not perfect, but they will approach that when undergraduate women are admitted, probably in 1970. The Class of 1968 is proud to have had a hand in these changes, and hopes that life at Caltech continues to improve, even without our presence.

This class continued the newly established tradition that the frosh win the Mudeo. The class, through its officers, has handled the usual work load involved in the planning of Lost Weekend. The search is now on for an inexpensive class gift which will be remembered forever, a fitting honor for the class.

BRUCE W. BAILLIE
BLACKER EN



ROBERT L. BELL
BLACKER PH



RICHARD W. BILD
FLEMING CH

PETER B. BENDIX
RUDDOCK PH

PETER S. BLOOMFIELD
RICKETTS EC



KELLOGG S. BOOTH
BLACKER MA



PAUL S. BRANDON
RUDDOCK EC



GREGORY J. BREWER
RUDDOCK BI

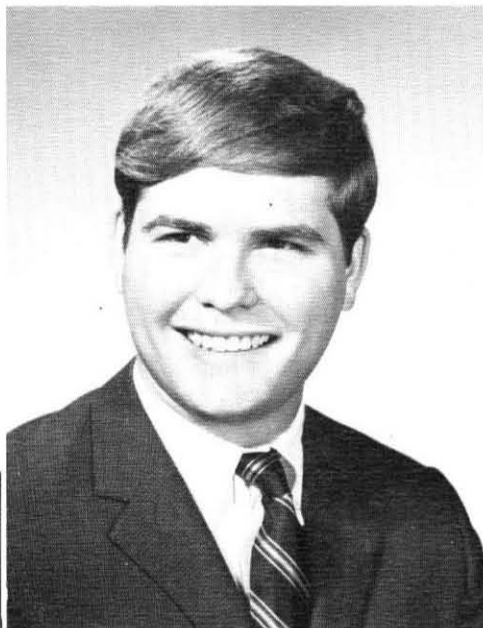
JOHAN M. BRINCH
BLACKER ENG



TERRY R. BRUNS
RUDDOCK GEOPH



DOUGLAS L. BRUTLAG
RUDDOCK BI



ROBERT L. BUNKER
OFF CAMPUS ENG



ROBERT D. CAMPBELL
LLOYD CH



MICHAEL A. CASTEEL
PAGE PH

ROBERT NAI-YOUNG CHAN
LLOYD PH



DANIEL PAN YIH CHANG
RICKETTS ENG



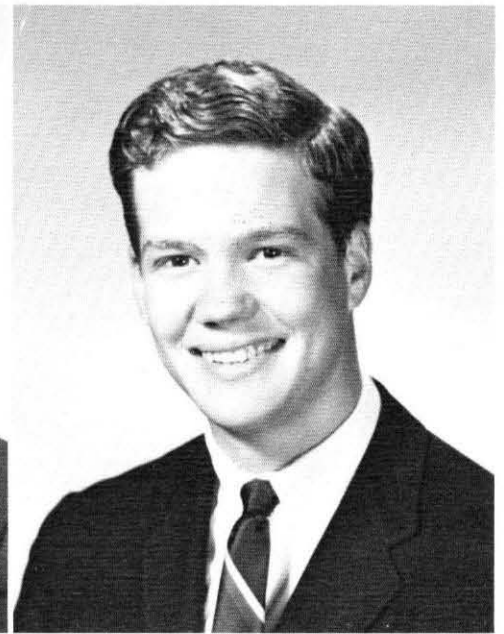
DAVID CHANG
FLEMING PH



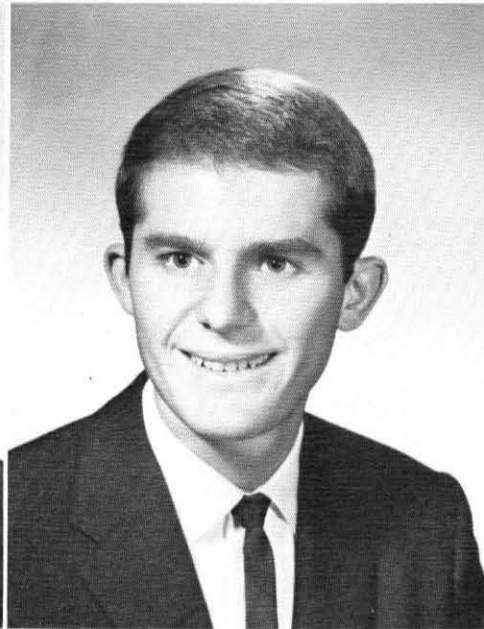
EDWARD J. CHAPYAK
RUDDOCK ENG



RANDALL B. COOK
PAGE CH



PETER S. CROSS
DABNEY ENG

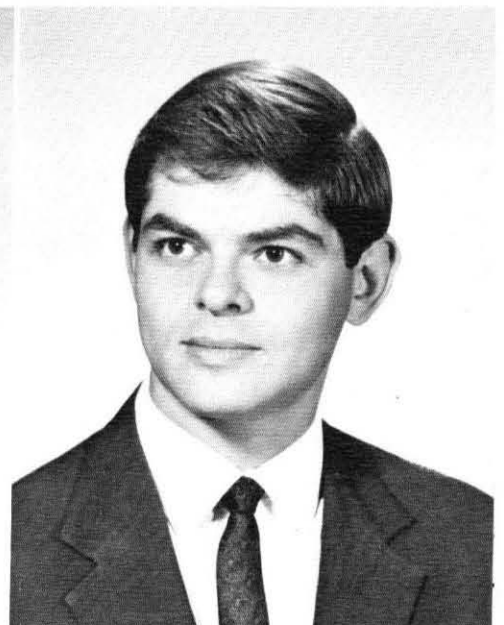


ERNO S. DANIEL
RUDDOCK CH

ROGER A. DAVIDHEISER
FLEMING PH

HENRY K. DeWITT
BLACKER MA

PAUL E. DIMOTAKIS
PAGE PH



PHILIP DOBERNE
RICKETTS MA



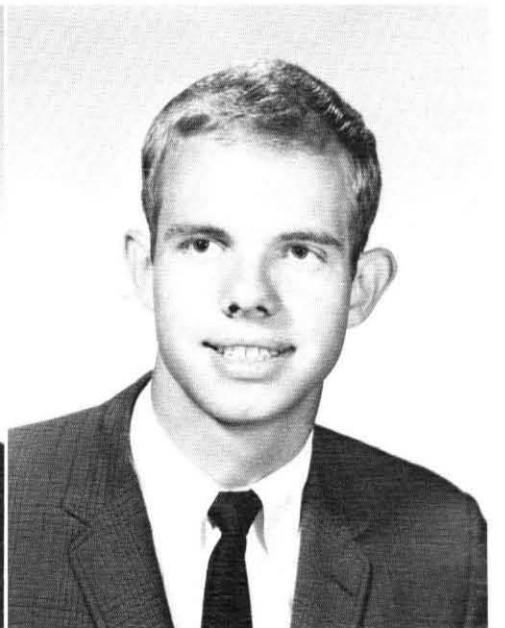
JAMES E. DOWNUM
BLACKER PH



RICHARD E. DREWS
BLACKER EN

RONALD P. DRUCKER
PAGE CH

DENIS A. ELLIOTT
RICKETTS AY



LEONARD A. ERICKSON
DABNEY BI

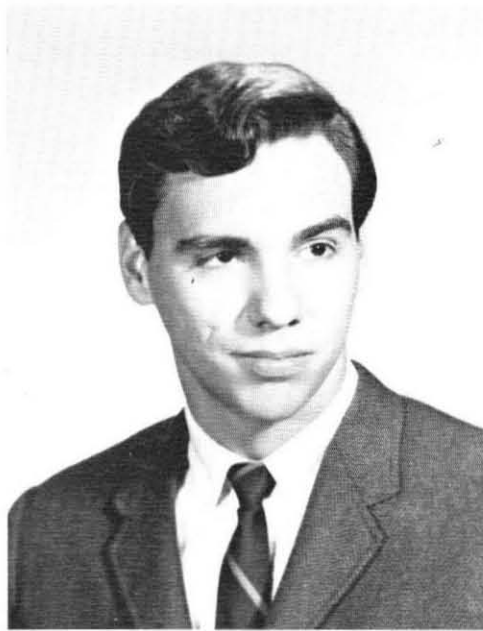


DAVID C. ERlich
BLACKER PH

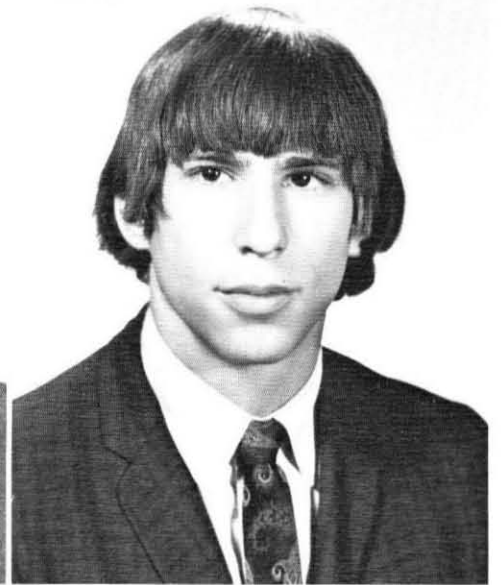


AARON L. FELDER
PAGE MA

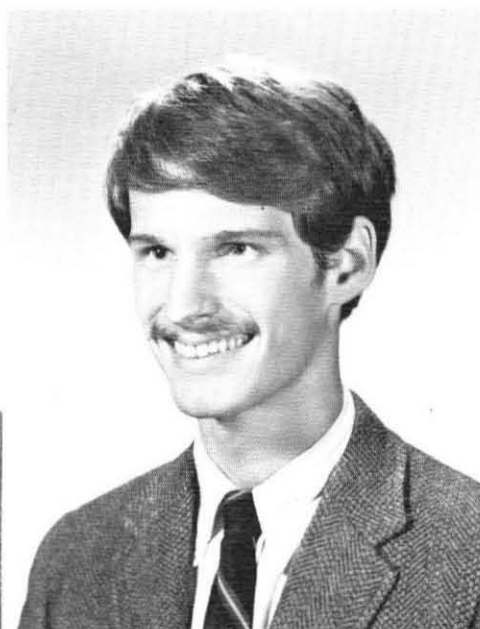
LESTER A. FETTIG
RUDDOCK ENG



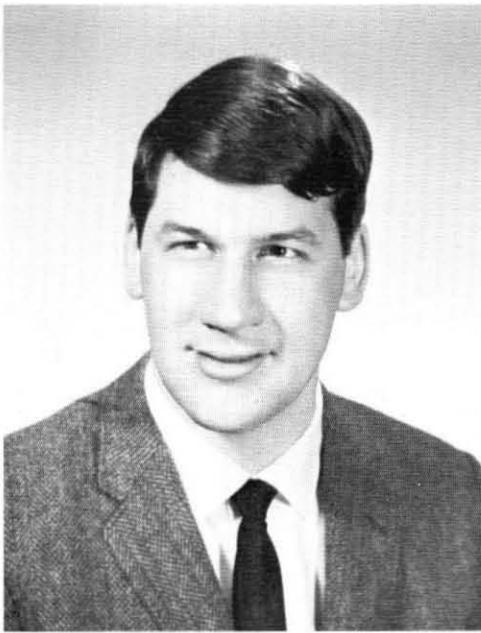
ROBERT S. FIRESTONE
PAGE BI



LESLIE G. FISHBONE
LLOYD PH



RICHARD A. FLAMMANG
FLEMING PH



MARTIN R. FLANNERY
FLEMING PH

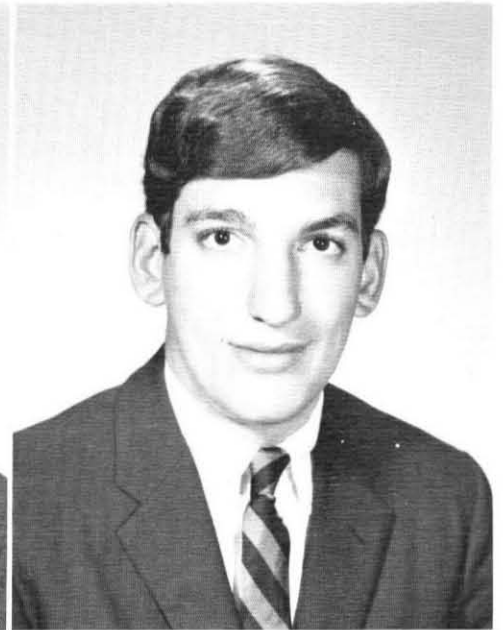


CURTIS L. FRANK JR.
RICKETTS ENG

JOHN A. FRAZZINI
PAGE PH



CARL A. FRIEDLANDER
RUDDOCK EN



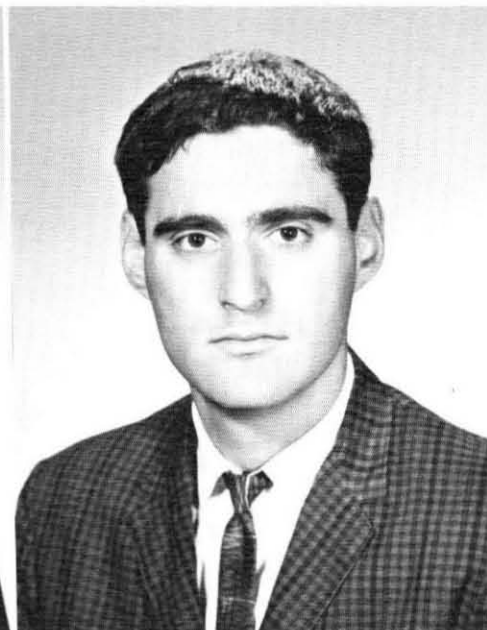
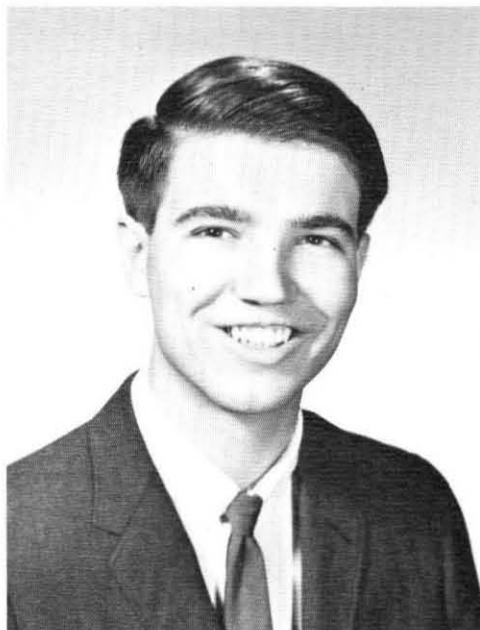
KEN GARBADE
BLACKER PH



ERIC R. GAREN
DABNEY ENG



GARY L. GODFREY
PAGE PH



STUART R. GOODGOLD
BLACKER MA



DONALD R. GORAL
PAGE MA

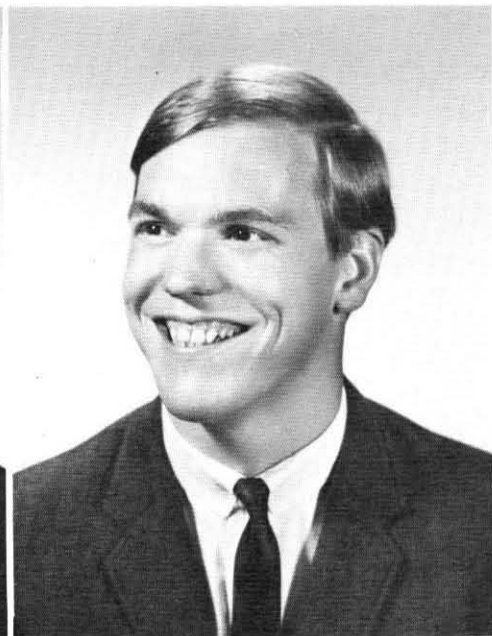
BARTON J. GORDON
RUDDOCK ENG

ROBERT E. GRANT
DABNEY

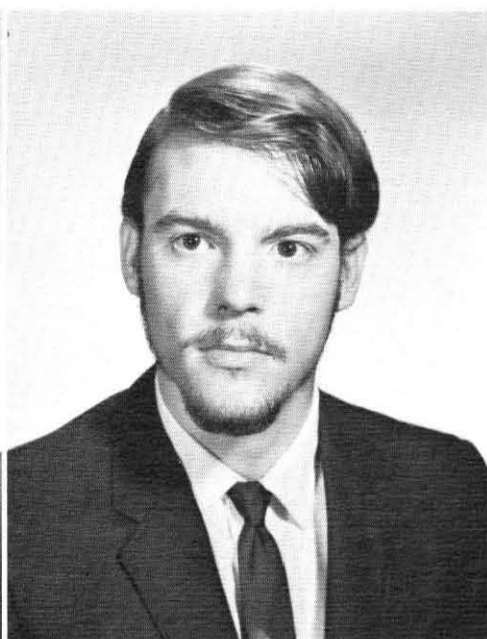
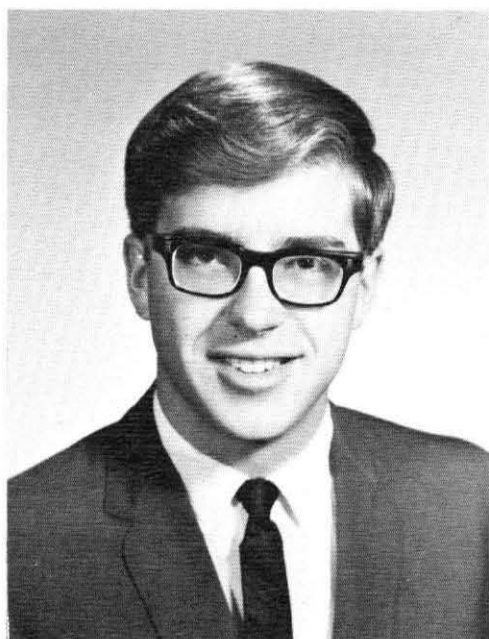
EDWARD J. GROTH III
RICKETTS PH



GREGORY S. HARKNESS
LLOYD PH



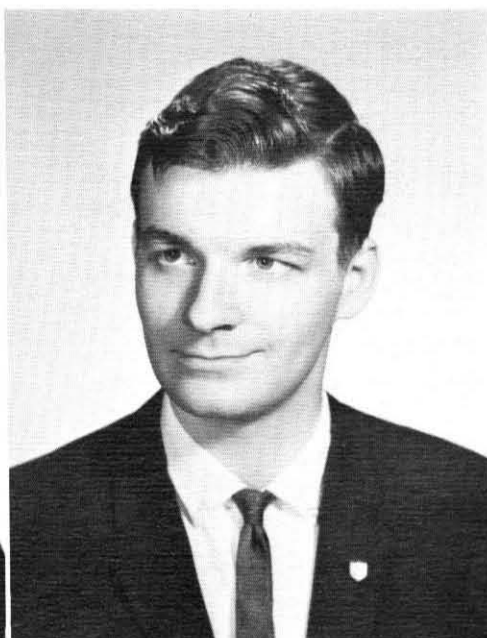
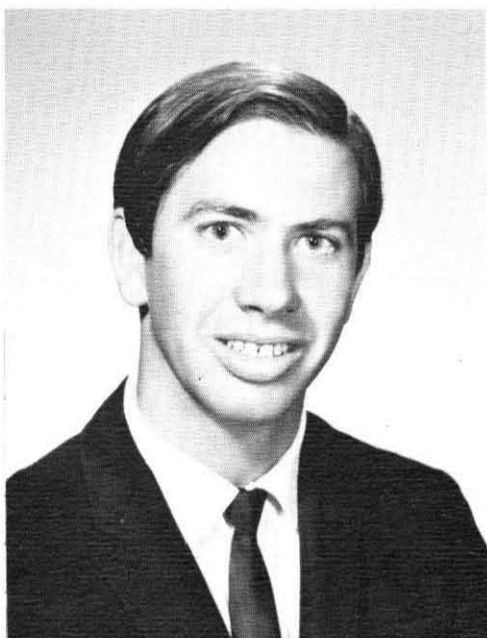
JON R. HAVILAND
BLACKER ENG



BRAD L. HOLIAN
BLACKER CH

FREDERICK J. HOLLANDER
LLOYD CH

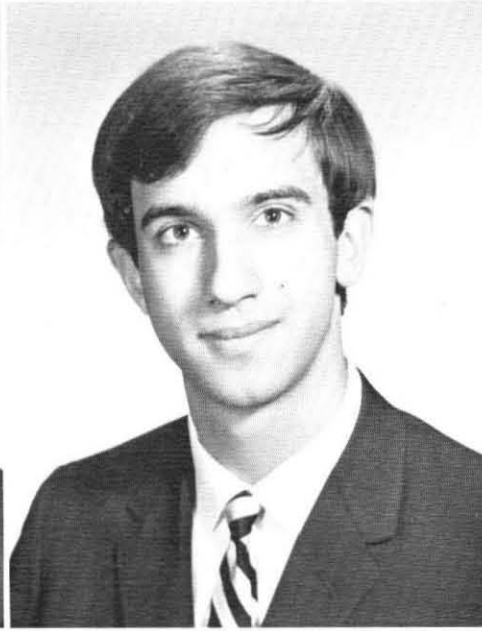
JAMES C. HUNTER
DABNEY CH



DAVID L. ISAMAN
PAGE ENG

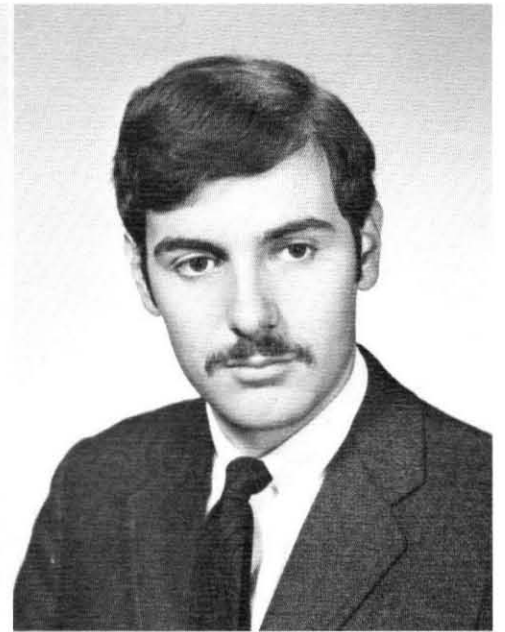


CLAYTON W. JACOBSEN
LLOYD CH



WALTER J. JAFFE
RICKETTS AY

VINCENT R. JOHNS
BLACKER MA



PATRICK D. KIDD
DABNEY CHE



DAVID A. KOLB
PAGE CH



GREGORY N. KOURILSKÝ
RICKETTS MA

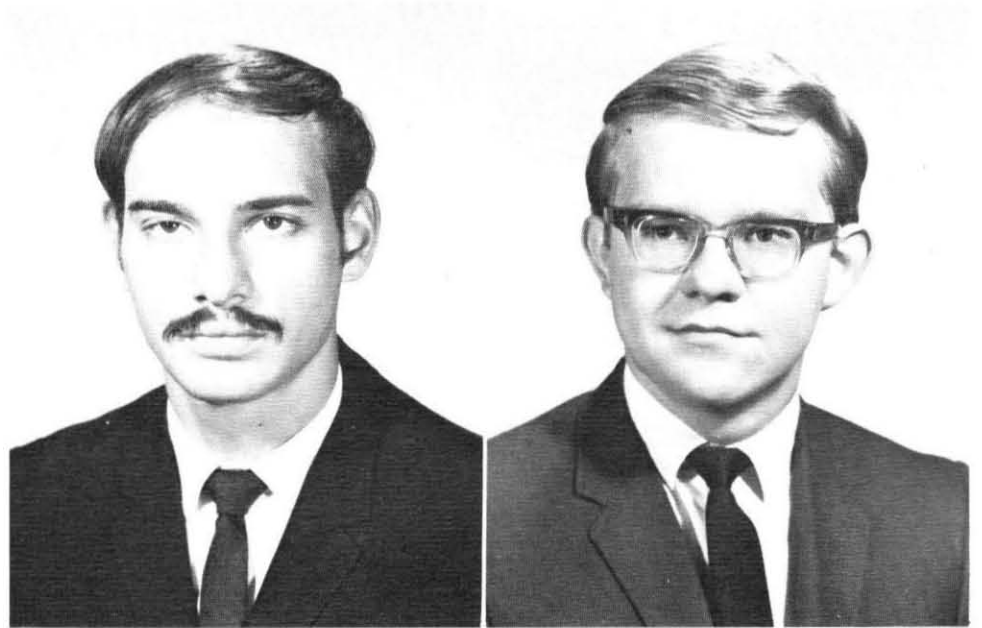


KERMIT R. KUBITZ
FLEMING EC

STEVEN B. LANDY
LLOYD PH

ALLEN D. LEE
RUDDOCK ENG

JOHN M. LEHMAN
DABNEY ENG



JEFFREY S. LEON
FLEMING MA

ROCK S. LEVINSON
PAGE BI



BARRY R. LIEBERMAN
RUDDOCK PH



RICHARD G. LIGON
OFF CAMPUS MA

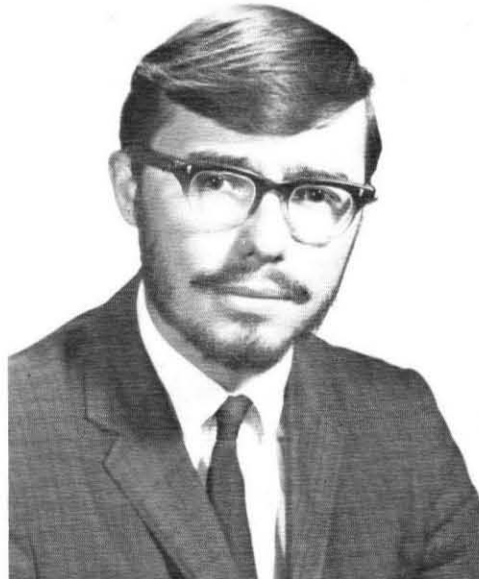


SAMUEL LOGAN
RICKETTS ENG

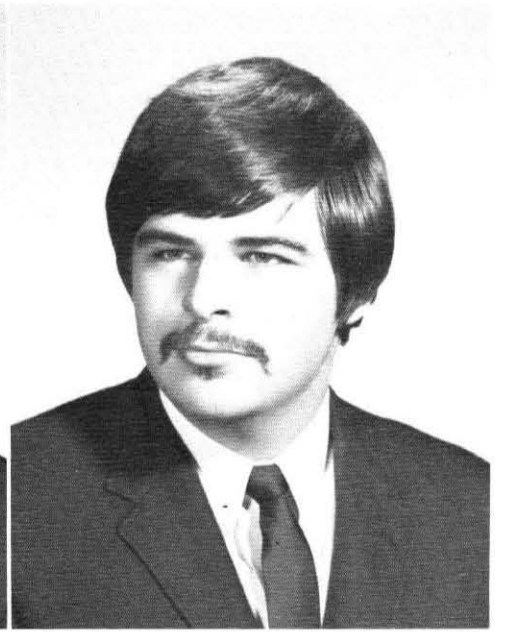
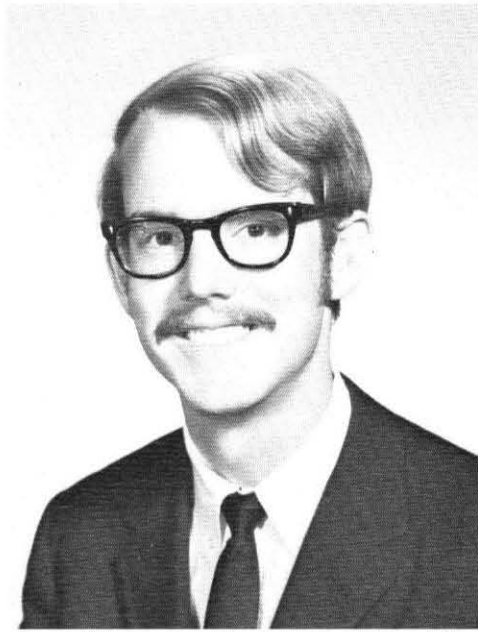
SALI GEE-CHUNG MA
BLACKER ENG

DAVID M. MacKENZIE
PAGE ENG

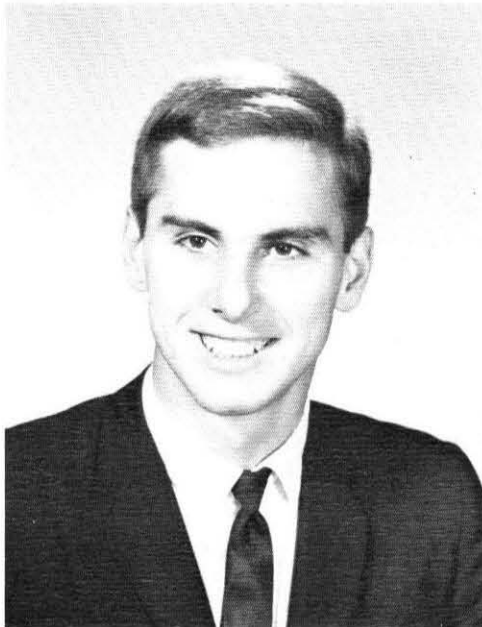
DAVID F. MACY
PAGE ENG



WILLARD G. MANNING
DABNEY EC



ROBERT M. MATTHEYSES
RICKETTS ENG

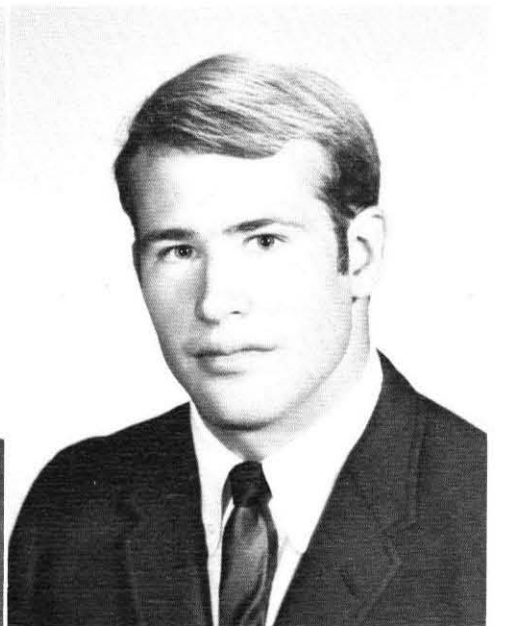
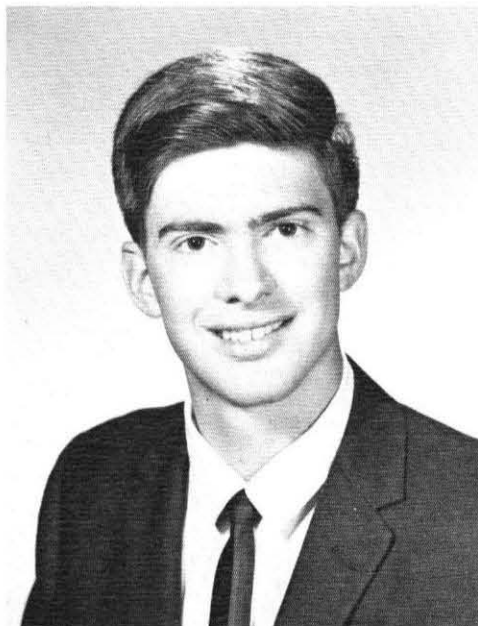


CRAIG D. MAXWELL
PAGE PH

CRAIG J. McALLISTER
LLOYD CH

JOHN W. McKENZIE
LLOYD PH

JAMES C. McWILLIAMS
RUDDOCK ENG





MICHAEL MEO
LLOYD AY



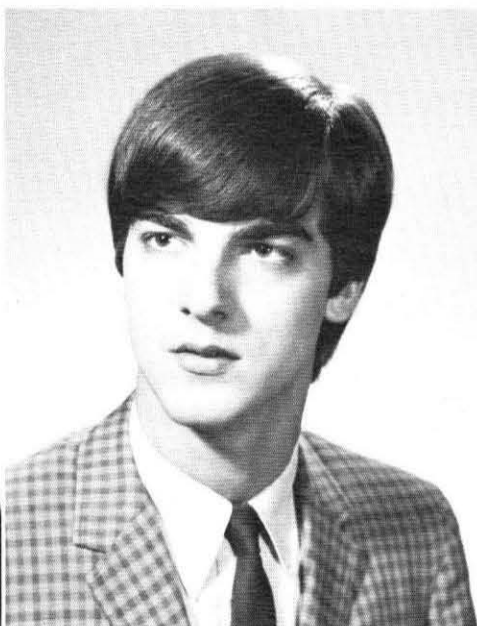
JOHN MIDDLEDITCH
LLOYD PH

RICHARD A. NORMAN
OFF CAMPUS ENG

STANLEY C. NELSON
RICKETTS PH



GARY S. NIX
LLOYD PH



SPENCER G. PEARSON
LLOYD ENG



GREGORY G. PIHOS
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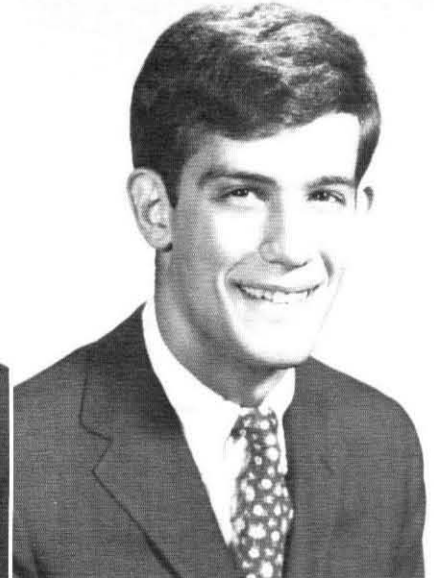


WALLY E. RIPPEL
OFF CAMPUS PH

PETER A. RUMSEY
RICKETTS MA



CRAIG L. SAN PIETRO
DABNEY ENG

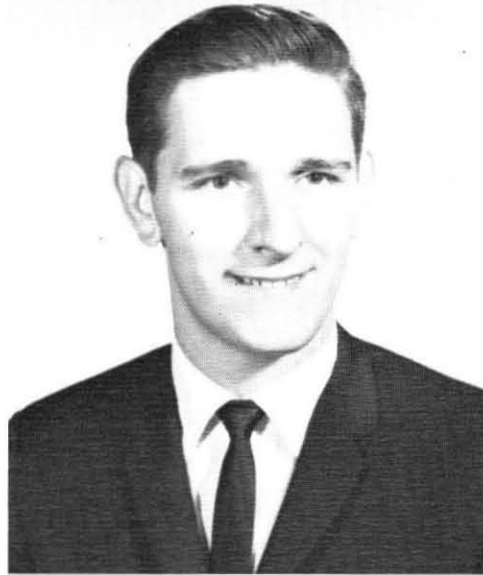


NORMAN J. SCHOFIELD JR.
RUDDOCK PH



MARSHALL I. SCHOR
BLACKER ENG

ALLEN J. SCHWENK
DABNEY MA



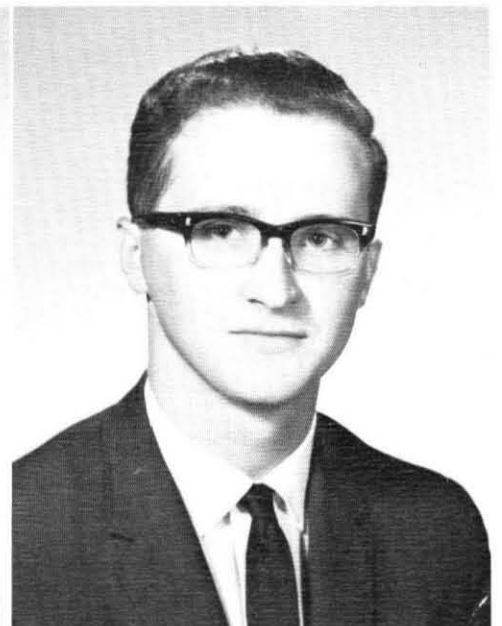
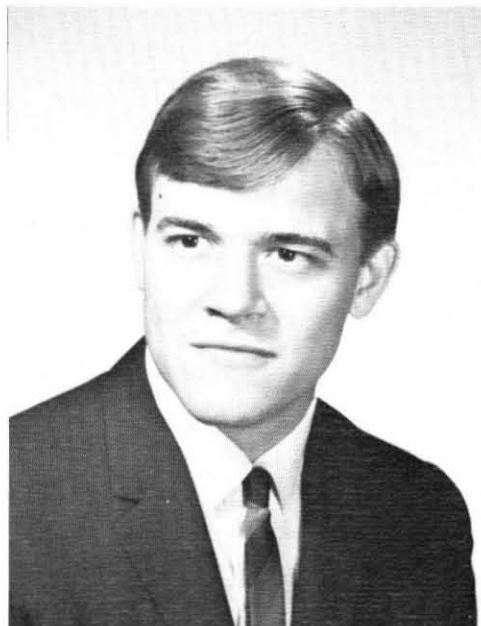
EDWARD S. SEGUINE
RUDDOCK CHE



DAVID J. SHIRLEY
BLACKER MA

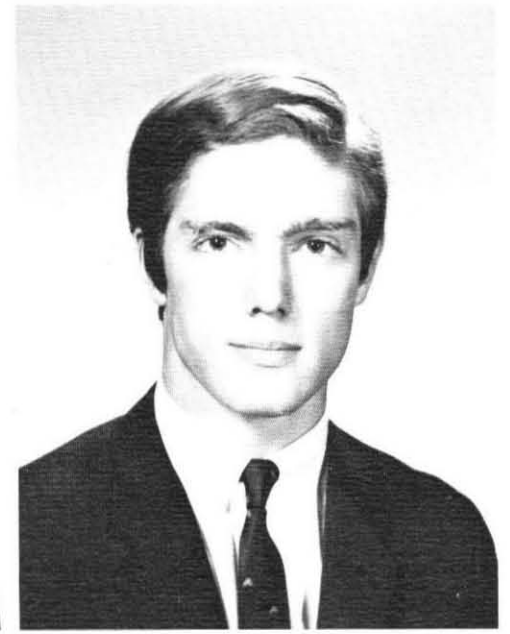
THOMAS B. SOIFER
RICKETTS PH

JAMES H. STANLEY
FLEMING PH



ROBERT E. STARRETT
PAGE ENG

JOHN C. STEVENS
PAGE PH



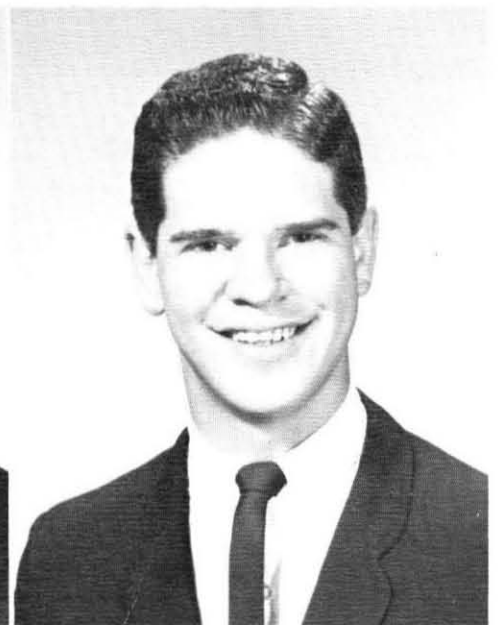
VAN D. STOECKER
RUDDOCK MA



ROBERT B. STOKES
RICKETTS ENG

HARRY B. THACKER JR.
RUDDOCK PH

EDWARD F. THOMPSON
RUDDOCK ENG



GREGORY A. THOMPSON
PAGE CH



GEORGE K. TUCKER
OFF CAMPUS ENG

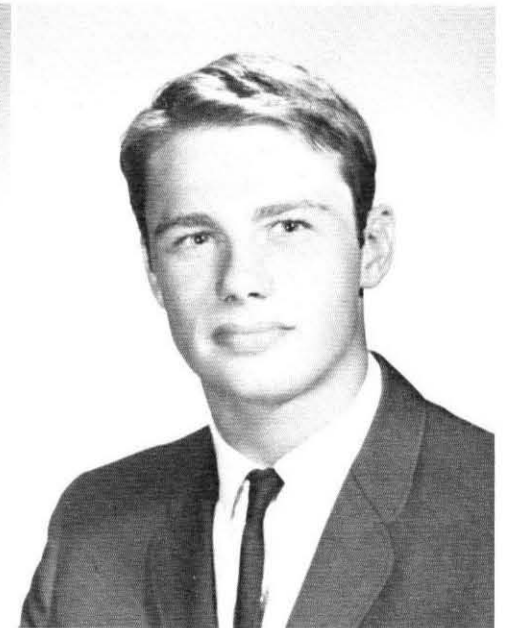


JOHN F. WALTERS
FLEMING BI

EARL G. WHITEHEAD JR.
FLEMING MA



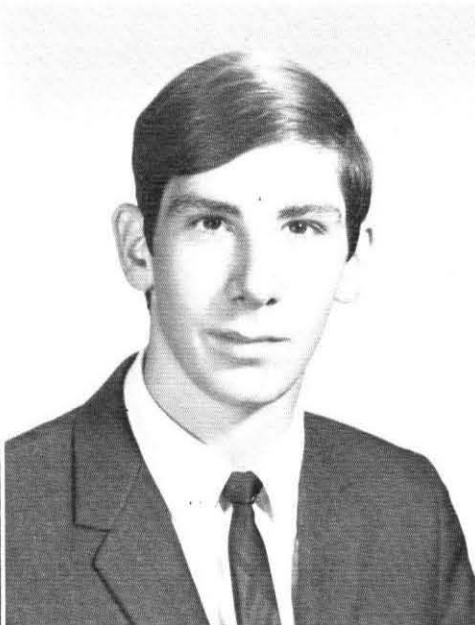
NORMAN M. WHITELEY
LLOYD CH

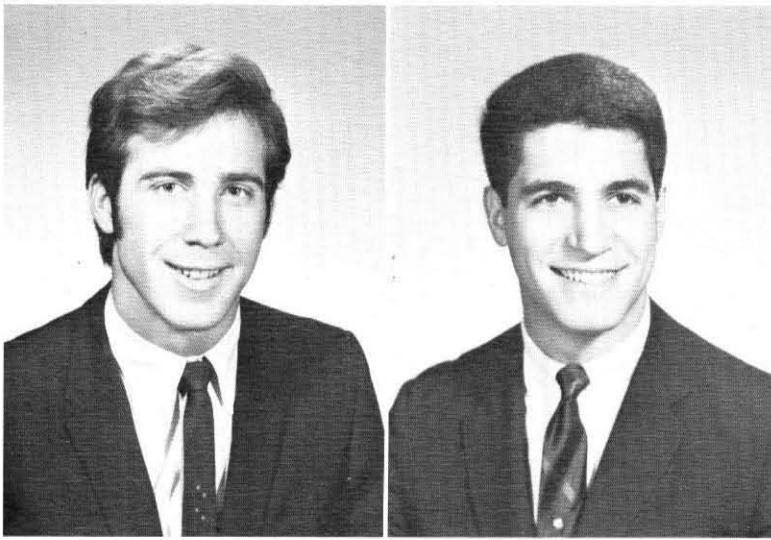


ERIC WICKSTROM
RICKETTS BI



JOHN R. WILSCHKE
FLEMING ENG





THOMAS R. WILSON
OFF CAMPUS EN

CHARLES A. WOLFE
FLEMING ENG

JAMES A. WOODHEAD
LLOYD GE

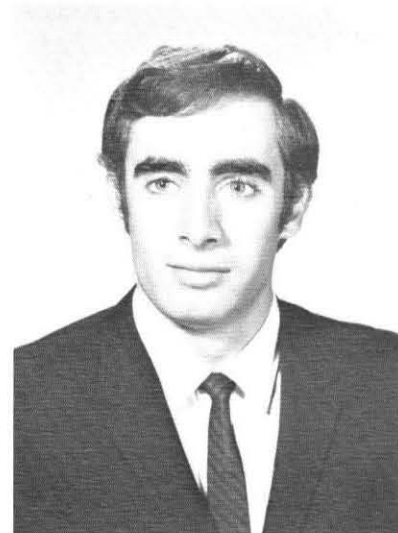
WILLIAM A. WRIGHT
RUDDOCK GE



NEIL R. WRIGHT
RUDDOCK EC

KENNETH T. YANO
FLEMING ENG

CHARLES P. ZELLER
DABNEY ENG







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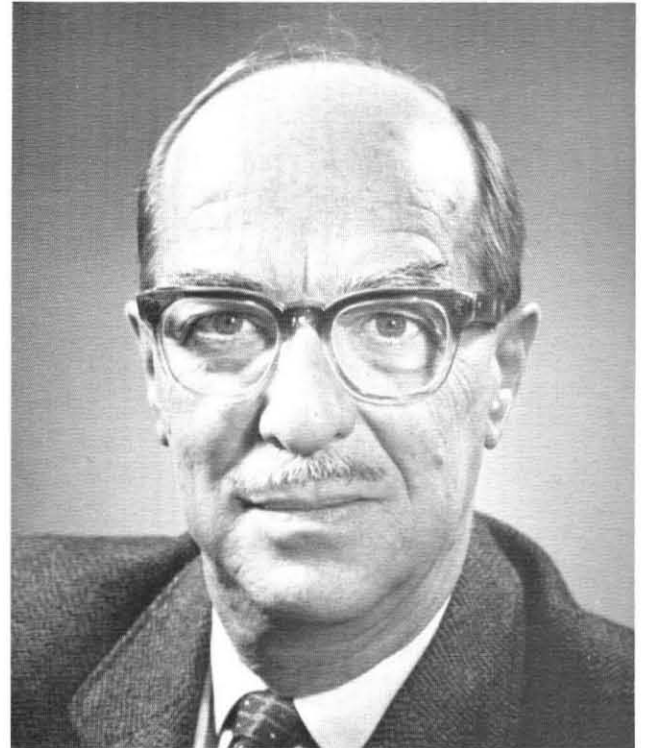


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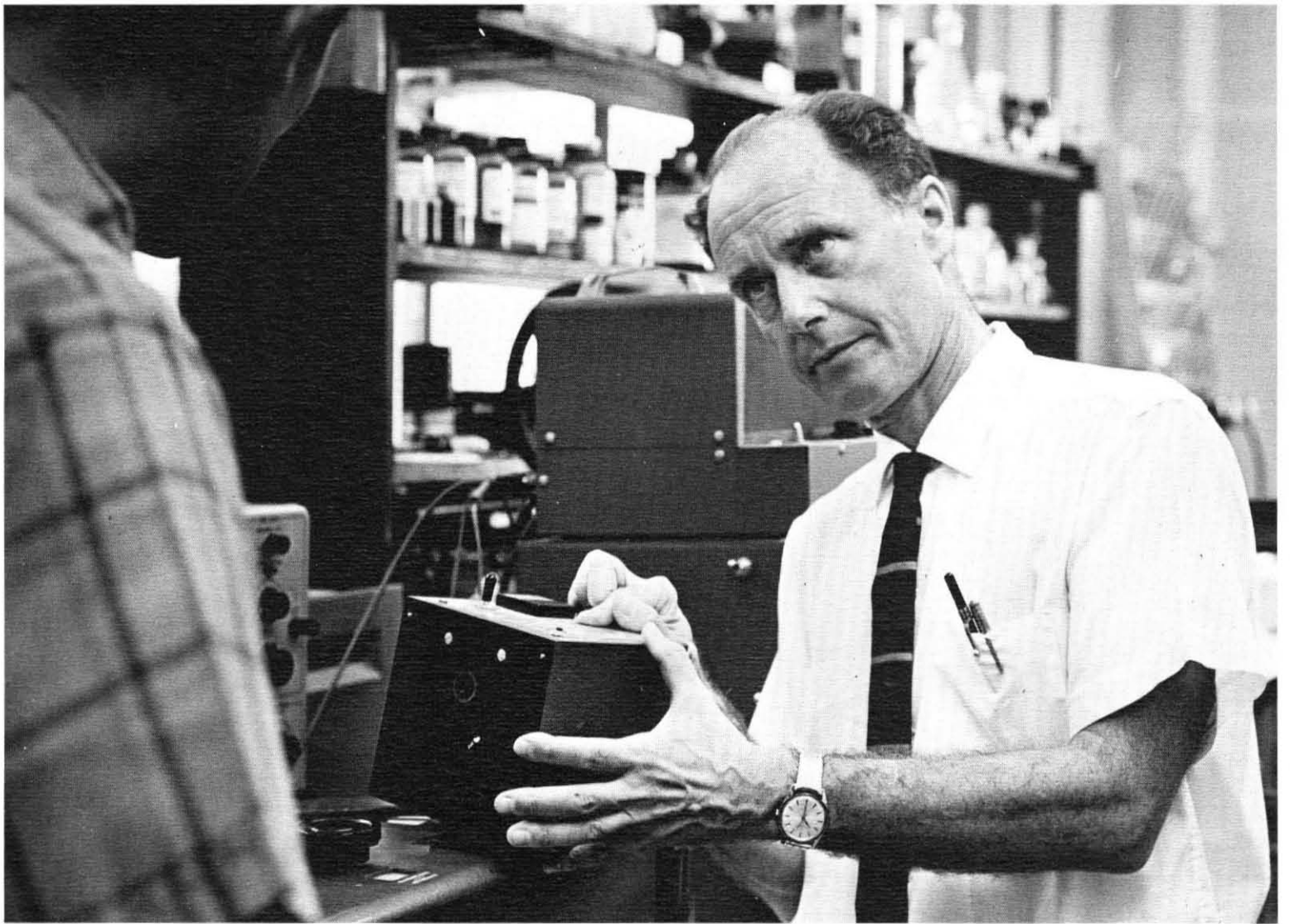
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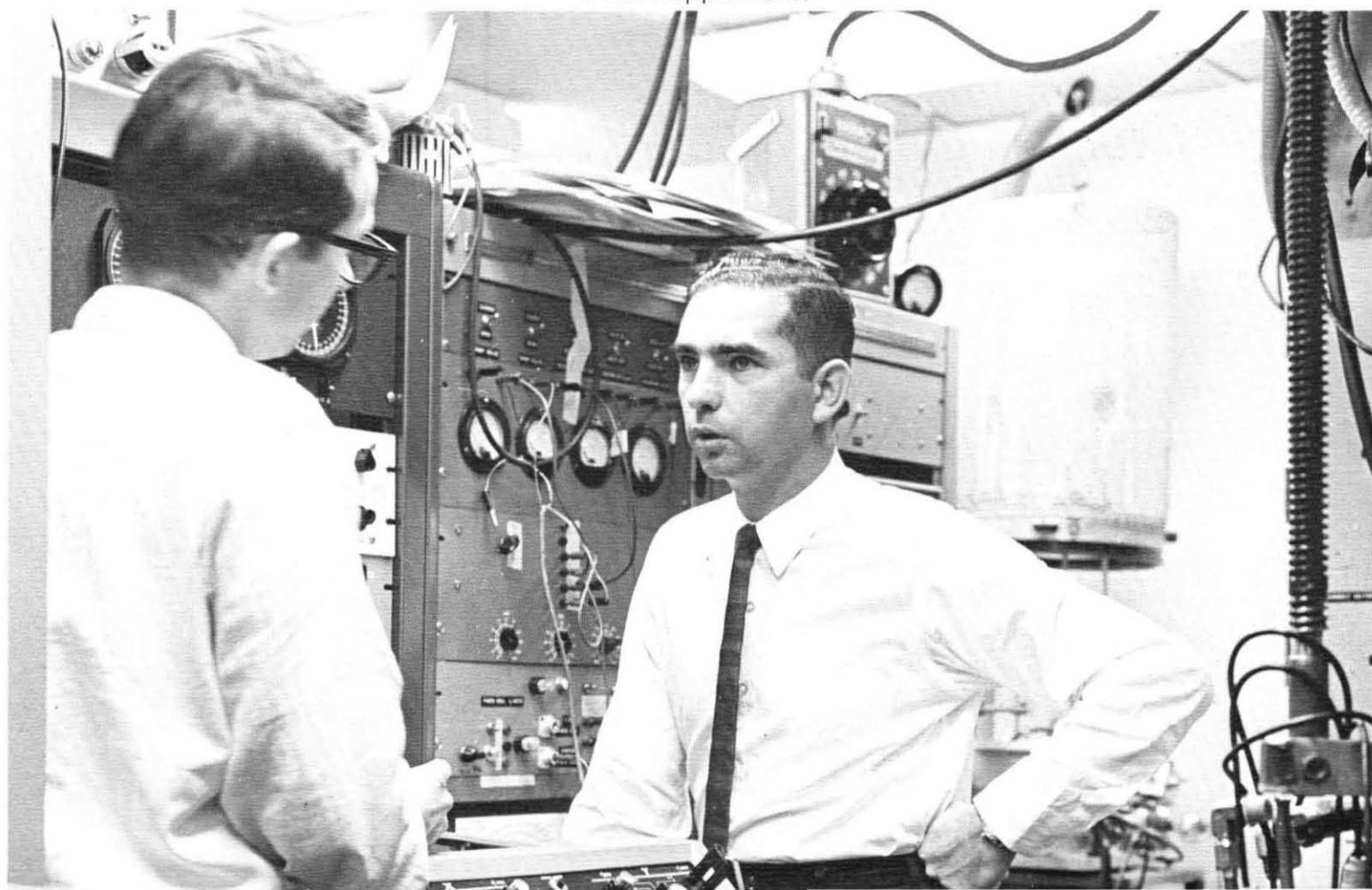
CHEMISTRY



Linus Pauling

Jerome Vinograd

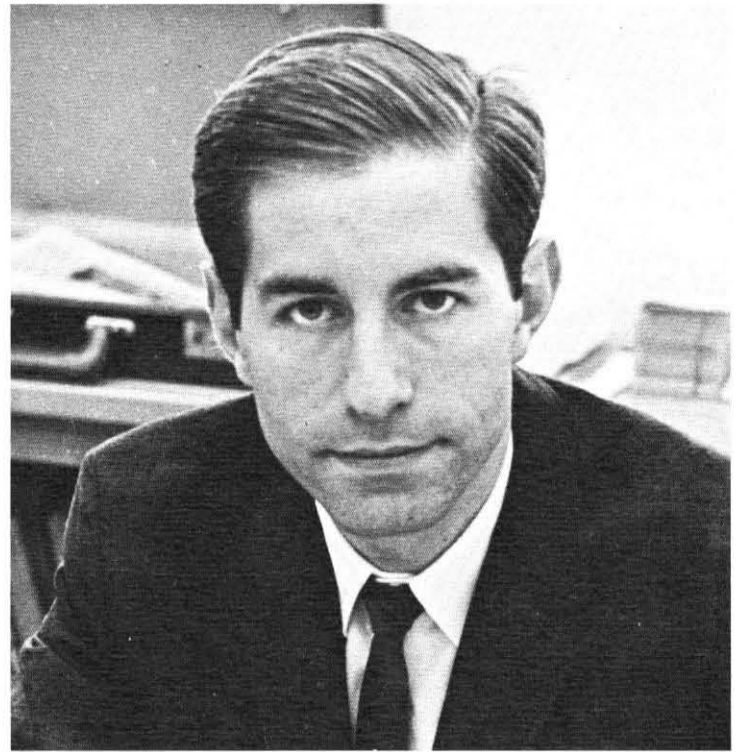
Aron Kuppermann



CHEMICAL ENGINEERING



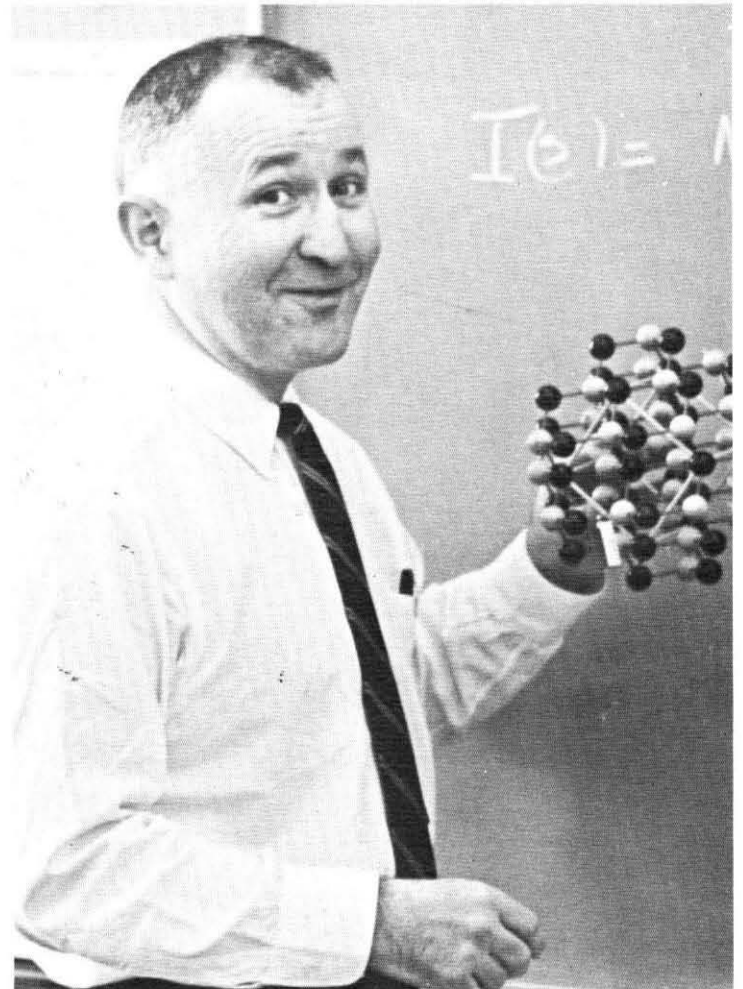
William Corcoran



George Gavalas

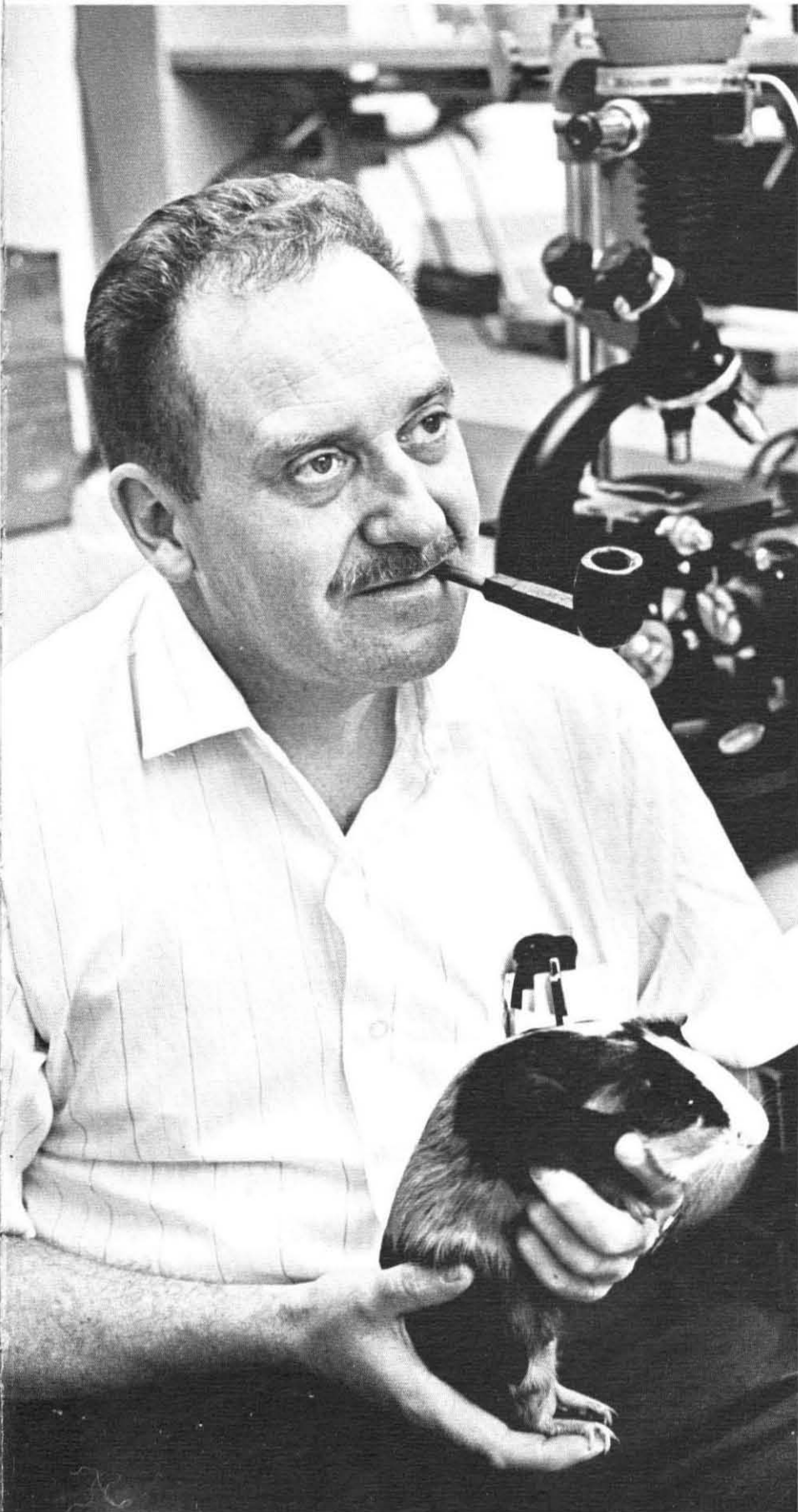


Bruce Sage

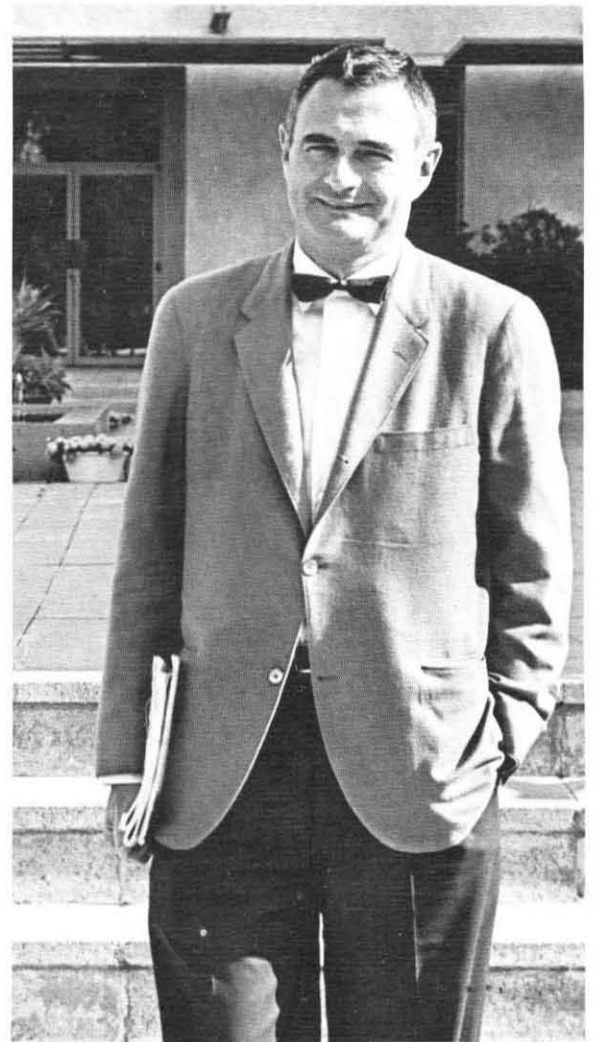


Cornelius Pings

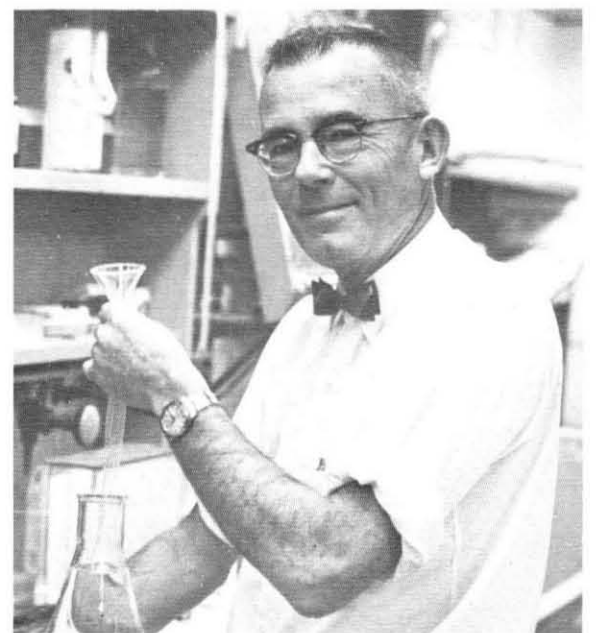
BIOLOGY



Ray Owen



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James Bonner

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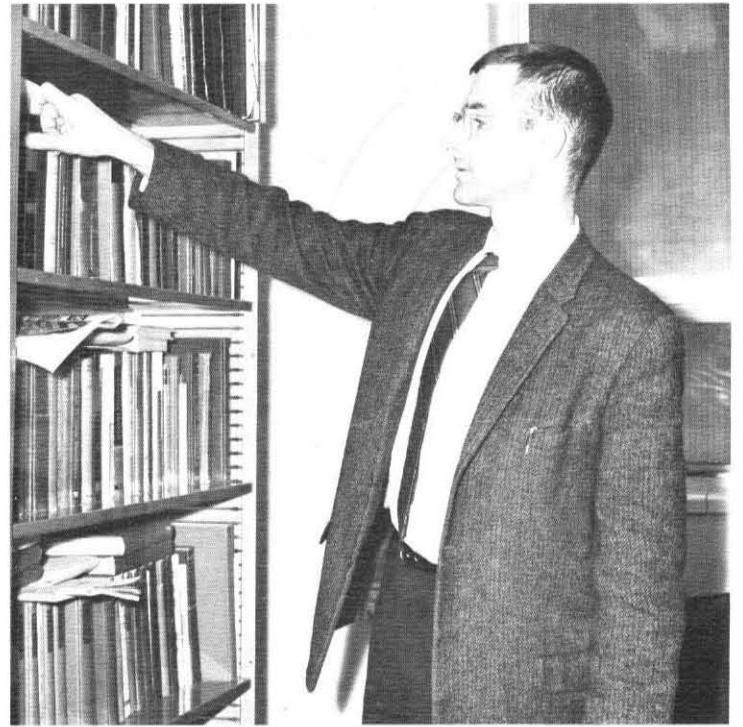
Floyd Humphrey



APPLIED SCIENCE



James Knowles



Fred Culick

Frederick Lindvall

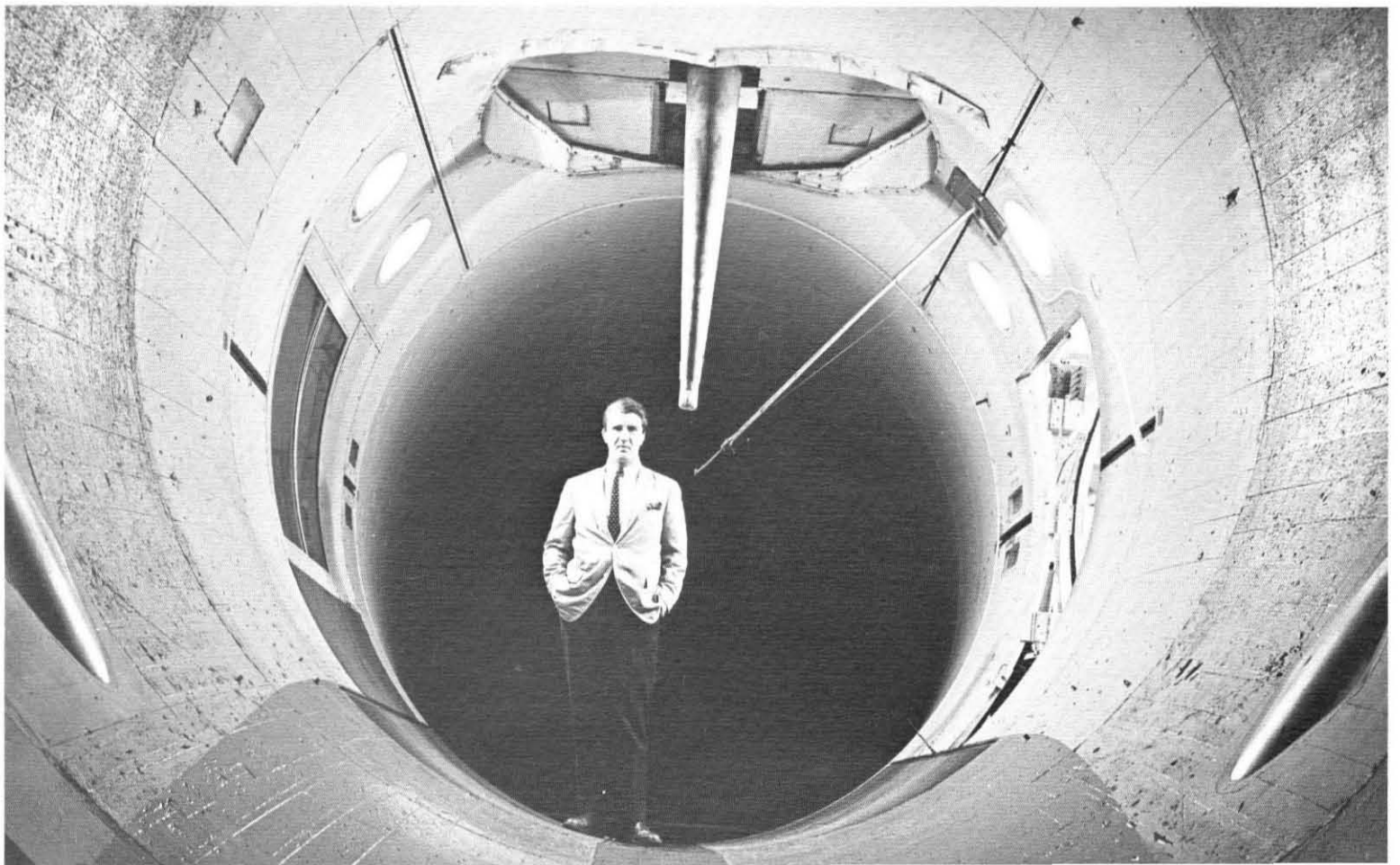


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Clarence Allen



Robert Sharp

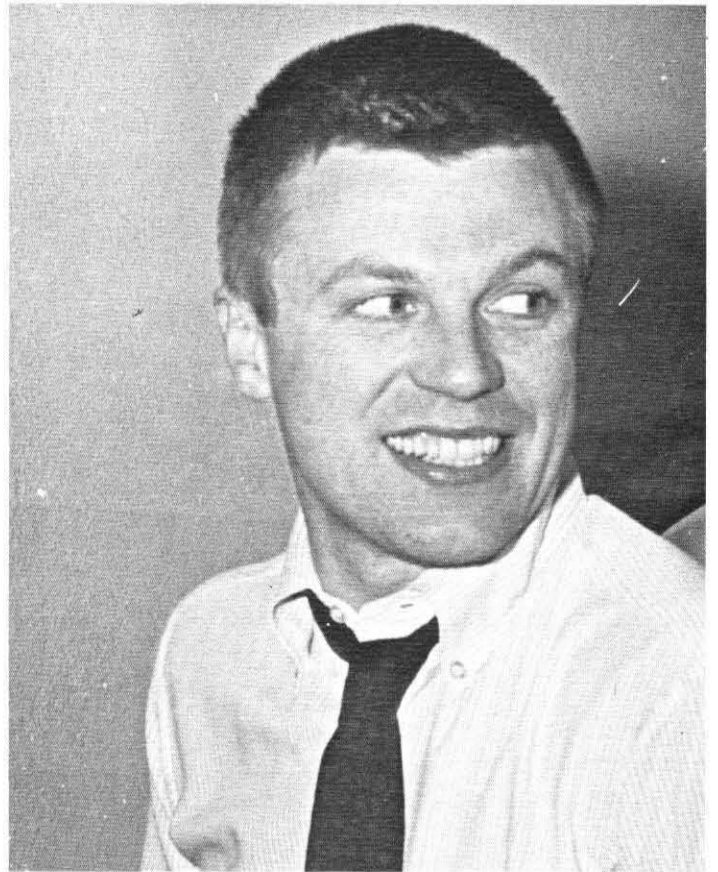


Charles Richter

HUMANITIES AND



Edwin Munger



Byrd Jones

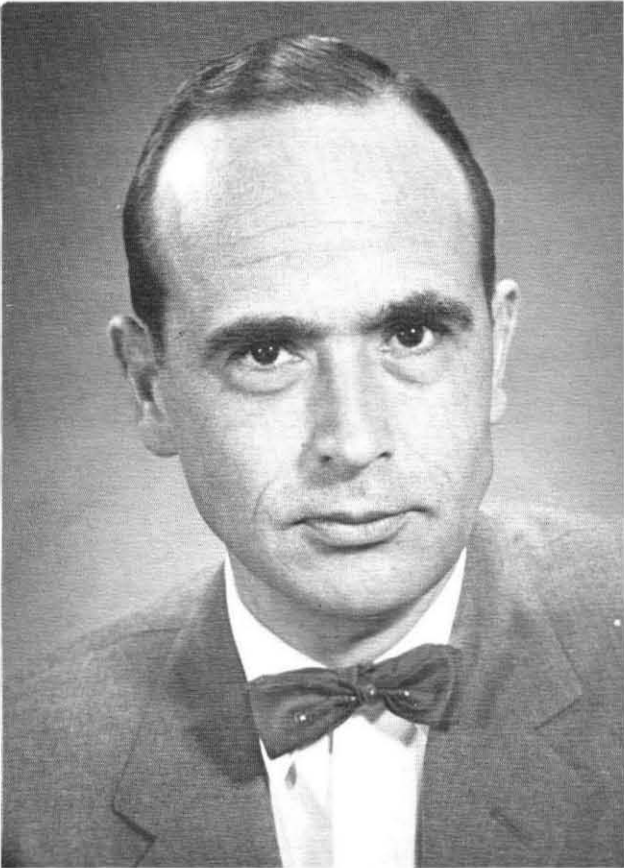


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Oscar Mandel

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Dave Elliot



Peter Fay

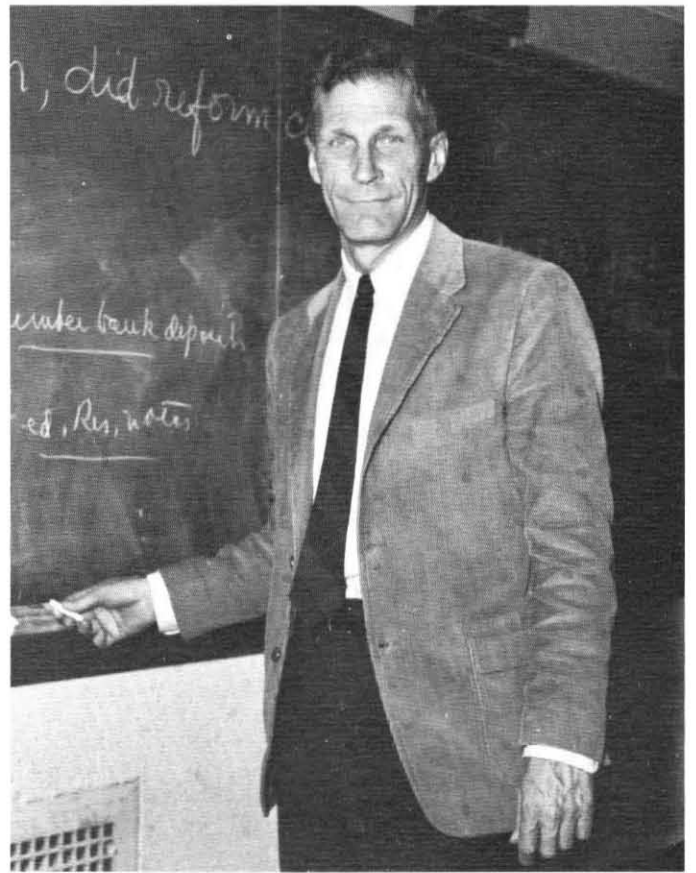


J. Kent Clark

HUMANITIES



Thayer Scudder



Alan Sweezy

Hallet Smith



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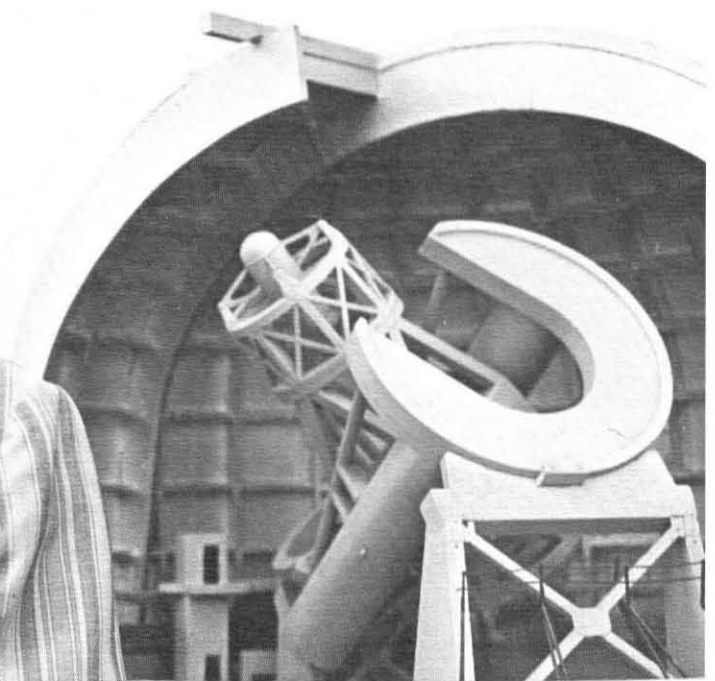


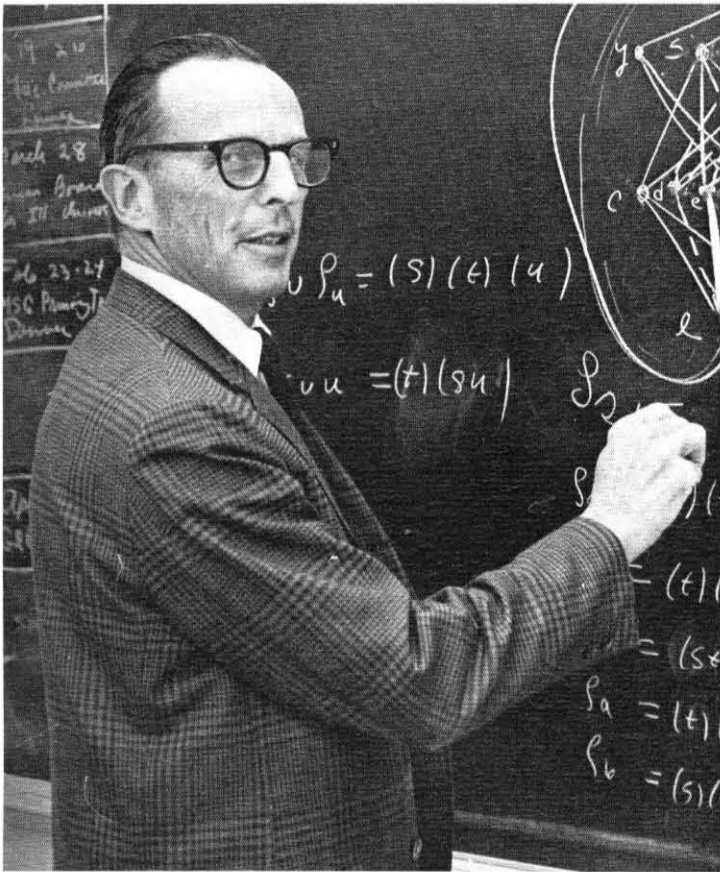
Harold Zirin



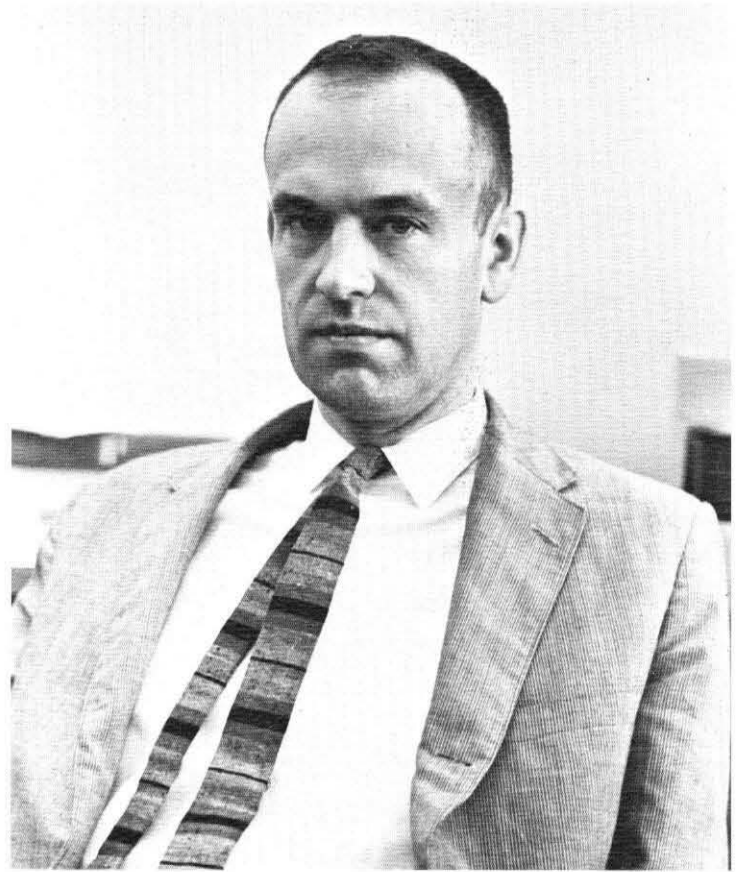
Guido Munch

J. B. Oke

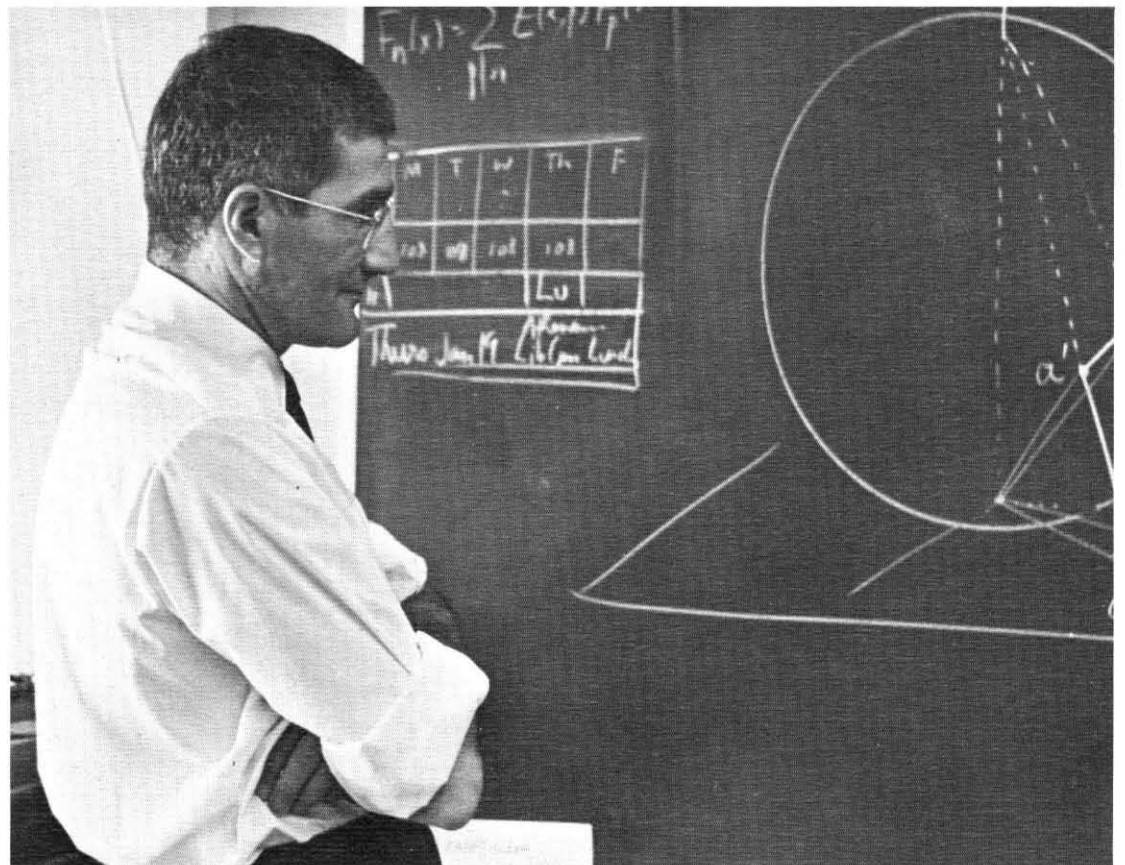




Robert Dilworth

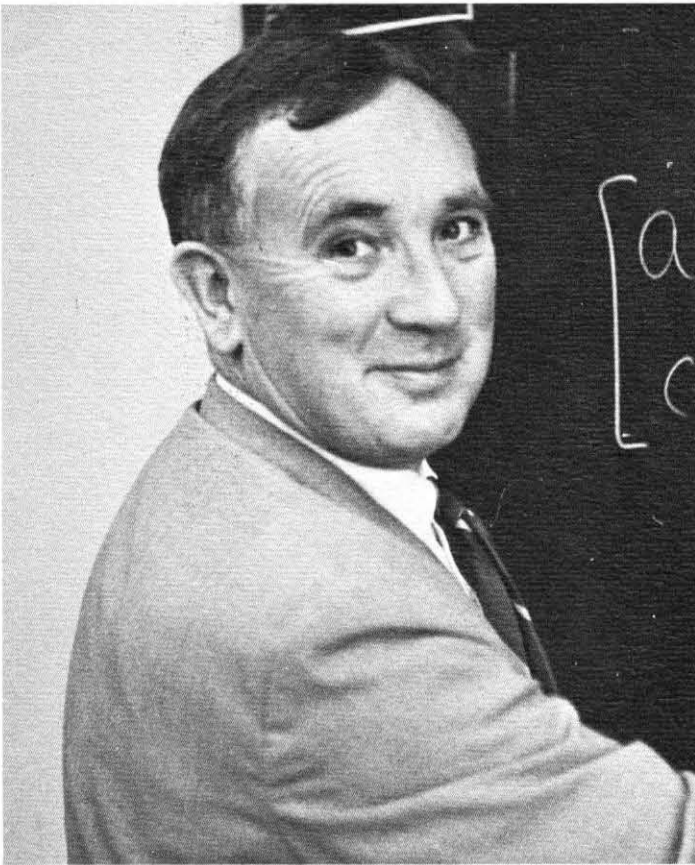


F. Brock Fuller

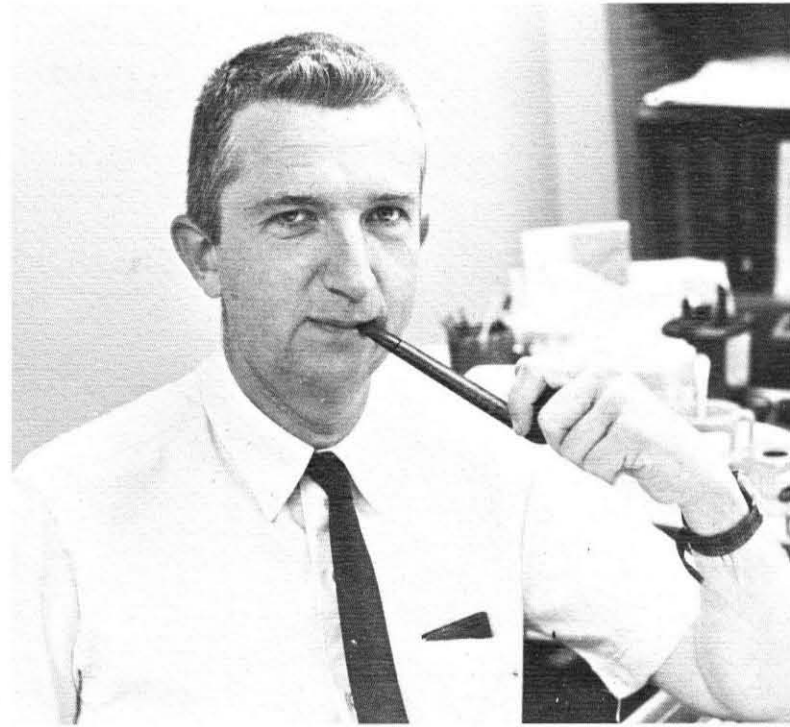


Tom Apostol

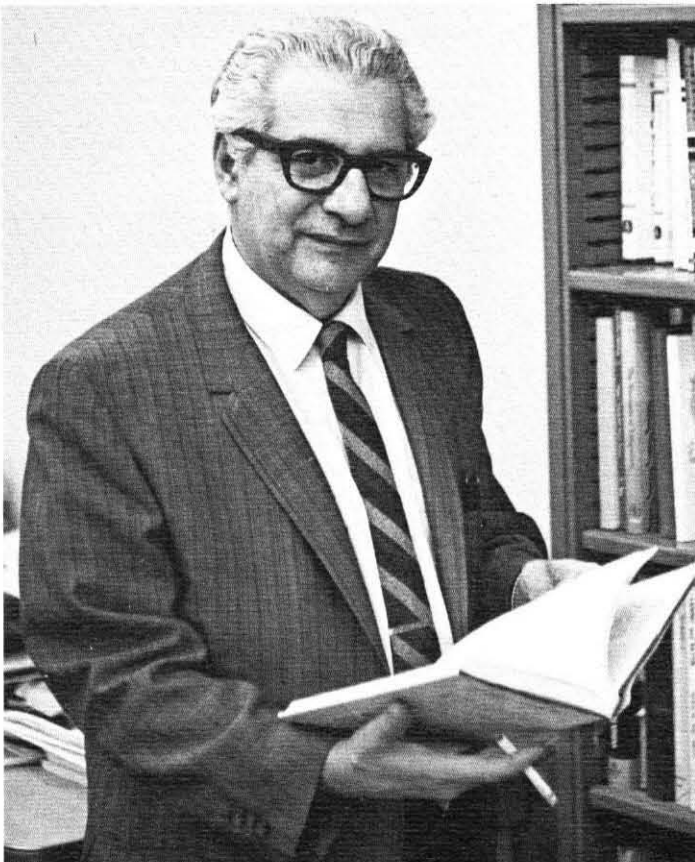
MATHEMATICS



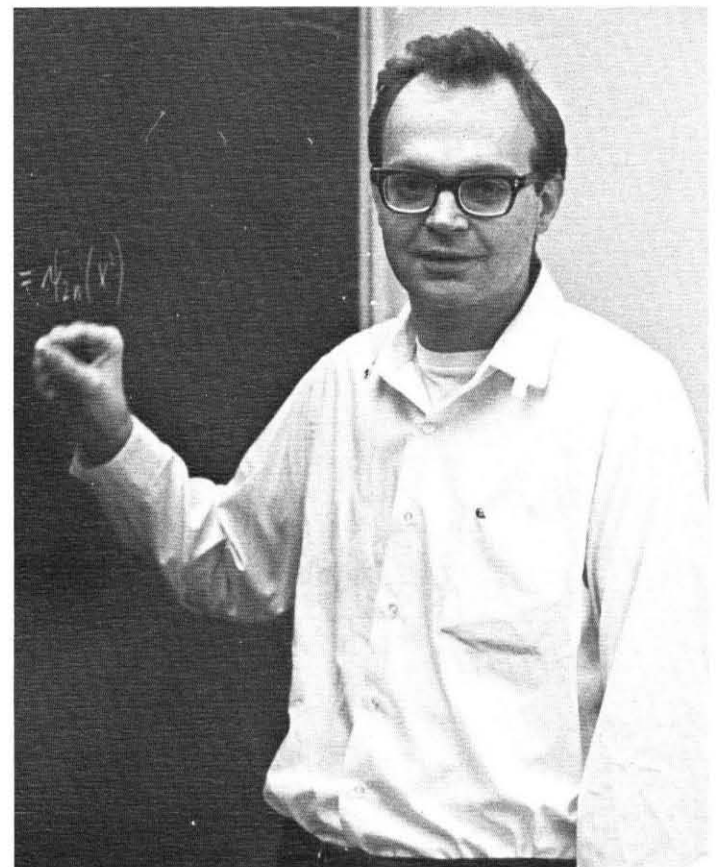
John Todd



Richard Dean



Charles DePrima

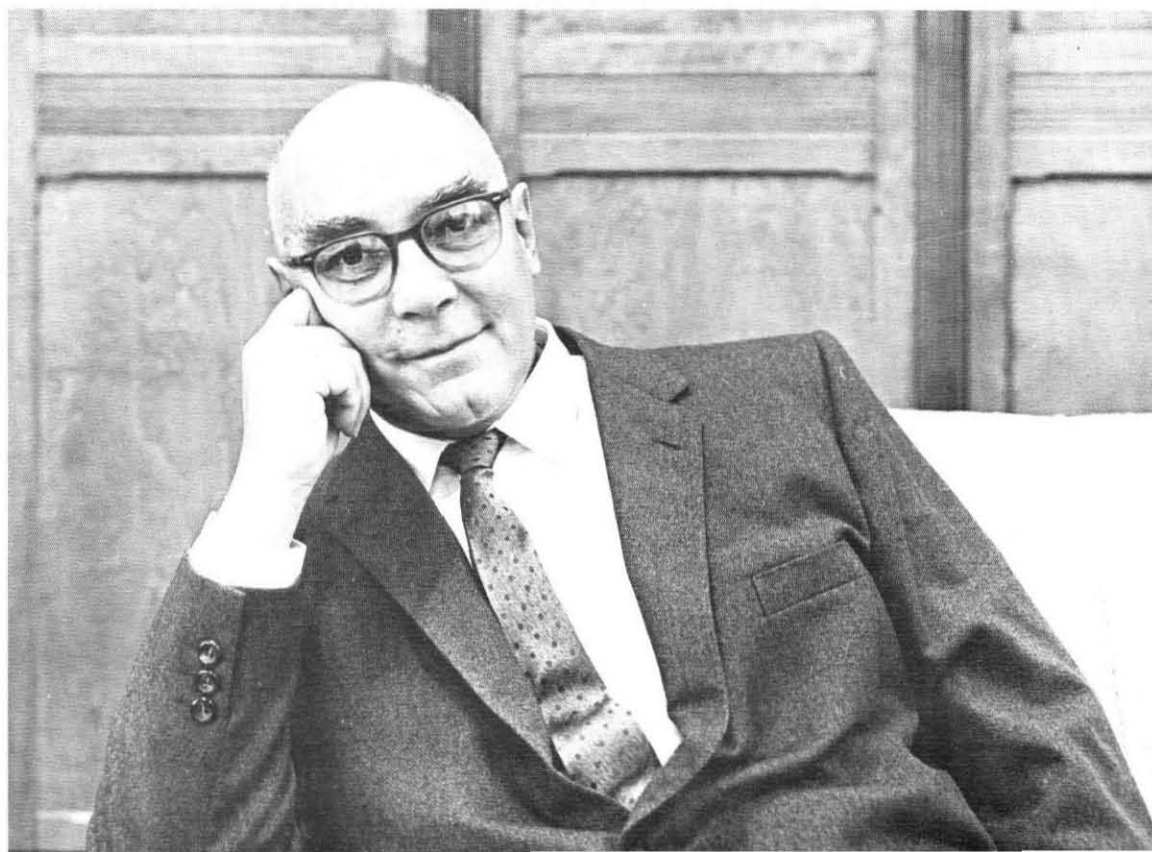


Donald Knuth



Murray Gell-Mann and R. P. Feynman

Carl D. Anderson



PHYSICS

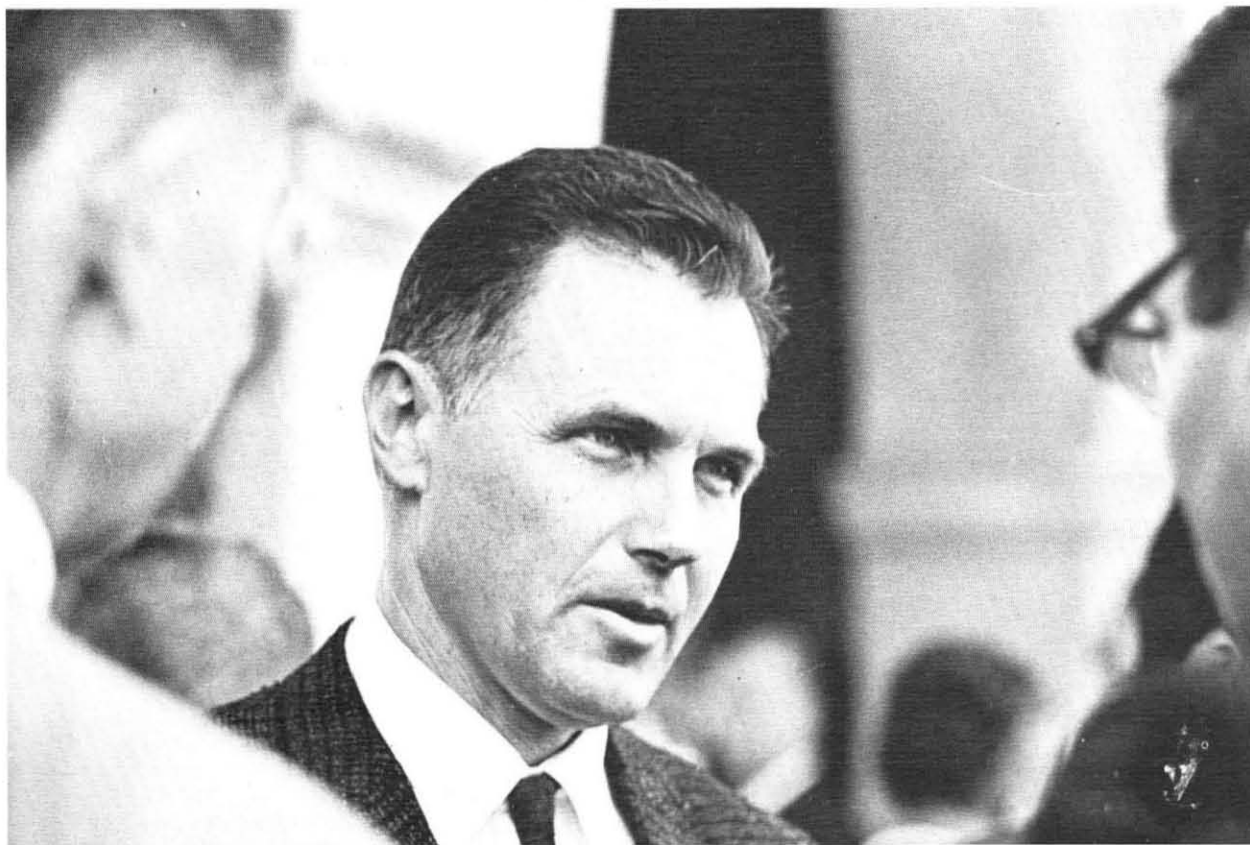


Rudolf Mossbauer



Rochus Vogt

R. B. Leighton



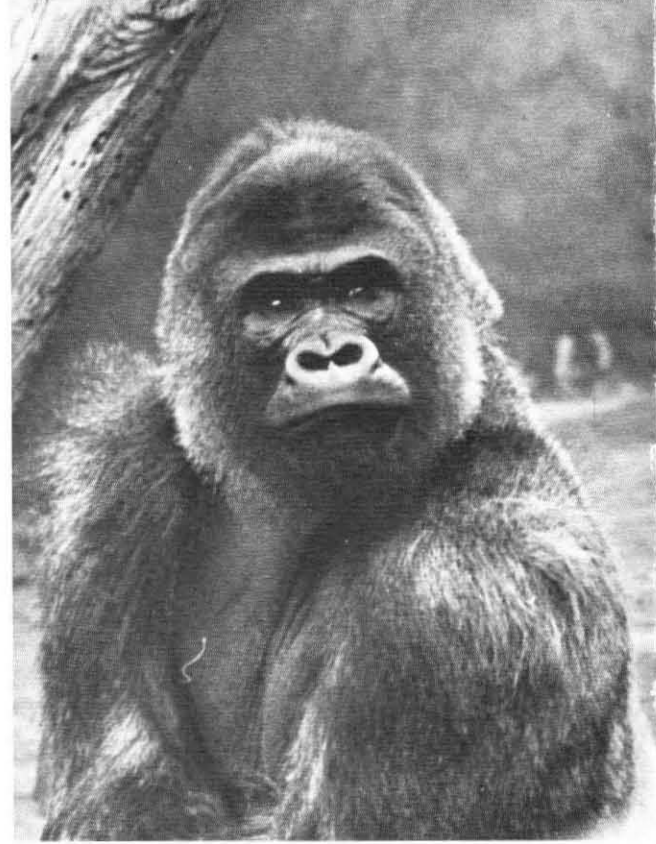




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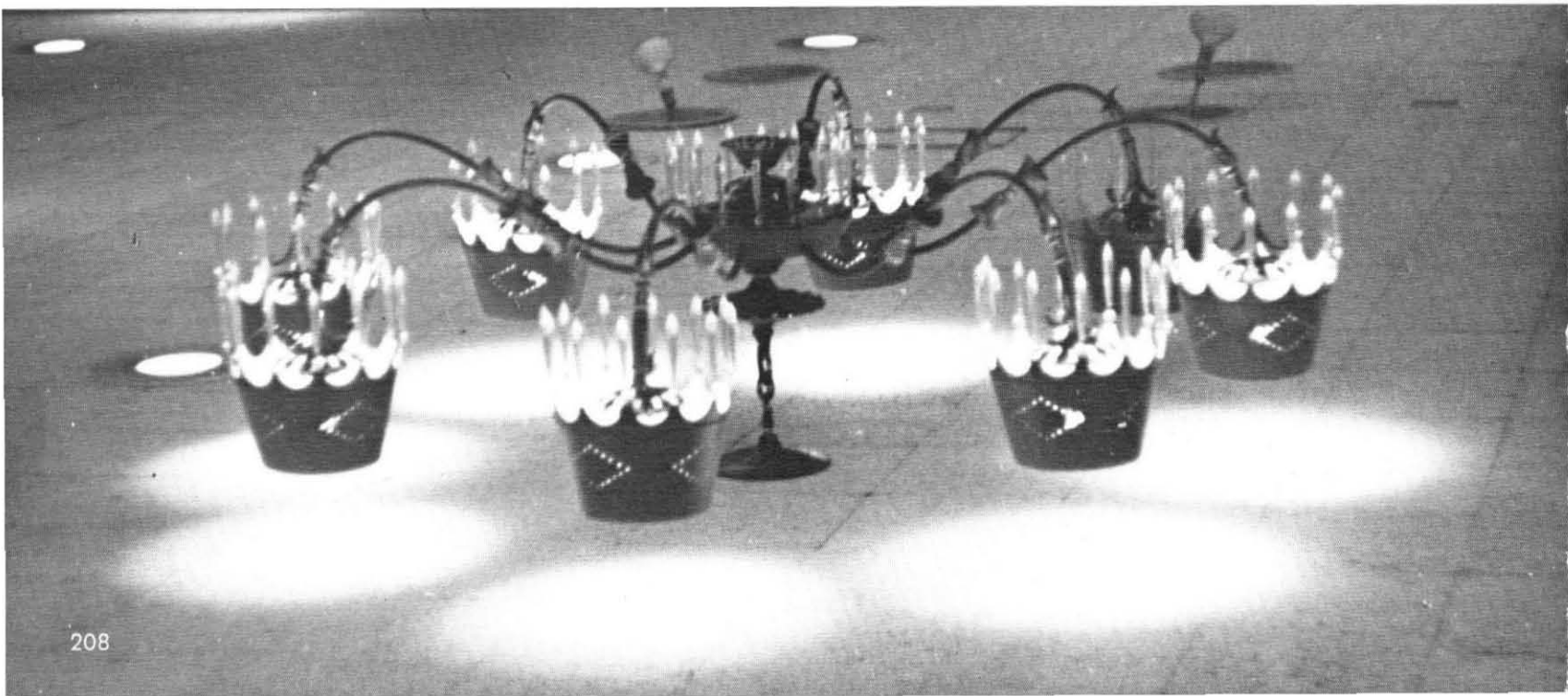


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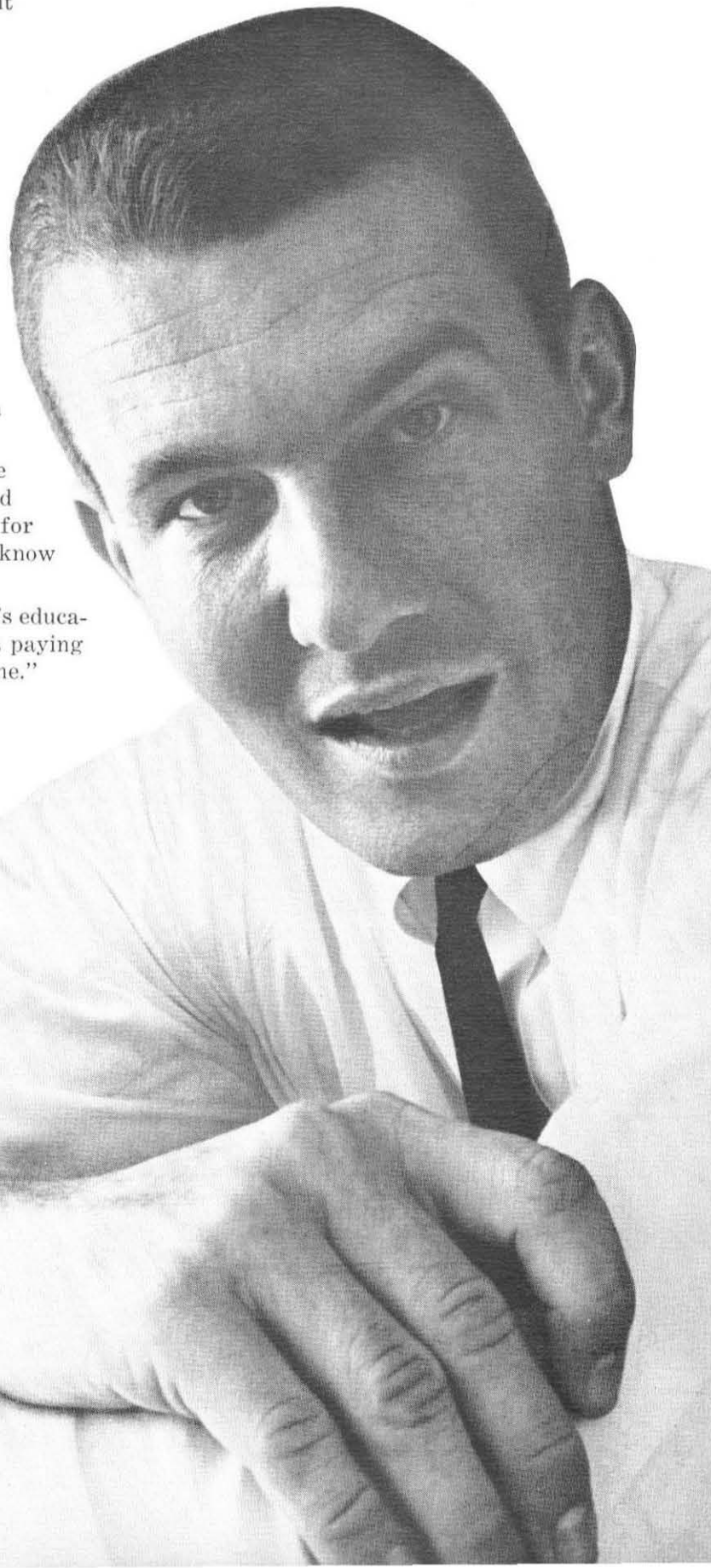
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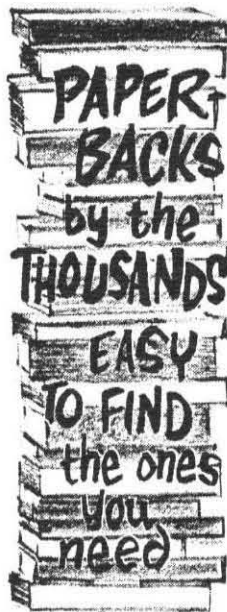
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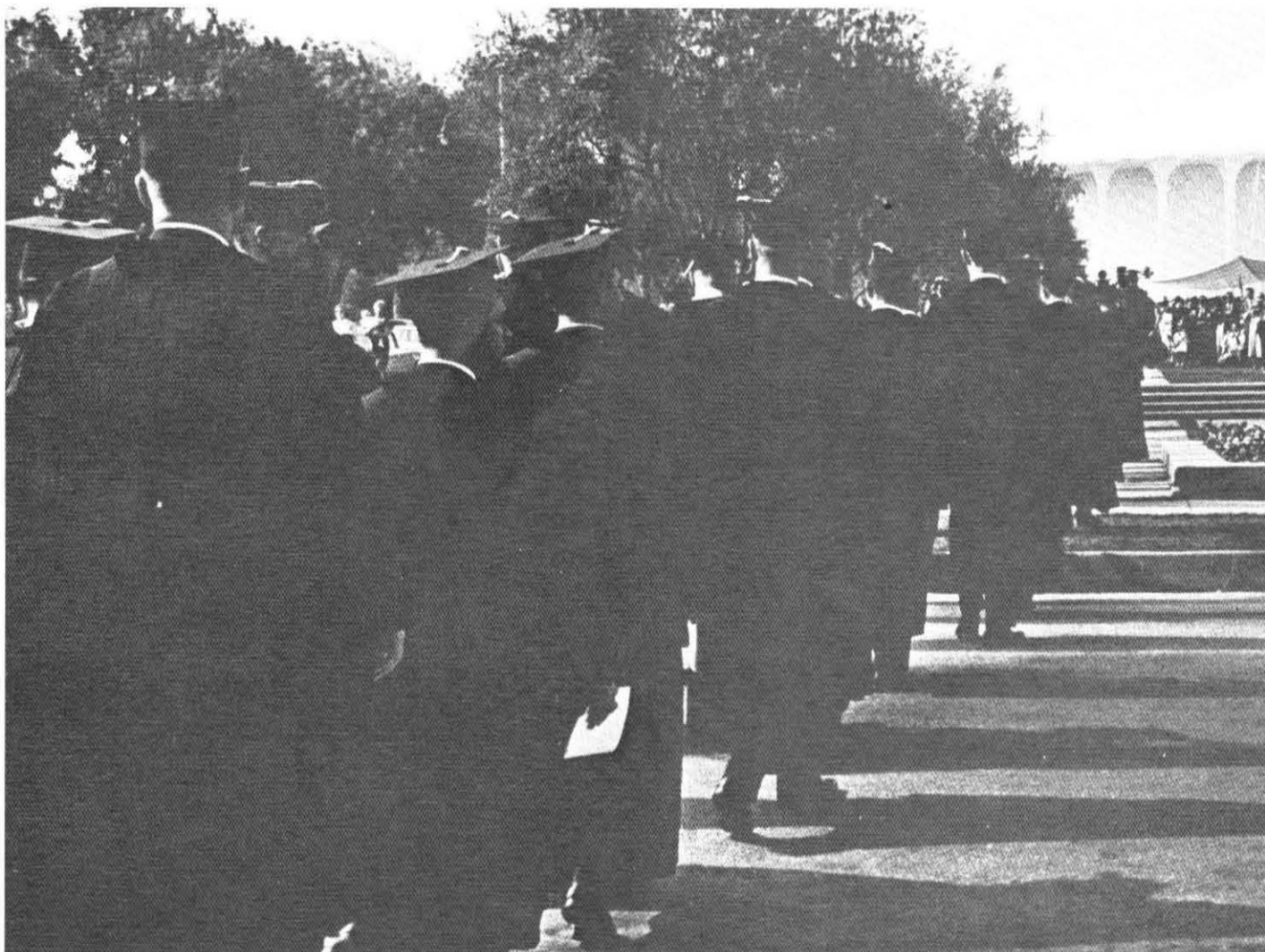
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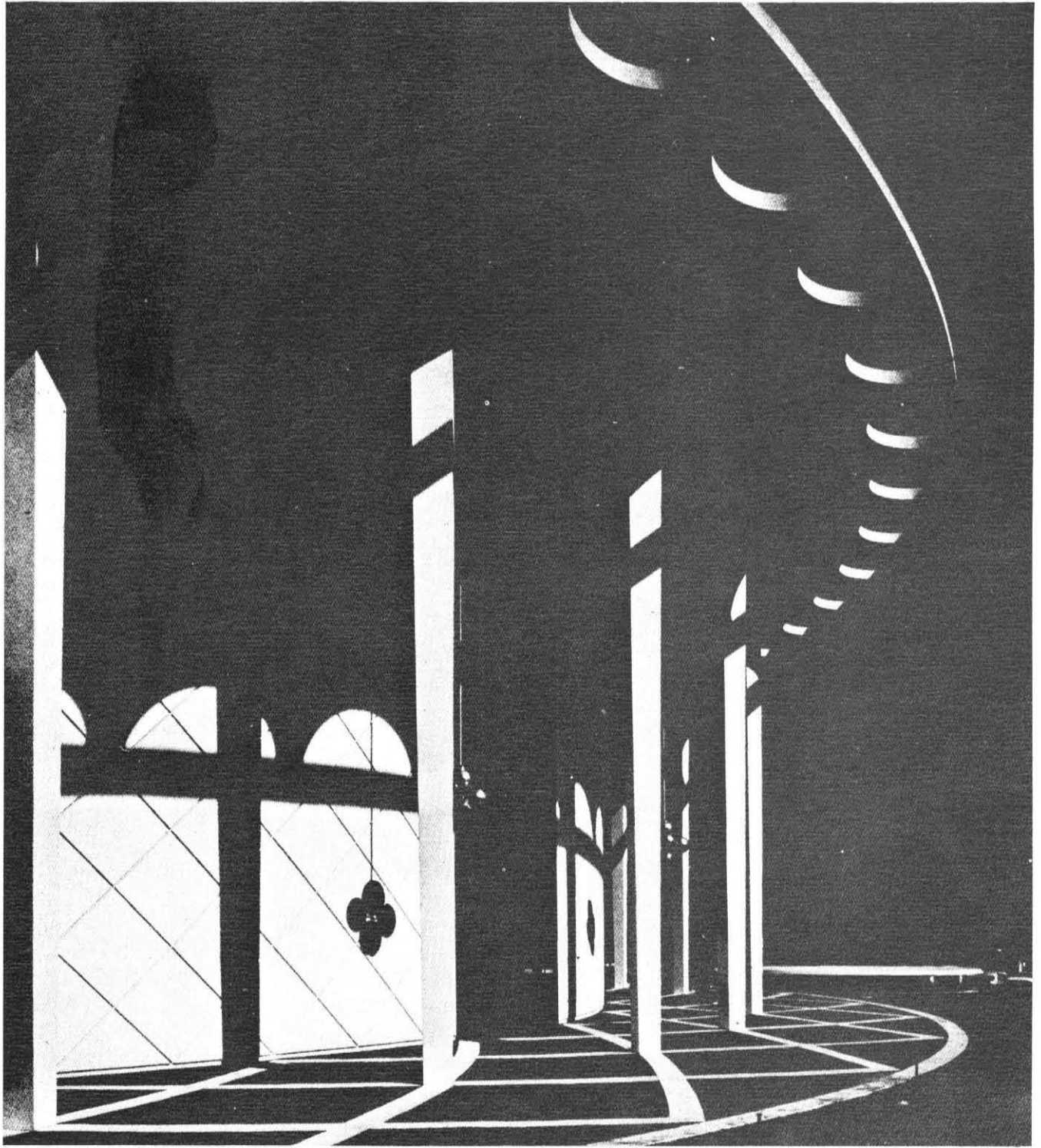
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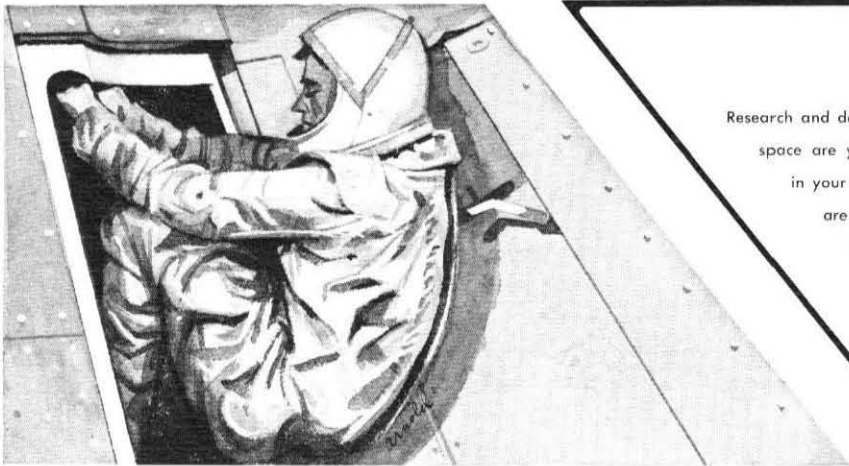
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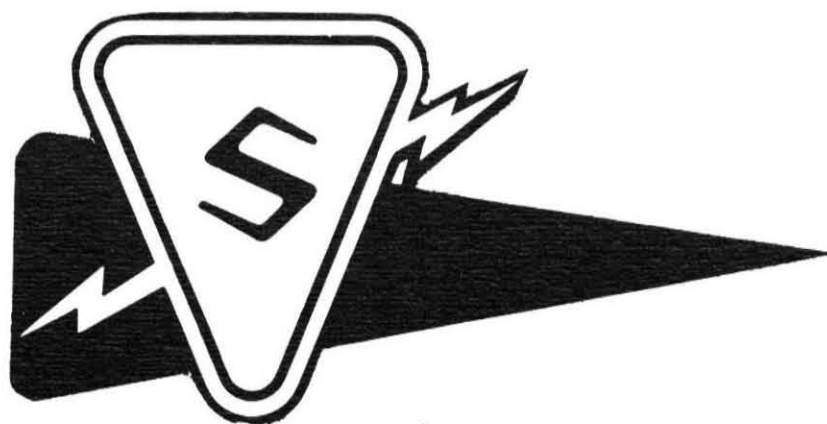


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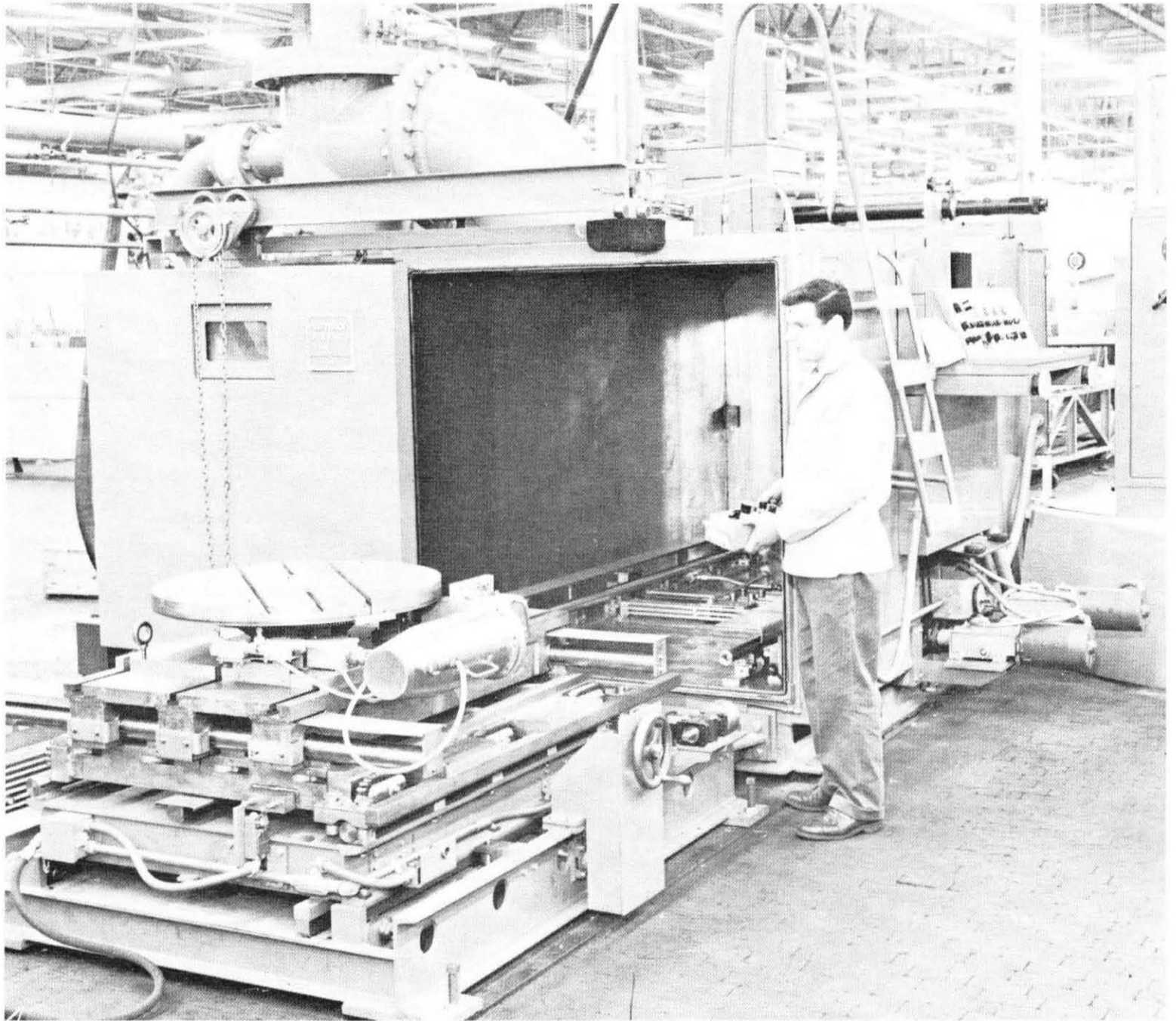
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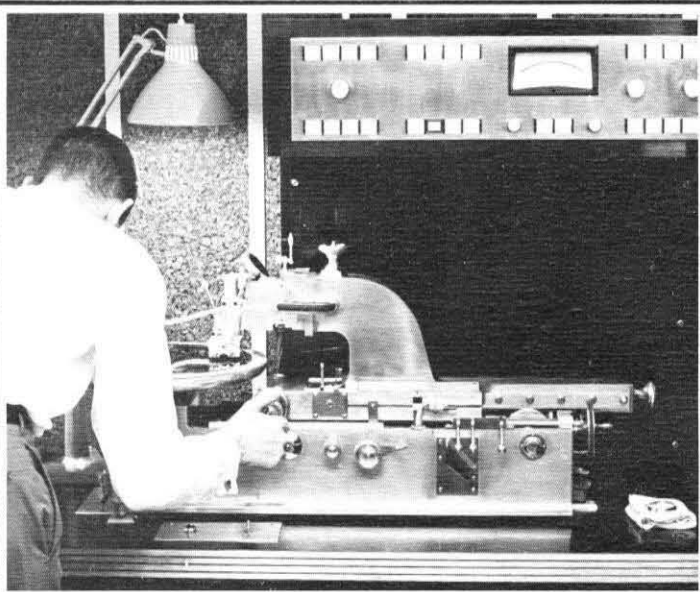


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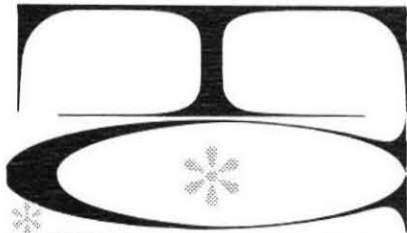
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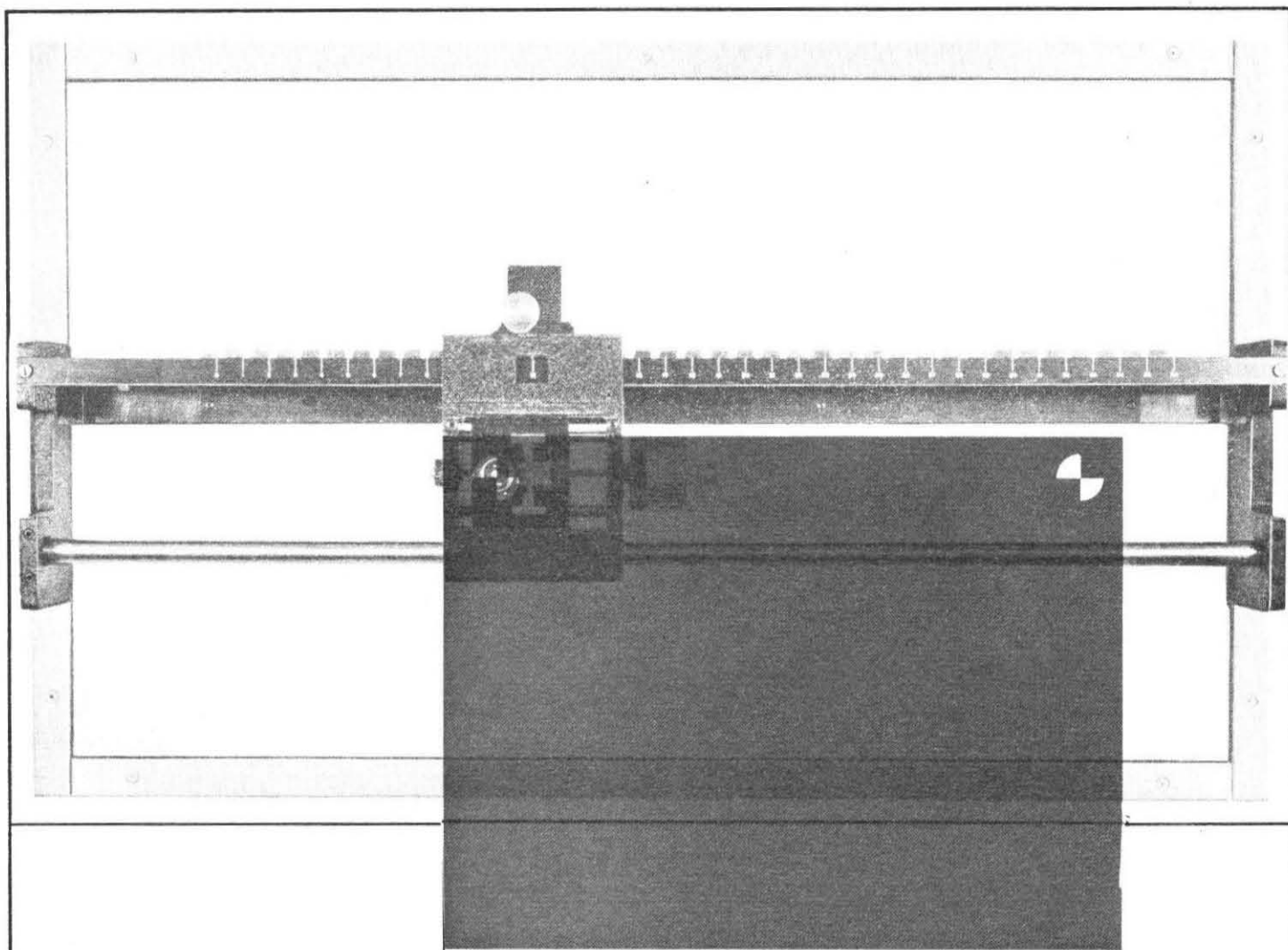


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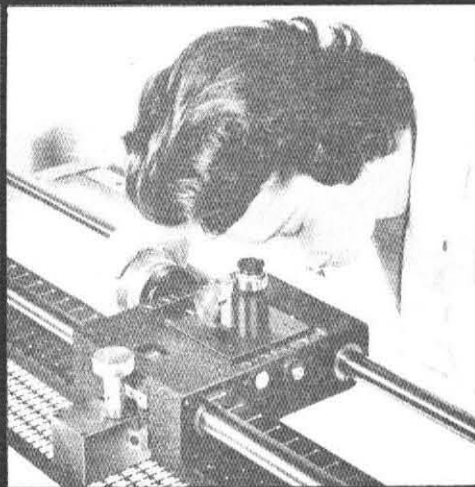
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ARU check is a totally new optical-mechanical instrument for precision measuring of close tolerance film negatives, positives, glass plates and printed circuit boards. It was specifically designed and developed to meet the critical need for point-to-point measurement. Micrometer head readout to .0001" and overall accuracy across 36" to .0005" is possible on any planar surface. This product of Precision Photography, Inc., provides the highest degree of accuracy and has proved — in use — that it does away with time lost in old-fashioned measurement methods, eliminates costly measurement errors and pays dividends in substantial cuts in production costs.

SPEEDY OPERATION

The design of this precise instrument is complex—but its operation is not. It takes only **seconds** from start to finish. In five minutes, any operator can be trained to make fast, accurate readings.



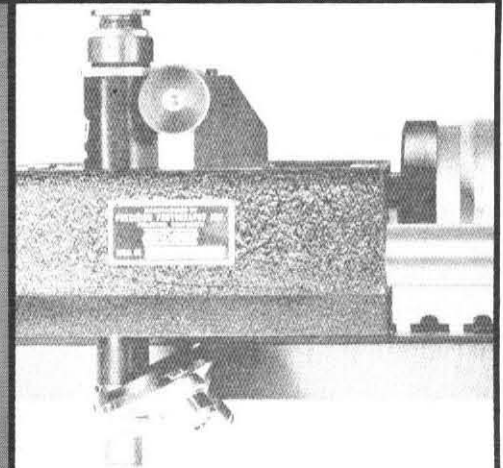
SIMPLE FOCUS

Easy-to-use Aku-check has three separate lenses mounted in a turret head, so you can instantly change magnification to the power desired. The eye piece has cross hairs to permit pinpoint alignment every time.



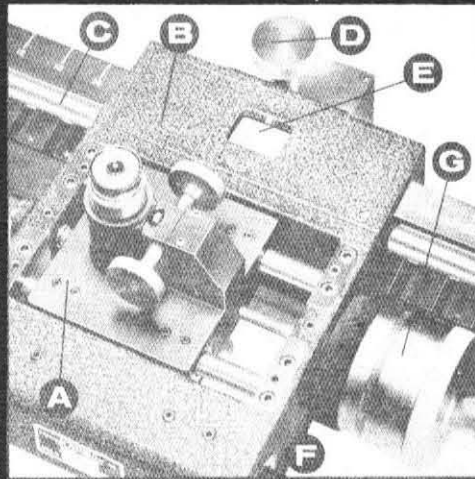
COMPACT, COMPLETE

Aku-check is mounted on a first quality light table as a complete, self-contained unit. The unit is shipped fully assembled and ready for operation. The manufacturer not only guarantees safe delivery, but will also **send a factory-trained service specialist** to your environment and working area.



CONVENIENT CONTROLS

Aku-check has a measurement range from 0" to 36" with micrometer dial readout to .0001". Operation is easy. Microscope subcarriage **A** on carriage assembly **B** glides on polished stainless steel ways **C**. Lock-in stops **D** along the ways indicate measurement to nearest inch, and measure is registered in window **E**. Image zeroing collar **F** and micrometer dial **G** zero in final measure.



SPECIFICATIONS

Length	50"
Width	30"
Height, floor to tabletop	36" approx.
Height, floor to eye piece	45" approx.
Micrometer head	3" dia., .001" readout
Lens, standard	(3) 20, 40, 100 power, approx.
Focus	rack and pinion
Table, base construction	all steel welded
Table leveling	leveling screws, each leg
Table lights	(3) 48" fluorescent tubes
Table glass	27" x 47" x 1/8" plate
Shipping weight, complete	450 lbs., approx.

Precision Photography, Inc., 1000 S. Pomona Ave., Fullerton, Calif.

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DESIGNED AND PRODUCED

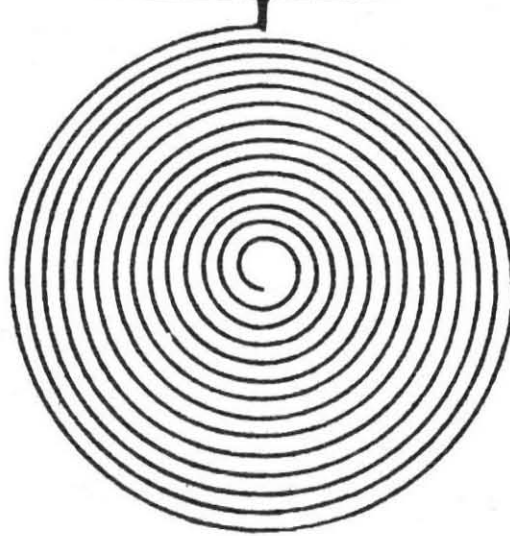
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