

# **BIG T**



# 1961

L

# FOREWORD

Many important changes have taken place on the Caltech campus since the last Big T was published. A number of these have been the result of an extensive building program initiated several years ago. Perhaps the most significant to the student body in general is the addition of three new undergraduate student houses, Lloyd, Page, and Ruddock. This trio along with the old, wellestablished Blacker, Dabney, Fleming, and Ricketts now house a large majority of the undergraduate students.

This first year of existence, was, of course, a trial of many aspects of student house living. The Rotation problem had to be solved, and it was decided that there would be a one year moratorium. The new houses had to organize and get on their feet, and they did so using a remarkable mixture of old and new methods for solving their problems.

To show this uniting of the old and the new is the purpose of the 1961 Big T.

Bob Schmulian Julian Prince

# CONTENTS

FACULTY	6
SENIORS	18
STUDENT GOVERNMENT	44
HOUSES	56
ACTIVITIES	94
SPORTS	124
ADVERTISING	150

# 1961 T STAFF



Julian Prince, Editor



Bob Schmulian, Editor



Pete Fischer, Editor



Jim Blackmon, Business Manager



Front: George Reeke, Bob Lieberman. Back: Miguel Levy, Bill Giaugue, Bob William, John Madey.

#### SECTION EDITORS

Julian PrinceActivities
Jim BlackmonAdvertising
Kay SugaharaFaculty

Bill	Giaugue	•	, ,	 •	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	House	es
Johr	n Madey		• •						•	•	•								•							Senio	rs
Bob	Lieberman			•	÷	÷	•		•		•	•		•		ł		•	•	•		•	•	•	•	. Spor	ts

#### ACTIVITIES STAFF

Steve Bruenn
Herb Flindt
Bob Jernigan
Wendell Mendell
Art Robinson
Bill Tivol
Larry Yeagley

Bill Bush Bill Francis Dave Kendle Bob Neilson Jun Sagawa Art Turner Rod Zook

John Clauser	Vic Er
Norm Gordon	Lorne
Chuck Knapp	John
Julian Prince	Bill R
Doug Shakel	Joel 1
Dave Turner	Frank

Vic Engleman Lorne Hoolnick John Lohman Bill Reining Joel Tenenbaum Frank Winkler

#### ADVERTISING STAFF

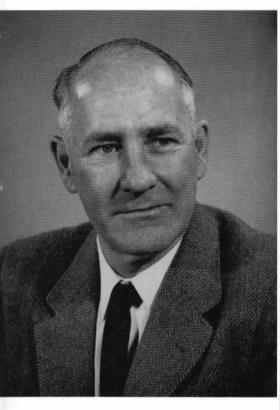
Jim Blackmon	.Business Manager	Les IngberBill	Collector
Doreen Hollis	Secretary	Sam Suitt	Salesman



# FACULTY



Lee A. DuBridge



GEORGE W. BEADLE Acting Dean of the Faculty



FREDERIC BOHNENBLUST Dean of Graduate Studies



PAUL C. EATON Dean of Students

L. WINCHESTER JONES Dean of Admissions

DEANS

WILLIAM N. LACEY Dean of the Faculty



FOSTER STRONG Dean of Freshmen





HUMANITIES, 1st Row: H. Ellersieck, A. Stern, C. Strout, P. Bowerman, H. D. Smith - Chairman, H. Eagleson. 2nd Row: E. Hutchings, Jr., R. Stanton, C. E. Bures, M. D. Brockie, P. R. Baker, P. Orlov, H. N. Gilbert, P. Fay. Last Row: C. Hewton, R. D. Wayne, B. Laugston, J. C. Davies, J. K. Clark, A. R. Sweezy, D. Thomas, E. S. Munger, R. Conhaim, R. W. Oliver.

# **HUMANITIES**

# AIR SCIENCE

THE AFROTC DETACHMENT STAFF

Left to right: Major Francis R. MacKenzie, Capt. Andrew Henry, Capt. Cary D. Stephenson, T/Sgt. Richard E. Stafford, T/Sgt. Willard J. Garner, S/Sgt. John E. Merchant.

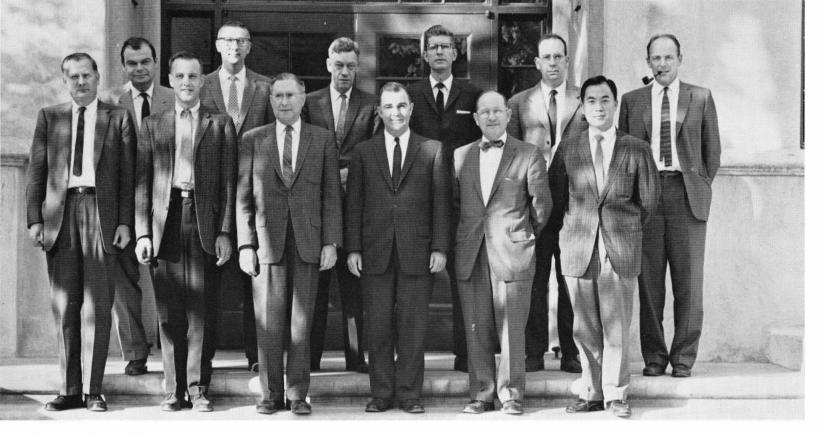




GEOLOGICAL SCIENCES, Seated, left to right: H. Brown, R. P. Sharp, C. R. McKinney. Standing: L. T. Silver, R. H. Jahns, A. L. Albee, S. Epstein, C. R. Allen, H. A. Lowenstam, H. P. Taylor, H. Benioff, C. H. Dix.

# GEOLOGY





Front Row: F. S. Buffington, J. K. Knowles, J. H. Wayland, D. F. Welch, D. S. Clark, T. Y. Wu. Back Row: R. H. Sabersky, J. Miklowitz, W. D. Rannie, T. Vreeland, Jr., T. K. Caughey, D. S. Wood.

# MECHANICAL ENGINEERING

# **ELECTRICAL ENGINEERING**

Back Row: M. A. Nicolet, R. V. Langmuir, D. G. Dow, H. C. Martel, R. D. Middlebrook, C. H. Wilts, C. A. Mead. Front Row: E. N. Pinson, G. D. McCann, Jr., N. George, C. H. Papas, F. J. Mullin, F. W. Maxstadt.





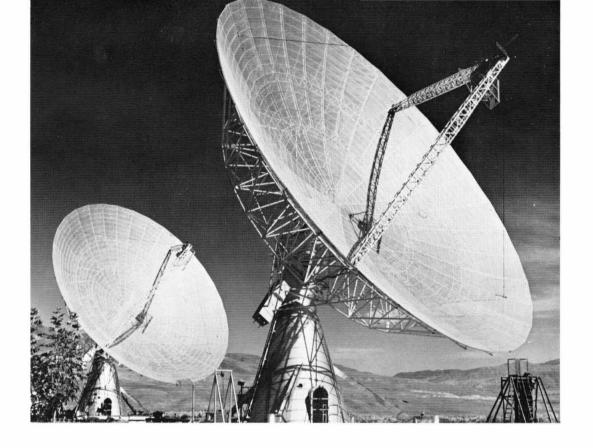
Top Row: G. W. Housner, N. H. Brooks, A. T. Rossano, Jr., J. E. McKee, V. A. Vanoni, W. R. Samples, R. F. Scott, F. J. Converse, H. W. Wolf, C. W. McComick. Seated: R. R. Martel, J. F. Kennedy, G. J. Mahanrao.

# **CIVIL ENGINEERING**

# AERONAUTICS

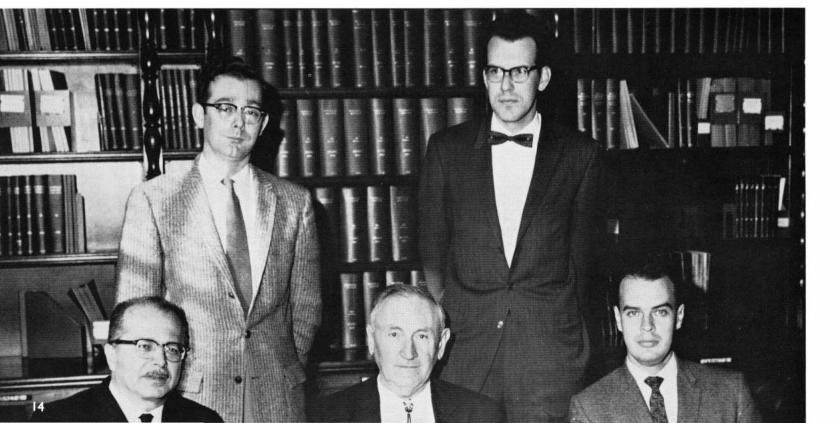
Front Row, left to right: R. Stearman, H. D. Krumhaar, Y. C. Fung, I. Chang, J. D. Cole, T. Kubota, R. Narasimha, E. E. Sechler, B. Sturtevant, H. Groenig, H. W. Liepmann, D. E. Coles, C. B. Millikan, G. B. Whithan, L. Lees, P. Lagerstrom. Back Row: A. Watts, J. K. Kevorkian, H. J. Stewart, S. R. Valluri, A. F. Messiter, S. Kaplun, B. L. Reeves, H. W. Lier, A. Demetriades, G. Bienkowski.





# ASTRONOMY

Back: J. B. Oke, M. Schmidt. Front: J. L. Greenstein, F. Zwicky, G. Munch.





Back Row: C. A. G. Wiersma, H. Boorsook, G. W. Beadle, R. D. Owen, R. Dulbecco, R. S. Edgar, A. H. Sturtevant, A. J. Haagen-Smit, A. Tyler, H. Hellmers, A. Lang. Front Row: G. L. Keighley, E. B. Lewis, N. H. Horowitz, S. Emerson, H. K. Mitchell, E. G. Anderson.

# BIOLOGY



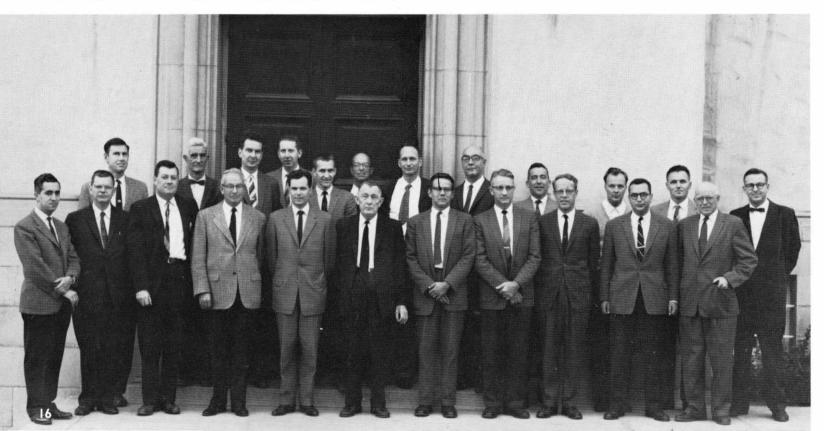


Back Row, left to right: S. A. Andrea, F. B. Fuller, M. P. Drazin, C. R. B. Wright. 2nd Row: G. D. Chakeman, C. R. DePrima, T. M. Apostol, C. H. Wilcox, R. P. Dilworth, M. Ward, J. Todd. Front Row: J. W. Macki, E. Tully, Jr., A. Erdelyi, H. F. Bohnenblust, A. C. Zaanen, M. Hall, Jr., O. T. Todd, W. A. J. Luxemburg.

# MATHEMATICS

# PHYSICS

Front Row: R. Gomez, T. Lauritsen, C. A. Barnes, R. F. Bacher, R. F. Moessbauer, C. C. Lauritsen, J. Mathews, H. V. Neher, L. Davis, Jr., M. Gellmann, R. M. Sutton. Back Row: R. F. Christy, W. R. Smythe, H. G. E. Kobrak, R. F. Deery, J. H. Mullins, F. Strong, E. W. Cowan, C. D. Anderson, W. Whaling, H. A. Weidenmuller, R. B. Leighton, R. W Gould. Missing: R. P. Feynman.

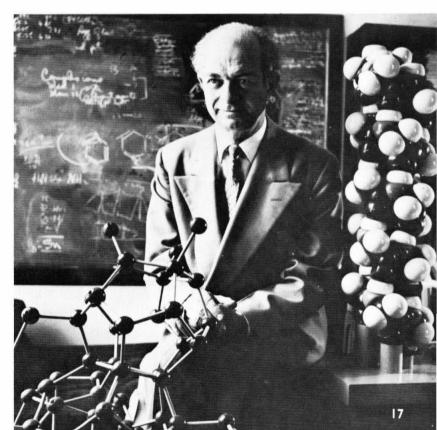




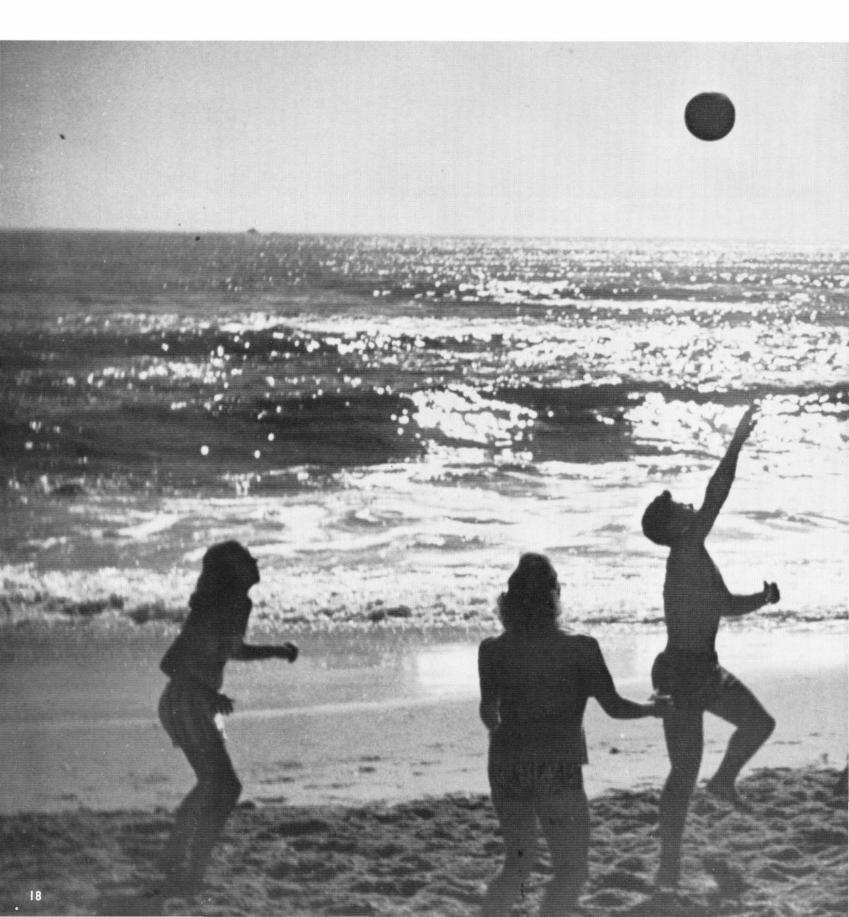
Left to right: L. Zechmeister, E. W. Hughes, E. H. Swift - Chairman, M. C. Caserio, A. F. Hildebrandt, H. J. Lucas, G. S. Hammond, W. P. Schaefer, H. M. McConnell, R. B. Corey, F. C. Arson, R M. Badger, J. H. Sturdivant, O. R. Wulf, J. H. Richards, G. W. Robinson, J. D. Roberts.

LINUS PAULING

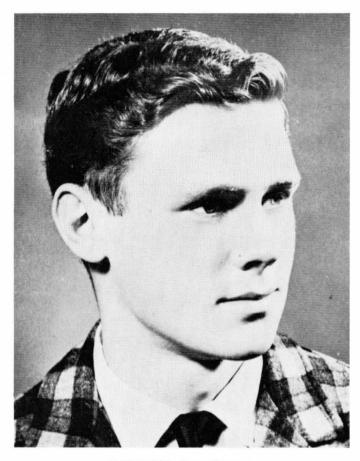
# CHEMISTRY



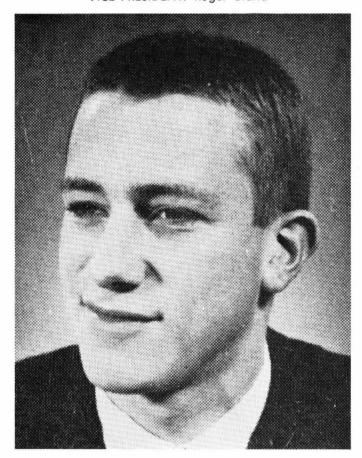
# SENIORS







PRESIDENT: Don Forrest

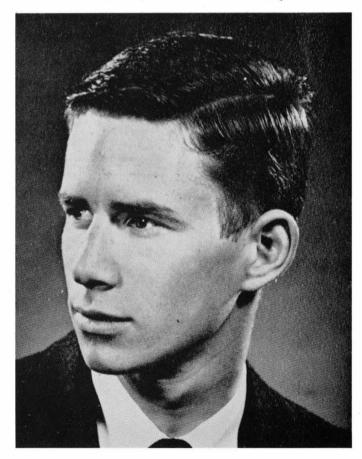


VICE-PRESIDENT: Roger Bland



SECRETARY: Tom Keil

ATHLETIC MANAGER: Bob Ruby



# **OFFICERS**



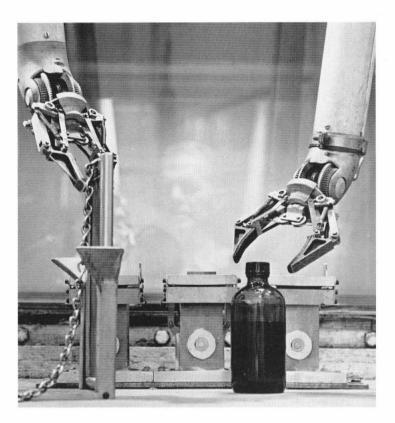
TREASURER: Chuck Ray



#### J. RAYMOND HRIBAR FLEMING

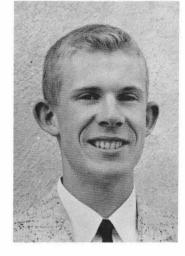
Ray Hribar's tastes in interior decoration run to myriads of small fish and large speakers; indeed he occasionally looks not unlike a large guppy himself, as he darts hurriedly about. His magnificent hi-fi, his large collection of paperbacks, and his noted hospitality have lent his room that exclusiveness and privacy common to gold-fish bowls.

Actually, he is probably more serpentine than fish-like, as his honor standing last year, his Vice-Presidency of ACS, and his activities in the Chem E department will testify. Nor should his athletic prowess be discounted. He has been a track manager for four years running. After Tech, Ray plans to go to grad school.

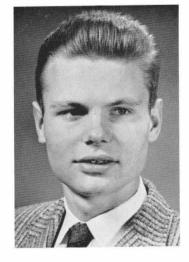




**DAVID W. KENDLE** DABNEY Dave came to Caltech from Salina (Suh-LINE-uh) Kansas, but has done fairly well in spite of this. Among his accomplishments are getting his soph scholarship to pay for his Hi-fi set, being an "also ran" in the race from Palmdale, and serving as UCC in Dabney House and Manager of the Karate Club. Knowing almost enough Karate to protect himself (witness the hole in the Alley 4 wall), Dave is beginning cautious association with the opposite sex. Four years as a Chem E. has been a major factor in his decision to attend graduate school in ME (Caltech again).



**HERBERT RICE** FLEMING Whether scaling rocks or walls or hanging by his thumbs from a steep precipice or his balcony—Herb is a climber. Many buildings around old CIT has Herb rapelled. The very docile Ch.E. snake, Herb is aroused like a "Tiger" when you pull his ear or stop him from shaking. When he's not stuck on top of Mt. Everest, he's either playing a fast game of soccer, skiing, sailing, or just trying to get on the good side of his profs at the ACS meetings. Fleming will lose their best waiter when Herb leaves here for MIT or Princeton.



**ROLF RICHTER** OFF-CAMPUS Der Deutschland's gift to the Western World, Rolf was transplanted by his family to New York City, the better to disseminate Aryan propaganda. To his peers, Rolf's greatest achievement has been the maintenance of good relations with Mrs. P. of the A., which requires less skill than diplomacy. Rolf's facility with words has caused him to be judged the campus' liveliest cynic. He is thus admirably suited for his forthcoming work at Aerojet.



#### GUY ANDREWS

JIM BLACKMON

DABNEY When Guy first came to Tech, he was known as the wild driver from the high plains. After the loss of his car, he became a wild motor cyclist. Between accidents he has designed transistor circuits for the Naval Ordinance Test Station. Guy doesn't say much about his future plans, but they obviously include a girl named Judy, as well as a lucrative job in the electronics industry.

RALPH E. BREDEHORST OFF-CAMPUS Eric came to Caltech from that nearby community, Los Angeles. Having spent several years at Pasadena City College, he became a member of the class of 1961 in his junior year. During his junior year he held the post of Vice-President of the ASCE. Upon graduation Eric intends to enter the field of productive employment before attempting any further activities in the field of higher education.





Rocketing into Southern California from Charlotte, N.C. via Andover, Mass., the "little kid" left behind his basement rocket, and set out to learn how he had built a much-acclaimed missile. Tiring of playing the student, he branched into football and track. He became so destructive that he earned an Instructor's rating in Karate. He also became Dabney head waiter. Jim found money so attractive that he stuck through two years as Big T Business Manager. Cars being his favorite love, next to women, he is co-holder of the Los Angeles to Charlotte driving record of 48 hours. With his naive, innocent 'Who, me?'' look, he has trouble fighting off all his women ("But I'm a good loser.") Graduating in AE, the missile world is sure to feel Jim's presence in years to come.

DABNEY

BEN G. BURKE RICKETTS TBII A Brewterton, Washington man, Ben has combined hard work with ability to become one of the really outstanding mem-bers of his class. He is a four-year letterman in track and was Vice-President of Ricketts House. During track off-season, Ben contributed much to interhouse athletics. Ordinarily quiet and unassuming, one soon learns not to argue for the opposing side when Ben joins a discussion.

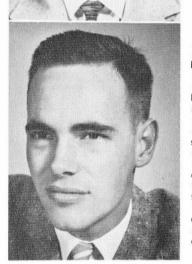
#### **KENDALL F. CASEY**

Although none of the other troops in. Ricketts can pronounce Ken's address in Hawaii, Honors-at-Entrance Casey has managed to accept his compatriots with near equality. Ken's reputation of being socially aware, mentally awake, and morally one-of-the-boys is aspired by many, but attained by few. Since Kendall is one of those leaders of

RICKETTS

DABNEY

men so seldom turned out by the Caltech AFOTC, he plans to let the Air Force help him continue his education.



JAMES Q. COE DABNEY

Jim is one of those fellows who couldn't bear to leave Caltech. Starting here in '55, he finished two years during which he played freshman baseball before a bout with Valley Fever kept him out of school for a year. He returned as a member of the class of '60 and ended as one of the select group of Dabney seniors who didn't graduate with their class. He finished at the close of first term and is now working for the highway department in Fresno. His time during the summer of 1960 wasn't wasted, though, as he occupied himself by marry-ing Ethel, the girl next door. Jim will always be remembered as the originator of Coe tokens; the A4EI society, and the ever-popular Coe trophy of Dabney.

#### DELMAR CURTIS

DelMar is an EE with much promise. He is one of the few who worries about each new difficulty, and he usually overcomes each one with few problems. His spare time is taken up with the Glee Club and in intimate hours with his fiancee, Myrna. After graduation, Del plans to put his engineering talents to work for some Bay area concern, but first comes the wedding bells, the date being set for shortly after graduation in June. Del is always cheerful, even when being kidded by his friends; he is well-liked by all, a situation which will undoubtedly follow him throughout his life.



23

## **ENGINEERING**



KIRK M. DAWSON

RUDDOCK

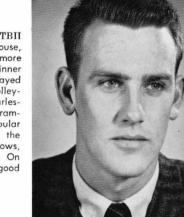
RUDDOCK

RODNEY D. DOKKEN RICKETTS Shy, quiet and little, aren't exactly the terms in which one would describe Robin Devon Dokken. In his Junior year at Tech, Doc ran for President of Ricketts House on the ticket that he had helped more people in any situation than probably any other man in Ricketts House. He was right, "Go ask Doc" was almost a password here, and he won and led Ricketts House to its best record socially, scholastically, and athletically in his generation at Caltech. Rod is useless, he always picks the wrong side and wins, just try praising the DAR or American Legion in his presence. After striving nobly through 4 years here at Tech, Doc intends to come back for more punishment as a grad student next year.

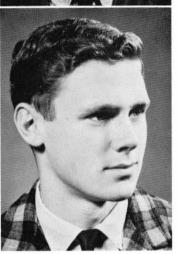
JOEL K. DONNELLY RUDDOCK TBII Energetic President of Ruddock House, Joel's blinking blue eyes proved more commanding than door bells and dinner gongs. He sang in the Glee Club, played in the Band, starred in interhouse volleyball, and excelled at dancing the charleston, babying a new car, and programming computers. He remained a popular and patient IHC president through the heat of battles on broken windows, scratched doors, and rotation plans. On the side, Joel found time to be a good enough EE to make Tau Beta Pi.

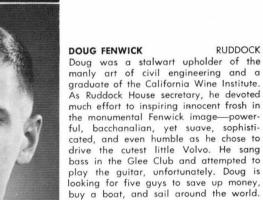
of Larchmont, New York, Don is con-sidered by the femmes as one of the "neatest" guys at Tech. The Seniors here, possibly on their girl friend's recom-mendation, elected him President of the Senior Class, and considering that he is from Ricketts, which is considered by some as political anathema, this is quite an accomplishment, proving that Don is one of the "cool guys" at Caltech. He joined the ranks of the off-campus, but participated actively in Rickett's athletics and social program; that is he played tennis and dated at least once this year. Don plans to continue his education.

RICKETTS DONALD B. FORREST One of those boys from the elite section











OFF-CAMPUS ANTHONY I. IWATA Stout Anthony Itsu Iwata has been something of a misfit at Caltech; originally intending to go to a good business school, he could not get in because of his not being Jewish, and he was forced to come to his second choice, Caltech. Itsu, as his friends fondly call him, has resented this ever since and has combined this resentment with his business sense into an amalgam ethos, as exemplified by his recent statement, "If IBM should decide to kill off all the Jews like Eichman did, it would be all right with me as long as my stock went up!" Conflicts have arisen because of his Caltech. incompatability with basic Brought up as a Seventh Day Adventist and having learned that the Creation was around 5700 BC, after taking geology, he was forced to moderate this extreme view and date the creation at about one million years ago.

In Itsu we see the meeting of many traditional opposites: scientific idealism versus business practicality, East versus West, science versus religion, and mind versus matter. It is anyone's guess which ones will win out. While at Caltech Itsu has been a member of the Chinese Students Association. Next year he plans to go to work for Southern California's growing electronics industry.



# ENGINEERING

FLEMING

RICKETTS



SIDNEY LEIBOVICH LLOYD TBII A prime example of the Ricketts House

political machine, Sid Leibovich has plowed through elections and committee appointments galore. Some aspersions have occasionally been cast as to the proper functioning of that machine; Leibo agrees -he lost an election for Rep-at-Large. It for BOC, House Social Chairman, ASCIT Treasurer, Tau Beta Pi Vice-President, ran admirably, however, through elections while the spoils system added the sinecure of Freshman Class President. Zeal for the commonweal and a humble recognition of civil responsibilities led to campus activities such as the Educational Policies Committee, Model UN, and circulation manager of the California Tech. Sid is allegedly studying Applied Mechanics and has managed to squeak by with two years of honor standing. "It was real easy" is his modest dismissal of the subject. With a mind towards the goal "well-rounded" Leibo spent two years each throwing and chasing (usually not far) the javelin and discus. For his heroic efforts in this area, he was awarded a letter. In a great Ricketts purge, Sid was sent to a new campus home, Lloyd House. There, with a small group known as the "Old Guard," Leibovich acted the elder statesman role and saw much sound advice discarded by callow youth.

#### LARRY LONG

#### Larry's biggest problem at Tech was teaching people how to pronounce the name of his home town in Ohio ("just south of Akron"), Cuyahoga Falls (say Ki-yoh-go Boo-Boo). Under the guise of being a shy, naive, likeable guy, Larry was chosen as

DABNEY

boo-bool. Under the guise of being a sity, naive, likeable guy, Larry was chosen as Dabney House Headwaiter and was elected Senior Class (of '60 that is) Athletic manager. His ability to blush at the drop of a . . . whatever one blushes at the drop of . . endeared him as house stoplight. After three years of varsity football, Larry was a pretty good tackle and has now joined the ranks of discouraged ex-frosh football coaches. As C.S.C.'s only reliability engineer, his future in E.E. looks secure.

#### MILTON S. LINDNER

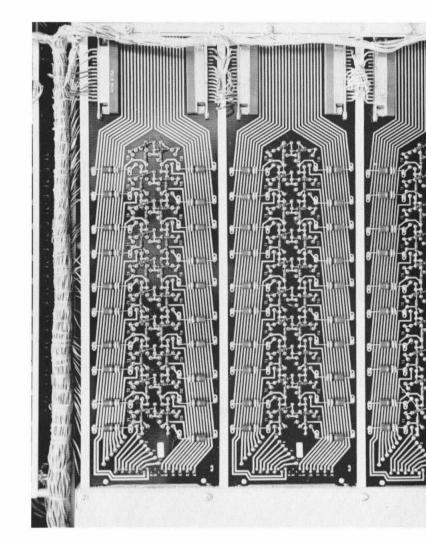
Mickey came here from clear-aired Denver. Apparently he liked gulping smog, because he immediately went out for swimming and water polo. The latter he dropped, but he has continued swimming for Tech and Fleming House, earning letters from both. ROTC also interrupted his concentrated snaking for three years, until he joined his many deserting classmates. Next year he plans to begin revolutionizing industry as an EE.

#### SERGE LOUSSARARIAN

Though nobody in Ricketts is able to spell or pronounce his last name, the Ricketts House Armenian, a transfer student from Cairo, Egypt, has managed to get along with the identification, Serge what's-hisname. When the house TV was kaput, Serge had to spend even more time studying and waiting at the Antheneum. Few men in his alley this year will forget Serge's strange devotion to his sink, and fewer still will forget that Serge always won in the few card games he joined, and his infinite supply of cigarettes. Next year Serge will stay on at Caltech.



# **ENGINEERING**





#### ROY H. MAKINO

It is common knowledge among the people who know him that Roy's pose as the strong silent Hawaiian type is just intended to keep his artistic talents under wraps. However, the news still seems to leak out before election campaigns, Interhouse dance, and other artistic projects, when Roy becomes House Artist by proclamation. Roy is most respected, however, for his influence with the powerful antishowering faction of the House. The most determined showering force dissolves when the whispered phrase spreads throughout the House: "Makino says no!" Roy is also a charter member of the Seniors' Volley-Bad-Tennis Club. He will graduate in electrical engineering and may continue study in graduate school.

BLACKER



IAN D. MARKS

FLEMING

WAYNE A. MASSEY

RUDDOCK





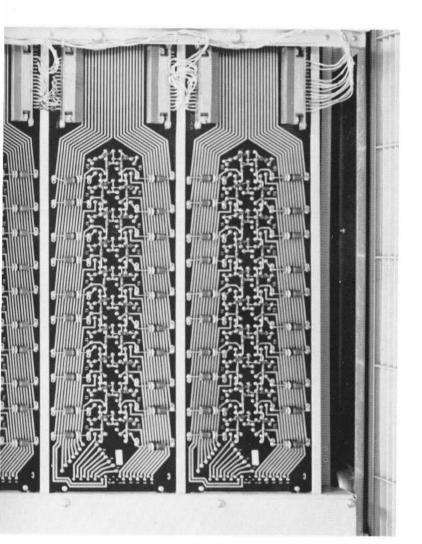
CHARLES A. RAY

RICKETTS A rare native Californian, Chuck is most envied for his perpetual ear-to-ear grin, and his faculty for snagging interesting summer jobs. He left the option-go-round at Guggenheim, as one of the few who know how planes come apart. Knee injuries forced Chuck to drop football at the end of his sophomore year, but left him more time to participate in other activities. Currently A.S.M.E. Chairman and Senior Treasurer, he has served Cal-tech in exemplary fashion, a precedent set by the earlier generation of Rays. In fact, Chuck's burning ambition has been to live up to his father's fine reputation. He hasn't. After graduation, Chuck will go to Slenderella.

#### DWAIN J. REED

BLACKER Dwain came to Caltech planning, like all frosh, to be a theoretical nuclear physicist. However, in his Junior year he switched options and took over the posi-tion on House Double-e, vacated that year by Larry Elmore. The duties of this office include broadcasting music continuously over the Blacker Music Exchange lines and playing badminton at least one night a week. When not tending to these duties he could be found leading the House teams as House Athletic Manager or playing volleyball or Fermi-particle-ina-box in the courtyard. With exposure to the humanizing influences of the Caltech Y and the Blacker Pseudo-Liberals, he has become interested in the social sciences and is tentatively planning to do graduate work in psychobiology.





#### NEIL R. RICHARDSON

FLEMING "Laundry and dry cleaning go out to-night." A hissing sound is heard, and a wet paper napkin strikes Neil's polka-dot waiter's jacket. In addition to laundry, this Seattle man's outside activities include interhouse cross country, interhouse track, freshman track, ASCIT dance class chairman, doughnut salesman, and Fleming House co-social chairman. The last activity he had to drop because threatened to flunk him out (along with the four other co-social chairmen). Neil's plans are to go on to graduate school and to return the laundry.



### **ENGINEERING**



ROBERT M. RUBY PAGE Bob Ruby is one of the best water polo players Caltech has had. A three year letterman and an All-Conference performer in his junior year, Bob was one of the big reasons the Beavers tied for the league championship this season. Aside from water polo, Bob is also a good skier, an interesting bridge player, and an outspoken critic of Barry Goldwater. During his spare time, Bob studies

MF

MICHAEL R. RUECKER RICKETTS TBII Another member of the A.S.S.S., this Phoenician came to Tech to study Chem. E. A gung-ho Ricketts frosh, Mike carried the brake drum to safety more than once and aided in interhouse athletics. He lettered in football and track but a knee injury and marriage confined his sports activities. Swift lab squelched his interest in chemistry and he switched to E.E. Mike has two children and is a member of Tau Beta Pi. He is coming back for a Masters Degree next year.





WILLIAM K. SHUBERT OFF-CAMPUS

Coming from a real pit (they take out 1 million pounds of copper a day-Morenci, Arizona), he soon fell in with that rowdy crowd from Phoenix, and became a charter member of the A.S.S.S. Along with this he was an active member (bridge, hearts, etc.) of Throop Club to the bitter end. Chem. 1 lab convinced this boy to go into engineering and those whizzing electrons had attraction, thus future plans include an MS degree in E.E. here at Caltech (some never learn) and a summer spent at J.P.L.

#### JERRY SIEGEL

Jerry came to Caltech from Brockton, Mass., and immediately began to make a great many friends with his all-American personality. Among his best friends were the deans and the registration committee, but most of us will remember him because of his reluctance to say no. This, coupled with his artistic and mechanical ability, led to the success of many Inter-house dances. He also was a good fullback and an excellent golfer. He is look-ing forward to five years of flying with the U.S. Air Force, after which he will go to work as an A.E.

DABNEY



# ENGINEERING







#### STEPHEN D. SLOBIN

Steve Slobin was his high school's vale-dictorian, getting all A's in every course he took. Steve, who came to Caltech as a freshman, has that rare blend of sensitivity and hustle that makes him likeable to everyone that meets him. After his arrival at school, Steve tried finding his niche at Caltech: neither frosh waterpolo (one day) nor frosh football (two days) seemed to suit him, and he quit each because of a fight with Coach Preisler; however, he finally found his place in IRE of which he has been an active member, and interhouse athletics where he has been one of the really spirited Blacker Indians. A prodigious reader, Steve's favorites are lonesco, photography annuals, and books on electricity and magnetism. Steve's immediate plans are for graduate work, and his farsighted dreams include a split-level ranch house somewhere in the San Fernando Valley, a nice white Protestant girl, and absorption by some big corporation.

#### JOHN R. SMITH

John came to Tech determined to become an Electrical Engineer. He has fulfilled this goal very well if the cries "Hey, Smith, how do you do the 106 problem" are any indication. Around Dabney House, John is noted as a perpetrator of clever stunts. He has also bored us all to tears with stories of his travels in Europe last summer. He has spent much of his time at the swimming pool, if not as a member or manager of the swimming team, as a life guard. John has also been active in the Student Shop and is a member of the IRE. After grad school, John will be designing clever devices for some lucky company.

DABNEY

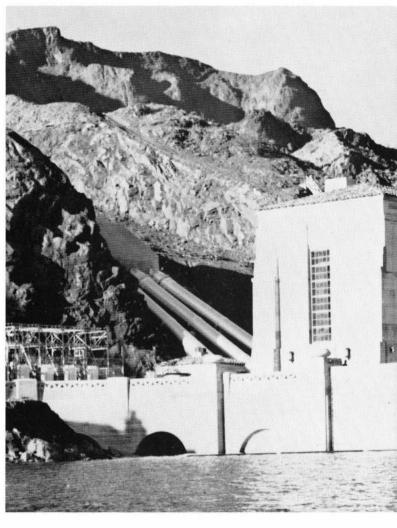
PAGE

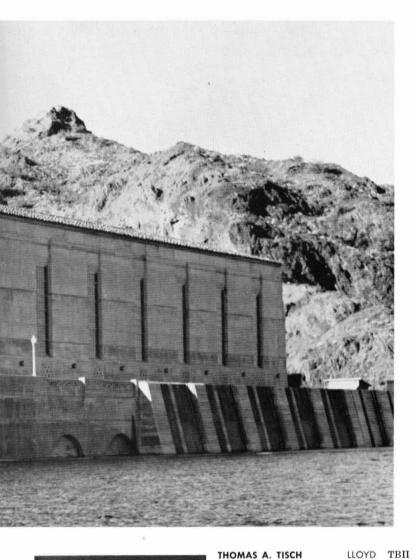
#### KAY SUGAHARA

Kay has always taken his card playing seriously. Most anytime he can be coaxed into a "friendly game" of most anything. When he plays, the kibitzers come from miles around to study his antics—no one plays cards quite like Sugahara. Kay has also distinguished himself as quite a golf player, a mainstay on the varsity squad. This year he expanded his empire by joining the Big T staff, certainly a noble gesture.

DABNEY TBII JOHN P. STENBIT On seeing Skip, Bert La Brucheric's little heart skipped a beat and his beady eyes brightened; for Skip is 6'-3" of brute force and was born to be an all conference tackle. Unfortunately, Skip was so weighted down with his honor certificate, honor key and T.B.P. bent that he couldn't make it to the football field; he collapsed at first base and earned three letters in baseball. As a defense mechanism (compensating for what he calls his "yellow streak" regarding football), Skip has participated heavily in extra-curricular activities earning a spot as a Beaver. Skip's future ambitions involve management, and after Grad school (Tech or Stanford) he will become a wheel at I.B.M.

SAMUEL R. SUITT DABNEY Sam decided shortly after his arrival at Tech that since nearly everyone around here was either a troll or a twitch, he should distinguish himself in athletics. After lettering in frosh football and baseball, his interest died, his weight increased, and he went in for more exciting pastimes.. He established several records such as (1) 34 minutes from Mt. Wilson to Dabney House in a '54 Plymouth, (2) staying up 110 hrs. without sleep during exams, (3) wall papering an entire alley with TS letters, (4) earning (2) \$2600 in one summer, (5) catching the worst case of mononucleosis on infirmary record, and, of course, he is co-holder of the L.A. to Charlotte, N.C. driving record of 48 hours. Sam will be remembered for a long time for his willingness to help Ol' Dabney and his fellow students, his foggy, glassy-eyed expression shortly after the beginning of each term, and his ability of snag cake from a blonde in a T Bird at 75 mph. Sam plans on getting a job, getting married, and getting an M.S., in that order.





## **ENGINEERING**





LLOYD TBII In spite of the fact that he made Tau Beta Pi as a Senior, Tom Tisch's advisor

swears that he has taken a major in extra curricular activities. As a freshman Tisch was captain of the freshman water-polo team, got elected to the ASCIT Board as Representative-at-Large, (the first), and finished the year as a member of the swimming team and Frosh Athletic Manager. Sophomore year he lettered in varsity waterpolo, and to the delight of his teachers showed a spark of interest in engineering by joining the IRE. As a junor (he ran for an office and lost) he wrote for the California Tech, then teamed up with John Todoroff to edit the Wretched Rag. His senior year, was highlighted by his selection as captain of the varsity waterpolo team, and subsequent choice as guard on the All-Conference Waterpolo team. At last notice, though, Tisch had decided to go on for a higher education, and was planning to take a Masters degree in EE from any school that would accept him.

CHRIST O. VELLINE RUDDOCK TBI

BYRON F. SUMMERS

#### DAVID P. TURNER

In addition to learning all the things a good EE should know, Dave learned the techniques for fixing elections as chairman of the elections committee. Since the outcome of football games can't be rigged, his presence as senior manager of the football team was to no avail. Dave also has been an active member of the student shop, and rounded out his extra-curricular activities by being a UCC in Dabney House. Dave is planning to continue his education in Grad school next year, then to put in 3 years as a lieutenant in Uncle Sam's Air Force before going out to make his first million.

OFF-CAMPUS

DABNEY

#### GARY O. WALLA

BLACKER Leaving his girl in San Diego, Gary came north to grow to manhood at Caltech. All in life is not electrical engineering he said, but developing socially. He prompt-ly joined Blacker House, ROTC, Glee Club and eventually the EE option. After three years of frivoling away from his home, with girls, music, rifle shooting, and EE, he decided to share his social wisdom and become president of Blacker, winding up his term by winning the Interhouse sing. He has also been voted the man with the best liked tool box on campus, received an Honor Key, and is an alumni representative. Gary found it easy to get a job if you're in ROTC. To prove how eager he is, Gary is marrying the girl back home and has promised Proctor and Gamble he can make soap bubbles electrically.





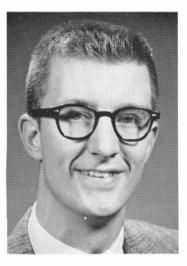


# ASTRONOMY

MILES W. McLENNAN

A member of the numerous Class of 1960.5, Bill came to the center of the known universe from Ohio. Besides an exponentially decaying CPA, among the things he collected at Tech were numerous friends, 2 swimming letters, a taste for hi-fi, a walk-on part in an ASCIT play, 4 trophies for junk collecting, and a beautiful wife. After bouncing harmlessly off physics, he settled down to his true love, astronomy. After graduation, he will appropriately enough become a sonar engineer and do his part to extend the arms race.

RICKETTS



### BIOLOGY

LELAND H. HARTWELL OFF-CAMPUS Originally from Glendale, Lee transferred to Tech following his freshman year at Glendale College. Ignoring the pleas of football coach La Brucherie, Lee dedicates himself to becoming an excellent biologist. For his efforts he achieved honor standing in. his junior and senior years. Next year Lee will venture to Boston and MIT where he will continue his studies in the field of Biochemical Genetics. With Lee will go his attractive wife Judy and young son Tod.





#### JOEL A. MICHAEL

Joel began as a typical gung-ho frosh physicist, but having "seen the light" he is finishing as a gung-ho biologist. During this metamorphosis he has also become a typical Fleming boor, as inveterate bridge player, a persistent JV soccer player, and as a manager, the slave driver of the swimming team. Rumor has it that he has become a beakish and somewhat less than infallible UCC. With this sordid background he is a prime candidate to become a grad student at some indiscriminant school, majoring in, of all things, neurophysiology!

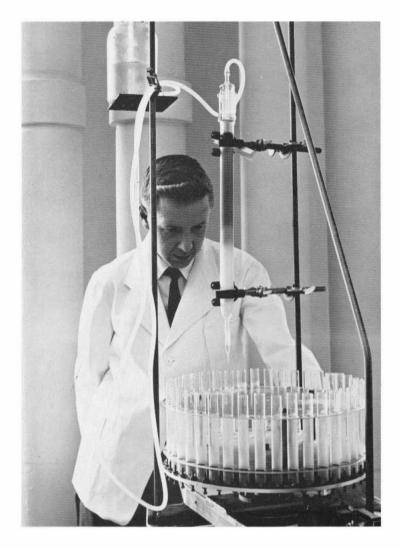
FLEMING

#### LAURENCE J. SLOSS

Larry is one of the most unusual characters seen in Fleming House in a long time. Whether this is good or bad depends on your point of view. At any rate no one can imagine Fleming without Larry. His socially approved activities have included being librarian and social chairman several times, but his genius has more often been applied to other activities. His familiar (unprintable) greeting to House members returning from dates have been a boon to four generations of Women are Evil Club Presidents and his church activities have brought salvation and baptism to courtless Fleming Men. Larry will undoubtedly be best remembered for his role in "The Sloss Case" and the subsequent Doug "Stalin' McLane dictatorship.

FLEMING





# BIOLOGY



#### DOUGLAS K. STEWART

RICKETTS

From the State of Northern California Doug came to us with all sorts of ambition to be a Doctor of Medicine and surprisingly enough after four years of science, leaves the same way. His room-mates must admit that he snaked a great deal, achieving amazingly good grades from this effort. Besides having a lot of the girls from Santa Barbara at his peck and call, Doug, a four year letterman in track, was athletic manager of Ricketts House in one of its most successful years. In his junior year he was elected to the ASCIT BOC, proving that not only Ricketts but also the rest of his classmates consider him one of the most responsible as well as stable individuals at Caltech. Doug is Stanford bound which ought to round out his education.



WILLIAM R. BAUER DABNEY TBII Almost from the first day he arrived at Tech Bill Bauer has been engaged in an extraordinary wide variety and large volume of campus activities. Every time he has left one activity or office to take up another, he has left with an increased reputation for efficiency, dependability, and initiative. These were the qualities he showed as a member of the BOC and later as BOC Secretary, as a Feature Edi-tor of the California Tech, an assistant editor of the Big T, member of the EPC, ASCIT secretary and most recently and most importantly as ASCIT President. Even more amazing is that while participating in all these activities Bill has compiled a first rate academic record. In spite of his obviously bright future as a chemist, Bill has decided to study psychology. He has been awarded a Marshall Fellowship so the next two years will find him studying at Oxford.

# **CHEMISTRY**

FLEMING

#### EDWARD T. EVANS

To the casual observer, Ed Evins looks like he's asleep. For four years, though, Ed has opened his eyes every spring long enough to play Interhouse football. This year his excellent quarterbacking led Page to an undefeated season—much the same way he led Ricketts to an un-defeated season his freshman year. When not playing football, Ed plays Chemistry.

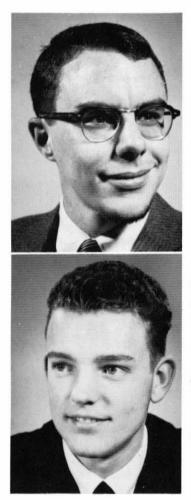
#### GARRET M. IHLER

PAGE

The Great God Garret, as he was known at times to his Sundry devotees and multitudinous detractors, began his checkered career as a Fleming man and wouldbe chemist by arriving on campus with his pelvis in a sling. In spite of the rigors of a Caltech education, it is still the same old Gary who will graduate this June with the rest of the remnants of the class of '61. Even a year as house president has failed to dim his jaundiced eye, nor has the groveling grind abated his cynicism one whit. Soon he will march resolutely onward, secure in the knowl-edge that whatever the future may hold, it might be worse.



### CHEMISTRY



ARNOLD R. JONES RICKETTS Coming from Manhatten, Kansas, Dick has managed to do more than hold his own in this melting pot of city slickers and big spenders. He studied about a third of the time, and sang with the Glee Club the rest of the time. His Ricketts House activities were House Sec-retary, as one of the Prexy alley boys, Pledge Master and a UCC. Ostensibly a chemist, Dick combines a lot of smart in chemistry with being well-read in the Humanities and an exceptional knowledge of electrical engineering, so he plans to come back next year for a BS in EE to add to his BS in Chemistry.

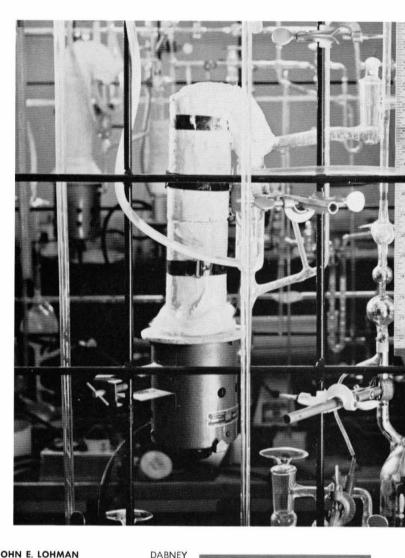
JEROME V. V. KASPER BLACKER TBII Jerry comes from the glorious San Fernando Valley—Van Nuys High. During his stay at Tech he was elected Social Chairman of Blacker House and president of the ACS club. He was elected to Tau Beta Pi in his junior year and was a member of the honor section of his class sophomore year. (What happened first term Junior year, Jerry?) The first three years his social life centered about a certain red-headed student nurse. He says that his two biggest mistakes were learning to play bridge during his Freshman year and waiting until his senior year to get married to the redhead. Future plans include a Ph.D. in Physical Chemistry hopefolly in three years at Cal Berkeley as an NSF fellow (for the first year at least!) past doctoral study in Europe, and then a large family while teaching idealistic young chemists like those at Tech.

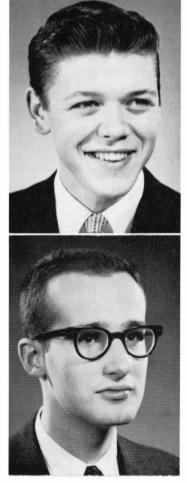
#### JOHN E. LOHMAN

Most people first remember John Lohman as the freshman who pitched for Dabney's softball team and had to brush a mop of hair from before his eyes after every ball he pitched. Since that time John has indulged in almost every kind of activity to be found on the campus and some that aren't. Active in Glee Club, YMCA, student guiding and IHC he has received letters in Tennis, and served on several student-faculty committees. He was very active in Dabney House, served as Treasurer and was later elected to lead the house as President. John drifted toward geochemistry and geology in his junior year but returned to the chemistry option, and plans to go to grad school in psychology and education. His latest weakness is planning skiing trips on the basis of which areas are closest to random female acquaintances he knows around the country.

#### ROBERT E. LONG

FLEMING It is the proud boast of Bob Long that he has done "practically nothing that anybody would consider worthwhile". Anybody would consider worthwhile. Most Fleming men would disagree, in view of his fruitful careers as House Historian, UCC, and finally as House Vice President. The chemistry department, his option, might also possibly disagree, considering the large quantities of research he has managed to cram into the interstices of his busy life. Bob has a talent for giving machines conniptions, especi-ally the computor, which shrinks visibly at his approach, and his largish motorcycle, which is usually in smallish pieces. Eventually, he hopes to do grad work in X-ray diffraction crystallography.





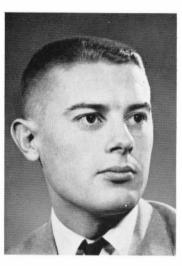


WILLIAM C. RIPKA

RUDDOCK

KARL H. POOL

RICKETTS A native of La Habra (somewhere in the vicinity of L.A.) Karl is one of those Vicinity of L.A.) Karl is one of those fortunates who can study during weird hours . . . in the mornings, Saturdays, before dinner, and after baseball prac-tice. This is fortunate since Karl wastes his evenings doing problems for the frosh and sophs in Ricketts House. When his did friend is the two did Karl wastes his girl friend isn't around, Karl spends his time as last year's Athletic Manager, as a UCC, as President of the PBCC, and as an occupant of the Ricketts House party room. Next year, Karl will be a TA and grad student at Washington.



# **CHEMISTRY**

RUDDOCK

#### OLIVER SEELY

OLIVER SEELY RUDDOCK In the days of olde there dwelt a Seely who was dubbed Sir Golly Ollie. He was enthusiastic. "Help! Help!" The cries of a fair damsel in distress arouse the goodly knight; "Golly guys, we've got to do something!" He was enthusiastic Ruddock something! He was enthusiastic Ruddock House social chairman. But lo, the storied fire breathing snake! Sir Golly is sore grieved and wails in anguish. He was enthusiastic Glee Club member. Undaun-ted, the brave hero unsheathes his sword and behold! The snake is smote in twain. He was an enthusiastic member of the Caltech band. Noble Ollie sweeps the maiden onto his steed, and sayeth "Gee, guys!"





ORTWIN A. WERSEL

FLEMING





#### HUGH H. KIEFFER

BLACKER

Hugh is well known as the strongest man ever to have a permanent medical P.E. excuse and as the most prominent senior geologist. He has been active in many things, including terms as BOC member, ASCIT activities chairman, and Blacker House Vice-President. He has also been one of the most active climbers in the Alpine Club. Hugh is headed for graduate school and Antarctica where he will probably get cold. Hugh will be most remembered at Caltech for his prodigious feats of strength and for often proving that Kieffer will do anything.



#### DOUGLAS W. SHAKEL

DABNEY

**GEOLOGY** 

Doug was so interested in the complexities of Caltech, that he took five years to graduate. Lured into the geology option, he soon showed outstanding talent for rock collecting, lunar geology and "big picture" geology.

geology and big picture geology. Doug's forte was the student houses, where he has made outstanding contributions to student life. As the "sage" of Dabney, his opinion was sought by many. A political dilettante, he led a successful coup to become Dabney secretary as a frosh, followed by house historian, IHC Secretary, and Dabney executive vice-president.

Talented, the effluent Mr. Shakel contributed literary articles on student life, kept visitors (and the News Bureau) happy as head guide, vocalized with the Caltech Glee Club, and served as Beaver secretary.

served as Beaver secretary. Hiding behind the protective wings of his beloved AFROTC Doug successfully managed to avoid contacts with athletics most of the time. He made a contribution, nevertheless, and the contest of strength and endurance known as "Shakeling" shall long remain a part of Dabney legend.

Doug appears to be headed for service with the Air Force upon graduation, but is ultimately destined to set up residence on the moon, or in Washington.

### GEOPHYSICS

#### ROBERT D. NASON

The YMCA would never have been the same without the efforts of dedicated Bob Nason, Y and UCC worker. At the sacrifice of more carnal pleasures (except for Geology), Bob devoted his senior year to being YMCA President. The work involved in this office is tremendous, but Bob did a fine job, setting a standard that is hard to follow. But more of an outstanding feature than his competence is Bob's friendliness, sincerity and enthusiasm, and his puzzling devotion to Geology Club.

PAGE



#### PETER R. VOGT

Born-Hamburg, Germany; U.S. 1947-1957; Caltech 1957-1961. Only nominally a geophysicist, Vogt's future is uncertain. Next year will be spent at the University of Innsbruck, Austria, under a Fulbright study grant. His project there will consist of skiing, mountain climbing, agitating for another Anschluss and other scholarly enterprises.

Upon return to the U.S., Vogt may continue scrambling up the academic ladder toward a Ph.D., or else slide down into the flophouse, continuing as an adventurer and bum.

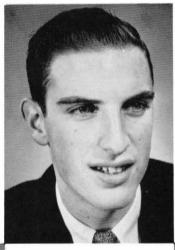
Vogt completes his Caltech sojourn with an unblemished record of non participation in school-centered social, political,

school-centered social, political, cultural and athletic activities. P. R. Vogt, a 4 yr. O.C. proudly nominates himself the number one campus out-of-it of the class of '61 and challenges anyone to match his record.

OFF-CAMPUS



LAWRENCE D. BROWN DABNEY TBII Ever true to his Beverly Hills background, Larry Brown (call him by his full name) is the quiet and unassuming (so he won't have to loan it out) owner of a blue Ford Falcon. He is also one of the top scholars in the senior class, his GPA's having earned him Honor Standing ever since he's been here. His years at Tech have seen him acquire the sophistication of travel, including a few weeks in Denmark, a whirlwind tour of the rest of Europe, and a brief (but not insignificant) stay over at Vassar on the way back. His other accomplishments include being President of Tau Beta Pi, Chairman of the ASCIT ExComm, member of the EPC, and varsity basketball several times letterman. Next year will find him at either Harvard, Chi or Cornell.



# MATHEMATICS



SHELBY L. BRUMELLE RUDDOCK Shelby goes off to work in industry after graduation, leaving behind him a truly indelible imprint in the history of Ruddock House. He is one who will always be remembered, for his friendly West Texas accent and his quiet, easygoing nature, for his revolutionary approach to beating the drums in the Caltech Band, for the sparkle he lent to so many house social functions, and for his religious avoidance of work, responsibility and ambition. But mostly he will be remembered for the beer stains left in Room 238.



ELI I. CHERNOW RUDDOCK TBII A math major headed for law school so that he can enter politics, Eli was the local campaign manager for Kennedy, Rudd Brown, and in general all things Democratic. Naturally he was president of the Caltech Young Democrats. He was also an active officer of the YMCA. As Ruddock House vice-president he interpreted the law with a strong sense of Fleming liberalism interspersed amid the traditional beakishness. He was elected to Tau Beta Pi.

## MATHEMATICS



THEODORE H. ELCONIN

THOMAS LAIN GORDON

But never fear The ice box is near—

frigerator Opener.

But we will claim It's a dirty shame

DABNEY

Why does the Olive Walk smell so queer? What makes Tom Gordon carry a leer?

Notable among TG's accomplishments at Caltech include Ruddock House Comptrol-

ler, Salton Sea Skinneydipper, 1.1 Crew Team Boatswain, Champion Alley 4 Re-

The Olive Walk will never smell the same.

Where Tom will go we do not know. What Tom will be we cannot see.

OFF-CAMPUS

RUDDOCK



DAVID FRIEDMAN

RONALD W. GATTERDAM

FLEMING

RUDDOCK



STEPHEN H. HECHLER

Steve Hechler was born in New York City, spent a good portion of his life in the wide open, boom town of Rutland, Mass., and now resides in San Leandro, California. He has served on the Caltech Y Cabinet for three years and received three letters in varsity tennis. Steve's unique style of making dinner announcements has assured that he will be long remembered by the men of Dabney House. He has definite plans to attend grad school at either the University of California at Berkeley or Wisconsin U., or Ohio State.

NICHOLAS S. MORE OFF-CAMPUS Upon graduating from high school I spent a year trying to decide what to do. Decided to go to college and started with Glendale. After a year and a half I came to Tech as a sophomore, switching from mining engineering to math. Spent much time commuting from La Crescenta, working waiter at the Huntington Sheraton, and bus boy at the Occonut Grove. Then after a portion of social life and some sleep, I found little time left for model building, chess, and poker. Future plans include the University, of Colorado and then teaching at the university level.







### CLEVE B. MOLER

### LLOYD TBII

### RICHARD S. NORMAN

Dick Norman, from Mexico, made many friends and participated in sundry activities, despite the above handicaps and a discolored tooth and fingernail. This was in no small part due to his ability to recite off-color phrases in Hungarian and Spanish, and his ability to stop a conversation cold. His activities have included, ASCIT Business Manager, ASCIT Activities Chairman, House Librarian, House Treasurer, and illfated marriage to D.K., Band, Frosh Football, Interhouse Athletics, and he has received an Honor Key and Certificate. Next year Dick will attend Michigan in Communication Sciences singe. Someone Burned his letters from MIT. Good luck to Dick in his never-ending quest to answer the Eternal Question.

DABNEY

### BLACKER TBII



### MARTIN H. SCHULTZ

Marty joined the class of 1961 late; he is one of the few members of the class to complete college in three years. In spite of the heavy academic load he has carried, Marty has managed to participate actively in the affairs of Dabney House, where his Boston accent has become a familiar trademark. He has served energetically as house Secretary for the last year. As seems to be the way with all mathematicians, Marty's immediate plans call for several years of grad school, after which he undoubtedly will make significant contributions to mathematical knowledge.

## MATHEMATICS

### HAROLD M. STARK

LAWRENCE F. SHAMPINE DABNEY TBII Larry came to Caltech fresh from Florida with math on his mind. If it was math that was on his mind you can rest assured that he would muster the energy and zeal to excell in it—and he has. A member of Tau Beta Pi he is a strong contender for academic honors. His enthusiasm for everything he undertakes is contagious and it enlivens the spirit of those about him whether it be in freshman basketball, house volleyball or crew. His most recent love is Karate. Convinced that it is a superior sport, he will not relax his efforts until he has at least a brown belt. Larry will continue graduate school at Caltech and then hasten into industry to add to the heritage of numerical analysis.

### JOHN F. WILKINSON

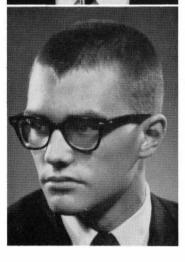
### DABNEY

Raised in the very shadows of the Golden Gate Bridge, in bustling Sausalito, Calif., John came to Tech with the infamous class of 1960. His solution of the Techman's perennial problem of what to do for more time to pursue his extracurricular activities will remain legend in Dabney House. It is brilliant in its simplicity and it is a wonder someone had not thought of it before—don't attend classes.

When he returned, John settled down to the hard work of the math option and soon became an honor student. He gained the admiration and respect of his instructors ("And just exactly what ingenious name do we give to this sort of group, Mr. Wilkinson?") as he did of his fellow Dabney House members, who bestowed upon him the office of htv (whatever that means). He was the acknowledged master of the art of crew in Dabney House, winning the Headlight Trophy, and helping the Darbs set the record time of 24.3 seconds on their way to the Acme trophy. He is the last of the old Scrooge players and is a good bridge player besides. It is hoped that he will be able to continue developing these and other skills he learned in Dabney as he pursues his graduate work in mathematics here at Caltech.

FLEMING TBII





## PHYSICS



**ROGER W. BLAND** BLACKER Since arriving at Caltech from Redding, California, Rog has managed to keep busy at physics, music, class activities and aquatic sports. Rog earned the respect of the water polo team for his subconscious growling during the rougher games and his consistent attendance (he didn't miss a day except when practice conflicted with his violin lessons). Rog plans to narrow his field of interest to

### RICHARD H. DREW

Physics at Berkeley next year.

Richard Drew is a successful example of a student interested both in science and management. At the school he has distinguished himself by an enviable record in the physics option and by his leadership in a wide variety of campus activities. Not one to be confined by Caltech's walls, he is a frequenter of the fine restaurants and theaters of the area. To utilize his pleasant personality and scientific ability he intends to work as technically-oriented management. As preparation for this goal his studies toward graduate degrees in electrical engineering and business administration.



DONALD E. FAHNLINE BLACKER Don's interest during college have been very diversified. For a while he was the rider of an eight foot high unicycle which he rode until it wore out. Then too, we must not forget his volleyball "spike" which helped Blacker win its games. But Don also had other activities. He was chairman of the Religious Emphasis Commission of the Caltech YMCA and through it he was very active in bringing other points of view to Caltech. The little publicized Institutions, a service organization, was headed by Don for three years. If you ever needed someone to help you and he was able, you could depend upon him to get the job done right. Don's future plans include Betty as of June 10th, and graduate study in Theology at the University of Chicago for a year to find out more about the world and then perhaps back to physics.

### JOHN L. EMMETT

DABNEY

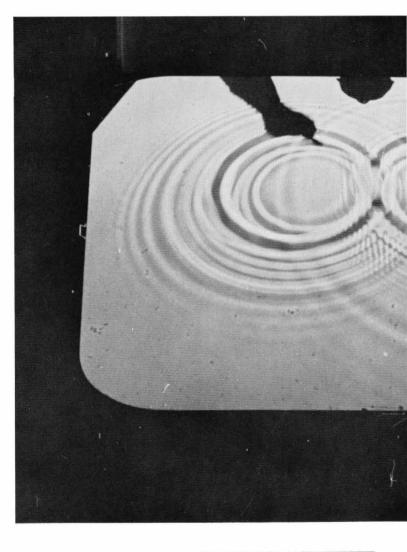
This carrot-topped nemesis journeyed all the way from Rochester, Minn. to be a plague upon authority in general and Neil Pings in particular. Even when he wasn't up to anything, his air of spurious innocence was a siren call to minions of the law, and a premonition of disaster to the populace at large. A glib tongue and fantastic good luck completes the picture of the man who will soon be loosed upon an unsuspecting world, there his wondrous misdeeds to perform.

FLEMING

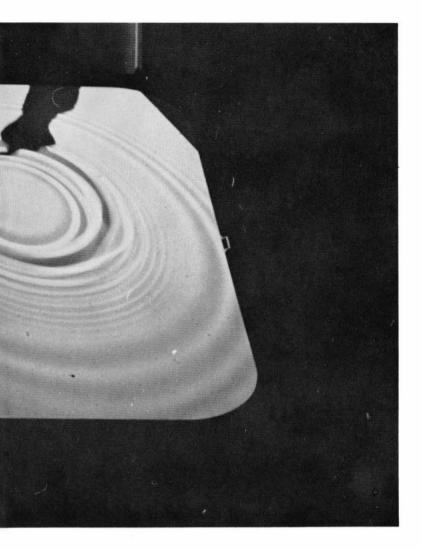
FLEMING

### ROBERT L. HEATH

Since Bob is one of those rare native Californians, no one has been able to understand why he came to Caltech. "Surely," they say, "he would have been smart enough to look it over before he came." Making the best of a bad deal, Bob has carved out an empire for himself, holding several of those mysterious YMCA positions and galloping across country in the service of his Creator. Fortunately Bob is an enlightened YMCA leader and frequently indulges in Wine, Women, and Song, as his darkened room Saturday nights will testify. Bob has also been active in Caltech sports (swimming) and House Politics (UCC of Fleming for two years).











BLACKER

THOMAS E. KEIL

Having been awarded the Harvard Book as the outstanding well-rounded student of his class at Harverford Senior High School, Tom ''It's fun to run'' Keil came to us with the following accolades: A National Merit Certificate, a General Motors Scholarship, Certificates for high scholastic attainments in Physics I and II, American History, Latin II, Algebra II, Plane Geometry, and Trigonometry, and a Certificate of Superior Merit for meritorious proficiency in Latin, having obtained a score of 101 out of a possible 120. Tom was awarded Honors at Entrance. Despite this, Tom made many friends in his five years as a typical Techman not the least of which was one F. Patty, with whom a most memorable evening was spent. Ah, youth. Ah, spring. Outside his studies, he managed to find time to be Blacker House Social Chairman and Athletic Manager and win many varsity letters. After a bit of trouble with Polycarp, Tom decided to come back to his Alma Mater for grad school. Tom will always be remembered for his husky voice.

DAVID C. KUBRIN

BLACKER

### RENT HUID

Bent's reverending search for an absolute qualifies him as one of Caltech's last romantics. He quickly replaced his supernatural yearnings four years ago with a sound belief in Plato's ideals. Bent now calls these ideals—physics. With such a religious background, Bent was a very successful turner of the Caltech crank. His goals in life are to add to human happiness by producing a few more kilowatts through his research in magnetohydrodynamics, and to further the Jewish tradition in the growth of Physics.

ERNEST G. JANZEN

LLOYD

BLACKER

STANLEY A. KLEIN BLACKER Stan Klein is not hard to notice as he lurked in leather jacket about Blacker House, the YMCA, the playing fields of Scripps, the hearing rooms of the House Committee on Un-American Activities, the garden parties of the radical left, and the summer plants of the missile makers. Yet to understand the motivations of his mystic's mind is a trying task. What can be concluded about a YMCA vice president who invites the Southern California Communist Party chairman to dinner yet, is at the same time playing up to the trots ky-ites, who not only pursues Phy-sics in search of mystical revelations but claims to find them in every PH 129 homework assignment, who with his daring and resourceful Danish companion, Bent Huld, keeps such stocks of liquor in their room at the Dubridges as would shock the daylights out of Dubridge and her weto cronies. Was he a communist trying to infiltrate. The "Y"? No, he was a Y-man trying to infiltrate the communist.

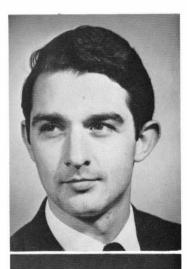
### JAMES S. LINDSEY

BLACKER It has never been reliably suggested that when Jim Lindsey appeared at Caltech the Deans looked and remarked, "trivial!" On the other hand, it has been reliably observed that Jim regards most of Caltech as failing in complexity and challenge, except possibly around humanities termpaper time. A diver and avid bicyclist, he plans to spend the summer at Hughes and then ride north to the (presumably) trivialities of solid-state at Berkeley.





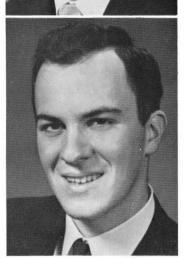
### PHYSICS



PETER I. LIPPMAN

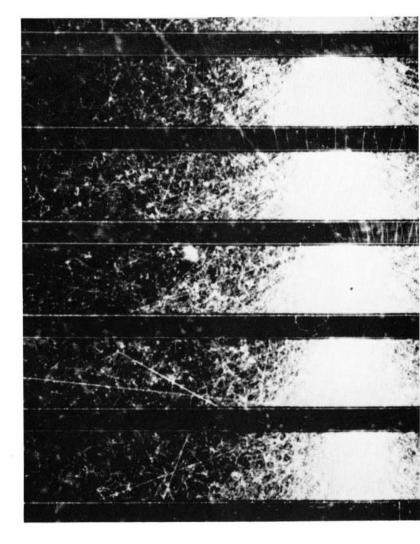
LLOYD 'Giggles'' Lippman throoped in from faroff L.A. each day for the first year and a half of his Caltech career, living, understandably enough, the stereotyped life of the Out-of-it. Now that he has added to his background the rich and varied experiences of social membership in Ricketts and residence in Lloyd, all his friends state that he is still out of it, but that it is no longer understandable. His activities included cross-country (two letters), track, the BOC, the Caltech Drama Club (vicepresident and villain), the co-social-chairmanship of Lloyd house, guitar-and folk songs-ing, letter-to-the-Editor of the California Tech, motorcycling-for-distanceand-breakdowns, and Alexes (the last mentioned lives in Santa Monica, which largely explains the next-to-the-last-mentioned). He thinks he is a Physics major, but knows very little about the subject and so is not sure.

RICKETTS TBII DAVID LOEBBAKA David entered Caltech from Lima, Ohio. Member of Ricketts House, Lettered frosh and soph cross country and frosh track. Married summer between to girl from home town and faded into social membership of Ricketts. Tau Beta secretary. Future: graduate study at University of Maryland, with hope of getting on the other end of exams, (giving instead of aettina).



### HAYDEN B. MACURCA

FLEMING Hayden came to Caltech from Pleasantville, New York, where he was soon to make his fame as Hateful (Snake) Matudy. He played on the Water Polo team and stayed on the swimming team until Water Polo finally gave him his charity sweater and a sweater to curl up in. His four years in Fleming were soon fo have an influence on him, however, when he became Fleming secretary, runner up for the most spastic waiter award; and discovered the beauty of Women, skiing, rum cokes and bottles bouncing off the Synchrotron. We will miss his tirades from the Fleming balcony as the Hateful, no-longer snake, leaves the fold of Cal-tech for Grad School or for the cruel, dark, out-side world, probably half asleep as always.



### STEPHEN J. LUNER

BLACKER Steve Luner, crazy as the day is long and brought up by an overprotective mother, has an uncle who is an elevator operator, this uncle has a son who is Steve's cousin, Melvin. During a recent visit of cousin Melvin to California, Steve took him sailing on one of the Caltech Sailing Club boats, which Steve somehow managed to sink. In addition to the Sailing Club, Steve's other activities at Caltech were being in the IRE, being Blacker House Pope, and writing sometimes funny articles. Steve's future aims include not listening to the last two movements of Beethoven's Fourth Symphony and a rumored study of oceanography at Scripps Institute. In oceanography he hopes to plumb the depths of the human condition.

### PETER C. MAYER

FLEMING Pete alias "The Mouth" has been around Fleming for years; although he is still one of the original Frosh. Being one of the true House characters you can always find him around the lounge expounding his philosophy, complaining or just being mayer; that is, if he isn't swimming or working for the YMCA. The one place where his mouth helps him the most is in his swimming being a three year letterman for his breast stroking. Giving up water polo in his sophomore year he tried his hand at soccer and was an outstanding addition. After three years at Tech, he finally saw the light and switched to economics. And so he spends all his free time busily snaking econ. so he can attend MIT next year. All in all, the people around here are losing a lot more than just a reason to saying, "Shut your mouth, Mayer".



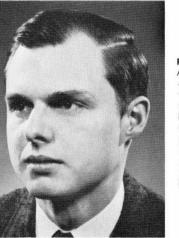




### ROBERT F. POE

Although ostensibly a Physics major, sournatured "R.F." has spent most of his four years at Tech dodging slide rules and taking Humanities courses. His chief seduction has been the Drama Club, for which he has acted several roles, including that of President for two years. As Social Chairman of Lloyd House, he played Cupid and Pandar to a small but growing "in" group. Poe also spent a summer in Europe as guest of the Junior Travel Prize Committee. Next year he plans to acquire what he calls an "undergraduate-education," by majoring in English Lit. at a Liberal-Arts college before settling down to that long Ph.D. program in Physics. Cynical Poe feels his major achievement here at Tech was his taking four courses from Dr. Stern,

LLOYD



**PAUL PURDOM** RICKETTS All the way from Philadelphia, Paul is one of the few people ever to complete the under-graduate program in three years. Paul has complimented his supurb intellectual achievement with active participation in the YMCA and Ricketts House social program. Paul's ability to maintain his GPA while indulging in such things as midweek dates makes him an often envied man. Next year, Paul will continue his guest of a Ph.D. at **Harvard**.

### PAUL D. McCORMICK

Paul, "Mac", joined the class of '61 at the beginning of the junior year from Santa Monica City College. His eye was firmly fixed on a degree in physics. The only thing that can compete with his devotion to physics is the beach, and this must be reserved until the summer months when he spends many pleasant week-ends with his wife at the ocean's edge. His attraction to the beach, it is to be clearly understood, is not a result of his four years in the Navy.

OFF-CAMPUS

BLACKER

Mac plans to continue his pursuance of physics in graduate school next year.

### GEORGE R. MUENICH

George read and discussed theology, sponsored continuous liquid parties, composed masterfully meaningless ROTC orders, sang in the Glee Club quartet and served as Glee Club president, and guided morals as a Blacker UCC in lieu of physics homework 99 44/100 percent of the time but fooled the instructors anyway. He heads for grad school in Germany.

SANDFORD P. POLLACK OFF-CAM

OFF-CAMPUS

BLACKER

### MICHAEL SCHWAB

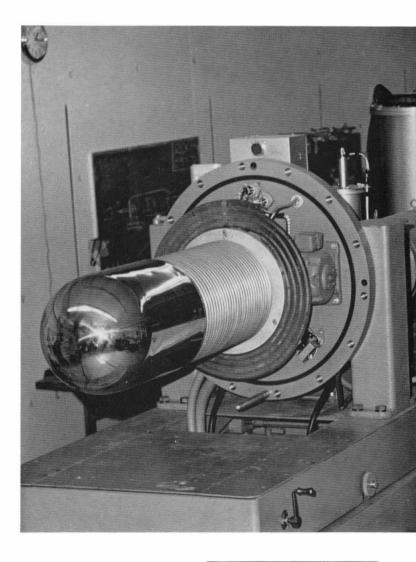
Returning from a summer of Junior Travel prize travelling, Mike came back for a miserable workless senior year. To keep in shape physically and mentally, Mike has been practicing folk dancing this year. Having found that Berkeley offers seven days of folk dancing a week, Mike will migrate there for a year. Besides folk dancing and physics, Mike spends his time trimming his cute curly hair to look appropriate for his dream of returning to a kibbutz in Israel.







## PHYSICS

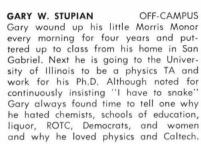


FLEMING

BLACKER



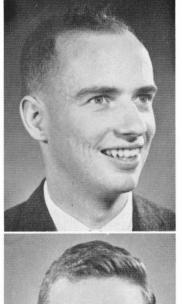
JOHN L. STROMBERG DABNEY John came from Piedmont, Calif. An errant member of Dabney House he also worked on the Educational Policies Committee and was a student camp coun-selor for three years. He hopes to do graduate work at the Scripps Institute of Oceanography.



HENRY A. THIESSEN Arch came to Caltech from Dumont, New Jersey, with the goal of studying Physics. After four years he still has his original enthusiasm and plans to come back next fall for graduate work in physics. During his stay here, Arch was a member of the Caltech Band and treasurer of Fleming House. Fleming men remember that when he was not at the poker table, he was most likely "commuting" to Pomona Col-lege to visit a certain female art student. Arch and Challis announced their engagement in February 4. They plan to be married "after she graduates" which will be during the summer of '62.



Arriving from the cultural center of the Midwest, Gary took to Caltech like a duck to water. Being a firm believer in a well-balanced education, he divided his time equally among the humanities, satisfying his PE requirement, and playing violin in the Blacker House string quartet. A slow starter but improving at every turn, Aquaman has left a mark for Caltech students to shoot at for many years. Since Gary was rejected from the Peace Corps for color blindness ("Those niggers all look the same to me'') and is determined to stay out of the Army, he has contracted to teach physics and judge turns at University of Illinois next year. He will take a well-deserved vacation this summer due to the acute advice of his faculty advisor, Dr. Trollstuff.





LLOYD TBII RICHARD S. THOMPSON Richard Thompson came to Caltech to become a physicist and leaves, after much grinding, only a little wiser, with the same ambition in mind. After being nurtured in the famous Ricketts House political tradition for three years, he decided to pass culture on to a new student house, and set up a respected UCC regime as Vice President of Lloyd. Culminating four years of Caltech Glee Club singing experience, he led his new house to their first defeat in the Interhouse Sing. If Harvard really wants him as a graduate student next year, he will generously accept.



JOHN A. TODOROFF RUDDOCK TBII John majored in extra-curricular activities, but minored in Physics well enough to make Tau Peta Pi. A journalist since grade school, John wrote stories, wrote headlines, took pictures, and sharpened pencils for the California Tech for four years, becoming co-editor as a senior. It was in this job that he discovered ASCIT incompetence and people who think too much about rotation. He also ran the ROTC and was Ruddock House treasurer. Most of the rest of his time was spent on long distance phone calls and ex-travagant dates like 1600 miles for Interhouse. John plans a Ph.D. in Physics followed by college teaching.



## PHYSICS

RICKETTS

BLACKER



JOHN B. TRENHOLME FLEMING One of Trollhole's first steps on arrival at Tech was out of a window, a move which neatly eliminated for him the more onerous aspects of the PE program. While nominally a physicist, his devotion to the call of science is by no means single-minded. A visit to his room reveals forays into weird cults and even stranger electronics. On his door, a social chairman's sign peers disconsolately through a thicket of religious tracts and other curios; within, a pair of beady eyes glower behind a miasma of sinister contraptions. This is Troll Knoll, which will one day disgorge its musty contents and grubby occupant into the waiting arms of some lucky grad school.

BLACKER

### CLYDE S. ZAIDINS . . While from the firmanent he spake, The music of the spheres remake. Dante, De Vulgari Eloquentia Portly Clyde Zaidins, affectionately known

as "Burly C.Z.," is most celebrated for being cavernously umbilicate. Adipose Clyde, half-Gentile, has distinguished himself by participation in many activities, to wit: Honor section, BOCVC, House VP, SNH Club, Beavers, TBPi, Potentate of the Syndicate, ASCIT V.P., House Secre-tary, Carole Olsen Fan Club, House letter, and Honor Key and Certificate. Pursy Zaidins, a pillow buff, after a short cunctation will take the vows with win-some Flo of Columbus, O., a shag rug buff. Roly poly Clyde, not the son of a butcher, will return to his Alma Mater for araduate studies.

### BRUCE T. ULRICH

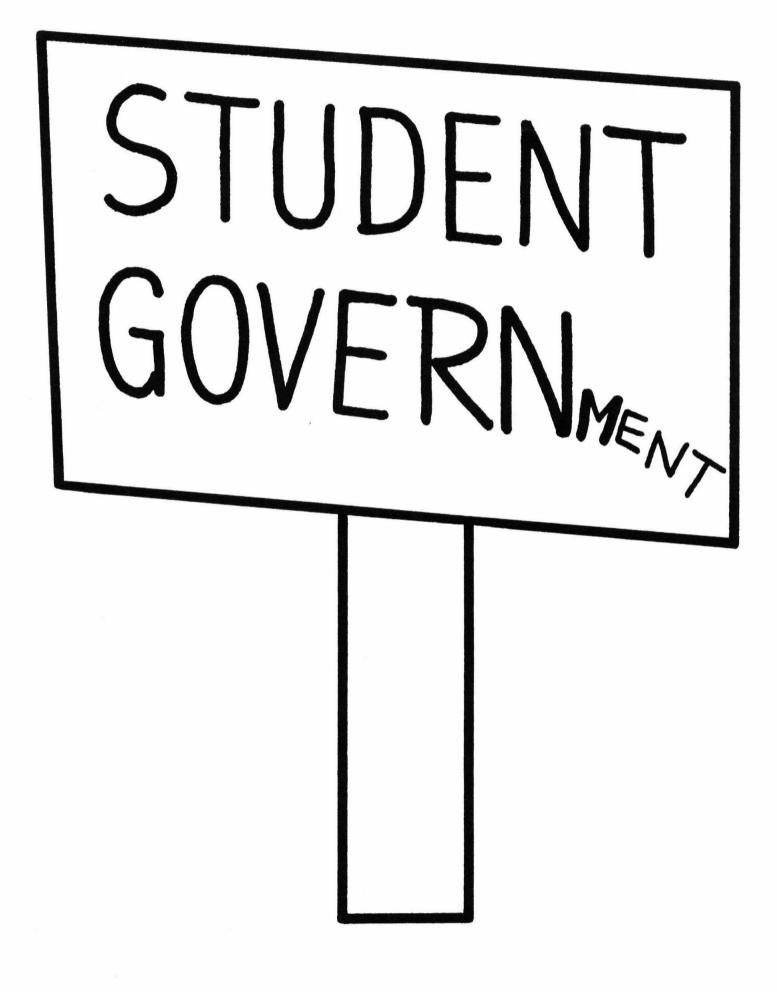
Inquisitive Bruce, besides being a gungho physicist, has contributed considerably to his Caltech home, Ricketts House. His interest in Caltech academics has led to his position of EPC chairman. Bruce's ravenous appetite, resulting from such activities as tennis, mountain climbing, and skiing, has often left him hungry after student house meals. But the main part of Bruce's waking hours are spent in furthering his knowledge and understanding of Physics (snaking). After this year Bruce plans to attend (\_ \_), for more work in his chosen field.

### DAVID W. ZIMMERMAN

Dave came to Caltech from Waukesha, Wisconsin, with a slightly less than burning desire for a Physics degree and a smiling good humor. Turning to tennis instead of women to expend the energy he wasn't pouring into PH 112, Dave has become, in three years of varsity play, one of Coach Lamb's most treasured right-court doubles specialists. Dave hopes to avoid any more specialization next year when he will pursue an advanced degree in Physics and a II-S.









Top, left to right: Roger Bland, Vice-President; Don Forrest, President. Bottom: Chuck Ray, Treasurer; Bob Ruby, Athletic Manager. Not shown: Tom Keil, Secretary.

## CLASS OF '61

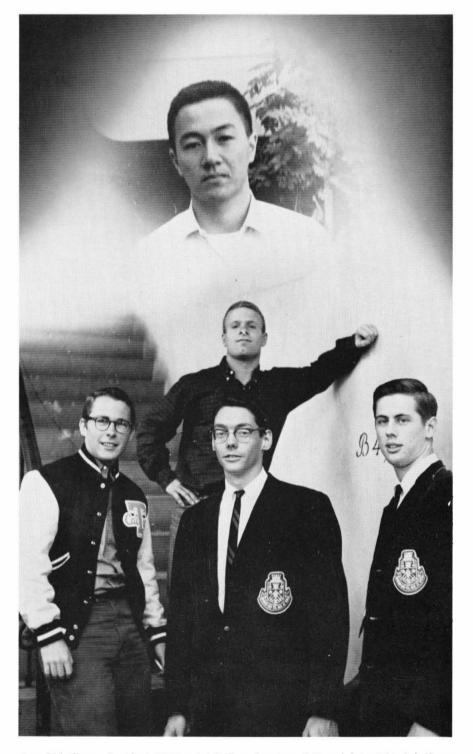
Caltech circa '57-'61 was a school in transition. So too was the class of '61. From what? We do not yet have twenty years perspective; merely an inkling. The transition was from a time when you could be a science major and still be thought of as somewhat queer. It was a time when you could be an engineering major and take "Materials and Process'. It was a time when college boards were fun.

Where did the class of '61 stand? It was the last class to use a calculus book by Phillips. It was the first class to occupy the new houses as seniors. It was the class which heard Dr. DuBridge's new student camp speech on the challenge of science and technology and had it echoed round the world exactly two weeks later by something called a Sputnik. If there was a problem for the class of '61, perhaps that was it. The admission committee had selected them just a few months before scientists, engineers, and the education thereof became a national preoccupation. Forty percent of the original group demonstrated that 800's on college boards were not enough to catch the Russians within four years.

The remainder were quite human. Precocious frosh Bill Bauer and Cleve Moler remained precocious for almost four years. Stan Sadjera won three' Interhouse Sings. Clyde Zaidins remained happy. What is the transition aimed toward? Twenty years from now these men and the hundred forty others may be able to say. In the meantime the world changes too fast.

We all wish the graduating seniors the very best possible luck in the future and hope that they will be successful in all their endeavors as they leave the sanctuary of Caltech and prepare to face the cruel outside world.

## CLASS OF 62



Top: Dick Chang, President. Middle: Art McGarr, Secretary. Bottom, left to right: Bob Hearn, Athletic Manager; Gary Turner, Vice-President; John Curtis, Treasurer.

The class of 1962 claims to be one of the most talented classes to have entered Tech (as does every other class). Academically, this argument is supported by an abnormally low drop-out rate. As the first two-hundred-plus class, it was the first to create freshman section K. This now-notorious section has stuck together and has perpetrated such schemes as the "Little K", a humorous scandal sheet which exposed much of campus life for what it was. The great Rose Bowl fiasco also was conceived and accomplished by these members of the class of '62.

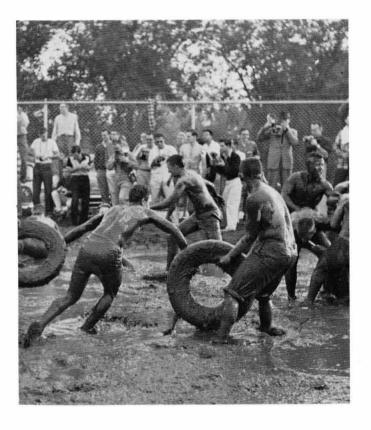
In the individual student houses, the class of '62 has contributed greatly to the spirit and the activities. Although the student houses are the nuclei for student activities, the friendly rivalries present there has not interfered with the overall spirit of this class. In any school organization, from ASCIT to the glee club to the YMCA, the class has been well represented.

More can be expected of the class of '62 next year, for it will have reached the pinnacle of Caltech greatness — the senior year.

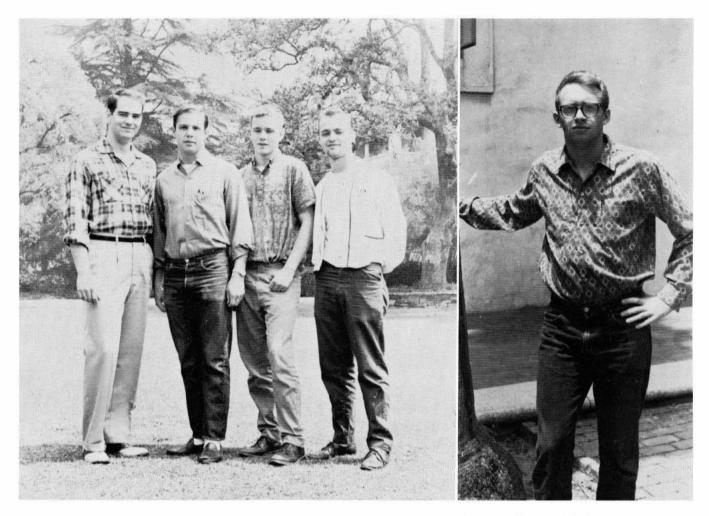
## CLASS OF 63



Left to right: Henry Abarbanel, Secretary; Jim Sagawa, Treasurer; Ken Manley, Vice-President; Art Robinson, President. **Not present:** Pete Fischer, RIP.



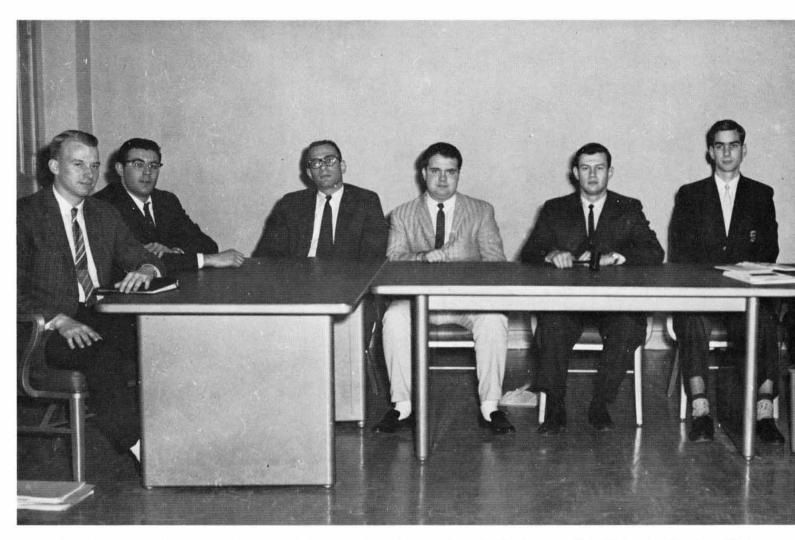
The class of '63 was supposedly the smartest class ever to be at Caltech. Perhaps this explains their unusual interest in promoting school spirit and preserving Tech's few traditions. Under the capable leadership of Art Robinson, the class organized and supported beach parties and other extracurricular activities. After showing them what organization will do by leading the sophomore juggernaut to victory in the annual Mudeo, the officers of the class of '63 worked closely with the freshmen officers to prepare them for their new jobs. This unprecedented cooperation resulted in such activities as the cleaning of the ''T'' on the mountain. All in all, the class of '63 displayed a marvelous attitude of responsibility to the school.



Left to right: Tom Deklyen, Vice-President; Steve Gorman, Athletic Manager; Al Gillespie, Treasurer; Tom Reubel, Secretary; Art Turner, President.

## CLASS

OF '64 This year the Executive Committee of the Class of '64, composed of the class officers and the section leaders, undertook the job of building a class organization for the new freshmen by sponsoring several class activities. During first term, the activities included a beach party, held in conjunction with the Class of '63, and a stag party to help post-midterm blues. Second term brought an expedition to the mountains to plant barley on the ''T''. Third term found the class busily engaged in planning the freshman-sophomore dance, May-lei, which the freshmen ran for the enjoyment of the two classes. Thus they paid for their loss (due to questionable judging on the part of the ''impartial'' juniors) to the sophomores in the annual Mudeo extravaganza held first term.



Left to right: John Golden, Business Manager; Dick Norman, Activities Manager; Sid Leibovich, Treasurer; Clyde Zaidins, Vice-President; Bill Bauer, President; Dave Pritchard, Secretary; Tim Litle, Social Chairman; John Arndt, Athletic Manager; Jim Sagawa, Representative-at-Large. **Now working else**where: Bob Juola, ex-Athletic Manager, and Chuck Brooke, ex-Representative-at-Large.

> On Monday nights a small power trust representative of our affluency meets to discuss the fate of our lives, fortunes, and sacred honors. After the long hours of budget planning, this Board of Directors turns its attention to other routine nonsense of appointing various officers and committees, some of which would actually affect student life. Then the By-Laws get revised once again which will probably not affect anyone too much.

> This year the loyalty oath controversy generated some heated enthusiasm. Board action helped solve the parking



## BOARD OF DIRECTORS

thefts problem with the cooperation of the Physical Plant Department. Two new organizations joined our ranks: the Young Democrats and Civil Defense. There also was the abortive attempt to curb the pretentiousness of the BOD by changing its name to "Student Council." This was after a successful amendment which changed Article IX to X of the By-Laws and vice versa. All this did serve to break the clouds of apathy that pervade college life — at least temporarily. Perhaps our successors can help reduce the lack of communication. . . .



BILL BAUER A.S.C.I.T. President

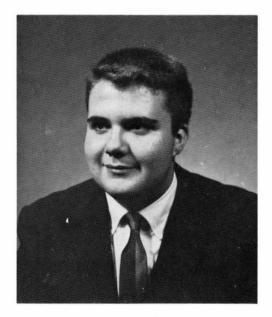


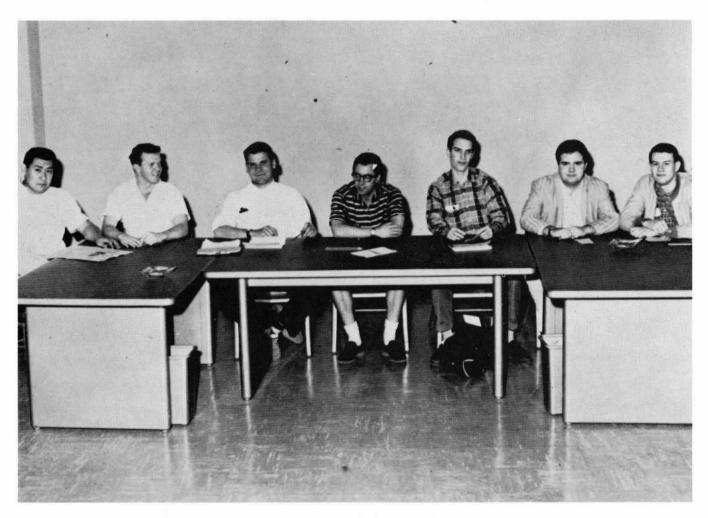
Left to right: Bill Bauer, Gary Mitchell, Larry Rabinowitz, Ben Burke, Jacques Calma, Clyde Zaidins, Spicer Conant, Tom Bopp, Doug Stewart, Dean Gerber, Carl Hamilton.

## **BOARD OF CONTROL**

The Board of Control is one of the few groups which is really taken seriously around Caltech. The Honor System is one of the sacred institutions here, and the BOC is the executive group for the Honor System. Ordinarily, the BOC handles few cases of violations of the Honor System, but it is in charge of the interpretation of the System.

With more than forty years of success behind it, the honor system is clearly one of our most valuable assets of which we may well be proud.





Left to right: Bill Bauer, Clyde Zaidins, Larry Brown - Chairman, Lance Taylor, Doug Shakel, Dave Bowman, Bob Koh. Not pictured: Cleve Moler.

In spite of its name, excom has no executive powers whatsoever. Its sole job and power is to gather information and opinion and give advice to ASCIT. Hopefully, the committee will depend more on the information than the opinion.

One of the main topics this year was rotation. ExComm originated several plans which were presented for general opinion. The final decision was to suspend rotation for a year until the new houses could get under way. The discussion was deferred to next year.

## **EXCOMM**



Left: Joel Donnelly, IHC President. Right: Larry Sloss, IHC Secretary.

The Interhouse Committee's purpose is to promote harmonious working relationship between the houses. The Interhouse Committee decided not to have rotation for another year. It was hoped that by then the houses will have completely lost their character (?).

> Elections this year were loaded in the usual two or three ways. The most hotly contested issue was the future name of the BOD. The second most hotly contested was Ascit President. The third .... Oh well, forget it, everyone else has. The election rally was good, anyway.

**INTERHOUSE** 

**COMMITTEE** 

Left to right: Larry Seide, John Denyes, Julian Prince, Dave Turner - Chairman, Warren White, Ray Fernandez, Henry Abarbanel, Tom Bopp.



## ELECTION COMMITTEE

## EDUCATIONAL POLICIES COMMITTEE



Henry Abarbanel and Dave Krubrin. **Not pictured:** Bruce Ulrich, Lance Taylor, Steve Caine, Skip Stenbit, John Stromberg, Kent Frewing, Chuck Radoy.

Since its creation, the EPC has played an important role in student life. The most graphic example was the sweeping curriculum revision which it helped to effect. This year the principle investigations concerned honors sections, combined English 7 lectures and undergraduate research. There are few American colleges where the students' opinions are so warmly received by most of the faculty; we should be extremely proud and grateful that our community can work together so effectively.

Ideally, the student-faculty relations committee should consist of all the undergraduates at Caltech, plus all of the faculty. Since this is not a practical course, the 1961 committee was the next best thing. Anyone who wanted to attend could, and all of the campus organizations had representatives. As a consequence, all involved have a considerable better insight into the minds of the "aliens" than before. Good.



## STUDENT FACULTY RELATIONS

PROF. C. J. PINGS, JR. Faculty Head of Student-Faculty Relations Committee





# HOUSES

## **RESIDENT ASSOCIATES**



JOHN P. ANDELIN **Ricketts House** 

ROBERT G. RINKER Ruddock House





PHILIP O. BANKS Dabney House

ROBERT D. RYAN Page House







WILLIAM F. DOVE Blacker House

RICHARD H. STANFORD Fleming House

NOEL D. JONES Lloyd House



House Officers: Hugh Keiffer (Vice-Pres.); Bob Riller, Dick Robertson, (Librarians); Ed Miller (Social Chairman); Al Pfeffer (Secretary); Gary Walla (Pres.); Joe Bockelage (Treas.); Dwain Reed (Ath. Manager).

## **BLACKER**

### THE EARLY MORNING VISITATION OF EGETH

It is night. Dwain Reed, Jim Johnson stand in the Blacker Courtyard.

REED Soft, what is that?

JOHNSON

Methinks some form draws nigh.

REED

Halt, who goes there!

PRITCHARD

A friend and man of Blacker.

JOHNSON How quietly you came upon us, Pritchard.

### PRITCHARD

Why, if that ghostly form of which you spoke Again appears tonight as is its wont I fain would make no noise to give it fright REED

In sooth 'twas at this very hour of night The time the manhole cover up in Hell

Commenced its clatt'ring on the concrete floor The spirit last was seen here PRITCHARD How looked it? REED It had the very form and countenance Of Howard Egeth who was freshman here The year I was myself, 'twas fearful sad. PRITCHARD By the Rood, Reed, thou hast me scared. The manhole cover starts to clatter on the concrete floor in Hell. JOHNSON Look, it comes. GHOST Oh . . . Ooooh . . . . OOoooOoH . . . . . oooooooh REED Speak to it, Pritchard; well it knows thou art A physicist, for listen how it moans



Seniors, 1st Row, left to right: Roy Makino, Dave Kubrin, Mike Schwab; Al Pfeffer. 2nd Row: Geo. Musnich; Clyde Zaidens; Bent Huld; Dick Norman; Tom Keil, Hugh Keiffer; Gary Walla. 3rd Row: Don Fahnline; Dwain Reed; Jim Lindsey; Dave Drummond; Stan Klein.



Juniors, 1st Row, left to right: Fred Charette; Al Bernstein; Al Pfeffer; Dave Pritchard. 2nd Row: Ed Miller; Wendell Ing; Barry Gorden; Larry Altman. 3rd Row: Al Whittelsey; Pete Hammond; Dave Kauffman.



Sophomores, 1st Row, left to right: Barry McCoy; Jim Johnson; Al Pfeffer; Hal Harrison; John Sovari. 2nd Row: Eric Neumella, Dick Sears; Bruce Carter; Dick Robertson; John Caywood; Dave Clark. 3rd Row: Dan Schwartz; John Lindsey; Lee Samuelson; Steve Maston; Karvel Thornbar; Dave Large; Randy Ware; Bob Diller; Kurt Anderson.



Freshmen, 1st Row, left to right: Herb Chen; Dave Hearn; Carter Nayler; Bill Cheng; Al Tyrrill; Bill Schoknecht. 2nd Row: Larry Weaver; Steve Farber; Dave Dixon; Art Johnson; Steve Teigland; Carl Woebcke; Tom Latharn. 3rd Row: Pete Mazur; Rob Gorden; Gunthrie Miller; Ed Lee; Bob Greenwald; Pat Dunn; Dave Kubrin; John Wheeler; Mike Ball; John Madey; Tom Krusger.



Chemistry professor Jurg Waser discusses his field with Blackermen.

### PRITCHARD

Speak, be thou goblin damned, or wave-like form Exiled from Earthly probability By physics' laws, I conjure thee to speak Explaining why thou stalkest through our halls GHOST

I come here as the ghost of Blacker Past The slow degeneration of the House Has long ago progressed beyond the point Where I'll endure it.

### REED

Canst thou know of this?

### GHOST

All souls who here on Earth no longer dwell Have open views of Heaven, Earth and Hell

### PRITCHARD

What hast thou seen, speak up thou ghastly sprite Why walkest thou through Blacker House by night And thou dost to us these secrets teach

I pray thee change to prose thy antique speech.

(The ghost gestures, a dumb shew of freshmen appear. A hidden chorus heard singing:)

### CHORUS

Hail, house of Blacker, the house of individualists Who, in rotation were sometimes the residualists In the world of Science

You will hardly find a slacker

Who is not outslacked by

Some courageous man of Blacker. -Blacker Hymn, 1961

### GHOST

This is the freshman class of 1960. There was no rotation and what a mess! Piano players, cellists, lock pickers, athletes, model airplane builders, not a true Blacker frosh in the bunch. Look at them dash about campus shouting "Cuba Si, Yanqui No" like a bunch of Havana Reds. And when Eric Adelberger comes around dressed as Castro smoking a vile cigar do they shower him right away as in the old days? No, the juniors have to show the freshmen how. Well, its too late to change them now, the oath of initiation is solemnly being administered by Gary Walla.

FROSH

"If I forget thee, O Blacker, may my right arm lose its cunning, may confusion be visited upon my house, and may all my percipitates be colloidal."

### PRITCHARD

They're sworn in all right.

### GHOST

Yes, and now for the Lounge Run where every freshman is supposed to get showered and Dave Kubrin is waiting with stooges to start his underground railroad to get the frosh out of the lounge without being officially baptized. The phony showering crew is supposed to release them once it gets them out into the courtyard.

### JOHNSON

Well, we didn't let them get away with it.

REFD

All they got for their efforts was a trip to the showers themselves.

### GHOST

True, but the fact that they almost did get away with it shows that there is a strong growth of antishowering sympathies developing in the house degenerates. But now the freshmen are soaked and are starting to think of the Interhouse Dance. The courtyard after the Ricketts waterfight was left a soaking steaming swamp, which gave Mike Townsend an idea.

### PRITCHARD

And a pretty good idea.

### JOHNSON

A pretty lousy idea.

### GHOST

In the good old days when Blacker was Blacker (or is it blacker) we had ships, dragons, odysseys. Each year we tried to turn the courtyard from a swamp to something decorative. This year you leave it just as a swamp and our Spanish ruin of a lounge as a Spanish Ruin.

### REED

We called it following the grain, bending with the wind, not fighting the current.

### GHOST

I thought it was a lousy dance, and with a lousy week of finals not too long after it was no wonder Dell Trott flunked out.

PRITCHARD

### Trott?

### GHOST

Last of the Real Blacker men. Once he left the whole second term was ruined.

### REED

What happened second term?

### GHOST

Nothing, that was the problem. We came in third in interhouse tennis, fourth in interhouse track, nondescript positions if such things ever were.

### JOHNSON

We got Pritchard elected House President second term.

### GHOST

Yes, but only after he lost in the ASCIT elections. JOHNSON

We came in among the top 3 in interhouse sing. GHOST

And you had a snow party with no snow.

PRITCHARD

That didn't bother us. No, the men of Blacker didn't feel discouraged second term.

### GHOST

Oh yeah, listen: (voices off stage)

- q. Curt Strobeck, what was the most important thing that happened to you at Caltech this year?
- a. I don't know.
- q. Your ex-Holiness, why did you resign from the papacy of the Blacker Church this year?
- a. It was against my religious principles, I felt.
- q. Mr. Zaidens, what does Blacker House mean to you?
- a. HOUSE:

assembling	gathering	convergence
forgathering	collection	ingathering
concourse	conflux	congregation
rendevous	mobilization	contesseration
levy REED	coligation	collocation

Yet we were still having fun second term. Consider, for instance, the trip made by Mastin, Pfeffeffr, Numela et al to Tijuana.

### GHOST

But did they have sense enough to stay there?

### PRITCHARD

Who says Blacker isn't as exciting as TJ? The off campus parties, the bridge games, the exchanges. OFF STAGE CHORUS

Here's to the parties that raise us to

deleriousness

Here's to the studies we treat with utmost seriousness

For each human action

You are sure to find a backer

Midst the denizens of

That enchanted realm called Blacker.

### -Blacker Hymn, 1961

### GHOST

O.K. then. What was the most exciting thing that happened to you at an exchange?

JOHNSON

Well, one time when an exchange got dull we hitchhiked to Bakersfield.

### GHOST

Enough of that. If second term was bad, third term was worse, no one was even here. Pritchard disappears, leaving a rumor that he's been married. Chris Larson, who lived in Page, but was a Blacker man to the end, flunked out. Also, there was the Syndicate.

### JOHNSON

That gang of gallant beach bums?

GHOST

The fatheads who drive for four hours so they may sit on the sand for two. Then everyone else is busy looking for summer jobs in the war industries. A great crew, they go to ACLU meetings and peace marches in the fall, then sign disclaimer oaths to works for Hughes in the summer.

### OFF STAGE CHORUS

Who will defend us from Communist Imperialists Dialecticians, Hegelian materialists,

Who'll design the warheads

Who'll man each Sputnik tracker?

None but the noble men who

Leap to their country's call from Blacker. —Blacker Hymn, 1961

### PRITCHARD

Look, Egeth, even if you did live in Blacker three years ago, you don't have to take such a hostile attitude.

### GHOST

I have to and I will. I shall stay each night from when the manhole cover rings till when the cock crows..

(With the sound of a cock crowing, the ghost vanishes and Stan Klein appears.)

PRITCHARD

How did you do that?



House Officers, left to right: Jim Blackmann (Headwaiter); Frank Ridolphi (Social V.P.); Wendell Mendell (Comptroller); Chuck McBurney (Ath. Mgr.); Doug Shakel (Exec. V.P.); Harold Haskins (Ath. Mgr.); John Lohman (Pres.); Bill Francis (Librarian); Julian Prince (Treas.; Marty Schultz (Sec.); Carl Hamilton (Soc. V.P.).

## DABNEY

"Say, I think I'll watch television tonight. Let's see, it's Wednesday, that means the TV is in the game room—or is it the lounge? Oh well, I'll just follow the antenna wire and see where it leads me."

The school year 1960-61 was particularly signifcant in the annals of student house life, not because of the advent of the new student houses, but because it was the first year a student house threatened to become lost in a tangled mass of TV antenna wire. The huge snakelike monster wound its way in and out of every nook and cranny, doubling back on itself, and making the way impassible at spots.

In the sunny days of late September, as the Darbs found their way home to Dabney House, little did they realize what kind of year was in store. It was a year like any other year, but . . .

The social life of Dabney House started even before New Student Camp. A gala barbecue-swiming party gave old friends a chance to meet again and helped bring the Darb frosh into the swing of things. The upper classmen could show the frosh how friendly they were; this friendliness of the barbecue was soon to turn into the hostility of initiation, a custom finally ended by the freeing of the serfs.

The first term partying season got under way with the Tacky Party. There was a general attempt to find the wildest ties with the loudest patterns, the most dazzling shirts, the zaniest hats, and the brightest socks. The party was topped off by a Dixieland band.

In the midst of the social whirl, the Coe Interally Trophy started its season. Alley golf provided an opportunity for ingenuity on the part of house members. The golfballs ranged from water balloons to tiddley-winks. Upper Seven won the competition.

Interhouse sports saw Dabney tie for first in softball, take second in volleyball, but come in sixth in swimming. At the end of first term, the Darbs were a scant six points behind the interhouse leader.

Came the Saturday of the Interhouse Dance, came the rain. The theme being the Wizard of Oz, the cornfield was no fire hazard and the moat was well filled. Inside, the cup-eating cowardly lion chewed merrily away while the green punch seemed to flow from a sourceless spout. The wizard's screen was a mass of gadgets, and the lounge looked like the grand ballroom of the emerald palace.

First term drew to a close with the Christmas party, which saw Rabbi Nicholas dispensing gifts to "his boys" from his bottomless laundry bag. It was the first Santa ever with a Yiddish accent (authentic).

With the end of their term of office in sight, the social chairmen went all out in planning the second term social program. There was a Speakeasy party at a nearby hideout. Bathtub gin flowed freely in coffee cups.

The snow Party was a smash despite the fact that there was no snow.

The Barn Dance with Ruddock saw an exciting crew race in which Dabney won by a fair margin. The Dabney Flamers won handily. Step no. 1 on the way to winning the crew and flamer trophies.

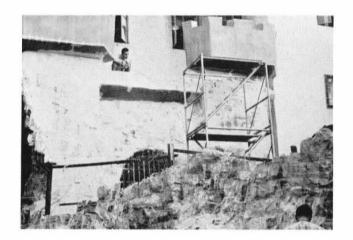
Demonstrating that New York City has no corner on Summer Festivals, a Spanish Party was next on the social program. An authentic Spanish Hacienda added to the atmosphere of the party, and Uncle Siddy made things more atmospheric with Flamenco interpretations.

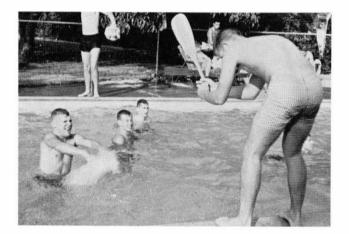
Interhouse sports continued their merry way. A tie for fifth in tennis and a tie for second in track kept the Darbs within six points of the lead.

As election time drew near, political fever started to mount. When the dust had settled, Dabney found itself with a new set of officers. John Arndt assumed the Presidential duties and Vic Engleman was selected as his right hand man. New social veeps were (W and M)endell and Dave Barker. Secretary and Treasurer were Don O'Hara and Rich Peterson respectively. Demonstrating their deep concern for athletic affairs and house spirit, Julian Prince and









Dave Osias were selected Athletic Managers. It was time for a change and Rich Maxson succeeded Viv Meksin as Historian. Bill Bush and Bill Tivol took on the duties of Librarian and Comptroller. The chore of handling the "friendly waiters" went to Joel Tenenbaum.

What can we do this weekend? Let's take a bike ride. In fact, let's have a bike race—to Balboa Beach. Ten brave souls set out Saturday morning after finals for the long 50 mile ride. All ten finished, and an unusual ruling threw the contest into a tie.



Seniors, 1st Row, left to right: Doug Shakel; Jerry Siegal; John Wilkinson. 2nd Row: Dave Kendel; Larry Shampine; Dave Turner; John Lohman; Bill Bauer; Sam Suett. 3rd Row: Marty Shultz; Delmar Curtis; Skip Stenbit; John Smith; Rich Drew; Steve Heckler; Larry Brown.



Juniors, **1st Row**, left to right: John Golden; Joel Tenenbaum; Warren Teitelman; John Arndt; Dave Osias. **2nd Row**: Julian Prince; Carl Hamilton; Bill Tivol; Vic Engleman; Jim Yoh; Etan-Markowitz. **3rd Row**: John Erskine; Frank Ridolphi; Bill Palke; Dave Sellin; Gary Mitchell; Steve Bruenn; Norm Gussin.



Sophomores, 1st Row, left to right: Ying Bun Woo; Rich Siquig; Wendell Mendell; Jim Sagawa. 2nd Row: Dave Barker; Steve Lowe; Norman Gorden; Ray Fernandiz-Martin; Bob Jernigan. 3rd Row: Art Robinson; Bill Francis; Rich Peterson; Steve Joseph; Harold Haskins; Chuck McBurney.



Freshmen, 1st Row, left to right: Jim Whitney; Howie Monell; Bill Bush; Dan Brogan; Art Turner; Bob Neilsen. 2nd Row: Dave Lambert; Herb Flindt; Bob Bruner; Larry Yeagley; Doug Hill; Bill Reining; Frank "Zigafoose" Winkler; Rod Zook. 3rd Row: Don O'Hara; Mike Howard; Rich Maxson; Dave Divoky; John Clauser; Chuck Knapp; John Burke; Dave Uhrich.



Third term opened with the Yale Russian Chorus paying a visit. The after concert dance in the House Lounge was livened by the Russian Folk singing of the Chorus.

The Officers' Initiation Party demonstrated some new Crew talent in the new exec committee. John Ardnt finished in twelve seconds! Julian Prince was stunning as the Easter Bunny, while Joel Tenenbaum demonstrated his imagination in charades. Bobbing for marbles in a bowl of milk was the sport of the evening, with Vic Engleman discovering the slosh technique, which eliminates the milk problem.

Roamin' Holiday was a bigger success than it had been in the past few years—yucca, yucca, and if Dexter didn't find the divide, Sam Suitt might still be looking for Mr. Boleyn.

In the Barn Dance with Ricketts, Dabney took the crew race handily. The flamers competition was closer, and a gargle almost pulled Ricketts through, but when the points were tallied, Dabney was victorious once more.

A bigger and better version of the faculty party took place at the home of the Dabney Non-Resident Associate, Dr. Frank Lindvall. Over twenty faculty members and their wives and about thirty-five Darbs and their dates were enough to make the party a full house. The Dabney House drama group staged a skit entitled "Oh That Powerful Feeling" or "Watt Makes George Run?" This bit of drama revealed the cause of the Campus power problem.

The Spring Formal followed. A band and a charcoal-broiled steak dinner provided a setting for many fond memories.

The year's social program drew to a close with the annual Luau. The feature was a roast pig, complete with trimmings. John Lohman, showing up in red slacks, was dunked, and a good time was had by all.

A third in football and a second in basketball put Dabney in a tie for the Interhouse trophy. Other trophies won by Dabney were the Acme Beer Trophy and the Flamers Trophy.

Numbers played a large part in conversation during third term. While some people said "12," others were not so sure and utter "37, 37', and 92." But lest we be carried away by numbers we can go to a more conventional system and say "So long and 73."







House Officers, left to right: Bob Lonb (V.P.); Howie Wang (Librarian); Hayden Macurda (Sec.); John Trollhole (Soc. Chairman); Ganett Ihler (Pres.); Arch Thiessen (Treas.); John Russ (Soc. Chairman); Bob Gershman (Ath. Mgr.); Bill Rowe (Ath. Mgr.).

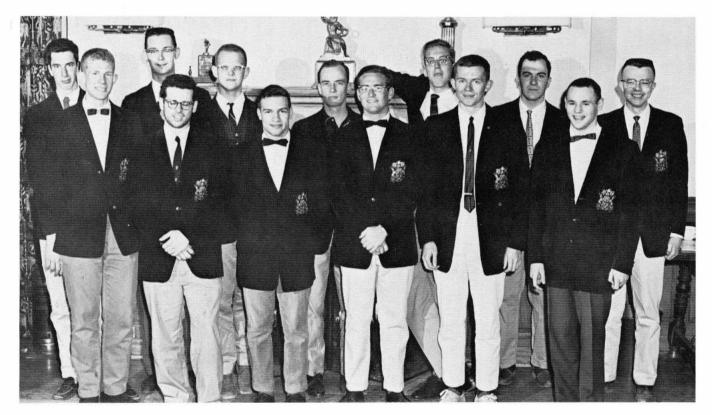
## FLEMING

The lack of rotation this year denied Fleming's incoming frosh their traditional ration of B:S. and confusion, but "Smiling Ted" Tarby, their pledgemaster, was careful to see that they were not denied any of their other traditional rations. The Frosh proved a little too fierce for "Tarbelly" however, and after depositing him a convenient distance from the campus, they proceeded to use up their excess energy in initiating the other six houses. One night the Frosh from Page appeared unnoticed in the Frosh room in Upper 5. After performing the sacred rite for which their mission had been instigated, they found to their dismay that they had been duped, for the whole episode was known by, even planned by, the Fleming Frosh. The attackers were allowed to leave only by the way of the Upper 5 showers.

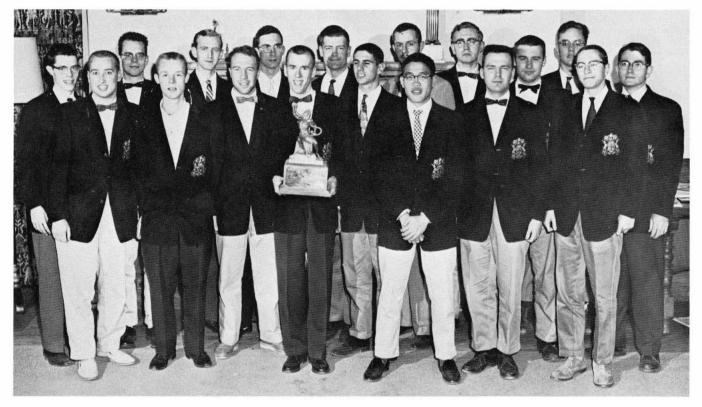
After observing such antics, the upperclassmen began to live in terror of the day initiation would be over, so made a peace offering in the way of a huge steak barbecue. While this helped, the Frosh gave constant reminders of who was boss. Egged on by the scrutable Oriental, H. Wang, they published an edict banning Senior Cords. The Frosh then attempted to lock the Seniors out of the house while they were away depositing Wang in the Hollywood Hills. Third term came, and with it the unkindest cut, the usurption of the Senior Table by the unfeeling Frosh.

First term brought the usual revival of the 69th Gospel Church. The Purity Test was administered by the Church with the result that the Frosh had received the lowest score, and Pope Fecephilus LXIX delivered a stirring oration on sin to the visiting Divinity Students. Besides the usual converts among the Frosh, the Church managed to obtain the services of two nuns. Sue E. and Linda B. entered this difficult order. Also active in the dining room was the infamous Women Are Evil Club, headed by C. Mead, noted researcher in the field, and the Waiters Union (motto—eat it faster) managed to drive the house to a 6.9 minute lunch.

Social achievements were, as always, quite varied this year. One enterprising Sophomore, discovering Wine, Women, and Song, managed to drop from a



Seniors, left to right: Bill Dowd; Herb Rice; Neil Richardson; Dave Friedman; John Trollhole; Ray Hribar; Arch Thiessen; Bob Heath; Pete Mayer; Bob Quigley; Hayden Macurda; Mickey Lindner; Jim Perry.



Juniors, left to right: Bill Rowe; Bob Gershman; Alan Danger; Chuck Radoy; Bob Moore; John Russ; Bill Weihofen; Chuck Flynn; Carl Baurn; Bob Ronda; Bob Lawler; Bob Linn; Lee Elliott; Roy Jordan; Cyrus Mead; Lauren Merritt; Ray Banglow; Bob Williams.

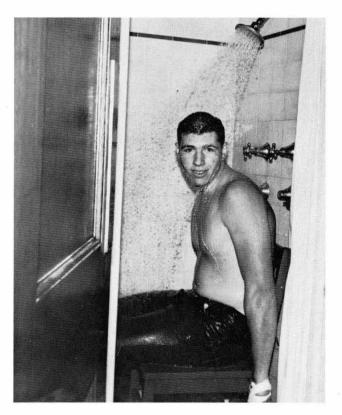


Sophomores, left to right: Ern Anderson; Howie Wang; Richard D'Ari; Bill Burke; Ed Bender; Don Blakenship; John Letcher; Brian Belanger; Sig Hoverson; Burt Semptner; Harold Stewart.



Freshmen, 1st Row, left to right: John Webber; Roger Minear; Steve Green; Terry Wogan; Frank Rhame; Harold Nathan; Paul Perdew; Doug Abe. 2nd Row: David Colton; Don Davies; Robert Wallace; Steve Hillyard; Hans Mattes; Bill Nicholson; Geo. Cady; Bill Smith; Marc Kaufman. 3rd Row: Don Harlow; Steve Goldner; John McCoy; Bill Schoene; Mason Williams; Larry Gowen; Roger Card; Martin Weiner; Al Cosand.









3.9 to a .39, with a comparable drop in Purity Score. On a slightly different social plane, one of the Frosh in Room 69, appeared depressingly monogamous in his choice of dates. Various members of the house set themselves up as self-appointed crusaders, endeavoring to convince this naive Frosh of the obvious benefits which could be derived by him if he would only expand the scope of his activities somewhat. However, the crusaders received quite a shock when said Frosh suddenly moved off campus, disclosing that he had been married to the girl all this time. Undaunted, these crusaders transferred their energies to another pitiful case, but again had to admit defeat. They had not been tricked this time, but rather had run into a hopeless case. H. MacPurity had managed to date the same girl over twenty times without getting more than a bare good night. Quoth MacPurity, "I didn't want to lead her astray." When last heard of, he was bombarding the Synchotron with freshly emptied bottles in extreme frustration.

Flemings obvious interest in social achievements found considerable expression in the social program this year, the highlight of which was, of course, the Interhouse Dance. Due to the almost god-like

foresight of our Social Chairman, when the rains came, the evening of the dance, Fleming's decorations were not destroyed, for they were mainly in sheltered areas. In line with an "Old West" motif, the lounge and dining room had been converted into a saloon and gambling casino, complete with player piano, gambling equipment and bar. Also present were "Madam" Ma Hale and her "girls", who spent the evening dealing "21" and/or providing entertainment for lonely males. With so much merriment, the only creature in Fleming miserable in the inclement weather was MacPurities Ass, who had been tied in the courtyard to provide atmosphere. Animal lovers soon moved the beast into the Lower 5 head. Early risers, desiring to use said head discovered to their disgust that during the night the Ass had not.

House elections brought the usual quota of officers. Chuck Radoy, who had resigned the Social Chairmanship far enough in advance for house members to forget his general incompetence, became President. Debonair Bob Moore became Vice-President, while "crafty" Bill Weihofen became Secretary. Those ferocious jocks, Bob Gershman and Bob Williams were elected Athletic Managers, and the terror of the Poker Tables Bob Lin became Treasurer. Sue E. and Linda G. were defeated in a close election for the office of Social Chairmen by the "House Mink," John Russ and his Frosh apprentice, Terry Wogan, while the tradition of having an Oriental as Librarian was finally broken by Frank Rhame.

With such an intrepid, diversified crew leading the house, next year promises to be as good or better than this year. How good was this year? Despite the fact that the jocks were gone and giants no longer walked the earth, the house spirit remained intact, a spirit that comes from the realization that Fleming is a damn interesting place to live, and while some claim the past was better, all agree that the present is far from unbearable. Along this line, the writers have attempted to reconstruct a few of the incidents which occured this year and which helped to make life in Fleming enjoyable. This seemed a more meaningful task than to attempt to prove that Fleming is the "neatest" of all possible

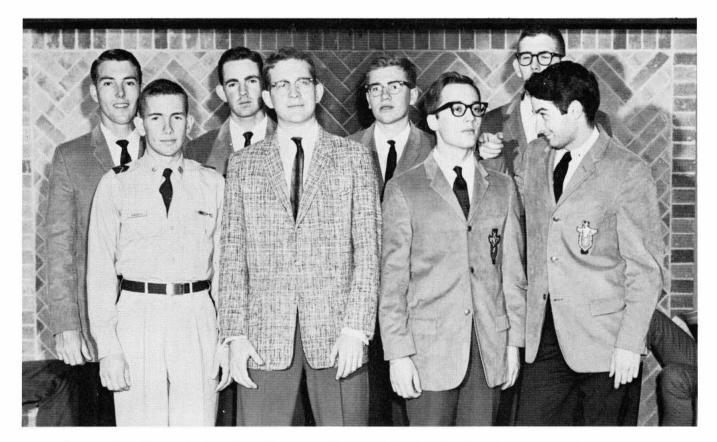
houses. We hope that the Seniors, in particular, have found the article interesting, and will, in future years, bring to their memories some of the good times from their years in Fleming. We also hope that they will come back to visit; future classes will undoubtably enjoy seeing what the "giants of the past" looked like.

> Chuck Radoy Cyrus Mead









House Officers, 1st Row, left to right: Richie Harris (Treas.); Dick Thompson (V.P.); Bob Poe (Soc. Chairman); Pete Lippman (Soc. Chairman). 2nd Row: Bill Hogan (Pres.); Gary Chamness (Sec.); Pete Ford (Ath. Mgr.); Dick Brandt (Ath. Mgr.).

# LLOYD

#### Dear Linda,

How is Berkeley now? It sure was great seeing you this Christmas . . .

The construction on campus is going at a furious rate. The noisy, early-morning tractors are laying dust all over everything. The new student houses are beginning to look like they're going to be great to live in. House "B" looks like it has a good group of guys throoping into it. I really don't know why I've decided to desert the old house; it may be for political reasons (I've always aspired to be a V.I.P.) or possibly because the hot and cold water comes out of the same tap in the new room sinks . . . .

#### Dear Linda,

Right now I'm up in the "Y" lounge waiting for the next batch of pages of the Lloyd House "Facts for Frosh" to proofread. (By the way, we've gained a new name, Lloyd's of Tech.) The place is full of newly arrived and freshly scrubbed freshmen looking wide-eyed at our valiant but inefficient efforts. I hope to finish here by five A.M.—the frosh will have

Pete

all faltered by then . . .

Tomorrow we're moving into Lloyd in full force. The Student House Office wouldn't let us move in this weekend because there weren't any fire extinguishers yet. The fire extinguishers still aren't here, but they have to let us in tomorrow. As soon as I find something that will burn, I'll write . . . .

### Pete

### Dear Marian,

Interhouse is going to be great! The theme is Alice in Wonderland, and we've been working all week on it—the plan looks good. You'll come in through the White Rabbit's Burrow under the wall of Troy—then walk on narrow paths through the Tulgy Wood, where the Caterpillar solemly smokes his hookah and the Cheshire Cat grins down from the trees. Around a corner the Jabberwock waits, burbling gently to himself. Then we'll sit for a while at the Mad Tea Party or dance on the Queen's Croquet Court. There will be a White Rabbit too that's Sparky Luskin. His date will be Alice, and Don Davis is the Mad Hatter. They're all out hunting for costumes now. Bjo is down in the lounge with Langly directing the work and painting fantastic things in quiet moments.

Last week Lippman and Poe put on a Useless Exchange. There were all types of people here. Every one of the them brought something useless, like a 1960 White Sox World Series ticket, the Throop Club checkbook, or Berman—in person. But the prize went to a chastity belt, obviously a useless item . . . .

Gary



Dear Marian,

What do you mean—of course it worked! How could you doubt? When Hardy and Clemens and Lloyd House plot a nation-wide R.F., why, it's just fated to happen. But I really wish you could have stayed for the New Year's Eve party and seen those 2300 cards spread all over the dining room, with serious-minded young scientists bending over the tables puzzling out which cards get stamped blue in space 14.

We watched the game in Ruddock Lounge. Everybody knew about the plot, and the suspense was terrific. We thought they'd never get through the nine tricks we gave them back. But finally the tenth came up—CALTECH! The room, and shortly the whole campus, exploded with joy, and each person who came back later that night had to hear about Lloyd's first Rose Bowl victory all over again . . . . Gary

P.S.—This term I'm going to snake. Dear Marian,

.... and then we'll sing the Lloyd House Song. Fervently. With Spirit. With straight faces, I hope, because Slonski's words and Poe's music add up to a real farce on an Alma Mater (as McCombs will



point out in the introduction.) But if Thompson laughs when he turns to lead the thing, Interhouse Sing is finished.

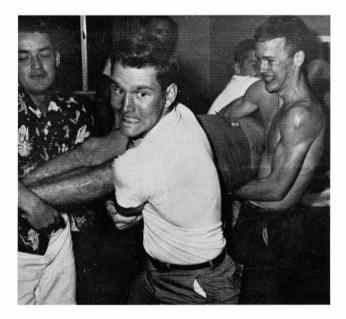
We smashed the world in tennis this term. Leezer, Bradford, and Medof starred in singles, and Riddick and Liebovich wiped out everybody in doubles, so we'll have extra sundaes for a few weeks . . . .

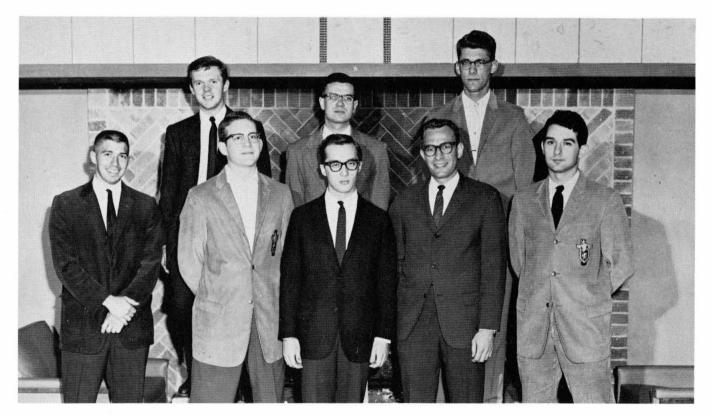
Dear Linda,

Hi-sorry to be so long in writing, but . . .

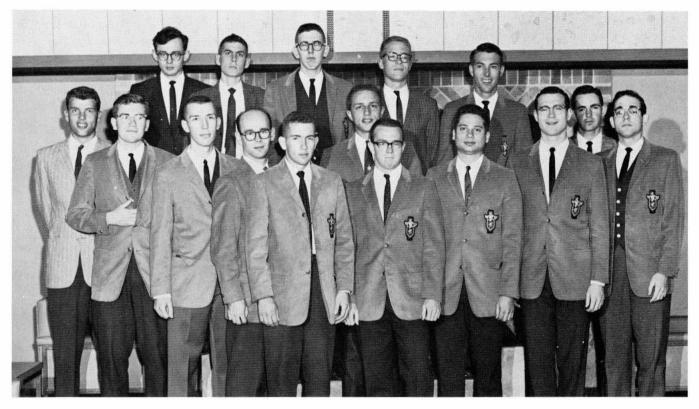
Gary

House elections are tonight. You never saw such a group of politicians. We've even had a reasonable attendance at football practices and games since the election fever started. Nobody dares stop long enough to snake from the fear that someone else may gain a vote by out-talking or maybe outdrinking him. There are four candidates for president this year. Supposedly, this affords a good choice, but

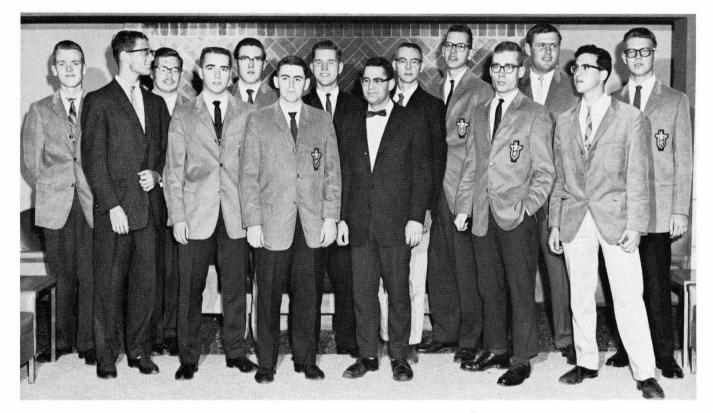




Seniors, 1st Row, left to right: Tom Tish; Dick Thompson; Bob Poe; Sid Liebovich; Pete Lippman. 2nd Row: Dave Bowman; Pete Castan; Ernie Jansen.



Juniors, 1st Row, left to right: Dick Hess; Pete Ford; Reg Clemens; Jim Moorhead; Rich Harris; John Newmeyer; Bill Howard; Al Berman; Dick Zacher; Gary Chamness; Larry Kugler. 2nd Row: Joe Heller; Bob Ruddick; Dick Brandt; Mike Lampton; Bill Hogan.



Sophomores, left to right: Ivar Tombach; Randy Ware; George Scott; Bill Schrader; Terry Ernst; Gerry Chandler; Rich Blich; Lee Molho; Dave Windsor; Wayne Huber; Don Davis; Frank Vlach; Steve Yellin; Clarence Fuzak.



Freshmen, 1st Row, left to right: Floyd Herbert; Roger Leezer; Al Luskin; Bob Howenstine; Dale Knutsen; Bob Storwick; Volker Vogt; Bob Estlin; Phil Sokolove. 2nd Row: Larry Seide; Jim Whittington; Ed Medof; Ed Angel; Mike McGammon; Jacques Calma; Rich Hake; Mark Gurnee; Bob Ching; Ron Findley; Eliot Bradford. 3rd Row: Al Gillespie; George Mager; Tom Reuble; Al Young.

it is quite amusing to see that each candidate has a line down pat—unfortunately the **same** line. Hogan claims that he doesn't give a damn who wins, just so long as someone does and takes over from him, quickly. It doesn't matter because no one has talked to Bill since it was learned that the constitution denies him a vote anyway. Oh well, the one good thing about election night is the keg.

Last weekend we had the first annual Beer Barrel Classic, ambitiously sponsored by candidates Ford and Brant. The fleet-footed Oleanna snakes won the relay race, and the juniors won the basketball round robin much to the dismay of a rather cocky group of freshmen. The interwing soccer game ended in a tie because neither side could kick the ball far enough to score a goal. The evening ended with the usual refreshments—the last I remember, Sasser was on his way out to get another case . . .

Pete

#### Dear Marian,

Election night. Ford of the New Frontier won the presidency and Newmeyer, boy innovator, the vice-presidency. Dick Brandt, Young Democrat, is secretary, Blish is treasurer, and Calma comptroller. Berman (7), Lampton (8), and Sokolove (4) will provide dates, and Ruddick (jr), Huber (soph), and Gillespie (frosh) will provide victories—we hope. The social chairmen announced their first big event —an exchange at Berkeley. Not enough local talent

Gary

#### Dear Marian,

No time for a letter, not after last weekend, but I though you'd like Abell's story about it from the Tech—

Beak has trouble gathering information from Floyd Berkeley Exchange. All he gets from returned fun-lovers are sighs and knowing smiles. First returns indicate fair success, as indicated by the flurry of Cal applications seen around the house. Bugler, unfortunate middleman, returned carrying a sour face and disposition to match. Seems he only had one and a half measly hours out of the whole weekend to spend with his girl . . .

Gary

### Dear Linda,

Thank God the year is coming to an end. The days are warm and sultry, and I find that looking out the window is infinitely more desirable than snaking. Everyone is too lethargic to do anything much at all except the frosh, who continue to play football and alleyball in the hall. This is much to the dismay of noble RA Noel Jones, who finds that his door is being used for the south goal, and Heller and Poe, who claim that it disturbs their 12:30 night activities. I never knew a group of guys who could get more of a kick out of playing football on a field 100 feet long and five feet wide. They're just crazy, that's all.



Senior Ditch Day has come and gone with its assorted fun and games. Lippman is still looking for his furniture. Last I heard it was at the bottom of the pit in Robinson. Mr. Wm. House (Hogan) formally announced his engagement, an event which resulted in damp congratulations. Later his fiance had little trouble talking the house into repeating the demonstration. At this point Bill lost patience and threw her in too . . . .

Its been a good year and the men of Lloyd have surely got a great deal out of it. Many of the guys will be around Pasadena for the summer, so I expect that we will continue to drink together and fight each other. Jim Clovis will be our RA next year. This year has been great, but Lloyd is hot to have an even greater one next year.

Pete





Front Row: Dave Siegel, Librarian; Pete Metcalf, Social Chairman; Frank Mullin, Secretary; Bob Koh, President. Back Row: Stu Linn, Vice-President; Roger Noll, Athletic Manager; Geary Younce, Social Chairman; Bob Hearn, Athletic Manager; Mat Couch, Treasurer.

# PAGE

Before Page it was A, and before that (not so long ago) it just wasn't. But things happen fast in the big city. From nothingness arose the amorphous mass called Scarlet A. Hope was high, determination rife, and Koh elected. Flying a pure white flag and carrying a snake, Koh led on, until was formed the influential Page House, campus leader.

There were initial setbacks. Promising member House abandoned ship while still in port in order to pursue more stimulating activity, and Schultz took off for Texas Western after just one party at his house. But the hardy stayed on, so numerous as to become the only full house in the world (depending on your definition of world.)

At the start of first term there was a revolution in house living, complete with Fidels. The freshmen learned first hand the thrill of hand-to-hand combat and the vengeance of Cline's wickedness. After the freshmen suffered several consecutive losses in water fights, the upper classmen gave up in disgust and let the clumsy oafs in.

Interhouse athletics began with a resounding bang, with Dabney's once proud footballers falling to the youthful, up-coming Page in the year's first Discobolus match. But then something happened. Athletic managers Hearn and Noll became surly until, like manna from Heaven, things picked up when swimming came (we had Rux — nobody else had porpoises). Limpo became the first frosh jock by being the best in tennis, and Hansen became the second in track. By football season interest was high, and Daddy Denyes guided the charges to victory after victory — and even Little Willy Emerson got to play.

Social life was rather popular with the Page House set. The gods ruined Troy a fifteenth time, but the horse stood firm. Weingarten's 35 hours of labor on a temple were washed away in 35 minutes, in spite of the countless times Rick shot the staple gun at the clouds. The Halloween party was better — the old greasy saw a final fling with Page and Ricketts doing their part to help the wrecking crew.

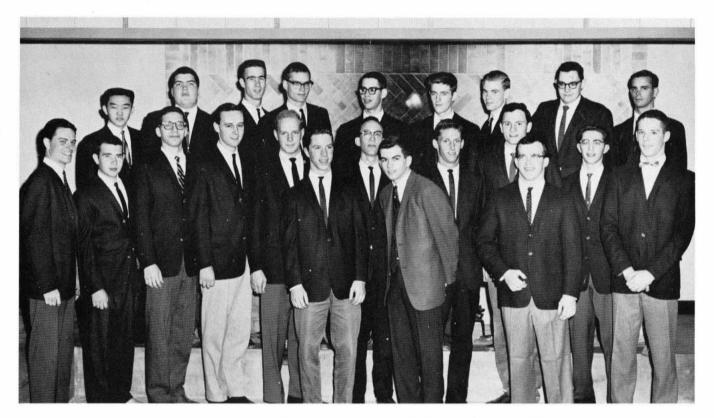
By second term it was decided that Page should have a traditional event, and the first idea was a Shipwreck. At first, the plan was to decorate Floyd as the Queen Mary, then dynamite her — but this was dismissed because then nobody would have anyone to make fun of. As a substitute, sailors Raynor and Allen, their car obscured by a Sailing Club Yacht, navigated the Harbor Freeway and carefully wrecked the ship in the lounge. Metcalf and Younce directed willing laborers in building a little grass shack and jungle forest. The result was fine, and a tradition was born.



Bob Ruby, Kay Sugahara, Ed Evans, Bob Nason.



Gary Lorden, John Armstrong, Pete Metcalf, Geary Younce, Bob Koh, Art McGarr, Ahmad Abu Shumays, Lance Taylor, Nelson Siegel, Frank Mullin, Roger Noll, Fred Hameetman.



Jerry Clough, Stu Linn, Richard Weingarten, Bob Ross, Bob Heara, Mat Couch, Frank Curtus, Steve Prata, Mike Perleman, Allen King, Dave Barton, Dave Ollis, Larry Robinowitz, House Mascot, Dave Stoutemeyer, Bruce Chesebro, Jack Arnold, Dave Siegal, Pat Mannies, Jackson Ito, Sam Allen, Don Aney, John Rayner, Jan Dash, Jerry Davis, Jim Williams, Frank Matthews, Ted Gibbs.



Barry Peterson, Gene Fellner, Mike Lambert, Craig Bolon, Bill Stwalley, Dick Burgess, Al Moline, Jim Baumgartner, Jack Beauchamp, Dave Holtz, Spicer Conant, Al Limpo, Don Dick, Jim Follansbee, Bob Meyer, George Cannon, Dave Seib, Gerry Thomas, Dan Entingh, Art Lipson, Ken Leonard, Dave Hewit, Leon Thomcen, Dennis Ross, Steve Wiesner, Bruce Julian, Howard Ono.



Section C1 Alumni — a group of juniors who felt cheated — immediately challenged the Wombats to "Neatguyness — or Volume". The object: to bring as many girls to dinner as possible in a week. For two nights the contest remained sane, with the Wombats taking a 15-11 lead. But the C1 Alumni had been saving up. The Wombats retaliated and with one night to go, the score was 57-54 Wombats. Suddenly a white flag appeared from the kitchen — Saga had given up. "Please, no more than forty a night," cried lovable ol' Dempsey. Investigation found that both groups had each arranged for more than that on the final night it would have been exciting. So the contest was called off, and a roulette wheel decided the possessors of the trophy.

Fads and fancies found their place in the Page House life. Clever practical jokes ran in waves.

#### Continued from Page 79

The best events of the year, though, were the group contests. First, the UCC's established a precedent by dreaming up an excellent contest — hood baiting without cop baiting. Each alley fielded an enthusiastic squad of pseudo-hoods, and drove off for El Monte, East LA, and other cultural centers. Surprisingly, no one got caught by hood or cop, in spite of attempts by both to mar the record.

Next came a real test of skill — boorishness while eating. McGarr won individual awards with a handful of mashed potatoes to the headwaiter's ear, and followed by a spoonful of gravy thrown indiscriminantly.

At the beginning of second term, a trophy was purchased. It was offered to the winner of a contest of skill —total score in various games at a Penny Arcade. The Wombats became the first trophy winner as everybody's favorite Fellner proved that anyone can overcome Parkinson's disease.



Two vicious house members persuaded a friend of theirs at Whittier to send Siegel an intimate, sugar-coated loved letter (or proposition, if you prefer) and then signed the name of some Caltech bird from off campus. Likewise, the bird got a similar note signed, "Love, Dave." Several freshmen picked up some useful words while listening to the two slander each other the next day — until they discovered what had happened.

The fearsome sophomore jock-group, Curtis, Cheseboro, Dash, Manning, Ollis and Stoutemeyer, cornered the RF market, carrying on a year-long grudge against each other. Shaving cream sales in Pasadena hit an all-time high when Curtis discovered its many nasty uses. And student house board costs will undoubtedly go up soon to cover the high consumption of "Scott's softest" in Page House.



#### Continued from Page 82

Another fad which spread throughout the house was the reading of dimestore novels, affectionately labeled "raunch". Emerson, who has every Walt Disney comic since 1939, is also the world's foremost authority on lusty literature. Every night Emerson, above Linn's fervent objections, would host a score of avid raunch readers, if he wasn't too busy trying to reach Seattle with his hi-fi.

The seniors all suffered from some sort of addiction. For two, Larsen and Sajdera, the addiction was "living" and we miss them both. Two more, Ruby and Sugahara, are hooked on cards. Sugahara, who finally found a senior class he liked well enough to join, would play anything — and no matter what the game, he'd soon find a situation that called for





the famous "hoooooooo hoo hoo hoooooo". Ruby was more picky — he wouldn't play fish. And instead of hooing, he'd usually just blow smoke in your face and giggle. Nason's addiction was geology. When he wasn't out hiking or at geology club, he'd talk about rocks (or sometimes hurricanes). Evans certainly liked beer. In the spring, he took off a few days in order to win some football games for the house, but he got back to serious drinking whenever he could.

So that was Page for '60-'61. Sure, we're young yet, got a lot to learn. But already we're good enough that everyone wants to beat us! Already we've got our traditions laughing at Floyd, being active in campus affairs, having more athletes than

anyone, complaining about Saga (everyone wants his turn on the food committee except McGarr who'll eat anything), and most important, getting along with each other. Pretty good work there, Page boys, pretty good work.

Stately, plump Rod Dokken came from the Prexy stairhead bearing a mug of foul-smelling amber liquid. He was approached by a pea-green freshman (unrotated), whose name may or may not be Ray Weiss, and asked whether or not he was a freshman. So the year at Ricketts began unpropitiously as The President Himself was smashed.

Initiation, as usual, proved to be at least fairly amusing and quite educational for all concerned. For instance, George Reeke (from Green Bay, Wis.)





Front Row: Dick Jones, Secretary; Marty Hoffman, Social Chairman; Jay Russo, Librarian. Back Row: Barry Moritz, Social Chairman, Rusty Marr, Athletic Manager; Rod Dokken, President; Gary Turner, Treasurer.

### RICKETTS

Continued from Page 83

learned that the fraction 23/33 can be computed far more accurately than the value he reported in his thrilling duel with Hal Petrie. Also, the freshman from Turkey underwent a name change from Dimugluugluig or something like that to DD, or "The Turk" to those who knew him well. Blacker House learned not to mess with Deklyen and/or Radke. The UCC's busily worked at integrating the frosh (unrotated) with all deliberate speed.

Ricketts almost decided not to participate in the annual Interhouse Dance in 1960, but the event was saved by the fact that the freshmen were so very gung-ho. So it was decided that the house should participate in the event as in years past. The project selected was the building of a huge Trojan. After much difficulty, the horse was erected. Unfortunately, however, on the day of the dance, it rained (for the first time in twenty years) and the fun was taken out of the whole thing.

The fiercely-contested skill-games trophy was wrested from hard-fighting LD by scrappy Snatch in the sports of head-knocking, Turkish Yoga (whatever that is) and crutching to Robinson for speed. The most popular form of diversion first term was the game of rack, and the accompanying remarks (like: "I doubt your corpulent posterior, Thomas." One personable freshman was even seen to be teaching the game to an oriental fellow (named Sugarhair or something like that). The fellow seems to have had considerable luck at the game since. Smart, those Japanese.

As the first term finals approached, the Ricketts house members came up with one of their traditional waste-of-time-before-finals, in the form of "Transom Ball," also known as "Slobko's Folly." The "ball" was not a "ball" at "all" but rather a paper cube, as it turns out. However, everyone seemed to study enough, except Slobko and Hill, who had money involved. The house did reasonably well, however, and there was even some talk (very quiet talk, however,) that Ricketts might even win the Snake Trophy (gasp).

The end of finals was celebrated with the usual festivities this year; the house members decided to name the holiday "Christmas". The idea seems to be spreading, from all reports.

The fiercely-contested breakdrum was wrested from the hard-fighting sophomores by the scrappy frosh during second term. The pile was more gruesome than usual, and it caused several sophomores to swear off violence forever. Instead, the class of 1962 decided to attempt to regain the chrome disc through trickery and deceit. They even went so far as to kidnap tight-lipped George Reeke (from Green Bay, Wis.) in an ill-fated attempt to discover the whereabouts of the drum. But courageous George



### Continued from Page 84

withstood the hours of mental torture and the sophomores were thwarted.

In the absence of Stan Sajdera, Barry Moritz took over the reins of the house vocal chords. But the fiercely-contested Interhouse Sing Trophy was wrested from hard-singing Ricketts by crappy Blacker, whose members are reputed to resemble moles. Clearly the finest choral group present, the Ricketts team was judged first by two of the judges, but dead last by some random old woman. Wait until next year.

The fiercely-contested presidency was wrested from hard fighting Rod Dokken by scrappy Kerry Donovan during second term. All other house offices were uncontested, and quire dull. Except House Jock. The team of Thomas the Unpure and Rosenberg the Jew eked out a close victory. Undoubtedly, however, the most interesting feature of election night was the showing of the Raunch Flicks. These movies, it should be pointed out, are vastly overrated, and are no more than come-ons for the average horny Tech man. Not once during the performance can this reporter remember seeing even a glimpse of bare ankle.

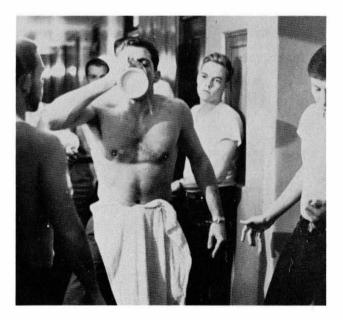
Second term also marked the beginning of the Houyhnhnms (yes), a society of good fellows dedicated to getting rich quickly. It seems they had a system of betting on the horses, and when that didn't turn out so well, they began to invest in the commodities market. To make a long story short, read the last paragraph of this story.

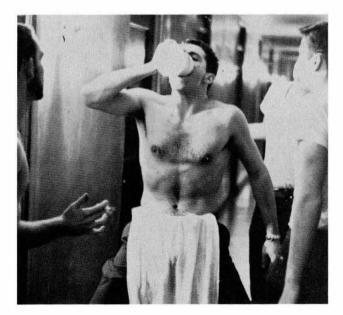
Second term finals were marked by the invention of polygonal handbird, one of the best time-wasters in recent years. Tom Slobko was one of the most proficient polygonal handbird players. We'll always remember Tom.

Spring vacation, called "Easter" by some techmen, was one of the most interesting in years. It seems the house Armenian disappeared, and everyone was quite occupied with the game of "guess where the Armenian is". The game was ruined when Serge returned. Spoil sport.

Once more the skill games trophy became active during third term. Boy did it ever become active. Up Your challenged Snatch in door stealing, and somehow Crud won. Then LD challenged Crud in an alley band contest; meanwhile Snatch challenged Prexy to clean living and Spring challenged the LD frosh to shower him. The final result of all this confusion is not obvious, but at last report, LD was at the top of the trophy board.

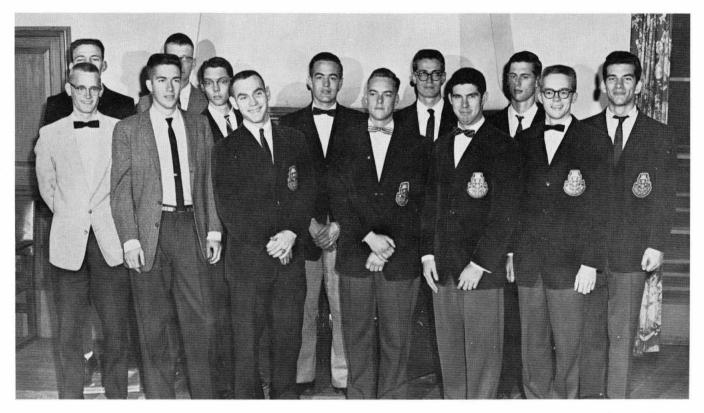
Earlier in the term, Phil "toilet" Bowles set an all time record by downing twenty-five mugs of water in one evening in one of the greatest displays of gunghoity in history. Unfortunately, the fiercely-







1st Row: Carl Pool, Russ Marr, Paul Purdom, Ben Burke, Dick Jones, Keith Matthews. 2nd Row: Ken Casey, Bruce Ulrich, Rodney Dokken, Doug Stewart, Lewis Hemphill.



1st Row: Ken Larson, Dave Edwards, Kerry Donovan, Robert Bump, John Crossman, Carl Rovainen. 2nd Row: Tom Slobko, Butch Lungershausen, Gary Turner, Keith DeMent, Doug Smith, John Curtis, Neil Gretsky.



1st Row: Carlos Johnson, Hal Thomas, Truman Seely, Jim Morrow, Joel Young, Warren White. 2nd Row: Al Yur, Marty Hoffman, Joseph Russo, John Kessler, Will Saum, Barry Moritz, Pete Fischer, Les Tomley, Tom Bopp.

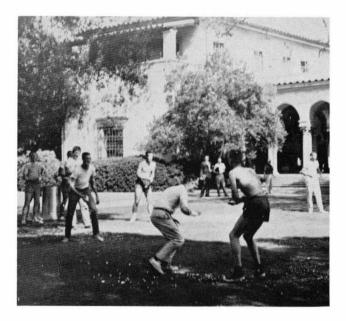


1st Row: Ron Sipherd, Bill Rosenberg, Duygu (DD) Demirlioglu, Joseph Taynai, Elliot Harry; George Reeke, Fred Don. 2nd Row: Wayne Covington, Rod McCalley, Roy Weiss, Dennis Holt, Dave Hyde, Bob McEliece, Terry Murphy, Alphonso Bedouya, Steve Hansen, Tom DeKlyen, Phil Bowles, Lee Peterson, Roy Riblet, Hal Petrie.

#### Continued from Page 85

contested Acme Beer Trophy was retained by harddrinking Dabney in the face of a stiff challenge by the scrappy Ricketts crew team.

During third term the senior EE's decided that it was time to put their four years of nebulous theory into practice in the form of a great big tesla coil. The hard working fellows endured derisive cries of "good luck, guys," and "Nernst" and finished their coil. It didn't work, to the surprise of no one. But





in all fairness to Dokken, Casey, and Co., it should be pointed out that the coil sure did impress that high school stuff at the Mad Scientist Party. Good work, fellows.

After all that, life settled down to a peaceful routine, interrupted only occasionally by Paul Purdom and by the rumor that turned out to be true that Barry Moritz had a dread disease. Way to have a dread disease, Moritz.

At the time of this writing, third term finals are approaching, the house has iced the Discobulus trophy (we may make Dabney eat it), rooms for next year are being randomly selected, (Gretsky is all alone with his beloved), and a fifty-dollar share in the Houyhnhms is now worth exactly eighteen cents (yes).





First row: Doug Fenwick, Secretary; Eli Chernow, Vice President; Joel Donnelly, President; Bill Farrell, Social Chairman; John Tudoroff, treasurer. Second row: Bill Ripka, Athletic Manager; Rick O'Connell, Historian; Russ Russell, Headwaiter; Tom Gorden, Comptroller; Ken Manley, Librarian; Ron Gatterdam, Athletic Manager.

### RUDDOCK

THE GOSPEL ACCORDING TO ELI

1. In the beginning there was nothing. The campus was null and void.

2. Then George Green said let there be no more parking spaces and he sent the angel of noise and dirt to construct a new and unequalled garden eastward of greasy chandler.

3. And he took a finger from marge cheney and created bud taylor and he was a jimhole. And behold he looked upon his work and it was good.

4. But He saw that His work was not yet complete and perfect.

5. Then he created Jose Frink. And He said this is cool.

6. And he saw that Jose was lonely. It is not good that man or Frink should be alone.

7. He caused a deep sleep to fall upon Frink. While he was sleeping all his signs were stolen.

8. From Frink he took a bone and with the bone He made Lola.

9. And He saw that she was good but not perfect so he made her again.

10. The admissions committee brought forth creeping things and they were called frosh.

11. And from the old houses came forth the beasts of the field and they were called sophomores.

12. And from Huttenback's office sprang forth the foul of the air and they were called juniors.

13. And there dwelt in the paradise Ruddock Jose and Lola and the beasts and the fowl (And the creeping things dwelt there too.)

14. And in the paradise there was a great abundance of chocolate sundaes.

15. And the fair maidens flocked to the citadel to pay homage.

16. And they were impressed.

17. And He spake unto the inhabitants saying ye may partake of any tree in the



Front Row, left to right: Bill Ripka, Eli Chernow, Doug Fenwick, John Todoroff, Wayne Massey. Back Row: Joel Donnelly, Lola, Tom Gordon, Ron Gattendam, Kirk Dawson.



Front Row, left to right: Bob Langsner, Bill Hassenzahl, Russ Russell, Bill Farrell, Rupert Bell. Back Row: Vince Haskell, Dave Herting, Bill Straka, Art Ludwig.



SOPHOMORES, 1st Row: Lloyd Rice, Henry Abarband, Bob Schmulian, Ken Manley. 2nd Row: Al Wright, Steve Leppla, Larry Gershwin, Bill Giauque, Ron Koretz. 3rd Row: Norm Reitz, Paul Rosenthal, Bob Gilman, Mike Behrens, Tom Atkinson.



FRESHMEN, **1st Row:** Joe Weis, Dave Hammer, Tom Dacon, George Preston, Terry Mast, Dan Paxton, Bob Leibermann. **2nd Row:** Ray Green, Bill Meisel, Tom Lubensky, Mike Cosgrove, Arden Walters, Richard Karp, Jeff Wise. **3rd Row:** Dick Stanton, George McBean, Bruce Beeghly, Bill Weber, Don Terwilliger, Keith Gillen, Jim Hole. **4th Row:** Dave Helfman, Tony Dahlen, Steve Gorman, Jim Dixon, Tom MacDowell, Russell Hageman, Dick Shlergeris, Jack McKinley, Larry McClellan, Harry Rosen, Dick McGehee (missing).

garden excepting not only the cherry tree from which ye shall not pluck least ye die.

18. And there was in Ruddock House a snake and he so disgusted Jose that Frink plucked from the tree in frustration.

19. And the holy angel Rinker saw what they had done and he was angered and he said unto Jose thou shalt leave the comfort of the Institute never to return and go forth unto the non-rigorous world.

20. And Jose rejoiced.

21. For he was to be graduated.

22. And Jose went forth east from Eden and did grow and multiply.

23. AND THE PARADISE LANGUISHED IN HIS ABSENCE.

24. Enchevetrer lierre est concocteur luron ceunt.





Initiation discovers Dick Shlegeris. As the usual Rites of Fall descended upon Ruddock, administered by Pledgemaster Larry Gershwin, Freshman Shlegeris takes a ride on the Chandler dirty-dish conveyor belt. The usual amount of gas was dished out to the Frosh, but when all was over, there were no hard feelings and a spirit of unity had come into the group of guys who were now living together as a house.

Following hot upon initiation was the interhouse dance, Ruddock's first. It was one to remember as Ruddock joined with Ricketts in constructing a huge Greek scene, complete with Trojan Horse, located just inside the gates of Troy. The rain sort of dampened things (no pun intended) but a great time was had by all. In the first elections of the new year, Lola, here shown with the usual group of zealous guardians pledged to protect her chastity, was unanimously chosen as the interally trophy and eternal companion to the immortal Jose.

Then, after a time made seemingly infinitesimal by the endless rounds of too, too cool parties and exchanges arranged by social chairmen Ollie Seely and Bill Farrell, came the first term finals, and the customary time-wasting athletics usual to this period.



This time it was mountain climbing sans mountain. Another one was climbing the stairs using only the tops of the half-inch wide baseboards, both of which were recorded for posterity by the gung-ho Ruddock historian.

The history of intra-ally sports didn't stop there however. With second term came ally baseball and handball, and the development reached its peak with the great Caltech frisbee boom of third term, when the in thing in Ruddock was the ability to throw the frisbee the length of the ally without touching the wall.

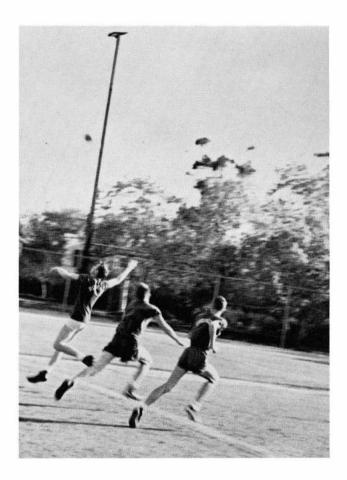
As third term approached, so did the House elections. When all was said and done, Bill Farrell was chosen to follow Joel Donnelly as president.





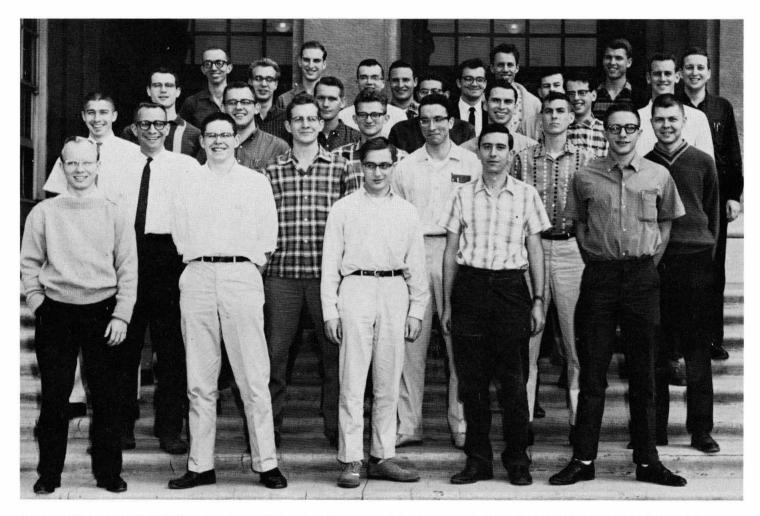
Vice president is Bill Hassenzahl, while Bob Gilman, Pete Laszlo, and Tom MacDowell were chosen to try to follow Ollie Seely's reign as Social Chairmen. Secretary is Henry Abarbanel, and inheriting the treasury is Larry Gershwin. Athletic Managers are Bob Liebermann and Chuck Vinsonhaler, while Ray Green, Dan Paxton, and Arden Walters take over as Librarian, Historian, and Comptroller. Succeeding Russ Russell in the unenviable position of Chief Clod (Headwaiter) was Ron Counsell.

Another feature of third term was the announcement that Ruddock was co-holder of the Interhouse Trophy. The football team, shown defending against a Lloyd pass, lost only one close game, while the softball, basketball, and volleyball teams had good records to give Ruddock the coveted prize. All in all, the men of Ruddock felt that they had a very good year, and an outstanding one for a new house. With the unity and spirit of Ruddock well established, a great year seems certain for '61-62. The men of Ruddock feel that judging from this year's record, this will be a great house for a long time to come.









1st Row, left to right: Christ Velline, Dave Turner, Robert Poe, Eli Chernow, John Newmeyer. 2nd Row: Sid Leibovich (Vice President), Richard Thompson, Tom Sallee, Bob Ruddick, John Todoroff. 3rd Row: Tom Tisch, Cleve Moler Bent Huld, Garry Lorden. Back Rows: Dick Zacher, Kip Thorne, Barry Gordon, Byron Summers, Larry Brown (President), Clark Benson, Ollie Schwab, Dick Norman (Treasurer), Dave Loebbaka (Secretary), Random Troll, Bill Bauer, Steve Hechler, Richard Hess. Joel Donnely, Marty Schultz.

## TAU BETA PI

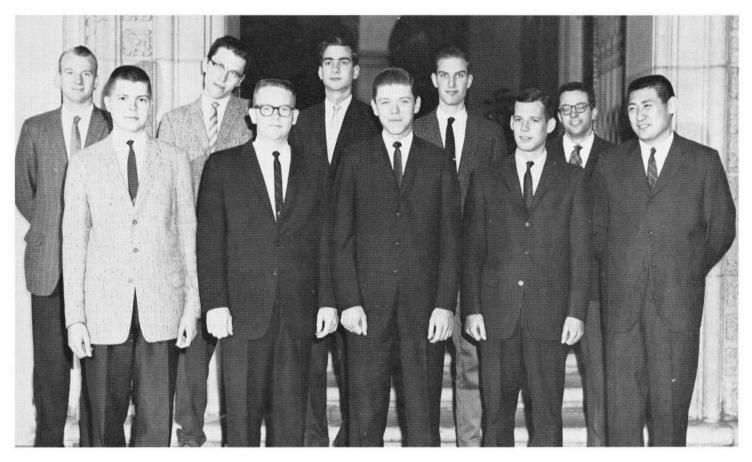
The Caltech chapter of Tau Beta Pi is the only scholastic honorary society on campus. Tau Beta Pi itself is a national fraternity whose purpose is to honor those who have attained high academic standing with a record of integrity and service. Members are elected twice each year from nearly all campus options. Seniors admitted to Tau Beta Pi must stand in the upper fifth of their division, juniors in the upper eighth.

Every year the Tau Beta Pi chapter president

travels to a national convention of chapter presidents in order to better co-ordinate this chapter's activities and policies with those of other chapters. This year the Cal Tech, U.C.L.A. and U.S.C. chapters had a combined initiation, banquet and dance.

Also every year a Freshman Award is given by Tau Beta Pi to the freshman who, more than any other, possesses those qualities necessary for Tau Beta Pi membership. This year's award was presented to Thomas Latham.

## HONOR KEYS AND CERTIFICATES



1st Row, left to right: John Todoroff, Gary Walla, John Lohman, Tim Little, Bob Koh. 2nd Row: John Golden, Roger Noll, Dave Pritchard, Larry Brown, Lance Taylor. Not Pictured: Bill Bauer, Rod Dakken, Joel Donnelly, Sid Leibovich, Dick Norman, Tom Tisch, Clyde Zaidins.

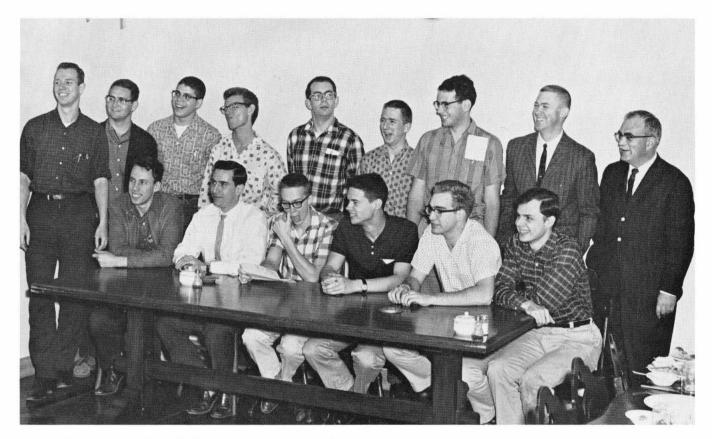
Honor Keys and Honor Certificates are awarded each year by the Board of Directors upon the recommendation of an Honor Award Committee. This Honor Award Committee evaluates student applicants upon the basis of outstanding service to the student body. Variety as well as degree of service is taken into consideration by the Committee. Honor Keys are the top service awards given by the ASCIT. Both the Honor Keys, which are the harder to achieve, and the Honor Certificates are announced during second term and then presented at the anual Spring Awards Banquet in Tournament Park.





**1st Row**, left to right: Rich Harris, Joel Tennenbaum, Julian Prince, Eli Chernow, Jim Sagawa. **2nd Row:** John Arndt, Dick Thompson, Art Robinson, Gary Mitchell, Bill Hogan, Art Turner. **Not Pictured:** Joe Bocklage, Gary Ihler, Tom Keil, George Muenich, Carl Ravainen, Doug Shakel, Skip Tenbit.

Oliver Seeley and Carl Hamilton



Sitting, left to right: Stan Klein, Eli Chernos, Carl Rovainen, Bob Nason, Barry Gordon, Paul Purdom. Standing: Don Fahnline, Bob Keith, Dick D'Ari, Barry McCoy, Harold Harrison, Howard Monell, Steve Hechler, Al Green, Wes Hersey.

### Y.M.C.A.

Through the years the YMCA has been outstanding for its many contributions to the welfare and culture of the Caltech student body. This year has cerrainly been no exception. Under the able leadership of President Bob Nason, Vice-President Barry Gordon, Treasurer Eli Chernow, Secretary Paul Purdom, National Representative Stan Klein, and Publicity Director Carl Rovainen, together with Executive Secretary Wes Hershey and his assistant Al Green, the Caltech Y has enjoyed one of the most successful years in its history.

This year's program was highlighted by Leaders of America Archibald MacLeish, who discussed his poetry and plays, and Margaret Mead, who spoke on the social problems of Techmen. Other popular visitors were the Yale Russian Chorus, who presented a concert, and a group of eight seminary students, who spent a few days in the student houses discusing religion and other subjects with students. Other YMCA activities included participation in the annual Asilomar conference, which was attended by the largest Caltech delegation in many years, and sponsorship of a conference with U.S.C. The Public Affairs Commission, and several speakers, including Dr. Linus Pauling, representing various viewpoints on congressional investigating committees. Regular programs that have enjoyed popularity are the Diner Club, folk-dancing, and the Y film series. YMCA members have also continued a recent tradition by spending weekends working at the Pala and Niji Indian Reservations.

Elected officers for the coming year are Barry Gordon, President, Carl Rovainen, Vice-President, Bob Ross, Secretary, Dick D'Ari, Treasurer, Norman Reitz, Publicity Director, and Gerry Chandler, Regional Representative. Under their leadership, the YMCA members anticipate that the coming year will be even more interesting than the past one.



Dr. Margaret Mead was one of the leaders of America visiting Caltech.



The Yale Russian Chorus presents a Concert.



Visiting Seminary students participate in a discussion group.



The Yale Chorus participates in a post-concert gathering.



Margaret Mead discusses problems facing Caltech students.



Techmen participate in the Annual ASILOMAR conference.

# LEADERS OF AMERICA PROGRAM

The YMCA devotes a good part of its budget each year to the Leaders of America series, which sponsors visits to Tech by persons of fame and authority in various aspects of American culture. This year Archibald McLeish, noted author and playwright, and foremost anthropologist Margaret Mead visited the campus as guests of the program.

The series provided for meetings between these famous Americans and the students, both in group and individual conferences. During these, the Techmen were able to obtain valuable information about a wide range of topics from these experts and leaders in their fields.





4th Row, left to right: R. Moore, D. Kauffman, L. Fretwell, B. Francis, J. Lonman, R. O'Connell, D. Dick, T. Ruebel, L. Merritt, L. Kugler, K. Frewing, J. Donnelly, O. Frodsham. 3rd Row: R. Counsell, G. Muenich, J. Armstrong, D. Grimes, G. Mitchell, D. Barker, D. Dickson, A. Johnson, D. Curtis, R. Thompson, F. Spaid. 2nd Row: R. Kruse, J. Hole, D. Helfman, T. Creighton, D. Terwilliger, D. Barton, D. Fenwick, G. Thomas, G. Lorden, A. Hindmarsh, O. Seely, M. Perlman, S. Mastin, K. Casey. 1st Row: T. Davey, R. Dawson, K. Russell, D. Abe, W. Howard, W. Specht, J. Davis, P. Johanson, J. Yoh, V. Hascall, G. Preston, C. Velline, C. Hamilton

The Caltech Glee Club continued its tradition of performing some of the finest choral music at numerous concerts throughout the year. The fifty-six



ghout the year. The fifty-six membered club is one of the most active organizations on campus. Under the superb direction of Olaf M. Frod sham, Professor of Music at Occidental College, the club has matured into a finely blended chorus with amazing tone production.

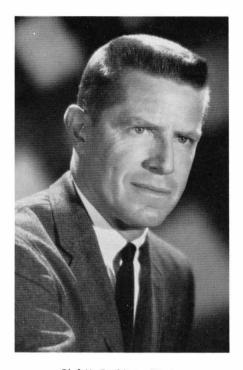
Activities were many and varied this year. On campus the club presented its Annual Spring Concert, sponsored the Interhouse Sing and performed for the service league and the Institute of Dairgaba. Concerts presented in the locality of Pasadena included the traditional service at the Westminster Presbyterian Church, the Pasadena Women's Symphonic Association, the Onieta Congregational Church and an appearance at the opening session of the Western Division of the Music Educators National Conference.

Spring vacation once again was devoted to a tour of central California with concerts scattered between San Bernardino and Berkeley. An enjoyable evening exchange with the Pomona Woman's Glee Club and the gala Annual Festival at L. A. State College completed this year's concert season.

Officers of the club for 1960-61 were: George Muenich, President; Kendall Casey, Manager; Stephen Mastin, Secretary; William Howard, Treasurer; Lauren Merritt, Librarian and Lyman Fretwell, Student Conductor and Quartet Director.



THE CALTECH QUARTET, left to right: Robert Moore, James Davis, George Muenich, and Walter Specht.



Olaf M. Frodsham, Director





Ruddock House Quartet Sing

## INTERHOUSE SING

Blacker House Sing

Like many things on the Caltech campus this year, Interhouse Sing underwent several changes. The most noteworthy of these changes was that the trophy got a new home. Blacker House broke the monopoly on Interhouse Sing long enjoyed by its neighbor to the north. Lloyd house was second, and Page House was third in the competition.

With many houses competing it was decided not

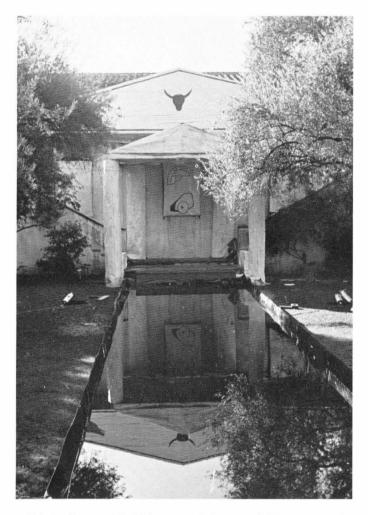
to have a single contest number. Thus each house chose its own songs, and there was a great deal more variety in the evenings' singing than there had been in the past.

Everyone was surprised with another break in tradition when Dean Eaton announced the winner as soon as the results were tabulated.

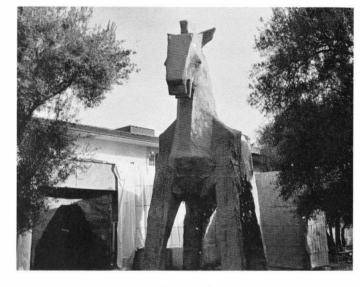




Page House Sing

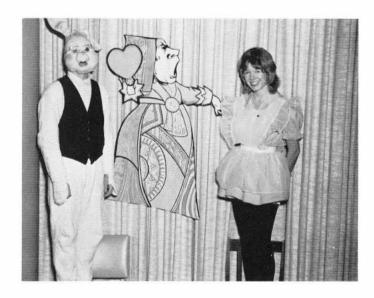


Ricketts, Page and Ruddock presented the rape of Troy as a grand, amalgamated effort. Neo-Trojans danced in the temple courtyard but forgot to pour libations to the resident god (it seems he was the god of rain).



Gutless wonder

# INTERHOUSE



Alice, Queen of Hearts and unidentified rabbit.



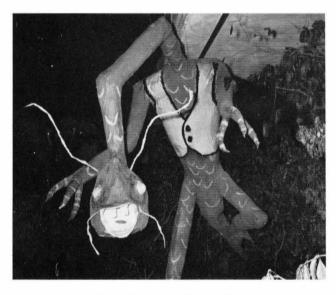
Pogo's house was way out.





Welcome Committee

## DANCE



Jabberwocky reacts to Saga cookie

Grand Lake, Colorado. (foreground: representations from U.C.L.A.)



Dabney was transformed into the Land of Oz. The Emerald Palace looked more like a granite castle, but the moat really worked! The Wizard appeared on his screen inside, attended by the Cowardlycup-eating lion.

Fleming went western, complete with saloon, casino and dancing girls. Ned Hale ran the full house with an iron hand. Below: outside facade; Linus' Place.



# THE CALIFORNIA TECH





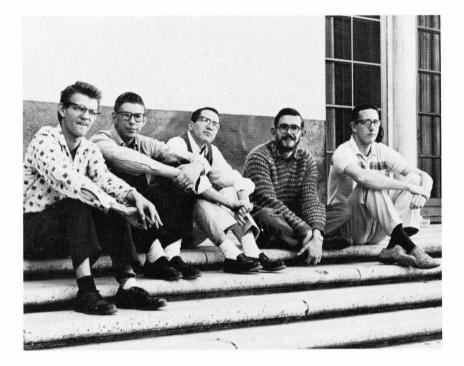
Tom Tisch, Editor

Another year has passed and the California Tech staff, led this year by editors John Todoroff and Tom Tisch, has faithfully recorded another year of Caltech history. It was a news filled year, and the Tech provided comprehensive coverage of events suited to a wide variety of tastes. In the ever popular area of student affairs, the bit stories this year were the rotation talks and the B.O.D. - Dave Kubrin feud. The most important news item of the year concerning faculty affairs was that Dr. Beadle was leaving the Institute to accept the position of Chancellor of the University of Chicago. The news department also reported on such things as the athletic picture, the many cultural programs going on around campus and achieved its crowning success when it scooped all of the nation's newspapers in reporting the inside story of the Rose Bowl card stunt "R.F."

Supplementing the news department was a strong editorial department, led by the Tech's co-editors Tisch and Todoroff, which produced a regular editorial column. The best way to characterize this year's editorials is to say that they were controversial. Usually dealing with some aspect of student life or student body attitude, the editorials criticized, complained and made people think. Although those who read the editorials may not always have agreed with the comments which were made they could not read them and remain ignorant of the problems facing the average Caltech student.



Left to right: Lance Taylor, Roger Knoll, Howard Monell, Don Thompson, Larry Gershwin, Bill Meisel, Craig Bolon, Richard Karp, Barry Peterson.



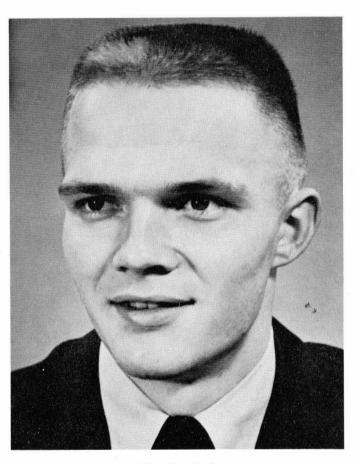
Totem Staff

### THE TOTEM

The campus literary magazine **Totem** produced under the guidance of Editor Dave Benson assisted by staff members Barry McCoy, Bob Diller, Steve Joseph and Ray Barglow has again shown that Techmen's interests extend beyond the realm of science or engineering. The magazine contains a wide variety of original essays and poems written by members of the student body. Much of the charm of this magazine is derived from the fact that the contributing authors deal with familiar themes in a new and different way which is uncommon in normal literary publications. The only problem facing the **Totem** at present is of finding more contributors, a problem which we hope will be solved so that the **Totem** will continued to be published.

# THE LITTLE T

The **little t** is the Institute's version of a student handbook. Provided by ASCIT, and ordinarily edited by a team of two Sophomores, and **little t** was this year produced single-handedly by Senior Stan Sajdera. The information included in it ranges from a spurring message from President DuBridge and girls' telephone numbers to useful, but less interesting, ASCIT by-laws and students' addresses. It fills the gap between the **Big T**, the **Tech** and the Institute catalogue, preserving traditions and providing a handy shoppers' index as well.



Editor Stan Sajdera

### **CARNEGIE LECTURE SERIES**

The first in a three year series of guest lectures financed by a grant from the Carnegie Foundation brought a large array of outstanding figures to our campus in the past year. The grant is to be used for the promotion of historical science, the behavioral sciences, and relations between science and government. The lectures this year emphasized the relationships between science and government, and special emphasis was given to national defense and arms control.

The program first term featured General Maxwell Taylor, General Bernard A. Schriever, C. P. Snow, and Dr. James R. Killian. Second term the series included Prof. C. E. Osgood, Prof. Jerome B. Wiesner, Prof. Tom Schelling, John Strachey, Prof. Kenneth



General Schriever discusses the Air Force development program.

Boulding, Mr. Denis Healey, Prof. Daniel Lerner, Prof. Itiel de la Sola Pool, W. K. H. Panofsky, Prof. I. I. Rabi, and Sir Solly Zuckerman.

Besides the main lectures, each man participated in a faculty - graduate seminar and various discussion groups.



Professor Jerome B. Wiesner discusses current scientific and military problems.



Professor Itiel de la Sala Pool spoke on "Public Opinion and Policy".



Sir Solly Zuckerman and I. I. Robi talk with faculty members on the Athenium stairs.

### JAZZ CONCERT

Caltech presented its third annual Jazz Festival at the Pasadena Civic Auditorium on February 10, 1961, with Bill Stewart, KLAC disc jockey, serving his third year as M.C. Starting the performance were the Hi-Lo's and the Barney Kessel Quartet. Feature artist George Shearing and his Quintet brought the show to a rousing climax. Shearing's time-proven piano-vibes-guitar combination scored again by captivating the Pasadena audience with his popular arrangements. The addition of an Afro-Cuban drummer for his final numbers put considerably more life into both quintet and audience and brought the group back for several encores. Though disappointing to the jazz purist, the concert was well received by the Pasadena community which filled both the auditorium and ASCIT treasury for the third consecutive year.



### ASCIT FORMAL

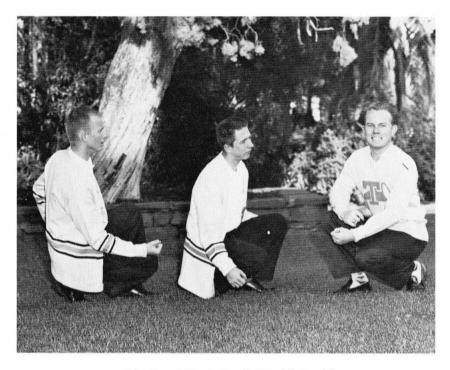




Swaying to the music of Wayne Songer's Band, over a hundred couples danced away the evening of February 18th in the Cordova Room of the plush Beverly Hilton Hotel. Lilting music, pleasant conversation and "les plus belles femmes" resulted in the most enjoyable ASCIT Formal in years.

## YELL LEADERS

The cheerleaders had a lot of fun roasting the Pomona Sagehen and accompanying the stolen Oxy Tiger across the field at halftime, but none of the magic seemed to work. Very special thanks go to Judy Roberts and Kathy Lang who stuck with the job through thick and thin and performed spiritedly all the while. Wendell Mendell, John Sovari, and Howard Monell managed to squeeze some lusty cheers out of the small but enthusiastic Cal Tech following.



John Sovari, Howie Monell, Wendell Mendell

### **DIVIDER STORY-ROSE BOWL R.F.**

The spectators at this year's Rose Bowl football game in January were given a special treat during the half-time ceremonies when what would have been the monotony of a routine traditional Washington sequence of card formations was unexpectedly interrupted by one of the most lavish examples of Cal Tech prankstership in its history. All went well for the Washington card section director, running complacently through the first run of his planned formations. The first time that anything had gone wrong was in the tenth formation when the word CALTECH appeared instead of Washington. Suspicions were confirmed with the backwards spelling out of the script "Huskies," and the appearance of the Caltech Beaver instead of the Washington Mascot in the Twelfth Trick. By this time the bewildered card stunt director was ready to call it a day, and he ground the proceedings to a halt.

The Washington card stunt team was the victim of fourteen Lloyd House members who sacrificed the customary conviviality of New Year's Eve to labor over 2332 cards that were to be used in the coming Rose Bowl performance.

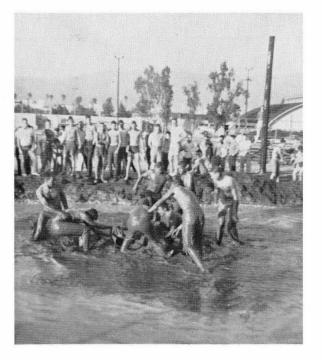
Sometime shortly before Christmas the idea of pulling this card stunt occurred to these pranksters. A few appropriately placed phone calls ascertained that the University of Washington band would arrive December 29 to stay at Long Beach State. Shortly after the arrival a reporter for the Dorsey High School "Dorseygram" dropped by the Long Beach dormitory and asked to see the card stunt director. This obliging soul was very pleased to discuss the operation and the reporter soon knew the detailed workings of the stunts as well as the location of the master sheets and the 2332 cards. The reporter returned an hour later for another talk, but the director was unfortunately at dinner—so to insure accurate journalism the reporter took one card from the middle of the heap.

Very quickly after the reporter had returned to headquarters (the Lloyd House dining room) and the card rushed to the printers, there appeared 2300 near duplicates. An attempt to dye the cards to match the tattered and worn real ones failed, so the schemers decided to gamble on the the new cards getting through. Time: Friday, December 30.

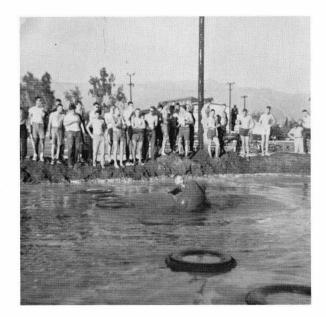
The next day the interviewer again failed to find the director in his room—since the whole Washington contingent was at Disneyland—so he borrowed the master plans, large pieces of graph paper colored in the manner that the stunts were to appear. In the sanctuary of the Lloyd dining room, the conspirators spread out the substitute cards before them. In the short space of 140 man-hours, a new set of cards emerged with the "correct" instructions stamped on them. The cards were quickly returned to Long Beach. The group, their work now done, sat down to await the game and one of the best executed of all Caltech stunts.

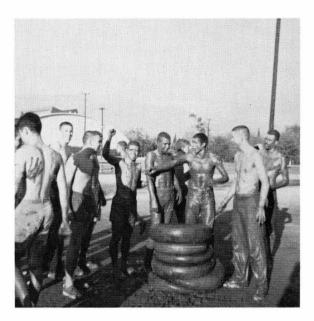
## MUDEO





Once again came the fateful day. There were the usual meek, gentle frosh milling about in a snorting mob. However, the bronze-bodied, powerful sophomore men calmly waited for the trial by mud to come. Capt. Pete Fischer, clad only in his blue dress shorts and a cast about his arm, quietly surveyed the scrawny bodies nervously pawing the ground across the gaping maw of the pit. At the sound of the junior judge's whistles, he stepped bravely into the mire and to his amazement, immediately sank to eye level. Glancing wildly about, he saw each of his behemoths fall to the same fate and then helplessly watched the frosh lightweights float by on their backs. The wily sophs retaliated by offering to throw Ed Evans into the pit if the judges would "fix" the contest. Naturally the honest, up standing judges agreed and were immediately dunked by the angry frosh. Thus passed another Mudeo into history.





## BAND



1st Row, left to right: L. Kugler, R. Russel, D. Norman, D. Helfman, J. Wise, B. Farrell, D. Agresti. 2nd Row: O. Seely, E. Nummela, J. Dash, D. Kauffman, C. Olson, G. Preston, T. Luboeansky, R. Young, R. Maxson, R. Gatterdam, D. Terwilliger, A. Wright. 3rd Row: D. Hill ,H. Gier, M. Drazin, D. Krause, C. Velline, D. Hammer, B. Jernigan, G. Scott, B. Tivol, B. Diller, P. Mazur, B. Hunter, J. Sagawa, B. Belanger. Standing: D. O'Hara, J. Donnelly, S. Brumelle, D. Harris, J. Deichman.

This year the band has become a very active organization. With about forty members, the greatest number since it was reorganized five years ago, it has been able to expand its concert program to include three concerts a year. The quality of the music and of the performances has risen steadily with each new concert. At athletic events the band is always present, boosting the team with spirited playing and equally enthusiastic cheering. Once again this year, the band played at Disneyland. Caltech is the only small college to have been so honored twice, and the Disneyland concert promises to become traditional.

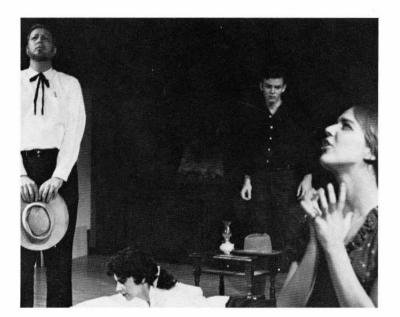
Much of the credit for the band's fine record goes to Mr. John Deichman, who comes each week from Tarzana to direct the group. He is well known among Southern California music circles as a man of many musical activities, including the direction of the Charger's band. So for him, leading our band is a labor of love. Assisting him are Dave Kauffman, the band manager; Brian Belanger, the secretary; and George Scott, the librarian. Without the able administration of these men, the band could not function.

The growth in the band's numbers is only half the growth in its spirit. However, the band is an informal group, and there is no pressure put on any of its members to attend events. Still, attendance is excellent, as is evidenced by the large number of band award jackets around the campus. The members have always felt a real pride in belonging to the band, and this pride continues to grow as the band becomes a greater and greater part of Caltech life.

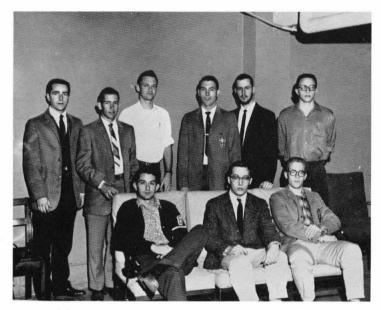
### **DRAMA CLUB**

The Drama Club was very active last year and has continued to grow in size and quality during this year. Last year they produced readings of the **Caine Mutiny Court Martial** and **Antigone** as well as the third term ASCIT play, **Dark of the Moon**. During the summer, they produced "**Three Sisters**", and this year they continued with reading of **J**. **B**. and **My Heart's in the Highlands**. The play third term will be **Camino Real**.

The president of the club during this past year has been Bob Poe, and all productions were directed by former Tech student Mike Talcott.



Preacher Hagler (Stu Goff) and Mrs. Summey (Sandra Kollors) pray for Barbara Allen (Tami Kirk) as John returns from Old Baldy Mountain. — "Dark of the Moon".



**1st Row**, left to right: Pete Lippman, Bob Poe and Mike Lampton. **2nd Row:** Bill Schrader, Rick Harris, Art Robinson, Bill Hogan, Bob Lawler, and John Neumeyer.



John Human (Art Robinson) sets Marvin (Pete Lippman) up for a little bolt of lightning.—"'Dark of the Moon''.

MODEL U.N.

At this year's Model United Nations, held at the University of Oregon at Eugene, Caltech was ably represented by Roger Noll, Chairman, Jim Geddis, Bob Koh, Sid Liebovich, Lance Taylor and Tom Tisch. The Model U. N. is an annual conference, attended by delegates from many western colleges, each college representing one country. The organization and agenda are identical to that of the actual United Nations, and the delegates attempt to represent the authentic views of their country. Caltech, representing the Dominican Republic, was one of the outstanding delegations, making valuable contributions to the fields of South African problems and disarmament. After this year's accomplishments, the delegates anticipate that next year will bring even greater success.



Left to right: Roger Noll, Tom Tisch, Lance Taylor, Jim Geddis, Bob Koh.



Left to right: Gary Lorden, Barry McCoy, Carl Rovainen, Kip Thorne, Roger Noll, Stan Klein, Richard Karp.

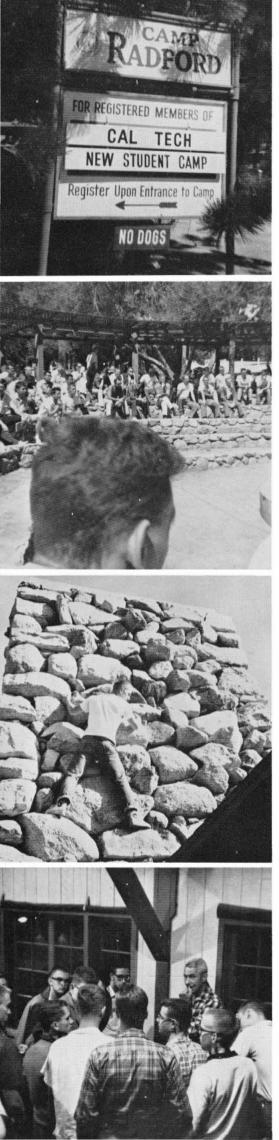
## **DEBATE CLUB**

The Caltech Debate Club culminated another successful year with a tour of Hawaii. Under the tutelage of Mr. Dwight Thomas and the presidency of Kip Thorne, the debaters reaffirmed their standing as one of the top teams in the southland. With the return of Junior Kip Thorne, the Caltech debate team can next year expect to set new standards of excellence and achievement.

Pete Lazlo, Ray Borglo

## **DANCE CLASS**

Ascit Dance Class meets every week in the lounge of one of the student houses. Instructions are given in all popular forms of dancing. It is dedicated to the belief that regardless of how poor a dancer you may be, there is a worse dancer in the class.



## NEW STUDENT CAMP

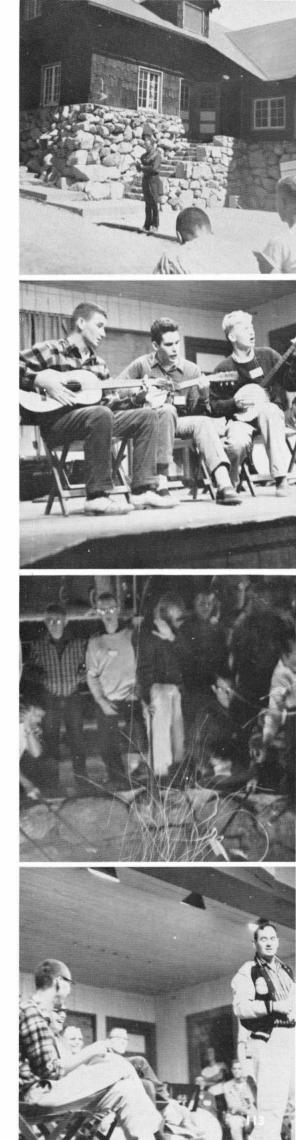
On the sunny afternoon of September 22, a handful of upperclassmen herded 200 freshmen and a few transfer students into six waiting buses. Replete with name tags, sleeping bags, this year's **little t** and the first issue of the California Tech, these newcomers to the Cal Tech scene wended their way to New Student Camp.

The lack of rotation this year had an effect on the general atmosphere of the camp through a minimum of aggressive enthusiasm on the part of the upper class counsellors. The faculty speeches in the fire circle also had something of a dampening effect by painting a more realistic picture of campus life than had been done in the past.

However frosh camp as a whole was a resounding success; the freshmen were impressed with the friendliness and frankness of everyone, especially the faculty representatives. There was the usual plethora of mountain golf, volleyball, and bridge. The faculty-upperclassmen steamroller crushed the freshmen in the traditional softball game. Geary Younce demonstrated some sort of ability by scaling the lodge's stone chimney. And the first test of SAGA Food Service was rather inconclusive.

On the last night, Dean Strong and Dean Eaton had their usual verbal battle to everyone's delight. Tom Tisch sold newspapers, and John Stromberg pushed green security blankets for those cold nights. The upperclassmen's skit completely wiped out the freshmen though few of the latter seemed to notice or care. Larry Weaver's bass voice was clearly the hit of the talent show. Wendell Mendell aided by Carl Rovainen provided a shining example of cheerleader spasticity. Dr. Dubridge ended the evening on a more sober note with another impressive speech. Everyone was very glad that he had been able to find the time to visit the camp.

On Saturday morning, Dean Strong delivered the denouement speech at the fire circle. The cabins were swept and checked. Finally John Soule gave the All Clear signal, and the busses started home.





1st Row: Cleve Moler, Doug Shakel, Tom Tisch. 2nd Row: Larry Brown, Roger Noll, Skeep Stenhut. 3rd Row: Art Robinson.

### **BEAVERS**

After a year and a half-of inactivity the Beavers reappeared on the campus scene. Long a campus tradition, the group tried to regain some sense of the original purpose of the Club as well as maintain the recent social doings. As a service to the school, the Beavers resumed their high school "visitation" program with the blessings of the Admissions Office and the generous assistance of Dr. Peter Miller. Skip Stenbit took charge of visitations, while Moler and Tisch saw to it that the Beaver Party occurred. Doug Shakel was caretaker president. New membership and a capable crew of officers should have the Beavers back in the middle of campus activities by next year.

### **INSTITUTERS**

The Instituters are students devoted to doing what people ask them. With utterly no listed membership besides the president, (Procurer of cheap labor) and on an entirely voluntary basis, Instituter members help ASCIT, the faculty, and other campus organizations by doing any odd chores that might arise. Thus they may be found taking tickets or ushering at football games or at concerts, managing lighting effects at plays, decorating for ASCIT dances, climbing trees, cooking at the Awards Banquet, working with the Y for a work project, or even ringing doorbells for the American Cancer Finance Drive. Therefore, the Instituters perform vital services for the Caltech community.



1st Row: Don Fahnline, George Muenich, Tom Kiel, Steve Martin, Hugh Kieffer, John Caywood, Kurt Anderson, Dwain Reed, Tom Latham. 2nd Row: Barry McCoy, Mike Townsend, Gary Tibbetts, Dave Pritchard, Ed Miller, Gary Walla, Harold Harrison, Dave Kauffman, Roy Makino. 3rd Row: Albert Whittlesey.



Left to, right: Prof. Mead, Prof. Lauritsen, John Trenholme, Sig Holverson, Dick Zacher, Bob Heath, Frank Matthews, Bucky Smith.

## **PHYSICS CLUB**

The Physics Club met periodically featuring speakers from the campus on interesting subjects. These professors included Dr. Feynman, Dr. Leighton, and Dr. Pellam. The members also engaged in various research projects. The high point of every meeting came when refreshments were served at the end.

### A.C.S.

The Chemistry Club, which is affiliated with the American Chemical Society, presents programs during the year that are of interest and aid to those persons interested in chemistry. The meetings are open not only to ACS student affiliates and junior members, but also to all persons in the chemistry or chemical engineering options. Guiding this group are Jerry Kasper, President, Ray Hribar, Vice-President, Bob Ross, Secretary-Treasurer, and Dr. Norman Davidson, Sponsor.



1st Row, left to right: Norman Gordon, Peter Metcalf, Bob Causey, Dr. Norman Davidson, Ray Hribar. 2nd Row: Matt Couch, Bob Ross, Dr. Fred Anson, Charles Flynn.



Members: Ahmad Abu-Shumays, Sam Allen, Gerry Clough, John Danyes, Lee Elliot, Don Forrest, Bob Hearn, Chuck Ray, Neil Richardson, John Russ, Rick Weingarten.

### A.S.M.E.

The purpose of the American Society of Mechanical Engineers as stated in its charter is "to further the advancement and dissemination of knowledge of the theory and practice of mechanical engineering."

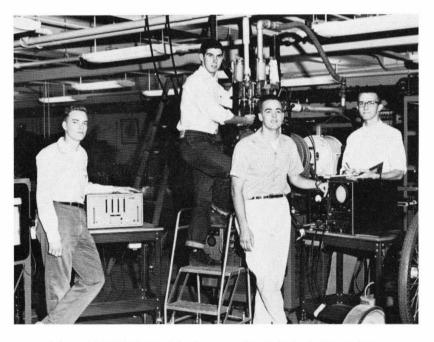
The student section, with the help of its advisor, Professor Charles Crede, serves this goal by bringing the student into contact with both members of the faculty and members of industry. Through its lecture program, it tries to present current techniques and problems of research, development and production.

The highlight of the year is the regional ASME student conference, held this year at the University of Arizona. Members of the various participating schools present papers in a contest, talk shop, and participate in the local social life.

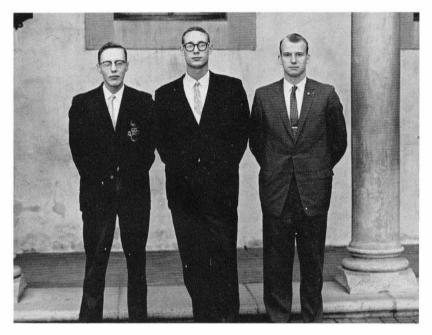
The ASME student section serves an important role by presenting the student members with additional opportunities to help him gain more knowledge in any branch of engineering that is of interest to him.

### S.A.E.

The Caltech student branch of the Society of Automotive Engineers is an organization for students interested in any phase of automotive, aircraft, or missile engineering. The Club provides for its members films, talks, and field trips to local automotive and aircraft concerns, along with an opportunity to participate in the L. A. area activities of the National SAE. Members of the SAE have been engaged in research on automobile smog production. The club is presided over by President John Crossman, with Dr. Acosta as advisor and Marshall Buck as vice-president, secretary-treasurer.



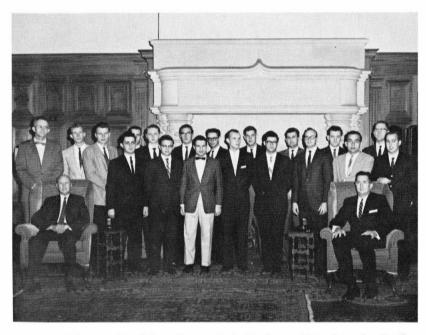
Left to right: Bob Bump, John Crossman, Lonnie DeMent, George Root.



Left to right: Steve Caine, Rich Drew, John Golden.

### I.R.E. - A.I.E.E.

This year the Caltech combined student branch of the Institute of Radio Engineers and American Institute of Electrical Engineers has conducted an extremely active program. The program organized by president Richard Drew included several very interesting speakers. The highlight of the year's events was a field trip to the satellite tracking station at Goldstone. The EE's who are members of the student branch of the I.R.E.-A.I.E.E. find participation in its activities a rewarding addition to their education.



3rd Row, left to right: Cullen, Ernest, Bresi, Kauffman, Birty, Kennedy, Kendle.
 2nd Row: Dr. Longwell, Rice, Richter, Engleman, Preston, Hribar, Bolsaitis, Venegian, Cuffil, Fernandez, Gershman. Seated: Dean Lacey, Dr. Corcoran.

## CHEMICAL ENGINEERING CLUB

The Chemical Engineering Club meets once a month. At each dinner meeting there is a guest speaker who speaks on a topic in his specialty. The club has had people speak on various fields of chemical engineering, such as catalytic crackers (not to be confused with animal crackers), job opportunities in chemical engineering, patent law, and the stock market. The advisors of the club are Dr. William Corcoran and Dr. Paul DeVries Manning.



## **RADIO CLUB**

The Caltech Amateur Radio Club, under the leadership of president Dave Large, is now larger than ever before. Open to all interested people at Caltech, the Club currently has a membership of over 20.

During this year the Club station obtained the call W6UE, which dates back to a Tech radio club of 1926. W6UE's "shack" sports a new HQ-170 receiver and a single-sideband adapter, both provided by ASCIT, and a kilowatt final amplifier built entirely by Club members. (It works.)

The Club, which belongs to the Golden Bear Amateur Radio Net, has provided a free radiogram service to the Caltech community for the second year.

### STUDENT SHOP

During the past year the Caltech Student Shop has continued to provide wood- and metal-working facilities for members who wish to work on hobby projects. This year the Shop, under the leadership of Curt Kuebler, Shop Foreman, has added a mill vise, making the milling machine usable, and several hand power tools to its wood and metal working facilities. The Shop Committee has been gleefully anticipating moving into the shop's new quarters in the Winnett Student Center. When the Center is completed, the shop will have almost twice as much room as in the present, temporary location.

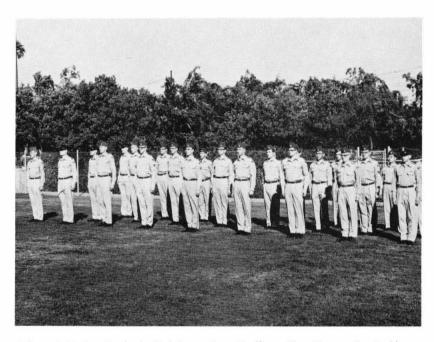
Shop Officers: Foreman, C. Kuebler; Asst. Foreman, J. Smith; Secretary, W. Burke; Treas., Ron Gotterdam; Committeemen: M. Kinter, L. Renger, D. Turner.



Left to right: Dave Turner, Curt Kuebler, John Smith, Ron Gatterdam.

## A.F.R.O.T.C. DRILL TEAM

One of the most select organizations on campus is the Air Force ROTC detachment's drill team. The drill team is an extra-curricular activity open only to those students who demonstrate above average facility in military drill. Every year, the drill team looks forward to a good season. In their only performance so far, though, they lost a close contest in standard drill to San Diego State, perennially one of the strongest teams in the area.



Left to right: Ivar Tombach, Carl Baum, Dave Kauffman, Thor Hanson, Joe Bachlage, Bill Ricks, Terry Murphy, John Burke, Mason Williams, Rick Hake, John Slonski, Doug Hill, Mark Gurnee, Wm. Sconce, Rick Uhrich, Bill Reming, Howard Ono, Malcolm Morrison, David Hearn, Terry Wogan, Douglas Abe, Rich Harris, Roy Jordan, Reg. Clemens.

### **CIVIL DEFENSE CLUB**

The Cal Tech Civil Defense Club is organized to protect lives and campus property in the event of a major or minor disaster. In order to carry out its functions most efficiently, it is divided into four independent divisions — Communications, Fire Safety, First Aid, and Radiological Monitoring.

John Russ is director of over-all program; Bill Rowe, Supervisor of Communications; Bill Weihofen, Chief of Fire Safety Division, Marc Kaufman, head of the First Aid and Rescue Team; and Rich Drew, Director of Radiological Monitoring.



Left to right: Marc Kaufman, Bill Weihofen, Bill Rowe, Mason Williams, John Trenholme, 117 John Russ.

## **CHRISTIAN FELLOWSHIP**

The Caltech Christian Fellowship is a group of students who have regular meetings which include Bible study and special speakers with the purpose of presenting Jesus Christ as Lord and Saviour and of deepening and strengthening the faith of Christians. The president of the group is Gary Swanson; he is assisted by Vice-President Van Hughes and Secretary-Treasurer Clark Benson.



Seated, left to right: Gary Swanson, Clark Benson, Van Hughes, Pieter Koen, Charles Flynn, William Ko. Standing: Ralph Young, Dave Clark, Bob Kruse, Tom Noonan.



1st Row, left to right: Frank Matthews, Carl Baum, President, Robert Arenz, S.J., Father M. Francis Meskill, Chaplain, Father Richard Trame, S.J., guest speaker, Tom Sallee, Harold Harrison, Dr. Bruce Sheldon. 2nd Row: Art Messiter, John Hunter, Harold Nathan, George Reeke, Brian Belanger, Terry Wogan, Alfred Pinchak, Frank Mullin, Tom Bieniewski. 3rd Row: Peter Mazur, Rick Hake, Paul Mikolaj, Joseph Cullen, Pat Dunne, Charles Knapp, Bob Hertel, Gary Mitchell, Ed Bender.

### **NEWMAN CLUB**

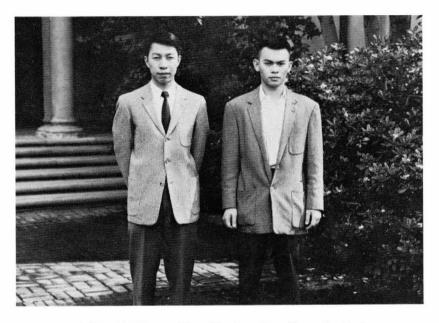
The Newman Club is the student Catholic organization. In addition to the weekly meetings in the house of some Catholic faculty member, it sponsors three talks a term, an annual retreat, and occasional trips to points of interest. Upon completion next year, the Newman center at St. Philips will be their meeting place.

### **DESERET CLUB**

The Caltech Deseret Club is an organization of Mormon students on campus, cansisting of about twelve or thirteen members. Their main purpose is to discuss religious or philosophical questions which they feel are of general interest. An effort is made to keep the meetings informal, so that all may participate. The leader of the group is Dr. George Boyd of the Institute of Religion at the University of Southern California. Meetings are held weekly.



1st Row, left to right: Bill Ricks, George Lawrence, Dr. George Boyd, Joe Free. 2nd Row: Herb Flindt, Bob Mortimer, Richard Jenson, Jim Midgley, Kip Thorne, George Cannon.



Left to right: Norman Wang, Vice Pres., Hung Cheng, President.

## CHINESE STUDENTS' ASSOCIATION

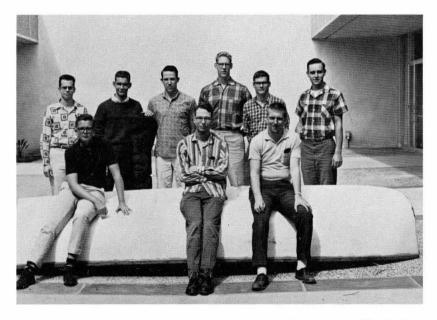
The Pasadena Chinese Student Association was established in 1958 with the purpose of organizing the Chinese students in the Pasadena area. This year its membership has soared to an unprecedented 75 people, of whom 37 are from Caltech. The rest are from P.C.C., U.S.C. and U.C.L.A. It provides needed social activities for its members, holding one major social event each term, along with its group meetings.

### **ALPINE CLUB**

Under the tutelage of Herb Rice, the Alpine Club was one of the more active clubs on campus this year. Safety sessions for the novices and several excursions to Stony Point, Tahquity Peak, and Mount Pacifico were the features of this year's program. Activity will continue through the summer with a trip into the Sierra Mountains already planned and a few other tentative trips. More is planned for next year.



3rd Row, left to right: Rice, Pinchak. 2nd Row: Whittlesy, Burke. 1st Row: Green, Miller, Straka, Bacon.

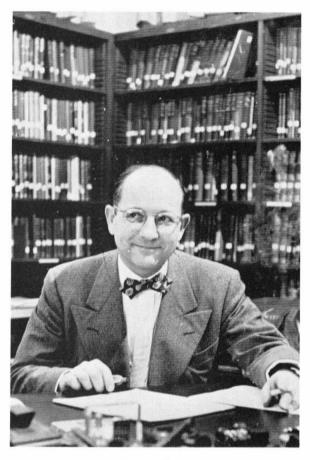


3rd Row, left to right: Alan Danger, Bob Williams, Joseph Christensen, John Letcher. 2nd Row: John Rayner, Allan King. 1st Row: Dave Hyde, Harold Stark, Bob Despain.

## SAILING CLUB

With Keith Matthews and Don Marks heading the Sailing Club this year, many more land-locked Techmen have cashed in on this urge to meet the sea; so much so, that the members per boat ratio is higher than ever before.

There is also the Racing Team for those with a more than passing interest in sailing. A member of the inter-collegiate Yacht Racing Assn., the racing team has entered in regattas up and down the coast, traveling twice to Berkeley this year alone. Active this year were Skipper Dan Marks, Keith Matthews, Hal Stark and Bob Moore and crews Alan Danger, Don Jensen and L. Miller.



D. S. Clark

The Caltech Alumni Association is an activity of little concern to most Caltech undergrads. It is thought of variously as the donor of the Alumni Swimming Pool, a contributor to the development program, or just another corner of Doc Clark's empire.

Many techmen eventually discover that if they receive a degree from noble CIT they automatically become alumni. And many of those who have already achieved this status have joined the Alumni Association. For joining same, and paying an absurdly minimal fee, they receive the alumni magazine **Engineering and Science**, (pride and joy of Ed Hutchings and Gerda Chambers and probably the best done alumni publication in the country) and are furnished with the Alumni Directory, (who's what and where, in science, engineering and moneymaking) among other things.

Alumni young, and not so old, gather on campus once a year for Alumni Seminar Day. This is an occasion for much slapping of backs, introducing of wives, listening to lectures and eating of spaghetti in the Student Houses. The Association also sponsors an annual meeting in downton L.A. and chapters in several of the larger cities of the U.S. also meet and socialize.

# CAL TECH ALUMNI ASSOCIATION

Many of the undergraduates who care at all about such things lament that our alumni are different from those of other schools and that our alumni are incredibly inactive (for better or for worse). The truth is that our alumni are less noisy, but not less active. That they are different is probably true, especially when one remembers that the Caltech student body is the group directly responsible for this condition. One should also remember that Tech has graduated less than ten thousand men, CIT, TCT, TIT, TPI, ETC. included. Remember too that the new Varsity Rating Trophy was provided by the Alumni Association, and that the Association defrayed much of the cost of the last Interhouse Dance.

In the news last year was Caltech's third consecutive winner of the **Sports Illustrated** Silver Anniversary All-America award. Mr. Frank W. Davis of Convair, Forth Worth, was twice captain of the Varsity



Frank W. Davis



. . . . once a year

football team and winner of the Wheaton Trophy for two successive years. He was active in a number of other sports, was a representative to the BOC for two years and was president of the Beavers. Mr. Davis received his B. S. in 1936 in M. E. His recent extra-curricular activities included chairmanship of the Caltech Development Program, Fort Worth Division. Any questions you may have about the Alumni Association should be directed to the permanent secretary of the Association in Throop, lovable ol' Doc Clark. He will gladly reveal to you the benefits of membership in the association, as well as the intricacies of achieving the prerequisite status of graduate. His only request is that you make no attempt to get the Association in any way involved in the Rotation controversy. It's things like that that are apt to turn a man's hair grey!

# INDEX

#### A. C. S.

BOB CAUSAY MATT COUCH CHARLES FLYNN NORM GORDON RAY HREBAR PETE METCALF BOB ROSS

#### AFROTC DRILL TEAM

DOUG ARE CARL BAUM JOE BACKLAGE JOHN BURKE REG CLEMENS CLARENCE FUZAK MARK GURNEE RICK HAKE THOR HANSON RICK HARRIS DAVE HEARN DOUG HELL RAY GORDAN DAVE KAUFFMAN MALCOLM MORRISON TERRY MURPHY HOWARD ONO BILL RAINING BILL RICKS WILLIAM SCONCE IOHN SLONSKI IVAN TOMBACH RICK ULRICK MASON WILLIAMS TERRY WOGAN

#### ALPINE CLUB

BILL BURKE DAVE CARTA TOM DACON LARRY FITZGERALD RAY GREEN ROGER GRIFFAN JOHN GROVER BILL HASSENSAKE HUGH KIEFER ED MILLER ALF PINCHEK HERB RICE BILL STRAKA BRUCE ULRICH AL WHITTLESY JEFF WISE

#### A.S.M.E.

AHMAD ABU-SHUMAYS SAM ALLEN GERRY CLOUGH JOHN DANYES LEE ELLIOT DON FORREST BOB HEARN CHUCK RAY NEIL RICHARDSON JOHN RUSS RICH WEINGARTEN

#### BAND

DAVID AGRESTI BRIAN BELANGER JAN DASH BOB DILLEP MIKE DRAZIN JOEL DONNELLY BILL FARRELL RON GATTERDAM HAROLD GEER DAVE HAMMER RICK HARRIS DAVE HELFMAN DOUG HILL JOHN HUNTER BOB JERNIGAN DAVE KAUFFMAN DAN KRAUSE LARRY KUGLER TOMMY LUBORNANSKY RICK MAXSON PETE MAGUR DICK NORMAN ERIC NUMMELA DON O'HARA CAROLE OLSON GEORGE PRESTON KENT RUSSELL JIM SAGAWA GEORGE SCOTT OLLIE SEELY DON TERWILLIGER BILL TWOL CHRIST VELLINE JEFF WISE AL WRIGHT RALPH YOUNG

SHELLY BRUMELLE

#### BEAVERS

BILL BAUER LARRY BROWN BILL FARRELL JIM GADDIS вов кон CLEVE MOLER ROGER NOLL JOHN PITCHARD ART ROBINSON DOUG SHAKEL JERRY SIEGEL JOHN STENBIT LANCE TAYLOR TOM TISCH JOHN TODOROFF CLYDE ZAIDENS

#### BIG T

MIKE BALL JIM BLACKMOR PETE FISCHER MIKE LEW BOB LIEBERMAN JOHN MADEY JULIAN PRINCE HERM RICKERMAN BOB SCHMULLEN KAY SUGAHARA BOB WILLIAMS

#### CALIFORNIA TECH

CRAIG BOLON DAN ENTINGH LARRY GERSHWIN DAVE HELFMAN RICHARD KARP CHUCK LEONARD BUTCH LUNGERSHAUSEN BILL MEISEL CLAVE MOLER HOWIE MONELL ROGER NOLL BARRY PETERSON LANCE TAYLOR TOM TISCH JOHN TODOROFF

#### CHEMICAL ENGINEERING CLUB

JOHN ARNDT CRAIG BROSI JOE CULLEN VIC ENGELMAN TERRY ERNEST RAY FERNANDEZ BOB GERSHMAN RAY HRIBAR DAVE KAUFFMAN DAVE KANDLE GEORGE PRESTON HERB RICE ROLF RICHTER RICH SEARS

#### CHINESE STUDENTS ASSN.

DICK CHANG HERB CHEN BILL CHIN WENDELL ING BOB KOH BOB LIN NORM WANG YING-BUN WOO JIMMY YOH ALBERT YU

#### CHRISTIAN FELLOWSHIP

CLARK BENSON BOB BUMP DAVE CLARK CHUCK FLYNN VAN HUGHES BILL KUNG WILLIAM KO BOB KRUSE TOM NOONAN BUNSO OTANE DARDEN POWERS GARY SWANSON AL TYRRELL LARRY WEAVER RALPH YOUNG

#### CIVIL DEFENSE CLUB

SAM ALLEN BUD BARNES STEVE CAINE GEORGE CANNON ALBERT COSAND STARR CURTIS JOSEPH DAUBEK BOB DESPAIN

BILL DOWD RICH DREW LEE FILLOT CHUCK FLYNN STEVE GOLDNER STEVE GREEN DON HARLOW BILL HOWARD LAS INGBER PAT ION MARC KAUFMAN BOB KOH BOB LUSHENE PETE MAYER JAMES McCOY CYRUS MEAD ROGER MINEAR HOWARD MONELL BILL NICHOLSON RICK O'CONNELL NEIL RICHARDSON ART ROBINSON BILL ROWE JOHN RUSS BOB SCHOEN BILL SCONCE JOHN SOULE JOHN TRENHOLME HOWIE WANG BILL WEIHOFEN MASON WILLIAMS

#### DANCE CLASS

RAY BARGLOW PETE LASZLO

#### DEBATE CLUB

RICHARD KARP STAN KLEIN GÀRY LORDEN BARRY McCOY ROGER NOLL CARL ROVAINEN

#### DESERET CLUB

NORM BURNINGHAM GEORGE CANNON STARR CURTIS HERB FLINDT JOE FREE RICHARD JENSON JON KELLY GECRGE LAWRENCE JIM MIDGELEY BOB MORTIMER BILL RICKS ED SEPPI KIP THORNE

#### DRAMA CLUB

RICH HARRIS BILL HOGAN MIKE LAMPTON BOB LAWLER PETE LIPPMAN JOHN NEUMEYER BOB POE BILL SCHRADER

#### GLEE CLUB

DOUG ABE JOHN ARMSTRONG DAVE BARKER DAVE BARTON TOM BOPP KEN CASEY RON COUNSELL ROM CREIGHTON DELMAR CURTIS TED DAVEY JIM DAVIS RAIPH DAWSON DON DICK DAVE DICKSON JOEL DONNELLY DOUG FENWICK BILL FRANCES LYMAN FRETWELL KENT FREWING DAVE GRIMES CARL HAMILTON VINCE HASCALL DAVE HELFMAN ALAN HINDMARSH JAMES HOHE BILL HOWARD BILL HOWARD PETE JOHANSON ART JOHNSON DAVE KAUFEMAN BOB KRUSE LARRY KUGLER JOHN LOHMAN GARY LORDEN STEVE MASTEN LAUREN MERRITT GARRY MITCHELL BOB MOORE GEORGE MUENICH TERRY MURPHY BOB NEILSON RICH O'CONNELL MIKE PERIMAN GEORGE PRESTON BILL ROWE TOM RUSKEL JOHN RUSS RUSS RUSSELL OLLIE SEELY LARRY SLOSS FRANK SPARD WALTER SPRECHT DON TERWILLIGER GERALD THOMAS DICK THOMPSON CHRIST VALLINE JIMMY YOH

#### HONOR CERTIFICATES

JOHN ARNDT JOE BACKLAGE ELI CHERNOW RICK HARRIS BILL HOGAN GARY IHLER TOM KEEL GARY MITCHELL GEORGE MUENICH JULIAN PRINCE ART ROBINSON CARL ROVAINEN JIM SAGAWA DOUG SHAKEL SKEP STENBIT JOEL TENENBAUM DICK THOMPSON ART TURNER

#### HONOR KEYS

BILL BAUER LARRY BROWN ROD DOKKEN JOEL DONNELLY JOHN GOLDEN BOB KOH SID LEIBOVICH TOM LITLE JOHN LOHMAN ROGER NOLL DICK NORMAN JOHN PRITCHARD LANCE TAYLOR TOM TISCH JOHN TODOROFF GARY WALLA CLYDE ZAIDENS

#### INSTITUTERS

KURT ANDERSON JOHN CAYWOOD DON FAHNLINE HAROLD HARRISON DAVE KAUFFMAN TOM KEEL HUGH KIEFFER TOM LATHAM ROY MAKINO STEVE MASTIN BARRY McCOY ED MILLER GEORGE MUENICH DAVE PRITCHARD DWAIN REED GARY TIBBETTS MIKE TOWNSEND GARY WALLA ALBERT WHITTLESEY

#### IKE:-AIEE

STEVE CAINE RICH DREW JOHN GOLDEN

#### LITTLE T

STAN SADJERA

#### MODEL UN

JIM GADDIS BOB KOH SID LEIBOVICH ROGER NOLL LANCE TAYLOR TOM TISCH

#### NEWMAN CLUB

CARL BAUM BRIAN BELANGER ED BANDER TOM BIENIEWSKI JOE CULLEN PAT DUNNE RICK HAKE HAROLD HARRISON BOB HARTEL JOHN HUNTER CHUCK KNAPP PETE MAZUR ART MESSITER PAUL MIKOLAY GARY MITCHELL FRANK MULLEN HAROLD NATHAN ALERED PINCHAK GEORGE REEKE TOM SALLEE TERRY WOGAN

#### PHYSICS CLUB

BOB HEATH SIG HOLVERSON FRANK MATTHEWS BUCKY SMITH JOHN TRENHOLME DICK ZACHER

#### RADIO CLUB

DICK BROCKMEIER JIM CAMBELL GEORGE CANNON JIM FOLLANSBEE JOHN GOLDEN JIM KESSEL DAVE LARGE ARNOLD LESIKAR MILT LEVENBERG JOHN MADEY CARVER MEAD GARY MITCHELL LEE MOLHO GEORGE REEKE BILL REINING HERM RICKERMAN DANNY ROSS BILL ROWE BOB RUDDIG JOHN SLONSKI MASON WILLIAMS

#### S.A.E.

BOB BUMP JOHN CROSSMAN LONNES DaMENT GEORGE ROOT

### SAILING CLUB

JOSEPH CHRISTENSEN ALAN DANGER BOB DESPAINE DAVE HYDE ALLAN KING JOHN LETCHER JOHN RAYNER HAROLD STARK BOB WILLIAMS

#### STUDENT CAMP COUNSELLORS

BILL BAUER LARRY BROWN BEN BURKE KEN CASEY GARY CHAMNESS ELL CHERNOW ROD DOKKEN JOEL DONNELLY JIM GEDDIS BILL HOGAN GARY IHLER BOB JUOLA BOB KOH DAVE KUBREN SID LEIBOVICH JOHN JOHMAN WENDELL MENDELL ROGER NOLL DAVE PRITCHARD CARL ROVAINEN STAN SAJDERA OLLIE SEELY DOUG SHAKES JOHN SOULE JOHN STENBIT DOUG STEWART JOHN STROMBERG TOM TISCH GARY WALLA GEARY YOUNCE CLYDE ZAIDENS

INDEX

#### STUDENT SHOP

BILL BURKE RON GOTTERDAM MALCOLM KENTER CURT KUEBLER LEE RANGER JOHN SMITH DAVE TURNER

#### TAU BETA PI

BILL BAUER CLARK BENSON LARRY BROWN BEN BURKE ELI CHERNOW JOEL DONNELLY BARRY GORDON STEVE HECHLER DICK HESS BENT HULD JERRY KASPER SID LEIBOVICH DAVE LOEBBAKA GARY LORDEN FD MILLER CLEVE MOLER JOHN NEWMEYER DICK NORMAN BOB POE HERB RICE BOB RUDDICK MIKE RUECKER TOM SALLEE MARTY SCHULTZ MIKE SCHWAB LARRY SHAMPINE HAROLD STARK SKIP STENBIT BYRON SUMMERS ARCH THIESSEN

DICK THOMPSON KIP THORNE TOM TISAK JOHN TODOROFF DAVE TURNER CHRIST VELLINE AL ZACHER CLYDE ZAIDENS

#### TOTEM

RAY BARGLOW DAVE BENSON BOB DILLER STEVE JOSEPH BARRY McCOY

#### YELL LEADERS

HOWIE MONELL JOHN SORVARI WENDELL MENDELL

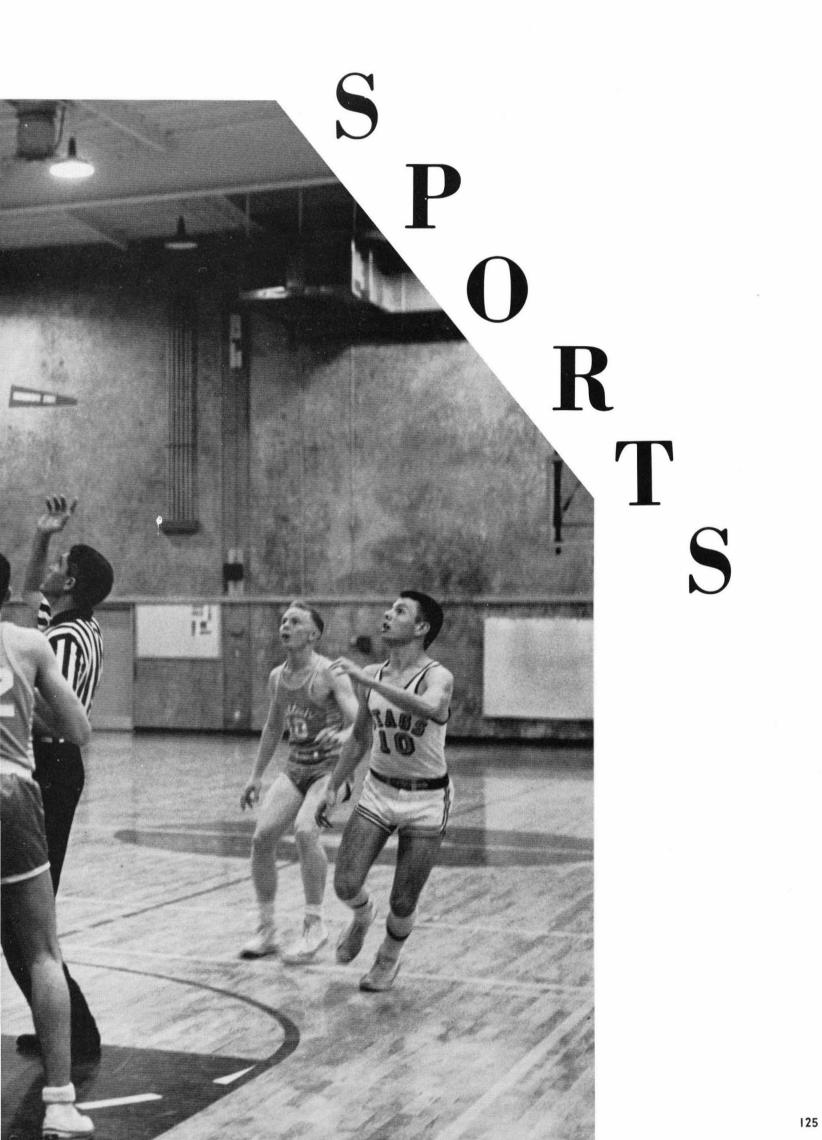
#### CALTECH Y.M.C.A.

LAWRENCE ALTMAN KURT ANDERSON WILLIAM ANDERSON DONALD ANEY MIKE BALL RAY BARGLOW DAVE BENSON ALAN BERNSTEIN ROGER BLAND GEORGE BOLON JAMES D. BOWMAN CHUCK BROOKE CRAIG BROSI BRUCE CARTER GERALD CHANDLER ELI CHERNOW SEUNG CHOY DAVID CLARK EDWARD CLINE THOMAS CROCKER JOHN CROSSMAN GARY DAHLMAN RICHARD D'ARI TOMAS DeKLYEN ROBERT DESPAIN DAVID EDWARDS TED ELCONIN DANIEL ENTINGH DONALD FAHNLINE JOHN GOLDEN STEVEN GOLDNER BARRY GORDON NORMAN GORDON R. B. GRIEPP RUSSELL HAGEMAN DAVID HAMMER THOR HANSON RICHARD HARRIS HAROLD HARRISON DAVID HEARN STEPHEN HECHLER DAVID HELEMAN LEWIS HEMPHILL WILLIAM HOGAN LORNE HOOTNICK

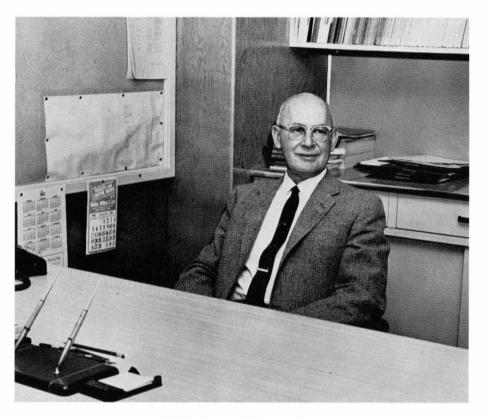
ALAN HUBER JOHN HUNTER DAVID HYDE RICHARD KARP JON KELLY HUGH KIEFFER STANLEY KLEIN DAVID KUBRIN CHRIS LARSEN KENNETH LARSON STEPHEN LEPPLA STUART LINN ARTHUR LIPSON JOHN LOHMAN PONZY LU W. LUNGERSHAUSEN JOHN MADEY KENNETH MANLY FRANK MATTHEWS RICHARD MAXSON JOHN MAY LAWRENCE McCOMBS BARRY McCOY CLEVE MOLER LEE M. MOLHO HOWARD MONELL NICK MOREZ ROBERT NASON ROGER NOLL RICHARD NORMAN DONALD O'HARA HOWARD ONO BARRY PETERSON GEORGE PRESTON DAVID PRITCHARD PAUL PURDOM LARRY RABINOWITZ DWAIN REED NORMAN REITZ JAMES RICH RICHARD ROBERTSON ARTHUR ROBINSON DENNIS ROSS ROBERT ROSS CARL ROVAINEN TOM RUEBEL PETER RUX MICHAEL SCHWAB RALPH SHUEY RONALD SIPHERD PHILLIP SOKOLOVE ROBERT SORENSEN DOUGLAS STEWART KENNETH STOLARSKY LANCE TAYLOR STEPHEN TEIGLAND JOEL TENENBAUM LYNN TEN EYCK DON TERWILLIGER RICHARD THOMPSON LEON THOMSEN KIP THORNE GARY TIBBETTS JOHN TODOROFF JOHN TRENHOLME CHARLES TRIMBLE GARY WALLA FRED WEINGARTAN CARL WOEBCKE STEVEN YELLIN

WILLIAM HOWARD





## **ATHLETIC STAFF**



Athletic Director: H. Z. Musselman

The athletic staff is one of Tech's most efficient and able organizations. Under the capable supervision of H. Z. Musselman, the intercollegiate sports run smoothly. Coach Jim Nerrie directs the physical education and interhouse programs. Secretaries McGee, Wayne, and Shoup handle the office chores of the department. The staff is rounded out by the coaches of the intercollegiate sports, pictured with their respective teams, and the trainer and equipment managers.

Coach Jim Nerrie

Secretaries: Miss McGee, Mrs. Shoup, Mrs. Wayne.





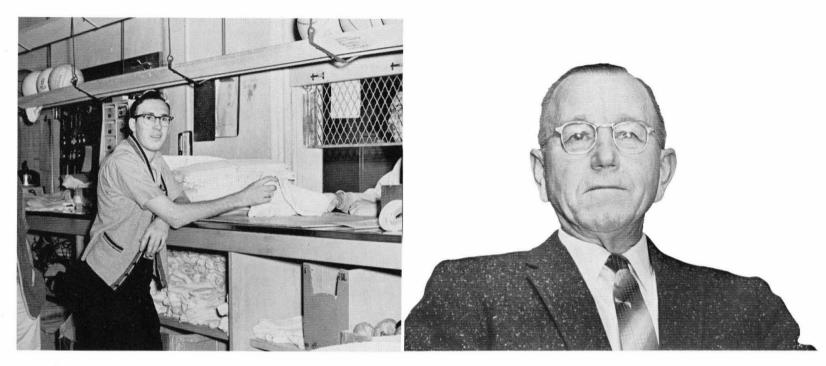
Trainer: Floyd ''Doc'' Hanes

Floyd "Doc" Hanes has become a legend at Caltech. A permanent fixture as trainer since 1923, Doc specialized in physical and mental therapy, which he liberally administered to injured Tech athletes. His counsel and sagacious advice has eased many players over a mid-season, or mid-term, slump. In addition to his duties as trainer, Doc served as crosscountry and track coach during the war years when Tech athletic rosters were enriched by the V-12 trainees.

His services as medical consultant, interim coach, and erstwhile psychiatrist will be sorely missed. An era is at a close: Doc Hanes, the balm of hurt minds and bodies, retired in June, 1961.



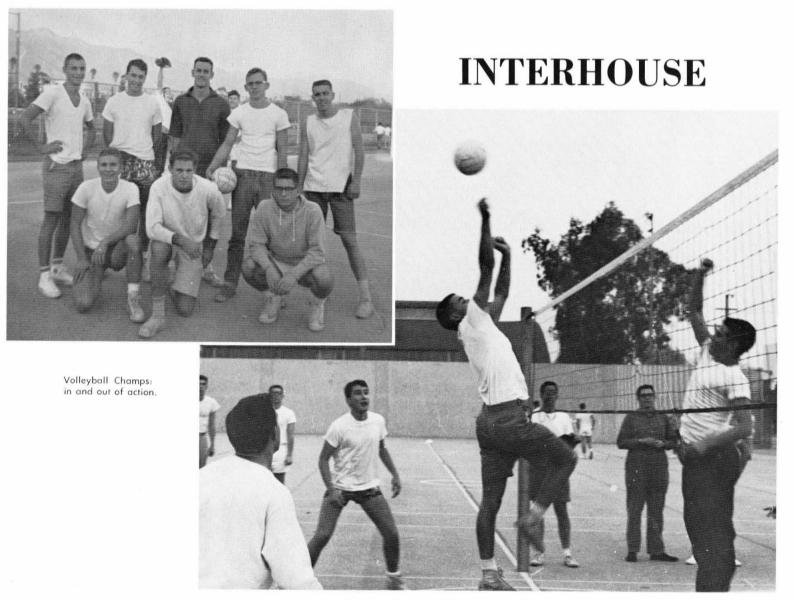
Of our swimming aggregation, we are justly proud.



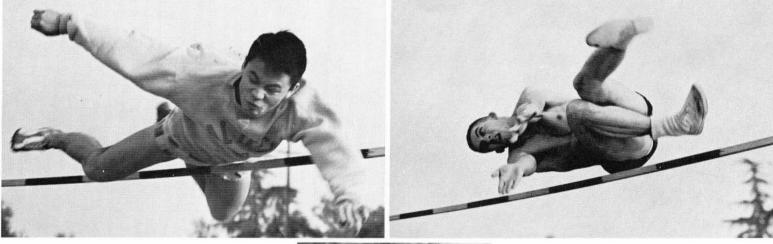
Equipment Managers: Lloyd D. "Fergy" Ferguson and Carl Lytle.

Carl Barrs

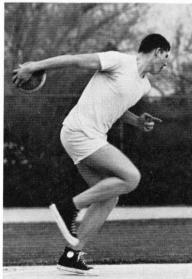
Following thirty-six years of service as equipment manager, Carl Barrs retired in November, 1960. To him go our best wishes and thanks.



## **TOO MUCH ANGLE**



Above: Up and over they go.



Left: Our own whirling-dervish.

Below: "Superfrosh" scores again.

STANDINGS

Totals	48	821/	521/	70	70	001/	001/
Football	6	15	3	12	191/2	9	191/2
Track	9	161/2	6	12	3	21	161/2
Tennis	15	7 1/2	12	21	18	7 1/2	3
Swimming	3	6	9	15	191/2	191/2	15
Volleyball	12	18	9	15	3	6	21
Softball	3	191/2	131/2	6	9	191/2	131/2
Sport	в	D	F	L	Р	Ri	Ru



## WATER

#### 1960 SEASON RECORD VARSITY

CIT	
13 Pasadena City College	7
14 Alumni	8
2 Orange Coast College1	3
101	1
14 San Fernando State	2
8 Claremont - Mudd	4
18 Pomona	7
6 UCLA	7
13 Redlands	9
61	0
6 Claremont - Mudd	5
3 Pomona	7
5 Los Angeles State1	1
5 Redlands	0
7 Occidental	2





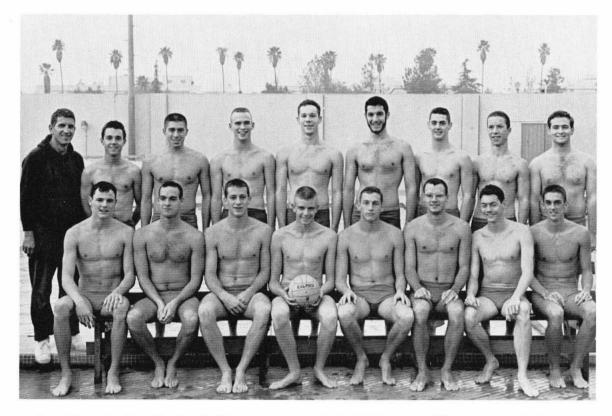


### 1960 SEASON RECORD FROSH

### CIT

0	,		•	•		•	•	С	10	11	e	r	n	0	n	t	-	Ν	11	JC	łc	ł	•		•	•	,	•		15
6	•	,			ï				ì			F	°0	n	n	01	n	a						,					•	5
2					,								ι	JC	CI	-	A						•				•		•	16
11						,		•			ł	R	e	d	lo	In	C	Is	.,											15
1											C	)(	cc	i	d	er	nt	a	I											9
2								C	1	a	re	er	n	0	n	t	-	N	۱	JC	lo	ł								15
6			,									F	°0	n	n	01	n	a												4
10	•										ł	R	e	d	lc	ır	C	ls					,			•				9
3				•							C	)(	cc	i	d	e	nt	a	I											16

## POLO



1st Row, left to right: Bruce Chesebro, Fred Hameetman, Roger Bland, Al Huber, Gary Tibbetts, John Smith, Gary Turner, Mike Newton. 2nd Row: Coach Warren Emery, Bob Russell, Tom Tisch, Jim Shaw, Pat Manning, Sherm Gratch, Gary Mitchell, Dave Ollis, Bob Heath.

The Caltech varsity waterpolo team had its best season in five years as it tied for SCIAC championship honors with Pomona. The team was led by All-Conference first team choices Bruce Chesebro, Fred Hameetman, and Tom Tisch. The aggressive and fastmoving forward line of Chesebro, Hameetman, and Ruby was ably backed by the fine defensive work of Tisch, Tibbetts, Bland, and Buck. Highlight of the season was an 18-7 Pomona victory.

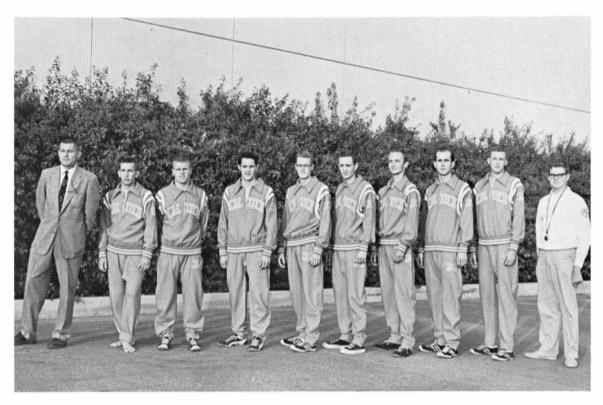
### FROSH

Like young Beavers taking to water; the Techfrosh team started short on experience and personnel, but improved throughout the season. Dave Seib, Mike McCammon, and Marc Kaufman were the outstanding players for the team and will definitely contribute to next year's varsity. The progress of the Beaverbabes was indicated by the greater ease with which they dumped Pomona and Redlands at the season's end, when compared with the beginning of the season.

> At Right: **1st Row**, left to right: Ray Weiss, Mike McCammon, Marc Kaufman, Elliot Harry. **2nd Row:** Coach Warren Emery, Art Turner, Dick Uhrich, Dave Lambert, Tony Williamsmgr.



## VARSITY CROSS-COUNTRY



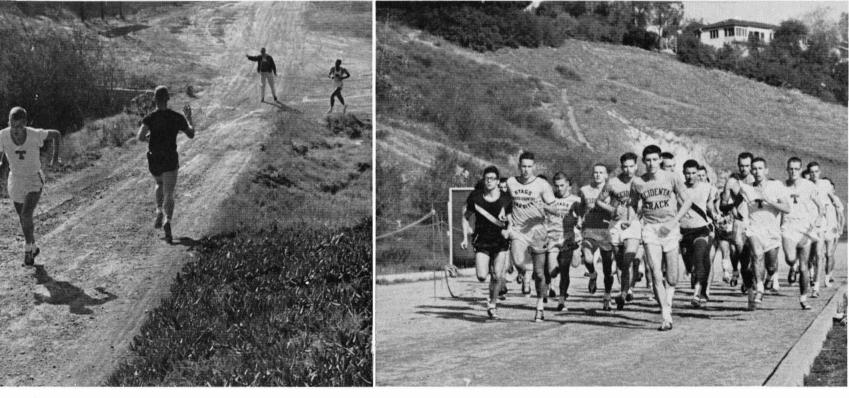
Left to right: Coach Walter Mack, Rich Harris, Art McGarr, Bob Juola, Pat Earley, Norm Reitz, Bill Giaque, Marshall Johnson, Al Whittlesey, Pete Mazur-mgr.

#### 1960 SEASON RECORD

CI	1																								
21				ł		÷				•	÷	Whittier			•	×	•		ł		•	•		•	36
26	).	•					ş		С	10	ar	emont - N	۸u	d	d		•	•	•		•	•	,	•	31
21				•								Pomona	,	×	÷	÷		•	•	,	•			•	42
21			•	÷	•	•		•	•	÷		Redlands			×	•		•							40

For the second straight year, the Caltech cross-country team was undefeated in league dual competition. Although powerful Oxy captured the conference honors, Tech remained tops in the amateur division. Top man for the harriers was sophomore Pat Earley. Second man on the squad was junior captain Richie Harris. With the majority of the 1960 squad returning, prospects are bring for continued success.

Earley's early, but which way's which?

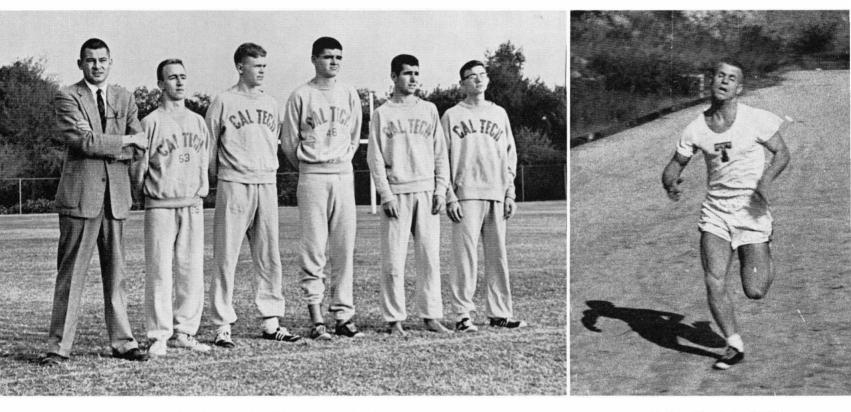


## FROSH CROSS-COUNTRY

#### 1960 SEASON RECORD

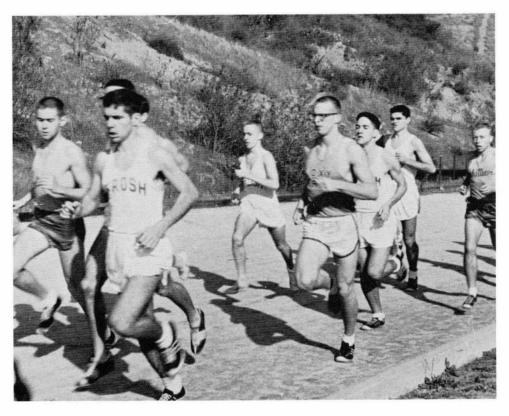
CIT	
33 Whittie	er
19 Pomon	a
20 Claremont -	Mudd
15 Redland	ds

The Caltech frosh harriers had an impressive record: after losing to Whittier in the opener, the team went on to cop the remaining three dual meets. In the conference meet, the Techmen again did well, finishing third to powerful Oxy and Whittier. Top runners were Ed Lee and Captain Larry Weaver, future varsity timber.



Coach Walter Mack, Bob Sorenson, Jim Hole, Dennis Holt, Ed Lee, and Larry Weaver.

McGarr: Where's the finish?



Lee battles for lead as the pack disperses.

## VARSITY SOCCER

The Caltech varsity soccer team had a profitable, if not highly successful, season. Working with nine returning lettermen, Coach Lee Andrews spent most of the season experimenting. All the games were hard-fought and closer than the scores might indicate. The team was characterized by a never-say-die spirit, coming from behind in three of the four games won.

George Argyropoulos, a grad student from Athens, Greece, was voted the "Most Valuable Player Award" and was the only Techman to make the All-League first team. Joel Kwok and Gary Osterberg were elected co-captains. Although these three Beavers were the heart of the team, the entire squad was well-balanced.

Probably the greatest inspiration to the team was jovial Coach Andrews with his perpetual line of wit. Chen boots it home for the score.







1st Row, left to right: Coach Lee Andrews, Joel Kwok, John Russ, Jim Yoh, Bill Dowd, Herb Chen, Dave Osias, Ted Gibbs, John Weaver, George Seielstad, Jerry Davis, Wes Shanks, Kay Sugahara, Joe Young, Gary Osterberg, Catalin Mitescu.

CIT

At left: Sugahara battles for control of the ball.

#### 1960 SEASON RECORD VARSITY

_		-																								
3								•						Biol	a					,		3	•			2
1	•										υ	C		River	sic	de										5
2			•	•		•	•	•				•		UCLA			•	•	•	•					,	6
2			•				•				•	R	Re	edland	sk										,	1
4	,					•				,		1	P	omon	a											3
5										•				Biola			•				•			•		2
1						,					U	C		Rivers	sic	le			•							2
3									•			R	Re	edland	s											6
4				,								1	P	omon	a											2
1														UCLA												4

# J.V. SOCCER

Kwok blocks Uclan's shot.



Although lacking a regular schedule, the junior varsity soccer turned in a very respectable season record under the direction of player-coach Jim Norton. In three games with UCLA, Caltech tied them twice and lost once. The Techmen also played several practice game with the "Senile Seven + Four," an assorted group of faculty members. Because the team was integrated with the varsity squad, it never had a definite line-up. The usual line-up, however, consisted of Weiner, Cheng, Woo, Norton, or Mayer, forwards; Lindsey, Wang, halfbacks; Sagawa or Yoh, fullbacks; and McGehee, goalie. Showing particular promise was frosh goalie McGehee. This year's JV team should provide a valuable reservoir upon which Coach Andrews can draw for next year's varsity.



Left to right: Howard Wang, Jim Yoh, Jim Sagawa, Rich McGehee, John Russ, Jim Norton, and Martin Weiner.

At right: Chen "tackles" large opponent.

#### 1960 SEASON RECORD FROSH

C	I.	L.																				
1		•								•	UCLA			×			•			•	. 1	
3				,							UCLA								,		. 3	3
0			ŧ		•	•		ł	•		UCLA	à	ł					,			. 3	3



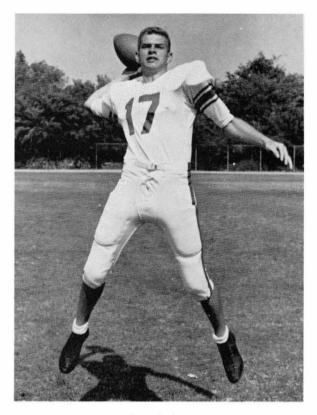
## VARSITY FOOTBALL

For the first time since 1954, Caltech failed to win a football game. It was an inexperienced team (all but two men were juniors or sophomores), lacking in weight and speed. Of the thirty-man squad, twelve were on last year's team, but only five had seen much action. Six others were competing in football for the first time. It was one of the lightest teams to represent Caltech: the regular guards and ends were under 160 pounds with the backfield averaging a little less.

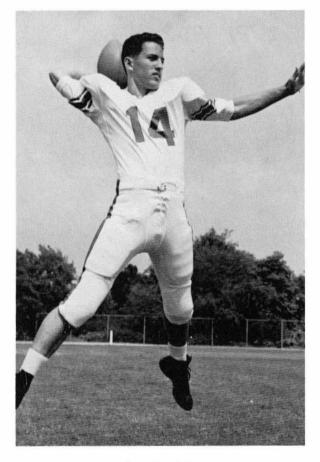
Plagued by injuries, the team ended the season with a record of 0-8 and only 22 players. Francis, Younce, and Evans, who came out late in the season, performed well in filling in some of the vacancies.

Marshall led some brilliant offensive attacks, but only a few culminated in touchdowns. Carder, Herting, Bocklage, Arnold, and Seely made a fine forward wall, but there was little depth. Fullback Cline and halfback Hascall provided some substantial ground yardage.

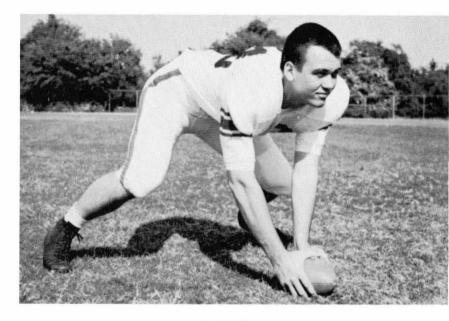
Baum received the Wheaton Trophy. With virtually the entire team returning intact, Coach La Brucherie is optimistic about next fall's prospects. In addition, the deletion of Whittier and Redlands from the 1961 schedule will place the Tech gridders in a better position to compete on their own level.



Dave Barker



Frank Marshall



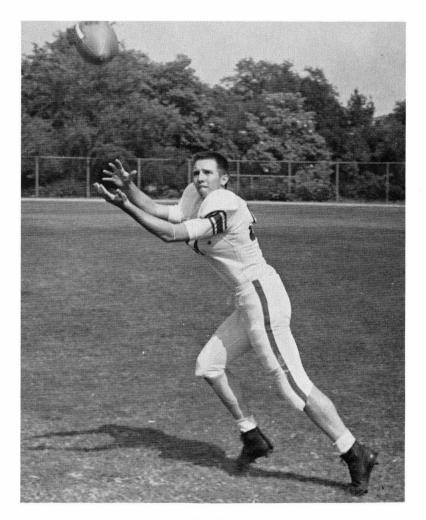
Joe Bocklage

#### 1960 SEASON RECORD

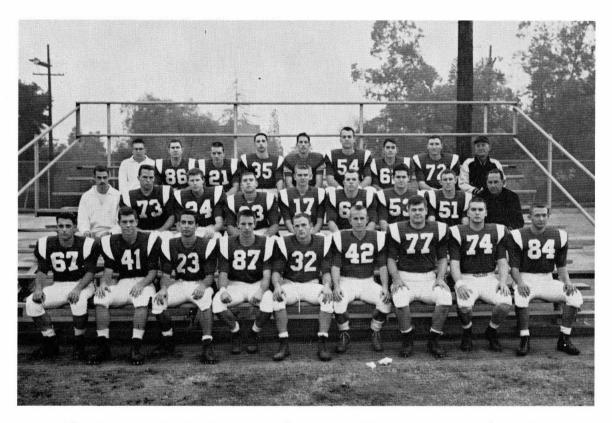
CIT

CII																									
18.	•		•	•	•	•			•	Ri	v	er	si	de						,				. 2	8
ο.	•	•			•					Re	ed	llc	in	ds			•					•		.6	4
0.	,							,		P	01	m	or	na		•								. 3	4
7.									C	al	١	W	es	te	rn		•							.4	ć
12.	,						•			V	Vł	nit	ti	er									,	. 5	6
6.		•		•						Lo	1	Ve	eri	ne				•	•					. 2	2
6.	•	•								Oc	ci	de	en	nta	L	•		•					,	.4	8
23.							С	10	ar	em	10	n	t -	N	٩u	d	d							. 4	7

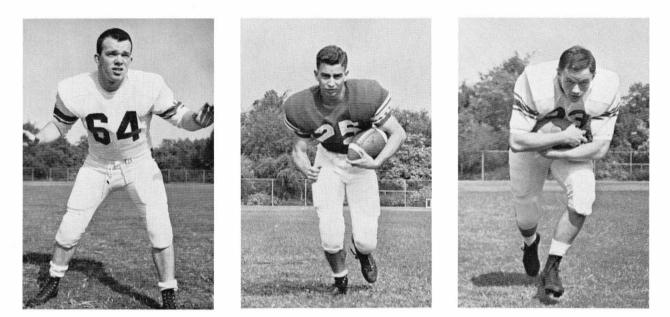
John Arndt, pictured at right in spring practice, is fast becoming a football legend at Caltech. A quarterback's dream of a perfect receiver, John out-manuevered, out-ran, and outfought the opponents defenses to snag 56 aerials for 704 yards and 6 touchdowns during the 1960 season. This record-breaking performance garnered him fourth place among pass-receivers in the National Association of Intercollegiate Athletics small college standings. His sure hands and quick reflexes made him a valuable asset to the team's defensive secondary, and as captain of the squad John was one of the prime inspirational forces on the team. At the end of the season, John was voted to a first-team berth on the SCIAC All-Conference team and was a second-team selection on the District III NAIA all-star team.



John Arndt



1st Row, left to right: Ron Koretz, Ed Miller, Vince Hascall, John Arndt, Ed Cline, Gerry Younce, Carl Baum, Sig Hoverson, Frank Ridolphi. **2nd Row:** Martin Kellogg-mgr., Ross Carder, Ed Evans, Jim Morrow, Dave Barker, Jack Arnold, Rick Foster, Truman Seely, Coach Shelby Calhoun.**3rd Row:** Dave Turner-mgr., Bill Hassenzahl, Dave Grimes, Frank Marshall, Joe Bocklage, Bob Williams, Dave Herting, Coach Bert La Brucherie.



Jack Arnold

Vince Hascall

Ed Cline

## **FROSH FOOTBALL**

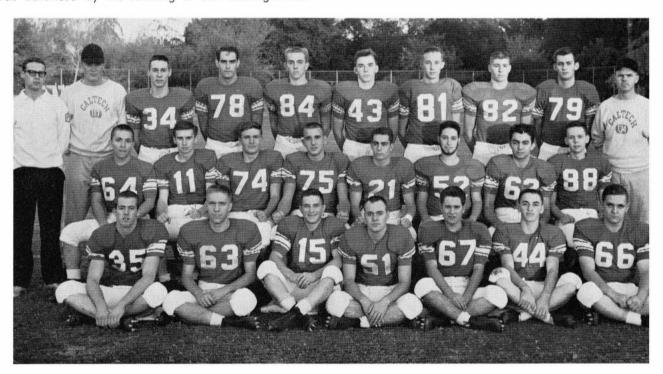
The frosh team this year was characterized by enthusiasm and inexperience. Coaches Jim Young and Larry Long guided the team through a 5-game schedule which, unfortunately, did not include a victory. The frosh played the entire season with an effective squad of about twenty players, over half of whom participated in their first football game in the Oxy opener. Injuries cut into the backfield strength, as did mid-terms.

Outstanding enthusiasm and energy were displayed by the three co-captains: Q.B. Bob Liebermann, engineer of the four touchdowns; Tom DeKlyen, stalwart on the line; and halfback Arden Walters, experienced leader of the pass defense. Inspiring defensive efforts were turned in by DeKlyen, line-backers Chuck "Tiger" Vinsonhaler and Mike Cosgrove, end Tom Krueger, and guard Joe Taynai. Offensively, the pass-catching of Lee Peterson was balanced by the running of Jim Baumgartner.

#### 1960 SEASON RECORD

CIT

0.				4		÷	,	Occidental							.58
6.			,		•	•	•	Pomona .			,			•	.44
8.								Redlands .				,			.56
								Whittier .							
								emont - Mu							



1st Row, left to right: Lee Peterson, Bill Smith, Bob Liebermann, Terry Wogan, Frank Rhame, Mike Cosgrove, Dave Hewitt. 2nd Row: Dick Horning, Art Johnson, Don O'Hara, Chuck Vinsonhaler, Arden Walters, Steve Green, Joe Taynai, Eliot Bradford. 3rd Row: Bill Nicholson-mgr., Coach Larry Long, Jim Baumgartner, Tom DeKlyen, Tom Krueger, Bob McEliece, Thor Hanson, Bill Schoene, Roger Card, Coach Jim Young.

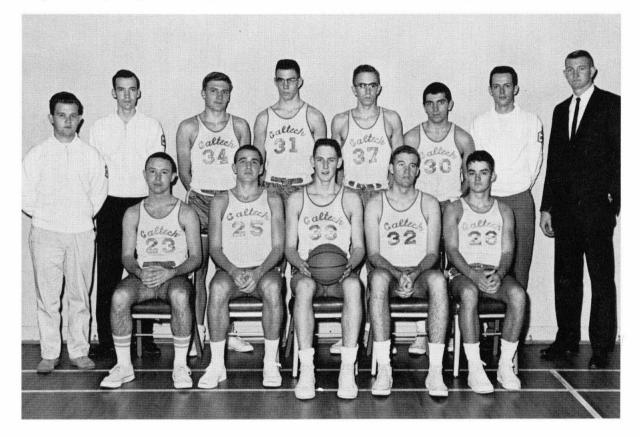
## VARSITY BASKETBALL



1st Row, left to right: Tom Bopp, John Arndt, Bill Ripka, Larry Brown, John Haworth, Roger Noll. 2nd Row: Gerald Chandler-mgr., Ron Gebhardt-mgr., Dean Gerber, Dave Barker, Mike Perlman, Les Tomley, Gerry Clough, Pete Rux, Frank Mathews-mgr., Coach Ed Preisler.



1st Row, left to right: Gary Dahlman, Chuck Vinsonhaler, Dick Burgess, Pat Dunne, Volger Vogt. 2nd Row: Ralph Dawsonmgr., Don Thompson-mgr., Don O'Hara, Leon Thomsen, Joe Weis, Steve Teigland, Dave Low-mgr., Coach Gary Shair.

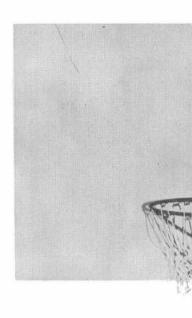


#### 1960 SEASON RECORD VARSITY

CIT

63 Naval Training Center80
51
6761
102 LA Pacific
63 UC Riverside
55 Redlands
6762
49 Orange County State95
79
57
66 La Verne
63
72 UC Riverside
47
42
58 Claremont-Mudd
57
46
52 Redlands
59 Claremont-Mudd

The 1960-61 varsity basketball team finished with an overall record of 8-12, the best for a Tech team in seven years. The keys to the success of the team were the presence of two tall men and Bill Ripka. Tom Bopp and Roger Noll averaged better than 27 points and 22 rebounds per game between them. Captain Ripka, 5'-7" senior guard, was the playmaker and acknowledged floor leader of this year's aggregation. His leadership influence was the cohesive force which molded a group of individuals into a team unit. In addition to Bopp and Noll, the team was well-balanced and could score from the outside as well, as attested by an overall field goal percentage of 40%. Ripka had the best set shot in the league and the other starters—Dean Gerber, Pete Fischer, and Larry Brown-could hit from anywhere in the forward court. A third feature of this year's team was



depth: four substitutes played inter-changeably with the 1st string— John Arndt, Mike Perlman, Gerry Clough, and Dave Barker.

The high point of the season was the victory over Occidental, 79-78, in which Tom Bopp coolly tossed in two free throws in the last ten seconds to culminate a real team victory: five men scored ten or more points.

Although this season's record was mediocre, the prospects for next year are bright, as there were only two senior lettermen and Coach Preisler will have seven returning lettermen as a nucleus for next year's squad.



Gerber shoots over Stag ballerina defense.



"Old Automatic" scores again.



The frosh basketball team had a mediocre 1960-61 season. In exhibition games, they compiled a 3-4 record and in league play, a 2-8 record. The outstanding players on this year's squad were guard Gary Dahlman, center Pat Dunne, and forward Dick Burgess. Dunne and Burgess, each averaging 11 points per game, were the most valuable under the basket. Dahlman, an aggressive team player, was the playmaker of the team and a better-than-average outside shot. Guthrie Miller, a versatile 6'-2" forward, was the team's best rebounder. Chuck Vinsonhaler, a good percentage shooter, added his spark and playmaking ability to an otherwise sluggish team. Steve Teigland, Volker Vogt, Leon Thomsen, Bill Ricks, and Don O'Hara provided important relief to the first-line men.

Noll "stuffs" in two.

Arndt "guns" as Bopp and Perlman maneuver for rebound position.



Gerber: "Drivin' around the corner."

#### 1960 SEASON RECORD FROSH

CIT

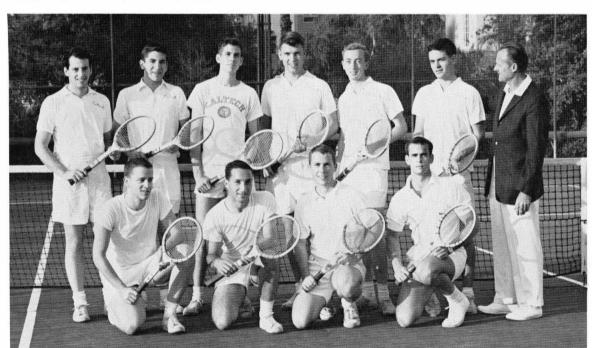
68 LA Trade Tech	l
68 Rio Hondo 58	ł
55 LA Trade Tech	l
43 UC Riverside 61	
46 Redlands 68	
60 Pomona 69	į.
67 Rio Hondo 43	
54 Occidental 63	
38 Whittier 46	•
57 La Verne	
59 Rio Hondo 55	
49 Pomona 48	
65 Claremont-Mudd 56	ŝ
40 Occidental 80	į,
52 Whittier 74	
44 Redlands 49	ġ
57 Claremont-Mudd 63	1

A vicious volley with a new innovation: two balls in play.

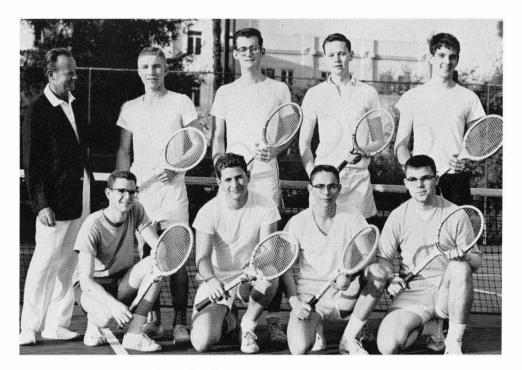
## **TENNIS VARSITY**

For Coach John Lamb and the varsity tennis team, it is quite likely that this will be the best season in years. SCIAC tennis perennially dominated by powerful Redlands, but Tech netmen have high hopes for a second-place finish this year, despite a disappointing early loss to Oxy by a narrow margin.

The outstanding individual player on the team is junior Dick Hess, who won the Scott Tennis Trophy last year. Each man on the squad is pressing to improve his position, and the quality of play is consistently high, so that no one can afford to let down. In the doubles, the teams of Hess and Dave Zimmerman, followed by Frank Curtis and Dave Owen, provide considerable strength. The future looks very bright, since only two of the ten players will graduate this year and half of the returnees are sophomores.



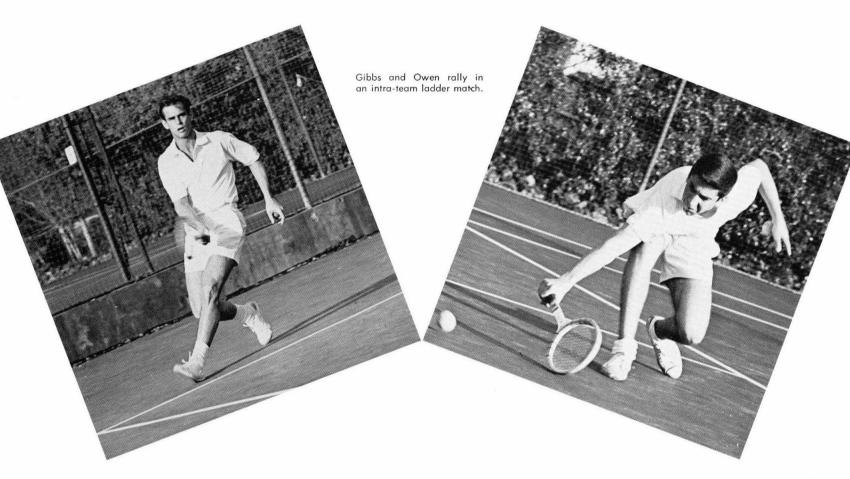
Kneeling: Ted Furr, Ray Plaut, Bob Hearn, Ted Gibbs. Standing: Steve Hechler, Dave Owen, Bob Ruddick, Dick Hess, Dave Zimmerman, Frank Curtis, Coach John Lamb.



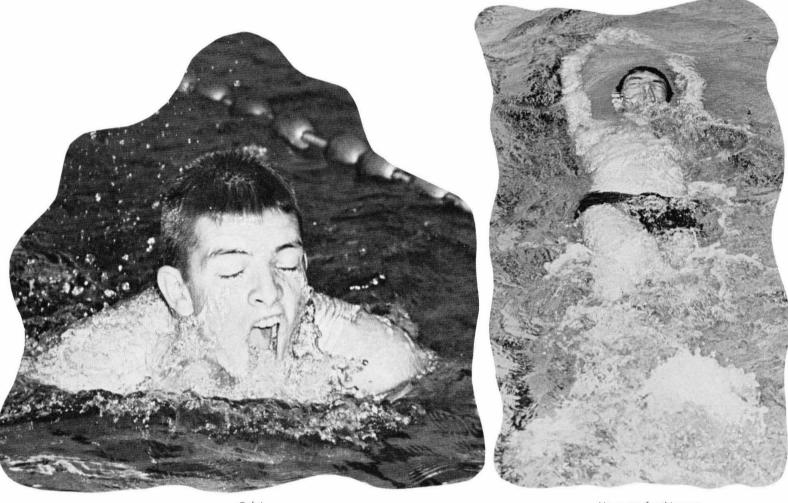
Kneeling: Dave Hammer, Ed Medof, Allan Limpo, Roger Leezer. Standing: Coach John Lamb, Bill Weber, Roger Card, Eliot Bradford, Tom Latham.

## FROSH

This year's frosh tennis squad is strong and should provide considerable help for the varsity next year. In the opening match they missed an upset over Redlands by the narrow score of 5-4. Although the frosh have also lost to an exceptionally strong Claremont-Harvey Mudd team, hopes are still high for a good season. Allan Limpo is the outstanding individual player and joins with Roger Leezer to form a fine first doubles team. Tom Latham, a hard fighter for every point, has done very well in third singles.



## SWIMMING



Gulp!

No sweat for this man.

1st Row, left to right: Pat Manning, John Erskine, Bruce Chesebro, Gary Tibbetts, Roger Bland, Alan Huber, Jim Lindsey, Mike Newton. 2nd Row: Coach Warren Emery, Jim McCoy, Jim Shaw, Gary Turner, Steve Mastins, Dick Zacher, Gary Mitchell, Art McGarr, Joeł Michaelmgr. Seated on ground: Sig Hoverson-mgr., John Smith-mgr.



### VARSITY

Swimming has always been one of Caltech's stronger sports. This year the varsity squad is comprised of upperclassmen from last year's victorious team and a talented group of sophomores. The outstanding performances of Gary Tibbetts, one of the returning conference awardwinners, have been the backbone of the team's distance freestyle. Bruce Chesebro has proved to be very valuable in the sprint freestyle races. In the backstroke, Gary Turner, another All-Conference pick, is expected to bolster the team considerably. Gary Mitchell swims many of the butterfly races. Even though it is working under the handicap of uncertain eligibilities, the team is capable of winning the conference championship.



### FROSH

The frosh swimmers are, as yet, untried, but are expected to make a good showing. Dave Seib has been a big asset to the team. He has made great improvement and has turned in some very promising times in the sprint freestyle races. The rest of the team is working hard, and they make up in spirit what they lack in quantity. Some of these swimmers will start out slowly, owing to a dearth of experience, but should pick up considerably as the season progresses.



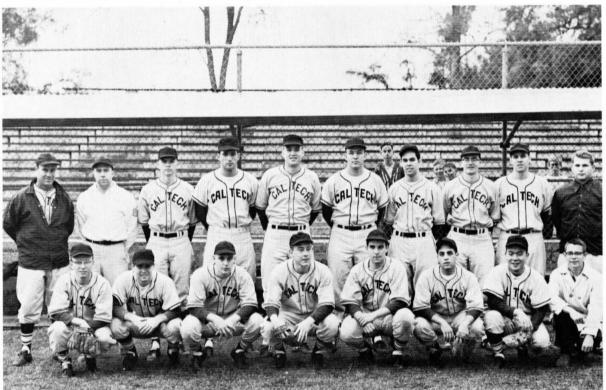
Left to right: Coach Warren Emery, Duygu Demirlioglu, Tom Crocker, Mike McCammon, Elliot Harry, Dave Lambert.

## BASE



Prospects are not too bright for Coach Ed Preisler's baseball team this year. It will be difficult to fill the gaps left by the graduation of three members of last year's All-Conference team. However, several men up from last year's frosh squad show promise, and Bill Palke should step into the empty catcher's position. The team should be led at the plate by Captain Buzz Merrill and Skip Stenbit, the only seniors on the team.

1st Row, left to right: Christ Velline, Jim Morrow, Carlos Johnson, Buzz Merrill, Marty Hoffman, Julian Prince, Jim Sagawa, Reed Barrett-mgr. 2nd Row: Coach Ed Preisler, John Russ-mgr., Dave Barker, Barry Moritz, Joe Bocklage, Skip Stenbit, Bill Palke, Clark Benson, Bob Gilman, Jim Sasser-mgr.





The Caltech frosh are enthusiastically I o o k i ng forward to a better-than-average season this year. Using a few previously seasoned ballplayers as a nucleus, Coach Hunt has hopes of fielding a pretty good ball club. The team seems to have a lot of potential power at the plate and the fielding

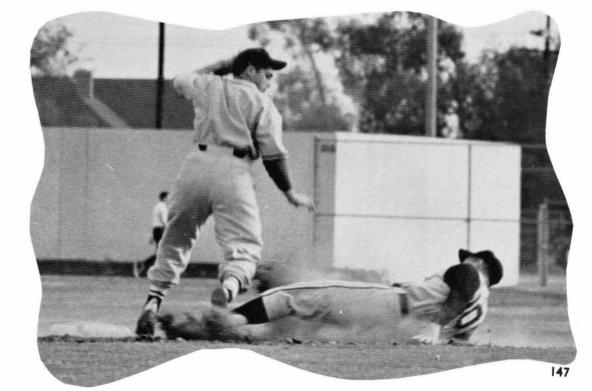
## BALL

Buzz, Marty Hoffman, and Steve Heineman will lead the mound crew. John Arndt and Joe Bocklage, the two remaining lettermen, should see plenty of action at second and third base respectively. All in all it will be a young team with plenty of promise for the future after the players gain a year's experience.

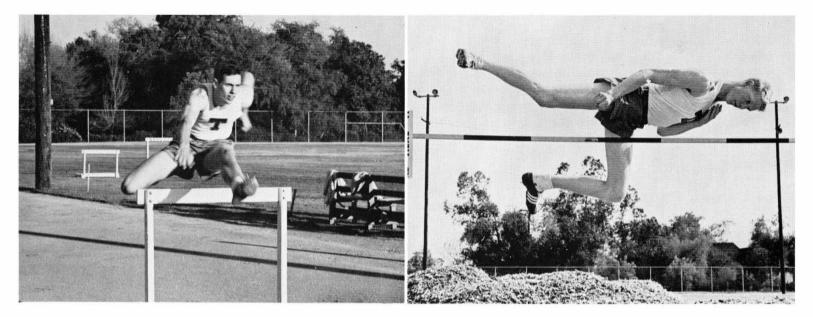


1st Row, left to right: Jim Whittington, Fred Dorr, George Cady, Gary Dahlman, Dave Hewitt. 2nd Row: Coach Tom Hunt, Dick Stanton, Bob McEliece, Tom MacDowell, Bob Leiberman, Bill Ricks.

has already improved to the stage where the players are working together as a team. Pitching, as usual with Tech teams, will be the big problem for the club. Before the season progresses too far, the pitchers should have gained enough experience to be able to lead the team to a successful year.



## TRACK



Curtis: Gliding smoothly over the hurdle course.

Letcher: Up and over.



1st Row, left to right: Jim Williams, Larry Sloss, Bill Hassenzahl, Dick Van Kirk. 2nd Row: Ray Hribar, John Curtis, John Lindsey, John Letcher, Bill Francis, Ben Burke, Herb Rise-mgr.



Faced this year with a stronger league and the loss of several bright prospects, Coach Bert La Brucherie is developing a nucleus of sophomores to support his veterans and improve hopes for 1962. Outstanding among the sophs is John Letcher, who early in the season has cleared 6'-2'' in the high jump. Aram Mekjian throws the javelin well, pressing 190 feet. Will Saam joins senior Tom Kyle in the 440, along with Jan Dash, who also broad jumps.

The veterans are headed by the injury-prone Jim Klett, one of the league's outstanding sprinters. Ben Burke does yeoman work in the 880, running with his improving teammate Bill Hassenzahl. Tech strength in the hurdles centers around Geary Younce in the lows and Frank Curtis in both highs and lows. In the field events, Ed Cline and John Weaver pole vault; Doug Stewart throws the discus and joins Bill Francis in the shot. In the relay Tom Kyle, Will Saam, Jan Dash, and Ben Burke carry the baton. Hopes are not high, but the team has the potential and may pull off a few upsets.



The face of the Caltech track coach is not often

seen in the light of victory but this year Coach

La Brucherie is happily expounding the merits of

frosh George Radke, shot putter and discus hurler,

who in an invitational meet with Southern California

frosh finished second to a man from USC. George

has broken the Tech frosh record in the shot and

Radke: Caltech's own Hercules.

At Right: **1st Row:** Bill Spring, Larry McClellan, Jacques Calma, Jim Baumgartner. **2nd Row:** Al Cosand-mgr., Dennis Holt, Thor Hanson, Hal Petrie, Jim Hole.

discus early in the season.

The spirit of this year's frosh team is high. The performances of the other team members have also been heartening to Coach La Brucherie. This frosh team will be a welcome addition to next season's varsity squad.



Left to right: Coach Warren Simmons, Frank Curtis, Fred Hameetman, Bill Dowd, Gary Ihler, Jerry Siegel, Ken Larson, Dave Siegel, Kay Sugahara.

After a somewhat dubious start, Caltech produced a golf team consisting of two experienced golfers and several duffers. However, under the excellent tutelage of Coach Warren Simmons the team responded rapidly and beat Whittier in a close earlyseason match.

Captain Jerry Siegel recently represented Tech in

the Southern California tournament at Palm Springs and fared well. The team has improved and should do better in future matches. For example, rookieof-the-year Fred Hameetman can now shoot under 60 for nine and should become a threat to the present team members within the next two years.

#### SUPPORT OUR ADVERTISERS

On the next few pages you will find advertisements from the people who are supporting this annual. Over half the money necessary to publish the 1960 BIG T was supplied by these advertisers. You will notice that many of them offer various services to Techmen while others handle the products which everybody needs. It is our advice that you patronize these people when seeking such services and products. You will also notice a number of ads from large companies who are interested in hiring Caltech students. These advertisements provide a good method of becoming better acquainted with the job opportunities and fields of activity of these companies. We suggest that you use the BIG T as a guide when seeking interviews.

The BIG T staff and the entire Caltech student body wish to thank these advertisers for supporting this annual, and hope that they reap the benefits of their ads and will be with us for many years.



## For your best move ...check Douglas

We're looking for engineers and scientists with a bent for big missile and space systems. Lots of the most stimulating work in the world is waiting for you...projects like Saturn, Delta, Zeus, Skybolt, Anip and many others. You'll be involved in research and development assignments that go far beyond the present state of the art, involving planning five, ten and even twenty years into the future.

Scholarships and fellowships are available for continuing your education in universities like Cal Tech, U.C.L.A. and others. We also provide an outstanding program of employee benefits.

We have a particular need right now for electronics and chemical engineers, physicists and mathematicians. All qualified applicants will receive consideration for employment without regard to race, creed, color or national origin.

For complete information, please send your resume to Mr. C. C. LaVene, Box 601-D, Douglas Aircraft Company, Inc., Santa Monica, California.

# DOUGLAS





## "The Greatest Name in Dairy Products"

# Carnation Company



GROCERY COMPANY 824 E. California PASADENA



BASIC BUILDING MATERIALS 1650 SOUTH ALAMEDA STREET LOS ANGELES 54, CALIFORNIA

LEONARD W. ROSS '27, Vice-President







## aerojet engines make it MOVE

Aerojet's leadership in propulsion adds an arsenal of ready rocket power to our nation's defense.

Ablestar Aerobee Astrobee Atlas-Able Blue Scout Bomarc Bullpup Dyna-Soar Eagle Genie Hawk Minuteman Polaris Scout Skybolt Sparrow Tartar Thor-Able Titan XM-59

## **GROWING WITH** WESTERN INDUSTRY SINCE 1849-

For 112 years Ducommun has served as a key supplier of materials to Western Industry.

Today, as we enter the space age, we are looking ahead to requirements of our customers who produce such equipment-just as we looked ahead to the requirements of the miner, the engineer and the early settler in 1849. We continue to meet every demand on our products and facilities

STAINLESS, ALLOY AND CARBON STEELS ALUMINUM · BRASS AND COPPER TOOLS. ABRASIVES . INDUSTRIAL SUPPLIES



San Diego, Calif., (National City), 1300 Wilson Ave., GRidley 7-3141 Seattle, Wash., 120 Dawson St., PArkway 5-1500 Phoenix, Arizona, 301 S. Twenty-sixth St., BRidge 5-4471 Tucson, EAst 6-2839 San Francisco, Calif., 975 Bryant St., HEmlock 1-6900

Seattle, Wash., 2709 Utah Ave., MAin 3-6730

FOUNTAIN

SNACK BAR +

> CAFETERIA \*

OPEN 7:00 TO 4:00

### CHANDLER DINING HALL

ON THE CAMPUS

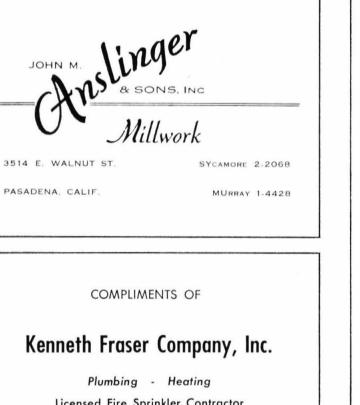
### Barnett, Hopen, Smith, and Salit

**Civil Engineers and Land Surveyors** 

... ... ...

35 South Raymond Avenue Pasadena, California SY 5-0458 - MU 1-0606

Harold A. Barnett '23



Licensed Fire Sprinkler Contractor

MUrray 1-7168	707 S. ARROYO PRWY.
SYcamore 2-4167	PASADENA 1, CALIF.



### Pioneering in Space Research...

The Jet Propulsion Laboratory has been assigned responsibility for the Nation's program of unmanned lunar, planetary, and interplanetary exploration. The objectives of this program are to contribute to mankind's fundamental knowledge of space and the space environment and to contribute to the development of the technology of space exploration. For the next ten years, as larger booster vehicles become available, spacecraft with ever-increasing scientific instrument payloads will be developed.

The Jet Propulsion Laboratory will conduct the missions, utilizing these spacecraft to orbit and land on the moon, to probe interplanetary space, and to orbit and land on the near and far planets.

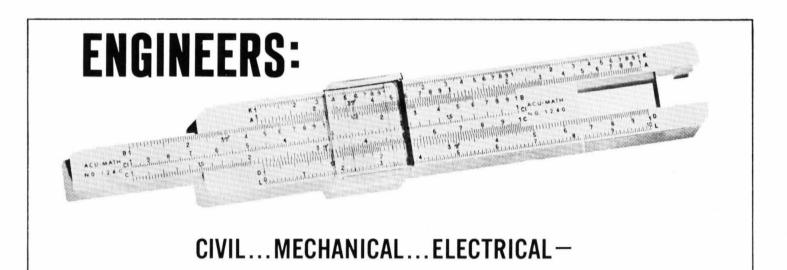


RANGER

SPACECRAFT ANTENNA

PATTERN TEST AT JPL

Employment opportunities for Engineers and Scientists interested in basic and applied research in these fields: COMMUNICATIONS • INSTRUMENTATION • INFRARED • ASTROPHYSICS • GEOPHYSICS GEOCHEMISTRY • ASTRONOMY • PROPULSION • MASER • STRUCTURES • PHYSICS Send professional resume, with full qualifications and experience, for our immediate consideration



Edison offers you both challenge and opportunity in the all-electric future.

If you want a career with challenge, we at Edison would like to talk to you.

We'd like to explain our role in the expanding economy of Southern California. Today, Edison serves nearly five million people. In ten years it is estimated that approximately seven million will be served.

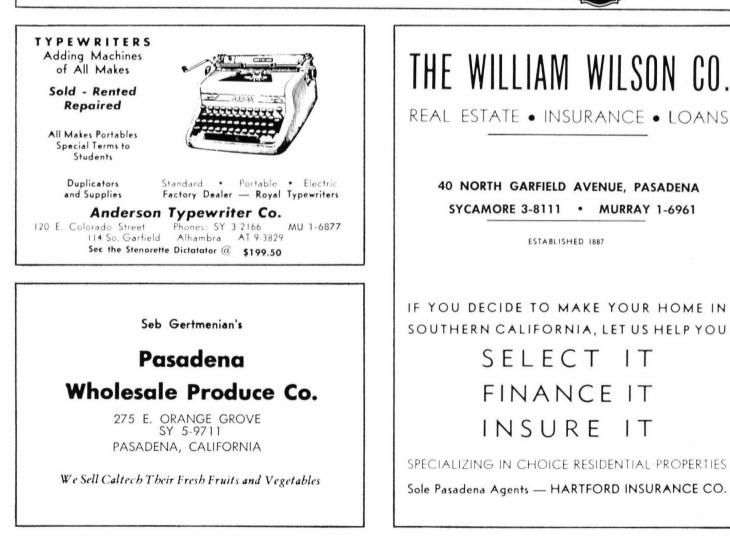
And we'd like to explain how you can fit into this allelectric future. Unlimited opportunities exist for creative engineers as the demands for electricity continue to grow. To meet these growing demands new and more efficient engineering, construction and operating methods must be developed.

You'll find opportunity at Edison. Because at Edison, you link *your* future with the all-electric future.

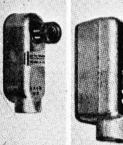
For full details, write or call:

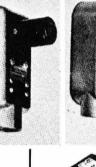
Mr. C. T. Malloy Southern California Edison Company P. O. Box 351 • MAdison 4-7111 Los Angeles 53, California

SOUTHERN CALIFORNIA Gdues COMPANY



### POWER TRANSMISSION AT ITS FINESTR





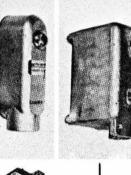


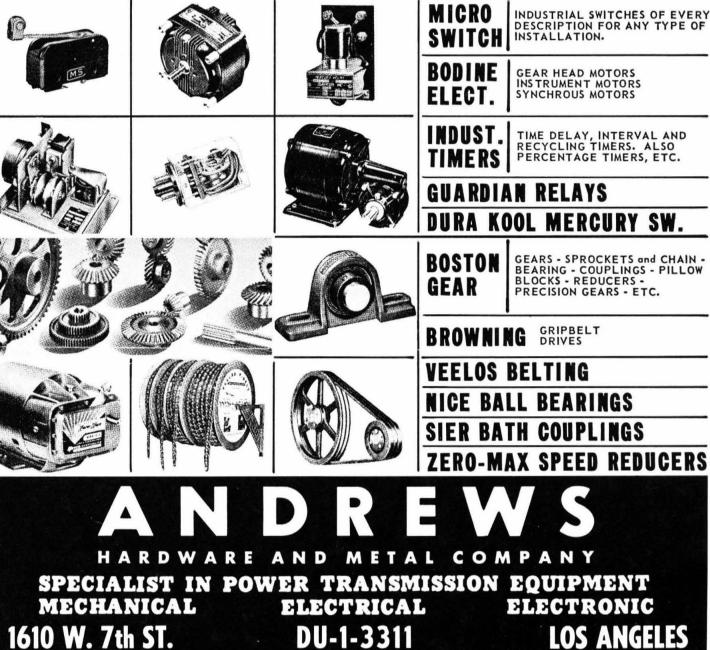


PHOTO ELECTRIC -

ELECTRONIC EQUIPMENT

AUTOMATION HIGH-SPEED - BATCH - INDICATORS COUNTERS CONVEYOR - JAM-UP ILLUMINATION START-STOP **DIE PROTECTION** SAFETY

SMOKE DETECTION TIME DELAY BURGLAR--FIRE ALARMS SPECIAL APPLICATIONS



### SCIENTISTS and ENGINEERS Pitzer & Warwick CEC, located in the San Gabriel Mountain foot-Clothes for Lad and Dad hills north-east of the Cal Tech campus, offers 321 E. Colorado Street professional challenges to the Cal Tech graduate who has directed his career toward research and development in the advanced field of electronic instrumentation. **Our 51st Year** CEC's analytical and control, data processing, magnetic-tape, dynamic recording, and pressure 1910 1961 and vibration instruments and systems are widely used to advance the position of companies in the industrial field; to pioneer research in colleges and universities; and to help secure this nation's advantages in the military and space programs. We would appreciate the opportunity of discussing with YOU any phase of our technical effort CERTIFIED that may be of interest to YOU. CONCRETE Address your inquiry to ----READY MIXED. WILLIAM PECKHAM Compliments of Assistant Personnel Manager CONSOLIDATED ELECTRODYNAMICS E. LOCKETT & SON CORPORATION BUILDING MATERIALS Subsidiary of Bell & Howell Company 552 South Raymond Ave. 360 Sierra Madre Villa, Pasadena, Calif. Pasadena I, Calif. SYcamore 6-9381 LEE & DANIEL STRUCTURAL STEEL 1465 E. WALNUT SYcamore 6-8153 PASADENA Unexcelled LAUNDERING and CLEANING by any standard of comparison HYDRAULIC OIL WELL PUMPING SYSTEMS the Roua SYcamore 6-431 The engineered solution to an industry-old problem KOBE, INC. 3040 East Slauson Avenue ndry & Cleaning Pla

Huntington Park, California





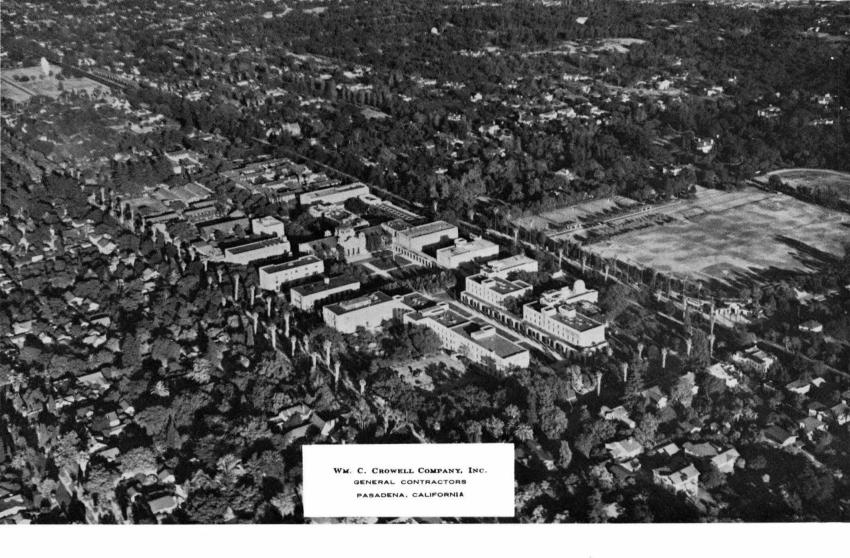
BEHRENDT-LEVY IN	SURANCE AGENCY
ESTABLISHE	ED 1902
325 West 8th Street   Los An	ngeles 14 • MAdison 2-1261
CROWN SURGICAL SUPPLY (Division Edward Weck and Co.) LABORATORY MEDICAL HOSPITAL EQUIPMENT AND SUPPLIES SY 5-0611 MUrray 1-7780 1070 E. Green St.	COMPLIMENTS OF <b>J. A. CRUIKSHANK</b> <b>&amp; SON</b> <b>JANITOR SUPPLIES</b> GI. 8-8571 CU. 3-6736 <b>216 N. Meeker Avenue, El Monte</b>
Sid Side Fisher's Coriginally Fisher's Coriginally FOOD FINE FOOD S589 East Colorado Street A Tech Favorite Since 1947 Open 6:30 A.M. to 12:00 P.M. 7 days a week	GEDDES PRESS Printers WE OFFER A COMPLETE PRINTING SERVICE LETTER PRESS -:- OFFSET little t publisher SY. 5-9955 MU. 1-7264 975 East Green Street — Pasadena

# RAY GERHART

SYcamore 2-2468

231 So. Pasadena Ave.

Pasadena 2, Calif.





The

### **CHEF'S BROILER**

OPEN 24 HOURS

luncheon 75c

dinners from 96c - \$1.50

Special sizzling U.S. choice top Sirloin steak - \$2.25 635 East Colorado SY 2-9111

## CALTECH PHARMACY

PRESCRIPTIONS

Courtesy • Service • Satisfaction MOTOR DELIVERY Member Pasadena Merchants Association

CATERING ICE CREAM

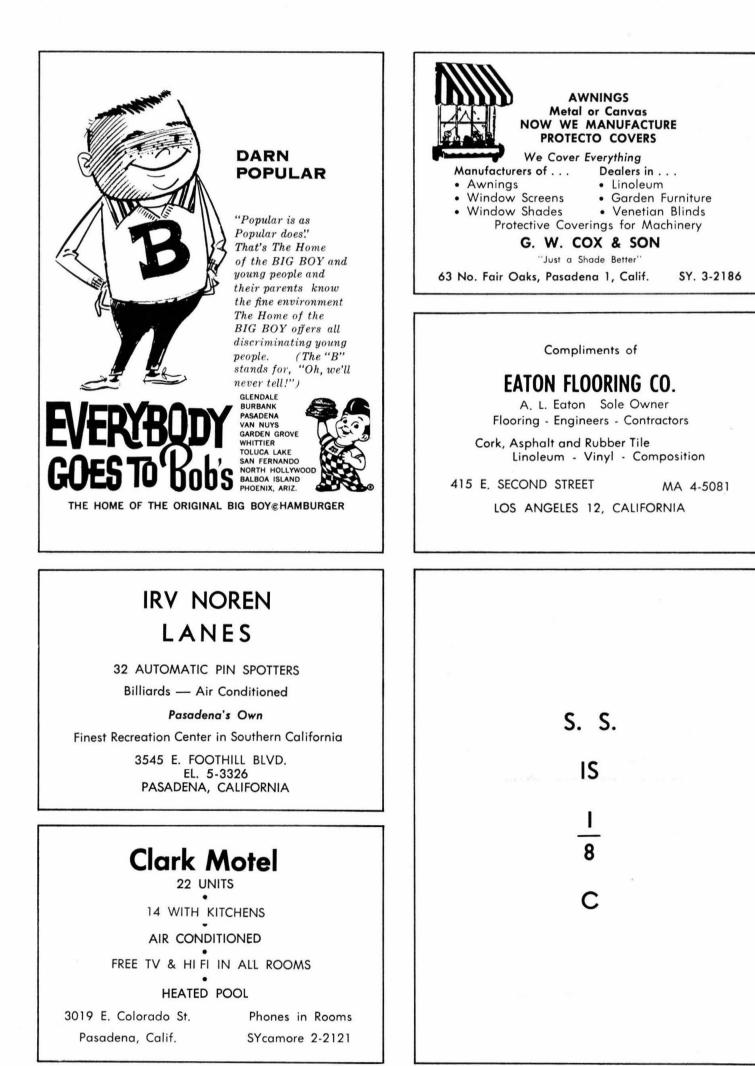
Prescriptions Called for and Delivered

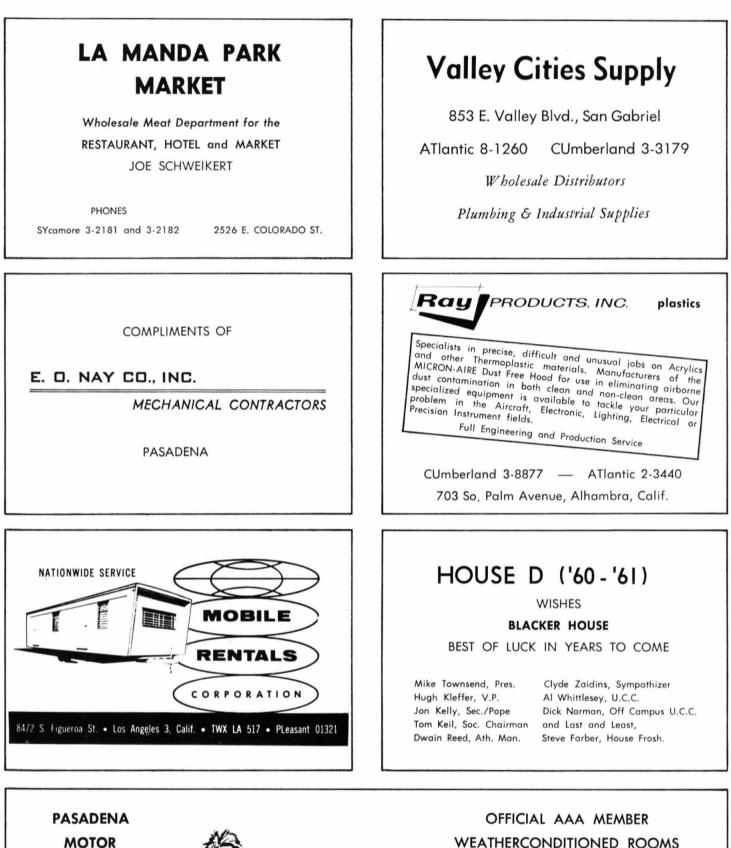
882 E. CALIFORNIA STREET (S.E. corner California and Lake) PASADENA, CALIFORNIA

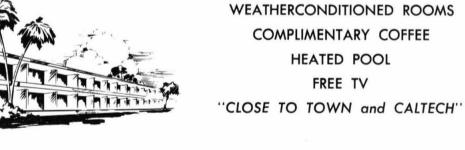
Phone SYcamore 2-2101

Ask for Caltech Vitamins and Caltech Wheat Germ Cereal









2131 E. Colorado - Pasadena - SY 6-3121

Н

0

T

L



In the matter of career opportunities, your attention is respectfully directed to positions now open at Beckman Instruments, Inc. in the following fields:

RESEARCH

ENGINEERING

**TECHNICAL MARKETING** 

Your inquiry is invited. Address : Technical Employment 2500 Harbor Boulevard, Fullerton, California

### Beckman

Electronic components, instruments, systems... for analysis, measurement and control.

Phone SYcamore 3-8183



Compliments of

H. B. Hubbard Electric Co., Inc. ELECTRICAL CONTRACTORS

30 East Del Mar, Pasadena, Calif.

Air Conditioning

Refrigeration

### WESTERN AIR

& REFRIGERATION, INC.

1819 GLENDALE BLVD. NOrmandy 3-1103 LOS ANGELES

Automatic Fire Sprinklers Air Conditioning Ventilating Heating Plumbing Contractors

### **MUNGER & MUNGER**

A Corporation - Established 1890

AUSTIN MUNGER

174 East Union Street, Pasadena, California SYcamore 6-2661 - MUrray 1-6537

## EMETT & CHANDLER

**INSURANCE BROKERS and AVERAGE ADJUSTERS** 

Industrial & Commercial

2999 West Sixth Street, Los Angeles 5

Telephone DU 1-1201









THE

### FLEMING WAITERS' UNION

cordially invites you to

EAT IT FASTER!





## **Advertiser's Index**

Aerojet-General
Almquist Brothers
Alvins Camera Shop
Anderson Typewriter Co
Andrews Hdwe. & Metals Co
John M. Anslinger & Sons154
Applied Physics Corp
Barnett, Hopen, Smith & Salit154
Beckman Instruments, Inc
Henery N. Beets Co
Behrendt-Levy Insurance Co
Blue Diamond Co
Bob's Restaurants
C & H Sales159
California Rexall Pharmacy165
Caltech Bookstore
Caltech Pharmacy
Carnation Company152
Chandler Dining Hall154
Chef's Broiler
Clark Motel
Consolidated Electrodynamics Corp158
G. W. Cox & Son
Wm. C. Crowell Co
Crown Surgical Supply
J. A. Cruikshank & Co
Dedricks
Dino's
Douglas Aircraft Co., Inc
Ducommon Metals & Supply154
Eaton Flooring
Emmett & Chandler166
Kenneth Fraser, Inc
Fleming Waiter's Union167
Geddes Press

Ray Gerhart Co.	160
The Harwood Co.	167
Sid Haupt's	160
H. B. Hubbard Co.	166
The Independent Star-News	152
Jet Propulsion Laboratory	155
Johnson Motors, Inc.	159
Jurgensen's Grocery Co.	152
Kobe Incorporated	158
Kloke's	161
La Manda Park Market	164
Lamb Funeral Home	166
Lee & Daniel	158
E. Lockett & Son	161
Mirror Bright Polish Co.	154
Mobile Rentals Corp	164
Mock Printing	162
Munger & Munger	144
0	
E. O. Nay Co.	
	164
E. O. Nay Co.	164 163
E. O. Nay Co. Irv Noren's Lanes Inc.	164 163 159
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners	164 163 159 164
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel	164 163 159 164 156
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce	164 163 159 164 156 158
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick	164 163 159 164 156 158 164
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick Ray Products	164 159 154 156 158 164 158
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick Ray Products Royal Laundry	164 159 154 156 158 164 158 159
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick Ray Products Royal Laundry S. K. Smith Co.	164 159 154 156 158 158 158 159 156
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick Ray Products Royal Laundry S. K. Smith Co. Southern California Edison Co.	164 159 154 156 158 164 158 159 156 165
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick Ray Products Royal Laundry S. K. Smith Co. Southern California Edison Co. Suds Kissed Laundromat	164 159 159 156 158 158 158 159 155 165 162
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick Ray Products Royal Laundry S. K. Smith Co. Southern California Edison Co. Suds Kissed Laundromat Turner & Stevens	164 159 154 156 158 158 158 159 155 165 162 164
E. O. Nay Co. Irv Noren's Lanes Inc. Oak Knoll Cleaners Pasadena Motor Hotel Pasadena Wholesale Produce Pitzer & Warwick Ray Products Royal Laundry S. K. Smith Co. Southern California Edison Co. Suds Kissed Laundromat Turner & Stevens Valley Cities Supply	164 159 154 156 158 158 158 158 159 156 165 162 164 166