

big  
T

nineteen hundred

fifty six



The California Institute  
of Technology

HUMANITIES  
LIBRARY

"Caltech"  
ABOUT CALTECH  
MORE THAN FACTS"

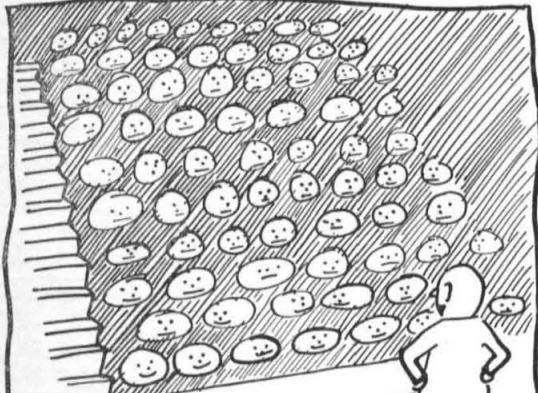


"EVERY YEAR ABOUT 200 NEW  
CALTECH STUDENTS ARRIVE AT A  
CAMP ABOUT 90 MILES EAST OF  
PASADENA....."

"SOME OF THE TIME AT CAMP GOES  
INTO TALK, WITH  
FRESHMEN SITTING  
IN CIRCLES



"WHILE ONE OF THE FACULTY MEMBERS  
OR UPPERCLASSMEN TRIES TO EXPLAIN  
CALTECH."



"DUE TO CALTECH'S LIMITED  
ENROLLMENT, BIG CLASSES  
ARE USUALLY ABOUT 20 STUDENTS."

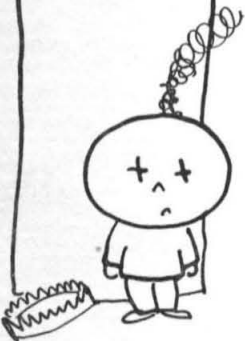
"THE ATHLETIC PROGRAM  
GETS STARTED IN  
OCTOBER, TOO. FOOTBALL  
SOCCER, TENNIS, CROSS-  
COUNTRY, WATER POLO  
AND EVEN BOWLING  
HAVE FRESHMAN  
PARTICIPANTS."



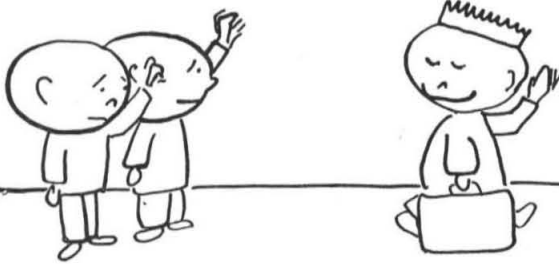
"SOCIAL LIFE  
AS WELL AS  
ATHLETICS  
STARTS FIRST  
TERM. DATES  
ARE PROVIDED  
FOR ANY FROSH  
NOT YET UP TO  
GETTING THEIR OWN."



"THEN COME  
FIRST TERM  
FINALS!"



"IN THE SECOND TERM THERE ARE  
NO NEWCOMERS ANY MORE."



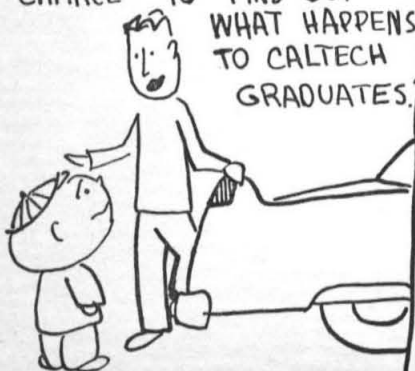
"THE SKI CLUB  
HAS A HUT IN THE  
MOUNTAINS THAT  
IS NEVER EMPTY ON A WEEK-  
END THAT SEES SNOW ON THE  
GROUND."



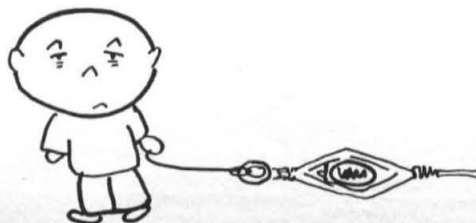
"SECOND  
TERM  
LIFE IS  
DAMPENED



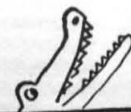
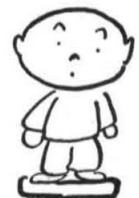
"ON ALUMNI SEMINAR DAY  
STUDENTS GET A  
CHANCE TO FIND OUT  
WHAT HAPPENS  
TO CALTECH  
GRADUATES."



"BUT MOST OF ALL, THIRD TERM  
IS A TIME OF AWARDS AND  
DECISIONS. IN MAY, ASCIT PASSES  
OUT HONOR KEYS TO THOSE WHO  
HAVE CONTRIBUTED MOST TO STUDENTS  
LIFE AS A WHOLE."



"AND IT IS IN MAY THAT  
FRESHMEN HAVE TO DECIDE  
WHICH WAY TO JUMP  
ACADEMICALLY."

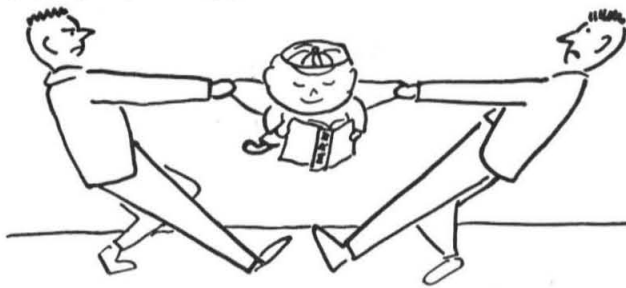




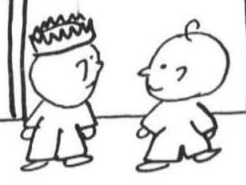
"THERE ARE ALSO DISSERTATIONS ON HOW HARD EVERYONE IS GOING TO WORK, BUT CALTECH'S 'STUDENT MORTALITY' RATE IS EXTREMELY LOW, SO THAT THERE IS A GOOD POSSIBILITY THAT HARD WORK WILL LEAD TO A DEGREE."



"WITH STUDENT CAMP OVER, THE FIRST OF THREE TERMS BEGINS IN ERNEST."

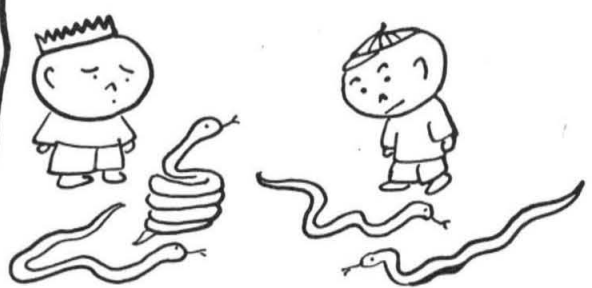


THROOP  
(PRONOUNCED TROOP)

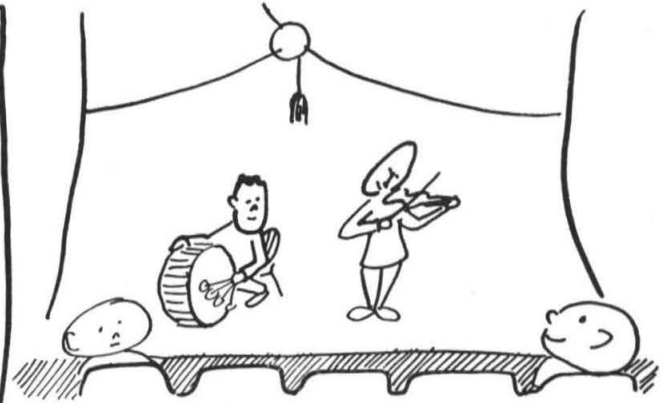


"WHILE SOME FRESHMEN ARE PICKING HOUSES, AND BEING PICKED BY THE HOUSES, THOSE WHO LIVE OFF-CAMPUS GET TOGETHER AT ...."

THEN THERE IS THE INTERHOUSE DANCE, USUALLY THE MOST ELABORATE OF THE YEAR."



"ALL THIS ATHLETIC AND SOCIAL STIR DOES NOT MEAN THAT NO ONE STUDIES. AS A MATTER OF FACT, ONE OR TWO EXAMPLES OF THE PURELY STUDIOUS TYPE WILL HAVE APPEARED BY NOW."

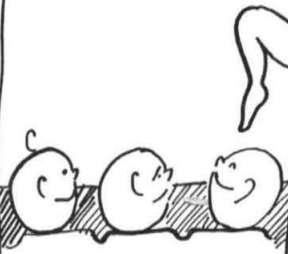


"AS FIRST TERM DRAWS TO A CLOSE IN DECEMBER, THE ORCHESTRA USUALLY FEELS UP TO GIVING A CONCERT."

TERM SOCIAL NOT MUCH BY THE RAIN."



"IN FEBRUARY COME ASCIT ELECTIONS."



"AFTER ASCIT ELECTIONS, THE INTERHOUSE BOWLING CONTEST COMES TO AN END."



"IN APRIL, WITH THIRD TERM UNDER WAY, THE SKIERS FIND IT NECESSARY TO DODGE BARE SPOTS ....."



"AND THE NUMBER OF PEOPLE AT THE BEACHES PICKS UP."



"THE YEAR ENDS WITH THE EXCITEMENT OF COMMENCEMENT."



"A ROUND OF DANCES, DINNERS, PARTIES, AND FINAL EXAMS SENDS THE SENIOR OFF TO THE BUSINESS OF EARNING A LIVING ....."

..... AND UNDERCLASSMEN OFF TO SUMMER VACATIONS."



*nineteen hundred fifty-six . . .*

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*the big t*





***to the techman . . .***

At the inception of the idea which was to become known as Caltech, Robert A. Millikan had in mind an institution which would keep the highest standards both in the sciences and in the humanities. Much credit has been given to the scientific and engineering accomplishments of the school and of its graduates, while little note has generally been made of the social and cultural interests of the students. For this reason this annual is dedicated to the well-rounded Techman.









## ***staff***

Editor-in-Chief ..... Don Nierlich  
Assistant Editor ..... Dick Kirk  
Photography Editor ..... Jon Robinson  
Art Editor ..... Chuck Bodeen  
Seniors Editor ..... Arne Kalm  
Sports Editors ..... Jim Mebust and Bob Walsh  
Activities ..... Ray Orbach  
Business Managers ..... Bob Chambers and Walt Petersen

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Campus, Stu Bowen.

Seniors Staff: Frank Albini, Mike Duke, Jay Kimmel, John Kleiderer, Joe  
Lingerfelt, Herb Rauch.

Sports Staff: Brent Banta, Norris Huse, Dick Van Kirk.

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Pasadena, California



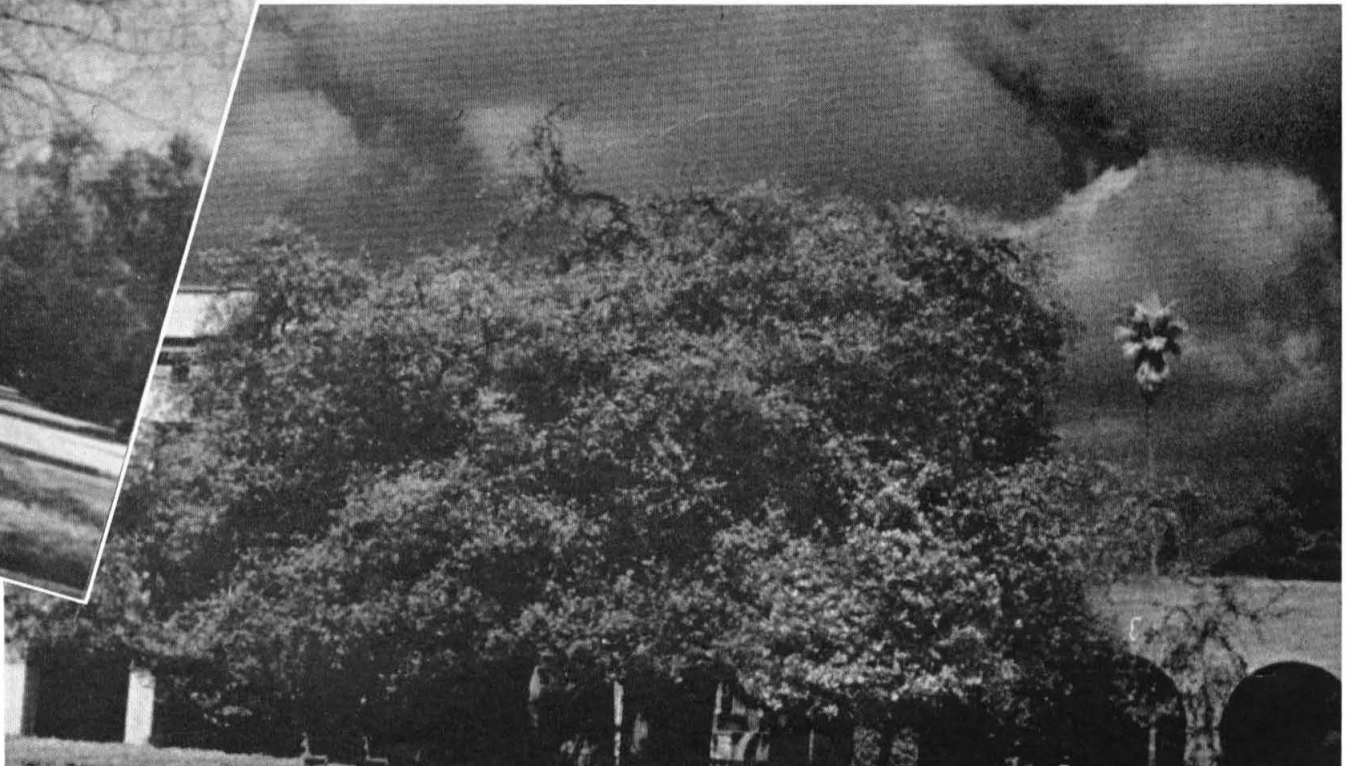
## *credits*

Besides the regular members of the **Big T** staff a myriad of people pitched in to help during those last-minute dashes before the deadlines. Special thanks goes to Dabney House's Alley Seven, the people who lived too close to me to get out of helping, especially Bernie Lopez, Don Meyer and Harper Whitehouse.

Thanks also to Ed Hutchings, Editor of **Engineering and Science**, and Austin Studios who did the portraits for this book.

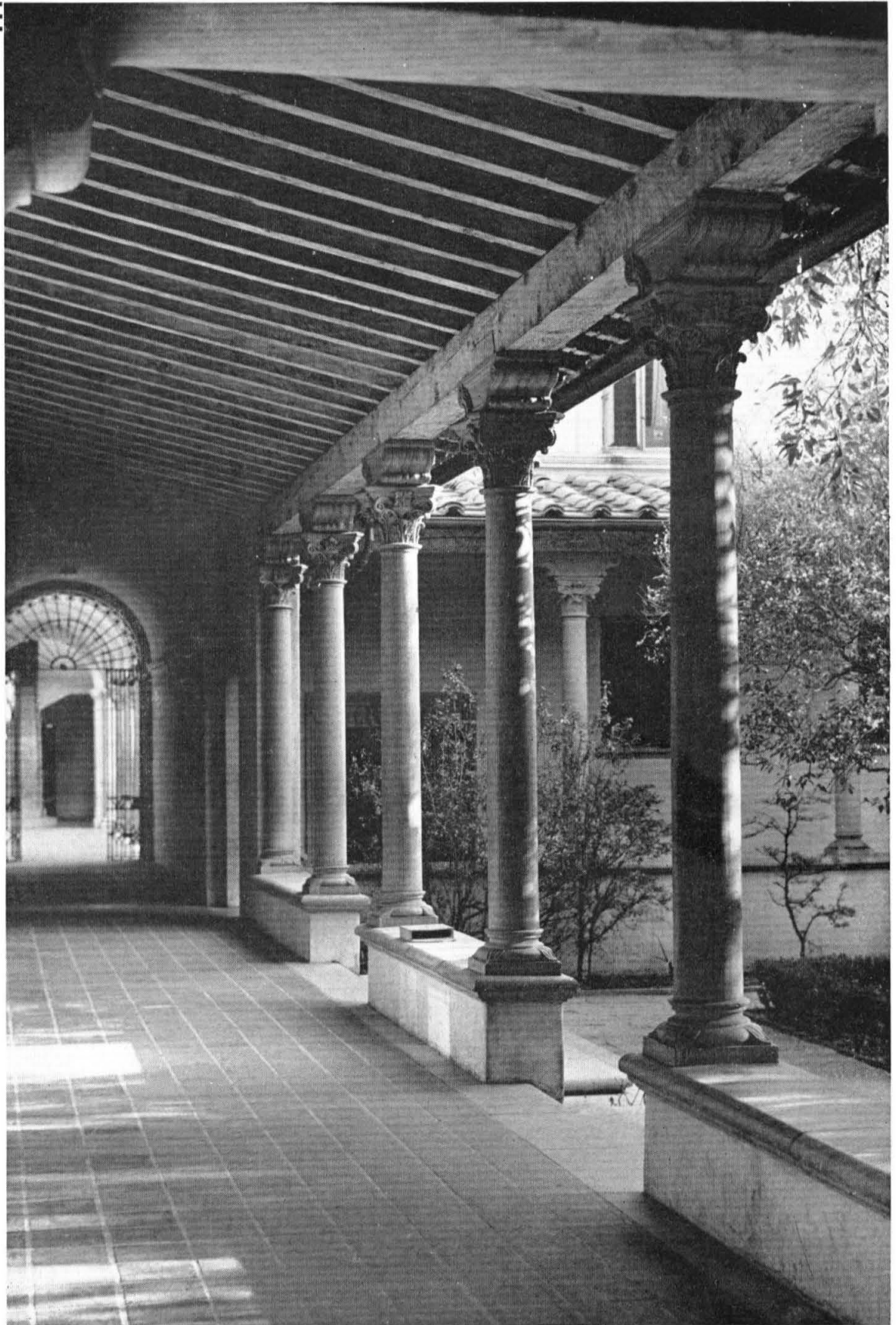
And finally my most sincere thanks to Bob Ozias of Lederer, Street and Zeus, the printers, and Bob Moon of California Art and Engraving, the engravers, for the tremendous help they have given.

*Don Nierlich*











*in memoriam*

JACOB CHAKIN

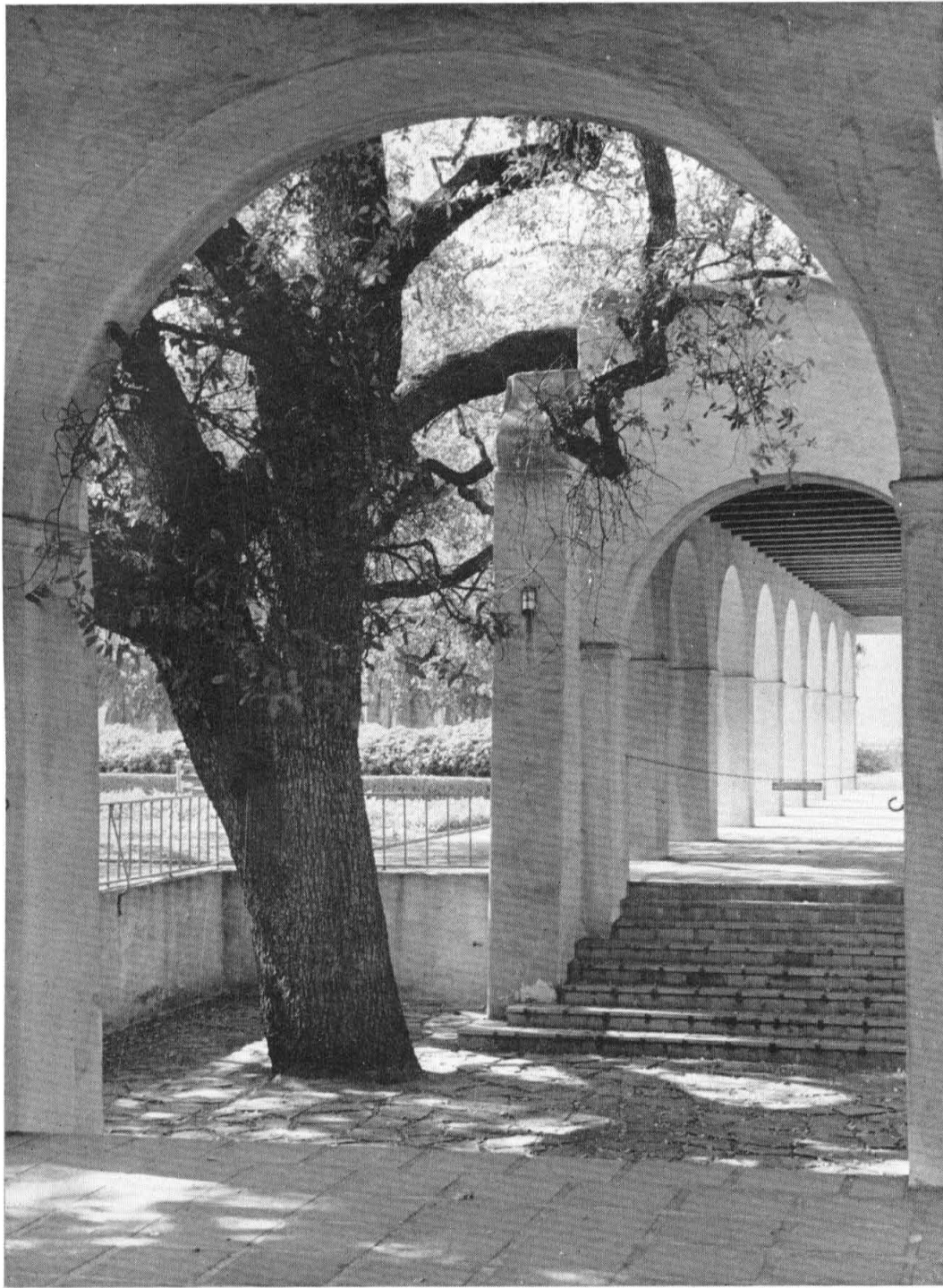
CLINTON JUDY

HARVEY MUDD

ALBERT EINSTEIN

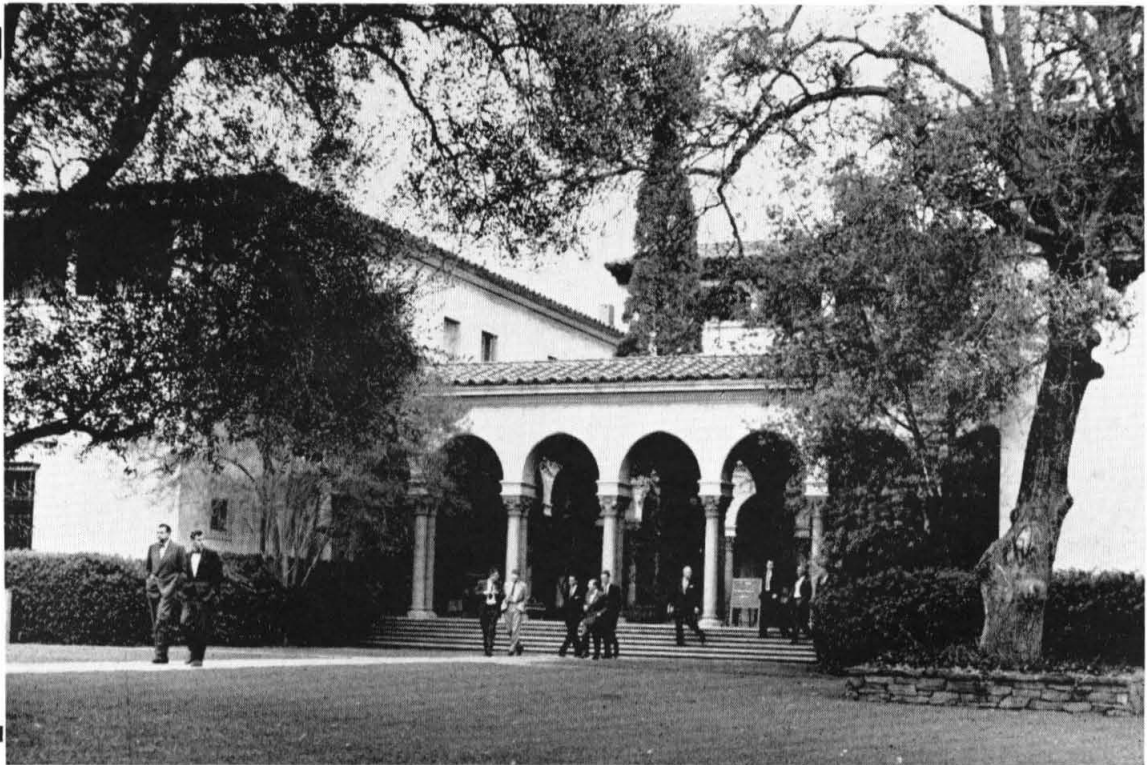




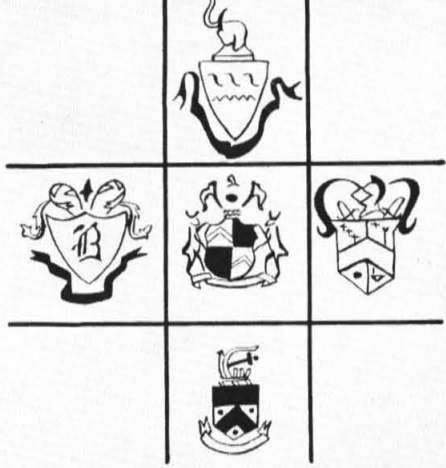




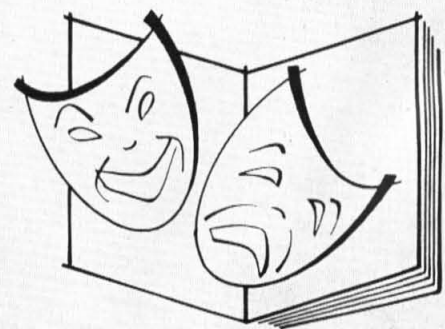
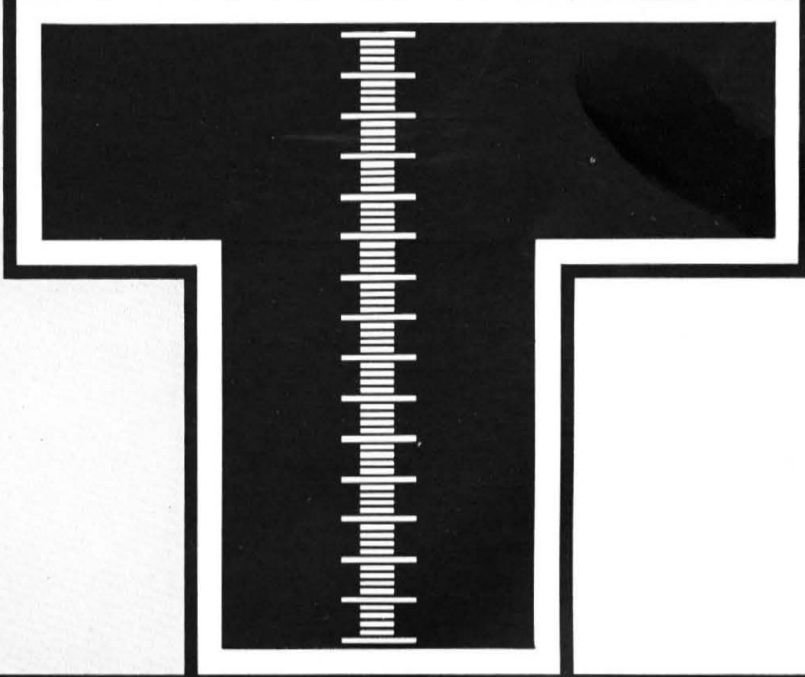
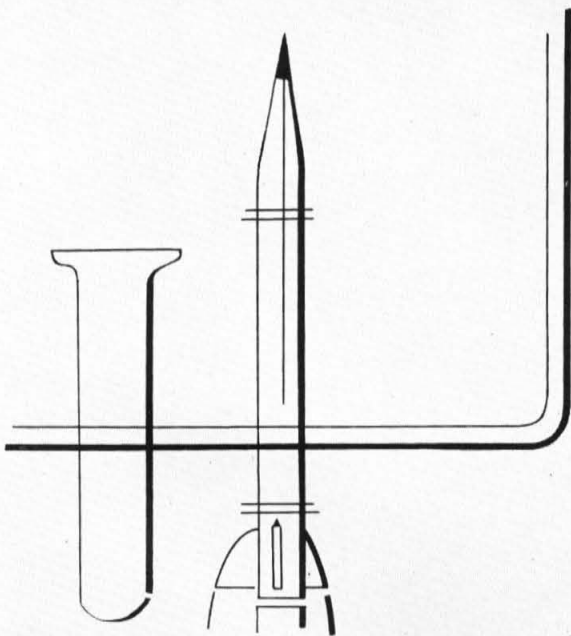


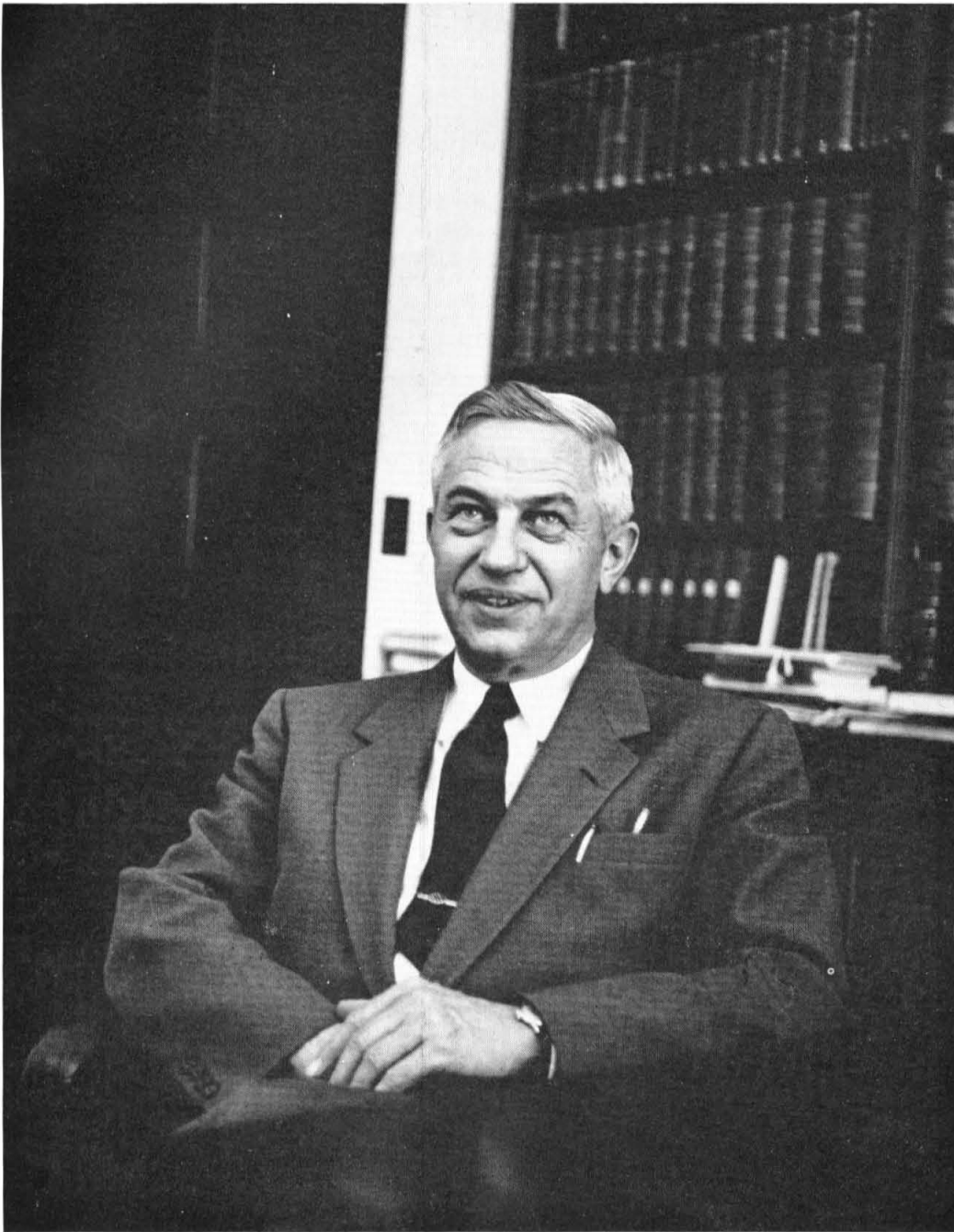






*faculty*





Dr. Lee A. DuBridge  
President  
California Institute of Technology

## *president's message . . .*

It is abundantly clear that the tools provided by science, technology and industry constitute the major factor in enabling the American people to reach the national ideals they have always sought: freedom, justice, the right to life, liberty and the pursuit of happiness.

But it is also clear that these goals are not attained automatically. Advances in technology make freedom from want possible but do not insure that this goal is attained. New industrial products may assist in the pursuit of happiness but they do not, in themselves, achieve it.

Human ideals are attained not solely by things, but by men. What kinds of men? Naturally, we require men of ability, men of character, of determination, of integrity. But these men must also possess understanding—understanding of the goals we seek to reach and understanding of the tools which are needed in the process. Neither the stupid moralist nor the ignorant mechanic can fill our needs. The leaders in the struggle for a better world must be high-minded men whose talents have been sharpened by an education which is both broad and deep. Especially important will be the thoroughly educated scientists and engineers, for only they can appreciate fully the technological basis of modern civilization and how its material products can be used to attain a higher level of human welfare.

L. A. DuBridge  
President



# *deans*



Winchester Jones  
Dean of Admissions



Foster Strong  
Dean of Freshmen



William Lacey  
Dean of Graduate Studies



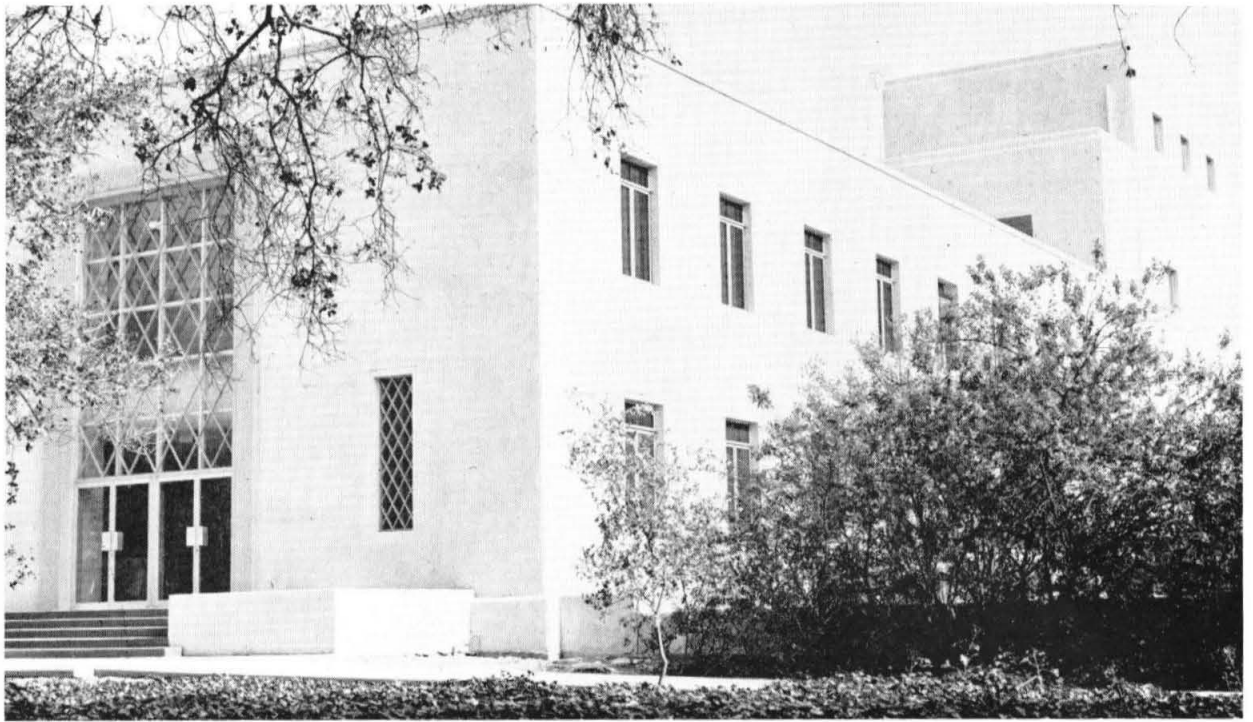
Paul Eaton  
Dean of Students



Ernest Watson  
Dean of Faculty



Francis Maxstadt  
Registrar



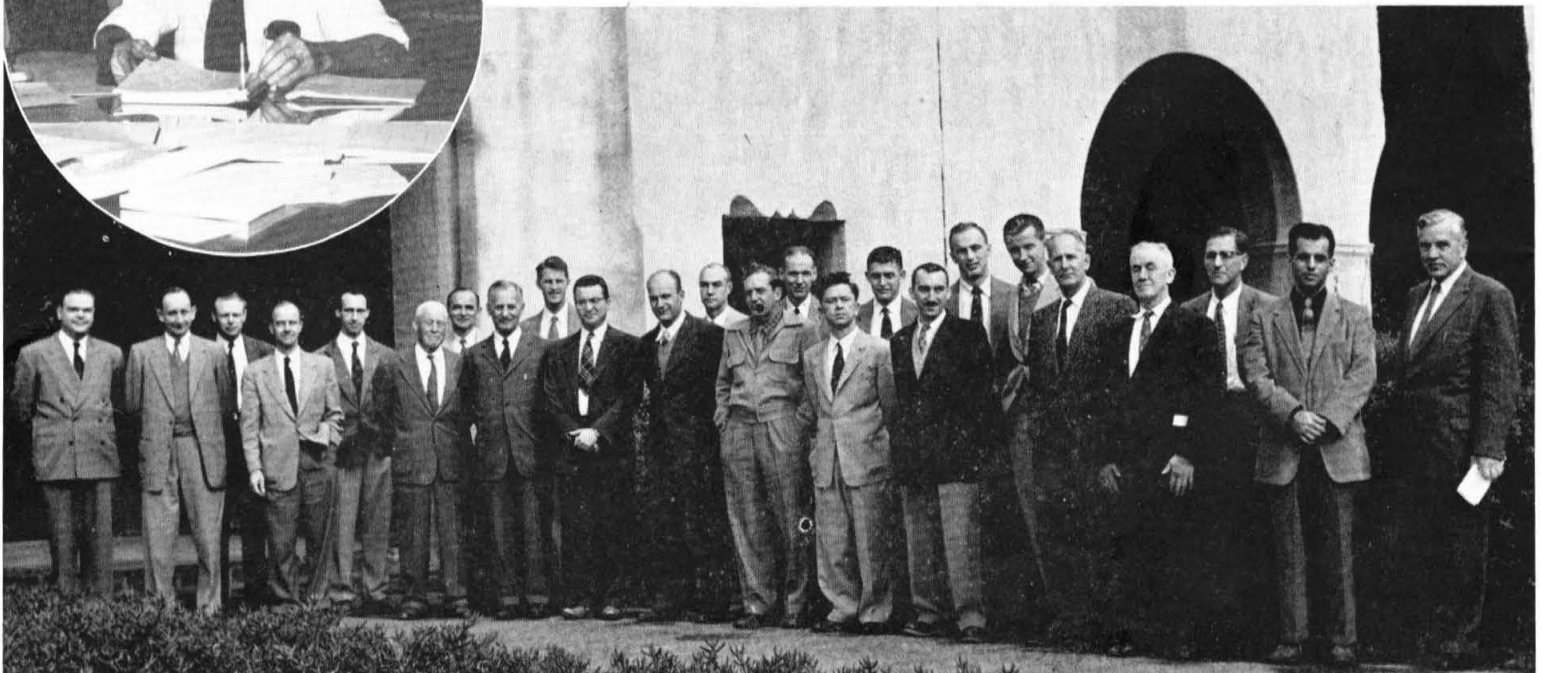
The new Norman W. Church Laboratory of Chemical Biology.

## *biology*



George Beadle  
Chairman of the  
Department of Biology

LEFT TO RIGHT: Henry Klostergaard, Albert Tyler, Anthonie Van Harreveld, Goeffrey Keighley, Walter McNutt, Charles Bradley, Cornelus Wiersma, Henry Borsook, Hugh Forrest, Norman Horowitz, Jacob Dubnoff, Roger Sperry, Ray Owen, Herschel Mitchell, Edward Lewis, David Stadler, Giuseppe Bertani, Harry Rubin, Max Delbreck, George Beadle, Albert Longley, Arie Haagen-Smit, Robert Latees, Fritz Went.







FIRST ROW, left to right: A. Christomanos, Linus Pauling, Carl Niemann. SECOND ROW: Howard Lucas, Herbert Rhinesmith, Dan Campbell, Kenneth Hedberg. THIRD ROW: Gunnar Bergman, Edward Hughes, L. Zechmeister. FOURTH ROW: John D. Roberts, Walter Schroeder, Robert Corey, Oliver Wulf, Lynne Merritt, Richard Badger.

# *chemistry*



Linus Pauling  
Chairman of the Division of Chemistry



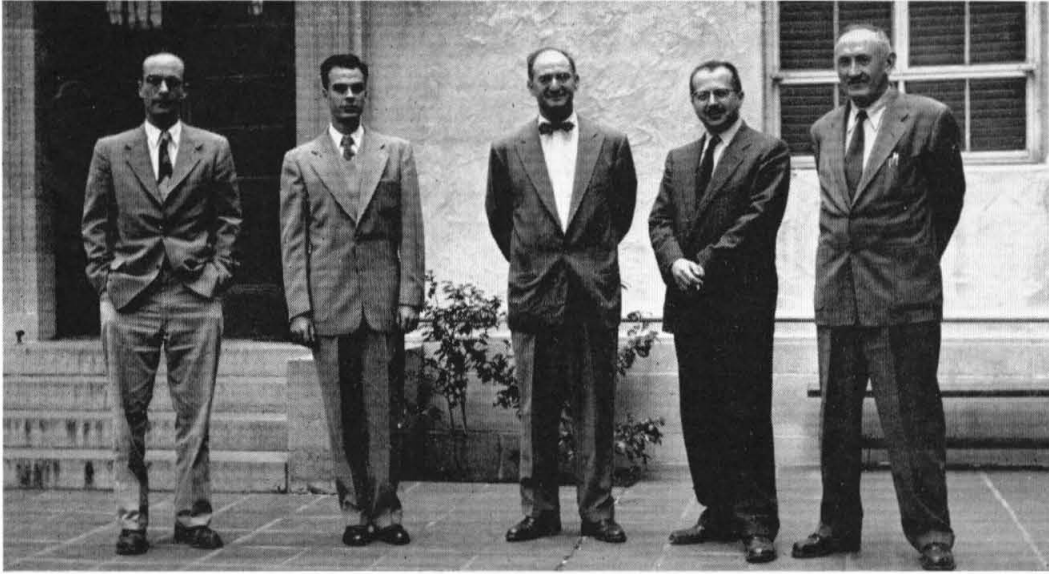
Dr. Robert Sharp  
Chairman of the Division of Geology

# *geology*



LEFT TO RIGHT: Heniz Lowenstam, Frank Stehli, Gerald Wasserburg, Ian Campbell, Clarence Allen, Beno Gutenberg, Charles Richter, A. E. J. Engel, Robert Sharp, Hugo Benioff, Leon Silver, Lloyd Pray, C. Hewitt Dix, Frank Press, Samuel Epstein, Charles McKinney, Richard H. Jahns.





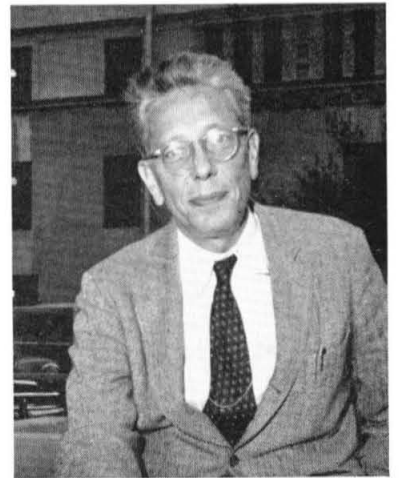
LEFT TO RIGHT: Donald Osterbrock, Guido Munch, Leo Goldberg, Jesse Greenstein, Fritz Zwicky.



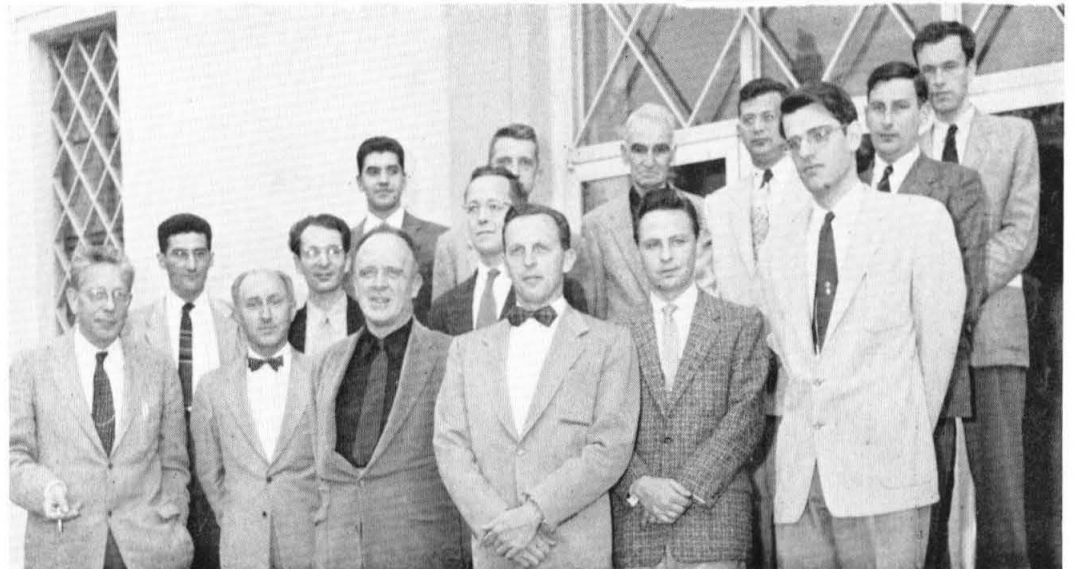
Jesse L. Greenstein  
Chairman of the Department of Astronomy

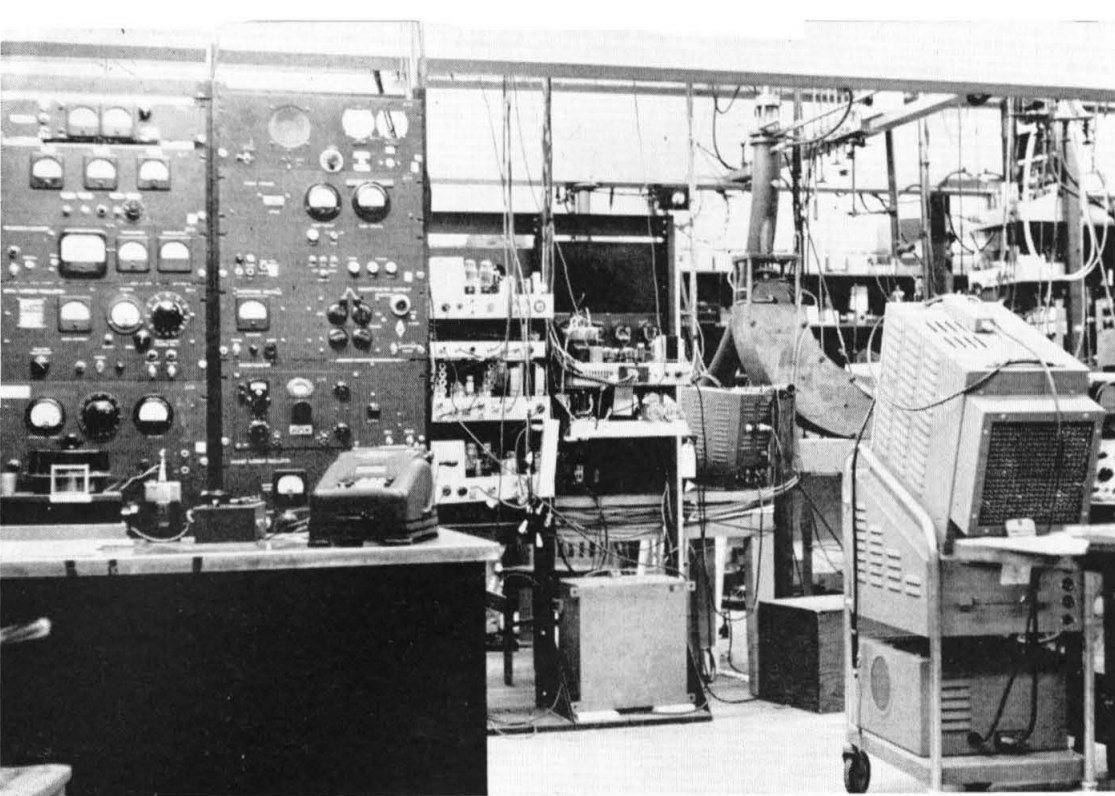
# *astronomy*

Dr. Frederic Bohnenblust  
Chairman of the Department of Mathematics



# *mathematics*

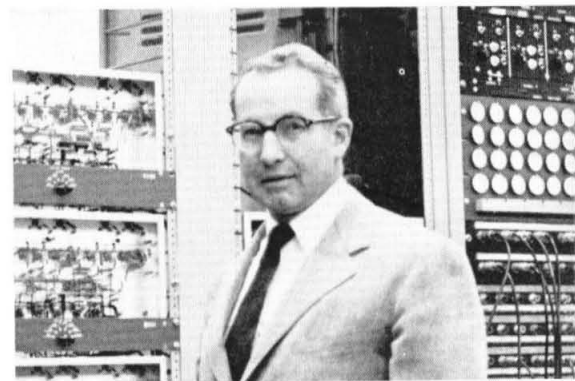




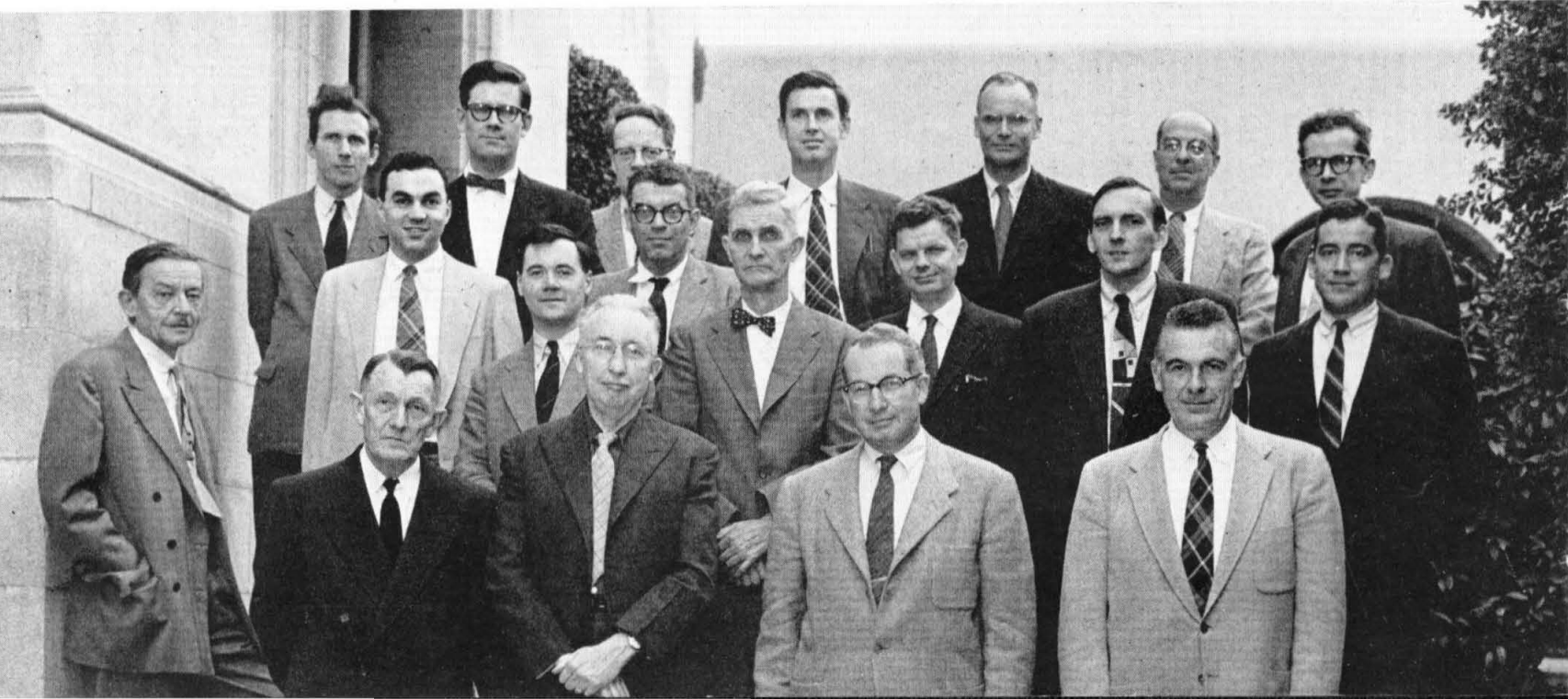
Here the effects of high energy protons on various targets are studied. The protons are accelerated by the Van de Graaff generators on the floor above and brought into this room through the large tubes in the ceiling.

# *physics*

Robert Bacher  
Chairman of the Division of Physics



FIRST ROW, left to right: C. C. Lauritsen, Jesse DuMond, Robert Bacher, John Pellam. SECOND ROW: Alexander Goetz, Michael Cohen, John Polkinghorne, Robert Langmuir, William Smythe, Tom Lauritsen, Matthew Sands, Ward Whaling. THIRD ROW: Arthur Clegg, John Teem, Leverett Davis, Jr., Robert Christy, Robert King, Foster Strong, Felix Boehm.

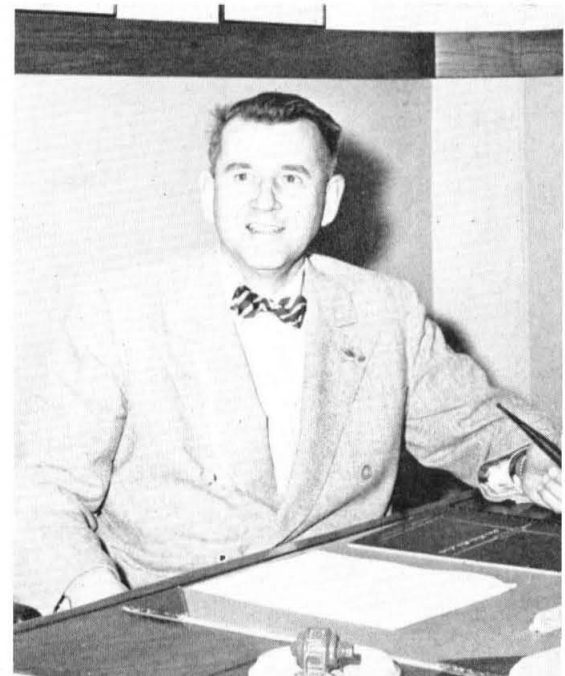




LEFT TO RIGHT: Francis Maxstadt, R. David Middlebrook, Royal Sorenson, Gilbert McCann, Charles Wilts, Robert Langmuir, Lester Fields, Charles Papas, Robert Macmillan, Hardy Martel, Zohrab Kaprielian, Ray Gould.

## *electrical engineering*

Dr. Frederick Lindvall  
Chairman of the Division of Engineering







LEFT TO RIGHT: Thad Vreeland, Donald Hudson, Frank Marble, David Wood, Donald Clark, Pol Duwez, Robert Knapp, David Welch, Howell Tyson, Vito Vanoni, Rolf Sabersky, Dino Morelli, Francis Buffington, Allan Acosta, Duncan Rannie.

## *mechanical engineering*

LEFT TO RIGHT: Nathaniel Wilcox, Howell Tyson, David Welsh.



## *graphics*



SEATED, left to right: Jack McKee, William Michael, George Housner, Romeo Martel, Vito Vanoni. STANDING: Frederick Converse, Alfred Ingersoll, Norman Brooks, Calab McCormick.

*civil engineering*

*applied mechanics*

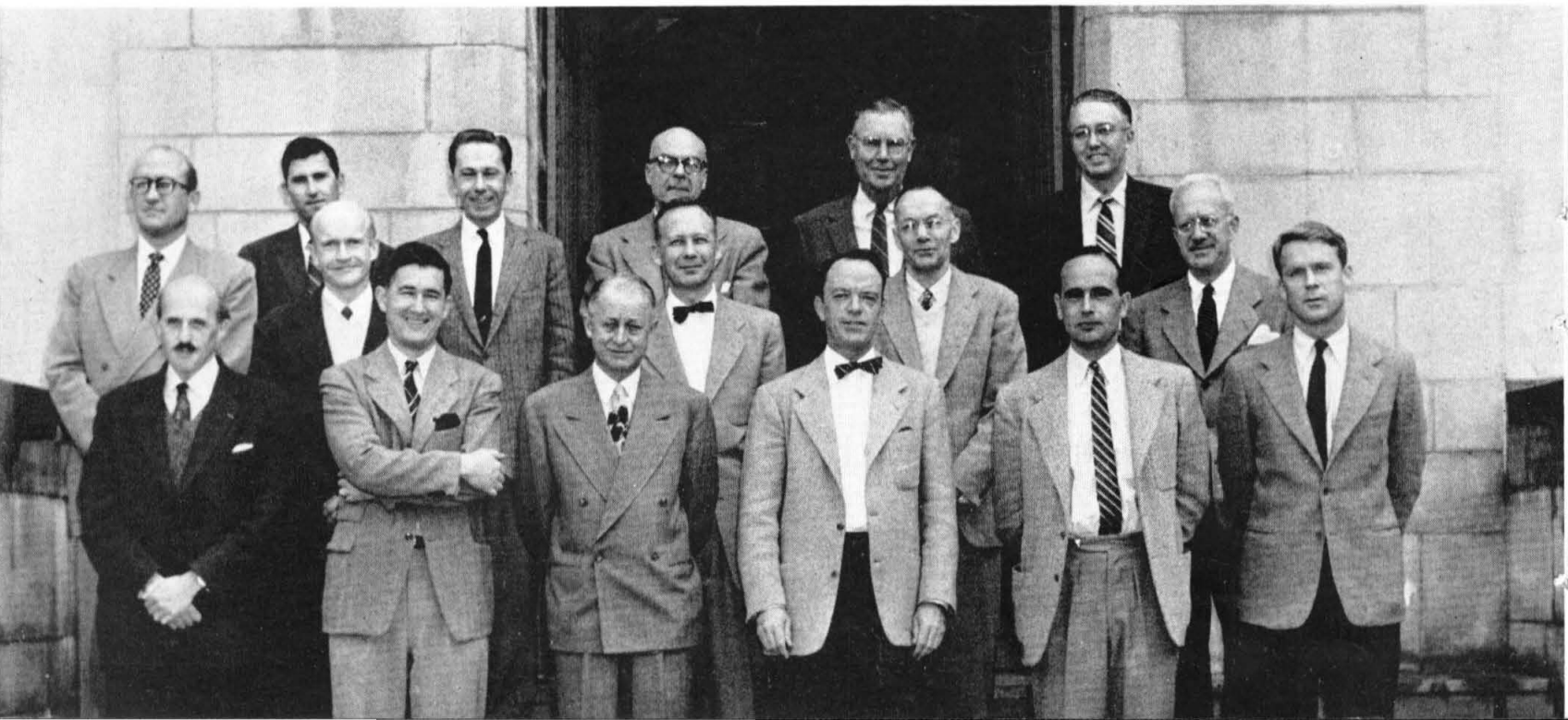
SEATED, left to right: Harold Wayland, Harold Lurie, Charles DePrima. STANDING: Julius Miklowitz, George Housner, Thomas Caughey, Ted Wu.



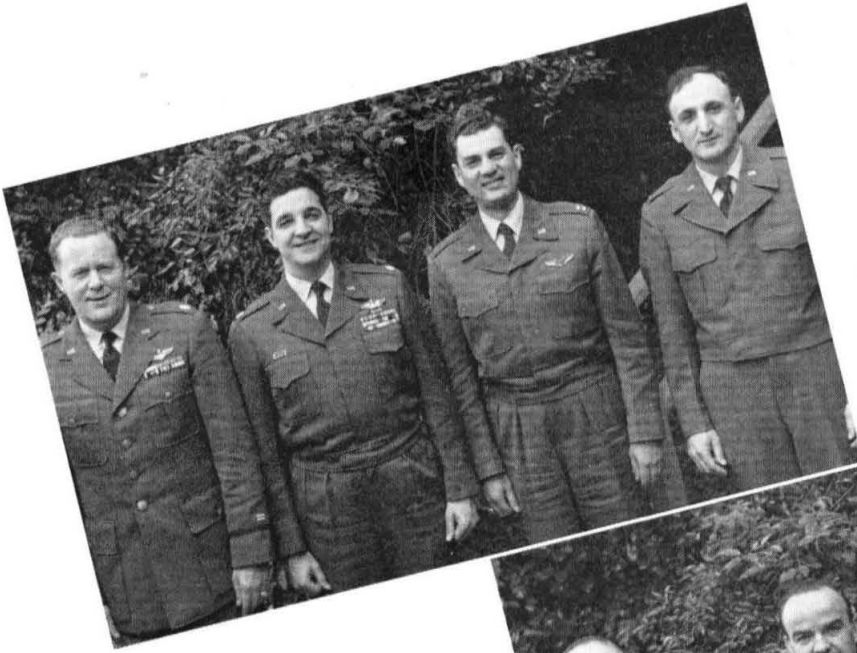


## *humanities*

FIRST ROW, left to right: Alfred Stern, Heinz Ellersieck, Paul Bowerman, Hallett Smith, David Elliot, Peter Fay. SECOND ROW: James Davies, Arthur Grey, Hunter Mead, William Huse. THIRD ROW: Melvin Brockie, Mack Thompson, Dwight Thomas, Harvey Eagleson, Paul Eaton, Robert Wayne.







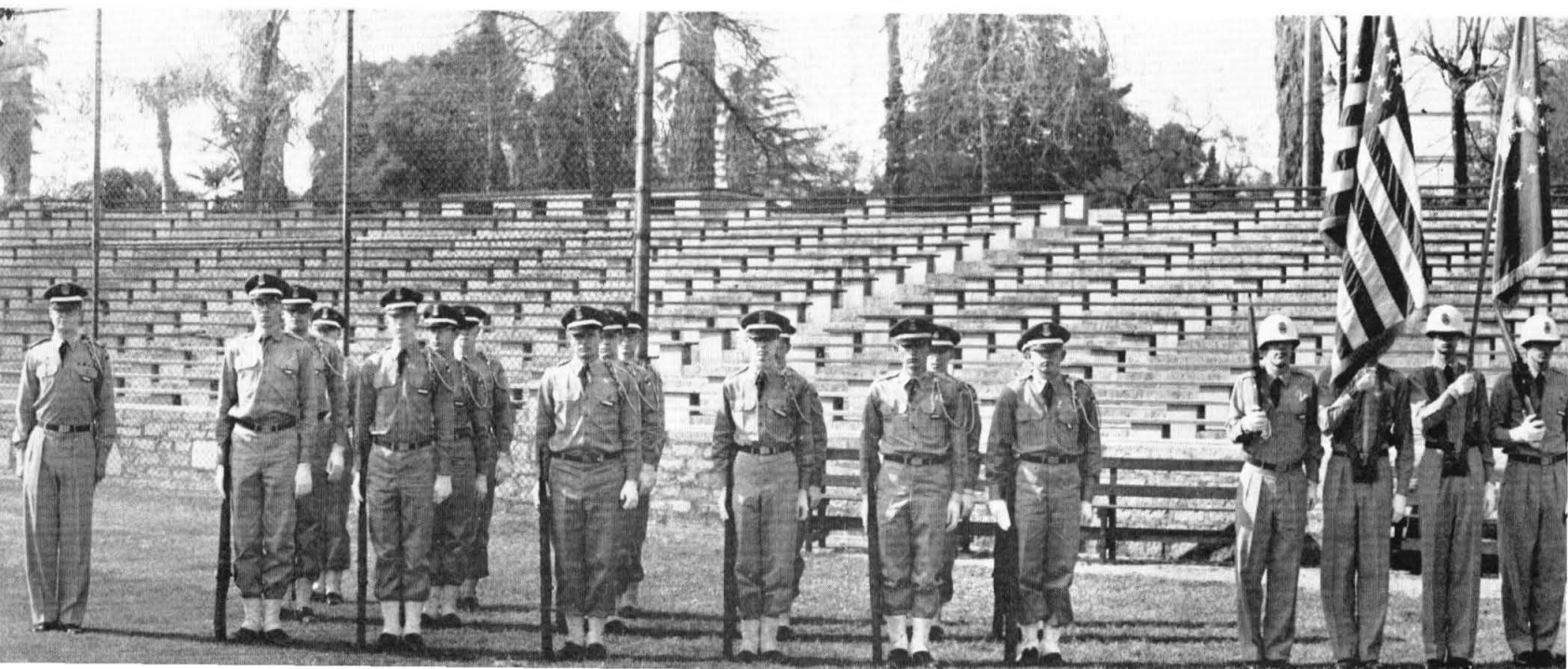
LEFT TO RIGHT: Lt. Col. Lyle Johnston,  
Major Robert Steffy, Capt. Leonard  
Zorne, W. O. Dominic Zangari.



LEFT TO RIGHT: M/Sgt. Leon Bemis,  
M/Sgt. Eugene Justus, T/Sgt. Robert  
Freeman, T/Sgt. Edward Obina.

## *air force reserve officers training corps*

The 1956 Drill Team



The Student-Faculty Relations Committee spent the greater part of the year in dealing with various grievances and academic problems of Tech undergraduates. Professor Thomas Lauritsen graciously served as chairman of the group, and on his shoulders fell much of the responsibility for carrying through Committee decisions. Membership is about evenly divided between members of the faculty and elected student officers who serve on the committee in addition to their other student jobs. The monthly meetings provide the most important contact between teachers and students, and make possible a greater degree of mutual understanding of Institute policies.

As a result of discussion originating in the Committee this year, a resolution suggesting a major overhaul of the Departmental Adviser Program was sent to the faculty. Using the machinery available in the Student-Faculty Relations Committee, student dissatisfaction with the operation of the adviser program was voiced and after many man-hours of give and take debate, a solution was reached which was satisfactory to all.

John Young

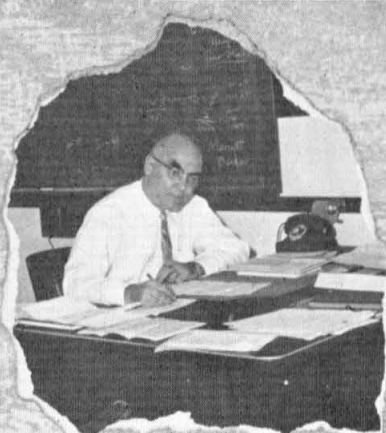


Dr. Thomas Lauritsen  
Chairman

## *student-faculty relations committee*

LEFT TO RIGHT: George Mayhew, Foster Strong, Thomas Lauritsen, Robert Langmuir, Herschel Mitchell, John Young, Donald Clark, Dick Johnson, Louis Fletcher, Wesley Hertenstein, Wes Hershey, Ross Brown, Howard Berg, Dick Hundley, Myron Black, Bob Ingram, Jim Higgins, John Moser, Bob Huebotter, Don Nierlich.





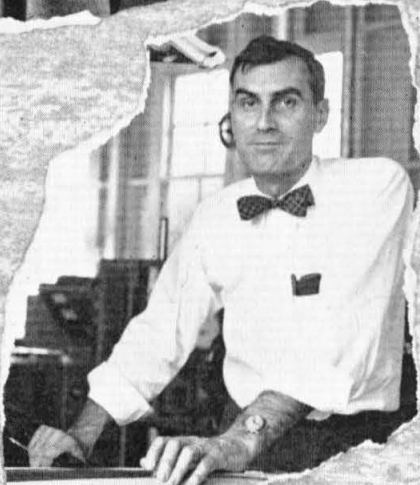
Ernest Swift  
Rolf Sabersky  
Carl Anderson



Mrs. Ned Hale  
'Doc' Clark



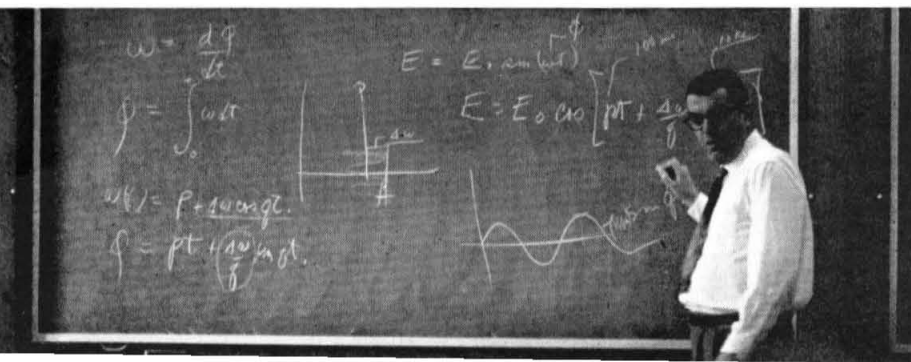
George Trilling  
Hunter Mead  
Norman Davidson

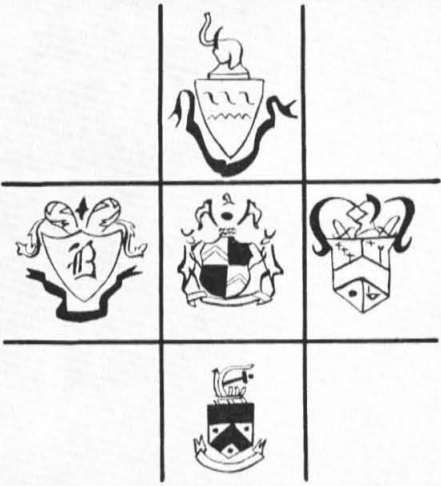


Gunnar Bergman  
Peter Kyropoulos

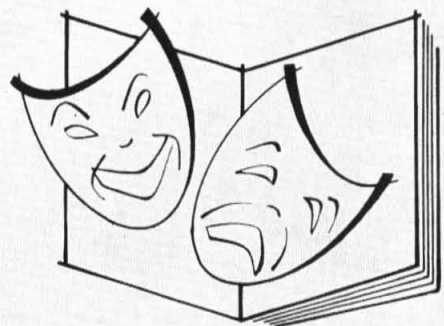
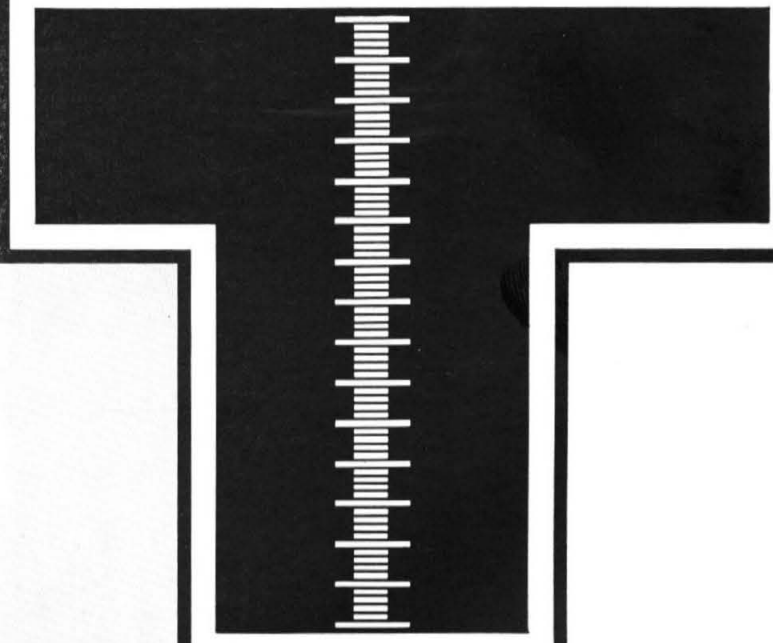
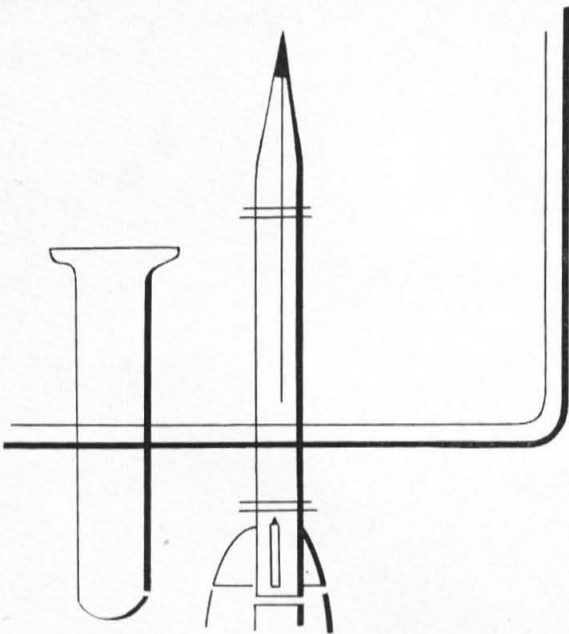
*campus personalities*

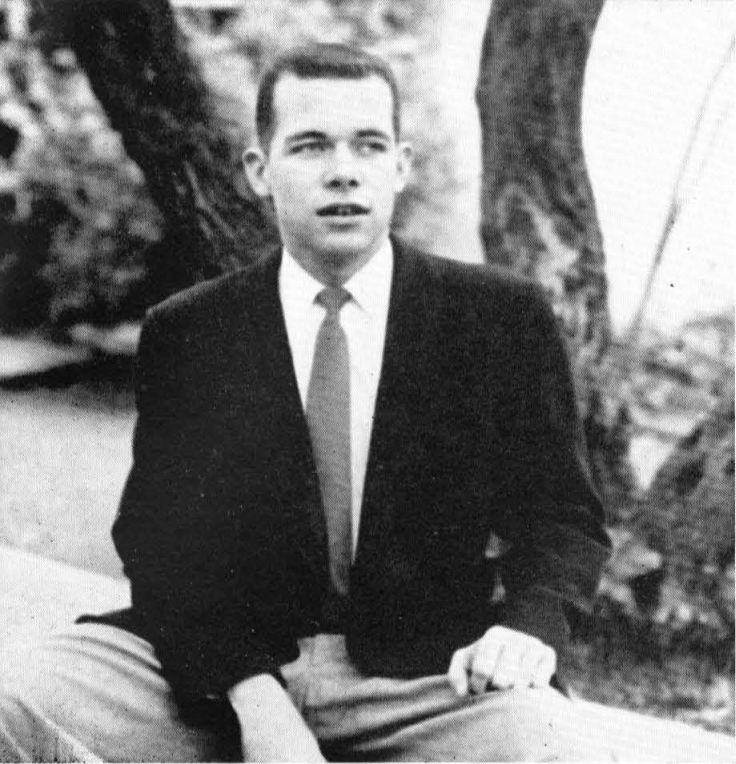






*classes*





Dick Johnson  
President



## *seniors...*

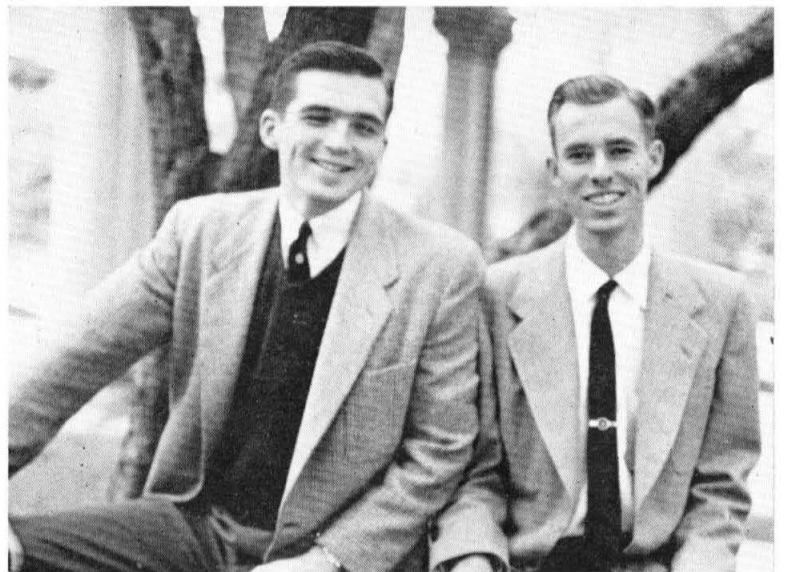
In September 1952 there entered at Cal Tech the then unknown Class of '56. Now four years later, this class will graduate leaving perhaps the greatest heritage at Cal Tech that any class has ever left.

In politics, the class of '56 has excelled. Phil Conley, Howard Berg, Tom Bergeman, John Young; Ted Johnson, Fritz Trapnell, and many others have shown outstanding leadership in school and house affairs. Their leadership has been in a large part responsible for the increased reputation of the student body among surrounding colleges.

Socially, the class of '56 has likewise shown excellent leadership. Bob Kausen, the school's first rep, Dick Johnson, Senior Class President and Yell Leader, Bill Davis and many others have raised the level of the social affairs in school social events and in the house functions. Judging by all of the engagements that occurred to members of the class and adding all of the "lone wolves," this class has enjoyed a great many social functions and activities.

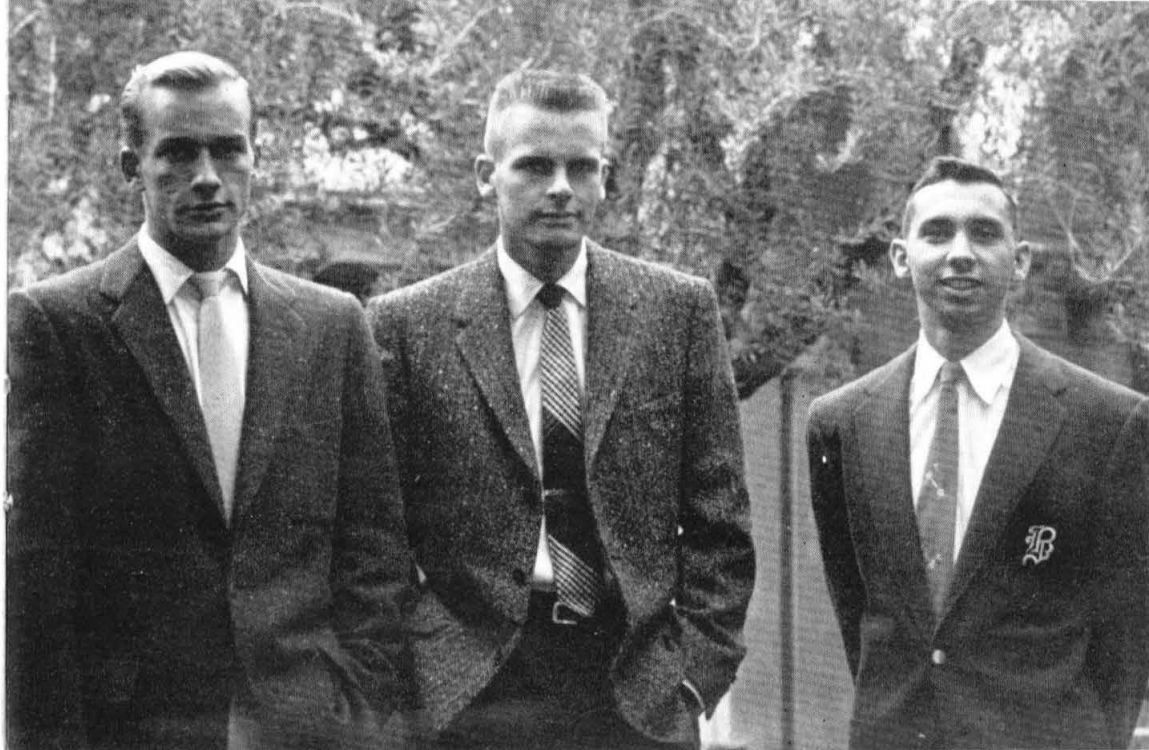
Scholastically the class of '56 is tops again. More than five of its members received N.S.F. awards in addition to others receiving Fulbrights and other Graduate Fellowships. Perhaps the most remarkable thing about the class' high scholastic standing is that most of the scholastic leaders of the class were also the athletic and social leaders besides. This is very indicative of the class and reflects how well rounded its members are.

Athletically the class of '56 is also tops. Phil Conley broke



Louis Fletcher and Ross Brown  
Board of Control



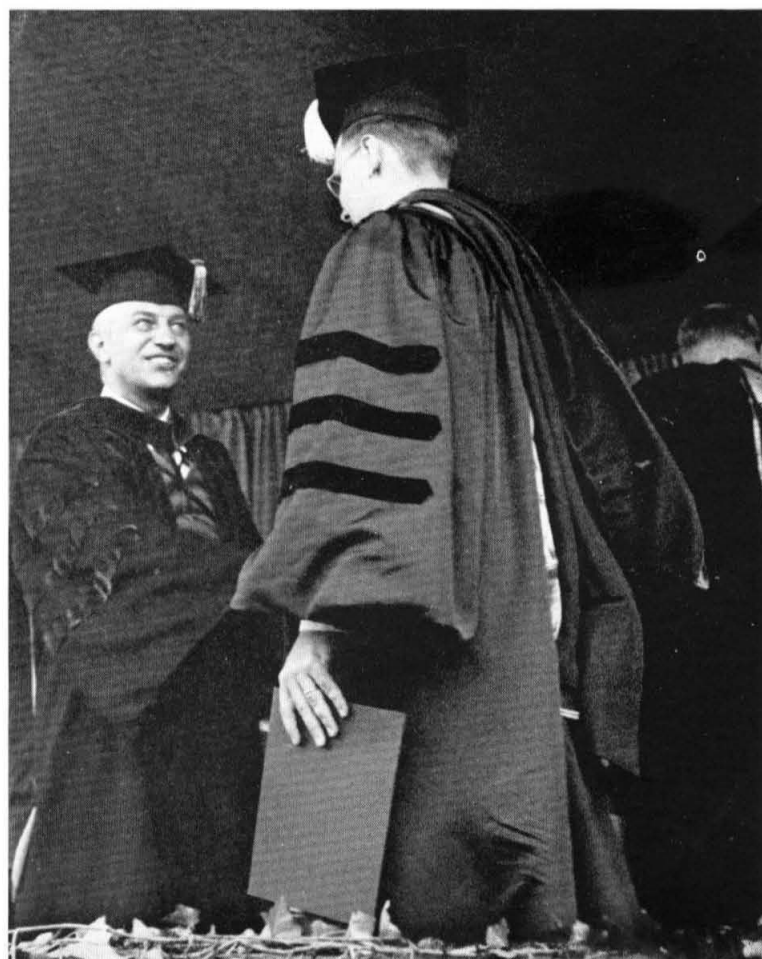


LEFT TO RIGHT: Hunt Small (Sec.),  
Don Lewis (Vice-Pres.), Al Poisner  
(Treas.)

the school and conference Javelin record, besides lettering in Football, Basketball, and Track. Jim Ball came close to duplicating this as he lettered in Swimming, Tennis, Water Polo, and Basketball even though he started playing basketball during his senior year. Other stars, such as Roy Weymann, who was voted the league's most outstanding pitcher in 1955; Don Lewis, Fred Witteborn, Roger Wileman, Jim Lloyd and many others who gave outstanding performances in Track and Cross Country; Kyle Bayes, John Myers, and others who contributed greatly to the football team, were outstanding not only in athletics but also scholastically, socially, and politically. They unselfishly contributed a major portion of their time to the school and were instrumental in giving Caltech the fine athletic reputation it has.

In addition to all of the above activities, the class of '56 was intensely interested in all forms of extra-curricular activities. The Drama Club found men like Sam Phillips, who gave much of his time to the club's yearly presentation. The Debate Team included Ray Orbach, who placed first in the nation in Extempore speaking; John Young, who received an excellent rating in nation-wide competition in Oratory; Myron Black and Howard Berg; all contributing to giving Caltech an excellent reputation in Debate. The Glee Club was first brought to a high degree of activity by Howard Berg and Lyman Fretwell, who formed it into one of the finest choral groups of its kind in Southern California. Add to all of these many more too numerous to mention and it is evident that the present senior class has been in large part responsible for the growth of Student Body Activities at Caltech.

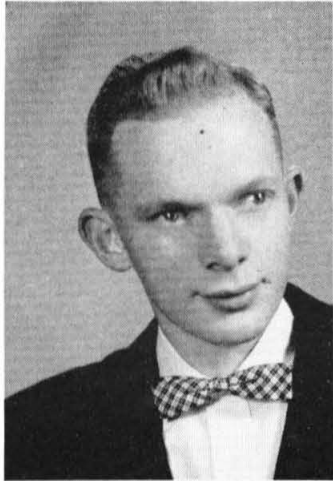
Add to the above a spirit of warm comradeship and the class of '56 emerges as a well-balanced, aggressive, active group of men who have given their alma mater their hearts and their thoughts and who have become perhaps the greatest senior class in the history of Caltech.



# seniors

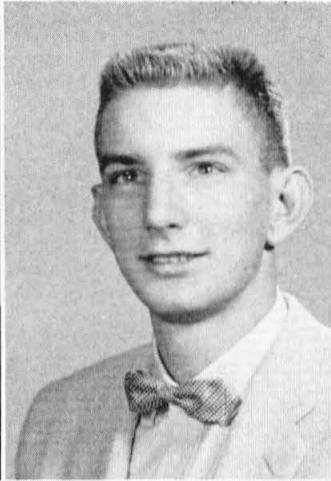
**HAROLD R. ALMOND, JR., Ch.**  
Blacker, T<sup>1</sup>

Hal came all the way from Warm Springs, California, to study chemistry and Tech. When he wasn't pouring money into the student house kitchen for his perennial guest's evening meals, he found time to augment his snaking by earning a letter in diving and serving as co-president of the student affiliate of ACS. After graduation Hal plans to work toward a doctorate.



**JAN L. ARPS, ME**  
Blacker

Captain Arps came to Tech from land-locked Oklahoma and proceeded to make himself the big man in the campus Sailing Club. Aside from doing fine work in the ME option, Jan contributed a rich bass to the Glee Club and recorded almost everything he could hear on his tape machines. His membership in SAE and ASME should help this warm, outgoing personality to achieve his goal of settling down and becoming a "fealthy capitalist."



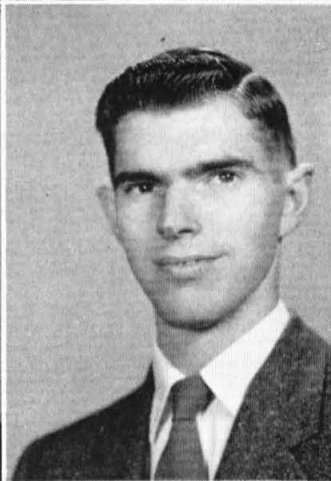
**JAMES S. BALL, Ph.**  
Fleming, T<sup>8</sup>

A veteran of Tempe High in Arizona, Jim never tires of extolling the virtues of Arizona weather and women. As to the latter, he is authoritative, having taken what is known to the trade as random sampling. Endowed with great physical gifts, Jim is a four-sport letterman—swimming, tennis, basketball, and water polo—in addition to being frosh athletic manager and captain of the water polo team. A beakish UCC for two years, Jim plans to attend grad school in physics.



**GENE A. BARNES, Ph.**  
Throop, T<sup>3</sup>

A home town boy from Arcadia and South Pass High, Gene is leaving Tech to attend a midwestern grad school with an eye on a future of applied research. Besides his interest in tennis (three years varsity) and debate (two years), philosophy, paleontology and electronics, Barnes has shown a slight aptitude in physics. As a member of the Throop Club, he has completed a well-rounded life at Tech.



**KYLE D. BAYES, Ch.**  
Dabney, T<sup>3</sup>

From the great Lincoln High School in Seattle comes this great big husky football player. Besides his football activities, Kyle has busied himself with the job of UCC and held up the interhouse teams in track. With only a casual interest in studies (honor standing one year), Kyle enjoys music and fishing more. He hopes to go to grad school and eventually take up teaching as a career.



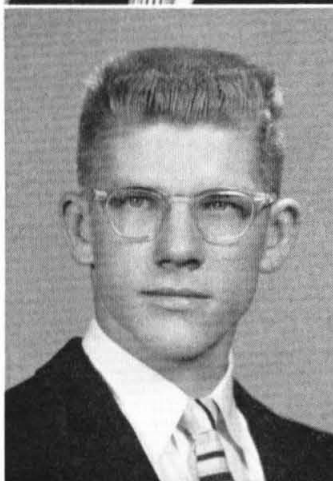
**EUGENE A. NELSON, Ge.**  
Throop, T<sup>3</sup>

San Gabriel's gift to Caltech, Gene was a prime example of the well-known fact that geologists are neat guys and don't do any work. He dabbled in both basketball and baseball before deciding on the latter and becoming one of the team stalwarts. His interest in women also led him to being co-social chairman of Throop Club, but he has now been retired from competition by a certain one named Jackie. A member of the Geology Club (of course), he spent his spare time on motorcycles, sport cars, and a certain '32 Ford. The future—who knows?



**FREDERIC N. BENNING, ME**  
Blacker

Fritz has done well in his four years at Tech. Somehow he gleaned the time from his eighty-hour work week to be Blacker vice-president and social chairman, junior class secretary, freshman class treasurer, and a member of Beavers. Fritz was equally well at home on the football field as quarterback or around the YMCA, where he was vice-president. The aircraft industry is certain to have a spot waiting for this man, and Fritz is planning to take them up.



**HOWARD C. BERG, Ch.**  
Dabney, T<sup>III</sup>, Honor Key

The fact that Howard has performed the nearly impossible feat of collecting three honor keys in his short stay here marks him out unmistakably as a big man on campus. Add to this the fact of Honor standing for four years and membership in Tau Beta in his Junior year, and you can see that the boy from Iowa City has done all right for himself. Howard has written for the Tech, the Farago, is a Beaver, and has held the ASCIT offices of treasurer and vice-president. Most of all Howard enjoys working with people, and he plans to enroll in med school at either Harvard or in Denmark in order to pursue this interest more.



**THOMAS H. BERGEMAN, Ch.**  
Ricketts, TBII, Honor Key

Tom came from Fort Dodge, Iowa, to study chemistry. After cracking this option wide open for a few years, his interest in history and international affairs won him over; he plans grad school in history, and looks forward to possible work in the foreign service. Tom has been co-editor of the **California Tech**, ASCIT secretary, chairman of the Model UN delegation, YMCA publicity manager, Board of Control member, class treasurer, and member of the Beavers. Besides this he was quite active in forensics, which shared honors with reading as Tom's great passion.

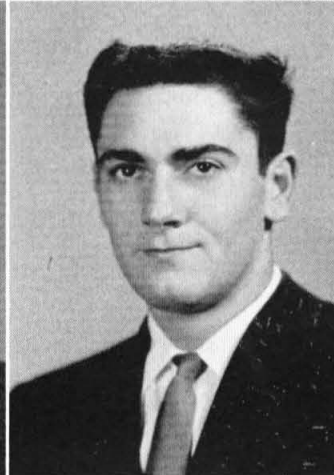


**MYRON W. BLACK, Ach.**  
Blacker, Honor Key, TBII

Black and Blacker merged in revolution but came through with a successful year. Myron has had an eventful four years here at Tech. While distinguishing himself academically, he spent four years on the debate team, and was perennially in the midst of a tussle as Blacker president and athletic manager. In addition he was a Beaver and president of the Chem-E Club. Myron plans for grad school, and after that the Air Force has top priority.

**CHARLES A. BODEEN, ME**  
Blacker, Honor Key, TBII

Chuck probably comes closer in spirit and truth to the true humanities major than any other Tech man. When he relinquished his residence in Blacker for the married life, he simply extended his humanistic sphere which already included being an authority on mobiles, an enthusiastic and talented contributor to **Pendulum**, and art editor of the **Big T**. Chuck is a member of ASME and ASTM, as well as president of Tau Beta Pi and of the YMCA. The first few years after graduation are reserved for the Air Force, after which Chuck plans to produce educational movies.

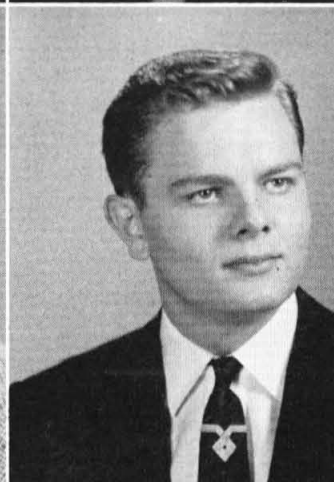
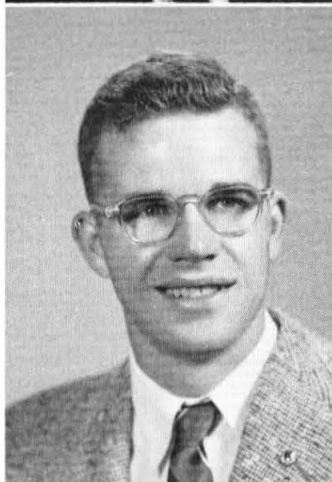


**LOUIS M. BOGDANOVIC, EE**  
Ricketts, T<sup>2</sup>

Luke was deported from San Pedro High School four years ago and came to Tech to study football, skiing, and electrical engineering, and to see Marcia. He spent two years on the varsity football squad, played frosh basketball, was a member of the Ski Club and of the Instituturs. He plans to do graduate work and then do his hitch in the Army prior to making his first million.

**STUART W. BOWEN, Ph.**  
Ricketts

A local boy, Stu came in from Pasadena City College. Besides taking pictures, his hobbies were developing and printing same, and he managed to supply the **Big T**, the **California Tech**, **Engineering and Science**, and **Farrago** with the products of his handiwork. Other interests include hiking, folk dancing, and Physics Club. Silent Stu will Air Force for a while after graduation, after which he plans grad school in physics, and eventually resignation to working for a living.

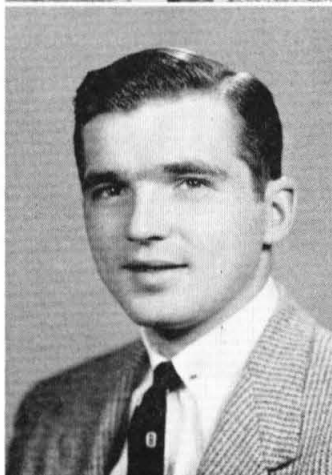


**ROBERT E. BRADFORD, Ph.**  
Dabney

Bob is another gift to Tech from Chaffey Union High School in Ontario. He is one of those rare birds who seems to thrive on physics and poetry alike. Bob is also an enthusiastic fan of both classical music and progressive jazz. With such contrasting interests, you might surmise that Bob is the independent type with ideas of his own. But he is taking the unoriginal way out next year with more physics, probably at Tech.

**ROSS M. BROWN, ME**  
Ricketts, T<sup>2</sup>

Big Ross rolled in from Hyde Park High in Chicago a few years back, ostensibly to learn engineering, but actually to find a little action with the Caltech water polo and swimming teams. Ross was also in the Sailing Club and the Drama Club, on the Board of Control, and was class treasurer, a member of SAE, ASME, and IAS. After graduation he will blunder into the outside world with only the guiding principle of being successful; a prospect considered by most who know him as highly probable.



**DAVID G. CANTOR, Ph.**  
Ricketts

Dave came to Caltech from La Mesa, California, in order to have a quiet, friendly place to build his hi-fi equipment. Discovering that the noise would never subside, he branched out into an appreciation of literature, and associated work with the **California Tech** and **Farrago**, while retaining his fascination for mathematics. As befits a physicist, he is a member of the IRE, and plans graduate work in mathematics.

*class of '56*





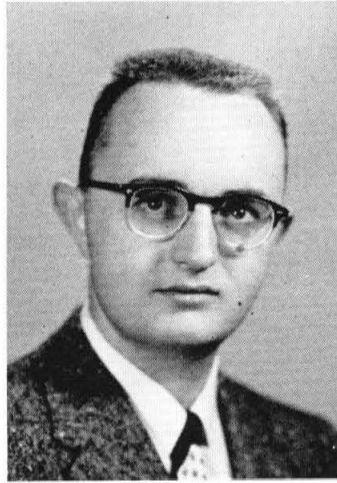
**JOHN C. CARNEY, ACh.**  
Blackler

If you ever need a good carpenter, John is always ready to throw over studies and go to work—a rare and valuable trait in a Tech man. As president of the Instituters and construction engineer at interhouse dance time, John has probably started more Techmen on dirty work than any other single person. When time hung heavily on his hands he reshuffled the Blackler Library and the ACS treasury and worried about the Y film series. John plans to attend grad school here at Tech to study high temperature reactions.



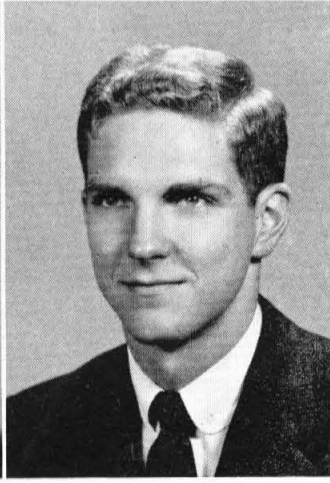
**ROBERT L. CHAPKISS, Ae.**  
Throop

Coming all the way from Marshall High in Los Angeles, Bob has been a Throop Club regular for the past four years. Frosh football, track, interhouse football, and softball have given him his exercise, while the IAS and ASME have provided intellectual amusement. The little of Bob's time left over has been taken up by the musicale, by bowling, and by taking photographs of his baby daughter. The future after graduation holds more schooling in the field of aeronautics.



**WILLIAM M. CHAPPLE, Ge.**  
Blackler

Bill likes geophysics, and he likes it enough to go on to grad school next year to study some more of it. He came here from Billings, Montana, where he graduated from Billings Senior High School. Bill has maintained academic honor standing while in school, and lists his chief recreational interest as just listening to music. Besides grad school, Bill includes marriage in his immediate future plans.



**DANIEL CHILTON, ME**  
Ricketts, T<sup>2</sup>

Dan blew in one day from Hockessin, Delaware, in the first of a series of outlandish cars and motorcycles. During the course of his residence, he played varsity basketball and baseball, was business manager of the California Tech, and joined the SAE. As yet he hasn't decided whether or not to go to grad school before breaking in on industry.

**RICHARD H. CLARK, Ge.**  
Off Campus

Quite unusual as a Tech man, Dick is a geologist with an intense interest in the theatre. While at Tech Dick has divided his time between field geology and the orchestra, although in his early years he showed prowess on Dabney interhouse teams. His plans for the future are to go into exploratory geology, but there is a possibility that playwriting and the theatre will be Dick's major field.

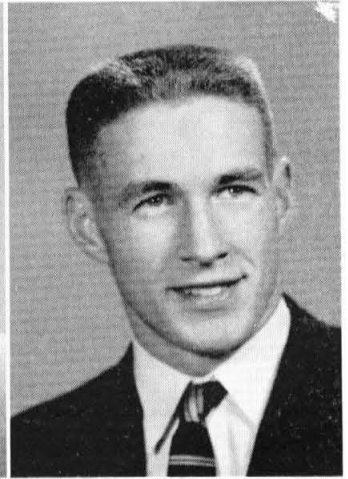
**PHILIP R. CONLEY, ME**  
Fleming, Honor Key, T<sup>10</sup>

Sly little Phil hasn't done too much around campus. Mediocre in sports (ten varsity letters and four frosh numerals), unsuccessful in politics (ASCIT president, ASCIT athletic manager, frosh athletic manager), he managed to raise enough energy to join ASME and SAE. He comes from Fresno, an obscure hamlet; has no social life whatsoever, and in general is pretty much of a nonentity. In fact, if it weren't for his remarkable G.P.A., no one would know he exists. He plans to work, be a Navy officer, and has even mumbled something ridiculous about throwing the javelin in the Olympics.



**JAMES L. COWAN, CE**  
Blackler

Jim comes to us from Los Angeles and Marshall High School. A consistent performer on interhouse athletic teams, he managed to convince everyone else that sports are really fun. Besides contributing much to the house spirit of Blackler, Jim has been one of the leading classical hi-fi men on campus. Nevertheless, he subverted his cultural instinct to the extent of becoming ASCE treasurer. After leaving the confines of these hallowed brown walls, Jim will face the heartless outside world in the field of structural design.



**JEREMY F. CROCKER, ME**  
Ricketts

Straight from sunny Palm Springs came husky Jerry Crocker, complete with a passion for sailing and building boomerangs. When he could tear himself away from the student shop, Jerry played soccer and held down the post of Ricketts House social vice-president. He was also ASME student chairman and secretary for the Beavers. If the Air Force doesn't want him, he'll take a job after graduation, but it would be a shame to let all that aeronautical research go to waste.



**J. SCOTT DAVIDSON, Ach.**  
Throop

Scott, a Glendale lad, has the distinction of being a constant supporter of Throop social events. His interests are varied and widespread, from chemistry to progressive jazz. In between comes interhouse sports where Scott bolstered softball and football teams and was unbeatable at tennis. Interested in people, he attended Asilomar Conferences in '54 and '55. Scott hopes to go on to grad school as a chemical engineer; however, he may end up working for a living.

**WILLIAM K. DAVIS, EE**  
Fleming, Honor Key, T<sup>6</sup>

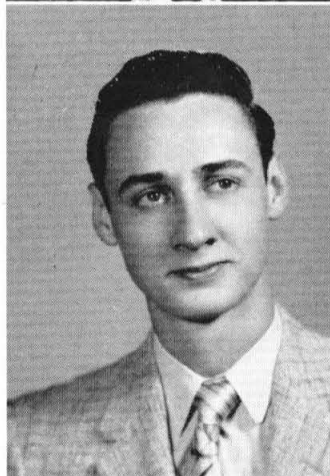
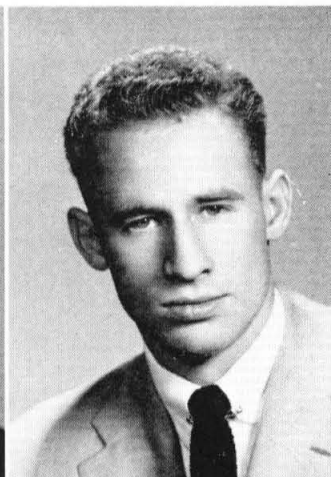
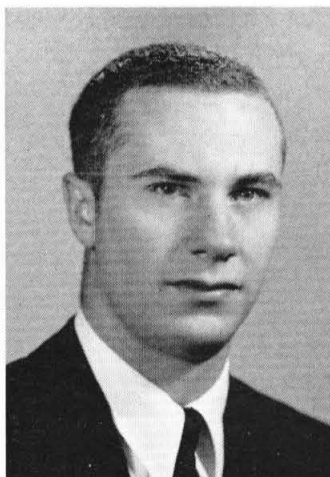
Wild Bill's talents at breaststroking and wooming were shown in the water (six letters and all-conference mention in both swimming and water polo) and on land (as Fleming social chairman). With his room transformed into a tropical fish paradise, complete with sofa and balcony, we have faith that he enjoyed his extracurricular activities. Bill wielded a mighty wicked pen as sports editor of the *Tech* and a mighty powerful jab in informal judo sessions in the lounge. Bill hopes to keep up his flying (zooooom!) and bum around Europe for a while before going into sales work.

**ALLEN D. DIERCKS, EE**  
Fleming

Only the tough nucleus of the former Fleming Lounge Loafers and Bridge Players Association still remains to talk over "olde tymes." With Don as one of the charter members, we and he are sadly realizing that our after-dinner sessions are never the same since he mended his ways. He has even deserted so far as to maintain a healthy interest in the IAS and IRE, but still his more enjoyable hobbies are music, hunting, and fishing (undoubtedly for girls). He hopes to continue in grad school if he can fight off the draft board.

**ALDO G. DILORETO, EE**  
Off Campus, TB II

Aldo came to us as a transfer student in his junior year and wasted no time in cooling the school. This was capped by election to Tau Beta Pi in 1956. An ex-marine, Di Loreto eventually plans to put some of his muscles and neat work to good use in the electrical engineering field and those who know him are sure that it won't be without success.

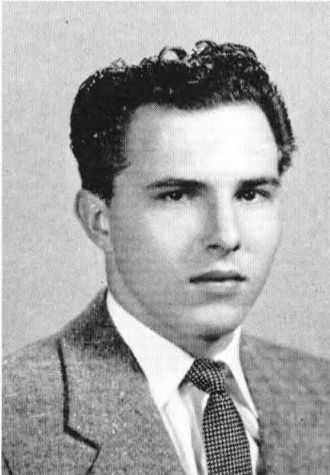


**HUBERT E. DUBB, Ch.**  
Throop

Graduating as a chemist this year, Dubb could be called the "Tujung flash." He has been a Throop Club stalwart in interhouse sports and has played four years of intercollegiate baseball as well. The game room, too, received much of his attention as Throop representative on the committee and as a ping-pong fan. Being slightly interested in chemistry, he also took part in ACS activities. Grad school will take up his time in the future.

**EVERETT T. EISELEIN, ME**  
Dabney, TB II

Hailing from Stockton, Perk has amazed everyone with his enthusiasm for getting things done. A member of the YMCA, the Student Shop, the SAE and the ASME, he has also been in charge of the important job of putting fire and water into the interhouse themes. Besides being the chief engineer this year on the dancing waters, and last year on the dragon, Perk has been a great asset to Dabney interhouse teams in football and volleyball. To top it off, Perk has three years of Honor standing and membership in Tau Beta. His favorite hobby is attending the theater, usually not alone. He's coming back for more work in grad school here at Tech.



**EUGENE E. EPSTEIN, Ay.**  
Fleming

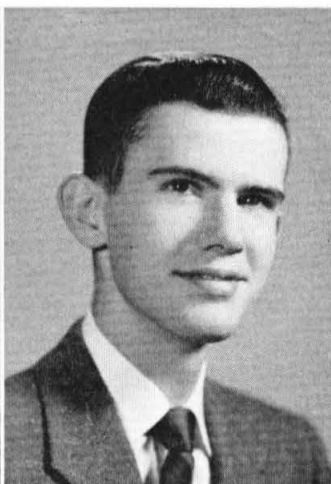
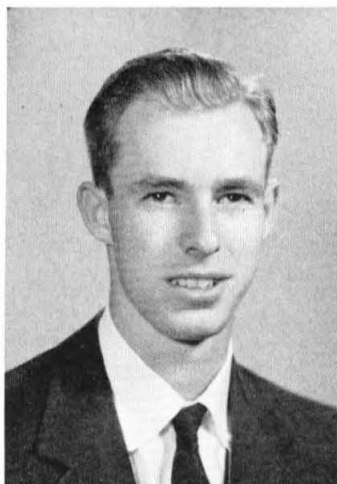
Gene likes jokes (mostly off-color ones), and that's why this Hollywood boy subscribes to all the college humor and sport mags. Of course, he alibis that he just wants material for *Farrago*. Besides being one of the few shotputters here that didn't break 50 feet in four years, Gene has shown and uncelestial interest in things astronomical, and also in other things such as girls and guava nectar. Harvard grad school calls in astronomy, and then—who knows, but Gene mumbles something incoherent about Wall Street.

**RODNEY L. FARRIS, EE**  
Off Campus

Little Rod rolled in four years ago from right here in Los Angeles. Dorsey High School must have prepared him well, because Tech's rough and ready life never fazed him. Having gotten through this place with a minimum of effort, Rod is thinking of going to grad school in EE, but the chances are that he will end up working for a living.

**G. LOUIS FLETCHER, ME**  
Dabney, TBII, Honor Key

From Redlands High, Lou (the mayor's son) came to Tech to embark on a career in politics and perhaps to learn some ME. Working his way up in the house from secretary through veep to president, he has also been co-business manager of the '55 Big T, a member of the Board of Control, and president of the interhouse committee. Moreover he is a member of Beavers, Tau Beta Pi, SAE, and ASME. Besides enjoying fishing, swimming, and golf, Lou plans to get his M.S. and then work.

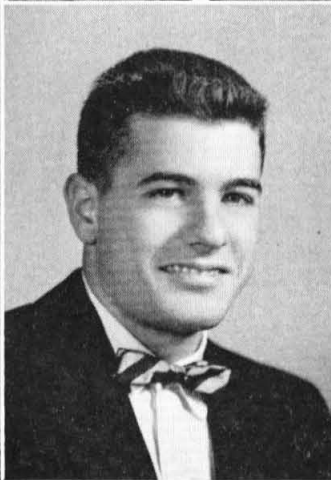


**LYMAN J. FRETWELL, Ph.**  
Ricketts, TBII, Honor Key

Hailing from Tulsa, Oklahoma, Fret started walking off with things right away, with the Tau Beta Pi outstanding freshman award. A man of varied interests, he was co-editor of the **California Tech**, co-editor of **Farrago**, Beaver president, secretary-treasurer of the Physics Club, a member of the Glee Club, and director for Ricketts House in the Interhouse Sing. Besides which he is wicked with a tennis racket. Through it all he managed to cling to the physics option, and plans graduate work in the same field.

**JOSEPH P. GIBBS, ME**  
Blacker

Joe has captured the loyalties of the Blacker waiters this year. After all, how neat it is to be tall, distinguished, intelligent, and—head waiter. Joe claims that his most burning interest is mountain climbing, but when he lost his house pin, he was transformed into one of the strangest fellows you ever met. A member of ASME and SAE, Joe is a perennial leader in the Economy Run and plans to become a truly great ME by attending Caltech grad school.

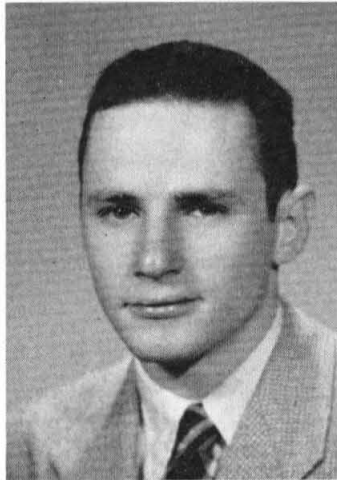


**H. MARK GOLDENBERG, Ph.**  
Blacker, T

Physics is Mark's first interest and he has followed it through quite successfully here at Tech. However, while thus engaged, he contributed to extracurricular life through his skill in baseball and tennis, where he racked up many a trophy point for Blacker. In addition he revealed himself as a semi-frustrated music major by his elaborate hi-fi set and active membership in the Glee Club. After graduation Mark plans to go on to graduate work and then into research and development.

**PETER GOTTLIEB, Ph.**  
Off Campus

A physics major from Hollywood, Pete has mixed his studies with creative writing. Besides winning a third place in the McKinney contest, he was a feature writer for **Farrago**. Work in the Industrial Relations Section served as a way of producing capital while here, but Pete plans grad school studies before making his first million.

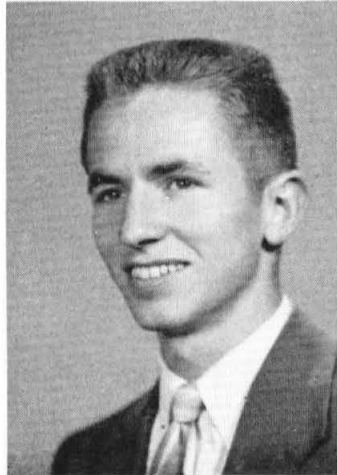


**GERHARD E. HAHNE, Ph.**  
Dabney, TBII

Matt arrived at Tech by way of Hoover High in Glendale, but has since abandoned sunny California for Salt Lake City, which he now calls home. Not lacking in intelligence or ambition, Matt has calmly cooled the physics option and now has three years' Honor standing and a Tau Beta key to his credit. But his real fame on campus comes from the fact that he is chief high excellency (or whatever you call the top dog) in ROTC. His hobbies include hunting and flying. He won't lack much of the latter as the Air Force beckons after graduation, and then it's back to school for a Ph.D. in his first love, physics.

**CHARLES E. HELSLEY, Ge.**  
Ricketts

Rockhound Helsley came from Vista California to join the Caltech Geology Club. During the course of his residence he became vice-commodore of the Sailing Club, and subsequently commodore, and Ricketts vice-president. His reputation as a diligent worker and enthusiastic supporter of house and ASCIT functions was only exceeded by his reputation as a craftsman of interhouse dances. Chuck plans to do graduate work in geology.



**EDWARD E. HERSHBERGER, CE**  
Dabney, TBII, T

From such a wilderness as Pocatello, Idaho, it is quite natural that Ed pursues hunting and fishing avidly. Tennis and sports in general claim his interest, and while at Tech he has put some of that enthusiasm into soccer and also manager of the football team. Having held down the offices of secretary and veep of ASCE, and upheld law and order in Dabney as a UCC, Ed has held up under the rigors of maintaining honor standing, and now holds forth as a Tau Beta. Ed's very definite plans for the future are either grad school, work, or a hitch with Uncle Sam.



**ROBERT T. HERZOG, ME**  
Fleming

A friendly, amicable companion, equally ready to go out to eat or engage in another bull session, Bob has made Fleming his home (except for the all too frequent trips to Frisco to see a certain girl). Between his duties as SAE chairman and membership in ASME and AS-TM, Bob has found time to appease his desires for sailing and flying (in a plane), and for women and travel (to see women). His road will be tough after graduation, as Bob will work until the Air Force calls him to flight school.

**JAMES L. HIGGINS, EE**  
Ricketts, Honor Key, T<sup>2</sup>

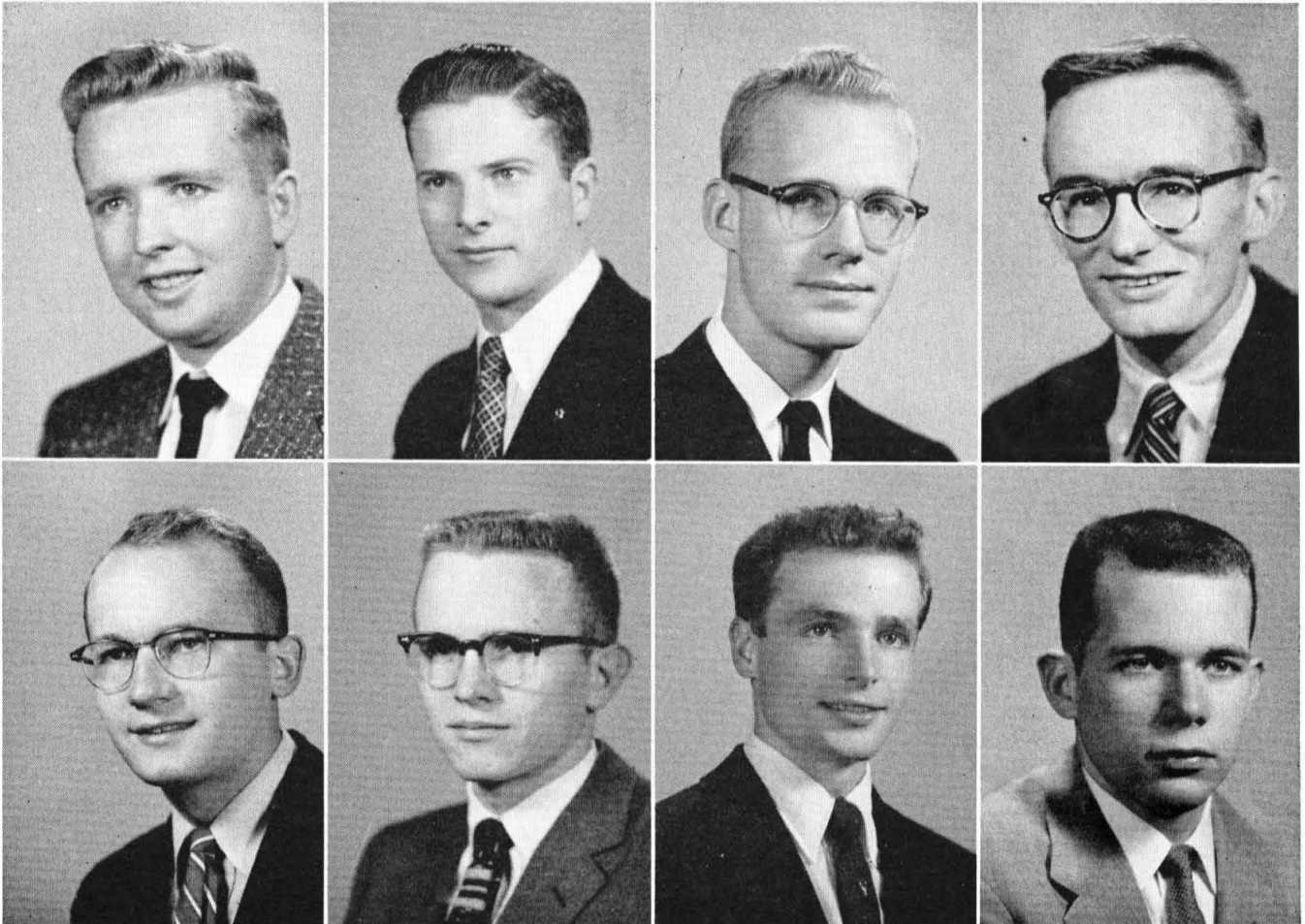
Jim found no handicap in the fact that he was built pretty close to the ground; what he lacked in stature, he more than made up in zeal. Bostonian Higgins lists as main interests sports and women (his distinction between the two is arbitrary), but his record shows he not only managed basketball for two years, but was a member of Beavers, AIEE, IRE, and of course Ricketts president. His plans for the future are keeping out of the Army long enough to get a job in industry.

**JOHN S. HOLLAND, EE**  
Fleming

From Oakland, John lists as his activities Drama Club, YMCA, Fargo, the Musicale, Glee Club, Alpine Club, Sailing Club, Ski Club, Christian Fellowship, Radio Club, Geology Club, Newman Club, Rifle Club, Student Shop, and Dancing Class. Despite this impressive list, John's interests are sports, square dancing, hot-rod autos, and rhythm and blues. His goal is to control the nation's canning industry, where he has worked as a skilled laborer for the last four summers.

**JOHN S. HOWELL, Bi.**  
Dabney

We proudly present here a man whose fondness for Caltech is nonpareil. With more than just a dispassionate interest in the passing scene and those around him, he has complemented his thirst for knowledge with an active participation in the good life (not to mention active participation at the bridge table). Medical school is John's objective, probably after graduate work in the biological sciences.



**ROBERT L. JETTER, ME**  
Dabney

Originally from Sacramento's famous C. K. McClatchy High, hailing now from San Marino, Bob was an ME before his recent decision to change to CE after getting his degree. Jetter is somewhat renowned as a member of SAE and ASME, a Ski Club officer, and Dabney House secretary, but he is much more famous for his fantastic luck. After Tech, Bob plans to go to grad school.

**BYRON B. JOHNSON, CE**  
Ricketts

A refugee from Torrance, California, Byron succeeded in establishing himself as "Beak" as part of his platform and program as Ricketts treasurer. His chief interests in life can be counted on one finger, preferably the one he put the ring on this spring. Prior to giving up his single status, he was editor of the Little T and a member of ASCE. He plans to join the Navy after graduation, or go into highway engineering.

**ERIC A. JOHNSON, Ach.**  
Blacker, T

A transfer from San Diego State, Eric has certainly made himself a man of distinction about the campus in his past two years. A member of ACS, the Instituturs, and secretary-treasurer of the Sailing Club, Eric was also a familiar figure about the Alumni Pool, managing the water polo and swimming teams. After a crack at grad school, Eric plans to put his vast store of knowledge about things chemical to work in the oil industry, and those who know him are certain that the personality and drive he has shown will make him a success anywhere.

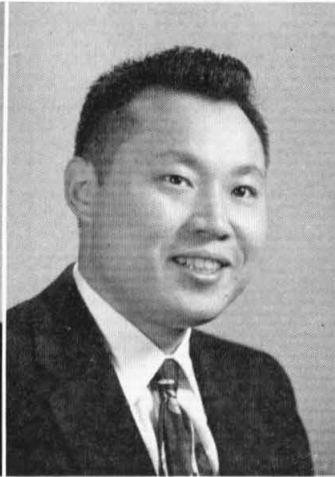
**RICHARD A. JOHNSON, CE**  
Ricketts, TB III, Honor Key, T<sup>6</sup>

This smiling Norwegian descended on Tech from that branch of the wilderness known as Portland, Oregon, and two adjectives describe him well: athletic and popular. He was junior and senior class president, head yell leader, president of the Ski Club, a Beaver, and spent three years splashing about on the varsity swimming and water polo teams. He was also a member of the ASCE and wore countless gold braid on his R.O. hat. USAF flight school will take his time after graduation, but he wants to get one year of grad work before becoming "famous and rich."



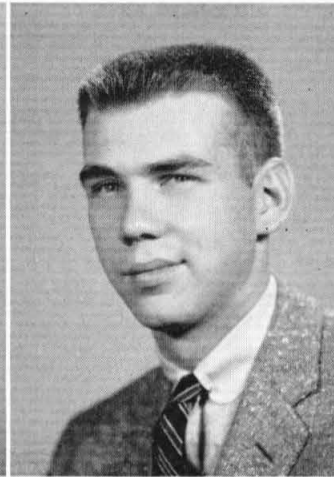
**ARNE KALM, CE**  
Dabney, TBII, Honor Key, T<sup>2</sup>

Although few could tell by talking to him, Arne came originally from the other side of the world, Tallinn, Estonia, to be exact, but now he calls Oakland, California, his home. While at Tech he was on the editorial staffs of the **California Tech** and the **Big T**, a member of Beavers, Students' Day chairman, and president of ASCE, as well as a stellar member of the soccer and track teams for three years. Even so, he had some time left over for studying, as evidenced by his membership in Tau Beta Pi. Plans for the future include a year of grad school at Tech and then work in the structural design field, provided Uncle Sam doesn't get him first.



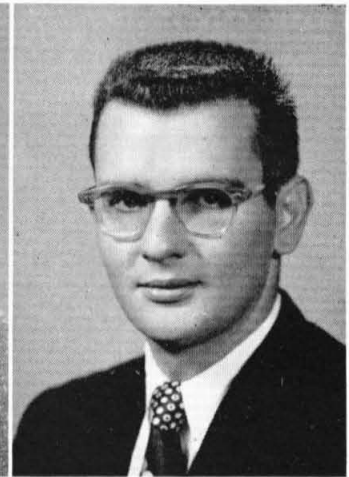
**ARTHUR A. KAMII, Bi.**  
Blacker

Art is graduating in biology, but plans a career in medicine. He calls Hollywood home, and graduated from Hollywood High School. Here at Tech he has held memberships in the YMCA, the Glee Club, and the Chem-E Club. He also likes to read Japanese and English literature and play the piano. Next year Art will begin his study of medicine at the Johns Hopkins University School of Medicine in Baltimore.



**ROBERT C. KAUSEN, ACh.**  
Dabney, Honor Key

Another McClatchy High stalwart from Sacramento, Bob has done a wonderful job of overcoming his shyness while here at Tech. While accomplishing this, he has been the Darbs' social chairman, ASCIT first rep, Beaver treasurer, and a member of the Student-Faculty Relations Committee, the Chem-E Club, SAE, and ACS. Among his many interests are the outdoors, sports, art, and Linda. Bob's plans include marriage and going into technical sales work.



**LEON M. KEER, ME**  
Dabney

This ME came here as a local lad from Fairfax High. An all-around athlete, his accomplishments include many triumphs in the participator sports of debate, interhouse athletics, bridge, crew, and women. Foolishly he tried interhouse football, where he was really a terror, except for the fact that he couldn't see without his glasses. His surprising engagement settled his future pretty definitely; he plans to go to work to support himself and his wife.

**RALPH O. KEHLE, Ge.**  
Dabney

From Van Nuys and North Hollywood High, Ralph came to Tech to be a geologist. Once here, he decided to spread himself around and has been moderately successful, having been: a UCC, a member of the Glee Club and the Alpine Club, holder of several offices in the Ski Club, and a participant in frosh and varsity water polo and swimming. After Tech Ralph's plans include a doctorate degree, work in the oil industry, and eventually a teaching position.

**M. JAY KIMMEL, Ph.**  
Dabney, T<sup>1</sup>

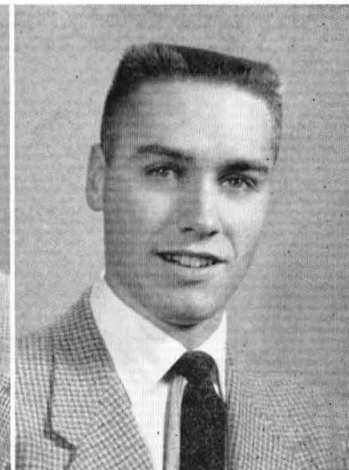
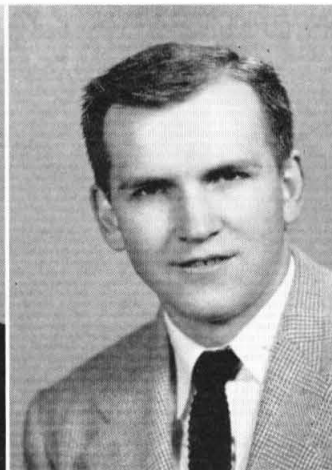
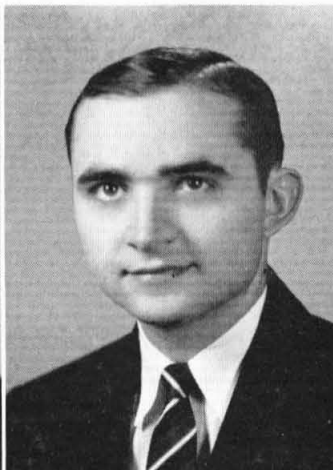
A Hoosier from Terre Haute, "On the banks of the Wabash, far away," Jay came all the way to California just to become a physicist. Since arriving, he has also become a UCC, worked on the **Big T**, managed basketball for two years, and been a member and vice-president of the Caltech Christian Fellowship. After graduation Jay plans to attend seminary and perhaps go into missionary work.

**JAMES H. KOONTZ, ME**  
Fleming, T<sup>2</sup>

Koontz, the waiter, is living proof that Techmen are attractive to women—he married one. Other activities are membership in IAS and ASME and non-voting membership in the Caltech Dart Club. Jim retains the P. R. Conley Memorial Award for receiving a certain large finite number of blue slips. From China Lake, California, Koontz has absolutely no future plans other than his present job of house marriage counselor. He's been out for basketball and baseball and done remarkably well considering he has no ability whatsoever.

**JOHN K. LANSINGH, ACh.**  
Ricketts

The man with the phenomenal memory from Santa Clara seemed to have the right combination for study and play; do all you can all the time. John edited the **Big T** last year, and was on the staff this year, as well as on the **California Tech** staff, and was active in interhouse athletics. His interest in music, theater, and journalism combined to establish the popular "Audience" column in the **Tech** this year. John will go to work after graduation, if the Army doesn't snatch him.



**PETER O. LAURITZEN, EE**  
Blacker

Pete came here from Rock Island, Illinois, after graduating from Rock Island Senior High School. Pete likes EE and thinks he will probably go to work in the field right after graduation. Here on campus he has been secretary and also treasurer of the YMCA, and he was instrumental in forming and managing the square dance group. He also likes sports and has been active in JV soccer and on Blacker's interhouse teams.

**KENNETH L. LAWS, Ph.**  
Blacker

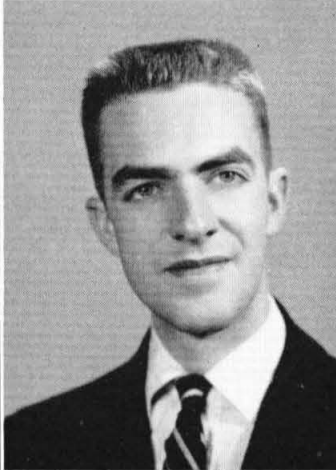
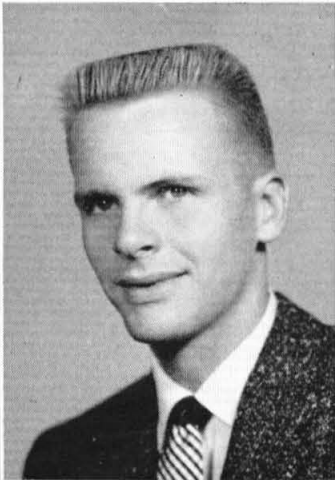
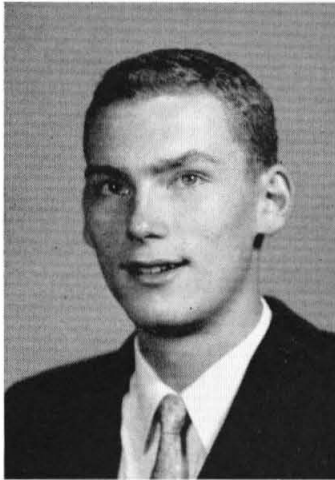
Ken hails from San Marino and is a product of South Pasadena High School. An active member of Blacker, his special outside interest is music, especially jazz. He has also found time to participate in varsity swimming and frosh baseball in addition to being a consistent performer on interhouse teams. Not to be discouraged by four years of physics, Ken plans to continue his studies in graduate school.

**DONALD W. LEWIS, Ge.**  
Dabney, T<sup>6</sup>

After four frivolous years at L.A.'s Hamilton High, "Lightfoot" came to Tech to star in geology, track and women. ("Women are the root of all my troubles... fortunately.") While at Tech, Don has somehow managed to combine successfully a clean outdoor life of mountains, skiing, and fishing, with politics (junior class athletic manager, senior class veep, and a yell leader). After spending this summer working (?) in Peru, he plans to go on to grad school at Johns Hopkins.

**PAUL O. LINDFORS, EE**  
Off Campus

Hailing from the midwest, Paul settled down in Blacker House to take on the hard job of social chairman, and his fame still lingers as a noted student waiter. Paul, however, preferred the married life to the campus routine and abandoned Blacker for greener pastures last summer. As C.O. in the ROTC unit, Paul does a good job of filling the shoes and bearing up under the responsibility of being top dog and big wheel.



**THOMAS R. LOVEJOY, CE**  
Throop

From Glendale Hoover High School Tom came to Tech to become secretary and president of the Caltech Christian Fellowship. A happy civil engineer, he also acted as secretary and Spillway editor of ASCE. To keep from studying he dabbled in athletics as one of Throop's strongest assets in interhouse softball and basketball. His primary interest at present centers around getting out of school in order to get married, and what's worse, to work.

**DUNCAN E. MacDUFFIE, Ch.**  
Fleming

Duncan's from Melbourne, Australia (which we learn is pronounced Ostrilya). Besides vehemently denying his kinship to either kangaroo or aborigine, Duncan has played tennis, been treasurer for the Internations Association, and been active in YMCA and debate. Next stop for MacDuffie is England for graduate work, where he plans to start another chapter of the Fireplace Starlers League.

**A. STEPHEN MAGER, ME**  
Fleming

Renowned for his remarkably high purity score, Steve is an active member of both ASME and the Everyman's Pizza and Beer Society. He'll never forget the year of his graduation, "It's n plus one where n is the year the Dodgers won the pennant." Steve's from White Plains, N.Y., and when he retires at age thirty on a large but comfortable income, he'll fondly remember establishing the Mager Memorial Award and the Omicron Chi Fraternity, which of course signifies Ophthalmi Choirei.

**J. McKIM MALVILLE, Ph.**  
Blacker

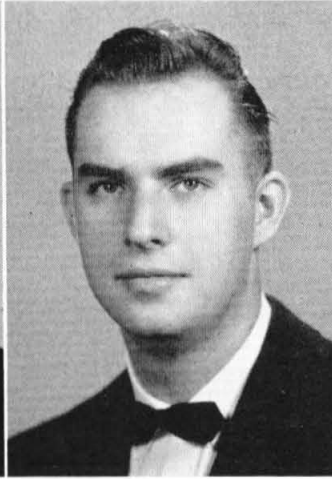
Never a man to sit back and merely let culture funnel into his ears, Kim has been contributing his share to the general stream of knowledge by writing for *Pendulum* and debating with the Caltech team. As chairman of the Y Undergrad Lunch Club, Kim was instrumental in bringing culture to the men at training table. In his spare time Malville heads for the hills either to ski or to pursue his avid love for mountain climbing. Unable to shake the fatal grip of physics, this native of San Francisco plans to attend graduate school.





**DON F. McALLISTER, Ph.**  
Blacker

Don hails from Excelsior, Minnesota, where he graduated from Marshall High School. A real outdoorsman, he spends much of his spare time water skiing, fishing, and camping. He also likes to skate, square dance, and visit with relatives. Although a physicist, he has a business career already picked out for himself. He plans to step right into a hotel business and car-wash business back in Minneapolis.



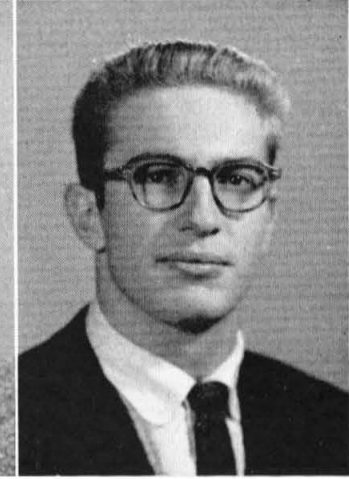
**DELBERT C. McCUNE, Bi.**  
Blacker, T<sup>3</sup>

Big Del has been an impressive sight around campus, particularly on the football field and in track, where he has played a lot of ball and garnered many points for Caltech teams. A biologist by choice, Del plans to attend grad school, after which, who knows? At any rate, we know that good-natured Del will make out OK.



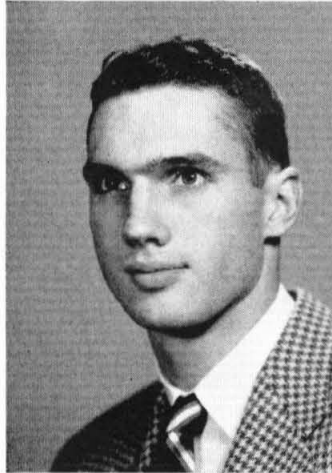
**PAUL E. McHORNEY, CE**  
Ricketts, TBII

Quiet Paul came to us through the courtesy of San Diego High School, and he wasted no time in promptly cooling the school. Try as he would to lead a rather sessile life, he was jarred loose last summer by a girl named Velda. His plans for the future include marriage in June, work, and grad school here at Tech. Probably his most notable achievement, though, was palming off his poor sick Studebaker on a used car dealer, an action which precludes the keen business sense necessary to a CE.



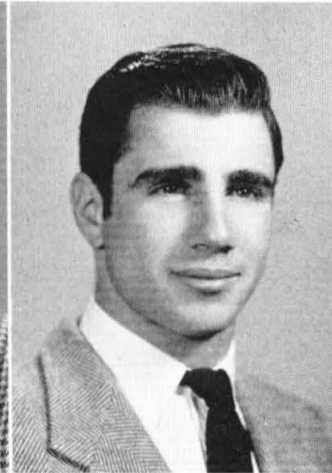
**JOHN L. MOSER, EE**  
Throop, Honor Key

How John ever landed in Throop Club is a mystery to most observers. Melbourne, Australia, is his home town and Roosevelt High School in Seattle his alma mater, giving this lad a real cosmopolitan character. Putting this character to work, Moser has made his mark as Throop Club prexy, as well as being a member of the Beavers and the Ski Club. Interhouse sports also saw his constant participation. Women and making money were once his major interests, but the former had to go when he got married during his senior year.



**JOHN M. MYERS, EE**  
Fleming, TBII, T<sup>2</sup>

It was a bright and sunny day when John left Tempe, Arizona, to make his mark in the big city. And that he did. A tackle on the varsity football team, he also coerced some of the voters to become Fleming vice-prexy. But don't think that he doesn't like the EE field as much as the football field. He doesn't. Still, John has snatched a Tau Beta Key while actively supporting the Physics Club and IRE. Future plans are grad school either before or after gaining some scratch from the business world.



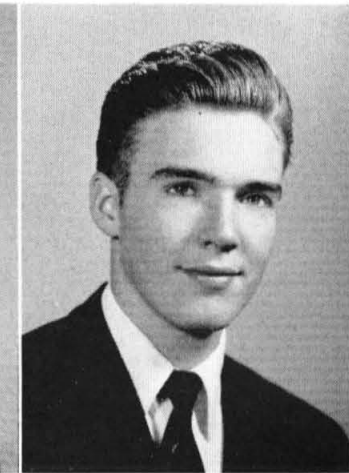
**STEPHEN A. NATHANSON, CE**  
Throop, T<sup>3</sup>

Another Tujungan, Nate has shown admirably in his four years at Tech that being an outdoorsman comes before CE. Four years as right guard on Tech football teams and three years as varsity baseball manager have been his contributions to athletics, but he has spent most of his spare time in the mountains or at the beach, fishing, hiking, and skin diving. A member of Throop Club and ASCE, Nate is pointing toward pipe line construction as a career after a little graduate work in fishing at Oregon State.



**RAYMOND L. ORBACH, Ph.**  
TBII, Honor Key

From L.A.'s Fairfax High School, Ray has struggled through this hole. Aside from taking such culture courses as Swift Lab, Organic, and P.Chem, Ray has also been Tau Beta Pi veeep, managing editor of the '55 Big T, California Tech reporter, and an Asilomar officer, thus earning three Honor Certificates and a Key. Interested in the outdoors and sports, Ray's future plans include Eva and grad school.



**REX B. PETERS, ME**  
Fleming, TBII

Wilmington can be proud of its fodder for the education mill. While not being boastful about his accomplishments, Rex has kept a healthy interest in ME as an active member in the SAE, ASME, and ASTM. As president of the Caltech Christian Science Organization, Rex has delved a little in the nonscholastic side of life. His "just for fun" interests include music, skin diving, boats and cars. The Air Force gives him three years of camaraderie right after he gets his diploma.

**SAMUEL R. PHILLIPS, ME**  
Ricketts

Big Sam rolled in from Washington, D. C., bringing with him an avid interest in sports cars, guitars, and pistols. During his undergraduate years he was circulation manager for the **California Tech**, a member of ASME, SAE, and the Glee Club, was Drama Club president, and founded the Rifle Club. He also professes an inclination to wrestling, which may explain how he distributes his considerable length in an MG. He plans graduate work here next year.

**JERRY R. PIXTON, EE**  
Dabney

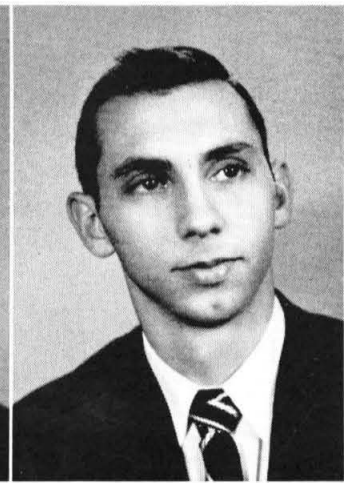
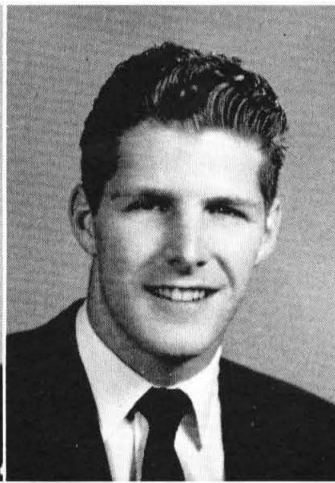
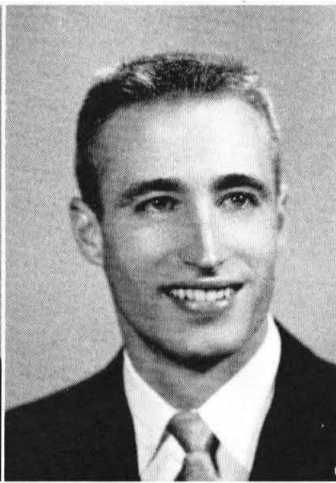
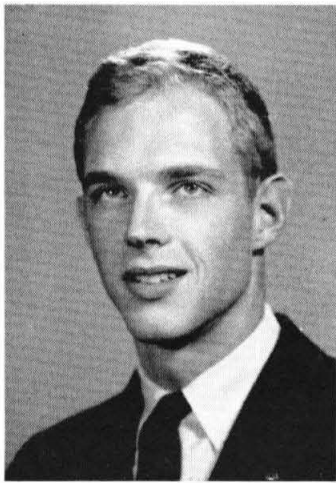
From Grossmont Union High of La Mesa, Jerry came to Tech to become "boy EE." He has been a member of the Student Shop, the IRE, the technical director of the Radio Club, and has served his class as its representative on the Board of Control. Jerry's spare time activities include women, ham radio, flying, tennis, and swimming. Besides all these activities, he has been a member of the National Pilots Association, and the Caltech AFROTC. After graduation, his plans include marriage and a hitch in the Air Force.

**THOMAS R. PLAMBECK, Ph.**  
Dabney

Tom is sort of a normal fellow concerned with many things other than school (especially this last year). He has been active in intercollegiate track and cross-country, and in interhouse sports, besides spending his summers working with the Eskimos. This, however, has not interfered with Honor section and two years Honor standing as a physicist. In the future anything can happen, as his friends know, but it looks like ME grad school at Tech.

**ALAN M. POISNER, Ch.**  
Blacker, T<sup>3</sup>

A chemist who plans a future in medicine, Al comes to us from Kansas City, Missouri. Never one to be left out of activities, Al has managed to get into about everything conceivable around Tech, including: frosh and varsity tennis, a pair of class offices, and the Blacker House athletic managership. As the frosting to the cake, Al earned himself a little money by taking first place in the McKinney Prize in English in 1955. If you want to look him up next year, try the University of Kansas Medical School.



**RICHARD H. PRATT, Ge.**  
Ricketts

Dick comes from about every part of the civilized North American continent, but calls Seattle his home town. He professes two great loves in life, trolleys and street cars. He also likes geology and singing. He was in the Geology Club, and was secretary and president of the Glee Club... as well as founder, president, and sole member of the Trolley Lovers of America. His plans for the future are almost as undiscernible as his love for trolleys.

**GERALD L. PRESSMAN, EE**  
Throop

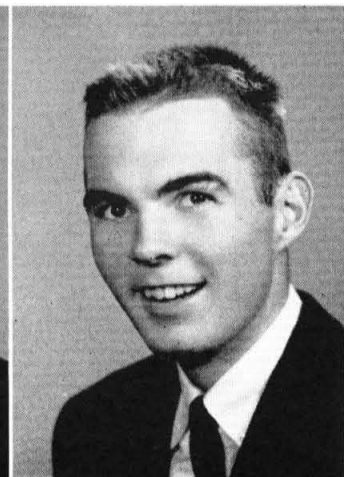
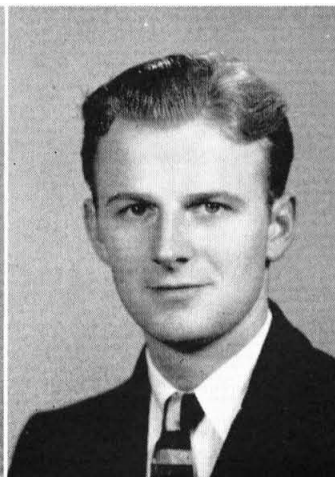
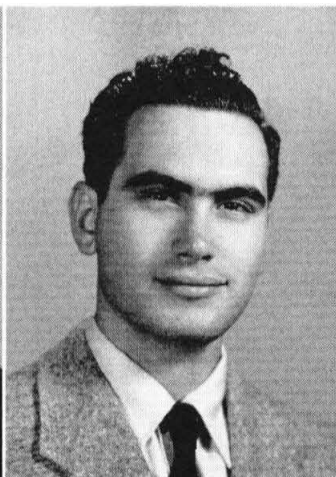
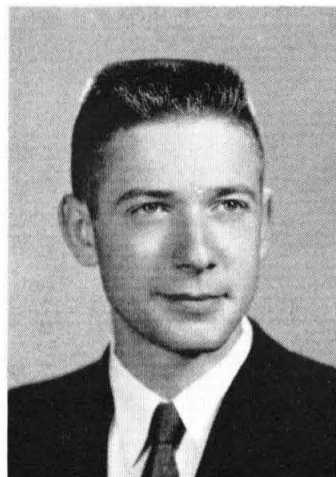
One of the willingest workers at interhouse dance time, Gerry has shown Throop Club the pleasure derived from participation in school activities. For an EE, Gerry is pretty musical, being a member of the orchestra and of the musicale. His other interest is photography, and taking pictures seems to counterbalance analyzing circuits. A member of the IRE, his career in EE will have to wait until the Air Force is through working him over.

**WILLIAM K. PURVES, Bi.**  
Dabney, Honor Key

From humble beginnings at Sacramento's famous (?) C. K. McClatchy High School, Bill has managed to go far while here at Tech. He has been Dabney veep twice, a UCC, co-business manager of the '55 Big T, and class secretary. His interests include interhouse athletics, music, and a certain winsome lass out at Pomona. After Tech Bill plans to go to grad school at Yale.

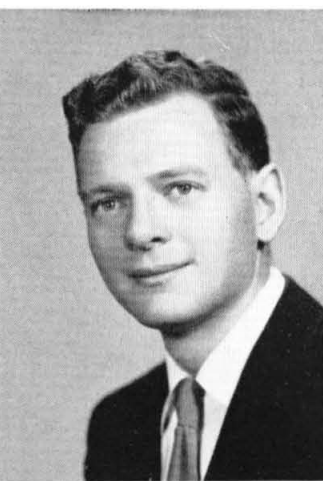
**GORDON S. REITER, ME**  
Blacker

One of those boys from Albuquerque, New Mexico, and an alumnus of Albuquerque High, Gordon looks forward to work as a ME immediately after graduation. Besides being a mainstay on the staff of the **California Tech**, Gordon has been an active member of the YMCA, where he has served as head of the Y Film Series. Somehow he has also found time to squeeze in IRE and ASME, and has never lacked time to spend with cultured young ladies.



**THEODORE J. JOHNSON, EE**  
Dabney, Honor Key

This "dumb Swede" is originally from Iron Mountain, Michigan. Ted, in trying to get over an inferiority complex from Berg, managed to become ASCIT secretary, rally commissioner, house president, a member of Beavers and the Glee Club, and win an Honor Key. All this and a good piano player (not pianist), fool! His plans include grad school and eventually work in the design phase of engineering.

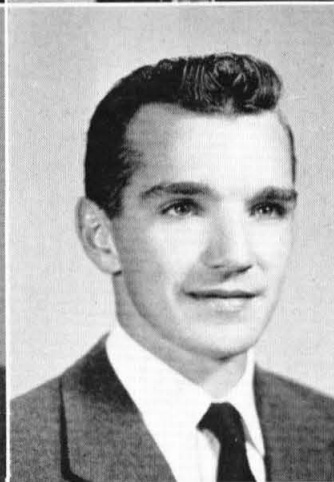


**RONALD L. ROCKEY, EE**  
Off Campus

A local boy from Marshall High, L.A., Rockey has come through the EE option with flying colors, gaining Honor standing in his junior year. Another one of those men with ideas, he wants to see Paris after graduation and if he can tear himself away from those French women, he will come back to the states to crash into industry.

**JOHN RODGERS, Ph.**  
Fleming

West Phoenix High must produce real Phoenicians if John is an indication of their graduates. With the distinction of being the only man in the "Five-Year Club" who is cooling the physics option, John can rest on his laurels. But he still has his heart in the Fleming Fireplace Starters and Card Players Association, of which he was a member until recently. Besides the ever-present Physics Club, John has kept up on interhouse sports and skiing. His plans after graduation are grad school.



**CHARLES S. SARGENT, JR., Ph.**  
Throop

If this lad looks familiar, it is because he was a senior in last year's Big T also. To be unique, Chuck decided to become a fifth-year undergrad and take some geology outside his physics option. Originally from Seattle, Sarge graduated from Hollywood High School in Los Angeles. While at Tech, Throop Club took up much of Chuck's time, and interhouse sports prospered under his regime as athletic manager (Throop won a game). Lately, however, golf seems to be the only thing. Chuck is looking forward, after graduation, to work in the oil industry.

**RUDOLPH A. SCHINDLER, EE**  
Fleming

Arcadia can proudly boast that it is the home of the world's most profitable race track and Rudy Schindler. They can keep Santa Anita, but we are glad Santa Schindler has switched his allegiance to our fair school. Always the first to eagerly take part in lounge fests and alley riots, Rudy still keeps his professional interest in the Radio Club, IRE, and AIEE. His plans are grad school, but with his many years of interhouse sports and sailing, we hope better things for him.



**FRANKLIN E. SCHROETER, CE**  
Ricketts

Frank, whose greatest claim to fame was a short term position as head of the solar research lab at Ricketts, is a refugee from Kalispell, Montana. Besides startling housewives in Laguna Beach, he also found time to be social vice-president and head waiter for Ricketts, and to join the ASCE. His pastimes in the summer are avoiding work, bear hunting, and fishing. After graduation he intends to make money and get married.

**CURT D. SCHULZE, ME**  
Dabney, T<sup>3</sup>

Originally from San Francisco, where he attended Lincoln High School, Curt is now the fair-haired boy of Burlingame and the ME option. Showing his athletic finesse in intercollegiate track and soccer, he is also a champion in the fraternal sport of skiing. Vice-president of Beavers and a member of IRE and ASME, Curt's future plans include Liz and being a designer.



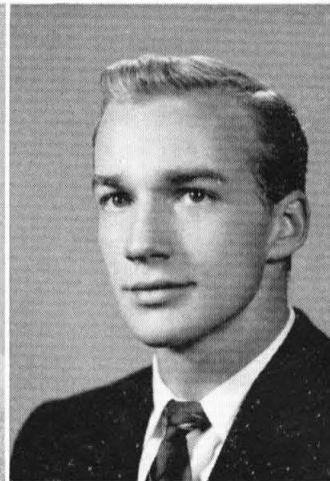
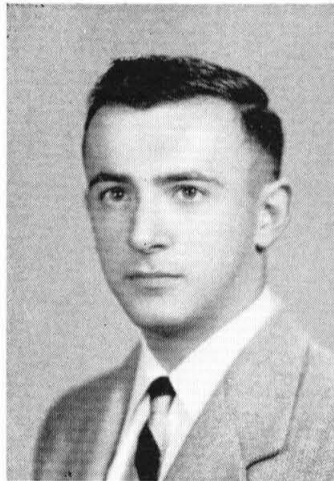
**DONALD J. SELDEEN, EE**  
Dabney

Aside from his main struggles in life, PE and ME 3, Don has settled for a career in electrical engineering or something. In this connection, he became secretary-treasurer of IRE-AIEE. Bowling, bridge and women seem to be his main interests, besides school of course. A home town boy, Los Angeles that is, and graduate of Washington High School, his main plans for the future are related to work.



**TOM G. SLANGER, ACh.**  
Ricketts

It is doubtful that this boy was born with ski poles in his hands, but many seem to think so. Slanger, who comes from somewhere in the depths of Los Angeles, is interested in skiing, photography, skiing, music, and skiing. Evidently enraptured with Mt. Baldy, he plans to come back to Tech for a year of grad work.

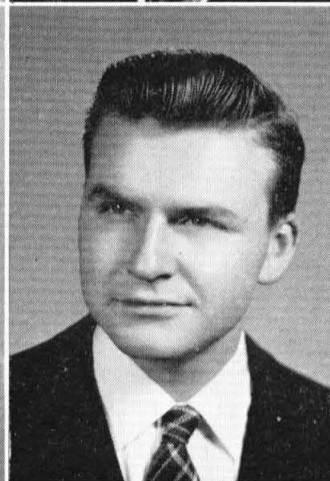
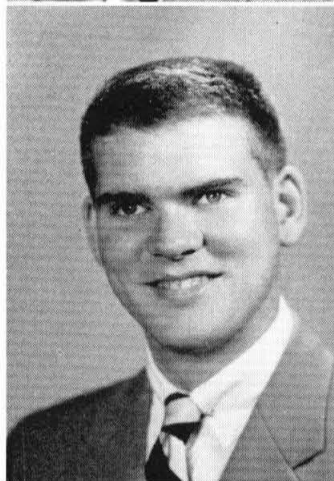


**HUNTINGTON W. SMALL, JR., ME**  
Ricketts, TBII

Blessed with a rare talent for drawing, and fortunately an interest in same, Hunt spent most of his time making campaign posters and illustrating for *Farrago*. The tall blond boy from Santa Barbara was also senior class secretary, a diver for the Tech swimming team, a member of ASME, and through close association with many others, a skier. His plans for the future are uncertain, except that he will be successful.

**RICHARD H. SMALL, EE**  
Dabney

When Dick came to Caltech he didn't have to commute very far from home town Altadena. After an athletic start as a member of the frosh football team, Dick has settled down to the more serious business of working in EE. His spare time has been devoted to his hobbies of photography, hi-fi, skating, and water skiing, and to membership in IRE. Next year Dick plans grad work in electronics at MIT (ugh!).

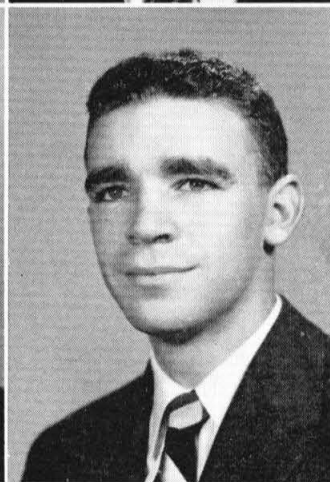
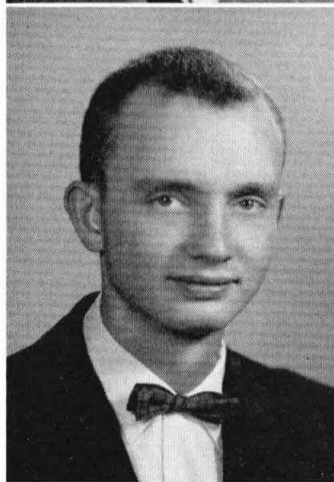


**HENRY H. STAIR, EE**  
Dabney

Pete came here from Las Cruces, New Mexico, to pursue a career in electronics and a girl at Whittier. Finally he couldn't wait any longer, so he got married during Christmas vacation of his senior year. After that he resigned himself to the sedate life, although continuing actively as big wheel in the Glee Club and chairman of the IRE-AIEE student branch. Upon taking that diploma in his grubby little hands he will start working toward his first million.

**JOSEPH K. SWINDT, ME**  
Dabney, T

Tech can thank Webb School of Claremont for this ME. While here, Joe has distinguished himself as an Athenaeum waiter, soccer player, and fly boy on the R.O. drill team. Most of his spare time, however, has been taken up by other non-academic interests: hi-fi, machine design, woodworking, hunting, fishing, and Helen. After picking up that old sheepskin, Joe plans to get married and then work until the draft board calls him.

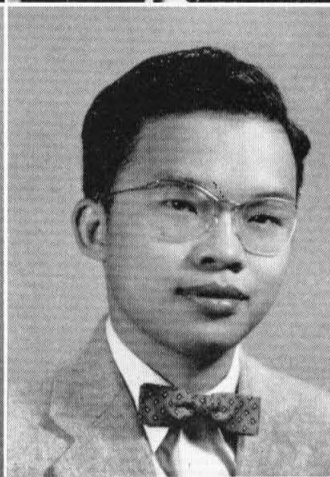
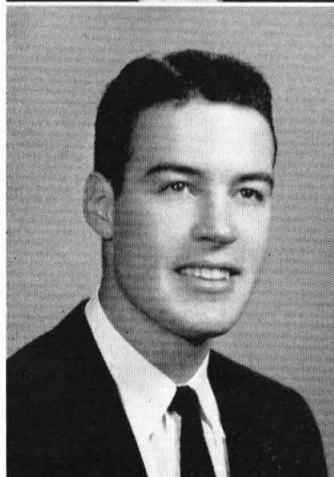


**DAVID A. TANSEY, ACh.**  
Ricketts, T

From Los Angeles, Dave is widely known on campus for his love of student house food, baseball, music, and the great outdoors. This smiling boy belongs to ACS, AAAS, Chem-E Club, and the IFL. Aside from his work on the social committee, Tansey will be long remembered in Ricketts for his historical minutes. His plans oscillate between Army and grad school.

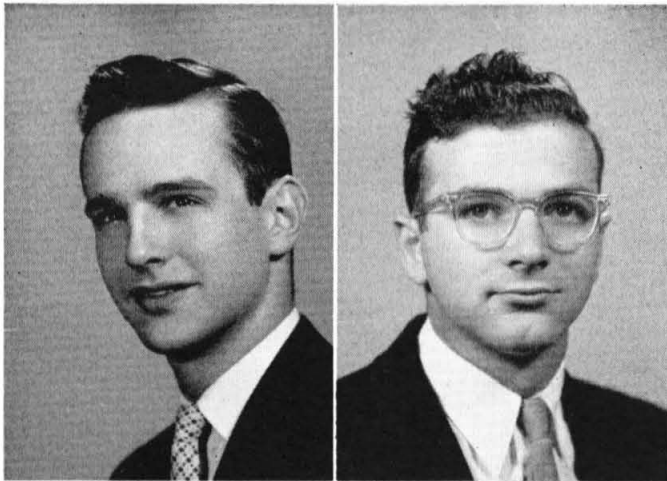
**FREDERICK M. TRAPNELL, JR., Ph.**  
Blacker, Honor Key, T<sup>3</sup>

Coming to Caltech after two years in the USMC, Fritz has certainly proven himself to be one of the outstanding leaders on campus. A three-year letterman and captain in water polo, holder of two ASCIT offices, and an active member of the Sailing Club, Beavers, and Physics Club, Fritz anticipates a career in the electronics field. Of course all this is secondary to that girl at Scripps whom Fritz plans to marry in the near future.



**TRAN N. TRUONG, EE**  
Ricketts

Tran transferred to Tech two years ago, when he heard that Techmen were a pushover at the ping-pong table. (He was champion in '55.) Although it is doubted by some that ping-pong is the major sport in Hue, Viet Nam, from whence came Tran, none doubt that this was where he acquired his skill as a mandolinist. He also is an astute hi-fi fan, and plans to do graduate work, here if possible.

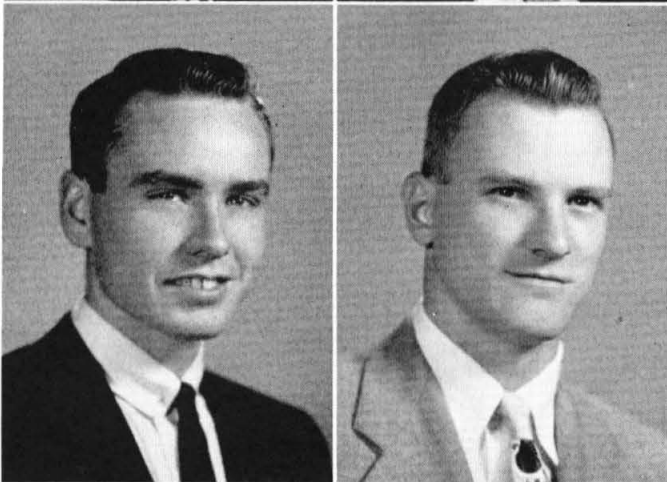


**RICHARD S. VAN DE HOUTEN, EE**  
Ricketts

Dick invaded Caltech from some section of the wilderness in Illinois because he had heard tales about California women. But he spent the majority of his time here at breaking records on the crew team, slowly becoming addicted to hi-fi, and taking overload courses that interested him. He plans grad school in EE and then will make his first million in industry.

**GERALD G. VUREK, EE**  
Fleming

In spite of an education (?) at Acalanes High School, Jerry managed to make it here from Orinda, California (Where's that?), and what's more important, he is getting out with a degree in EE and a love for hi-fi gadgetry. Taking time out from serving as house librarian and working on the Big T, Jerry still has managed to give the secretaries a pretty rough time. His leisurely interests (besides girls) are sailing, square dancing, and just loafing. Jerry plans to learn a little more in grad school, and then earn a little more in the business world.



**RONALD D. WANN, Ph.**  
Ricketts

Contrary to popular belief, Ron wasn't born in a glascot, but in Los Angeles; however, he did manage to spend a considerable amount of time racing with the sailing club. He was also Sailing Club secretary, and active in intramural sports. Like most of the graduating physicists, Ron is a hi-fi addict; he plans to go to work right after graduation.

**RAY J. WEYMANN, Ay.**  
Dabney, TBII, T<sup>3</sup>

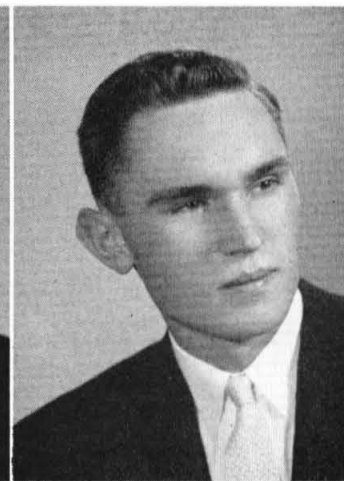
Another local boy from Los Angeles who prepped at Washington High, Ray turned this conference on its ear as a baseball pitcher. A wicked left-hander, he was chosen on the all-conference team and was a winner of the Alumni Trophy in both his sophomore and junior years. Nevertheless he was the top scholar in the astrobiology option and an Honor student for four years. After marriage this summer, Ray plans grad work toward a doctorate at Princeton.

**ROGER A. WILEMAN, EE**  
Blacker, T<sup>2</sup>

A prodigy of Fillmore Union High School in Fillmore, California, Roger spends his weaker moments in the company of nice young ladies or, if none are available, he is not averse to tinkering with audio systems. In four active years Roger has managed to make himself a top-notch track man and athletic manager of Blacker House. After he gets that diploma in his hands, Roger plans to spend some time in Berkeley attending grad school. Eventually, though, it will be a career in the electronics field.

**FRED C. WITTEBORN, Ph.**  
Dabney, T<sup>4</sup>

Fred came to Tech from down the road in Whittier and, like every frosh, entered the physics option. The only difference is, he stuck to it. His main claim to fame is as a staunch, fearless Athenaeum waiter, but he spent his spare time as a distance runner on the track and cross-country squads. Fred plans grad school in high energy physics at Cal, but somewhere along the line the Air Force will take up three years of this fly boy's time.

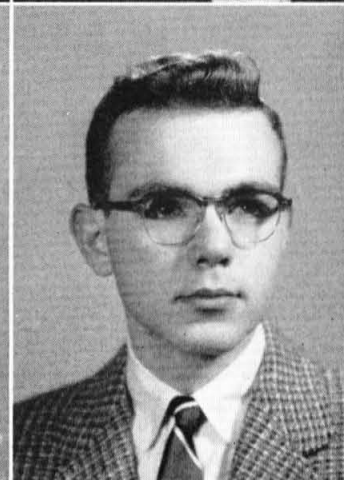


**TETSUO YAMANE, Ch.**  
Ricketts

Happy Tets was born somewhere in the Brazilian jungle, and came to Tech to pursue two hobbies: philately and the collection of old books. He boasts membership in the Brazilian Chemical Society, and the Brazilian Society for the Advancement of Science, as well as the ACS, and the Chemical Society of Japan. After he gets his Ph.D. here at Tech, he will retire to the jungle to collect stamps.

**JOHN E. YOUNG, Ch.**  
Blacker, TBII

This talented chemist came to Tech from Casper, Wyoming. While here he has kept himself busy by writing for the California Tech, winning the Conger Prize in Oratory, by participating in intercollegiate debate, and serving as Blacker and ASCIT treasurer (not at the same time). On top of all this, John has been elected to Tau Beta. Much of John's time was spent in helping to make the Leaders of America program a rousing success, and with this background he proposes to study law at Harvard next year.





**DWIGHT L. DENNIS, ME**  
Fleming

All the way from Kentland, Indiana, in his flashy Olds comes "Dennis the Menace," the second "olde manne" of Fleming. Wise in the ways of the world (thanks to the Navy), Dwight is always ready to lend a sage word of advice or encouragement to the younger boys. He also distinguishes himself as the only house man with an orange sport coat. Dwight has been active in the SAE, IAS, and ASME, and his future plans are "to try and help build a better tomorrow for the world of today, however small the contribution may be."

After a senior's name comes his option, then the house with which he is affiliated. TBII denotes that he was elected a member of that organization; "Honor Key" means he received one or more Honor Keys in his years at Tech, not necessarily his senior year. T denotes that the senior won a Varsity Letter and the exponent is the total number of letters won, regardless of the number of years or the number of sports.

## seniors not pictured

**NORMAN W. ALBRIGHT, Ph.**  
Off Campus

A local boy from Los Angeles, Norm promptly decided to cool this school. A member of the freshman Honor section, he is famous for writing Ch. I exams on one side of one page in one blue book. Leading a quiet life as a sometimes social member of Dabney House, Norm looks forward to more studying in grad school.

**ARLEN W. BELL, CE**  
Throop

Another of San Gabriel's gifts to Tech, Arlen has crammed civil engineering and AFROTC into his four years here. An ASCE stalwart, Bell says he is interested in cars and studying. Nonetheless, a rumor that women are not evil can be traced to him. Throop Club has taken up some of his time, but this outdoorsman would rather go hiking or fishing. The Air Force has Arlen hooked for three years after graduation, but eventually he wants to make his money in structural engineering.

**DONALD C. BROOKS, EE**  
Off Campus

Graduating from Poly High in L.A., Don is looking forward to a career in engineering. His big interest is applying EE to other branches of engineering, and after graduation he is going to do some hydraulic systems analysis and design. An off-campus man, Brooks is the proud father of a baby daughter, a diversion of both time and energy for a conscientious Tech man.

**GERALD W. FREEMAN, Ge.**  
Dabney

Although more renowned for activities outside the realm of school, Jerry nevertheless found time enough for geology. His first years on campus were spent actively with the debate squad, interhouse sports, and related house activities. After spending a year in Alaska, Jerry came back to Tech last year. Now living off campus, Jerry has broadened his interests to include selling and . . . He plans grad school at UCLA, with mining work following in the future.

**JAMES G. GIRARD, Ach.**  
Blacker

Jim hails from Phoenix, where he graduated from West Phoenix High. He likes his chemistry with a bit of salt spray, wind, and a light chop thrown in, so his activities have centered chiefly in the Chem-E Club, the Sailing Club, and ACS. Other than that, he takes an interest in reading, bridge, and women. His future depends to a large extent on Uncle Sam's plans for him, but Jim is thinking of letting some grad school have his talents for a while.

**THOMAS L. GUNN, EE**  
Blacker

Tom is another electrical engineer, and he plans to continue his studies next year to get his M.S. He is a member of Blacker House and lists his home town as Falls City, Nebraska. Tom wrote for the literary magazine and for *California Tech*, participated in the Drama Club, and like all good EE's, belongs to IRE. When asked to enumerate his chief interests in life, Tom enthusiastically begins and ends the list with his all-absorbing interest in "cultured young ladies."

**JAMES R. LLOYD, ME**  
Throop, Honor Key, TBII, T<sup>3</sup>

One of Tech's gifts to the birds, Jim has spent his little extra time of late either in the clouds or with model airplanes. Hailing from Glendale, this ME has led a very active life as an undergrad. Throop Club saw his services as athletic manager and twice as vice-president. Jim has also been a standout pole vaulter for Tech track squads. As a member of the Beavers, ASME, and Tau Beta Pi, Lloyd has shown his true versatility. He plans to remain at Tech for graduate work.

**COLLIS H. HOLLADAY, JR., ME**  
Fleming

With the very limited field of endeavor of "automobiles, sports, and sex," this San Marino lad became SAE treasurer to provide funds to pursue his first love—his Ford. After playing football, basketball, and baseball for Tech, he retired to become Fleming athletic manager, letting others sweat while he reaped the glory. But it was in his third interest that he shone brightest, as secular head of the house organization which awarded trophies and supervised morals. With his three goals in mind, Hunt plans to make his way in the big, bad world.

**CARVER A. MEAD, EE**  
Off Campus

Big Creek, California, was the location of this ham's shack before he invaded Tech. With Fresno High behind him, he came here to continue his extracurricular activities in amateur radio and outdoor sports. Carver promptly won a frosh numeral in baseball, and he was a big help on the Blacker interhouse teams before he married and moved off campus. In addition to joining IRE, he has settled down to the more serious task of working and staying in school, disproving the old adage that anyone who knows electronics cold has a hard time with the EE option. Carver anticipates more graduate schooling and hard work in the future.

**ROLLAND G. MOODY, ME**  
Fleming, T<sup>3</sup>

One little, two little, three little Moodys (one of them Mrs.)—all come out to see "daddy" play basketball. Rolland is one of our last four-year lettermen in basketball. He also contributed to our tennis team. Besides sports, Rolland is interested in machine design and belongs to the ASME. "Automation" he lists as future plans. With two kids, he's on the way.

**CHARLES A. NORMAN, Ge.**  
Fleming, T<sup>3</sup>

Old age and a touch of the rheumatics failed to stay Granpa Norman from glory on the baseball field and the gridiron. Chuck came up from San Diego in '46 and an extended tour as a dogee temporarily halted the rockpicking so dear to his heart. The old rascal plans to work after graduation (for him a highly reactionary idea). Chuck is the winner of a certain house trophy which is proof against those rumors of senility you've heard.

**ROBERT V. SHARP, Ge.**  
Ricketts

Bob Sharp (the Bob Sharp of Redondo Beach) led a rather obscure life on campus, and lists as his major extracurricular activity "going to lunch." He is a member of the Geology Club, and of the East Glendale Garden Society, bless his horticultural bones. He plans to leave school after graduation.

**WILLIAM SPENCE, Ma.**  
Blacker

This wizard mathematician comes from Culver City, California. Even before coming to Tech he demonstrated that he could always win the first place on Stanford and LACC mathematics tests and physics competitive tests. This quiet looking but passionate fellow spent much time working here at Tech to gain money to spend lavishly on women. On top of this, Bill was manager of the dancing class, a member of the Sailing Club, and in Honor standing not infrequently. Bill wants to take up grad work in physics at either Berkeley or UCLA.

**RAFN STEFANSSON, EE**  
Fleming, T<sup>2</sup>

Reykjavik (sic), the capital of Iceland, produces good three-year varsity soccer players as well as Iceland Cod if Rafn is any indication. When the student houses served Iceland Cod many weeks in a row, we blamed him for paying his tuition in the wrong currency. Besides interhouse sports, Rafn spreads his cheery manner around as photographer for the *Big T*, and has chess and wood and metal working as hobbies. Also he claims traveling is fun, especially if to San Berdoos to see a girl. He hopes for one year of grad school before "getting out of the smog area and back to some fresh air (Iceland?)."

**JOHN C. VARADY, JR., Ma.**  
Ricketts

A misplaced mathematician from the University of Chicago, John now resides in Pasadena. Philosophy, sociology, and classical music are John's biggest interests, and his feat of retaining such while spending three years at Tech is something to be remembered. He plans to delve into the philosophy of science, or into operations research after graduation.

**CHARLES E. WHEATLEY, III, Ph.**  
Ricketts

Chuck is from Burbank and he came to Tech when he heard that Athenaem waiters got fabulous salaries. It took him three years to find out they didn't, and by that time he had developed other interests, so he stayed to graduate. The other interests were interhouse sports, music, women, physics, and surfing. He plans to go to grad school for a year before going to work, but who knows what interests this might develop.

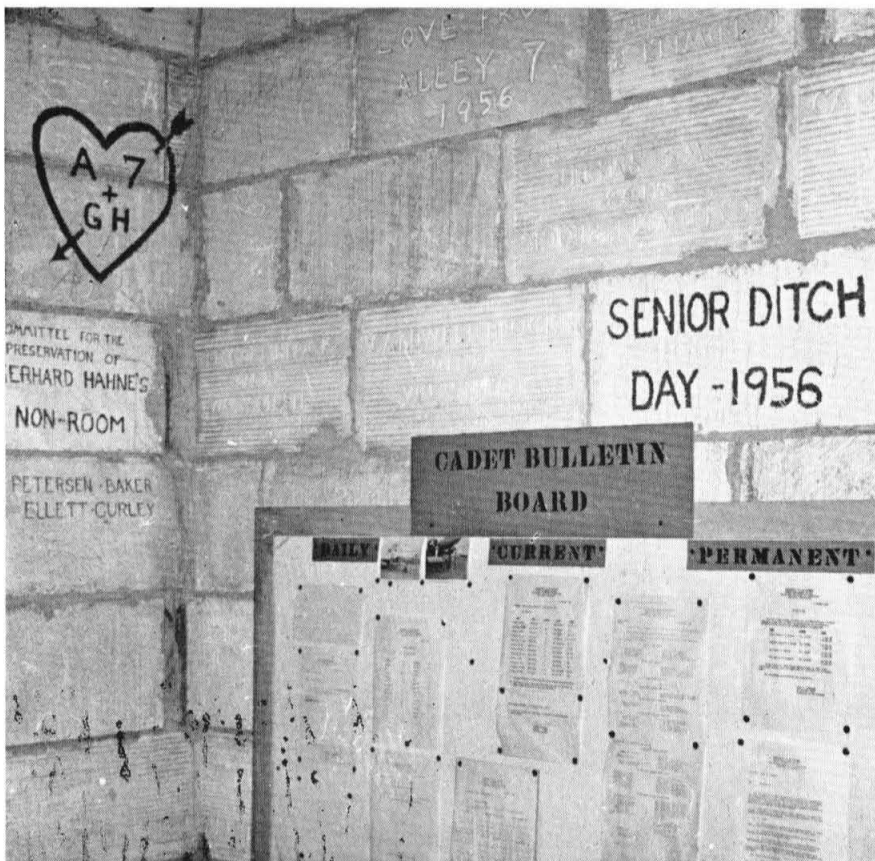


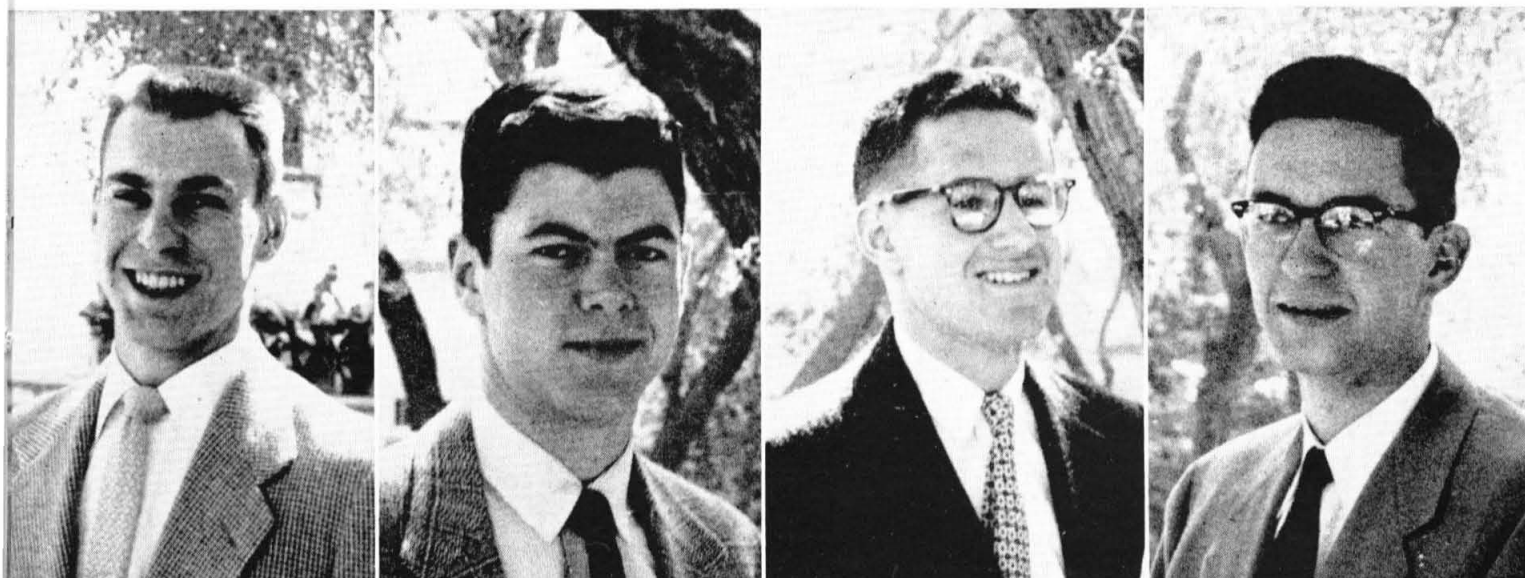


Howard Bloomberg  
President

## *juniors*

Juniors, and everybody else too, celebrated Senior Ditch Day on April 30.





Dick Smisek  
Vice-President

Bill Hecht  
Secretary

Gene Barston  
Treasurer

Doug Ritchie  
Social Chairman

Howard Rumsey and Bob Gelber  
Board of Control



Fully realizing their responsibility as upperclassmen, the juniors spent their first rotation-free week end lolling in the sun at Playa del Rey. Social chairman Doug Ritchie's beach party was eminently successful, and his zeal sparked prexy Howie Bloomberg to furious activity. This energy, and the close cooperation of such officers as secretary Bill Hecht and treasurer Gene Barston, culminated in a second-term snow party in the congenial atmosphere of Howard Marshall's beautiful mountain home at Lake Arrowhead. Further evidence of the organizational ability of this group was found in the junior-senior prom, held at the Huntington-Sheraton April 28, and highlighted by the Dave Pell Octet, famous jazzmen.

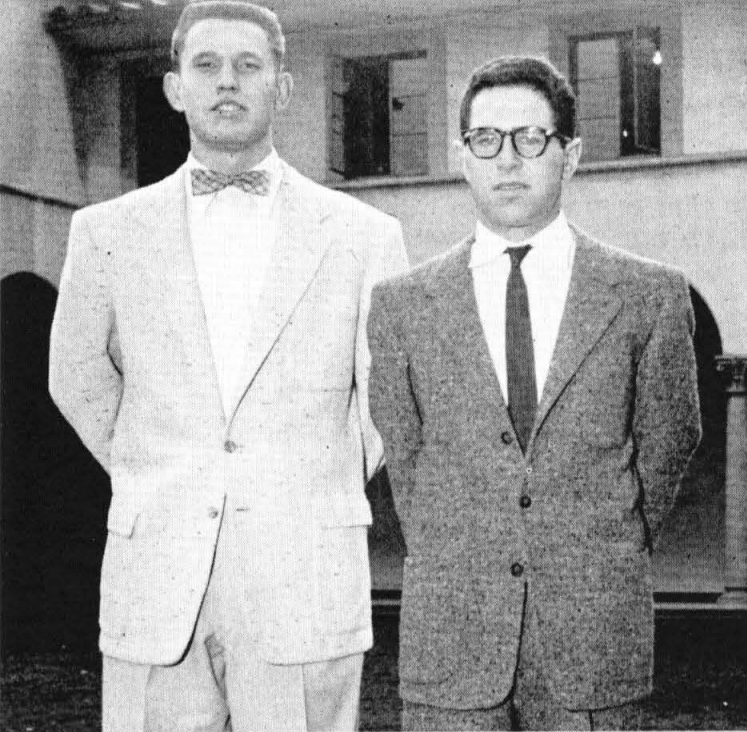
The mudeo was run off in traditional fashion under the direction of Larry Griffith, athletic manager. The judges were vice-president Dick Smisek, Herbie Rauch, Roy Stake, and of course, Alfie. Someone must have forgotten to tell the frosh about the traditions for they went out and scored a double victory. First they won the mudeo 4-3 from the sophomores, and then thoroughly muddified **all** the judges (especially Smisek).

While all this recreational activity was taking place, the juniors showed that they could also solve the problems of everyday existence, such as En7 papers, EE reports, and 106 homework. The political aspirants became suddenly aware of such problems as overcrowding in the student houses, and how to campaign while still getting in a little studying.

Thus passed another lap in the academic four-minute mile known as Caltech; thoroughly enjoyed but—ain't summer nice!

Jerry Peck





Dave Leeson  
President

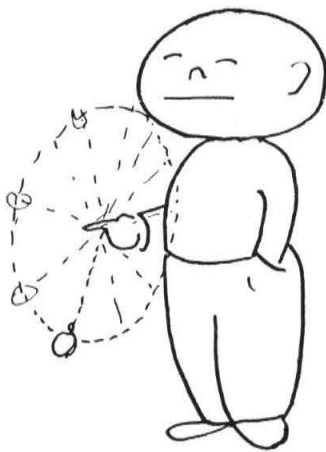
Dick Baron  
Vice-President

## *sophomores*

Under the competent leadership of President Dave Leeson, the Sophomore Class has taken Tech in stride in all phases of campus activity. After a rather unfortunate mudeo (for the sophs!), all hard feelings were patched up with the booming success of the first annual frosh-soph picnic. With the treasury depleted but not empty, and with enthusiasm running high, co-social chairmen Pete Hoag and Bud Penquite are promising a great social event in the frosh-soph dance. Some of the sophs are even predicting that next year's brand new recruits may again emerge muddy but victorious in the mudeo. Beware, freshmen!

Other officers who led the class of '58 in their activities this year include Dick Baron, vice-president; Zack Martin, who kept the minutes; Gene Cordes, who didn't keep the money; and athletic manager Ed Krehbiel. Sophomore representatives on the Board of Control were Dick Kirk and "Herbie" Nelson.

Perhaps no other class took such an active part in Tech's athletic program as did the sophomores. Football found Don Stocking the All-Conference choice for halfback. Other grid-iron stalwarts of the class were Ed Krehbiel, Dick Van Kirk,



Sonney Nelson and Dick Kirk  
Board of Control





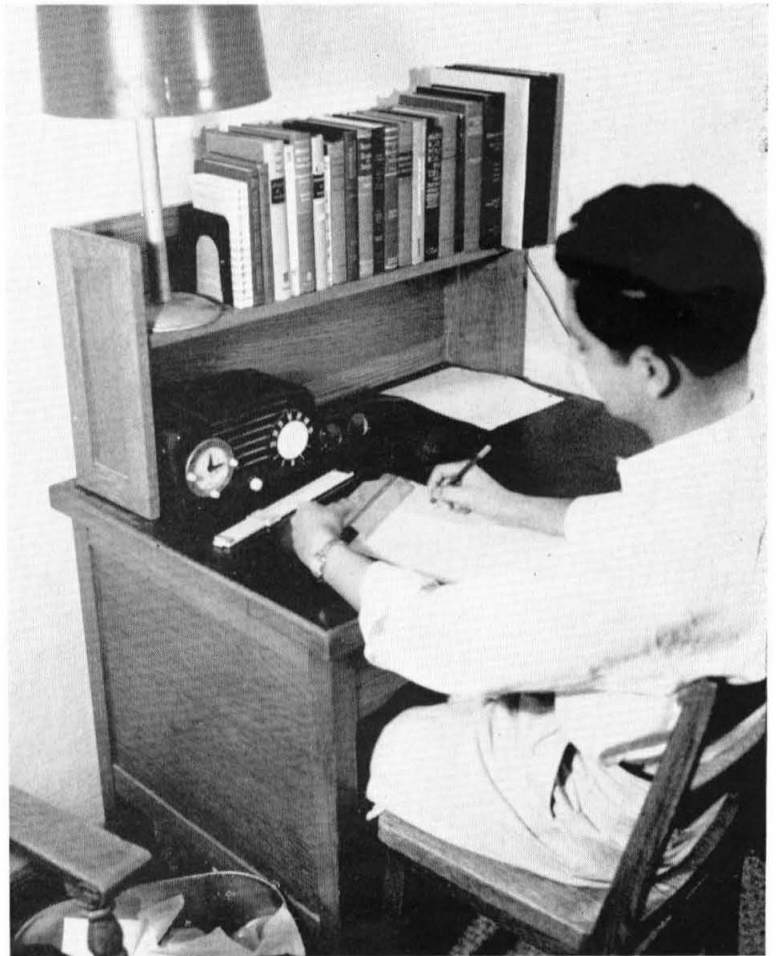
LEFT TO RIGHT: Ed Krehbiel (Ath. Mgr.), Bud Penquite (Co-Soc. Chair.), Zack Martin (Sec.), Pete Hoag (Co-Soc. Chair.), Gene Cordes (Treas.).

Larry Berry and many others. With all of these men who have two more years left to play, "Bert" LaBrucherie is smiling as he never smiled before. Basketball also found the sophs well represented. Glenn Converse, Sonny Nelson, Dick Van Kirk, Don Wiberg, and Kay Sugahara all gave support to the cage team. A quick visit to the track will convince anyone that the sophomores are even more enthusiastic about track and field. It appears that Tech's athletic fortunes may well be on the upswing.

ASCIT elections found a grand total of seven budding sophomore politicians seeking offices in the student government. In keeping with the other successes of the year, four men were elected. Dave Leeson, Dick Kirk, and Glenn Converse will all appear on the new Board of Directors.

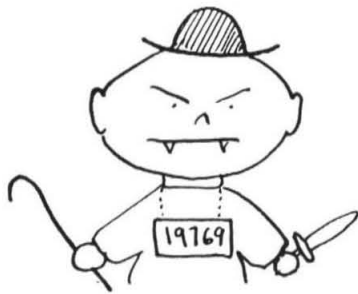
Having completed a brilliant year as sophomores, we look forward with keen anticipation to further success as next year's junior class.

Gene Cordes





LEFT TO RIGHT: George Logemann (Treas.), Neal deGaston (Sec.), Clint Frasier (B.O.C.), Brent Banta (Ath. Mgr.), Bob Huebotter (B.O.C.), Bob Ingram (Pres.).



## *freshmen*

The Class of '59 has made its entrance at Tech and has left a great year behind it. The spirit of this group has led it to many successes.

Much to the surprise of the sophomores, the frosh ran away with the mudeo. Although at the beginning of the events the class fell behind, they rallied in the tire spree and took the win, a fine way to start a year.

The class participated widely in intercollegiate athletics. The water polo and soccer teams were supported in large numbers, along with the frosh teams of football, basketball, track, and baseball. Unfortunately these teams did not have very successful seasons when looked at from the win-loss ratio.

Something new in athletics was begun this year. An intersection trophy was established, and it has been passed around from section to section under rules much like those of interhouse athletics. This new idea has contributed greatly to the unity of the sections and class.

ASCIT elections saw ten frosh in the running. Equally wide participation was shown in the class elections.

A small but cheery band of workers tramped off to mountains to give the "T" its annual shave and trim. The old tradition of the '20's was begun again by embedding a concrete marker with the class numerals on it.

The freshmen got off to a fast start for their four years at Tech and are intent on making the Class of '59 a truly great class.

Bob Lang



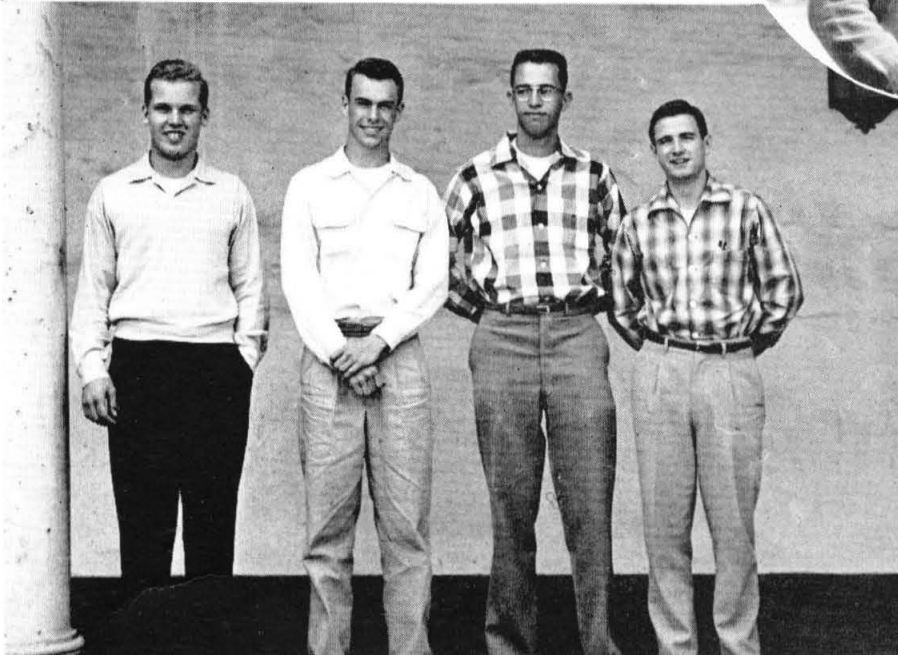
The Class of 1959—Most of these boys were expecting rain, or at least water, but fortunately the sky remained clear.

Bob Ingram  
President

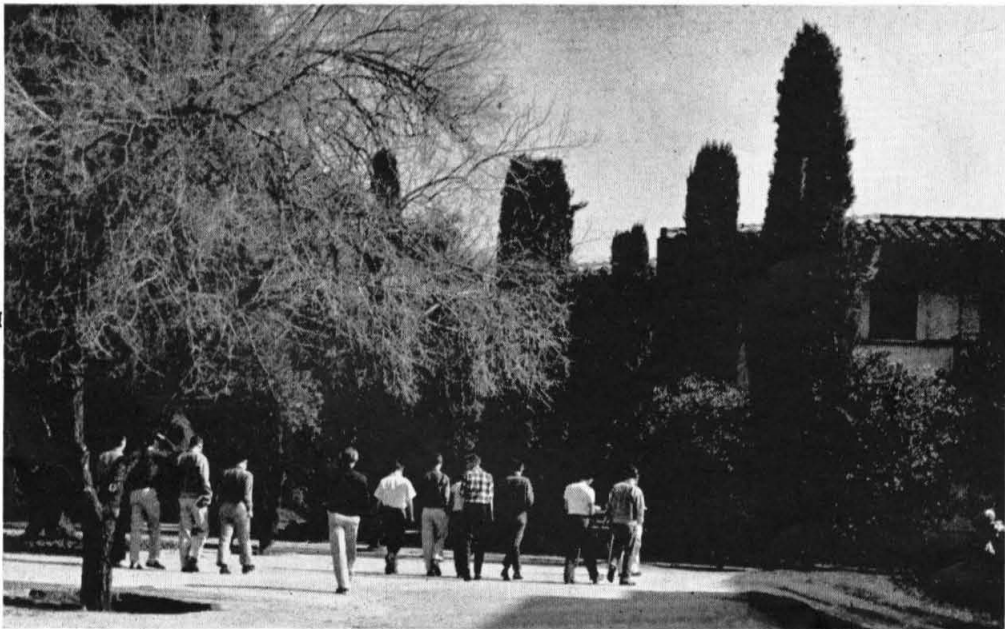


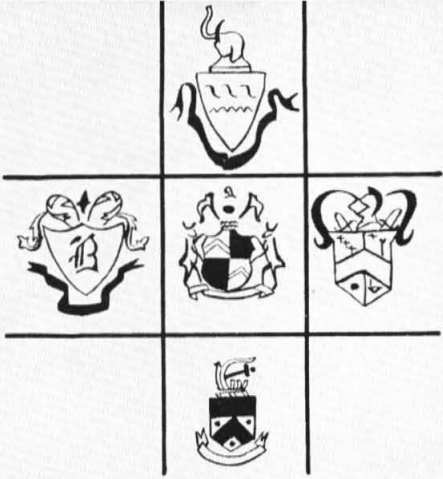
LEFT TO RIGHT: Russ Pitzer, Vice-President; Neal deGaston, Secretary;  
Frank Childs, Treasurer; Brent Banta, Athletic Manager.

Doug Carmichael and Bill McClure  
Board of Control

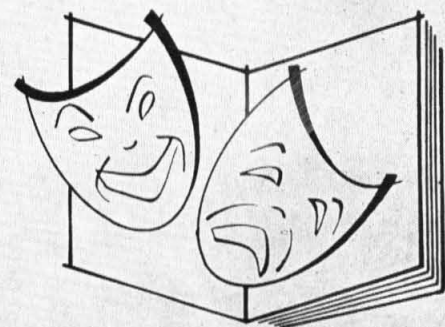
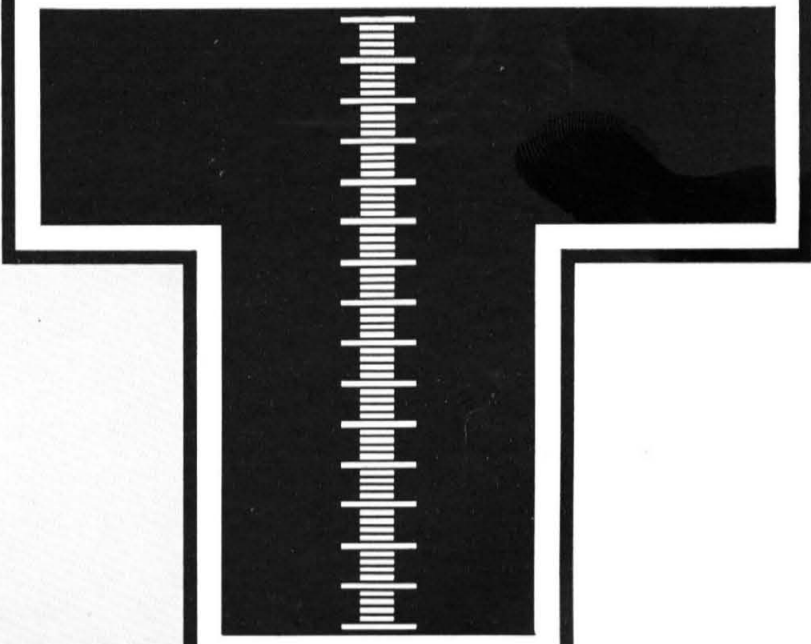
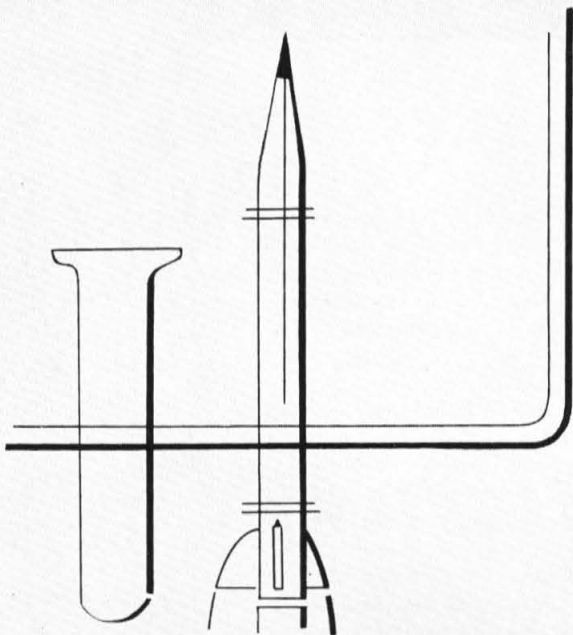








*houses*



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Myron Black  
President



LEFT TO RIGHT: Fritz Benning, Bob Deffeyes, George Hall, Jon Harford, John Velman, Roger Wileman, Bruce Blackie, Joe Lingerfelt, Myron White, John Carney.

The year in Blacker was off to a rollicking start when the fortunate frosh who joined the house were treated to the rare pleasure of initiation by the two fiendish pledgemasters, John Young and Don Stern. After being subjected to this inhuman torture for five days, the frosh successfully revolted and gave the deserving pledgemasters their traditional showers. According to the Dean's Office, this was the neatest frosh class to hit Tech yet, and signs of frosh spirit began to show that Blacker had received its share of the active frosh. After the first couple of weeks, when things quieted down, the frosh really found out what life at Tech is like, and maybe even got a chance to do some snaking—before interhouse time hit.

This year's Interhouse Dance, masterminded by social chairmen Jon Harford, George Hall, and John Velman, was by far the most spectacular yet. A huge replica of an old sternwheeler, the Vernon L. Sternfurst, stretched out its forty-three feet to almost fill the courtyard completely. By acclamation Mrs. Joan Mayhew was made the honorary captain of the boat. The courtyard had been transformed for the evening into a river boat landing in a small town on the Mississippi, complete with water. Upon leaving the gangplank of the ship, one passed by a cargo chute and several little shops until you entered the casino, the scene of the dance. On the stage at one end of the lounge was Dick Cathcart's band, famous for its Dixieland music such as Pete Kelly's Big Seven in the movie "Pete Kelly's Blues." At the other end of the room was the bar backed by a wall of mirrors. Above this, there were balconies and chandeliers to add to the effect. Although each house claimed its decorations were the best, the truth was that Blacker's '55 Interhouse **was** the greatest ever.

President Myron Black continued to lead the house in a spirited fashion and under his guidance the house continued its fine traditions. This was not accomplished, however, without close cooperation of all of the other house officers. Foremost among these was the dynamic vice-president Fritz Benning, who presided over a strong and active



Upperclass Committee. Bruce Blackie did an especially effective job as secretary, and Bob Deffeyes kept his hands on the house's money as treasurer. The frosh were kept in line throughout the year by "big sister" John Carney, librarian.

Blacker's new R.A., Ted Flinn, brought a new surge of enthusiasm to the position and made it become increasingly important in all house matters. His experienced advice during frosh rotation was invaluable.

Athletic managers Roger Wileman and Joe Lingerfelt upheld the spirit and philosophy towards sports in Blacker and saw the tennis team, captained by Al Poisner, grab first place in Interhouse. The Discobolus was constantly being challenged, and by the end of second term Blacker had a decisive lead in the race for trophy points. This year the Interhouse Sports trophy resided on the Blacker mantel. Alongside of this was the recognition of accomplishment in another field—the Goldsworthy snake trophy.

John Young as ASCIT treasurer and Jon Harford as ASCIT first rep ably represented the house in campus politics, while Chuck Bodeen presided over the Caltech Y.

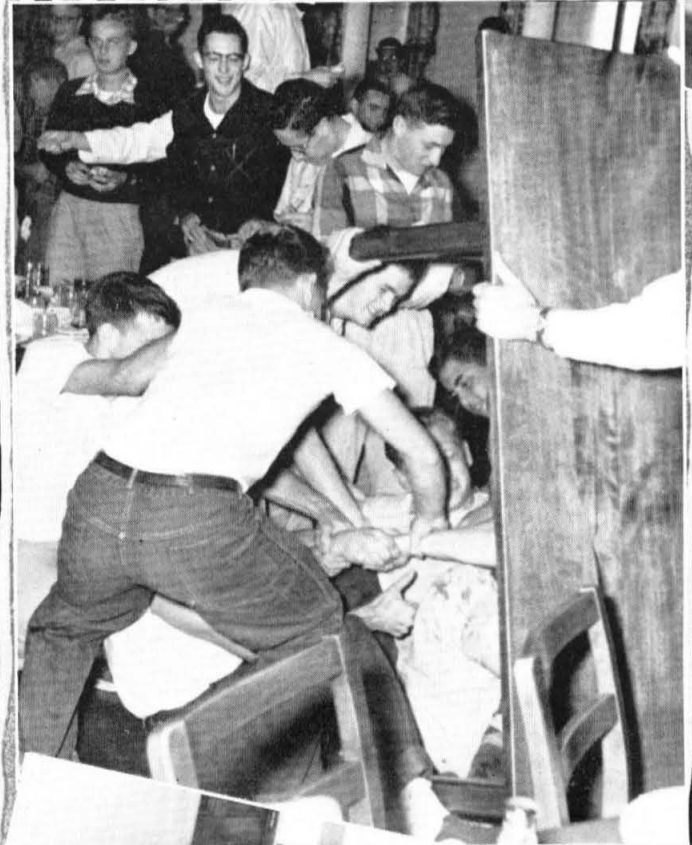
The Blacker social program rolled along more successfully than ever under the leadership of the triumvirate and started the year off with an exchange with San Marino (They **were** queens!). In this line, the Glendale exchange second term provided even more of a surprise when Blackerman Ken Laws and his quintet showed up unexpectedly to play for the dance. Of the big successes of the year, the "Doc's Party" was one of the most outstanding. It was an informal gathering at which the couples played games and listened to stories told by Harvey "Doc" Eagleson of the Tech Humanities Division. Doc Eagleson repeated his success of last year at the Haunted House Party. Doc is especially fond of Blacker, having served as its R.A. from 1931 to 1945, and is responsible for the names of Upper and Lower Doc's alleys. Besides the snow party and the decoration dances, the highlight of second term's social calendar was the "Communist Party," which featured a heated speech by comrade M. Bleikov.

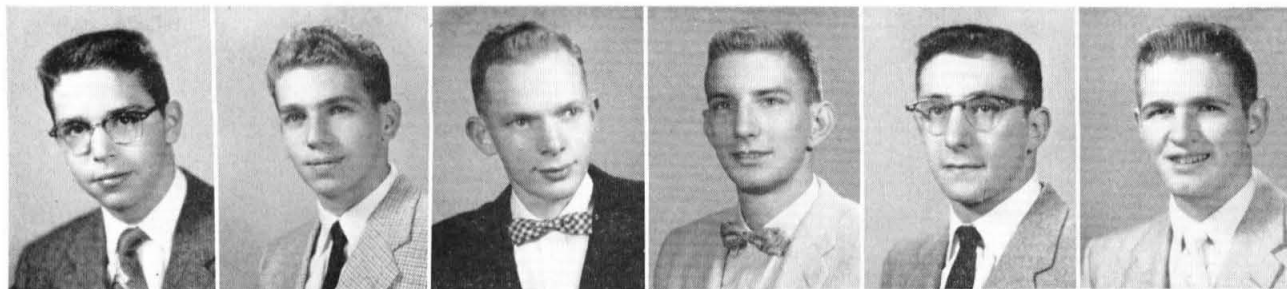
Unfortunately the house lost its spiritual leader, Henry Phipps, after first term but he was not lost from memory as Ted Flinn inaugurated the "Henry R. Phipps Memorial Volleyball Trophy" and presented it to two-man champs Don Stern and Ger Lawrence. After a brief unsuccessful attempt to usurp the powers of the Pope, Kelley was ousted in the official house elections when Danny Horowitz (How many of youse guys don't give a ----?) was elected.

Don Stern was mainly responsible for the revival of interest in volleyball in the house second term and the triumphant sophomores wiped out the three other classes in a show of superiority. By the end of the term a tournament was all set up for a series of interalley games.

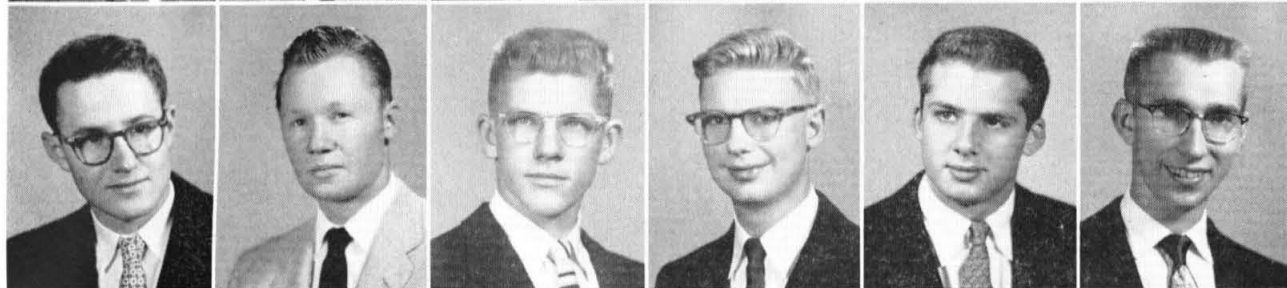
Another indication of house spirit was revealed second term when the informal song sessions in the lounge after dinner began to become a habit.

As second term drew to a close, the all-important house elections were held and resulted in hard-fought campaigns and many a close race. In the bid for house president, Mike Bleicher waged a successful

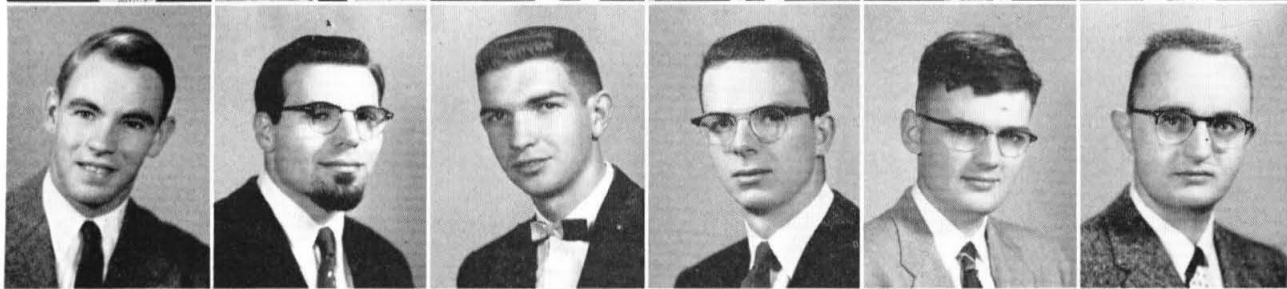




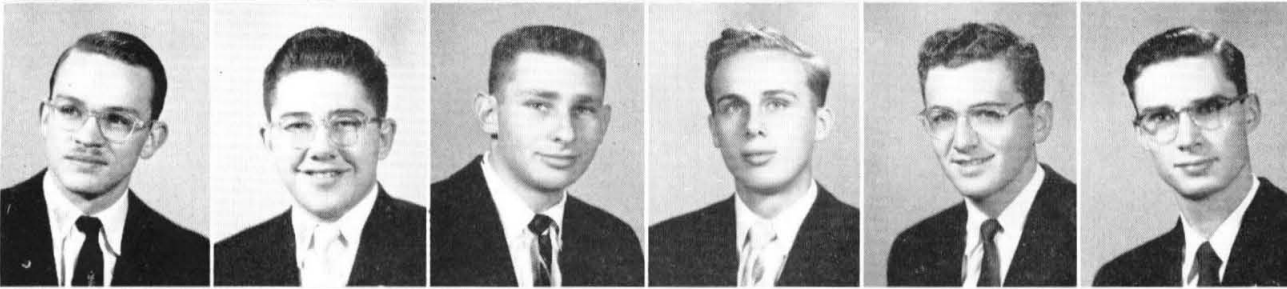
Ken Adams  
Gus Akselrod  
Harold Almond  
Jan Arps  
Wally Baer  
Gordon Baird



Gene Barston  
Clark Bell  
Fritz Benning  
Myron Black  
Bruce Blackie  
Bob Blackeley



Bob Blandford  
Mike Bleicher  
Don Bonewitz  
John Carney  
Clark Carroll  
Bill Chapple



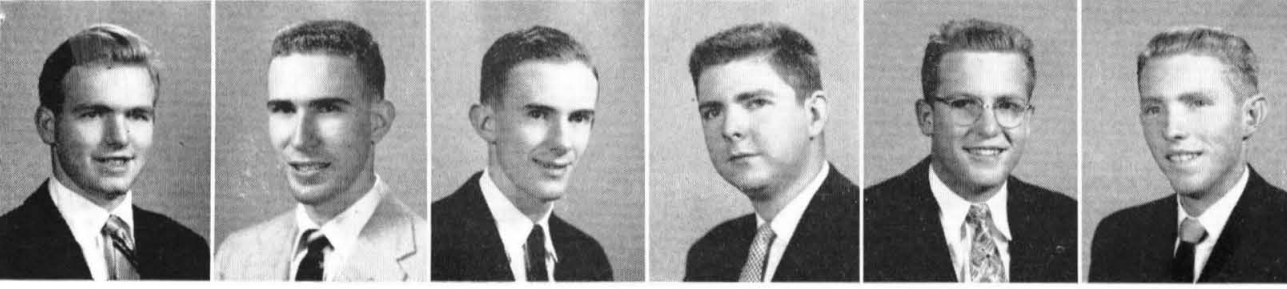
Forrest Cleveland  
Joe Cointment  
Jim Cowan  
Dick Cowley  
Bob Deffeyes  
Bill Dietrich



Ken Dinwiddie  
Larry Elmore  
Jim Espenson  
Al Farley  
Barry Feinberg  
Jerry Fried



Dave Gardner  
Joe Gibbs  
Gordon Giattenberg  
Stuart Goff  
Al Goldberg  
Mark Goldenberg



George Hall  
Dave Handel  
Jerry Hanson  
Jon Harford  
Tim Harrington  
Buddy Jensen



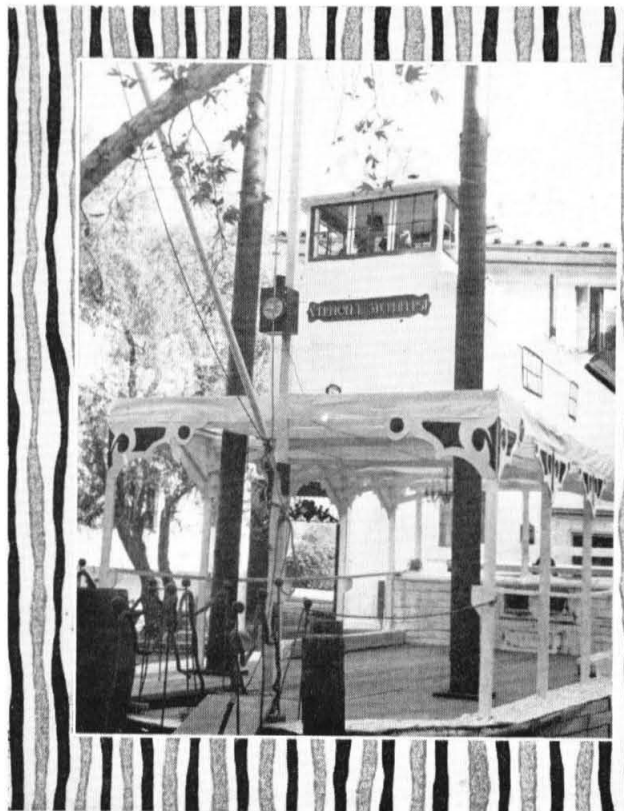
campaign and took over the duties of the chief executive. Bruce Blackie became vice-president, taking over the reins from Fritz Benning. Again the house chose a threesome for its social chairmen: Dick Stark, Steve Stevens, and John Conover—all pledging to maintain and improve the house's social side. The race for treasurer this year was among no less than six candidates, of whom Al Farley was successful. Wally Baer was chosen as secretary, and Gus Akselrod became the new house librarian.

Climaxing a bitter struggle against Pogo, Ger Lawrence was ultimately successful in being chosen as K. of C. In the race for the illustrious office of HHA, Fritz Benning and John Young went down to defeat before the infinitely more qualified Gordon Reiter.

Third term brought the usual trips to the beach and relaxation, and a sigh of relief from most of the seniors. The Annual Associates Tea was a very impressive affair, especially for the freshmen, who really got to meet the faculty members for the first time informally. Blacker's regular associate's program continued to bring interesting campus personalities to the house for dinner and many an engrossing discussion followed the meal.

Tech ingenuity was called upon once more during the third term for the annual senior ditch day. While the seniors, thinking that no one was aware of their plans, spent the day at the beach or in some other dissipation, the underclassmen were busily at work sealing up doors and alleys and rearranging the seniors' abodes.

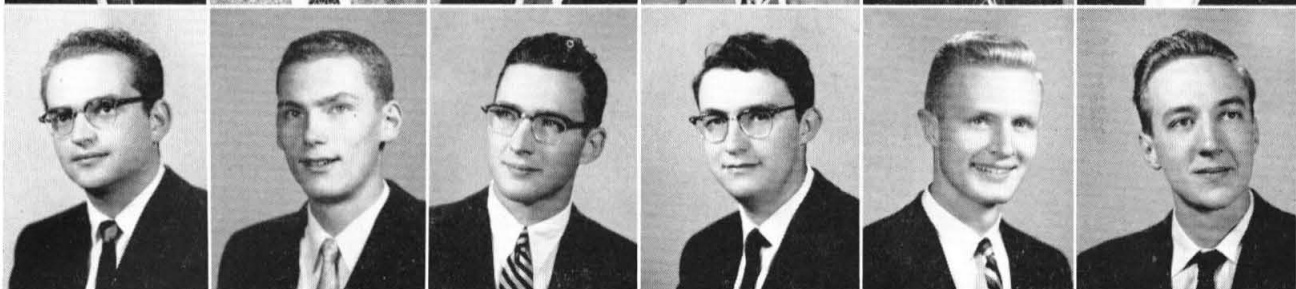
Hardest hit on ditch day, among the venerable Blacker seniors, were roommates Fritz Benning and HHA Gordon Rieter, who on return from a pleasant, though burning day at the beach came back to discover their room, filled with a network of wire and toilet paper, well hidden behind a wall of paper.







Bill Kern



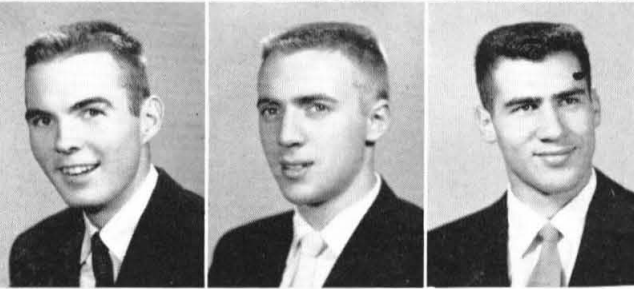
Jerry Keisler  
Don McAllister



Athur Kamii  
Kim Malville  
Charles Mosher



Mauritz Kallerud  
Jim Lovelady  
Tom Morton  
Al Poisner



Bob Johnstone  
Ken Laws  
Pete Moretti  
Don Pinkerton  
Galen Sarno



Walt Johnson  
Pete Lauritzen  
Bill McLaughlin  
Henry Phipps  
Don Reiterman  
Ken Scholtz



Eric Johnson  
Jerry Klaz  
Del McCune  
Bruce Nevelli  
Gordon Reiter  
Reed Saunders  
Steve Schwarz

# *black*er



John (vote for Adlai) Young was another among the more suffering; he returned only to find that even in the most hidden corners of his room he could not evade smiling pictures and the word "Ike." These are but a few of the diabolically ingenious plots hatched by ingenious Blackermen to give the seniors a last fond remembrance on ditch day.

Third term social program went into full swing with the new chairmen presenting a varied social program which featured the annual Spring Formal Dinner Dance with its sizzling steaks and moonlight dancing in the courtyard, not to mention the traditional casino party with the wheels spinning, dice rolling and chips flying. And on the more macabre side, to satisfy the occultists in the house, an eerie Bridie Murphy party was held.

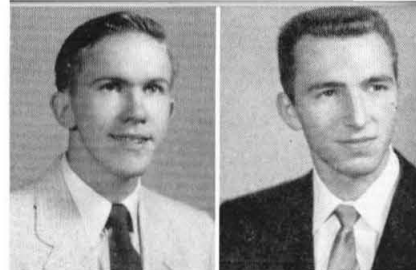
Despite this wealth of activities, the Blacker athletes were not to be outdone. Third term brought to an end the hard-fought battle for championship in the interalley volleyball tournament; with the top honors going to occupants of the "tunnel."

The practical businessmen of the house had their share in planning the third term's activities when, for the benefit of the seniors with a four-year accumulation of junk in their room, an auction was arranged in the courtyard. With Jon Harford as an able auctioneer, fantastic prices were brought in for articles varying from old suits to a box of stale cigars.

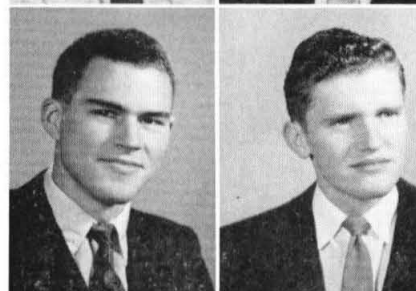
With '55-'56 going into Blacker history as a successful and important year, Blackermen shed a tear for the departing seniors, but look forward to '56-'57 when, with new leaders and a new class, Blacker will continue to be the top house on campus.

Al Farley

Jim Short  
Chuck Smith



Walt Specht  
Dick Stark



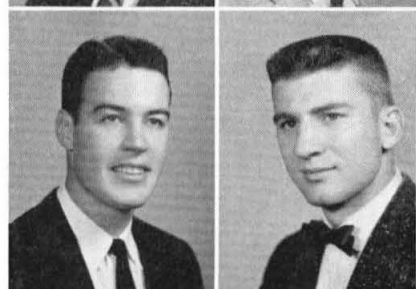
Don Stern  
Chuck Stone



Mike Talcott  
Dave Teal



Fritz Trapnell  
John Velman



Read Warriner  
Allien Whitsett



Len Wiener  
Roger Wileman



John Young  
Chuck Bodeen



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FIRST ROW, left to right: Pete Hoag, Dick Kirk, Bill Purves, Hal Dale. SECOND ROW: Ed Berry, Don Russell, Curt Schulze, Andy Perga, Pete Abbey, Bob Jetter.



Louis Fletcher  
President

Along came September and the Darbs began to trickle back into Pasadena to start another school year of rioting, roistering, and romancing. Right off the bat there were lots of things to be straightened out, since the house was handicapped by the loss of its president, Ted Johnson. Louis Fletcher, former vice-president, stepped in to take over and with the whole house behind him began to work things out. The men in the house got together, learned what jobs had to be done and then set about to do them.

Rotation problems were ironed out down in the "Bowling Alley," and we ended up with a lively, enthusiastic bunch of frosh eager to start experiencing college life. Right away Dick Kirk and the rest of the sophomores undertook to show the frosh the more serious side of the Techman's life. Between water fights with Fleming and putt-putting around the courtyard on their "motorcycles," the "patrolmen" managed to get their assignments done: Joe Jurca accumulated a small fortune (19 jacks, and 9c) while inducing three adults to play jacks with him on Colorado Boulevard; Doug Christman nearly got trampled to death by a woman the first time he stopped a Pacific Electric bus to tie his shoe on the doorstep, while Don Owings and Gary Schmidt were busy chasing the B&G guard around Guggenheim trying to do him in with their "tommy guns." At the end of the initiation the frosh attempted their usual rebellion with the usual results.

After initiation was over and the freshmen had been thoroughly welcomed into the house, school life continued with its everyday normal hectic pace. A multitude of exchanges during the first part of the term supplied many of the Darbs with dates. Dan Mack led the crew team to a new record at our first barn dance, thus proving again the advantages of the straight-pipe plumbing of the men dressed in housecoats.

During the fourth week, a strange mass of old rusty pipes, a small water tank, lumber,



pumps, newspapers, and assorted junk began to accumulate in the courtyard. The lounge became bare, and the alleys were stuffed with furniture. Work on the Interhouse Dance had begun. The pumps were installed and Bob Curley and Harper Whitehouse began to send geysers of water up into the palm trees. The thing—almost worked. The number of pipes grew larger, and so did the water tank. People were daily seduced to work on the project by "it's fun to plumb" Perk Eiselen. Meanwhile the ceiling of the lounge was being covered with clouds; the walls, with stars; and the image of a castle was forming in the distance. The entrance to the lounge was an old-fashioned covered bridge with a waterfall on one side and a gently flowing stream underneath.

Perk and his crew kept fooling with the pool and fountains through midterms week and finally got the thing to work fifteen minutes before the dance started. Enchanted couples danced to the music of the band and Tony Iorillo. Outside blue, green, yellow, and red lights played on the changing, sparkling sheets of water.

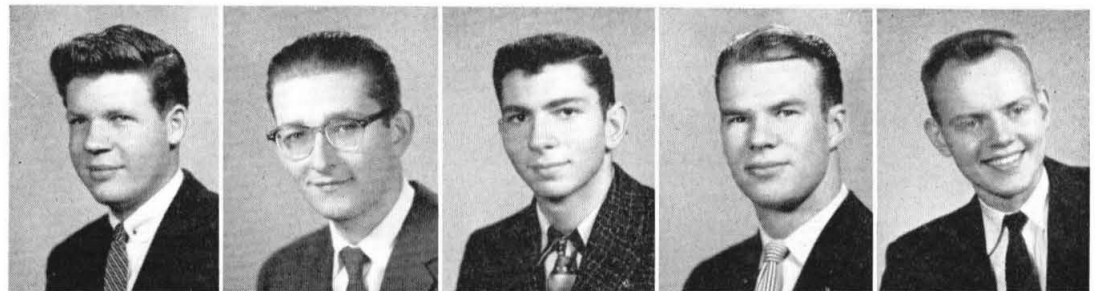
All in all, it was a lot of work; but it was a lot of fun, too. After the dance was over, the whole thing was reduced to a mountainous heap of rubble which the house eventually hauled away under the whip of Hal Dale. Another Interhouse had come and gone.

Led by co-athletic managers Don Russell and Pete Abbey, the Darbs started out the year intent on winning the Interhouse Trophy. First term the Darbs took first place in

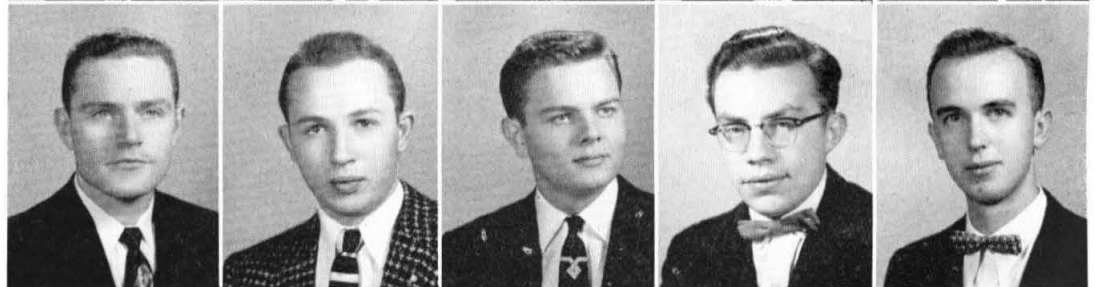


Our crew team drinks in house coats . . . Dabney wins in 31.2 seconds.

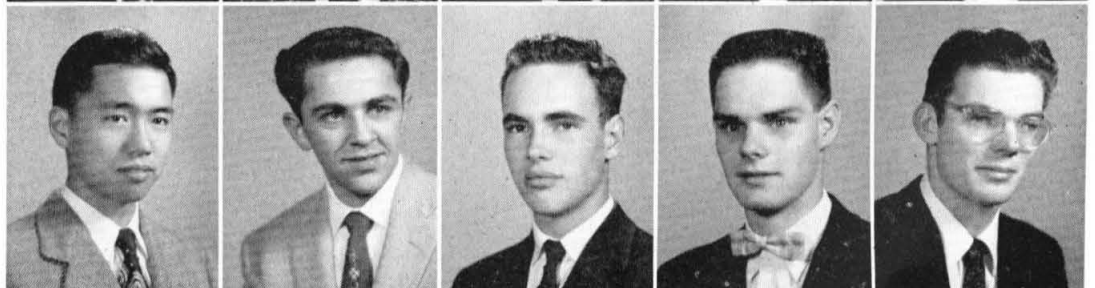
Dick Ashby  
Stan Baker  
Jack Bass  
Kyle Bayes  
Howard Berg



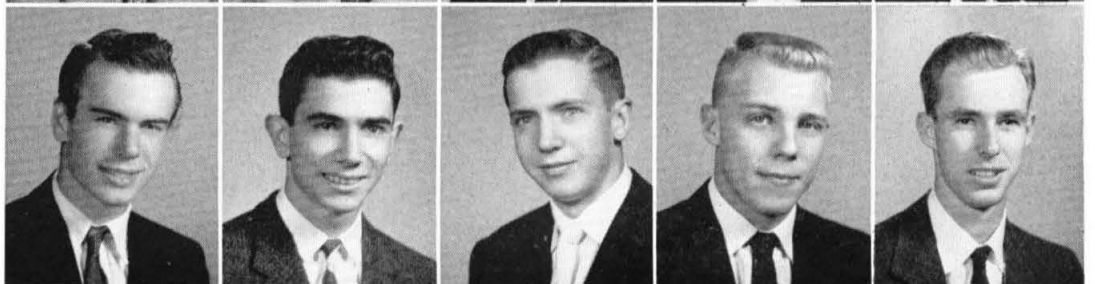
Larry Berry  
Mike Bogost  
Bob Bradford  
Bill Burrow  
Bob Chambers

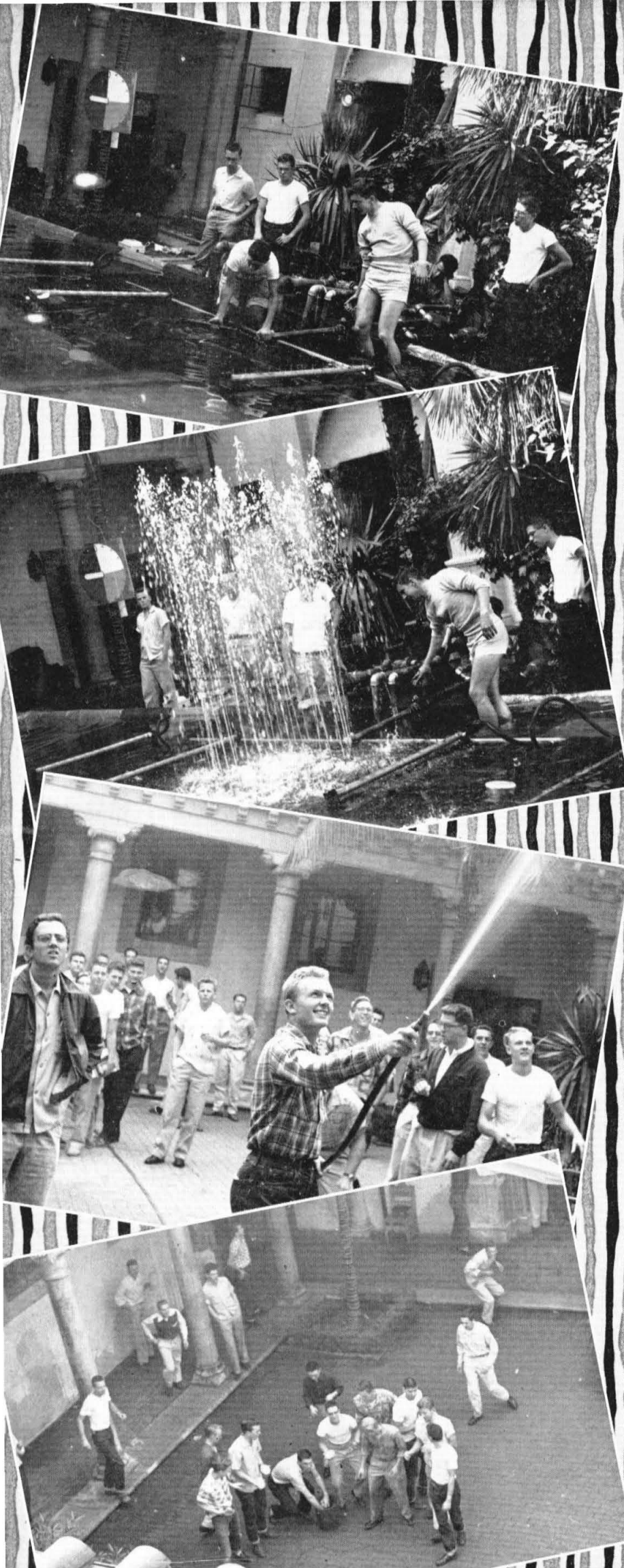


Berken Chang  
Doug Christman  
Jim Coe  
Martin Conneally  
Bob Curley



Neal de Gaston  
Sol De Picciotto  
Everett Eiselen  
Pete Finley  
Louis Fletcher





softball, tied for first in basketball, and took second place in cross-country. The house's athletic spirit kept building up, and second term the men in green once again took first place in track. With Dabney leading the race it looked like a good bet that the "Lady" would rest in Dabney's lounge once again next fall.

Second term also brought the Interhouse Sing. For two weeks the Darbs practiced under the direction of Alan Forsythe on "Rock of My Soul" and "Summertime." The big night arrived and the house took second place in the sing. The after-dinner practices stopped, but impromptu singing around the piano continued until finals week.

Throughout the year Hal Dale's social schedule continued to supply the Southwest Socialites and their dates with many pleasant evenings. The party-parties kept their former appeal, with the attendance at these functions growing to huge proportions. The annual snow party was a huge success.

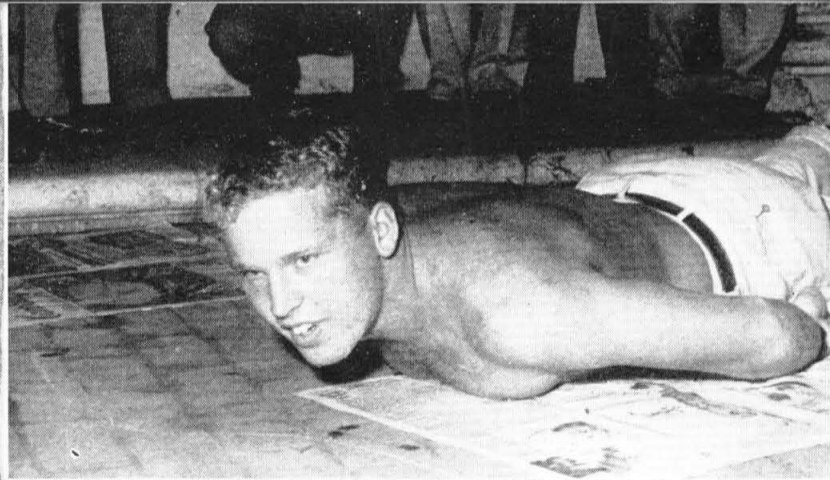
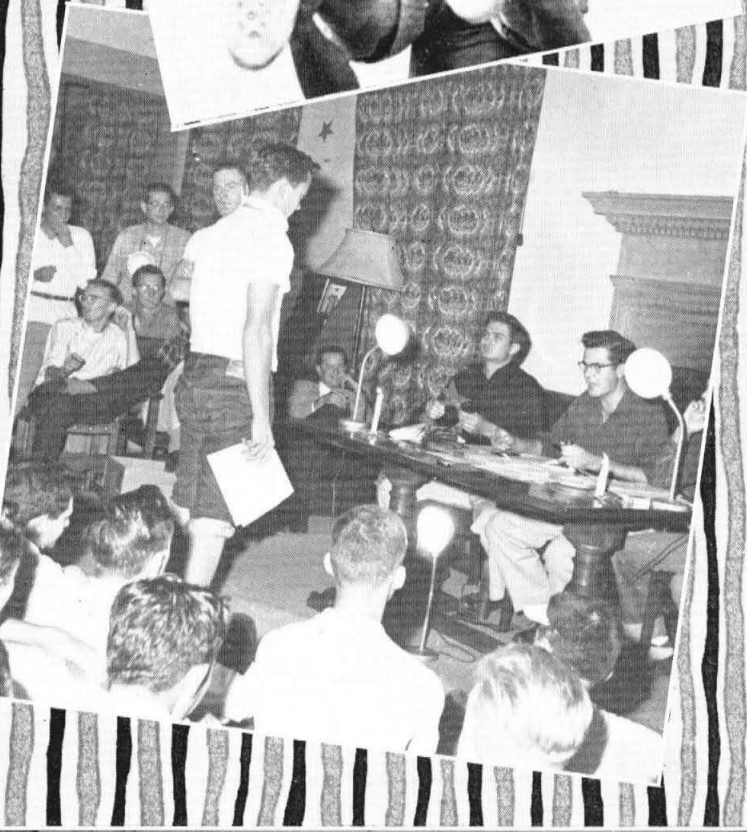
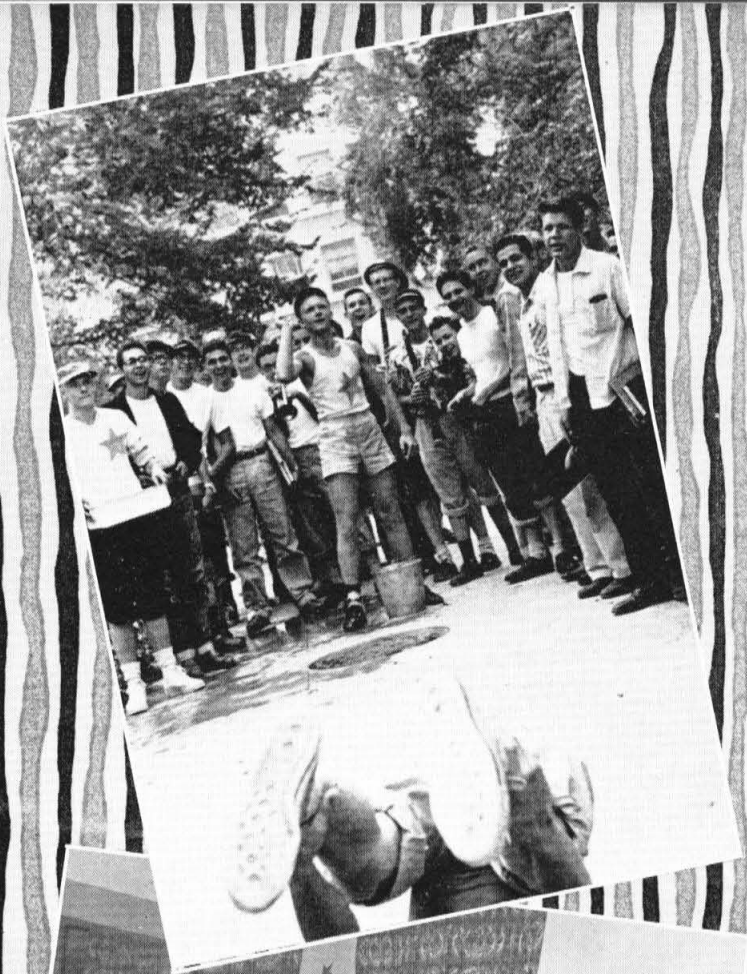
During the middle of second term Dabneyites were amused by a small private war which was started by Harper Whitehouse against the entire population of Blacker's Hell alley. It seems he found out an easy way to make tear gas and brewed up a jug full of the juice. Faced with the problem of how to get rid of it, he decided to dump it in Hell alley. "Millions for defense, but not one cent for tribute" Whitehouse ignored Blacker's ultimatum for peace—a case of beer or else, and spent the next week jumping out of his window and scuttling through the attic whenever there was a knock on his door.

Near the end of second term, the bridge players were dismayed to learn that a new monstrosity had taken possession of the other end of the lounge. Don (seldom seen) Seldeen's parents had given Dabney a TV set, and within days the whole house knew about the joys of watching television. As yet it is doubtful whether the TV set is a boon or a blight to the rest of the house; one thing is certain, however—it is there, and you notice it.

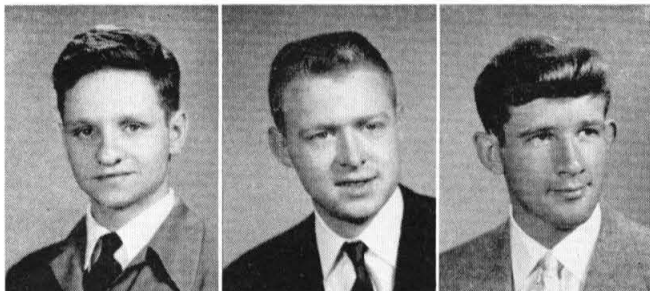
ASCIT elections were held, and a number of Dabney men were elected to office. Don Nierlich became treasurer; Dick Kirk, publicity manager; Walt Petersen, Big T business manager; and Stan Baker, editor of the Big T.

House elections came next. Out of some twenty to thirty men running for office, the Darbs selected their officers for the coming year. Pete Finley replaces Louis Fletcher as president of Dabney House, after a year of outstanding performance. Jerry Peck stepped into the vice-president's job, left by Bill Purves. Andy Perga took over the duties of house treasurer from Dick Kirk. John Kleiderer succeeded Bob Jetter as secretary. Joe Jurca and Dennis Kuli replaced Don Russell and Pete Abbey as the new co-athletic managers, and Keith Martin became historian, taking over the job from Curt Schulze. Hal Dale yielded the job of social vice-president to the team of Norm Ellett and Dan Mack. George Logemann received the post of librarian from Pete Hoag. Bill McClure stepped into Andy Perga's shoes as the latter left the post of comptroller for the greener fields of treasurer. Near the end of second term the new group of officers came into power, and the spirited Darbs looked forward to another great year.



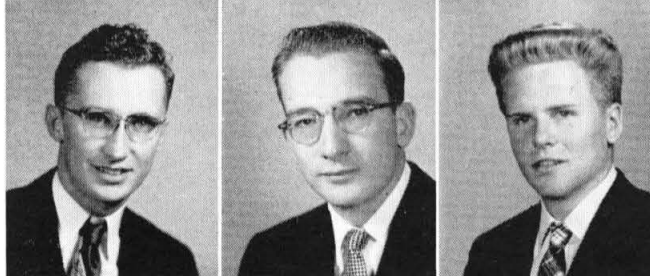
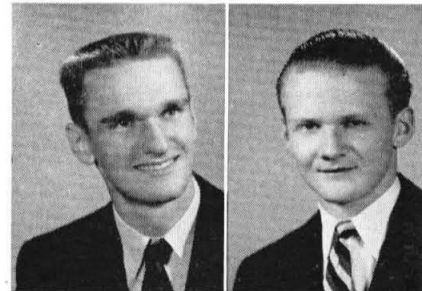






Joel Greenberg  
Gerhard Hahne  
Jim Hall

Joe Jurca  
Arne Kalm



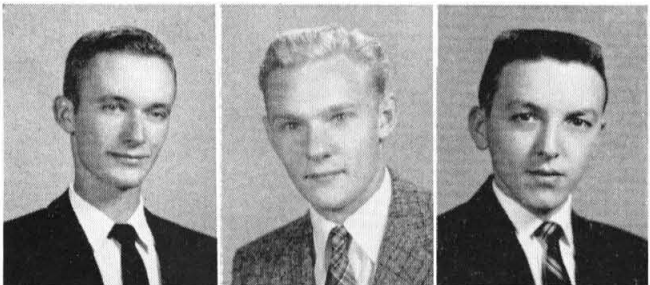
Phil Helman  
Ed Hershberger  
Pete Hoag

Lloyd Kamins  
Bob Kausen



Rodger Hoelter  
John Howell  
Tony Howell

Leon Keer  
Ralph Kehle



Dick Hutson  
George Ilves  
Tony Iorillo

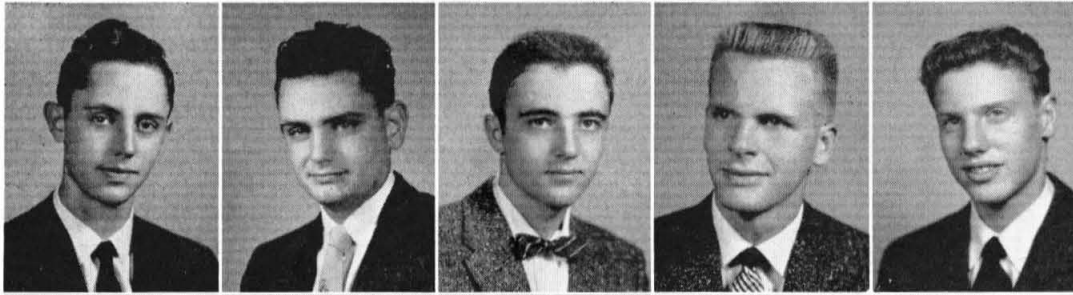
Jay Kimmel  
Dick Kirk



Mike Jenkins  
Bob Jetter  
Dick Johnson

John Kleiderer  
Dennis Kuli

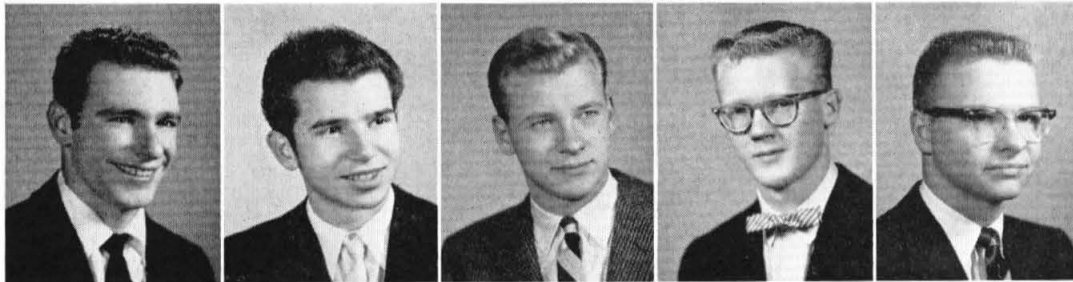




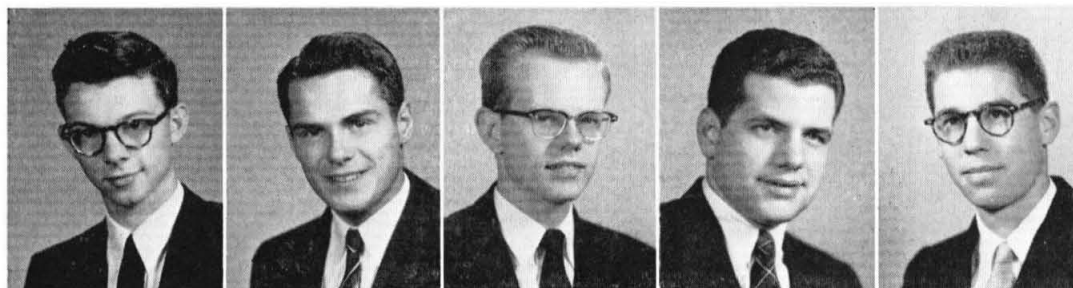
Bob Lange  
 Dave Lange  
 John Lango  
 Don Lewis  
 Lanny Lewyn



George Lindsay  
 Lewis Linson  
 George Logemann  
 Truman Long  
 Bernie Lopez



Dan Mack  
 Ray Magdaleno  
 Keith Martin  
 Bill McClure  
 Don Meyer

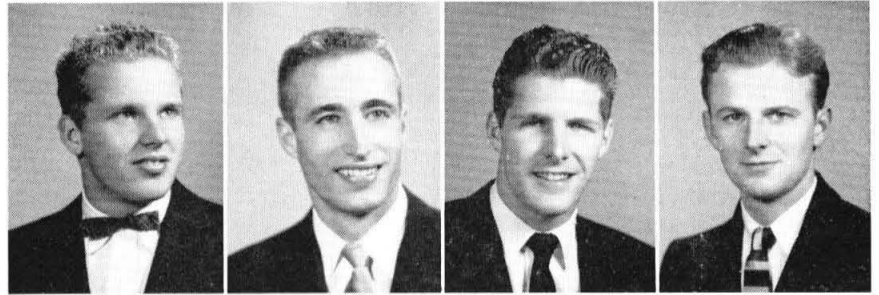


Dave Miller  
 Tom Moore  
 Don Nierlich  
 Ray Orbach  
 Don Owings

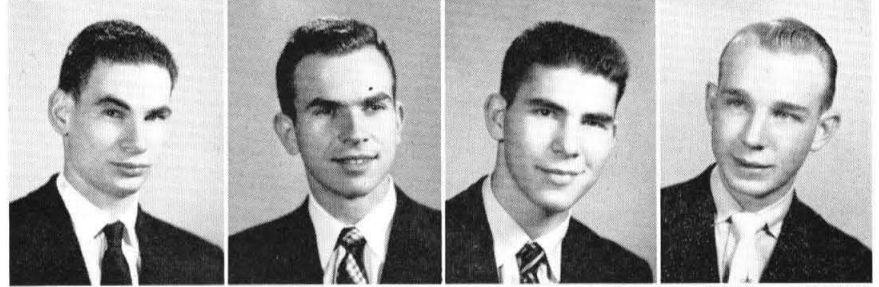


Dennis Paul  
 Jerry Peck  
 Bud Penquite  
 Andy Perga  
 Mike Peters

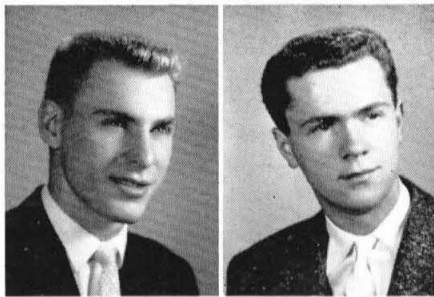
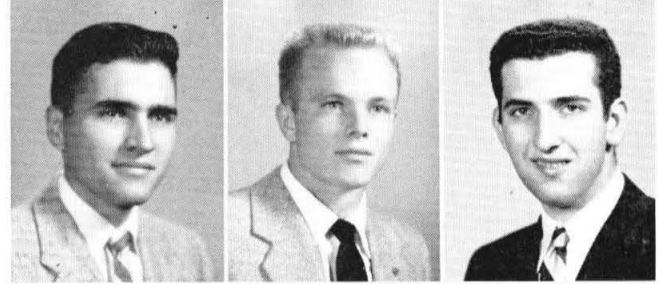
Russ Pitzer  
 Jerry Pixton  
 Tom Plambeck  
 Bill Purves



Seymour Rapaport  
 Don Russell  
 Bob Schenter  
 Gary Schmidt

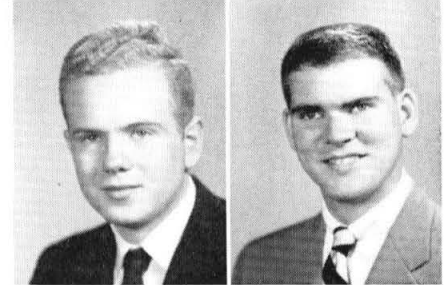


Harrison Schmidt  
 Curt Schulze  
 Don Seldeen

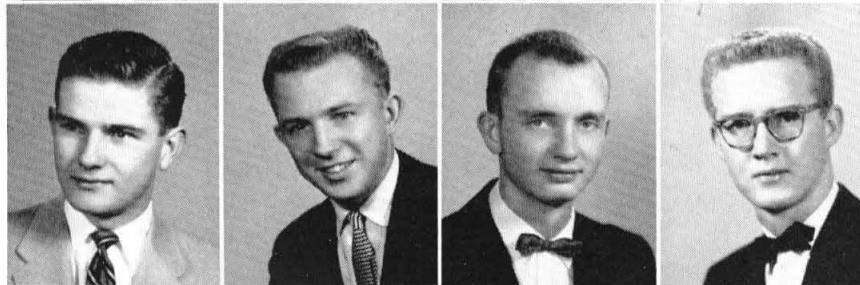


Dick Smisek  
 Jerry Smith

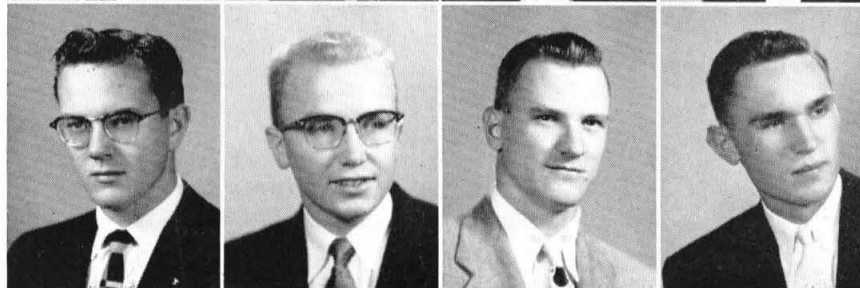
Attila Simanyi  
 Dick Small



Pete Smith  
 John South  
 Pete Stair



Don Stocking  
 Dave Sunquist  
 Joe Swindt  
 Jim Tate



Terry Teigen  
 John Thomas  
 Ray Weymann  
 Fred Witteborn





## *dabney*

But first there were finals. The usual process took place; books appeared, and the courtyard suddenly became quiet (except for some letting off of steam). Finals passed, and after a week's vacation the house resumed its normal, less quiet activity.

The social program kept moving at a fast clip under the new regime of Norm Ellet and Dan Mack. Dance floor and tables were moved into Dabney court for the Annual Dabney Spring Formal. Producer-director Bill Purves corralled Jim Tate and Howard Berg from the house and imported Carol Radcliffe and Barbara Turner to star in "Duty's Contract," a farce in three acts, more or less.

Dabney's athletes continued to roll up impressive victories in the Interhouse Race. Third term the Dabney teams captured a first place in volleyball and a second place in football, thus bringing the trophy back once more to a resting place on Dabney's mantel.

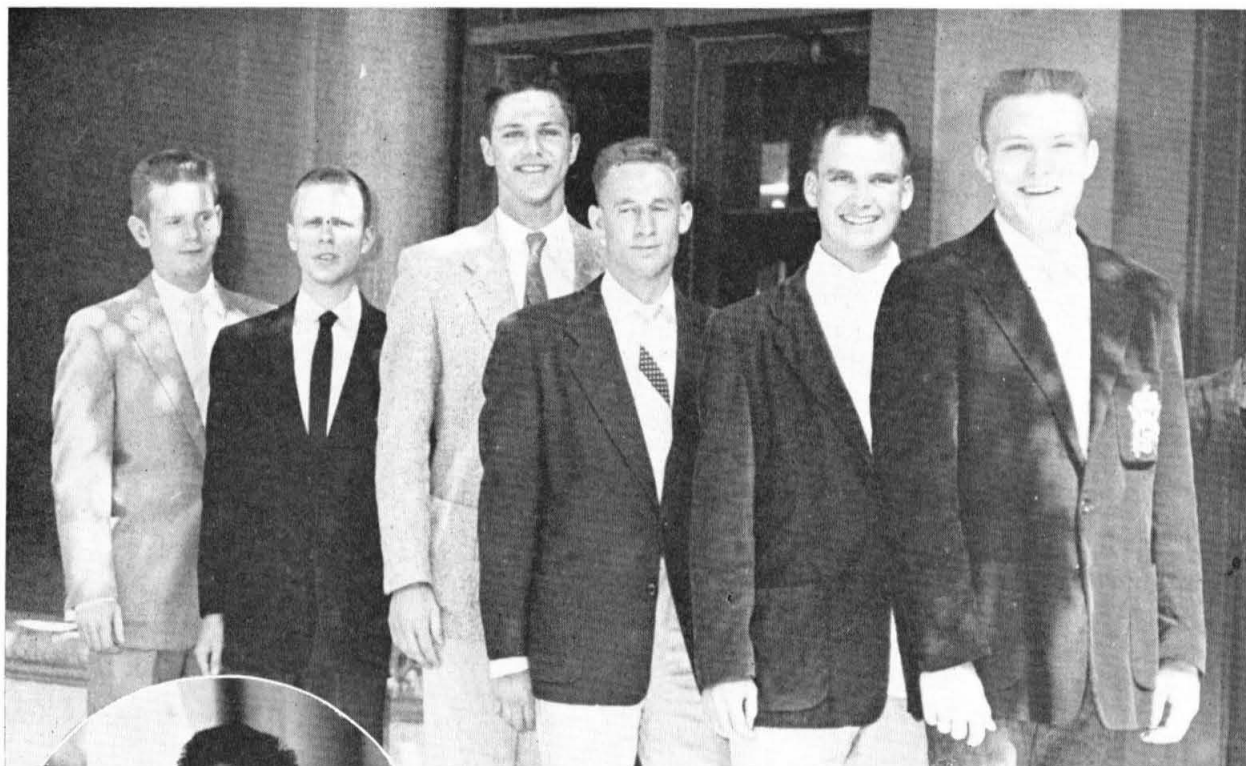
The senior physicists from Alley Five turned to frivolity and challenged Alley Four in a crew race. In the defeat which followed it was clear that their educations didn't prepare them for the great art of guzzling liquid.

After waiting for three terms, the frosh finally ambushed their pledgemaster (Dick Kirk). Kirk was innocently strolling to an ASCIT Board meeting when he was intercepted by many frosh, bound, taken to a truck, transferred to a car and taken to the foothills. He was brought back, transferred to another car (in true Hollywood style) and finally dumped in a hole behind Guggenheim. After awhile he broke out and returned to the house, much too soon for the frosh.

Finals descended once more and grinning seniors, along with all the rest of the Darbs, departed for summer work and summer play.

Seymour Rapaport

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LEFT TO RIGHT: Dick Herlein, Joe Fineman, Herb Rauch, Bill Davis, Hunt Holladay, Larry Whitlow.

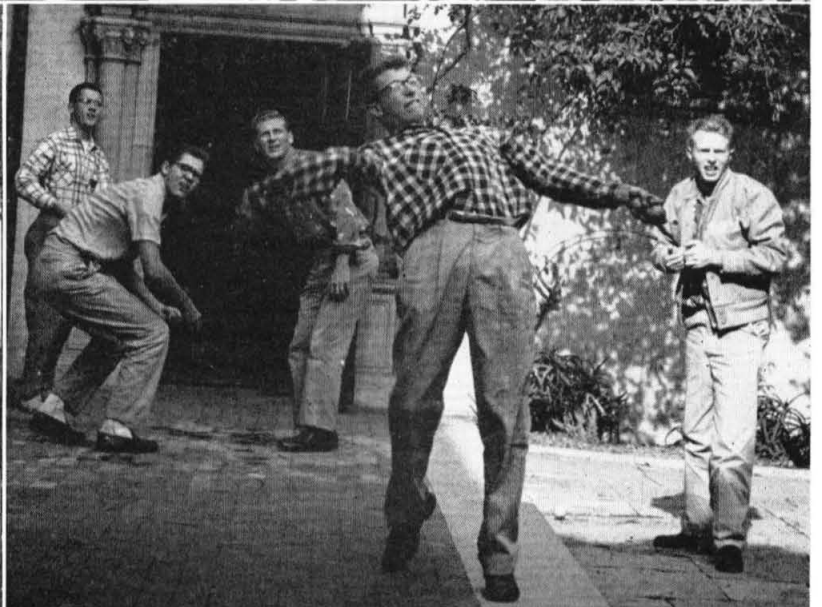
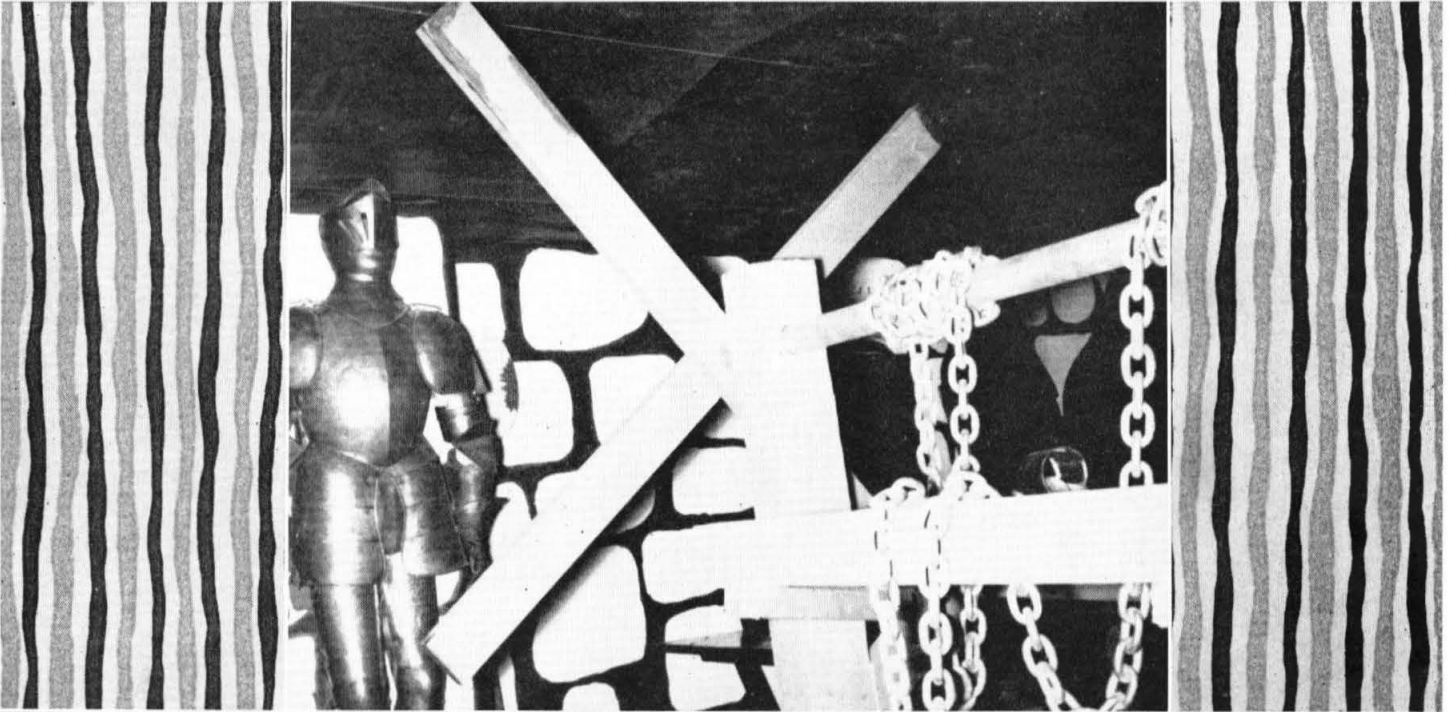
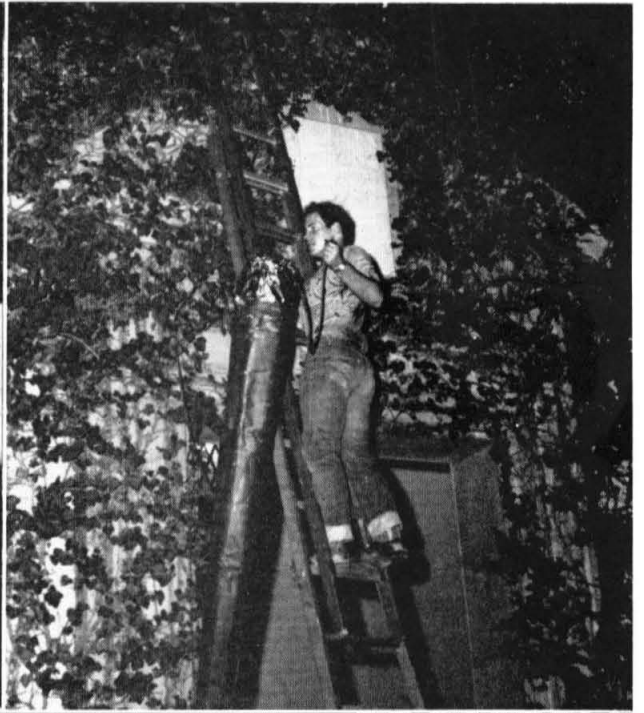


Warren Furumoto  
President

This fall Fleming welcomed a new Resident Associate, Lloyd Best, a geologist of fame in matters amatory, whose forceful personality and pacific disposition made him an invaluable guide throughout the house's year. One new face at that time was, however, hardly conspicuous among the scores of incoming freshmen who absorbed most of the attention of the members, as for two hectic weeks their untiring and inimitable president Riley Jaschke led them in the most earnestly prosecuted rotation anyone in Fleming could remember. But after escorting and the speeches were over, and the indoctrination booklets had fluttered into wastebaskets, the stuffed house still faced the job of digesting the fish that it had hooked, cooked, and eaten. Initiation, led by Bob Smoak and his Sophomore Supreme High Authority on Fleming Traditions, was well suited to its avowed purpose of building up the timid men and deflating the over-eager, bringing the house together as a conscious whole, and in the process providing frosh and sops alike with a few days of good fun.

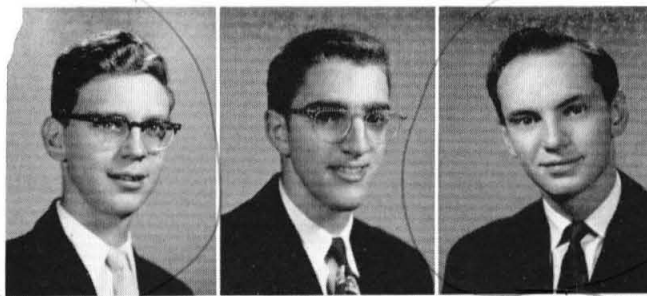
In October Fleming had a new president. Riley Jaschke and Fleming House, together for a year to the inestimable benefit of both, parted to work out their own separate destinies, and Warren Furumoto, after seeing to it that Jaschke was properly thrown into the showers, took over the gavel. John Myers was subsequently elected vice-president to replace him.

Fleming really began to work together at the Interhouse Dance, where, under an enthusiastic leadership consisting mostly of freshmen, the familiar premises took on the form of a medieval castle. Bruce Allesina and Bill Graham led a sweating crew of

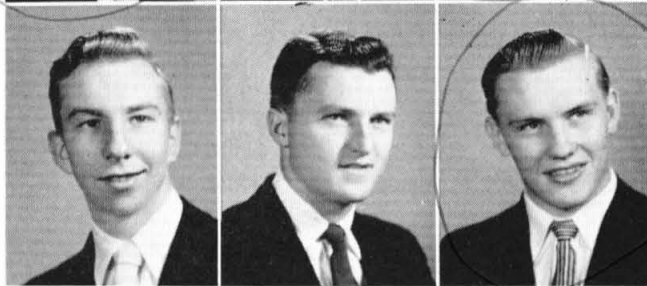




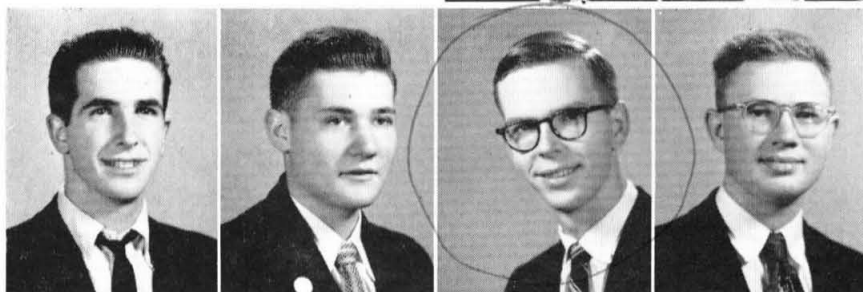
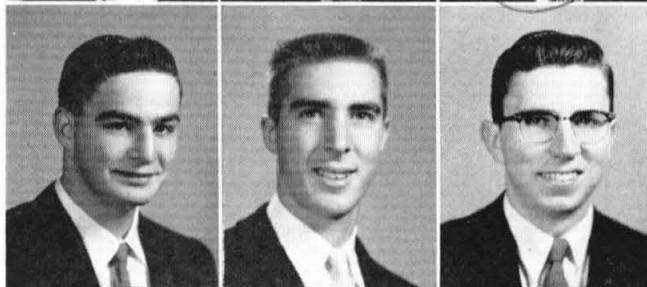
Bruce Allesina  
 Dick Alvarez  
 Charles Anderson



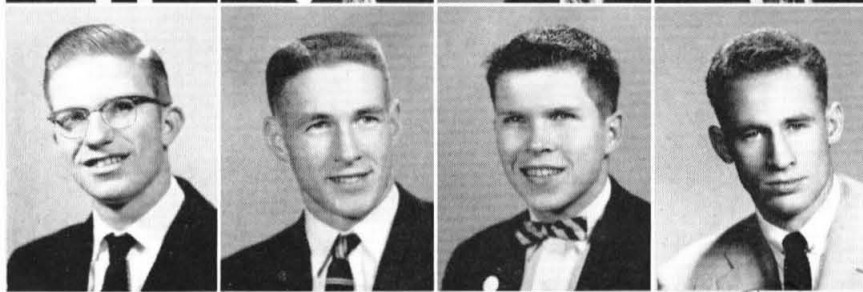
Dean Anshultz  
 James Ball  
 Gene Beisman



Basil Brady  
 Baird Brandow  
 Gordon Brown



Kieth Brown  
 Sheldon Burke  
 Nelson Byrne  
 Barry Clark



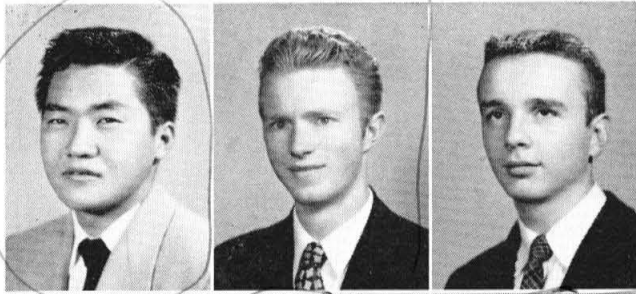
Ralph Clark  
 Phil Conley  
 Glen Converse  
 Bill Davis



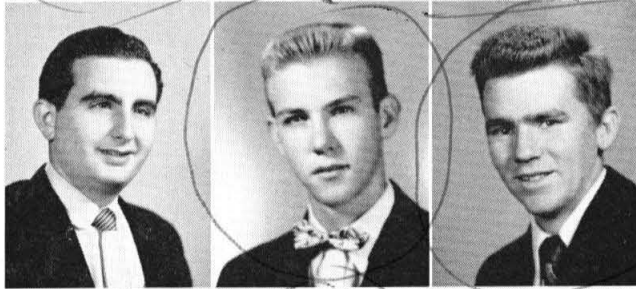
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 Allen Diercks  
 Richard Dietz  
 Alan Emanuel



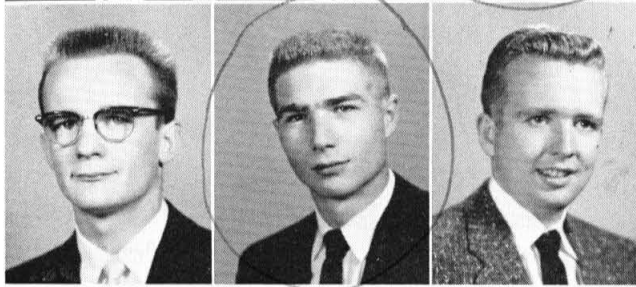
Eugene Epstien  
 Dick Fiddler  
 Joseph Fineman  
 Gordy Fullerton



Warren Furmoto  
Robert Gardner  
David Gilson

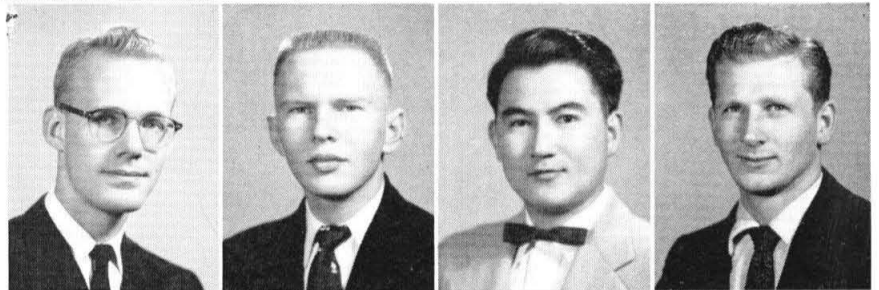


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William Graham  
Mike Gray

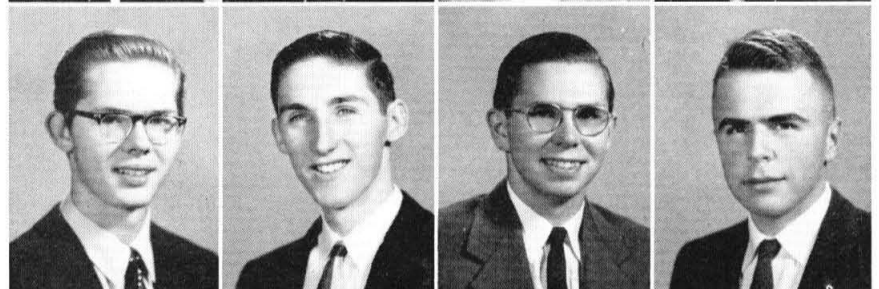


Thomas Gunckel  
James Hall  
Bob Herzog

John Holland  
Dick Homeyer  
Harvey Houiuchi  
Bob Huebottor



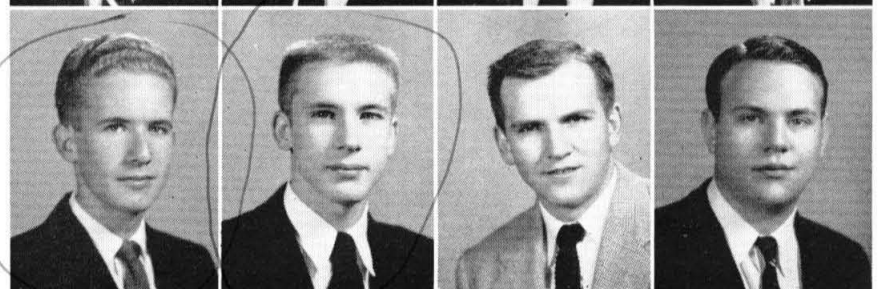
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Robert Jewet  
Victor Johnson  
Larry Jones

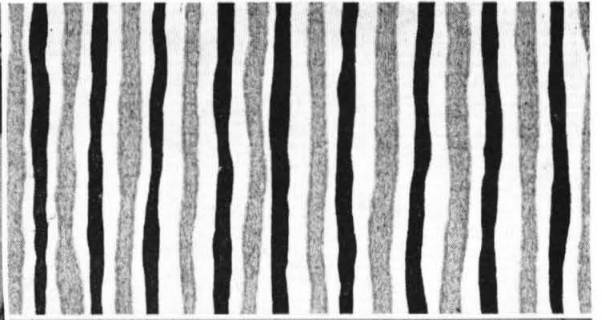


Peter Jordan  
Douglas Junge  
Dave Kipping  
William Klement



Karl Knapp  
Michael Konrad  
Jim Koontz  
De Witt Landis





painters and decorators in make the lounge into a stone-walled hall, filled with suits of armor, while John Lukesh and his fellow sadists saw to it that the dining room became a well-equipped torture chamber, complete with rack, bed of nails, thumbscrews and other useful tools. A torchlit drawbridge crossed a moat to give couples access to the fortress. Contrasting with the gloomy atmosphere inside, Pailthorpe and Herzog created a luminous fountain in the court, which many found one of the most beautiful sights at the entire dance.

For the rest of the year, social chairman Bill Davis kept the house hopping with as many events as the crowded schedule would allow. Two Theatre Parties, a Snow Party, a special party at UCLA, and two Off-Campus Parties provided variety, while a Casino Party second term revived an old idea with great success. The Valentine Dance and a couple of barn dances rounded out the program, with, of course, numerous exchanges to help Fleming men meet enough women on their own, so as to not overload Davis' blind date service.

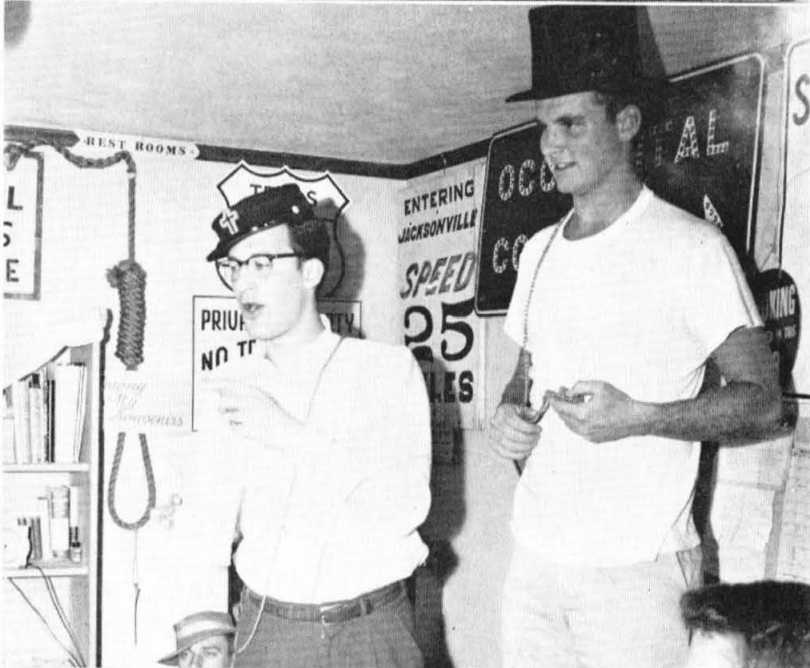
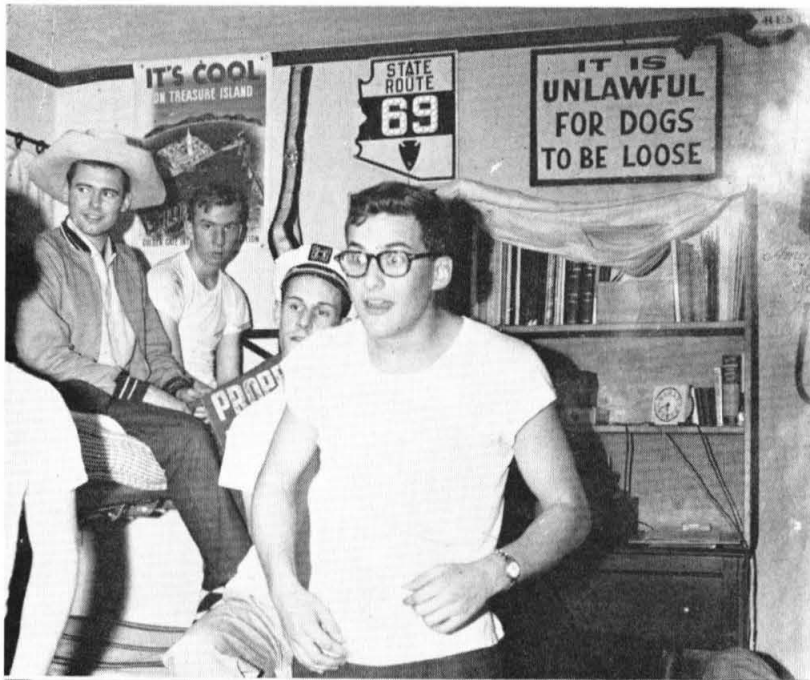
"Only 11 practice days left!" and the ubiquitous "Let's fire it up" were familiar in the ears of the troops as athletic managers Hunt Holladay and Larry Whitlow sparked a big drive in interhouse athletics this year. Making use of all its potential by getting even supposed "nonathletes" out to the workouts and the meets, Fleming racked up many points in softball, basketball, and track, and pulled an entirely unexpected first place at the interhouse swimming meet.

The other officers of the house were neither inconspicuous nor unsuccessful. Herb Rauch, house treas-

urer, tended to his business with such acumen that the house finished its second term \$450 in the black. Secretary Joe Fineman wrote minutes in Latin, put appropriately discouraging quotes on the house calendar during finals week, and talked and talked and talked about Fleming House. And librarian Dick Herlein, toward the end of the second term, felt moved to give the Fan Room its first thorough cleaning in years.





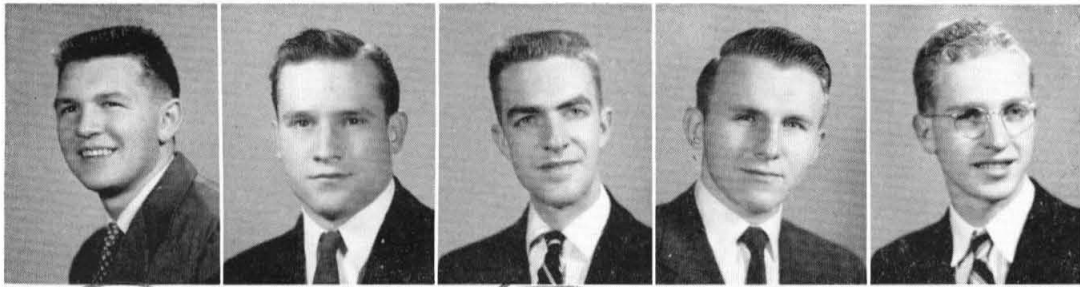


But the greater part of the life that is Fleming is not a matter of official duties, but of small talk and work and doings that create the atmosphere which a Fleming man thinks of when one mentions Fleming. The cheers and boos and cigars as a man joins the Waiters' Union; the perpetual bridge games in the lounge; the endless bull sessions about women, cars, grades, science, sports, and the house, in the special language of men who know each other well; the alleys ringing with footsteps toward a party in someone's room; the raucously received announcements at lunch and dinner and the president's "sermons" on house unity—these are the things that soak into a man of the house and make him smile when he thinks of them.

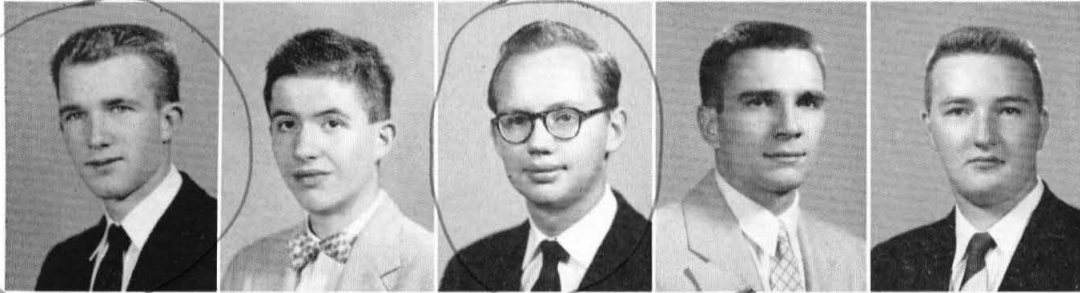
Election time saw two Fleming men placed in ASCIT office. Herb Rauch forsook his custody of the "convertible fund" of Fleming for the greater glory of the office of ASCIT secretary, and Glenn Converse struggled his way to the position of athletic manager. These men, who have served Fleming well, will continue to be an asset to the entire Caltech community.

The speeches at Fleming's own election meeting, always a good barometer of what the house is thinking of itself, concerned themselves mainly with house spirit and the problem of making one strong union of all the different and peculiar groups and interests that make its life rich and varied. The great interest in, and many approaches to, this matter that were shown at this meeting assure us that it will not long be a problem. After a close race for the presidency, Fleming closed ranks behind Larry Whitlow as their leader for the coming year; Jim Welsh was then elected vice-president. Ending a long period of one-man rule in their social program, the house chose a gleesome threesome, Dave Gildersleeve, Dave Gilson and Don Wiberg, as co-social chairmen. Joe Fineman, re-elected secretary unopposed, promised to help provide Fleming House with an intellectual basis for unity. Gordon Fullerton and Warren Furumoto, whom the house chose unanimously for their new athletic managers, will continue their decisive past support of Fleming athletics and come up with spirited and strong teams. Dave Yount, who didn't think he had to make a speech, was elected treasurer without one; his conscientious service to the house had already qualified him in the eyes of most Fleming men. The new librarian, Kirk Polson, however, took on what is perhaps the most difficult job of all: "to make the office of librarian respectable." As always, relaxed moments in the meetings produced several special offices, which the minutes modestly referred to by such names as "**Semiasinus Domesticus**" (Mac Poor) or "**Raunch Domesticus**" (Nick Grossman).

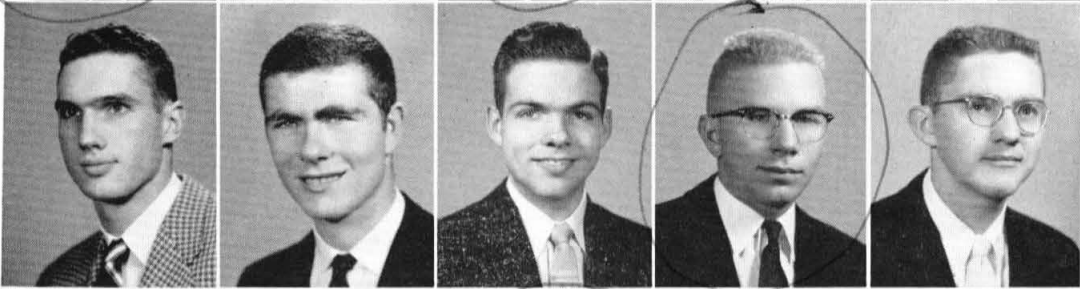
Third Term arrived as usual; and as usual, it brought along the festivities of spring. We will all miss brother Lukesh, who after leaving on the door of his empty room a cartoon reading, "Isn't it great to honeymoon in Las Vegas," quietly left to do just that. As House Godmother and mother of the bride, Mrs. Hale said, "At least, I hope they're married!" Big Jim



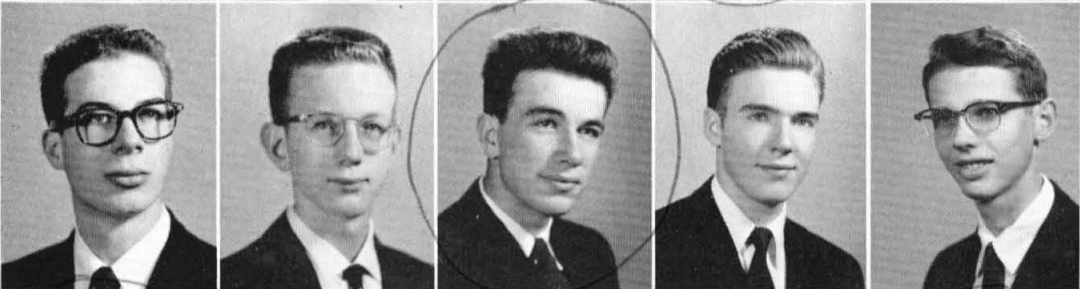
Chuck Luke  
John Lukesh  
Duncan MacDuffie  
Steve Maeger  
Robert Marshall



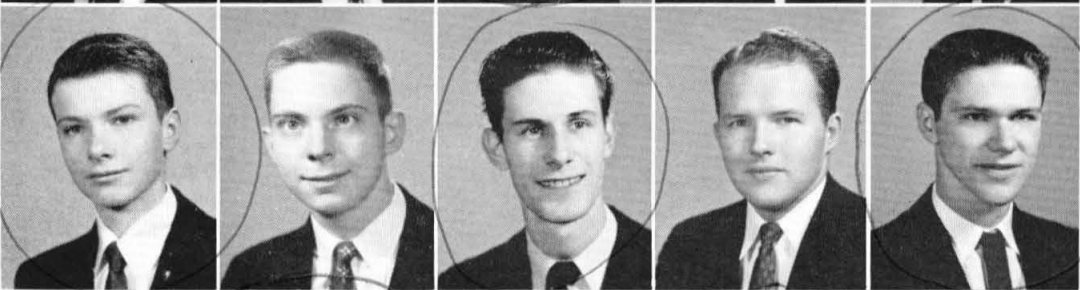
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Paul Minning  
Richard Montgomery  
Robert Moore  
Jim Myers



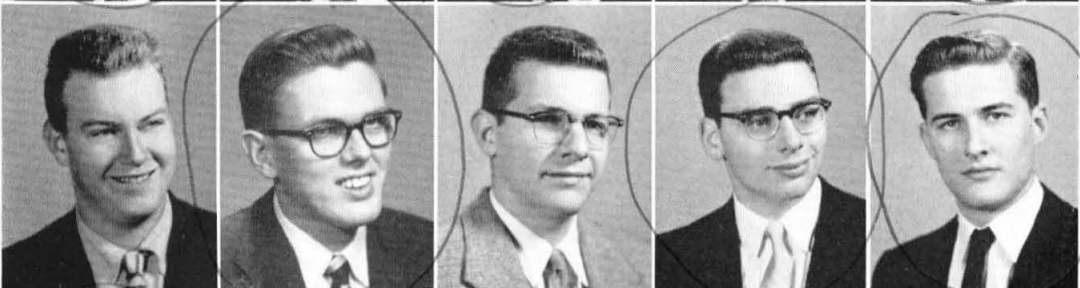
John Myers  
Blaine Navroth  
Robert Norton  
Ted Oakberg  
George Oetzel



Mike O'Malley  
Robert Pailthorpe  
Roland Parkinson  
Rex Peters  
James Petty



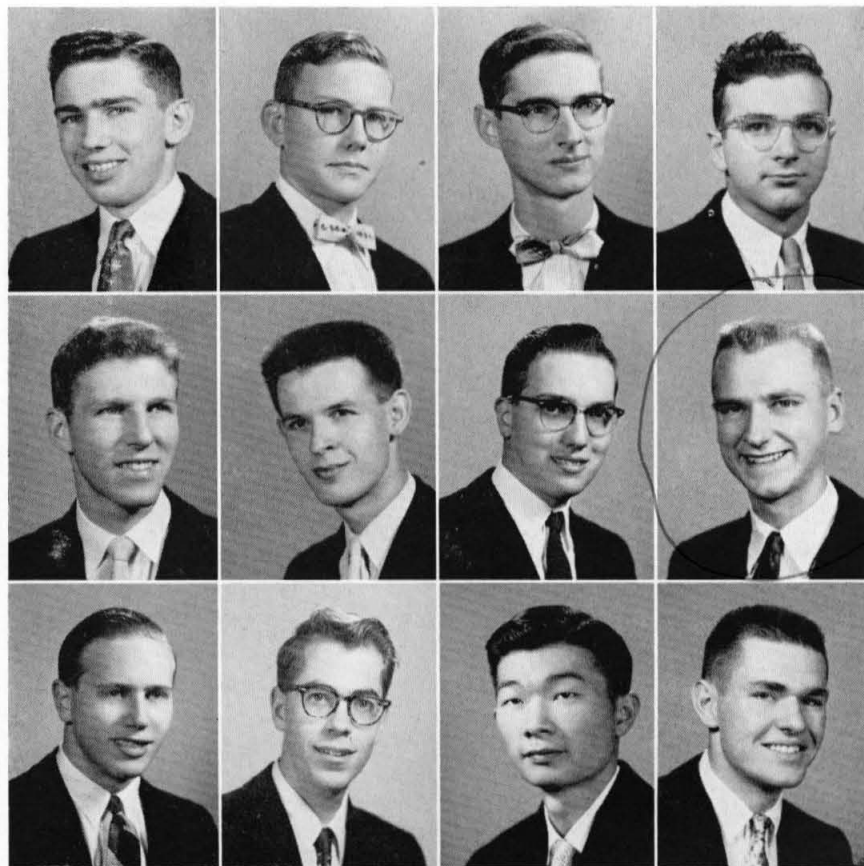
Kirk Polson  
Jim Potter  
John Price  
George Probert  
Herb Rauch



Larry Rhodes  
John Rodgers  
Rudy Schindler  
Jim Somberg  
Bob Smoak



David Spencer  
John Stevens  
Larry Tenn  
Philip Thacher  
Martial Thieboux



Robert Tokheim  
David Turnquist  
James Vicars  
Jerry Yurek

Jim Weaver  
Jim Welsh  
Ray White  
Don Wiberg

John Wise  
Jon Wright  
Cavour Yeh  
Dave Yount

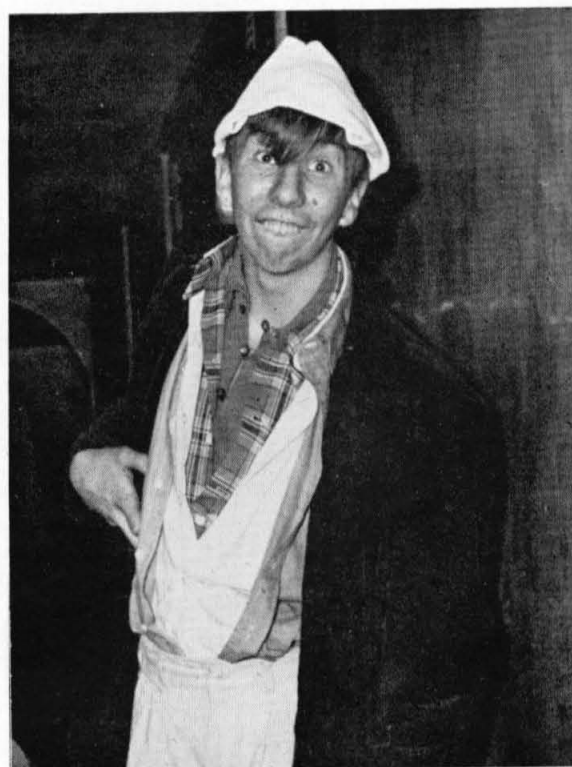
Snider, EX-president of the "Women are EVIL Club," also proved to be a traitor to the congenial fellowship of Fleming when he announced that he too would fall by the wayside in June.

Sports-wise, Fleming finished the year with a tremendous stretch drive, losing only one athletic contest all third term. The House members, their spirits nourished by tasty sundries from other houses, gave their wholehearted support to the teams, and a high percentage of the men were present at all of the games. The unique Fleming Olympiad produced many a sore back and many a smiling face as the seniors came off winners for the third straight time, while the sophs copped the sportsmanship trophy. When the dust had settled, Fleming found itself with the Varsity Rating Trophy intact, while tying for the Discobolus Trophy and running a close second in the Interhouse sports race.

Under the three-barreled leadership of our new social chairmen, the usual beach parties, swim parties, and the traditional Fleming-Ricketts Formal of third term were well attended and highly successful. In addition, the "Friday the 13th Party" with instructions, "Bring your own witch," and "Come As You Were Party," based on the Bridey Murphy Story gave the men a chance to use their imaginations in inventing unusual costumes.

Fleming looks back on a year of work, fun, success and progress; and though the seniors who are leaving take with them their share of what has made Fleming House what it is, those who remain can look forward with assurance toward the continuance of its traditions and the building of an ever better house.

Joe Fineman





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FIRST ROW, left to right: Rube Moulton, Jerry Swedlow, Chuck Bonwell, J m Mebust. SEC-  
OND ROW: Chuck Helsley, Marty Tangora, Byron Johnson, Bob Walsh.



Jim Higgins  
President

Ricketts moved recklessly through another gay and fruitful year with the fire and spirit that always leads to success. With Jim Higgins and his able regime at the helm, the Rowdies always knew what they weren't supposed to do and had a lot of fun doing it.

It was no accident that the good year saw a hard-working executive committee around Higgins, seeing to it that the boundless energy of the Ricketts man was channeled in somewhat profitable directions. Chuck Helsley, iron man of the water fight and deacon of the lock pick, ran the upperclass committee at a continued high level; Marty Tangora, as secretary, kept the records in such good condition that even the house president could understand them; and Byron the Beak Johnson had such hard locks on the house treasury that a big deficit of a year earlier was converted into—get this!—a surplus during his period in office as guardian of the green.

The social program grew to such dimensions that it took three social vice-presidents operating together—Jim Mebust, Rube Moulton and Jerry Swedlow—to keep it running. Dances, beach parties, exchanges, bowling parties, open houses, and every kind of event under the sun were staged; and great numbers of Rowdies were to be seen drifting back to the house at two or three o'clock early Saturday or Sunday morning with winsome smiles on their faces.

The first term program naturally was highlighted by the Interhouse Dance, and everyone agreed that the Ricketts theme was executed this year with remarkable delicacy and good taste. The lounge became an Oriental temple of worship, with walls of genuine imported rice mats and a gigantic lifelike Buddha squatting silently at one end of the



room in meditation. A little coolie twelve inches high poured the punch, and a truly wonderful chamber was the secret entrance to a smaller dance floor where there was actually room to lift your elbow—that is, until the mechanism broke down early in the evening.

All this in the lounge!—and outside, the courtyard was transformed into a lovely Oriental garden, with grass-covered hills, mirror pool, authentic lattice-work, and pudgy little fertility gods frowning on the activity.

Without even showing the least signs of exhaustion, the social calendar carried on smoothly through barn dances, the ASCIT Christmas Dance and the Formal, a whopping Valentine's Dance, and countless basketball games, until at the end of second term it reached another zenith with the ninth Annual Apache Dance. As it usually does, la Dance Apache exceeded everybody's expectations, with its unique atmosphere and compelling masqueraderie. The costumes were better than ever, the men fierce and tough-looking in their dirty clothes and scarred beards, and the "ladies" cheap looking in heavy earrings and high-slit skirts. Nobody could sit in that dimly lit, dingy Parisian water front cafe and really believe that he was still actually on the Caltech campus.

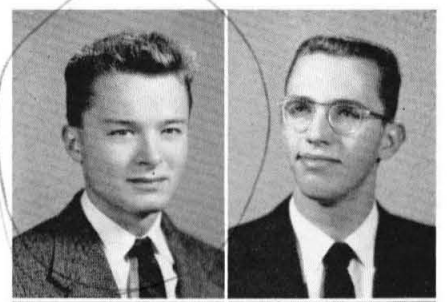
And if that wasn't enough, there was always the staggering third-term program of Lost Week End, the Dinner Formal, and more beach parties than anyone could keep count of. After it was all over, Ricketts men didn't have horns—they had dents.

Finding their week ends thus occupied with social pursuits, the Rowdies delegated their afternoons to athletics—of all kinds: varsity and frosh, interhouse, Discobolus, and even interalley. Chuck Bonwell and Bob Walsh were the house athletic managers and as usual the house teams made a strong showing, furnishing many promising new candidates to the inter-

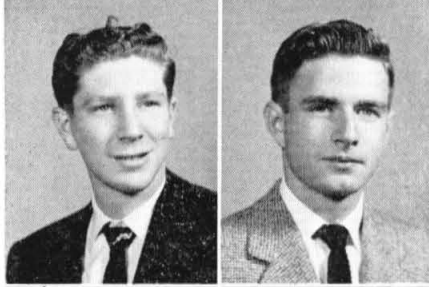




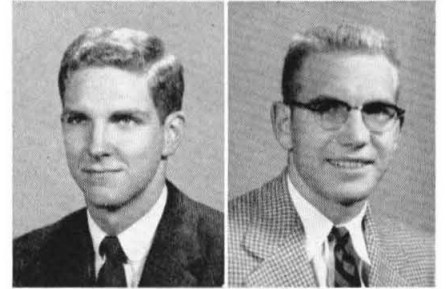
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Dave Allen



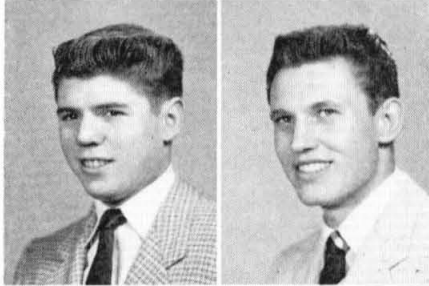
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Frank Childs



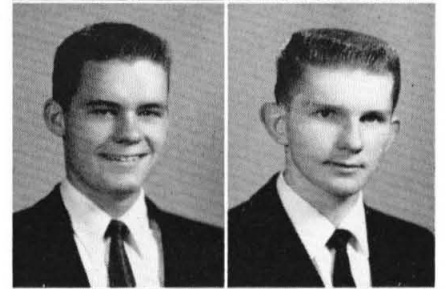
Jerry Arenson  
Brent Banta



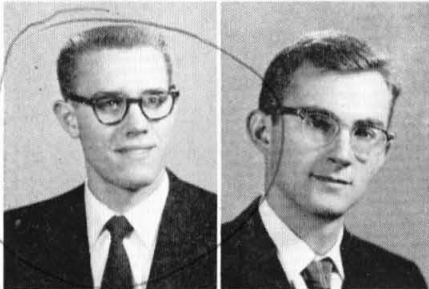
Dan Chilton  
Gene Cordes



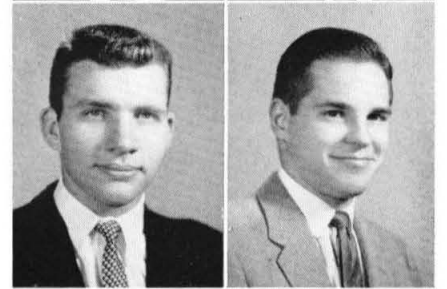
Gordon Barienbrock  
Dick Baron



Frank Cormia  
Jim Cribbs



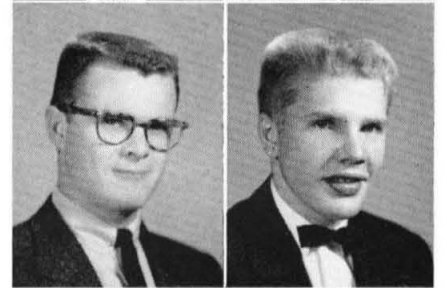
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Dick Baugh



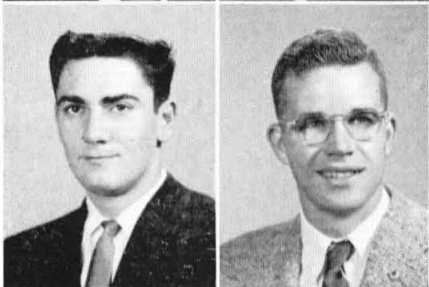
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Jack Eberhardt



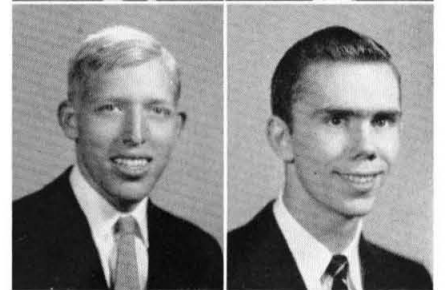
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Howard Bloomberg



Craig Elliott  
John Evanhoe



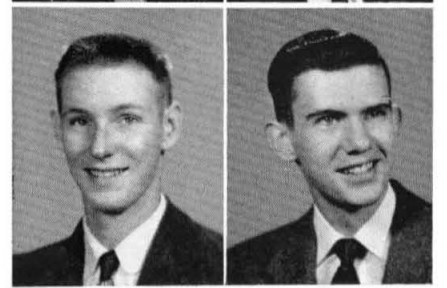
Luke Bogdanovic  
Stuart Bowen



Hugo Fischer  
Ron Forbess

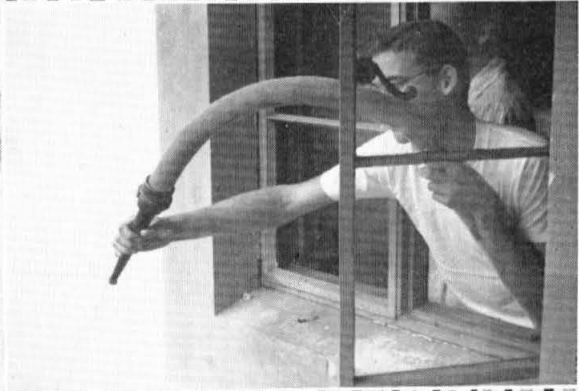
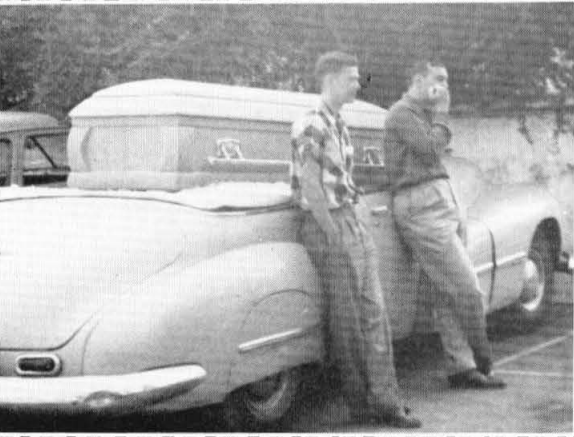


Ross Brown  
Dave Cantor



Clint Frazier  
Lyman Fretwell





collegiate teams. The number of Ricketts men supporting varsity and frosh teams was still growing, until it looked like a day not too far off when the Varsity Rating Trophy would arrive at the Ricketts mantel. In fact, the frosh rating championship had been taken by Ricketts for two years in a row now, going on three.

As for indoor sports (other than those mentioned in connection with the social program), Ricketts teams maintained their traditional supremacy, and it seemed as if the Lincoln Debate Trophy and the Interhouse Bridge Trophy were becoming fixtures in the lounge. And nobody could sneeze at Gene Cordes' crew team and its record, particularly the perennial Van de Houten's legendary skill.

If singing counts as an indoor sport, that one was just about wrapped up; for Lyman Fretwell, the best amateur glee club director this side of Tulsa, whipped the Rowdies into a championship chorale to win the Interhouse Sing Trophy again. Thus Ricketts kept alive its perfect record in one of the newest and best collegiate sings in the country. (And that sure is a pretty trophy!)

One of the special features of the Higgins administration was the reactivation of the Interalley Skill Game Trophy, for which the rules are known to no one and for which the greatest asset to any contestant is ingenuity and a sense of foul play. From now on the winning alleys would have their names engraved in one of the fixtures of the courtyard, and competition proved fierce from the outset.

The trophy was set into action in a "Potathlon" in which the alleys had a field day of jug dumping, straw puffing, balloon bursting, crow hopping, and three legging. Cherry Lane emerged victorious and survived a highly disputable "tie" with Crud in alley wrestling (a true spectator sport if there ever was one), only to lose out to Presidential's renowned Duetto in a four-hand, two-finger piano contest more noted for pomp than for circumstance.

Well, after working some classes and some studying into the week, there seemed to be a little time left over, and Ricketts men lived true to their heritage by turning their remaining energy into working for Caltech and ASCIT. Half the men on the ASCIT board of directors and half the board of control were Rowdies. The editors-in-chief of the **California Tech** and of **Farrago** were Rowdies, too, as well as most of the staffs of both publications. Besides these, three class presidents, most of the class officers, the **Little T** editor, and much of the membership and officers of the other campus clubs all wore maroon housecoats to dinner.

Not only were the Rowdies holding the offices in a lot of organizations but they were also getting in and doing the dirty work; when there were envelopes to be filled or decorations to be moved or any kind of tasteless and unrewarding labor to be done, Ricketts men were ready and willing. And there were more Ricketts Beavers than from any other house (including the president), and Ricketts turned the most honor keys.

And—as if they hadn't even strained themselves—the house had more than twice its share of members in Tau Beta Pi, scholastic honorary.

As the commotion of ASCIT and house elections





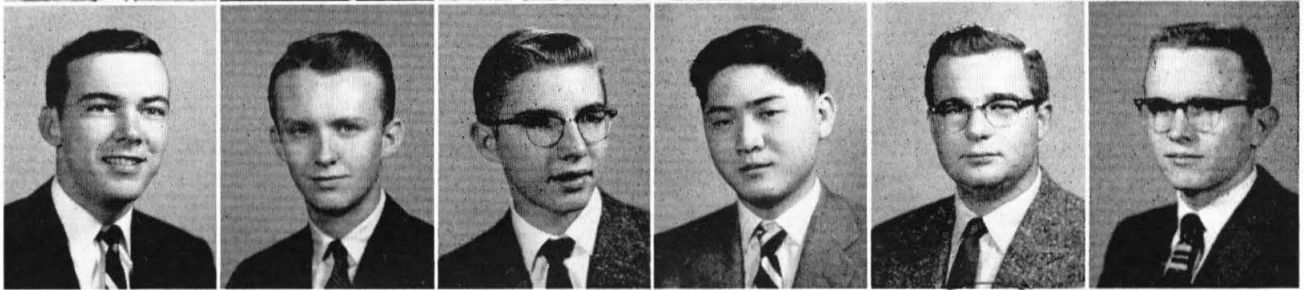
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 Bob Gelber  
 Mike Godfrey  
 Bill Gray  
 Larry Griffith  
 Dave Groce



Harold Gustafson  
 Phil Harriman  
 Bill Hecht  
 Chuck Helsley  
 Jim Higgins  
 Ford Holtzman



Dick Hundley  
 Russ Hunter  
 Norris Huse  
 Fred Ishihara  
 Ed Janelli  
 Byron Johnson



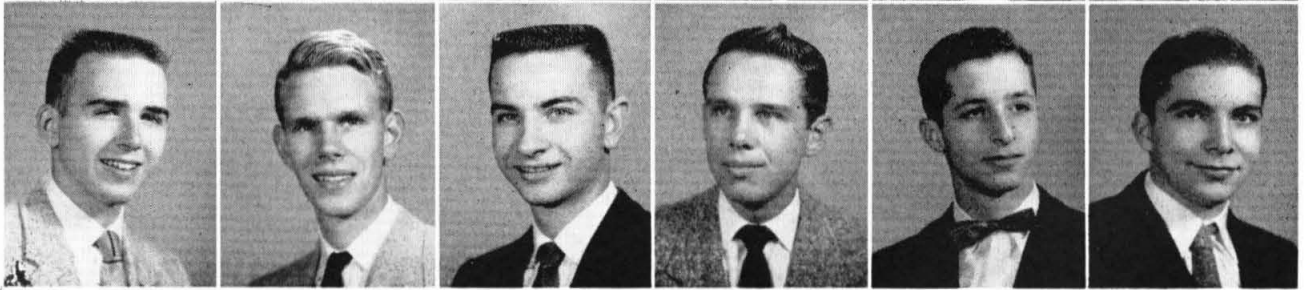
Charles Johnson  
 Dick Johnson  
 Mike Jones  
 Carl Kesler  
 Gerhard Klose  
 Frank Kofsky



Ed Krehbiel  
 John Lansingh  
 Dave Leeson  
 Tony Lenard  
 Dick Lewis  
 Richard Long



Dick MacAnally  
 Howard Marshall  
 Zack Martin  
 Paul McHorney  
 Mike Milder  
 Eldridge Moores

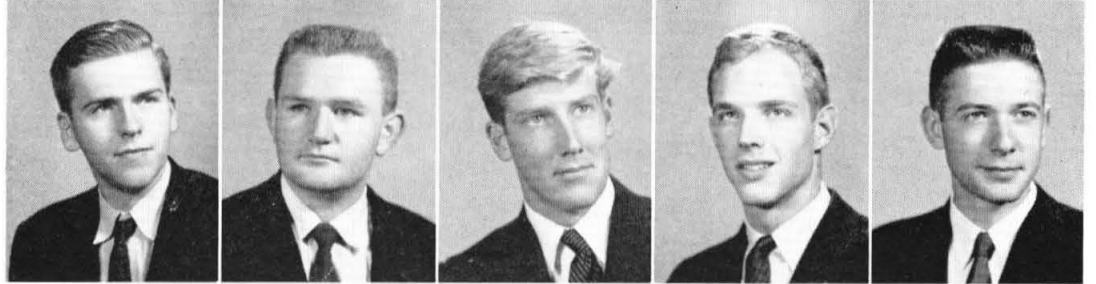




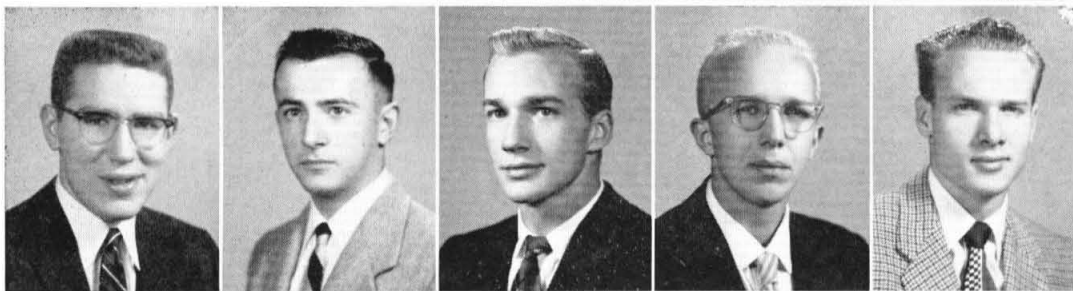
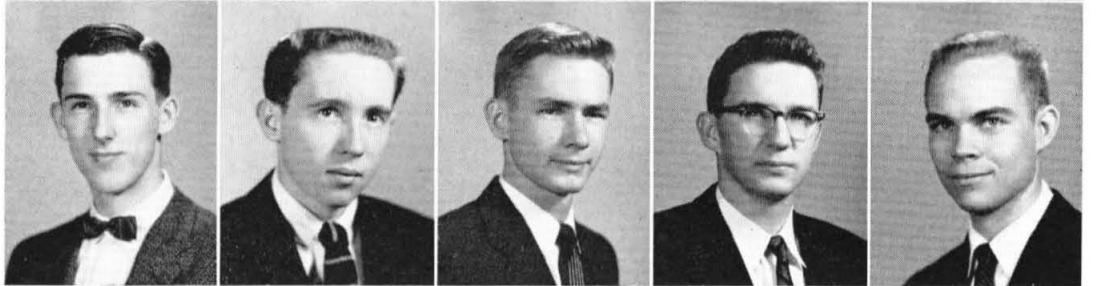
Rube Moulton  
 Carl Nelson  
 Ed Nelson  
 Sonny Nelson  
 Wayne Nelson



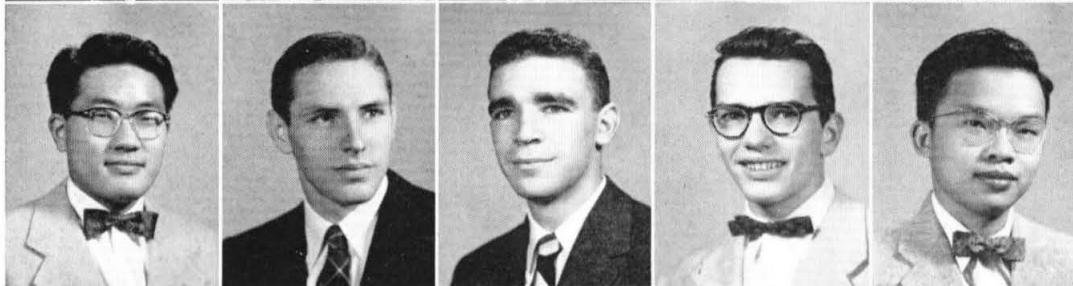
Dick Neville  
 Frank Nowak  
 Ed Park  
 Sam Phillips  
 Dick Pratt



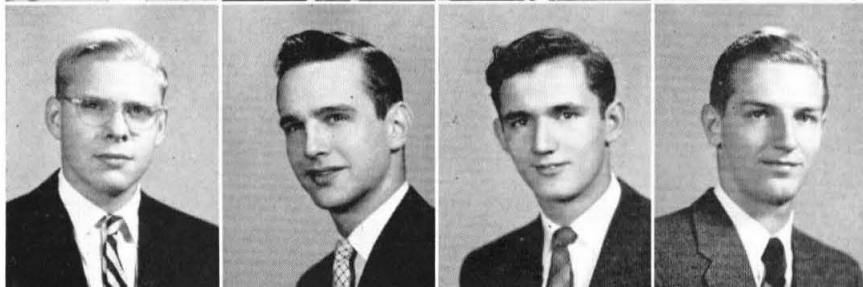
John Price  
 Phil Reynolds  
 Stu. Richert  
 Doug Ritchie  
 Howard Rumsey



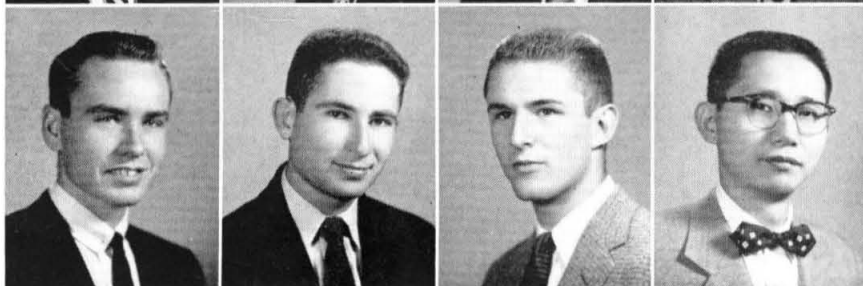
Frank Schroeter  
 Tom Slanger  
 Hunt Small  
 Roy Stake  
 Joe Stuteville



Kay Sugahara  
 Marty Tangora  
 Dave Tansey  
 Vince Taylor  
 Tran Truong



Jon Valbert  
 Dick Van de Houten  
 Dick Van Kirk  
 John Varaday



Ron Wann  
 Walt Weiss  
 Jim Workman  
 Tetsuo Yamane

subsided and the new year began, Ricketts could look forward to another year of going a lot of places and doing a lot of things and having a lot of fun in the process. Marty Tangora took over Higgins' gavel as president, while Doug Ritchie stepped into the vice-presidential job to take over the UCC and the proverbial Associates Program. Mike Godfrey and Vince "I don't know if I ought to go on with the punch line" Taylor took over the social program, Brent Banta and Tony Leonard took charge of athletics, Russ Hunter was going to keep ye records, and Roy Stake was going to keep his hooks on the money; everybody was going to have another hard-working, free-wheeling, slap-happy year in Ricketts.

Senior Ditch Day third term found the Rowdies somewhat cramped in their activities, with the passing of a set of rules to govern the madness of the day. Certain things could no longer be done to seniors' rooms. Nevertheless, ingenuity combined with freshman brawn, and a few memorable conditions greeted returning seniors. Sam Phillips, the six-foot-two-plus gangling monster was continually complaining of the dwarflike status of the world about him, so he found his room shrunken to half size, vertically at least. The perpetual litter of Dick Pratt's domicile was changed to spotless cleanliness by a few hard-working slaves, and as a result: Pratt couldn't find a thing for two weeks.

Along with developing "reverse" Bridge and a new type of twelve-man basketball involving a goalie in Millikan's Pot, Rowdy ingenuity found expression in the house Golf Party. Each alley manufactured a course leading to a hole, and each tried to outdo the other in intricacy and difficulty. No one managed to work his way through the mass of plumbing, traps, boards, canvas and old tires in the 32 par, but no one was critically injured from flying golf balls, so the evening was considered a success. The Carnival was a lot of fun, a little money, and a source of interalley competition also. The only disappointment of the affair was Crud Alley's Casino; run by professional gamblers, it managed to lose about a dollar all night. A Catalina Party rounded out the social program with a huge one-day blast on the nearby island; about one hundred people enjoyed fine beach weather, eating genuine three-dimensional ham, and dancing . . . not to mention the ride back under the stars.

Never a dull moment . . . not even at night. Near the end of third term a unique wave of vandalism swept the house, with doors disappearing from their doorways in the middle of the night. The mystery deepened until Sherlock Fretwell awoke to discover Vandal David Cantor, perennial freshman and junior locksmith, working on his portal. So Big Lyman got some of the boys together and "parked" Cantor's car for him . . . in the basement of Throop Hall. By lifting the little Austin bodily, they managed to wedge it in between the left hand set of stairs and the lockers so snugly that a visiting reporter from the L.A. Times concluded that they must have disassembled it to get it into such a place.

So as the year drew to a clanking close, one could almost hear the concrete walls of Ricketts sigh with the immortal scripture above the courtyard door, "**Stet fortuna dmsus**" . . . fortunately, the house stands.

Marty Tangora  
Frank Albini





FIRST ROW, left to right: Dick Cooper, John Moser, Mike Duke, Jime Rode. SECOND ROW: Paul King, Gene Nelson, Mike Rusch, Jim Lloyd.

Whenever the off-campus man wants to get together with his buddies, or just relax after the rigors of a class "snow job," he will, more than likely, turn his steps toward Throop Club. It is here that many of the off-campus men spend their leisure hours, whether it be playing ping-pong, joining in a lively card game, shooting the breeze with their friends, or just settling down with a good magazine.

No matter what time of day it is, there always seem to be card games in progress; hearts, bridge, gin rummy, double solitaire—take your pick. Games seem to go in cycles. Bridge is ever popular, but hearts and the nerve-racking (and card-wrecking) game of double solitaire have been rapidly gaining in popularity just recently. Even "pure" Jim Lloyd (with two 11's) has fallen victim to the frustrating existence of a double solitaire fanatic and can be seen spending many blissful hours frantically slapping his cards on the table and periodically screaming at the inevitable kibitzers to "Get you --- ---- (naughty words) hands off the table."

A good group of officers headed by prexy John Moser and veep Jim Lloyd have led the club to a successful and spirited year. Under a program of club improvement, this hard-working group which also included Jim Rode, secretary, Dick Cooper, treasurer, Mike Duke and Gene Nelson, social co-chairmen, and Mike Rusch and Paul King, athletic co-managers, held a heavy hand over Throop's activi-

ties and kept things going smoothly in the club, even though a few cries of "railroad" could be heard first term when it was decided that a raise in dues would be necessary.

Throop's social program, one of the club's most important activities, was a full and varied one this last year. Social chairmen Duke and Nelson were, in fact, so ambitious that they even continued the social program through the summer months, providing a bike ride, several beach parties, and trips to the Hollywood Bowl. With the opening of school again came the old standby barn dances, theater parties, record dances, bowling parties, exchanges, and the like, plus several new innovations such as the initiation party and the picture board party, which provided the Throopers with good week-end entertainment.

As the week end of the interhouse dance approached one could walk into the club and find in progress the feverish preparation for one of the best interhouse displays ever seen in Throop. The large size of Throop's lounge poses very definite decoration difficulties, but in spite of this one could step into the club's "20,000 Leagues Under the Sea" and find every bit of wall or ceiling covered with paper and paint. Entering a hole in the side of a wrecked ship those attending the dance found themselves in a complete underwater setting. In one corner could be seen a superb reproduction of Captain Nemo's



wrecked "Nautilus" complete down to the glowing eyes and the hundreds of shining rivets. A large overhanging cliff which contained Nemo's grave and a small grotto took up half the wall space. Here and there fish, large and small, swam slowly by the cliff. Near the base of the cliff stood a diver peering into an open treasure chest, while the bubbles rising from his helmet filtered up through the waving tentacles of a huge thirty-foot squid.

Other outstanding events such as barn dances and snow parties kept the Throopers versatile in style, technique, etc., etc. The snow party at Tech's ski hut was a roaring success despite a definite lack of that white stuff on the ground. But then, they did eat well and Tracy Atherton's guitar, n-person hearts games and the jovial chaperones, Mr. and Mrs. Bob Huttenback, kept the evenings gay.

Taking note of the mess the lounge was after Interhouse Week, the club decided to go on a beautifying binge. Although rubble from the dance still sits in the courtyard, the lounge has been made more livable by the addition of two rugs and numerous lampshades to disguise the ancient and disreputable chandeliers. With one more addition, that of the Throop Club Cymbal (soon to become a tradition—maybe), the room decor has been made almost complete.

A highlight of the year was Throop's first real attempt in years at a frosh initiation. Under the leadership of Mike Moore, initiation this year provided a very promising group of new freshmen the opportunity to get acquainted with their fellow Throopers and to learn something of college life in one quick hurry. Although not immediately obvious to many of the frosh, initiation was run with the idea in mind of providing fun for all and avoiding undue embarrassment or hardship to them. For two weeks, nattily attired in black hats and bow ties, the frosh went through a thorough indoctrination. Water fights, a trip to a Glendale sorority, a haunted house expedition and the like were all part of the routine. Then, finally came initiation night. After the more formal part of the initiation was over, Moser, because he was president, Moore, because he was pledgemaster, and Talbot, just for the hell of it, were thoroughly soused with whipped cream, shaving lotion, tomato juice and water, and things settled down into a nice quiet little riot. With the freshmen providing entertainment and plenty of liquid refreshments available it turned into quite a party.

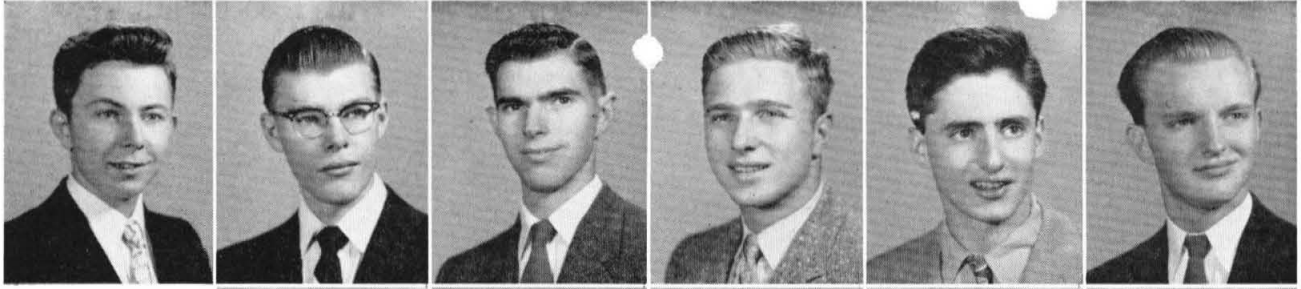
Throop, although small compared to the other houses in regard to membership, still manages to field good interhouse teams. The Throopers make up for their lack of size and depth with an abundance of spirit and drive. This last year the off-campus men boasted a second in tennis and a tie for first place in interhouse basketball.

With a capable group of new officers replacing Moser's old crew, things look good for next year. In the recent elections Mike Duke was chosen to head the Throops, with Mike Moore assisting as veep, Kirk Irwin handling the secs, Art Rosenthal pinching pennies, Chuck Malone, Gene Robkin, and Robin French providing the night life, Jay Clearwaters and Eric Rix ready to drag the ROTC boys out for athletics, and Dick Mittleman holding down the responsible position of house virgin.

Now we are ready, after this brief look back on the past year, to bid those among us who must leave, farewell, and to look to the future for an even brighter year ahead than this last has proven to be.

John Moser

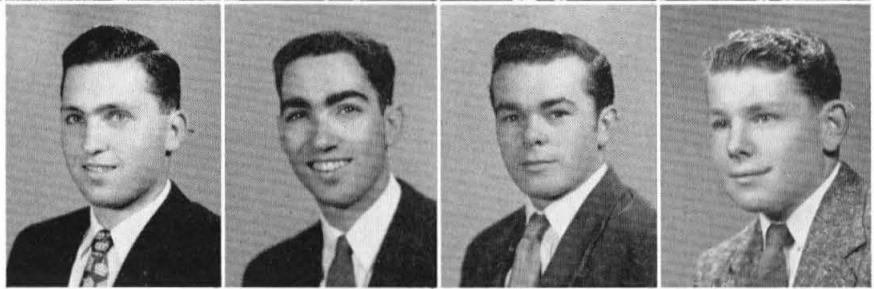




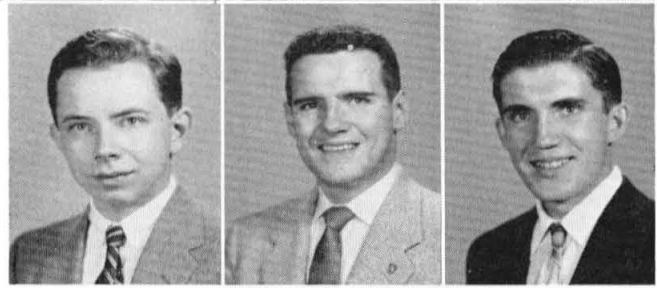
Donn Allen



Vladimir Baicher  
Bob Chapkiss



Gene Barnes  
Mel Cheslow  
Mike Duke



Arlen Bell  
Dick Cooper  
Steve Emanuel  
Dave Himrod



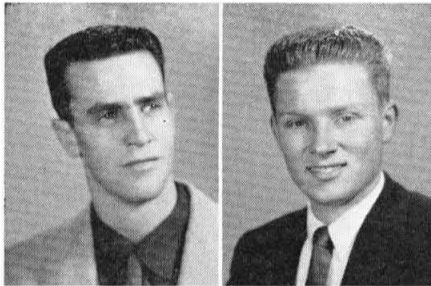
David Bregman  
Scott Davidson  
Jim Giles  
Kirk Irwin  
Paul King

Paul Calaway  
Hugh Dubb  
Bob Harmon  
Mike Kiefer  
Bruce Kowol

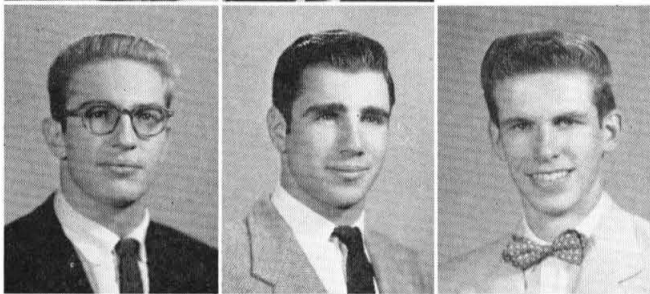




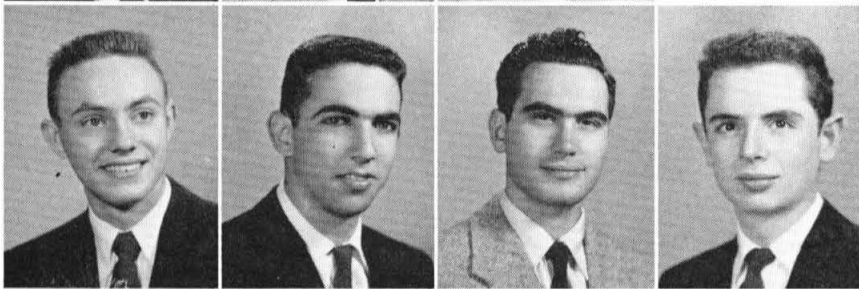
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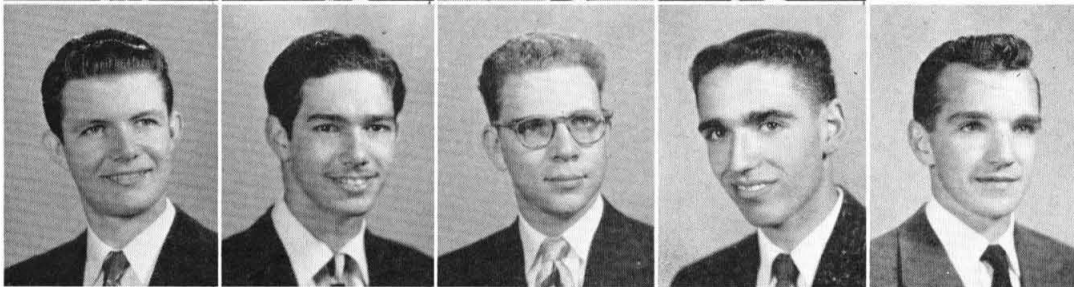
Larry Kraus  
Tom Lovejoy



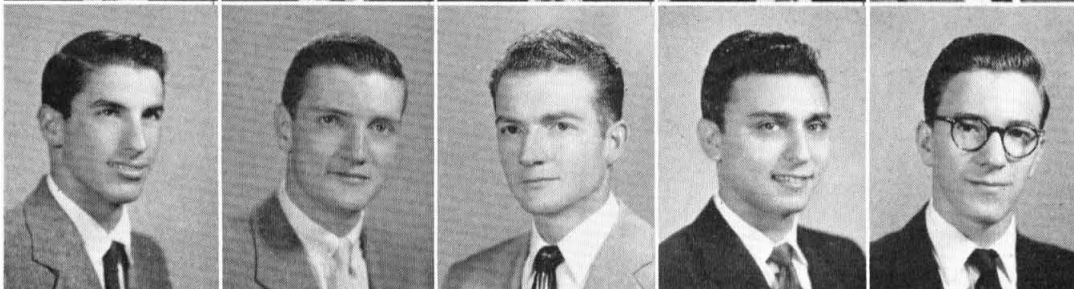
John Moser  
Steve Nathanson  
Hugh Palmiter



Bob Polansky  
Allan Porush  
Jerry Pressman  
Gene Robkin



Jim Rode  
Art Rosenthal  
Ed Royce  
Mike Rusch  
Charles Sargent

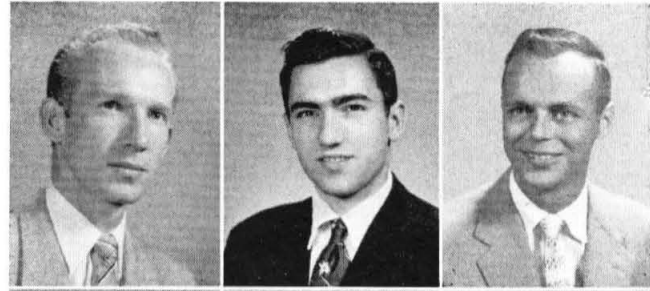


Thomas Schumann  
Gene Stanley  
Stan Taylor  
Raymond Virzi  
Jim Wilkinson



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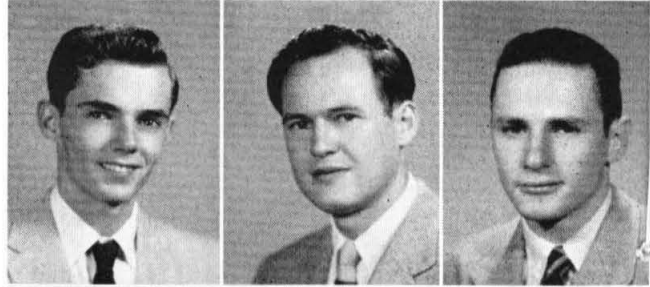
Tracy Atherton  
Bob Chandos  
Richard Clark



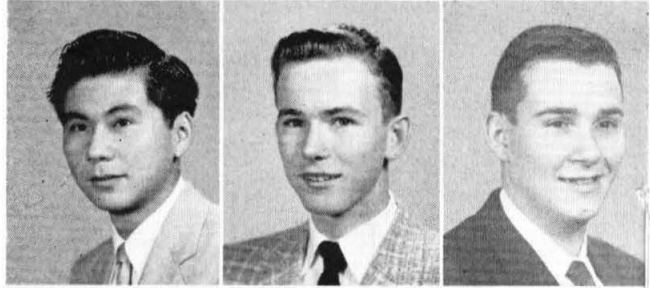
Aldo Di Loreto  
John Evesett  
Rod Farris



Thomas Gibson  
John Gliever  
Peter Gottlieb

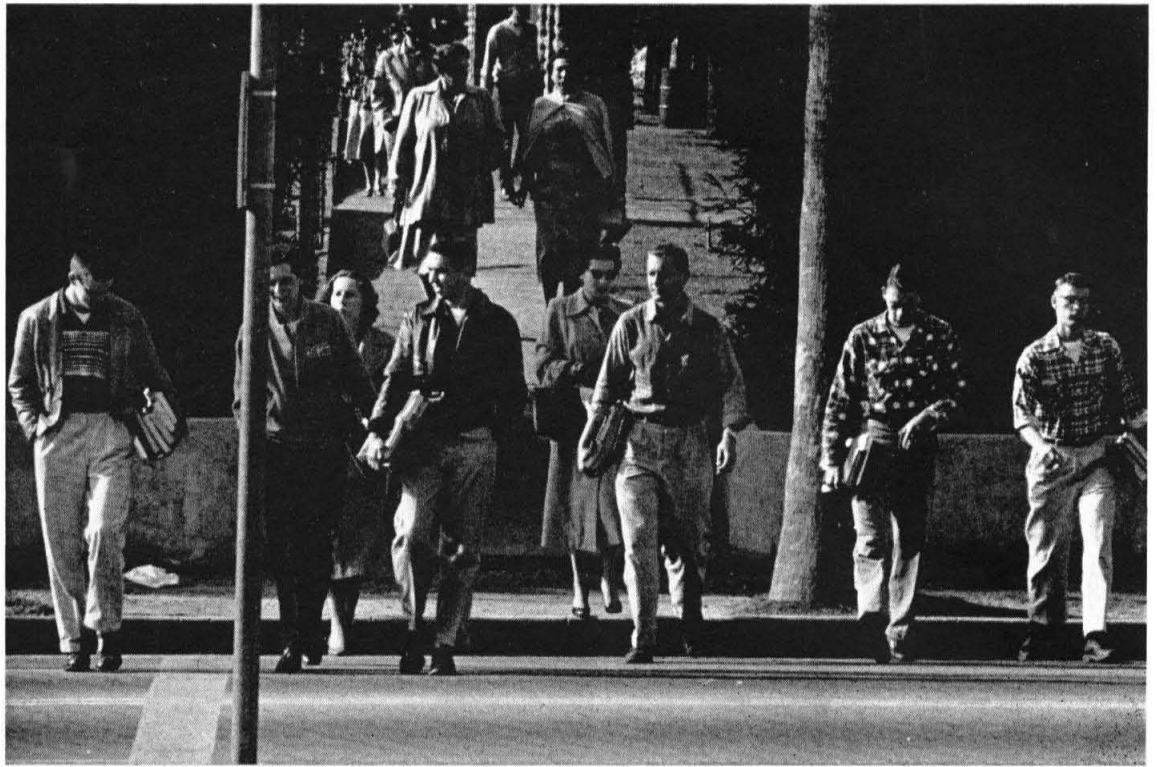


Kanau Kawashima  
David Luenberger  
Bernard Malofsky



Peter Melia  
Paul Lindfors  
Harry Patapoff





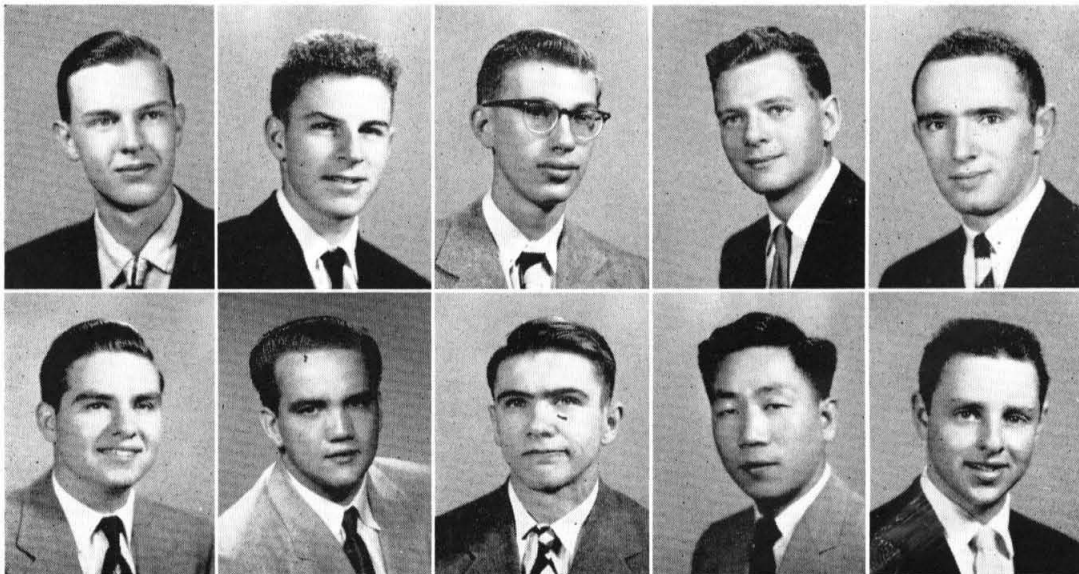
Lee Schmidt  
Walter Schaal

Howard Sturgis  
Edward Shuster

Don Roberts  
William Wagner

Ronald Rockey  
Lee Wonyong

Gene Rubin  
Hal Yura





FIRST ROW, left to right: Ted Flinn (Blacker), Dr. George Mayhew (Master of the Student Houses), Denver Gore (Dabney). SECOND ROW: Ron Shreve (Ricketts), Lloyd Best (Fleming).

***resident associates***



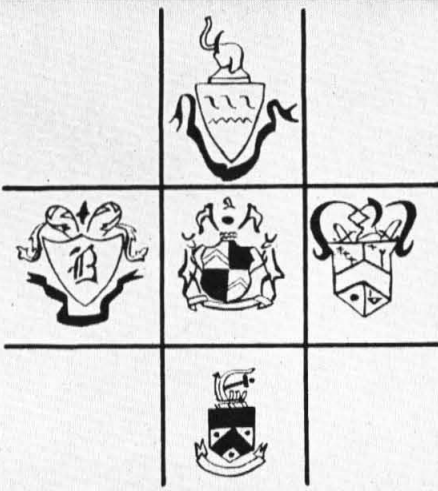
*student  
house  
staff*

SEATED: Wilda Southworth. STANDING: Frances Dunlap.

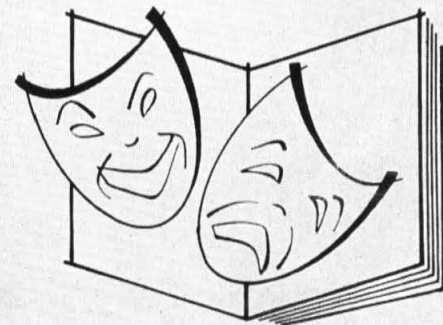
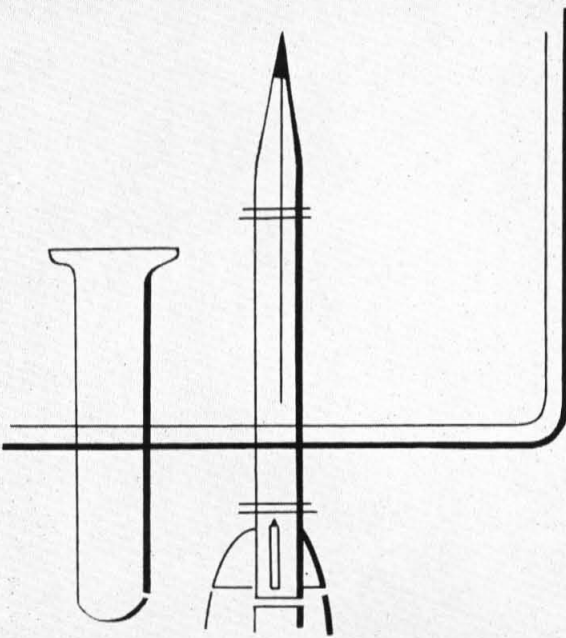


SEATED: Amelia Lang. STANDING: Ned Hale,  
Winnie Yurich.



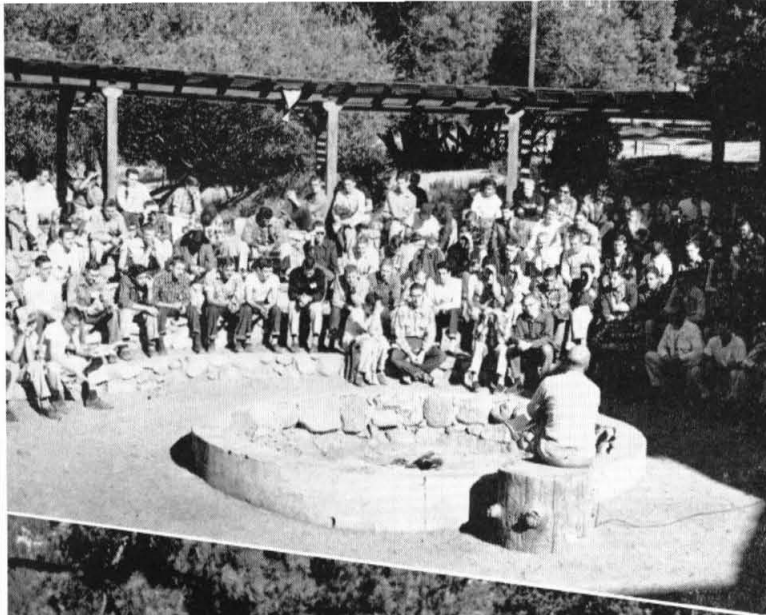


*activities*





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Late in September many suitcases laden with frosh appeared on campus—the year had started.

The housing situation was tighter than usual this year. As the out-of-state frosh moved into the student houses, and looked around, new students from California found housing off campus and wandered back to the student house lounges to waste a little time. To the old-timers, the scene was familiar. One upperclassman wrote:

Dear Mom:

I just thought that I'd write a short letter to let you know that I arrived safely. The weather is fine, and I can almost see the mountains through the smog and haze. Except for last year's seniors, most of the fellows are back again, and it looks as though we are going to be quite crowded this year. In a couple of hours the freshmen will be going to Frosh camp, and we will have a few days of peace and quiet. You needn't worry about my studies or about my wasting any time. School hasn't started yet, but I've already spent several hours at the bookstore looking at new materials that they have acquired and picking up some stimulating things for my spare time. Well, I must say goodbye for now, as several people from Caltech and Scripps (a nearby college closely associated with us) are collaborating on moisture experiments later on today, and I must get ready for the work.

Your studious son,  
Jim

Now that all the frosh were unpacked, they found that they had to take another trip. All new students left smog-bound Pasadena to visit Caltech's iceberg in the San Bernardino Mountains, Camp Radford. There they received the "true clue on Tech" from faculty and upperclassmen. After three days of talking, softball, mountain golf and the Grand Amalgamated Concert, the frosh descended from the hills and ran into the first day of classes.

Rotation started that day, the houses began to wine(?) and dine the newcomers until the frosh began to feel, after a week of classes, "I'm already three weeks behind."

The frosh took a look at the houses and the houses looked over the frosh. After midnight meetings, much talking, and more smiling, the frosh and the houses made their choice. One negligent freshman finally wrote:

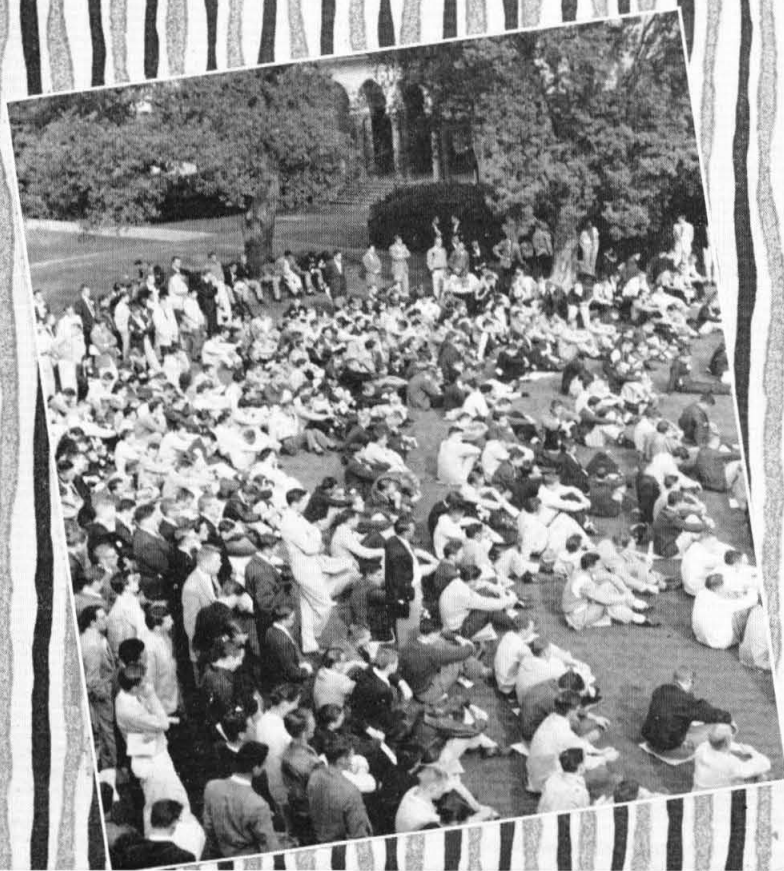
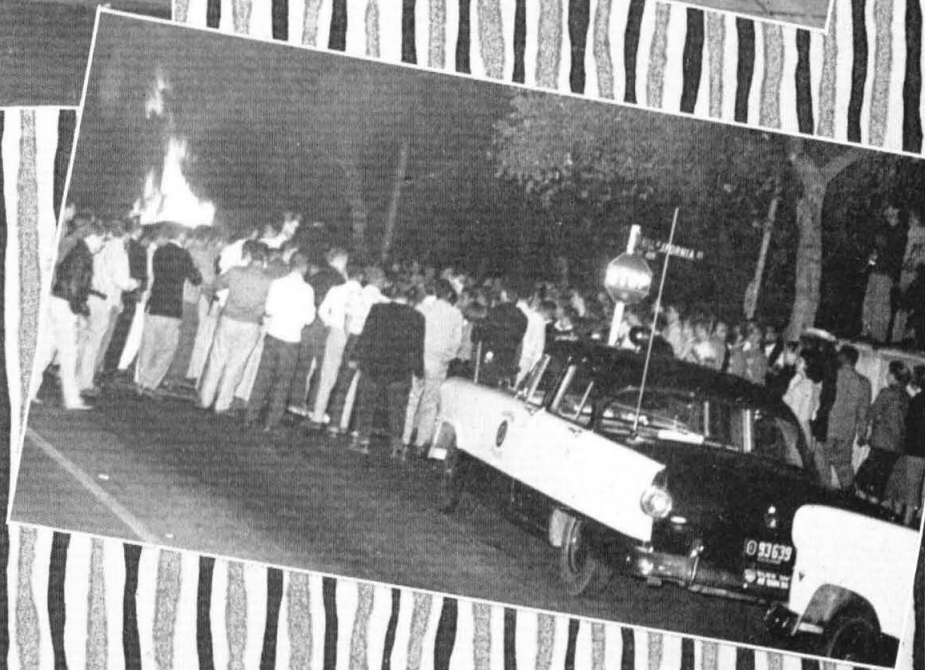
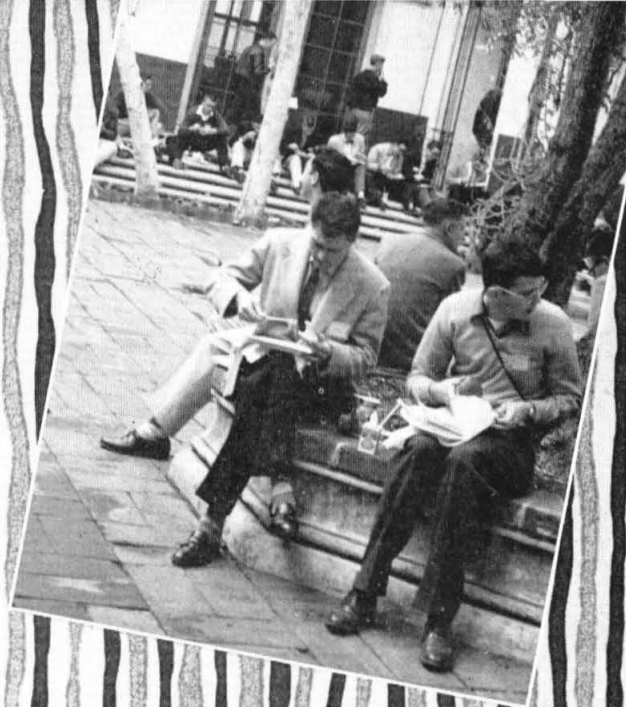
Dear Mother:

There has been so much to do that I haven't had time to write until now. Camp was quite nice, but a bit cool at night. We played mountain golf, softball, listened to our own band (The Grand Amalgamated Band) and heard "the true clue" from the profs and fellows. They all seemed to intimate that school might be a bit difficult, and I know now that they were right. I already feel that I'm far behind in my work.

After camp, classes and rotation started. Really, all of the upperclassmen are great! Some don't seem to study very much, and some do, but they all seem to get a "large charge" out of the school. At midnight the upperclassmen seem to have some curious habit that they have developed. They all gather in one room and stay there for about an hour, and when they come out, the room seems full of smoke.

Tomorrow night we all pick our house, and the houses pick us. It will probably be very difficult for the houses to decide on us, since we are all treated so well. Goodbye for now, as I must study.

Reggie





Once the frosh were in the houses, the smiles dropped and the water began to flow. Initiation and water fights became the vogue. The yearlings appeared costumed as striped and numbered criminals, motorcycle policemen with bare legs, firemen and derby-hatted men about town. After a week of water and insults, the frosh were initiated into the houses.

The houses settled down to field teams for interhouse softball and cross-country. Social chairmen arranged a whirl of exchanges, parties and dances, and Techmen polished up their bird-dog technique and merrily set about cutting throats.

A junior beach party was the first class function of the year; the class of '57 fled to the beach and flexed their muscles at the last beach party of 1955.

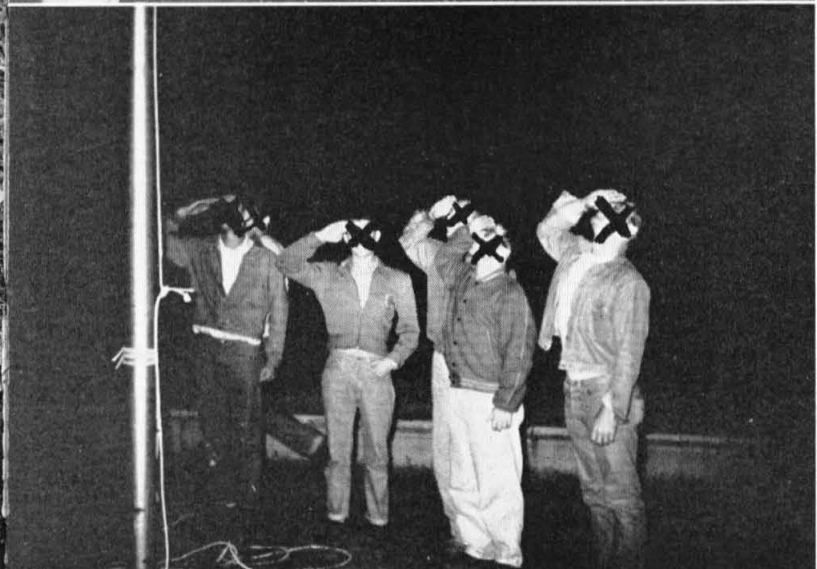
On the football field the Beavers ran wild, topping Cal Poly at San Dimas 19-0 to win their only game in four years.

Jubilant rooters returned to Tech and held a victory bonfire—in the middle of Hill and California Streets. The local gendarmery objected, but not until the fire had been burning for half an hour.

Eight police cars, two fire engines, two "paddy wagons" and 15 minutes later the







celebration was somewhat dampened. The celebration (not to be confused with riot) had dwindled to near extinction when a palm tree in the vicinity of TP belched flame 150 feet into the night air.

A box score for the evening showed one burnt palm tree, one badly scorched street, a \$225 tab from the citizens of Pasadena, and three Techmen who became temporary guests of the city.

Turning to a more cultural pastime, some of the students again attended Dr. Daryl Dayton's highly successful Thursday evening music lectures.

As usual, Interhouse and mid-terms arrived the first week of November and undergrads split their time between preparations for the Interhouse and books.

Countless man hours and \$2500 were poured into the dance to make it the highlight of the social season.

Blacked flooded its courtyard and built a smoke puffing, paddle wheel steamer to carry out its New Orleans theme. Couples made their way past cotton bales, through swinging doors and into the Blacker lounge which was converted into a bawdy (if dry) bar.

Throop Club selected "20,000 Fathoms Under the Sea" for its theme. The lounge

became a scene of wrecked ships complete with the sunken "Nautilus." Guests received punch from a bowl beneath the clutching tentacles of a giant squid.

Visitors could wander through the Orient at Ricketts, which built its courtyard into an exotic garden of the Far East. The lounge was a Buddhist temple watched over by a huge pot-bellied Buddha.

Entering Fleming over a bubbling moat, couples found themselves in an ancient castle guarded by knights in armor. Passing from the main hall of the castle, guests found themselves treated with an old-fashioned torture chamber which featured a rack and an artistic sprinkling of blood.

Dabney was a "Dreamland" for the evening. Guests danced in the courtyard next to "Dabney's Dancing Waters," a pool that raised jets of water 50 feet high and dropped them in brilliant sprays under the glitter of multicolored lights.

Passing snow-capped mountains, visitors entered the lounge through a wooden bridge. The lounge was in blue with fluffy clouds overhead and the walls covered with a silhouetted city, stairway to the stars, and a large pink and gold harp.

The week after the Interhouse Paul G. Hoffman was the guest of the Caltech Y. Mr. Hoffman was the first of a series of visitors in the new "Leaders of America" program. He gave a series of talks in the houses and met and talked informally with students for four days. Eating his meals in the houses, Mr. Hoffman became acquainted with Caltech undergraduates, while giving them a chance to meet and talk with a leader of American business and economy.

Tech-Oxy rivalry took on a new feature this year, coeds. Caltech selected a queen and two princesses to reign over Homecoming activities. The celebration started with a dinner at Brookside Park before the game. Techmen then went to the Rose Bowl to root for a losing team. The score: Oxy 35, Caltech 7.

Homecoming Queen Sandra Nash, a student at Immaculate Heart College, and her princesses, Micki Hale from PCC and Georgine Johnson from UCLA, were presented to the student body.

An after-game dance for students and alumni was held in the Scott Brown Gymnasium. There was no bonfire.







The juniors brewed some mud in TP and the sophs and frosh wallowed through it in the annual mudeo. The junior judges threw some mud in the soph machine; the sophomores soon found their heads in the mud, the frosh on top and their treasury out the price of a dance.

Taking advantage of judicial laxity, the frosh won the last event of the contest and oozed to an unheard of win over the sophomores. The class of '58 thus became one of the few classes to pay for the Soph-Frosh dance two years in a row.

On the week end following the mudfest the Sophs hosted the yearlings at a stag picnic in TP where the classes played football and ate hot dogs.

Richfield Oil decided that Caltech was a success and featured Tech on its weekly TV show, "Success Story." Several camera crews were stationed around campus to televise Caltech features such as the hi-volts demonstration, a hydrofoil experiment, and Dr. Pauling discussing molecular structure.

Tech debaters, under a new coach, Dwight Thomas, took their annual laurels in Southern California contests. The debaters also journeyed to the Western Speech Association tournament in Parkland, Washington. Not doing as well as they did last year, when Tech won the tournament, the team still managed to reach the quarter finals.

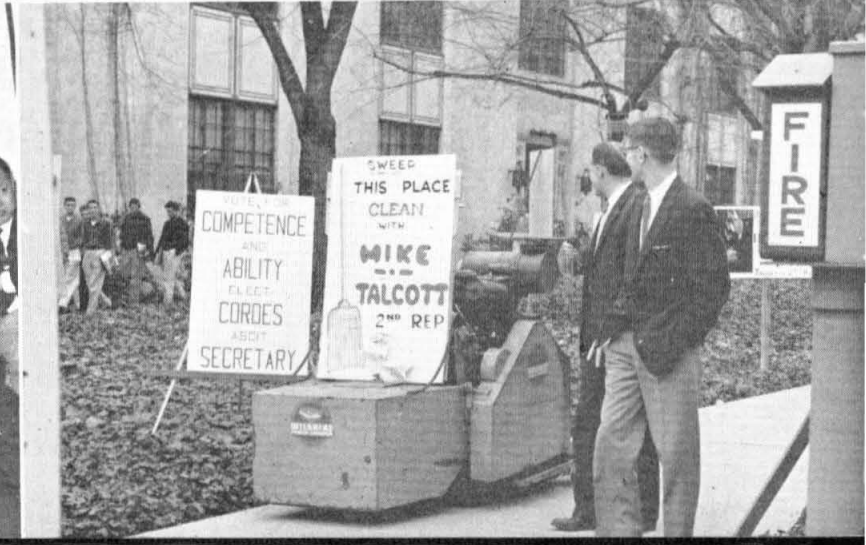
Thanksgiving arrived and most students left to spend the holiday at home. Those who lived too far away to trek to their own home dining table, were guests of families throughout Pasadena and San Marino.

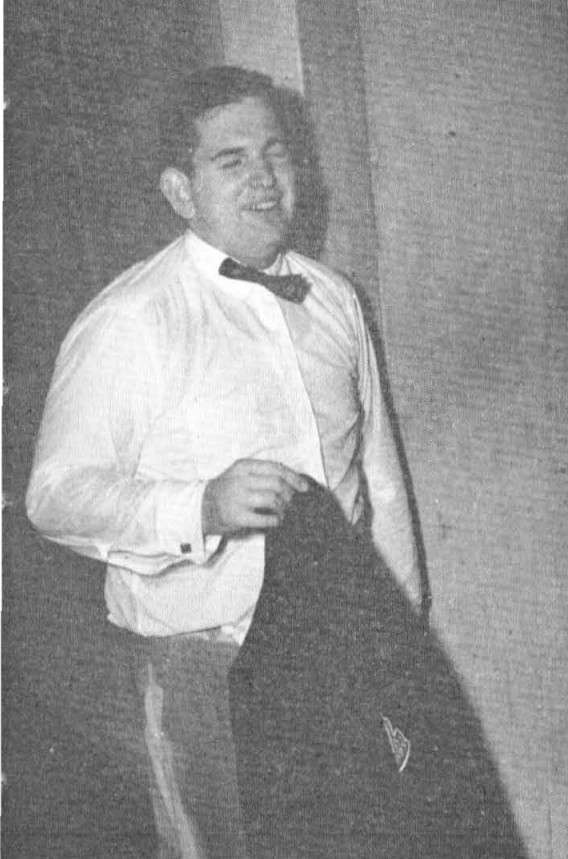
Students returned from vacation with the taste of food in their mouths and aware of the fact that it was two weeks before finals. The more astute began to feel that it was time to hit the books and the social and athletic programs sputtered to a stop, but not before one last social fling the first week in December.

Dave Pell and his octet played at the annual Christmas dance in Dabney Lounge. Couples brought toys, which (after being worked over by collegiate Techmen) were given to the Community Chest. The Chest distributed them to children who might not otherwise receive Christmas gifts.

Also on December the third, the deluge hit. Thousands of high school students swooped on campus for a day, ate in the student houses, visited exhibits in science and engineering, and listened to some







afternoon lectures by members of the faculty. Students Day gives these young men a chance to taste of the atmosphere at Caltech.

ASCIT recognized its athletes at the fall sports banquet held in Brookside Park. Dr. David Elliot was master of ceremonies for the event. Letters were presented to football, soccer, cross-country, and water polo players. This was the final student activity of the year.

This was the final event of the year, except for finals, of course. The newly acquired studiousness of the less scholarly upperclassmen and the worried, nervous scurrying of the freshmen as they hurried from class to class, computing and recomputing their prospective GPA's was clear evidence that the fateful days were near at hand.

Almost concurrent with final exam week was the announcement that the Caltech unit of the AFROTC would be disbanded because of economy measures. A gallant sophomore, already used to the grind of finals and their aftereffects writes his parents:

Dear Mom and Dad:

The Caltech ROTC unit is being discontinued after the end of this year, so it looks as though I might have more trouble getting a deferment than I thought I would have. I hope this doesn't spoil any plans that we've made.

But care! Finals are over! I'll be leaving tomorrow at 11:00 o'clock a.m. and I'll see you at the depot Friday morning at about 12 noon. Life is great! How about a cherry pie for dinner? (hint.)

See you all soon,  
Jim

January and second term started about the same way that September did, only with slightly less students. Those that did survive could look forward to ASCIT elections, house elections, class elections, candidates' speeches, etc., etc. One freshman wrote home:

Dear Mom:

Well, I'm back in school and registered again. Christmas vacation was really swell, seeing the family and all the gang and the old home town. Sure hated leaving it again, but somehow the Houses here at school are beginning to feel like "home," too, in a funny sort of way.

I just happened to reach in my pocket a while after the train left, and found the extra car keys. I'll send them to you as soon as I find a small box to put them in. There isn't very much new, all of the fellows are back again, the hi-fi's are on around the clock, and Seldeen is down in the lounge screaming "Fourth!" across an empty bridge table.

Some of the guys are going to Bob's for a cup of coffee and some doughnuts, so I guess I'll go along and mail this on the way. Write soon.

Love,  
Jim

Before the amateur politicians could get started, the professionals got into the act. The Caltech AFROTC unit, disestablished in December, was now re-established or undisestablished or something like that. Although this new turn in events caused some concern in the nonantidisestablishmentarianism faction, it was met with wild rejoicing (well, almost wild) by the unnonantidisestablishmentarianism element.

The houses turned to cultural competition for the annual Interhouse Sing. Blacker, Dabney, Fleming and Ricketts urged, prodded and threatened their membership until almost all house members participated in the Third Annual Interhouse Sing. Ricketts rode over the opposition to duplicate their victory of last year and retain the trophy for another year.

Justice William O. Douglas of the U.S. Supreme Court was the second guest of the Caltech Y's Leaders of America program to visit Tech this year.

Justice Douglas and his wife stayed on campus four days, getting acquainted with many students through a number of informal groups. The Douglasses ended their highly successful visit at an open house at the home of Ed Hutchings.

Every January the industrial giants of the American economy invade Caltech to hire the brilliant scientists and engineers that will someday lead United States business. (They hire the rest of the seniors, too.) These sterling graduates manage to shave, put on their best suit, go to see where they can best push forward the frontiers of science. Strangely enough, this is usually the highest paid job.

Enough of this mercenary drivel. February is the time for politicking, which in turn is the time for smiles, speeches, and more smiles.

One Thursday morning in the middle of the month several people showed up in Culbertson and made some speeches; the result of which was several people running for several offices.

Campaigning got off to a fast start. The troops in the houses got indigestion trying to gulp down cold meals between campaign speeches and the ice plant became the home of several signs extolling votes for one candidate or another. Even B & G got into the act with a mobilized sweeper and poster saying, "Make a clean sweep with Talcott."



One student wrote:

Dear Dad and Mom,

Boy, have things been hopping! More politics and political doings than the old home town, if you can imagine it. Student Body elections are really something. Each candidate bribes, begs, or drafts his buddies to help him write letters, make posters, or think up slogans. And our meals have sure been fouled up, what with four or five candidates giving speeches during lunch and dinner. The briefest get the longest applause.

Last night was really fabulous! We had an election rally, quite a politically maturing experience. All of the guys in the school crowd into Culbertson (the auditorium) and partake of a full evening of serious politicking. Each of the candidates (or group of them) present short skits depicting some aspect of campus life or some goal they wish to attain. Of course, there are refreshments—root beer and the like, and to relieve the sober aspect of elections there is a brief entertainment put on by some serious students of the dance. Their interpretation is quite moving—almost uplifting. On the whole, everyone was in rather fine spirits after the rally.

That's about all the news, so till next time,

Love,  
Aleff

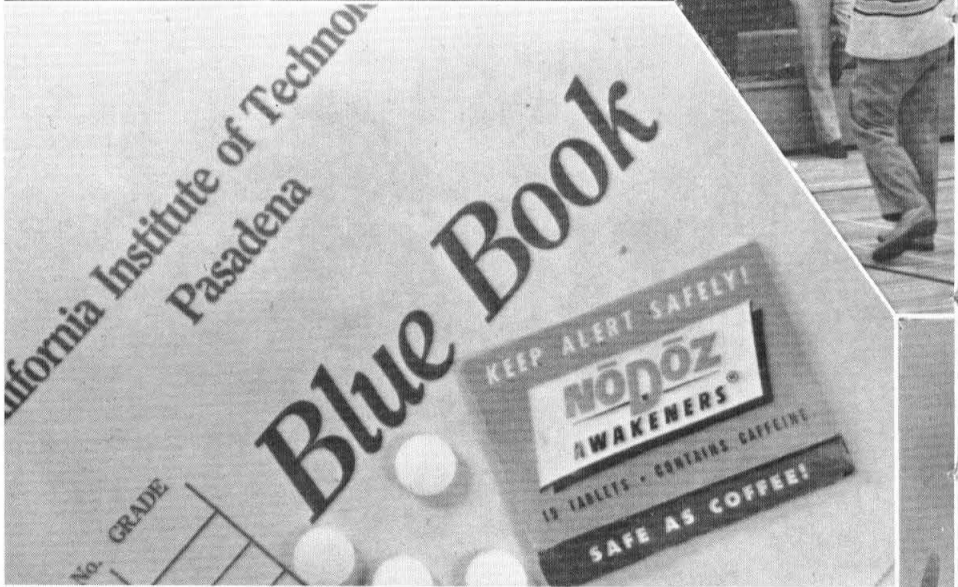
After the shouting and smiling was over, the smoke cleared and Craig Elliott emerged as ASCIT president, Rube Moulton took over Berg's position as vice-president. After a couple of runoffs, Herb Rauch became secretary and Doug Carmichael, second rep. Don Nierlich succeeded Young as treasurer and Dick Kirk stepped into the office of publicity manager. Glenn Converse squeezed into the athletic manager position and Dave Leeson emerged as the new first rep. Chuck Bonwell took rally commissioner after a runoff or so.

The Annual ASCIT Consolidated Charities drive took on a new look this year. The Board of Directors decided to drop the interhouse competition and put the drive on a more personal basis, so the troops went forth on their own. The faculty dinner, which in past years is given to the winner, was dropped and instead some sort of entertainment for all the houses was promised.

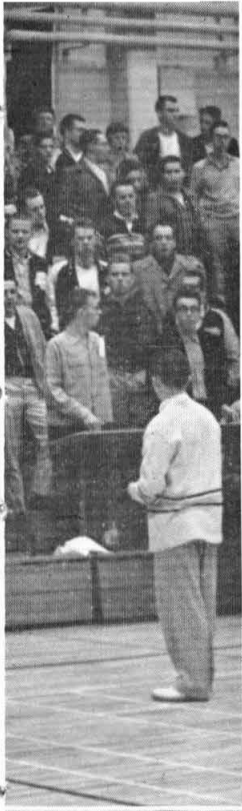
Politics didn't slow down much after ASCIT elections; house elections started rolling right after the ASCIT election board closed down. These campaigns were conducted on more of a personal basis, so they weren't quite so taxing, except for the candidates who wandered about the houses until the wee hours of the morning, talking to anybody who would listen. At long last, this ended second term campaigning.

The two big social events of the winter term were the ASCIT Formal and the ICC Dance. Techmen and their dates spent an enjoyable evening at the Altadena Country Club, scene of this year's formal. The Annual ICC Dance was again held at the Pasadena Civic Auditorium. Couples from all the schools in the conference attended and danced to the music of Les Brown and his band.

As has been the situation for three years, the gallant frosh trudged up the foothills to denude the hillside by whacking out the underbrush in the form of a giant "T." This was done so that the local residents







will always remember Tech: the yearlings came down from the hills.

There was now about two weeks left before finals and what with elections, dances, etc., not much studying had been done. The more academic individuals in the student body resolved to start studying—in week of course, because after all this work, it was time for relaxing.

The time passed until one Monday they descended. For three long days, the agony kept up and finally was over. Students began to ship out for home or any place else, as long as it was away. Some of the more enterprising members of the student body took a ride on the Mobile Economy Run as observers. The trip took place during Spring vacation and eventually wound up at Colorado Springs.

The observers returned slightly more wealthy and considerably more tired and the rest of the students started drifting back for third term, determined, as always, that "This term is going to be different."

Caltech sent a delegation to the Model UN, held this year in Corvallis, Oregon. Ten Techmen went north for a week to spread the glories and fortunes of Turkey, the country that Tech represented this year.

Dr. Ralph Bunche, Undersecretary of the United Nations, visited the campus for four days as the guest of Caltech Y's Leaders of America program. Talking with students in many small groups, Dr. Bunche became acquainted with Caltech and its students during his successful visit here.

Spring term is beach time and all the good intentions of the beginning of the term were forgotten as the mass week-end exodus began. Studies were more or less forgotten (after all, finals were so far away) as students began to turn to the social side of life.

The sophomores were burdened with the ignominious task of giving the Frosh-Soph Dance for the second year in a row. That same evening the Junior-Senior Ball was held and was as successful as the Frosh-Soph Dance.

Third term had its share of elections, too. With ASCIT and house elections out of the way, the classes started choosing their officers. These elections involved a minimum of campaigning and the whole election was conducted rather quietly.

The term was now about half over and, remembering what happened the last two terms, the more brilliant members of the student body started hitting the books.

That didn't last long, though, because it was time for the "Lost Week End." Tech students imported "talent" from all over for this annual week-end affair, which included a day at the beach, a couple of dances and some rather small parties.

The seniors tried a number of ingenious gadgets to keep their doors locked while they went on the annual Senior Ditch Day. As usual, the gadgets didn't work very well and the seniors returned to rooms that had been cleaned out and/or filled up in their absence.

With that bit of byplay over, it was time to settle down for finals, which arrived for the last time of the year.

The literary gem of 1956, the '56 Big T, was made public and the troops fled the institution for three months.

Dick Kirk  
Bernie Lopez





Phil Conley  
President

*board  
of  
directors*



Howard Berg  
Vice-President



Tom Bergeman  
Secretary



John Young  
Treasurer



Jim Workman  
Athletic Manager



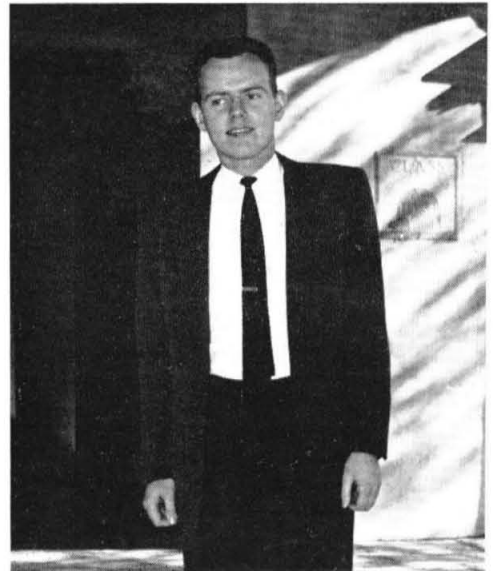
Craig Elliott  
Publicity Manager  
Dick Ashby  
Second Representative  
Frank Kofsky  
Rally Commissioner



Jon Harford  
Publicity Manager







Howard Berg  
Chairman

## *board of control*



LEFT TO RIGHT: Bob Gelber, Dick Kirk,  
Tom Bergeman, Clint Frasier, Bob Huebot-  
ter, Louis Fletcher, Howard Berg, Phil Con-  
ley, Howard Rumsey, Ross Brown, Sonny  
Nelson.



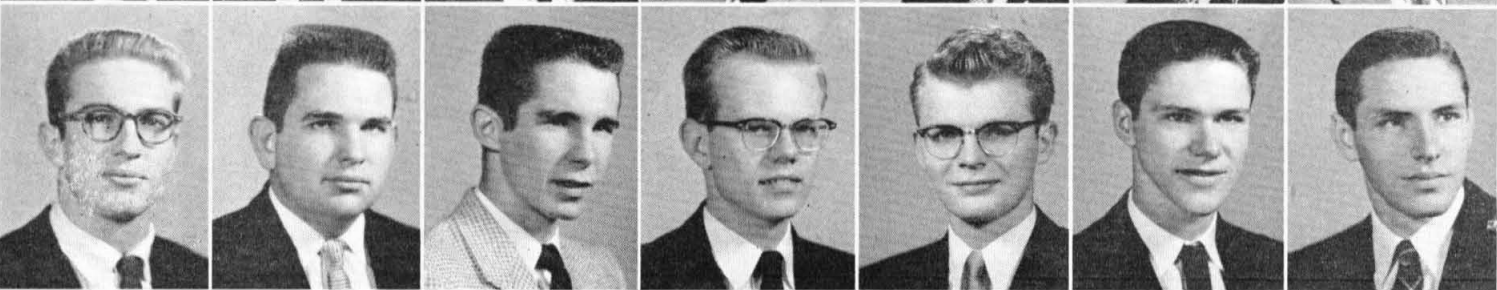
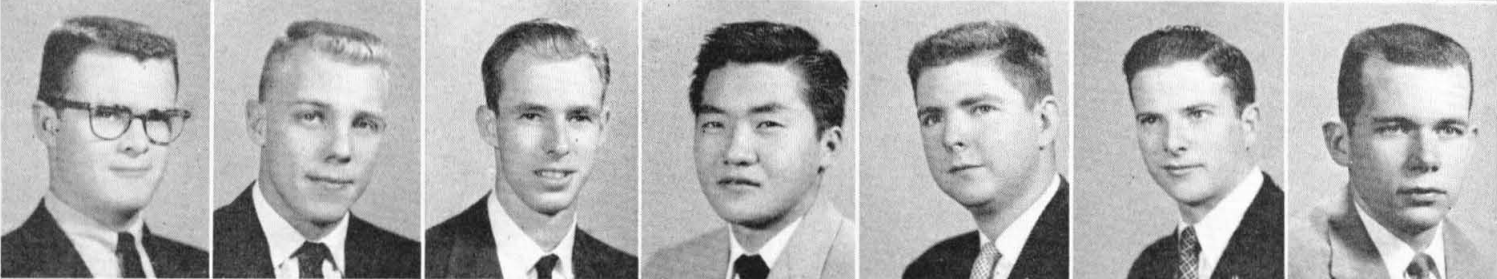
**ELECTION COMMITTEE**

FIRST ROW, left to right: Bill Hecht, John Howell. SECOND ROW: Jack Schmitt, John Kleiderer, Dan Mack, Pete Abbey (Chairman).

## *new officers*

LEFT TO RIGHT: Don Nierlich (Treas.), Rube Moulton (V.-Pres.), Chuck Bonwell (Rally Comm.), Herb Rauch (Sec.), Craig Elliott (Pres.), Dick Kirk (Publicity Mgr.), Glenn Converse (Athletic Mgr.), Doug Carmichael (Second Rep.), Dave Leeson (First Rep.).





Dick Ashby  
Fritz Benning  
Howard Berg  
Tom Bergeman  
Myron Black  
Bruce Blackie  
Mike Bleicher

Craig Elliott  
Pete Finley  
Louis Fletcher  
Warren Furumoto  
Jon Harford  
Jim Higgins  
Dick Johnson

John Moser  
Rube Moulton  
Sonny Nelson  
Don Nierlich  
Walt Petersen  
Herb Rauch  
Marty Tangora



Beaver Officers: Bob Kausen, Curt Schulze, Lyman Fretwell, Jerry Crocker.

*honor*

Howard Berg  
Tom Bergeman

Myron Black  
Phil Conley

Bill Davis  
Craig Elliott

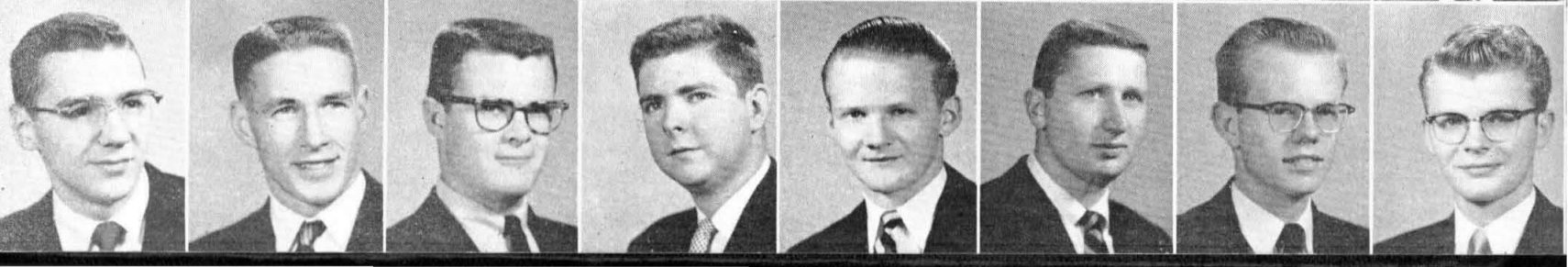
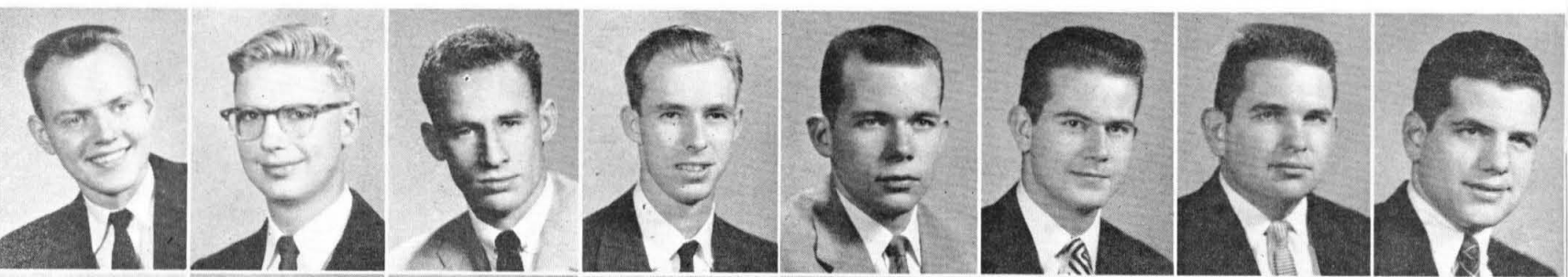
Louis Fletcher  
Jon Harford

Dick Johnson  
Arne Kalm

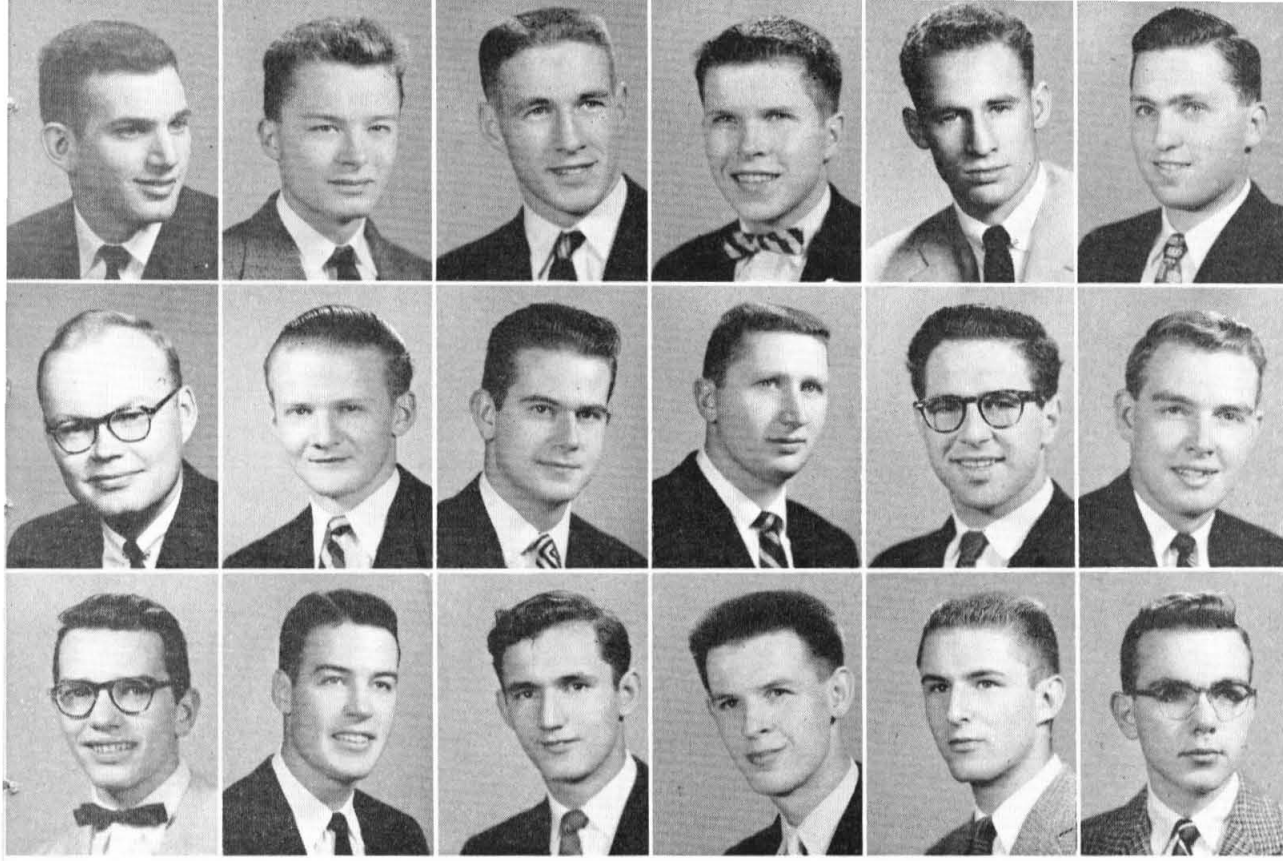
Dick Kirk  
Frank Kofsky

Rube Moulton  
Don Nierlich

Ray Orbach  
Walt Petersen







Howard Bloomberg  
 Doug Carmichael  
 Phil Conley  
 Glenn Converse  
 Bill Davis  
 Mike Duke

Ted Johnson  
 Arne Kalm  
 Dick Kirk  
 Frank Kofsky  
 Dave Leeson  
 Paul Lindfors

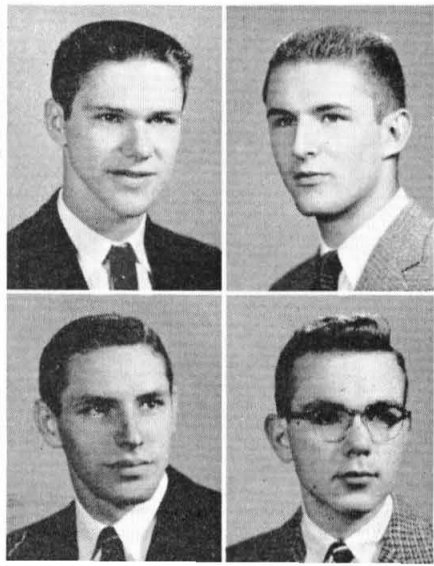
Vince Taylor  
 Fritz Trapnell  
 Dick Van Kirk  
 Jim Welsh  
 Jim Workman  
 John Young

*beavers*

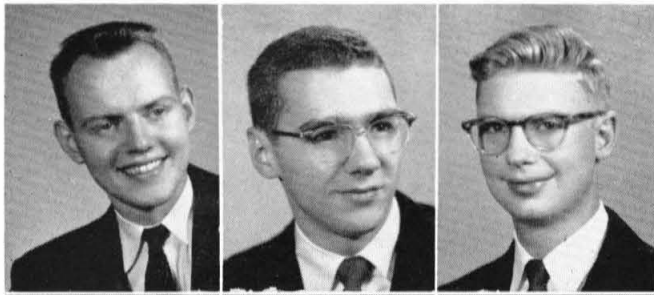
*keys*

Herb Rauch  
 Marty Tangora

Jim Workman  
 John Young

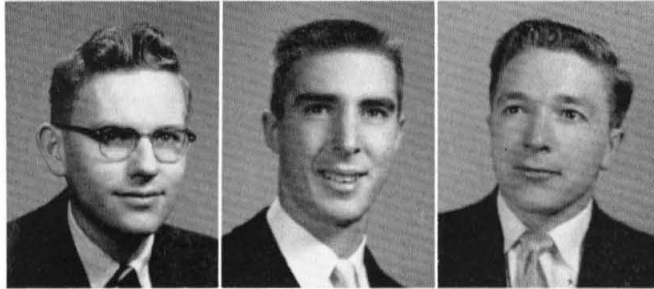


HONOR KEY COMMITTEE  
 Dick Ashby and Howard Berg; not pictured, Jon Harford.

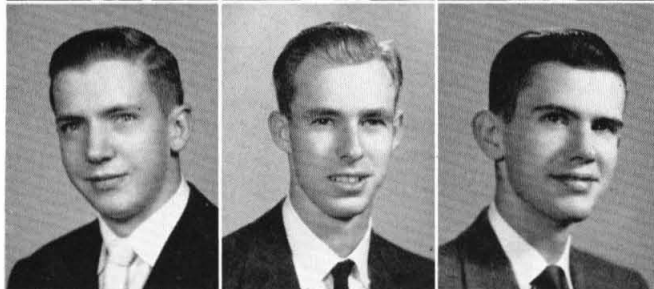


Howard Berg  
Tom Bergeman  
Myron Black

*tau*



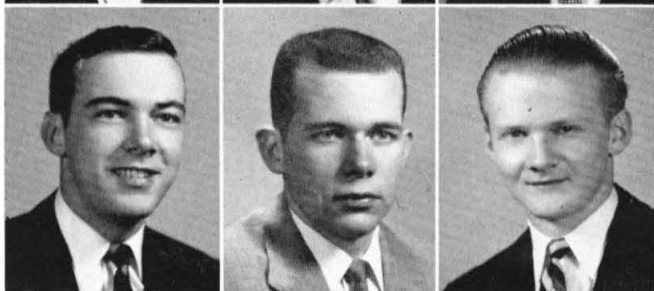
Chuck Bodeen  
Baird Brandow  
Aldo Di Loreto



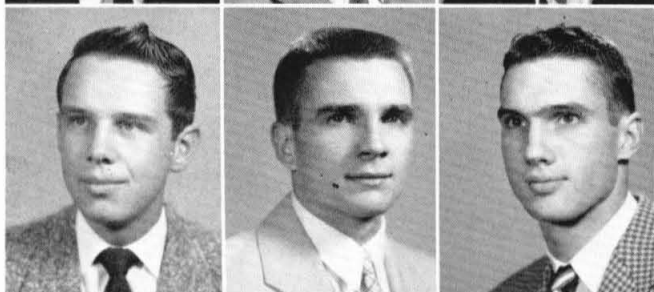
Perk Eiselen  
Louis Fletcher  
Lyman Fretwell



Mark Goldenberg  
Gerhard Hahne  
Ed Hershberger



Dick Hundley  
Dick Johnson  
Arne Kalm

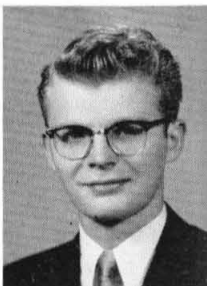


Paul McHorney  
Bob Moore  
John Myers



Ed Nelson  
Ray Orbach  
Rex Peters

Walt Petersen



# *beta pi*



OFFICERS  
LEFT TO RIGHT: Ray Orbach, Ray Weymann,  
Chuck Bodeen, Paul McHorney, Perk Eiselen,  
Dick Johnson.

Herb Rauch

Hunt Small

Walt Specht

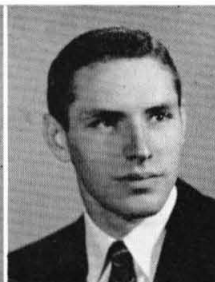
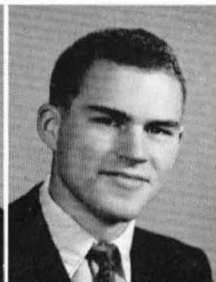
Marty Tangora

John Thomas

Ray Weymann

Jim Workman

John Young







Walt Petersen and Bob Chambers  
Business Managers

Arne Kalm  
Seniors Editor

Chuck Bodeen  
Art Editor

Jim Mebust  
Sports Editor



Don Nierlich  
Editor

Dick Kirk  
Assistant Editor

Ray Orbach  
Activities Editor

Stu Bowen, Dennis Paull and Charlie Anderson  
Photo Staff

Jon Robinson  
Photography Editor

***the 1956 big T***

*california*  
*tech*



Dick Hundley  
Editor

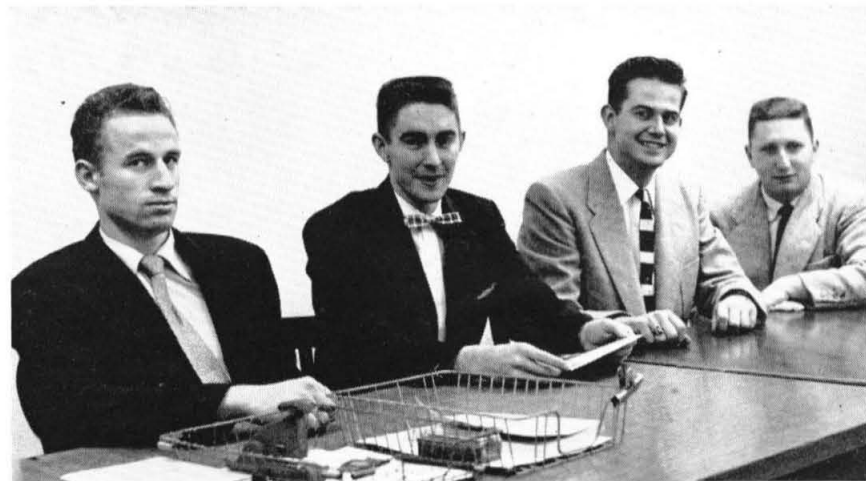
Marty Tangora  
Editor







SEATED, left to right: Bill Davis, Mike Tulcott, Benny Bass, Dave Leeson, Dick Van Kirk. STANDING: Frank Kofsky, Tom Dodge, John Lango, Dave Groce, Stu Bowen, Brent Banta, Al Farley, James Coe, Dick Kirk, Bill Hecht, John Lansingh, Herb Rauch, Don Lewis.



LEFT TO RIGHT: Bill Davis, Sports Editor; Al Farley, Assistant News Editor; Dick Kirk, News Editor; Frank Kofsky, Feature Editor



LEFT TO RIGHT: Gene Epstein, Tony Iorillo, Stu Bowen, Dave Gilson, John Baker, John Lango, Harvey Frey, Ken Scholtz, Joel Greenberg.

## *farrago*



Editors Russ Hunter, Lyman Fretwell and Marty Tangora.

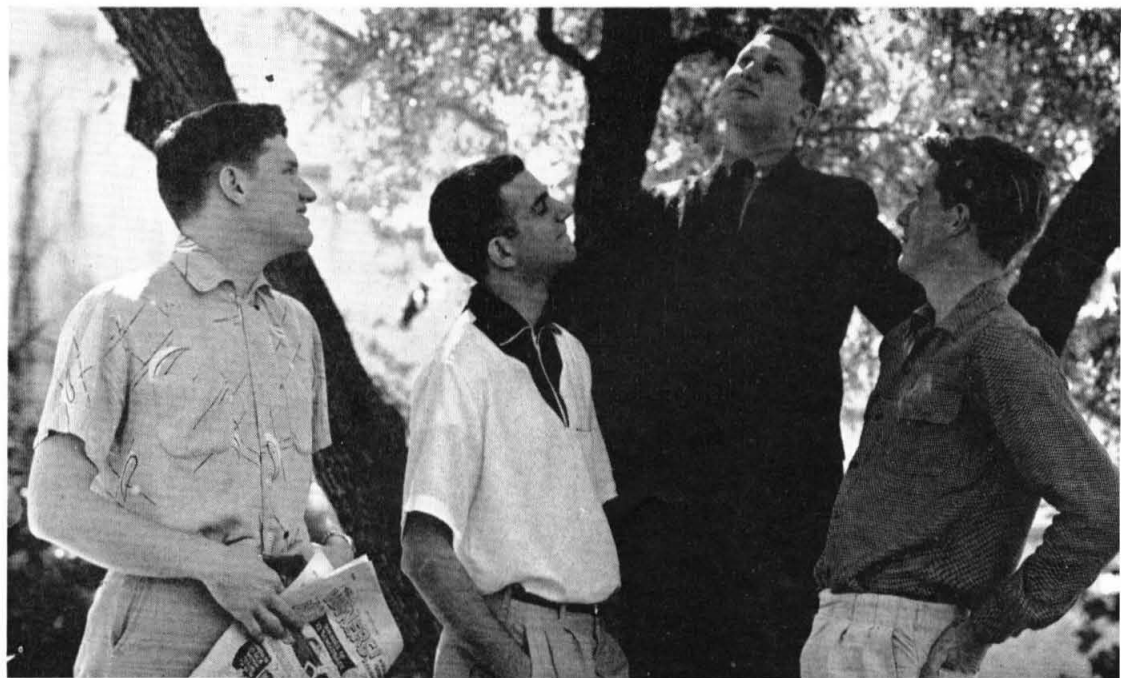


SONG LEADERS: Suzy Rae and Joyce Roberts: not pictured: Judy Bottelson, Dotty Hilton. YELL LEADERS: Bent Banta, Don Lewis, Dick Johnson, Clarke Rees, Jim Cribbs.

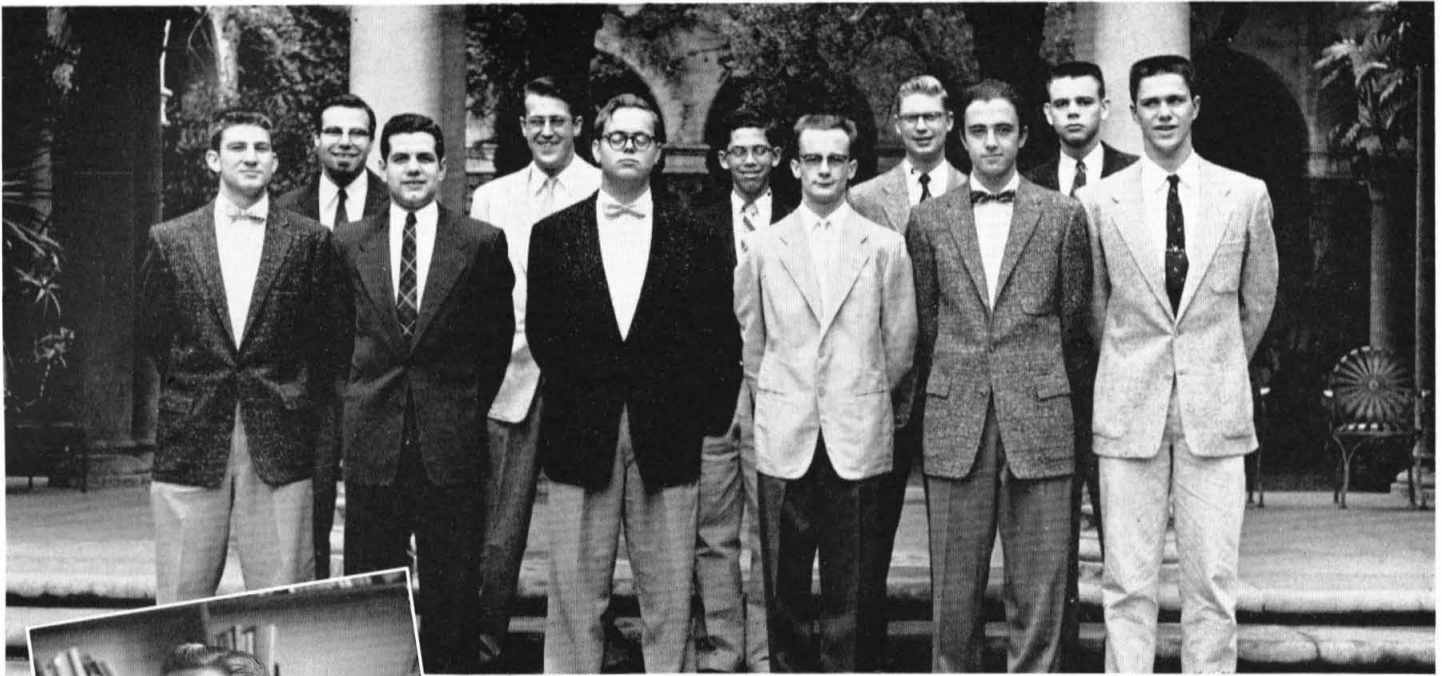
*cheerleaders*

*rally committee*

LEFT TO RIGHT: Dance Stark, Alfie Zornberg, Godsky Kofsky, Tournament Park.







John Velman, Mike Bleicher, Ray Orbach, Andy Perga, Tom Morton, Ken Scholtz, Tom Gunkle, Myron Black, John Lango, Reed Warriner, Herb Rauch.



Dwight Thomas  
Coach

## *debate*

The forensics program at Tech is one which takes men all over the country to participate in intercollegiate contests. At these contests they enter team and individual events: debate, impromptu, extempore, interpretation, and oratory.

Under the leadership of Dr. Dwight Thomas, new to Caltech this year, we have seen outstanding success. Many certificates of excellence were awarded individuals in the numerous tournaments entered: San Diego, Los Angeles City College, Pacific Lutheran, Valley, Occidental, UCLA, Pepperdine, Pasadena City College, Claremont, Stockton (Pi Kappa Delta Regional), USC, and Pentathlon. Ray Orbach and Ken Scholtz received superior ratings in the San Diego Practice Tournament, the highest possible award.

At the Western Speech Association Tournament at Pacific Lutheran College, Parkland, Washington, the team of Andy Perga and Tom Gunkel took second in Lower Men's Debate out of forty-four teams entered. Mike Bleicher and Myron Black took fourth in Upper Men's Debate out of fifty-five competing teams in the same tournament.

Next year, with the present crop of freshmen in training, we hope to do even better.

As well as winning contests, Forensics at Tech has another outstanding quality: the opportunity that is offered the person without experience. Here, unlike other schools, a man without experience can begin by going to tournaments and participating directly without long initial training. This is important, because it encourages potential talent that might be lost in a school satiated with "pros."

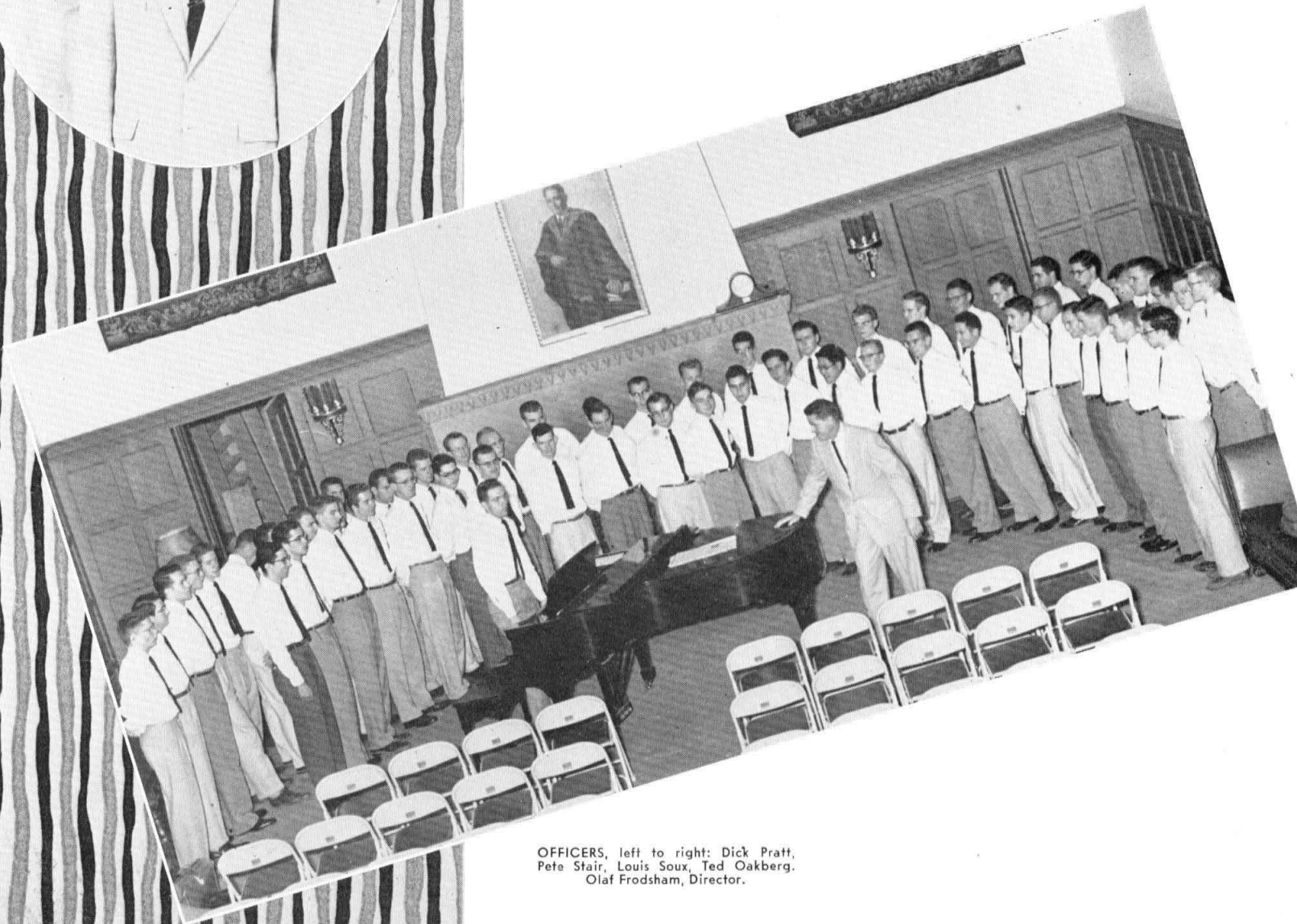
If you are interested in participating, Dr. Thomas will always be glad to see you. When you have the opportunity, come to 308 Dabney and don't knock.

## *glee club*

The Caltech Glee Club has become well known as one of the most active organizations on the Caltech campus. This year the club has sung for social groups, colleges, and churches throughout the Los Angeles area, as well as presenting programs on the radio and to the Caltech student body. In the annual Southern California Intercollegiate Glee Club Festival, the Caltech Glee Club has taken its place as one of the top choral organizations represented.

The present Glee Club was formed in the class of '56 freshman year and since then has developed from a twelve-man group into a fifty-five member organization with members selected at hotly contested tryouts at the first of the year. High points in the subsequent history of the club have been the acquisition of a professional director, Mr. Olaf Frodsham, in 1953; the institution of the Interhouse Sing in the following year; and last year the first Intercollegiate Festival appearance of a Caltech Glee Club in well over a decade.

The Caltech Glee Club has definitely become a choral organization to be reckoned with in Southern California and promises to be an increasing source of satisfaction in the coming year to its members, to the entire student body, and to the community as a whole.



OFFICERS, left to right: Dick Pratt, Pete Stair, Louis Soux, Ted Oakberg, Olaf Frodsham, Director.





*band*

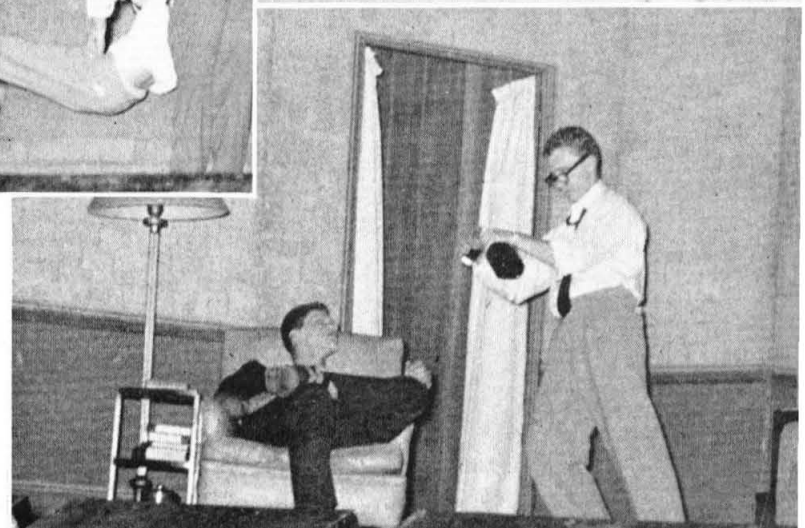
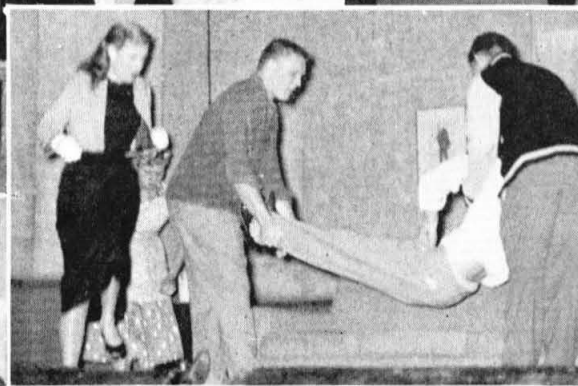
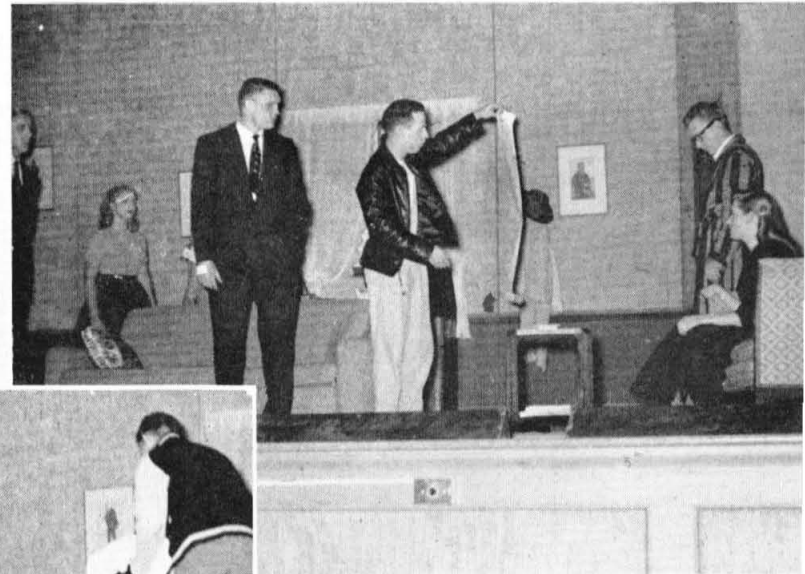
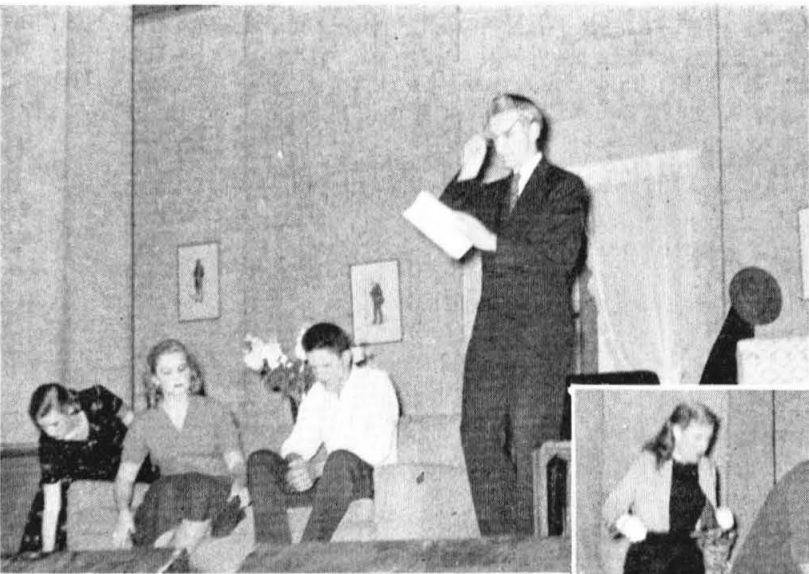


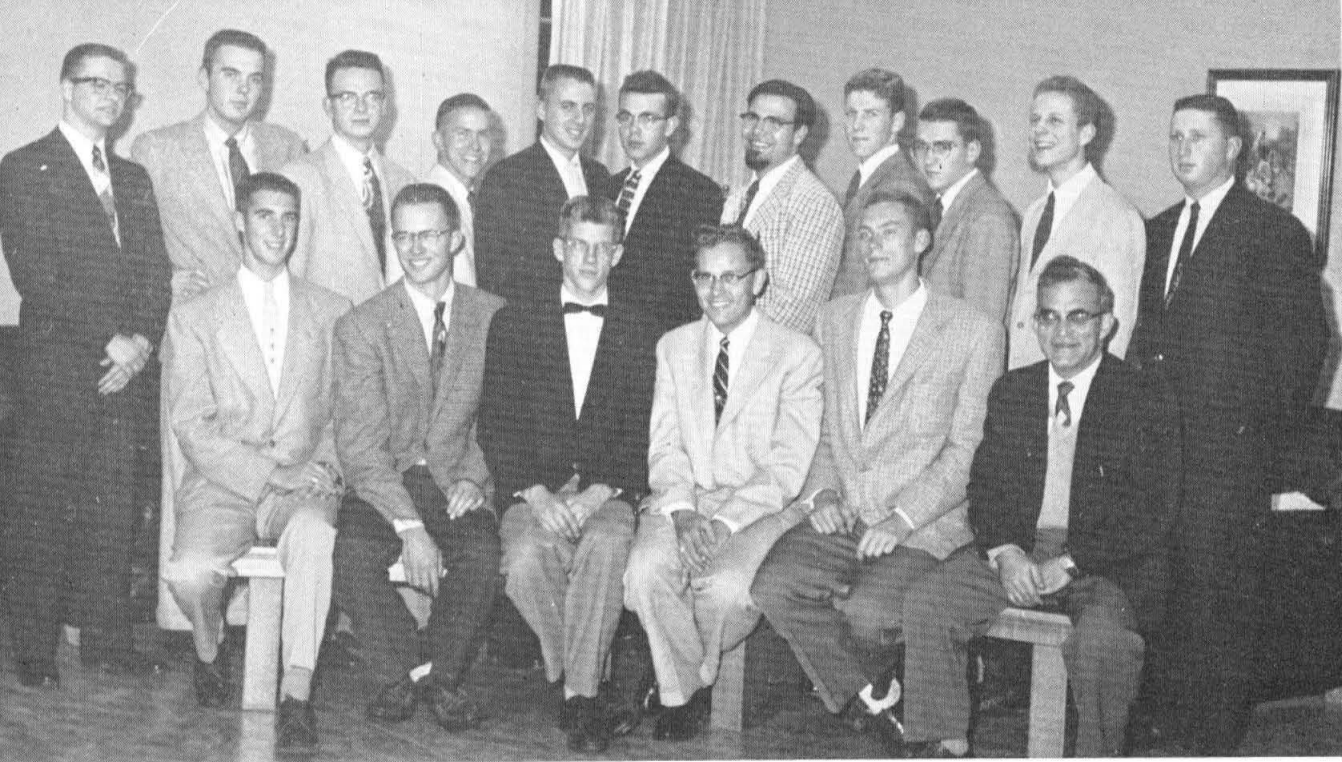
Cleota .....	Flicca Bach
Ellen Turner.....	Barbara Frailey
Thomas Turner.....	Mike Boughton
Patricia Stanley.....	Diane Lisko
Wally Myers.....	Stan Parkill
Michael Barnes.....	Herb Rauch
Frederick Damon.....	Roy Paul
Joe Ferguson.....	Larry Whitlow
Blanch Damon.....	Barbara Stotler
Ed Keller.....	Don East
James Thurber.....	Elliott Nugent

## *the male animal*

With Mike Boughton as the college professor with principles (who incidentally ends up playing a drunken sea lion with "boy editor" Herb Rauch), and Larry Whitlow as the returning All-American who needed no principles, we present the dilemma of a professor caught between the alumni (personified by Don East) and his conscience. Roy Paul fits the part of the intellectual professor (played in real life by advisor Dr. Kent Clark) to give you a play with laughs that even Thurber didn't think of.

Myrtle Keller.....	Lynn Averill
Nutsy Miller.....	Jerry Royce
Reporter .....	Bob Mitchell
Director .....	Dan Bailey
Stage Manager.....	Wayne Nelson
Prompter .....	Bill Haigler
Properties .....	John Price
Publicity.....	Barrett Miller
Ticket Sales.....	Sam Phillips





**CABINET**

SEATED, left to right: Baird Brandow, Don Pinkerton, Fritz Benning, Chuck Bodeen, Pete Lauritzen, Wes Hershey. STANDING: Don Meyer, Gordon Reiter, John Carney, Jim Short, Ron Reiterman, John Young, Mike Bleicher, Jim Weaver, Tom Bergeman, Joe Fineman, Frank Kofsky.



**y m c a**

The aims and purposes of this organization have been discussed many times by its members during the past year. Through these discussions, the twofold nature of the Caltech YMCA has become clear—its service to the Caltech community, and the fellowship that it provides for its members. To accomplish these things, many activities have been carried on by members of the "Y."

One of the most important of these activities is the newly formed "Leaders of America" program. Under the leadership of John Young and Dick Kirk, the visits of Mr. Paul Hoffman, Justice William O. Douglas, and Dr. Ralph Bunche were very successful, giving Caltech students the opportunity to meet and talk with some of the most prominent men in our society.

The lunch clubs continued their program of bringing speakers from many different fields to speak on campus. A successful film series program presented several very good films for student enjoyment. Other events, such as the debate on pacifism by Mr. A. J. Muste and Mr. Wilson Riles, were also held.

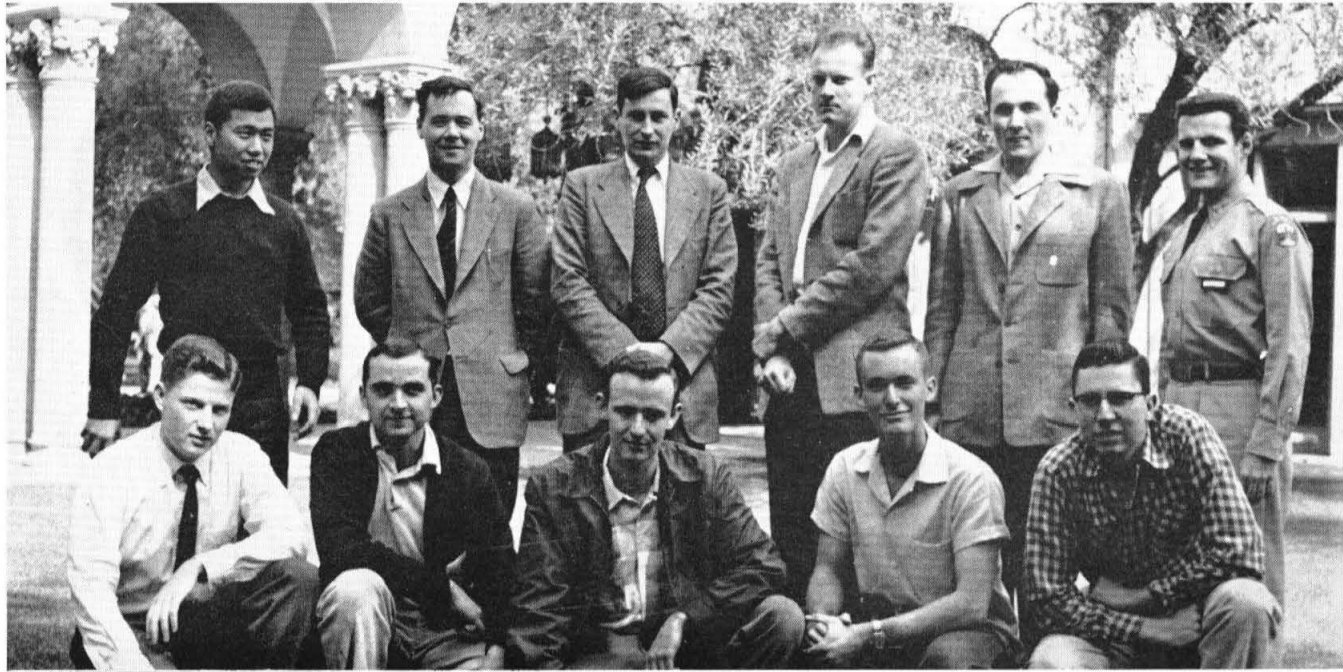
About one third of the members of the YMCA went to Asilomar, the largest delegation in the history of the "Y." Other activities for YMCA members included a visit to the new Mormon Temple with Oxy, meetings with the "Y" groups from other colleges, and several interesting bull sessions with the Leaders of America and our own faculty members.

Don Meyers

Chuck Bodeen  
President

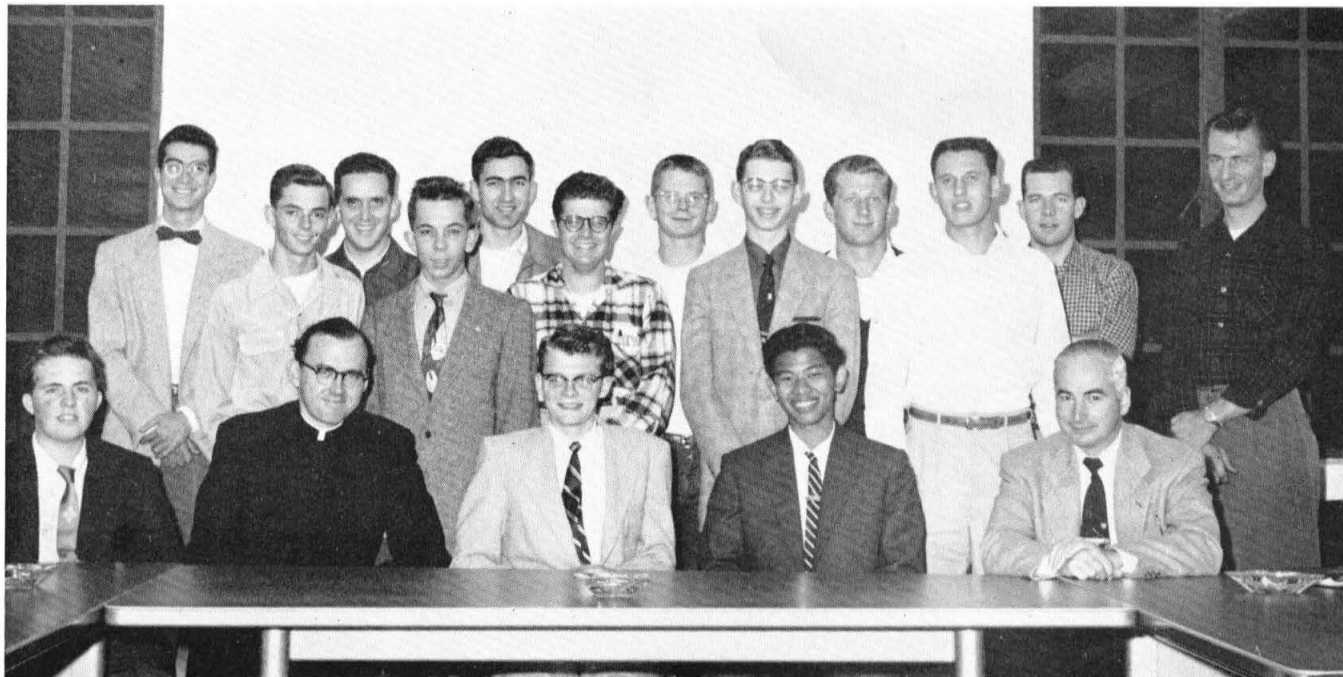
Wes Hershey  
Executive

Donna Newcomb  
Secretary



FIRST ROW, left to right: Tom Lovejoy, Jay Kimmel, Paul King, Richard Hutson, Gordon Brown. SECOND ROW: Berken Chang, John Polkinhorne, Roger Thorne, Walt Thorson, Darwin Smith, Kirk Irwin.

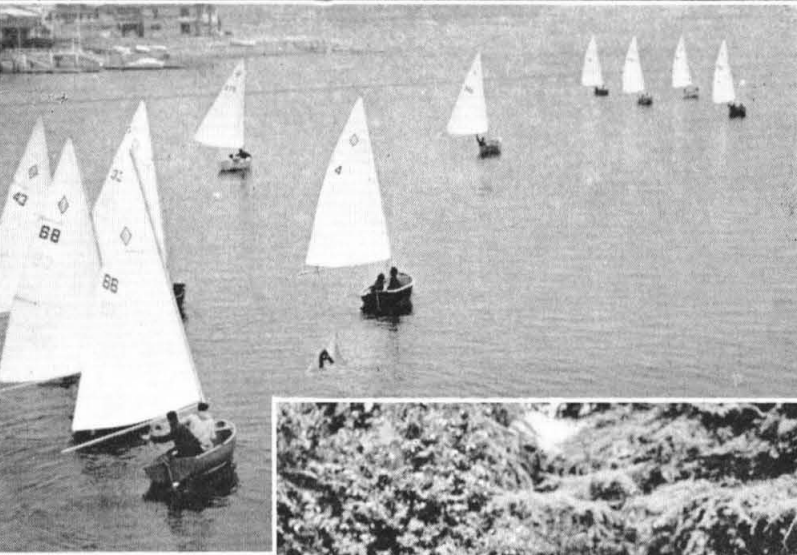
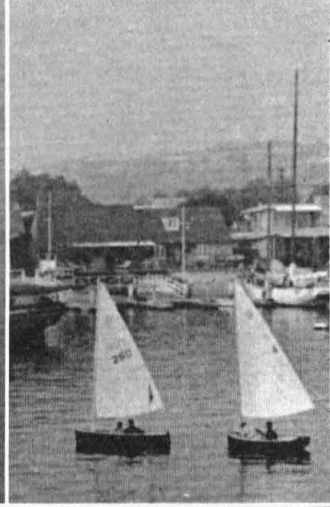
## *christian fellowship*



FIRST ROW, left to right: Dan Killoran, Father Peter Healy, Walt Petersen (Pres.), Larry Tenn, Tom Taylor. SECOND ROW: Tom Gibson, Bernie Kraus, Frank Mastroly, Jim Petty, Dick Baron. THIRD ROW: Bernie Lopez, Franco Scardiglia, Frank Sullivan, Dick Herlein, Bob Huebotter, Dick Johnson, James Mikulski.

## *newman club*





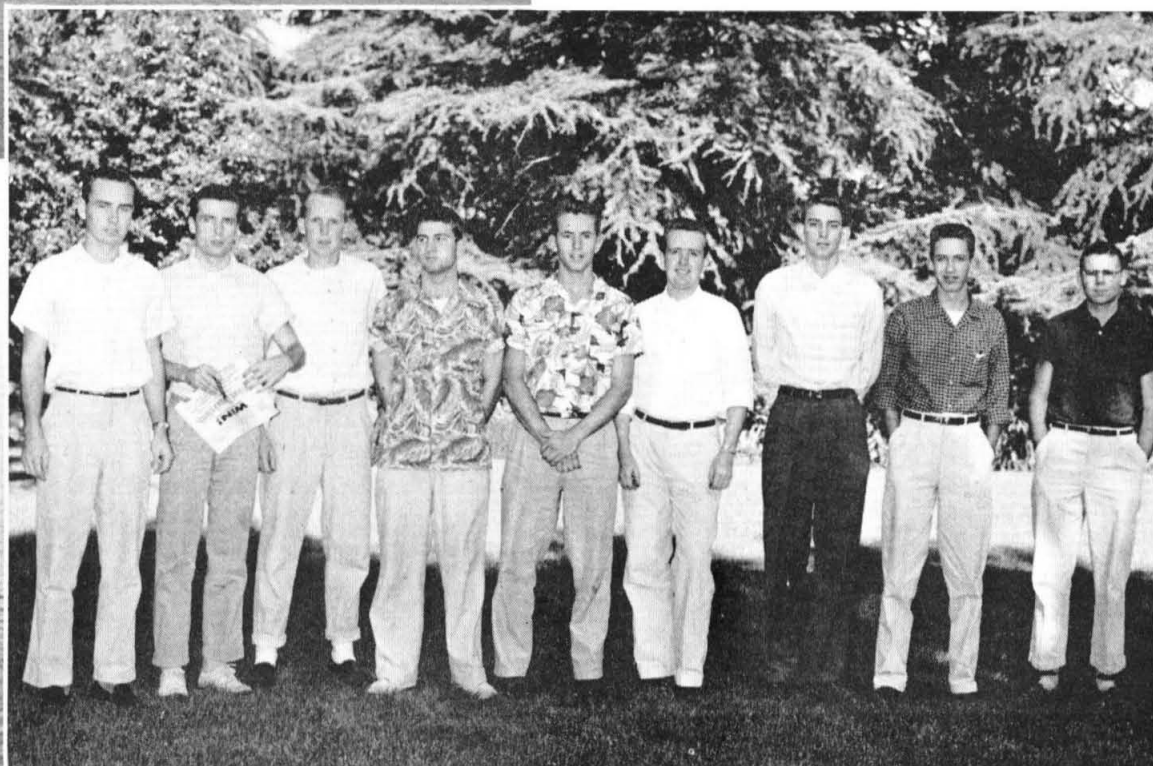
This year the Caltech Sailing Club has seen an active year-round season both at its home port, the Los Angeles Yacht Club at Terminal Island, and at Newport Harbor. The sailors, with the club's six Glaseat dinghies, have met all the active collegiate teams on the Pacific Coast. Some of the members spent their evenings last summer putting the club's 17-foot Falcon sloop into tip-top condition by completely fiberglassing and refitting her. She is now better than new and sailing with the rest of the club's fleet.

The highlight of the year was the annual Caltech Spring Invitational Regatta, sponsored by the Los Angeles Yacht Club, which was held in February. This regatta as well as the club's other racing activities was planned by Jan Arps, the racing team captain. The Commodore of the club, Chuck Helsley, with the other officers, Dick Lewis, Dave Allen and Eric Johnson, led the club in its other activities through a successful year.

Ron Wann

## *sailing club*

LEFT TO RIGHT: Ron Wann, Eric Johnson, Gordon Fullerton, John Velman, Chuck Helsley, Bob Herzog, Jan Arps, Dave Gardner, Dick Lewis.



The Caltech Ski Club suffered greatly this year due to the scarcity of snow in the mountains in the Southern California area. It looked as though the season was going to be good when heavy snows arrived before Thanksgiving, but that was the last of the snow until the end of January.

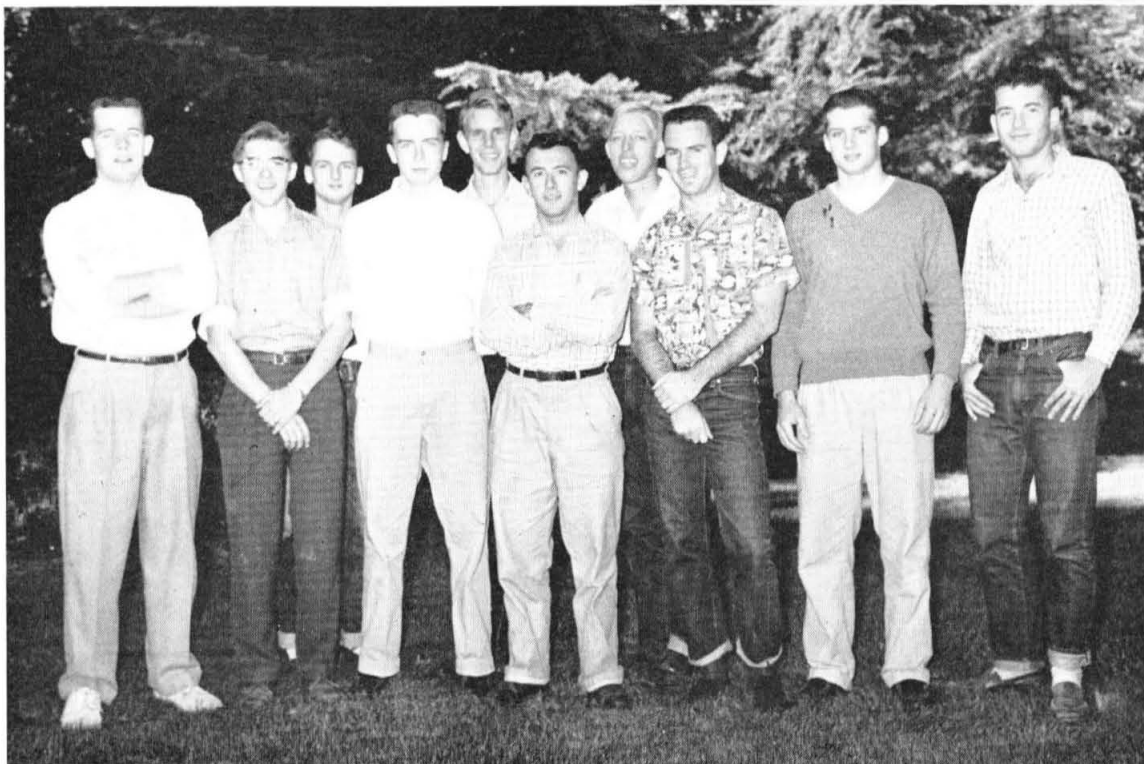
Some of the members of the club, however, did have an opportunity to get in some good skiing in more distant areas. Several parties went to Mammoth Mountain over Thanksgiving, at which time a new chairlift was put into service. Some went skiing in Northern California over Christmas vacation, while others made the longer trip to Alta, Utah. Spring vacation saw several members making a cross-country trip from Mammoth to Yosemite, while others were trying the slopes of Squaw Valley, Sugar Bowl, and Reno Ski Bowl.

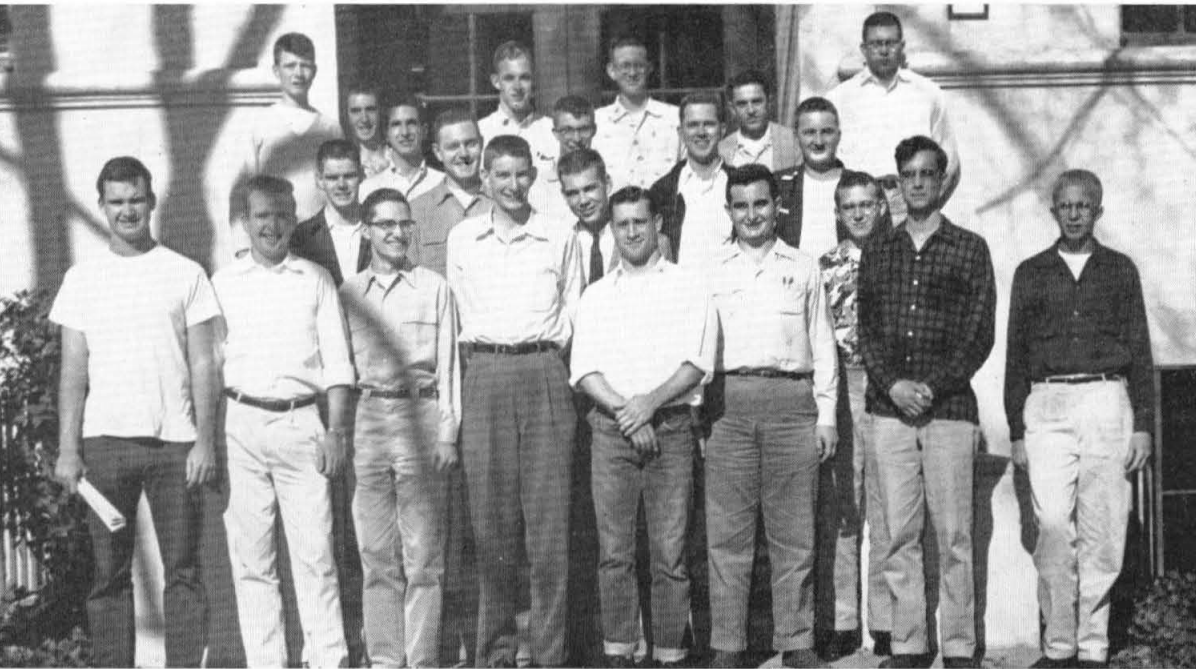
The cabin which the club maintains at Snow Valley was in constant use during the middle of the winter months which put the club in a healthy condition. With hopes that the weatherman will be a little kinder next year, we are looking forward to a good season.

Bruce Blackie

## *skiing club*

LEFT TO RIGHT: Dick Johnson, Dave Akley, Mike Godfrey, Howard Marshall, Tom Slanger, Hugo Fischer, Ralph Kehle, Bruce Blackie, Ike Haissman.





FIRST ROW, left to right: Hunt Holladay, Bob Herzog, Bruce Nevelli, Jan Arps, John Lukesh, Arnold Goldford, Pete Moretti, Roy Stake. SECOND ROW: Martin Conneally, Larry Berry, Bob Kausen, Dick MacAnally. THIRD ROW: Keith Brown, Dick Fiddler, Dave Spencer, Jim Myers. FOURTH ROW: Kirk Polson, Baird Brandow, Sam Phillips, Robert Pailthorpe, Doug Christman, Jim Snyder.

## *society of automotive engineers*

## *american society of civil engineers*

FIRST ROW, left to right: Gary Dietrick, Arne Kalm (Pres.), Ed Hershberger, Jim Cowan. SECOND ROW: Hugo Fischer, Tom Cooper, Dick Johnson, Paul King, Steve Nathanson, Tom Lovejoy, Ike Haissman, Jacob Lubliner, Dr. Alfred Ingersoll. THIRD ROW: Reed Warriner, Frank Schroeter, Paul McHorney, Jerry Eagleston, Arlen Bell.







FIRST ROW, left to right: Larry Marantz, Hal Morris, Chuck Goebel, Jim Girard, Jim Short, Harold Almond, Mauritz Kallerud, John Carney. SECOND ROW: Jerry Klaz, Al Goldberg, Bob Deffeyes, Eric Johnson, Tetsuo Yamane, Dave Tansey, Dick Homeyer.

***american chemical society***

***american institute of electrical engineers  
 . . . institute of radio engineers***

LEFT TO RIGHT: Dick Alvarez, Chuck Wilts, Jerry Yurek, Walter Spect, Pete Lauritzen, Lee Schmidt, Jerry Pixton, Pete Smith, Hardy Martel, Bob Marshall.





FIRST ROW, left to right: Stu Bowen, Gary Breitbard, Howard Marshall, Lyman Fretwell, Joe Fineman, Kim Malville.  
 SECOND ROW: George Oetzel, Doug Carmichael, Tom Gibson, Ed Royce, Dr. Tom Lauritsen, Dr. Murray Gell-Mann.  
 THIRD ROW: Gerhard Hahne, Don Roberts, Fritz Trapnell, Dr. Alvin Tollestrup, Ken Laws, Dave Allen, Dick Hundley.

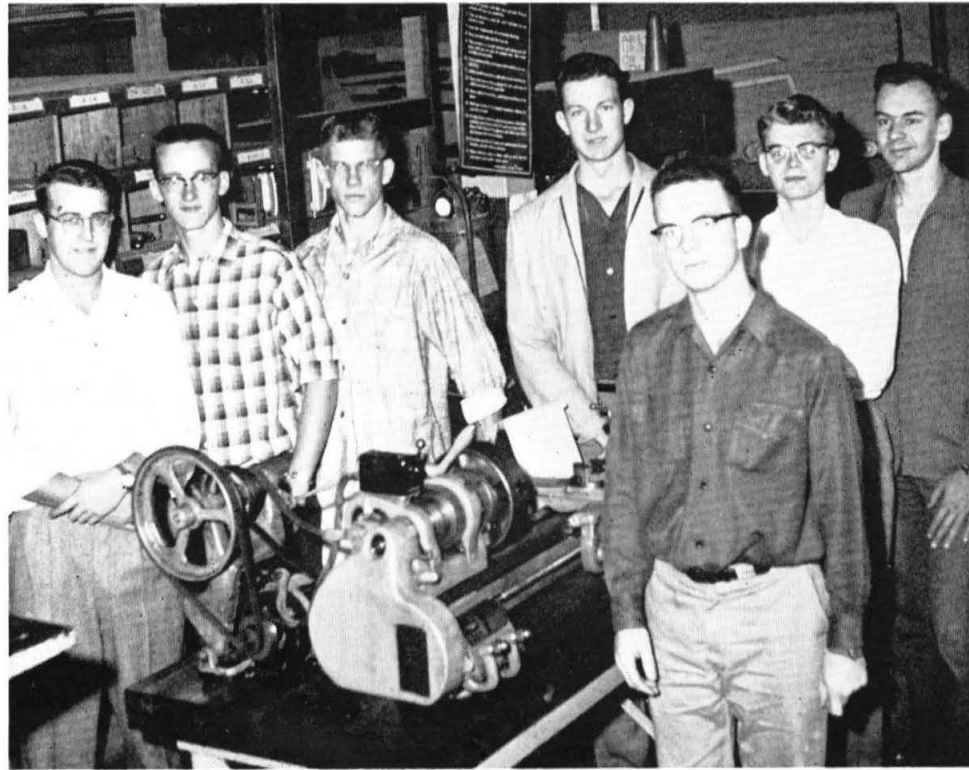
## *physics club*



## *darkroom club*

LEFT TO RIGHT: Dennis Paull, Stu Bowen, Don Nierlich, Larry Berry, Jon Robinson, Mike Konrad, Dave Groce, Gordon Glattenberg.

## *student shop*



LEFT TO RIGHT: Andy Perga, Al Forsythe, Fritz Benning, Joe Gibbs, John Carney, Walt Petersen, Chuck Mosher.

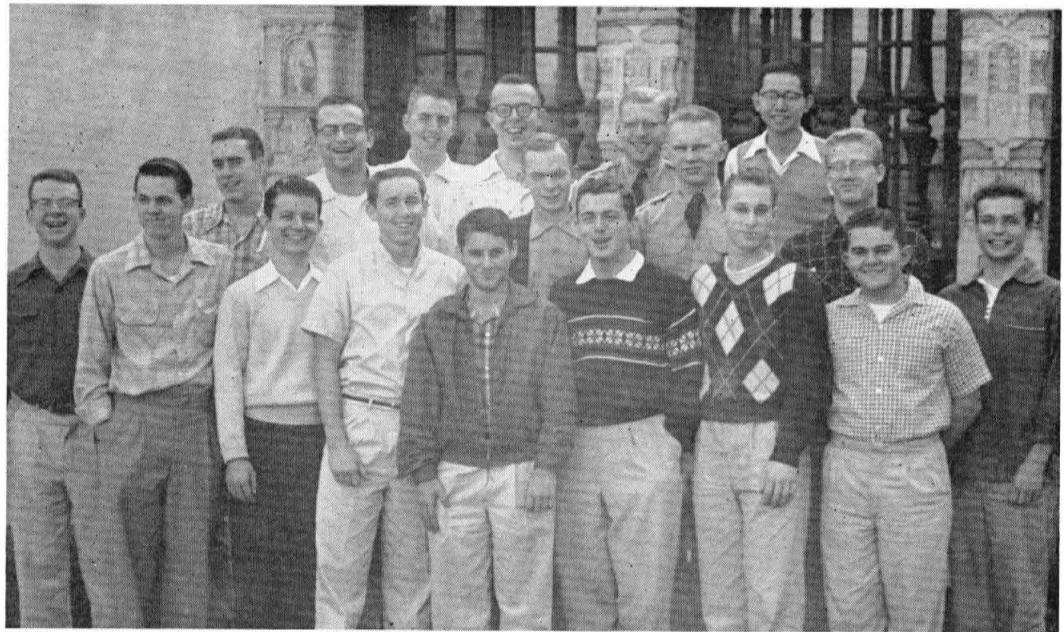
## *american society of mechanical engineers*

LEFT TO RIGHT: Stan Baker, Dwight Dennis, Hunt Small, Jerry Crocker, Bob Jetter, Doug Peters, Jim Koontz, Leon Keer, Perk Eiselen, Phil Conley, Dick Smisek, Bill Dietrich, Kirk Irwin, Joe Gibbs, Jim Higgins, Doug Ritchie, Larry Rhodes, Bob Chapkiss, Jerry Swedlow.



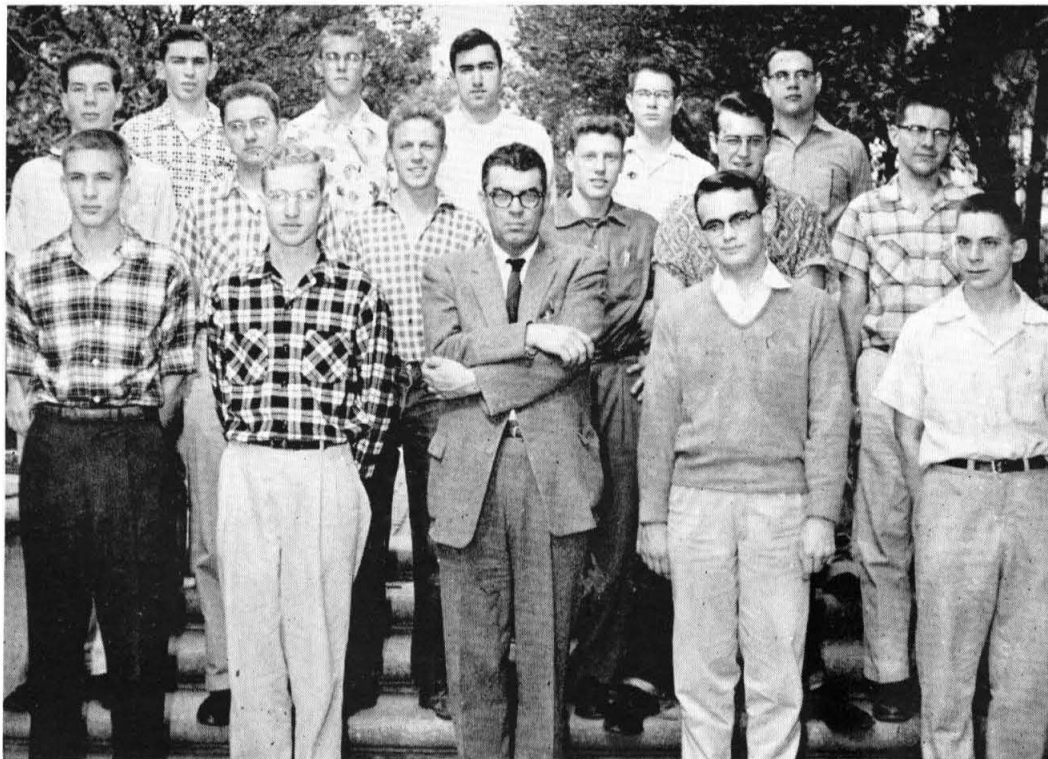


FIRST ROW, left to right: John Carney, Hal Morris, Jim Rode, Phil Reynolds, Larry Marantz, Bob Deffeyes, Al Goldberg, Jim Espenson, Eric Johnson. SECOND ROW: Mauritz Kallerud, Jerry Klaz, Don Reiterman, Chuck Goebel, Harold Almond, Jon Valbert, Dick Homeyer, Tetsuo Yamane, Jim Gerard.



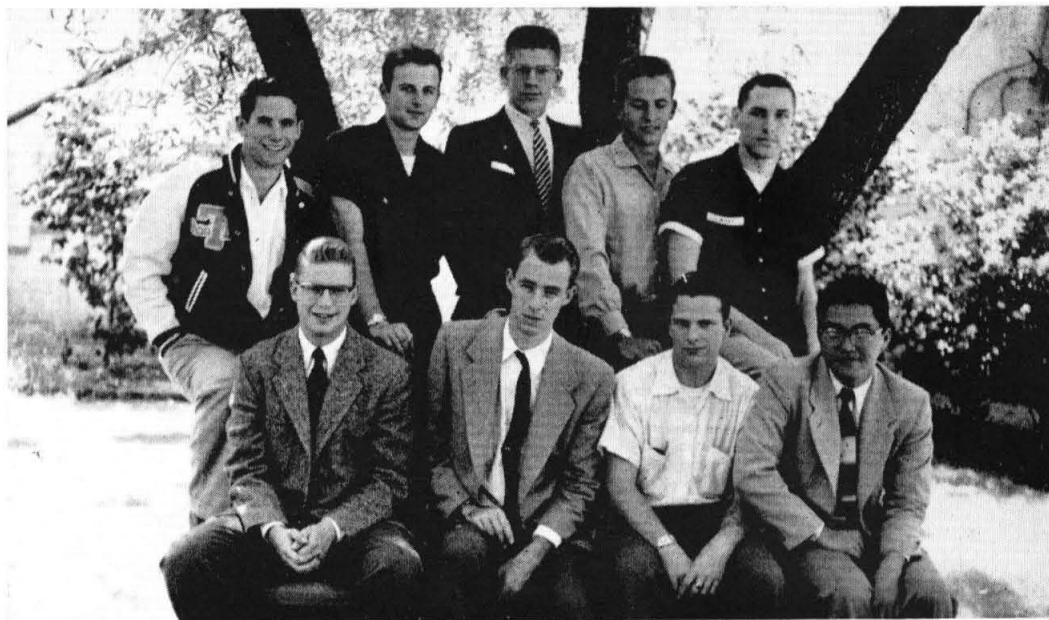
## *chemical engineering club*

## *radio club*



FIRST ROW, left to right: Mike Konrad, Bob Marshall, Dr. Robert Langmuir, Doug Junge, Jim Potter. SECOND ROW: Mike O'Malley, George Oetzel, Joe Fineman, Lanny Lewyn, Andy Perga, Rudy Schindler. THIRD ROW: Bob Tokheim, Bill Graham, Bob Chandos, Gordon Hughes, DeWitt Landis.

FIRST ROW, left to right: Myron Black, Louis Fletcher, Jim Higgins, Warren Furumoto. SECOND ROW: Jim Lloyd, Bill Purves, Fritz Benning, Chuck Helsley, Marty Tangora.



## *interhouse committee*

In many ways the Interhouse Committee had a lean year last year. There were no fist fights, little profanity, and hardly any shouting at all. No bones were broken, nobody threw very much food at anybody else, and nobody's feelings were hurt very much very often.

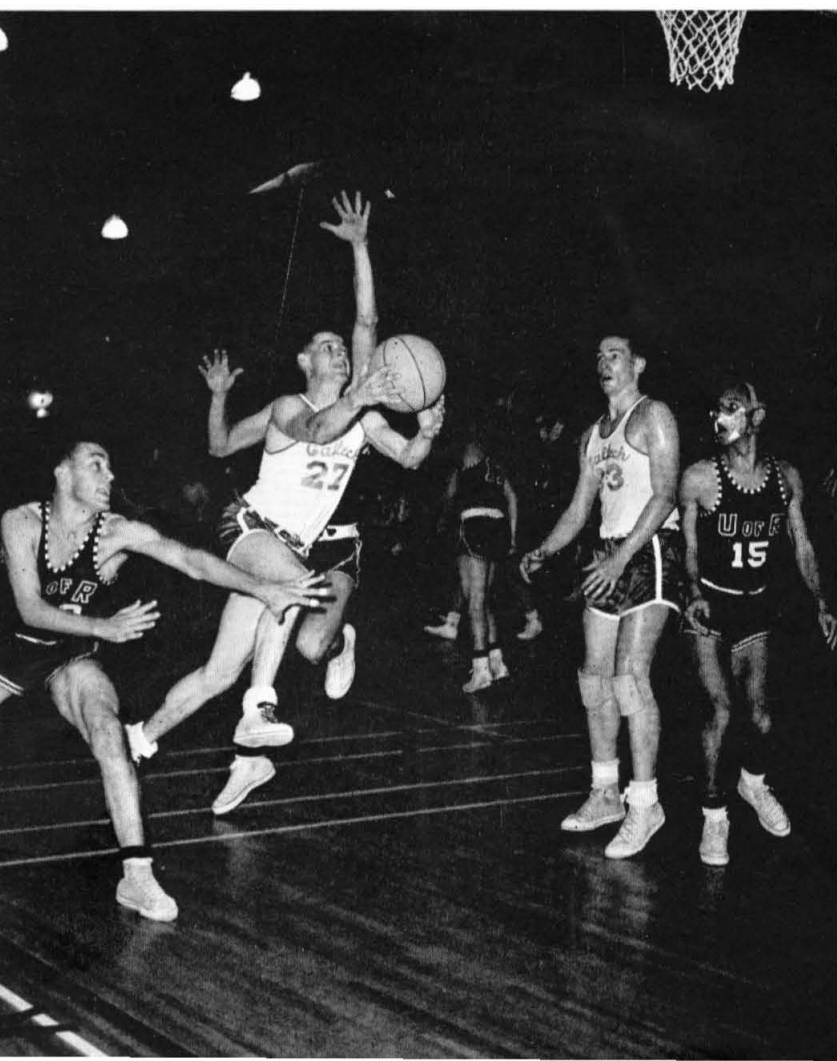
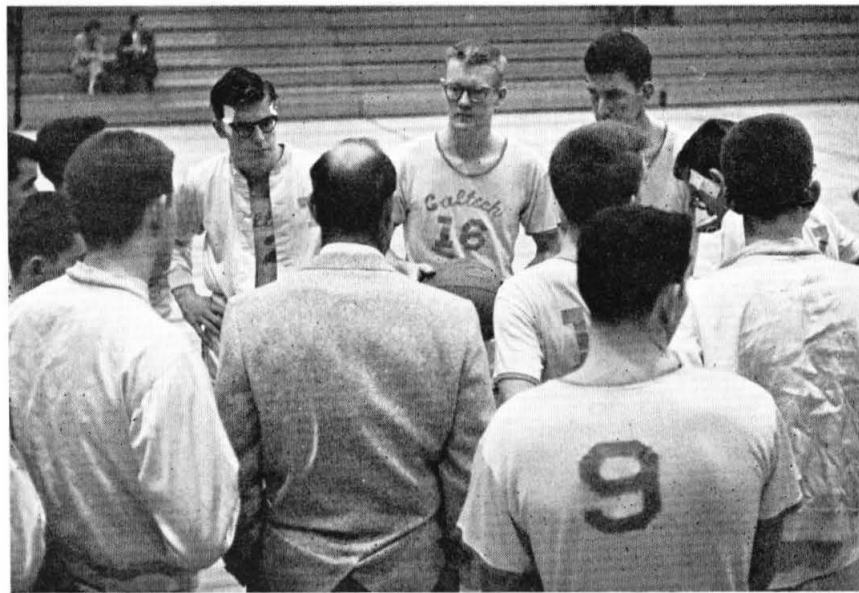
The blame for this decline goes to Ted Johnson, who presided over the IHC during the spring term of 1955, and Louis Fletcher, who succeeded Johnson to the throne and carried the process of decay to its conclusion. Marty Tangora, who took minutes at almost all the meetings except the ones he slept through, also had a hand in the degeneration.

Unfortunately, the IHC not only regressed to the point where it was acting rationally and intelligently, but even receded to such a stage that it was a real contributor to the welfare of the student body. No explanation can be offered for this; certainly it broke long-established precedent and tradition.

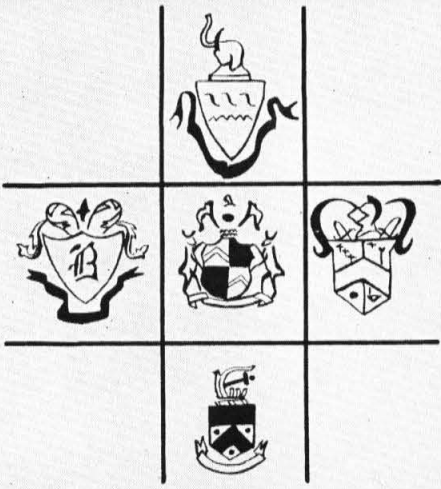
Proof of the retrogradation is easily found (but understood only with great difficulty) in the minutes. The rules governing Dicobolus were revised and brought up to date. Rotation and initiation were handled with a minimum of fuss, in spite of the awful burden caused by the overcrowding situation and the large number of nonresident members. The committee even took a constructive step toward the building of adequate housing facilities on campus, in the form of a projected report on overcrowding in the present houses, a document which (when completed) may be a genuinely important move for the general welfare.

What a disgrace to the fine old tradition of the IHC!

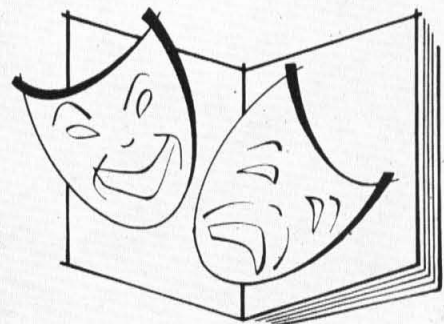
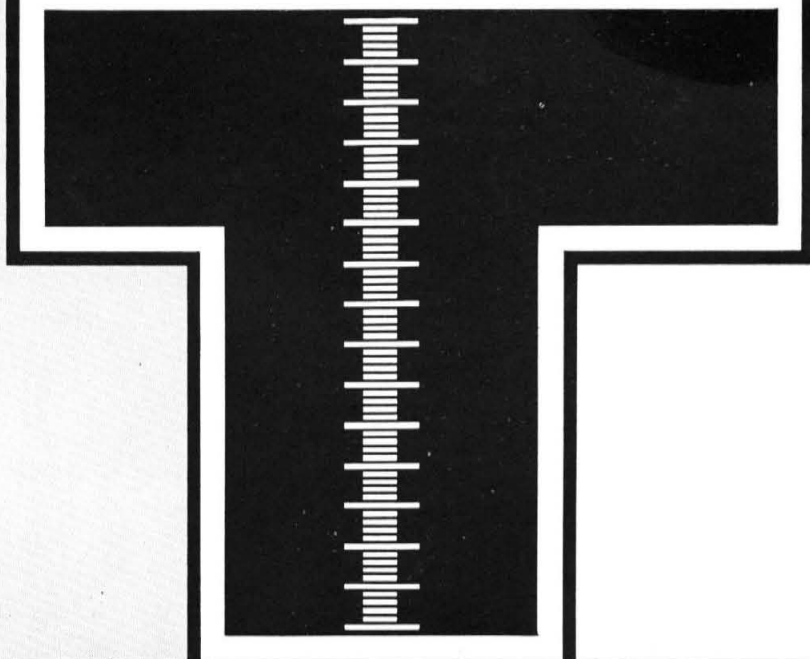
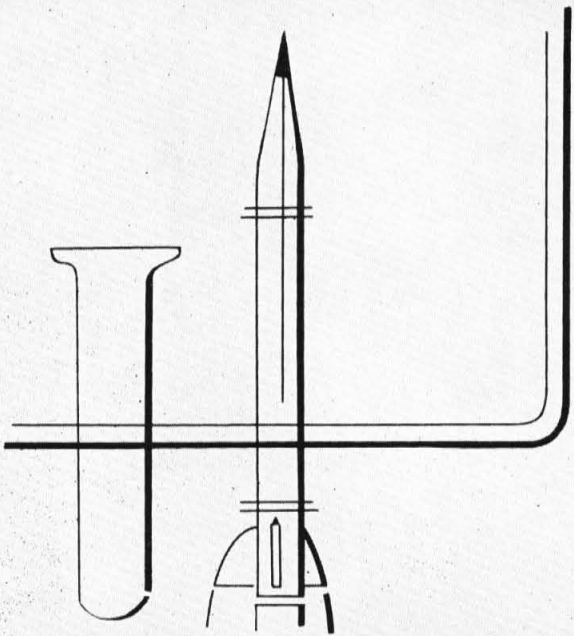
Marty Tangora

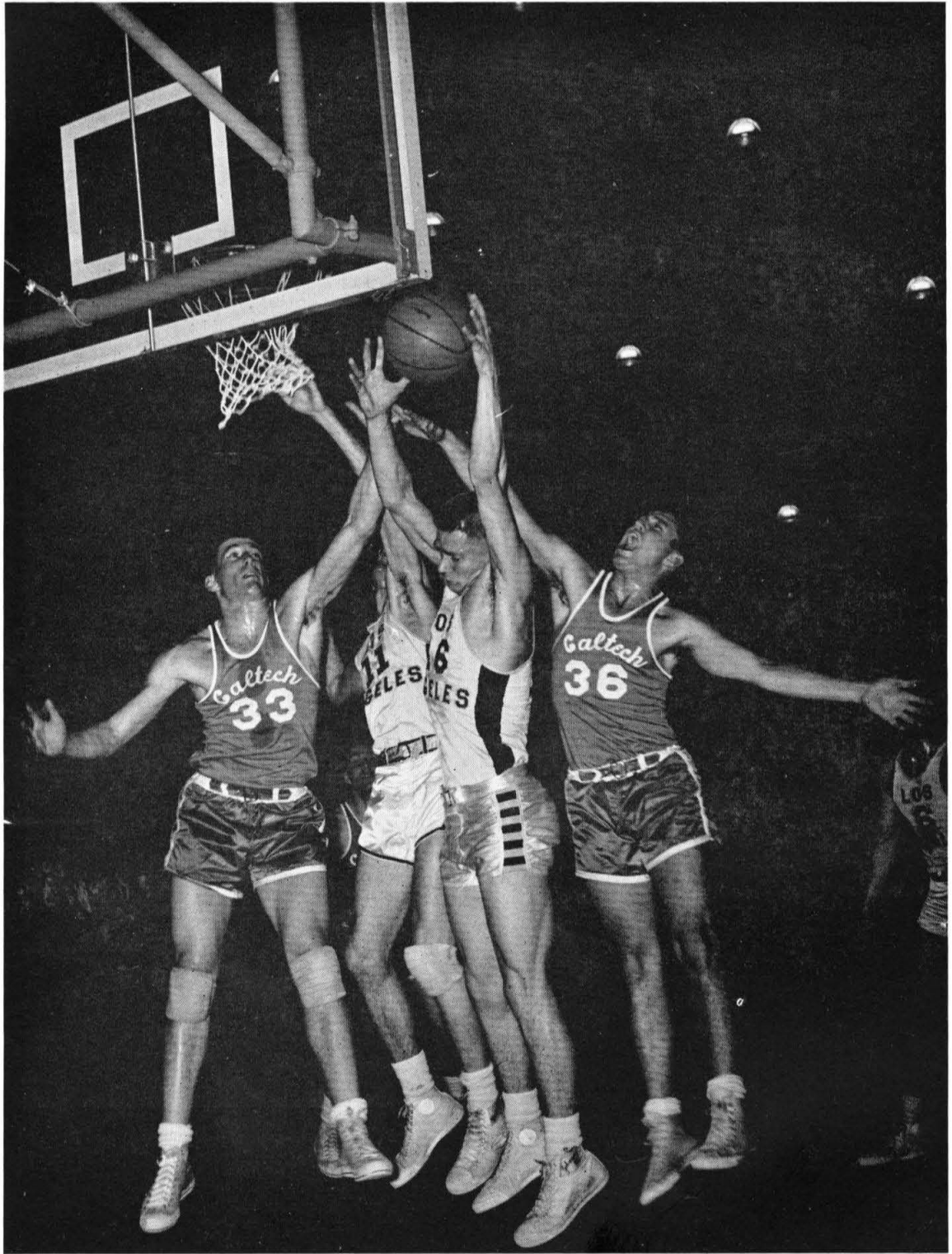






*sports*





# *the sports year at tech...*

The year was off to a quick start when the Tech footballers nearly upset highly favored Redlands as Don Stocking returned a punt through the whole Bulldog team with a brilliant change of pace. And the very next week, with Ed Krehbiel smashing the line and Phil Conley doing his best quarterbacking, the long losing streak was broken as the Beavers smashed to a three-touchdown victory.

A blazing bonfire in the California-Hill intersection lighted the victory celebration. Jubilant Techmen sang, cheered, danced and lighted palm trees.

Rah, rah, rah,  
Ri, ri, ri,  
Throop Polytechnic  
T. P. I.

Even the men in blue arrived to assist in the celebration. Few, if any, in southeast Pasadena caught much sleep that night.

Meanwhile, the soccer team, led by Coach Bob Huttenback, made the pre-season dopesters eat their words. The booters beat the highly rated Pomona Sagehens twice and climaxed a successful season with a 5-1 upset over Cal Poly (San Luis Obispo), rated the best team in the West. Sedat Serdengecti, Rafn Stefannson, Larry Tenn, and Bob Norton were outstanding on a very strong team.

The water polo team, handicapped by the loss of goalie Fritz Trapnell, finished second in the conference. Don Wiberg was creditable in replacing Trapnell, and Jim Ball, Bill Davis, Dick Johnson, Ed Park, Clarke Rees, and Vince Taylor rounded out the powerful, well balanced first team. Inconsistent play and some questionable refereeing at Occidental cost the splashers the championship.

Basketball was the year's disappointment; but despite a winless season, the hoopsters provided their share of thrills. When Pasadena College (Nazarene) invaded Tech on their way to the regional small-school championship, they found themselves at the short end of a 27-9 score in the first half. But sophomore sensation Sonny Nelson reinjured his knee after a diving lay-in, and the Nazarenes caught Tech in the last two minutes. The freshmen played the weirdest game of the year, defeating L.A. Pacific in no less than four overtimes.

Phil Conley was the whole show for the Beavers when Nelson was out, and the versatile senior won all-confer-

ence honors and tied Caltech's scoring record in the final game.

Discobolus was spending all of its time in Blacker, Fleming, and Ricketts, with Blacker winning frequent tennis matches.

Spring sports spelled fair success for Tech. The tennis team enjoyed smashing Occidental, and the swimmers shaped up strong. Coach Webb Emery's squad featured Clarke Rees, sophomore backstroke sensation. The freshman squad looked exceptionally good, and the Beavers could look forward to a continuance of outstanding swimming teams.

The big feature of the season was again Phil Conley. With the Olympics in sight, Conley tossed the spear 237 feet against Occidental and set his sights on 250 feet. But Tech was strong in other departments, too. Ted Lang, for one, snapped the school discus record in the AAU relays.

The broad jumpers, sprinters and quarter-milers won many of the Beaver points.

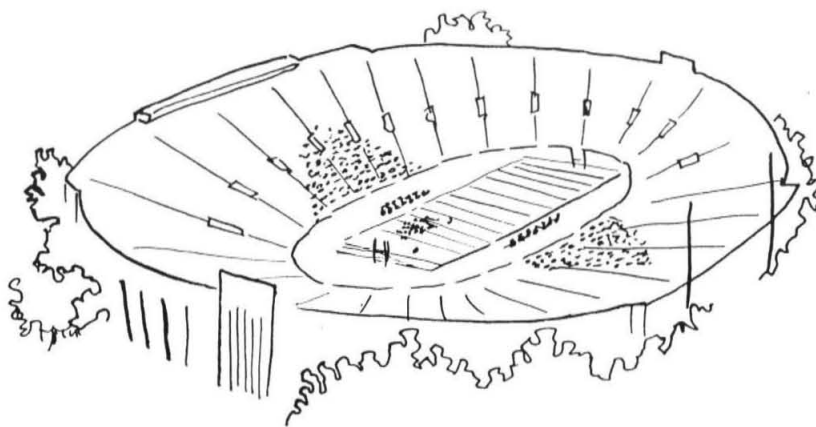
Baseball and golf also added to the spring's activities, with Ray Weymann leading the way on the mound for the horsehiders. Weymann, along with Ed Berry and Chuck Norman, had previously gained all-conference honors.

Touch football, the most popular interhouse sport, highlighted the spring intramural season.

This wide-open sport brought plenty of thrills, and the beach-trained volleyballers brought the year of interhouse competition to its climax.

But we cannot terminate a review of the year's sports life without reviewing the accomplishments of Phil Conley, student body president. In the fall he was selected as the quarterback on the second all-Southern California Conference football team after outstanding performances against Redlands and Cal Poly. As center on the basketball team, he led the conference with an 18.4 scoring average, tied the school scoring record with 33 points against Pomona, and was honored with selection to the all-conference first team.

But Conley's forte is the javelin. After taking fifth place in the NCAA meet as a junior, he broke his own record with a 237' 11 1/4" toss early in the season, the best distance ever recorded in a college dual meet. There is a strong possibility that Conley, in December, 1956, will become the first Caltech athlete to ever participate in the Olympic Games.





# football

Big news of the Caltech 1955 varsity football season was the victory scored by the Beavers over Cal Poly of San Dimas to break a 25-game losing streak, which lasted over three and one-half years of play. Captain Phil Conley scored twice, sophomore fullback Ed Krehbiel tallied once, and Chuck Malone converted once to give the Beavers 19 points in their big win.

Adding to the team's honors for the year, sophomore halfback Don Stocking was chosen as a member of the All-Conference first team, while Phil Conley was elected second string quarterback for a repeat performance of last year.

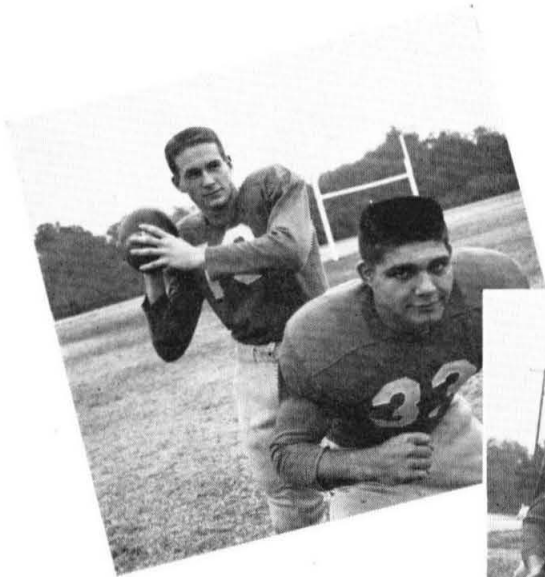
Twelve lettermen returned to Coach Bert LaBrucherie's squad at the start of the season. These men were: Jim Workman, Kyle Bayes, Steve Nathanson, Del McCune, John Myers, Larry Whitlow, Luke Bogdanovic, Bill Moeur, Ed Nelson, Phil Conley, John Lukesh and Marty Tangora. Helping out considerably this year were three members of last year's outstanding freshman team. Larry Berry, tackle; Don Stocking, halfback; and Ed Krehbiel, fullback, who won starting berths. Berry averaged 50 minutes per game over the seven-game schedule.

Helping Head Coach LaBrucherie this year, again, was Al Learned who worked mainly with the line. Ed Hershberger was the senior manager for the team.

Kyle Bayes was chosen by his fellow team members as recipient of the Wheaton Trophy, presented at the fall sports banquet. Bayes received the award for his sportsmanship, moral influence, and scholarship.



Bert LaBrucherie  
Coach



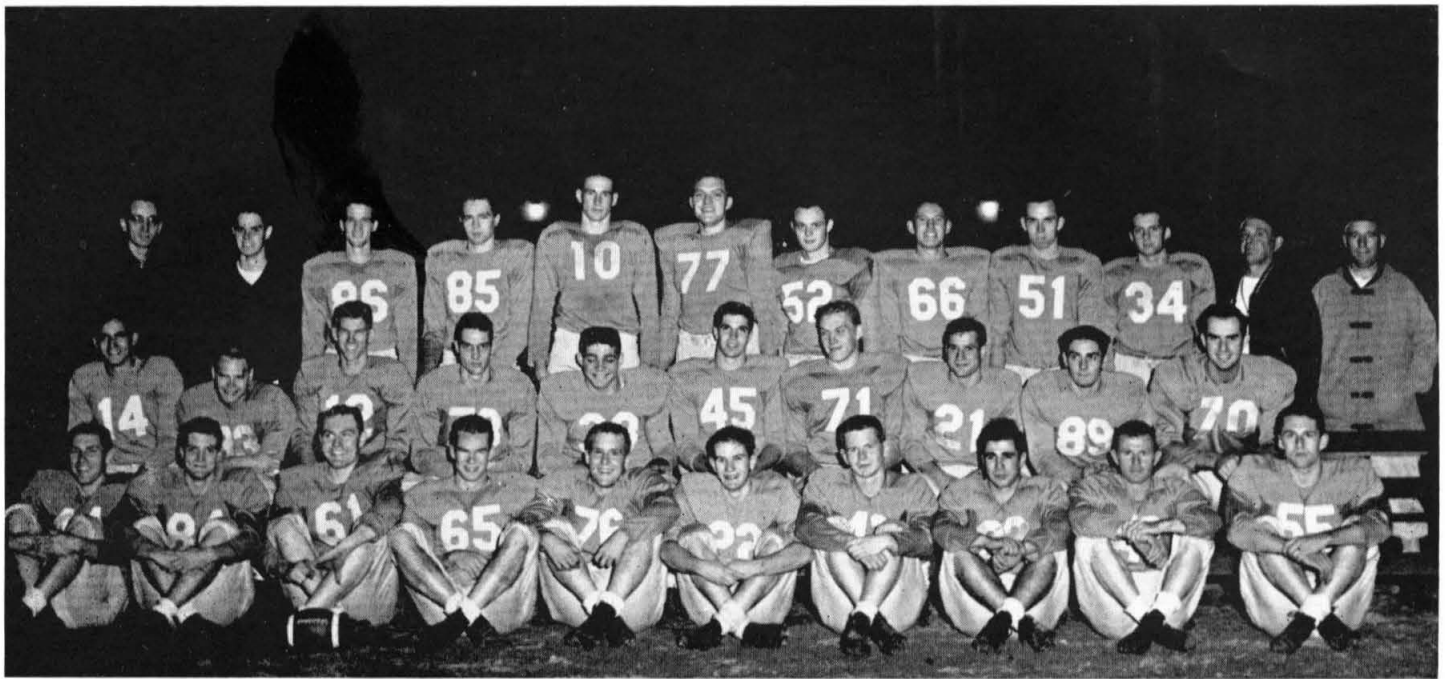
Phil Conley  
Ed Krehbiel



Larry Berry  
Kyle Bayes



Larry Whitlow  
Del McCune

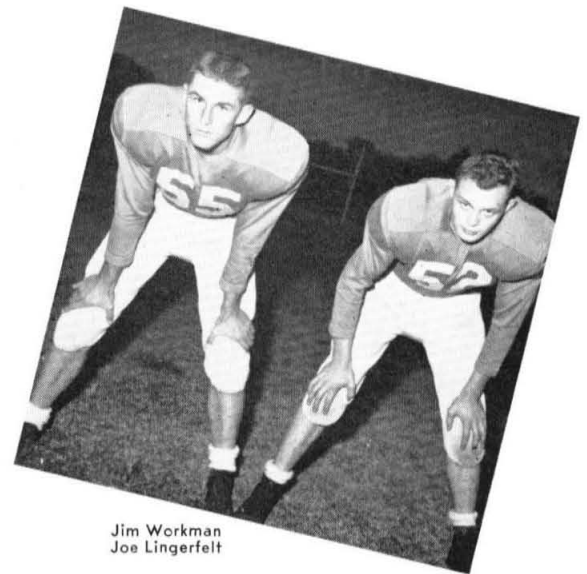


FIRST ROW, left to right: Marty Tangora, Gene Stanley, Larry Berry, Kyle Bayes, Tim Harrington, Don Stocking, Dick Herlein, Steve Nathanson, Chuck Norman, Jim Workman. SECOND ROW: Dick Van Kirk, Jerry Lawrence, Fritz Benning, John Myers, Ed Krehbiel, Chuck Malone, Gene Beisman, John Lukesh, Louis Bogdanovich, Del McCune. THIRD ROW: Ed Hershberger (Manager), Martin Connealy (Manager), Bill Moeur, Ed Nelson, Phil Conley (Captain), Larry Whitlow, Joe Lingerfelt, Dick Baron, Lance Hays, Bruce Blackie, Bert LaBrucherie (Coach), Al Learned (Assistant Coach).

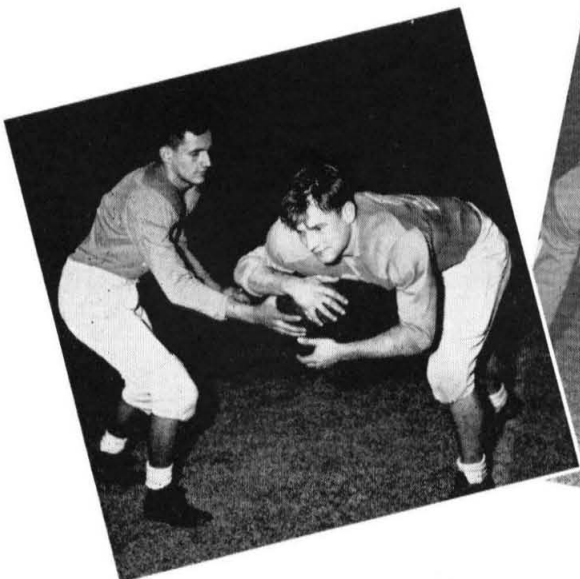
### FAST TAKE-OFF

Rocketing into the new football season, Caltech stunned the Redlands Bulldogs for two quarters, score tied 7-7 at the half, before tiring to lose their first game, 14-7. Highly regarded Redlands were thrown completely off balance as the Beavers drove to the Bulldogs' 20-yard line before losing the ball on downs. Unable to gain, Redlands punted to Don Stocking on his own 48. Stocking swivel-hipped through the entire Bulldog squad to score. Malone's conversion made it 7-0.

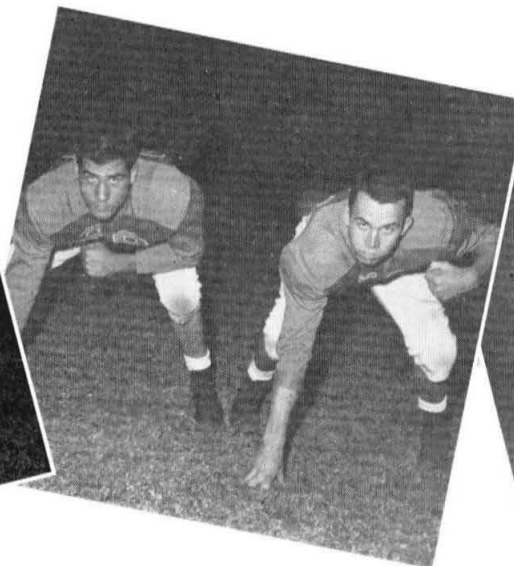
On the kick-off after touchdown Kyle Bayes recovered the Bulldogs' fumble on their 45. Conley and Krehbiel carried to the two-yard line, where two scoring thrusts were called back by penalties. Redlands took the ball and drove to score, tying the game. The winning score was on a 44-yard screen pass and run late in the third period.



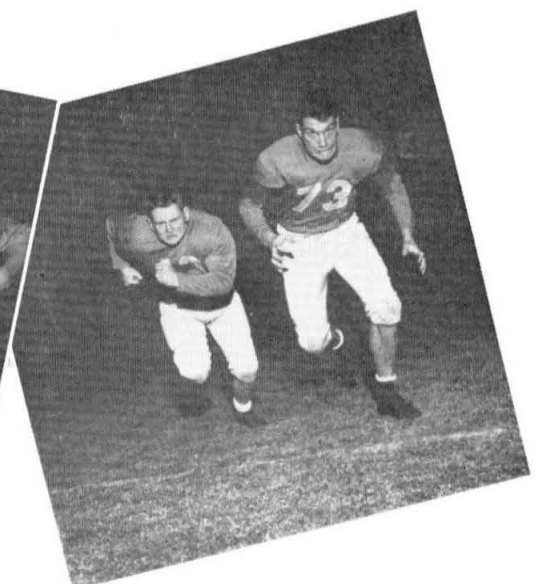
Jim Workman  
Joe Lingerfelt



Dick Van Kirk  
John Lukesh



Galen Sarno  
Lance Hays



Dick Herlein  
John Myers



Gene Beisman  
Tim Harrington



Jerry Lawrence  
Bruce Blackie



Dick Baron  
Gene Stanley

### PEAK PERFORMANCE

Following up their first week's surprise, hopes were high for the Beavers' first triumph in over three years of play as they came up against Cal Poly of San Dimas. Held scoreless the first half the Beavers were not to be denied as they poured across two counters in the third period, and three in the fourth. Two of the scores in the final period were called back, as the Beavers were again hampered by penalties, but there remained enough for a 19-0 triumph.

### BEAVERS TUMBLE

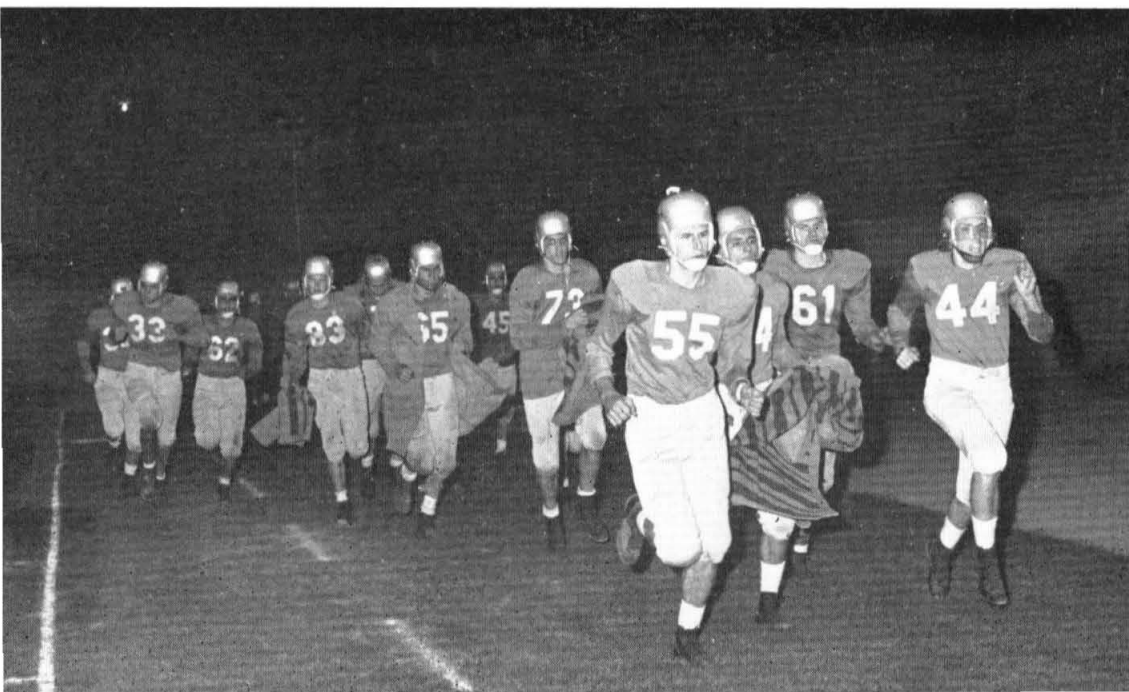
Riding high on the performances of the two previous Saturdays, the football hopes of the Beavers received a tremendous setback at the hands of the defending SCIAC champions, the Pomona Sageshens, as Caltech was swamped 34-0. Unable to mount a scoring threat until the third period, the Beavers were slowed down by fumbles and inconsistent passing throughout the game. The only high point of the afternoon was the running of halfback Chuck Malone, who averaged 6.4 yards per carry in the game to take over the conference rushing lead.

### BEAVERS DROP NONCONFERENCE TILT

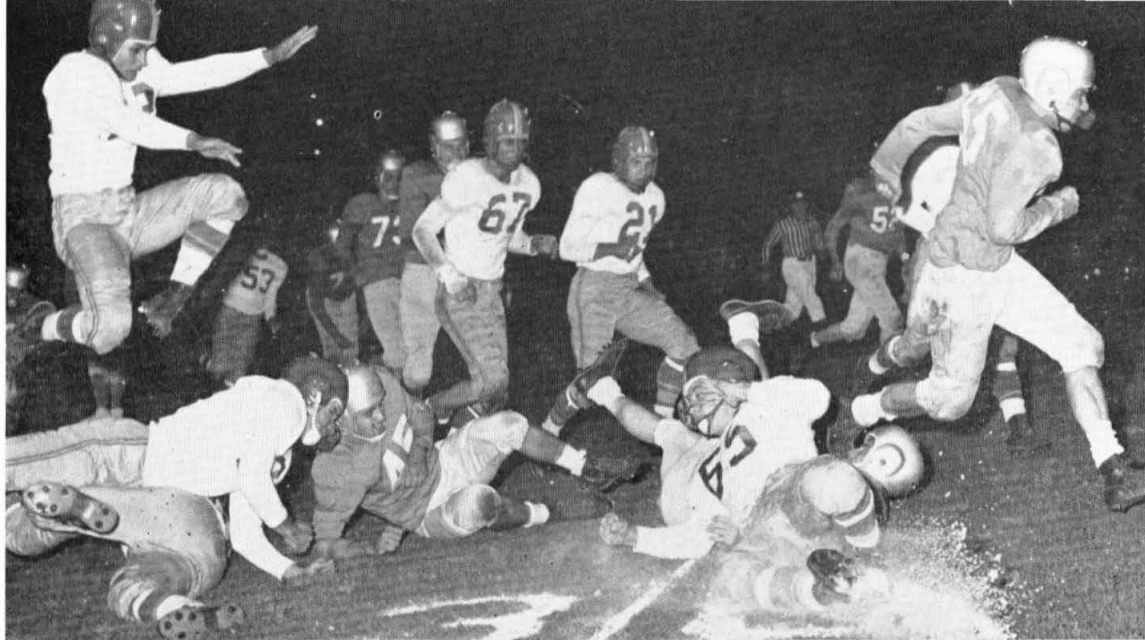
Phil Conley's seven completions out of 11 passes attempted was not enough to keep the sputtering Caltech offense moving as the Beavers fell before the Long Beach State Forty-niners 32-6. Fullback Ed Krehbiel scored Tech's lone touchdown, by climaxing a 67-yard drive with a one-foot plunge for the score.



Bill Moeur  
Ed Nelson







### POETS POUND PIG-SKINNERS

Spotting Whittier three touchdowns in the first half, Caltech came storming back in the third period, threatening on four separate drives inside the 15-yard line. The entire third period was played in Poet territory. Quarterback Van Kirk could not punch the scoring button, although his touchdown pass into the end zone was on target, only to be dropped.

The Poets scored once more in the fourth period to make the final tally 27-0 over the Beavers.

### HOMECOMING GAME

Jumping back into conference fray after a two-week rest, the Caltech Beavers dropped their first Homecoming Game 35-7 to Occidental, in the Rose Bowl.

Unveiling a new double-wing offense, the Beavers could only score once. The six-pointer came at the end of the third period with Don Stocking carrying the final 16 yards on a reverse from the double-wing. Malone converted, making the score 21-7 as the fourth quarter began.

Bengal power could not be denied as the Oxy team scored twice more in the final period, on a 25-yard end sweep and a blocked Beaver kick.



Marty Tangora  
Chuck Norman



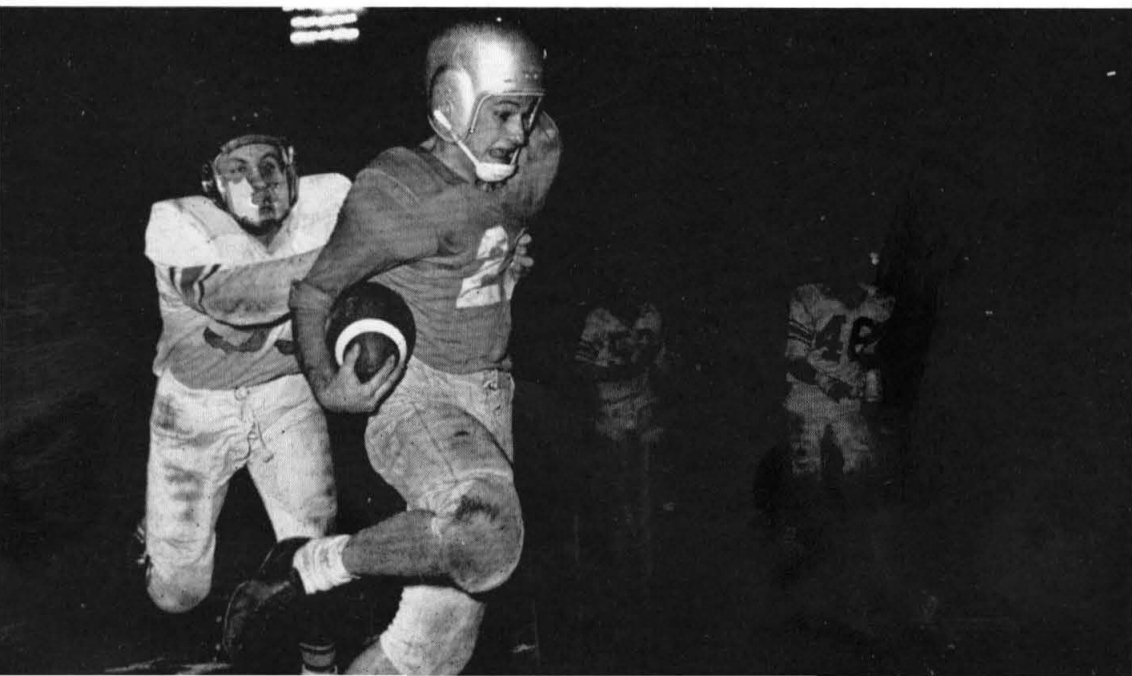


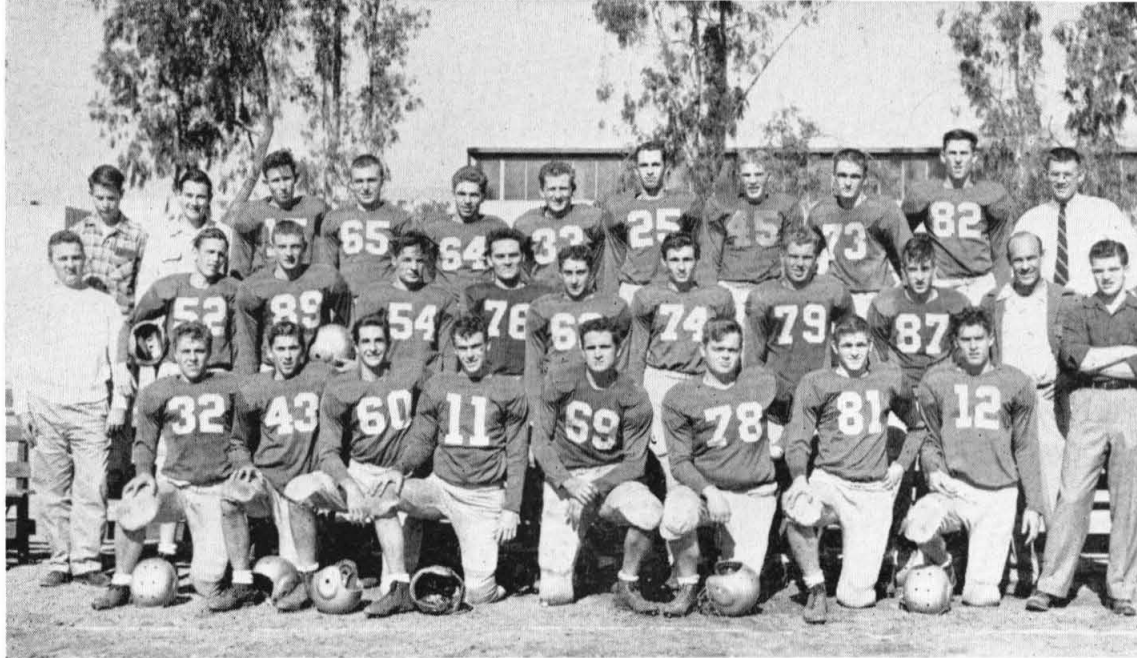
**BY A HAIR**

Unleashing a tremendous running game, Caltech rallied on dashes of 19, 90, 70, 38, and 25 yards to roll up their largest point total of the season, only to drop a free-scoring contest to the La Verne Leopards. Carrying the ball in the touchdown parade were Ed Krehbiel, Don Stocking, Phil Conley, Chuck Malone, and Dick Van Kirk.

La Verne rallied for four touchdowns in the last quarter to edge the Beavers 34-32. The final tally came on a recovered fumble in the Beaver end zone after a wild pass from center went over Conley's head.

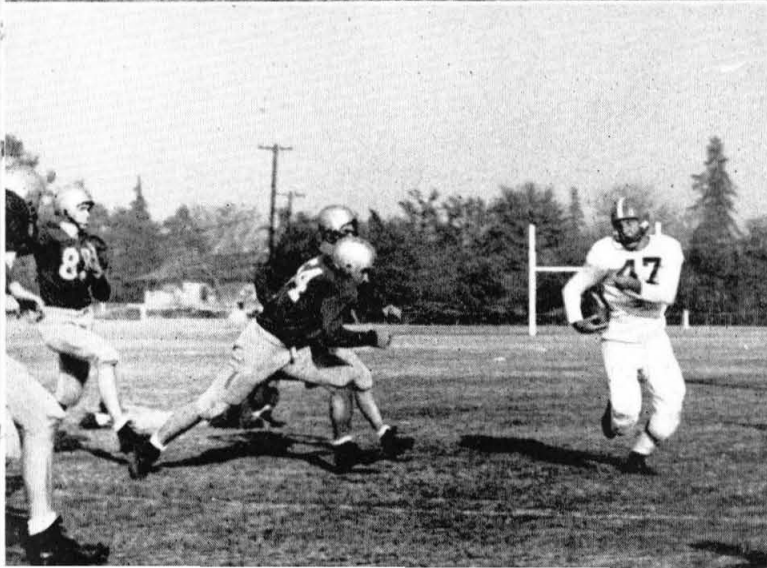
7.....Caltech	Redlands .....	14	6.....Caltech	L.B. State .....	32
19.....Caltech	Cal Poly (S.D.) .....	0	0.....Caltech	Whittier .....	27
0.....Caltech	Pomona .....	34	7.....Caltech	Occidental .....	35
			32.....Caltech	La Verne.....	34





FIRST ROW, left to right: Gus Gustafson, Fred Newman, Keith Brown, Neal deGaston, John Stevens, Tom Morton, Gordon Baird, Bob Ingram, Lloyd Best (Coach). SECOND ROW: Jim Myers (Mgr.), Eric Rix, Tony Leonard, John Conover, DeLoyce Alcorn, Wally Bear, Bob Thornton, Russ Pitzer, John Kelly, Ed Preisler (Coach). THIRD ROW: Gordon Hughes (Mgr.), Bernie Malofsky (Mgr.), Mike Engleberg, Tom Worthen, Gus Akselrod, John Evanhoe, Joe Jurca, John Price, Dave Wilson (Coach).

## *fresh football*



Faced with the problem of building a squad of almost completely inexperienced men, coaches Ed Preisler and Dave Wilson succeeded in fielding a fighting frosh eleven. The Tech squad always took the field with plenty of spirit, but lack of experience proved fatal as the frosh failed to win a game. Constantly outweighed and often hopelessly outclassed, the frosh gridders never quit, their best performances often coming when they were far behind. The team turned in a creditable performance and the experience they gained should prove invaluable to future varsity squads.

Co-captains Newman and Pitzer spearheaded the frosh attack with Pitzer doing an outstanding job at his tackle position and Newman running well out of his halfback spot on offense or defending the flank on defense. Ingram performed well at the quarterback slot directing the Tech offense and often running or passing for sizeable gains. Linemen Stevens and Alcorn played consistently well at their guard and tackle positions while center Conover proved outstanding as a line-backer. These men and others will be welcome additions to next year's varsity team.

6.....	Caltech	Pomona .....	28
0.....	Caltech	Occidental .....	40
13.....	Caltech	Whittier .....	34
0.....	Caltech	Redlands .....	70





VARSITY  
 FIRST ROW, left to right: Don Lewis, Dan Wulff, Fred Witteborn. SECOND ROW: Bill Dietrich (Manager),  
 Dave Yount, Tom Moore, Reed Saunders, Julian Cole (Coach).

23.....	Caltech	Nazarene	.....	32
35.....	Caltech	Redlands	.....	20
47.....	Caltech	Occidental	.....	15
16.....	Caltech	Whittier	.....	43
20.....	Caltech	Pomona	.....	38
23.....	Caltech	Nazarene	.....	32

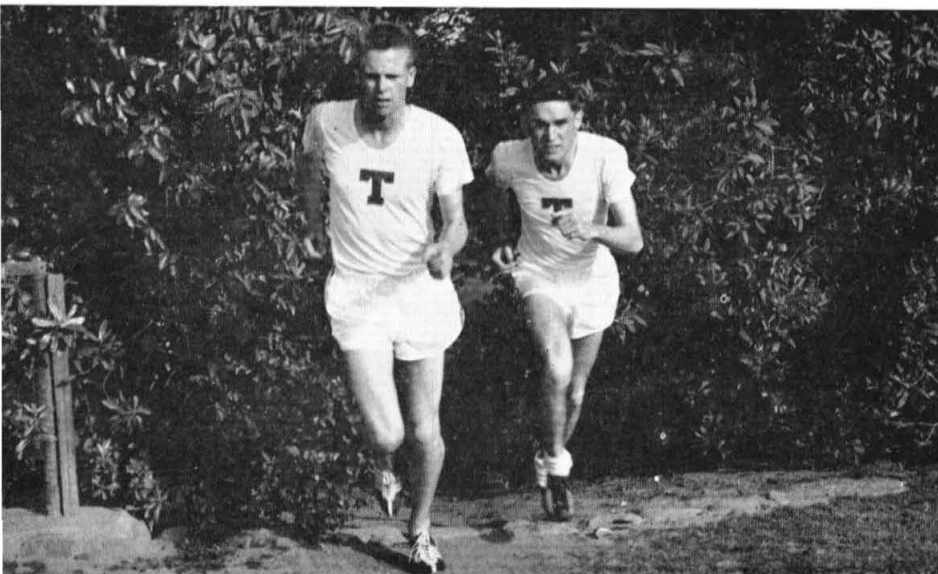
Following Occidental's sweep of seven of the first nine places Caltech's cross-country team swept the next five places to take second place in the Varsity Cross-Country Meet with 60 points. Occidental had a perfect 15.

Season record of the Beavers was a sparkling four wins and two losses. Both losses, however, came at the hands of conference foes, Redlands and Occidental, to make the team's conference mark an even .500.

Following the Conference meet Fred Witteborn and Don Lewis, who usually led Caltech's scoring in the same order, were elected co-captains of the

## *cross-country*

Dick Lewis and Fred Witteborn



squad. Coaching the team again this year was J. S. Cole. Team manager was Bill Dietrich.

Starting the season with a triumph over Pasadena Nazarene, the Beavers promised plenty of power for the coming conference foes as they took four of the first five places.

Danny Wulff pulled the surprise of the season in the first conference dual meet of the season against Redlands as he beat the rest of the Beaver team to the wire but came in third as the Bulldogs won 20-35.

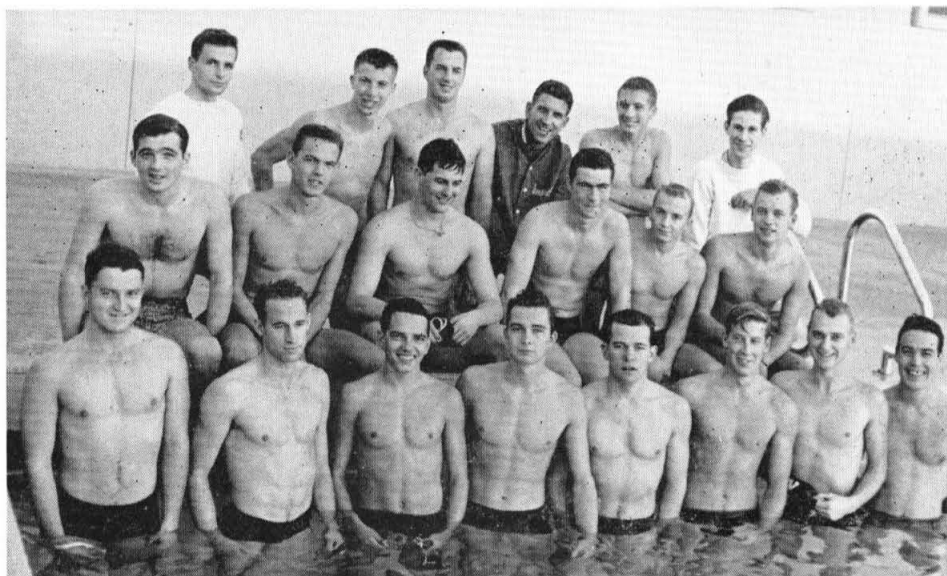
The following week end Oxy sophomore Ty Hadley smashed his home course record to lead the Tigers to a smashing 15-47 triumph over the Beavers. Oxy swept the first six places in registering their triumph.

Rising to full power, the thin-clads rang up victories against Whittier, Pomona and Nazarene in their next outings. The Nazarene contest was the closest of the season with the Beavers winding up on top to edge the Crusaders, 23-32.

In their final meet Caltech placed second to Occidental in the Conference meet.

Caltech's powerful tank and net men splashed their way to the conference second berth this year under Warren Emery, a new addition to Tech's coaching staff. Winning all league games except their final tilt with Occidental, the water babies were again denied the conference crown by a narrow margin.

The team was sparked by Jim Ball's high-scoring punch from the sprint position while Vince Taylor and Bill Davis completed the forward scoring threat. Don Wiberg manned the vital goalie spot this year after Fritz Trapnell was benched by an early-season leg injury. Ed Park and Dick Johnson in guard positions and Clarke Rees at centerback formed the basic defensive wall that helped Tech maintain its impressive 2 to 1 points-for, points-against ratio for this season's play.



VARSITY

FIRST ROW, left to right: Jim Ball, Bill Davis, Vince Taylor, Clarke Rees, Dick Johnson, Ed Park, Don Wiberg, Fritz Trapnell. SECOND ROW: Ross Brown, Ron Leonard, Bob Smoak, Blaine Navroth, John Thomas, Keith Martin. THIRD ROW: Eric Johnson (Manager), Dick Fiddler, Ron Dettling, Web Emery (Coach), Mike Konrad, John Price (Manager).

## *water polo*

Caltech's freshman water polo team wound up the year in a blaze of glory after a poor season as they pushed the Oxy freshmen to the limit before bowing 9-7. The little Beavers' center forward, Blandford, scored all of his team's points, five of them in the second half. Blandford was elected captain of the squad after scoring 13 of the team's 17 points this season.

Starting the year by playing half a game against LACC, the freshmen were sunk 8-0. Against Pomona in their next game they broke into the scoring column at last but came out on the short end of an 18-2 tally. Fullerton JC was the next team to victimize the frosh 10-4. The frosh dropped two more games, one to Occidental and a second to Pomona, by identical scores, 6-2. The final game against Occidental was the high point of the season as the frosh staged a stirring rally in the second half only to fall by a two-point margin 9-7.

0.....	Caltech	LACC (1/3 game).....	8
2.....	Caltech	Pomona .....	18
4.....	Caltech	Fullerton JC .....	10
2.....	Caltech	Occidental .....	6
2.....	Caltech	Pomona .....	6
7.....	Caltech	Occidental .....	9

FROSH

FIRST ROW, left to right: Dave Luenberger, Dick Mittleman, Don Owings, Tom Hilton, Mike Milder. SECOND ROW: Norm Velinty, Bob Blandford, Web Emery (Coach), Jerry Scott, Bob Pailthrop, Carl Nelson.





VARSITY

SEATED, left to right: Larry Tenn, Ed Berry, Olax Boedeker, Harry Bingham, Arne Kalm, Bob Norton, Rafn Stefansson (Captain), Curt Schulze, Tony Howell. STANDING: Bob Huttenback (Coach), Joe Swindt, Jim Weaver, Sedat Sardengeeti, Jon Mathews, Harry Williams, Len Wiener, George Brifford, Rube Moulton (Manager).

*soccer*

JUNIOR VARSITY

FIRST ROW, left to right: John Lango, Dave Gardner, Lewis Linson, Bob Lang, Brent Banta, George Poor, Hugo Fischer, Dick MacAnally, Carl Maltz. SECOND ROW: Charles Miller (Coach), Robin French, Bud Penquite, Bob Defeyes, Walt Weiss, Hal Dessau, Peter Melia, George Hall, Bob Maltz, John Young (Mgr.). THIRD ROW: George Ilves, Phil Thatcher, Jim Hall, Carl Kesler, Jon Wright, Tyland Jacobson, Clark Carroll, Peter Lauritzen.





In a league composed of UCLA, Pomona, Cal Poly of San Luis Obispo and Caltech the Beavers finished third with a 3-3 record. Cal Poly, rated the top team in the west for a number of years, had a 5-1 record, UCLA 4-2, and Pomona 0-6.

The Beavers won two games from Pomona, by identical scores of 5-1; lost to UCLA 3-1 and 7-0; and split with Cal Poly, losing 8-2 and winning 5-1. This was the only defeat for Cal Poly in league play. In nonleague games the Beavers lost to USC 4-2, and tied the strong Pasadena Micron team 3-3.

Research fellow Sedat Serdengecti and Captain Rafn Stefansson, senior, were selected on the All-league team and Stefansson received the Most Valuable Player award for the second consecutive year.

The 1955 season marked the return of Coach Bob Huttenbach, who ably mentored the Beavers to three straight conference wins during 1951 and 1953, to retire the conference soccer trophy. Rube Moulton was the team manager.

First string members of the 1955 varsity squad were Stefansson, Serdengecti, Bob Norton, Olaf Boedtger, Laurence Tenn, Tony Howell, Curt Schulze, Arne Kalm, Harry Bingham, Ed Berry and Leonard Wiener.

A group of thirty men, none of whom had played soccer before coming to Caltech, composed the Junior Varsity squad. Playing a six-game schedule against Midlands, Thatcher and the UCLA JV's, the Juniors lost all contests with their 1-0 defeat by UCLA in the final game being their best effort of the season. This was the closest game the UCLA JV's had all year.

Outstanding among the JV players were Banta, Thacher, Nelson, Linson, Sugahara, Hall and Weiss. Dietz, Finsher, French, Dessau, Ilves and Poor also gained a lot of experience in the games.

3.....	Caltech	Pasadena M's.....	3
2.....	Caltech	Cal Poly .....	8
5.....	Caltech	Pomona .....	1
1.....	Caltech	UCLA .....	3
2.....	Caltech	USC .....	4
5.....	Caltech	Pomona .....	1
0.....	Caltech	UCLA .....	7
5.....	Caltech	Cal Poly.....	1





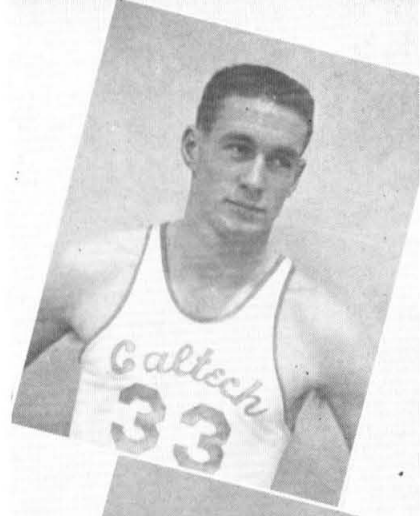
FIRST ROW, left to right: Fred Ishihara, Jim Welch, Dick Van Kirk, Roland Moody, Kay Sugahara, Sonny Nelson, Bill Kern. SECOND ROW: Coach Carl Shy, Dan Chilton, Howard Bloomberg, Jim Workman, Phil Conley, Herb Rauch, Don Wiberg, Glenn Converse, Jim Ball.

## *basketball*

The pride of Caltech's 1955-56 basketball team was in the bright star of Phil Conley, who tied the Caltech scoring record with 33 points in his last game and was selected as a member of the all-conference first team. Conley, who was tabbed second-string all-conference in football, made his mark of 33 points against Pomona-Claremont, scoring the team's first 12 points himself. Fred Anson, called all-time great of the 1953-54 championship squad, is the other holder of the record, having set it against Occidental in 1954.

Conley, the team captain, played 85% of the total game time, scored an average of 18.4 points per game, and at the season's end was voted the recipient of the Vesper Trophy by his fellow teammates for his outstanding sportsmanship, improvement and good influence.

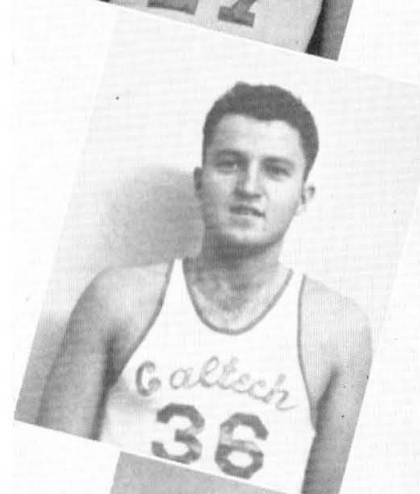
Lack of scoring punch handicapped the Beavers as they went a complete season without a win for the first time since 1939. Sonny Nelson, sophomore guard, who had been outstanding as a freshman, was injured and could not see action for a large part of the season, and had the next highest point-per-game average with 12. Jim Ball, a senior, came out for the team in midseason and captured a berth on the first string, scoring 6.9 points per game. Other players seeing action in most of the games were Jim Welsh, 6; Howard Bloomberg, 1; Glen Converse, 3; Pollard Moody, 4; Jim Workman, 7; Dan Chilton, 2; and Dick Van Kirk, 5. Conley, Ball, Moody, and Chilton were seniors.



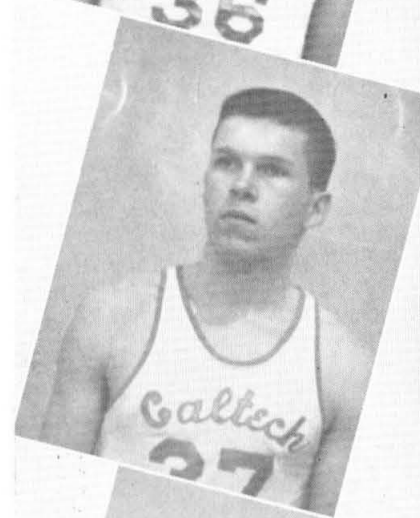
Phil Conley



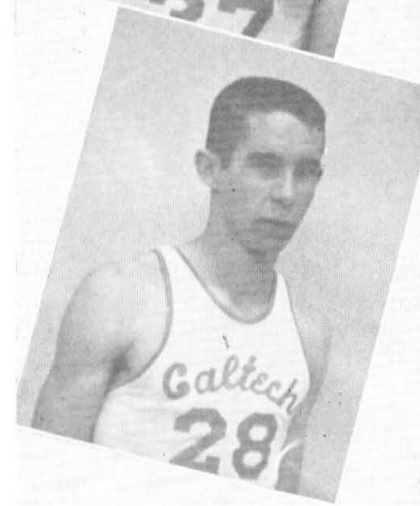
Jim Welsh



Jim Ball

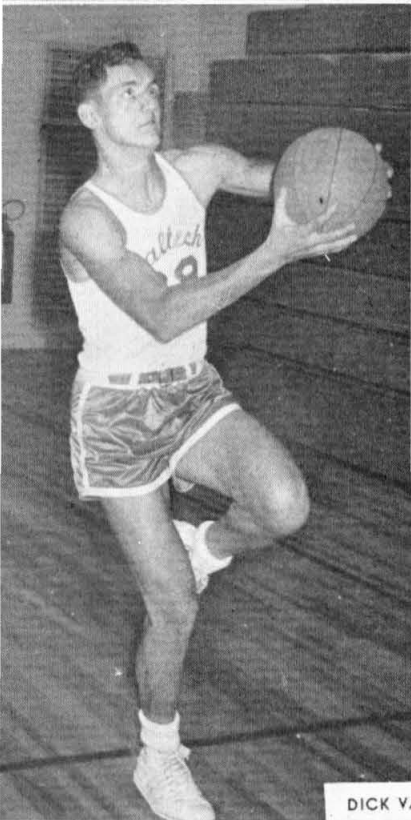


Glenn Converse

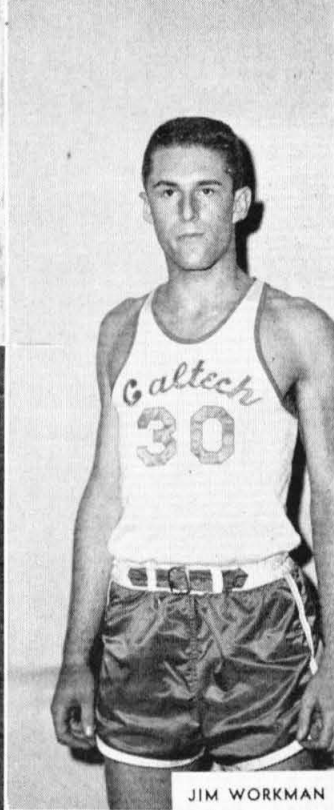


Sonny Nelson

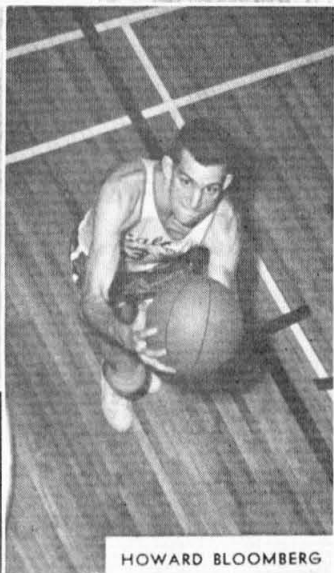
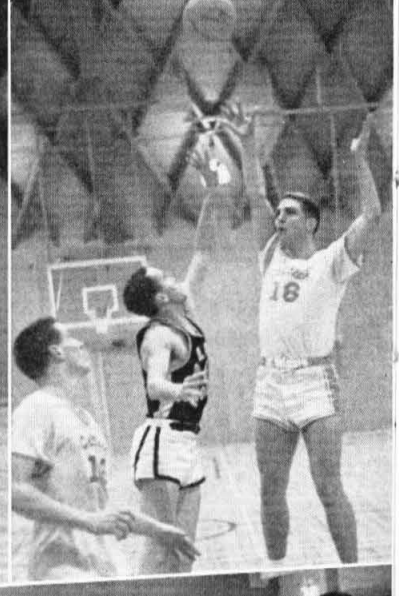
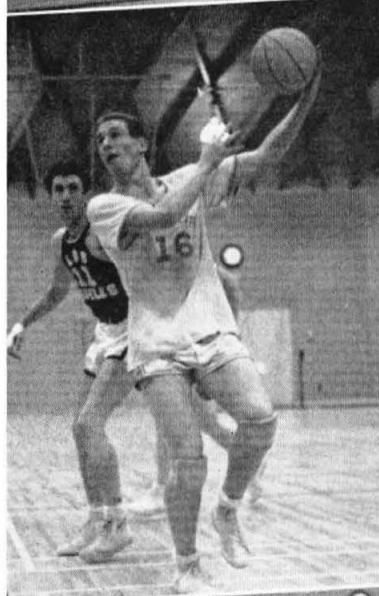




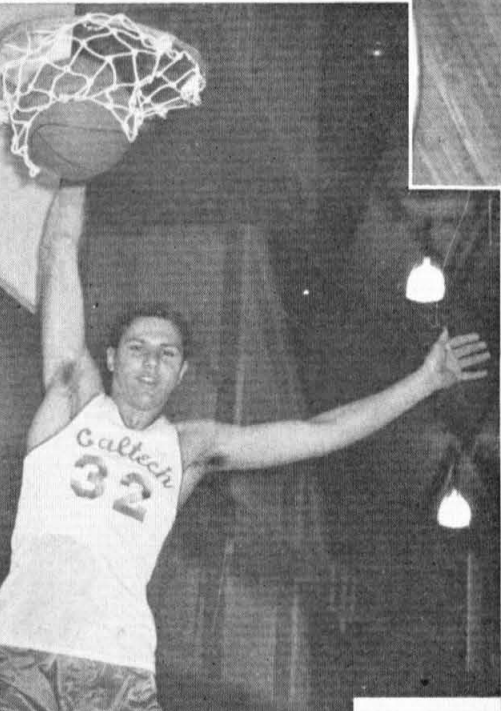
DICK VAN KIRK



JIM WORKMAN



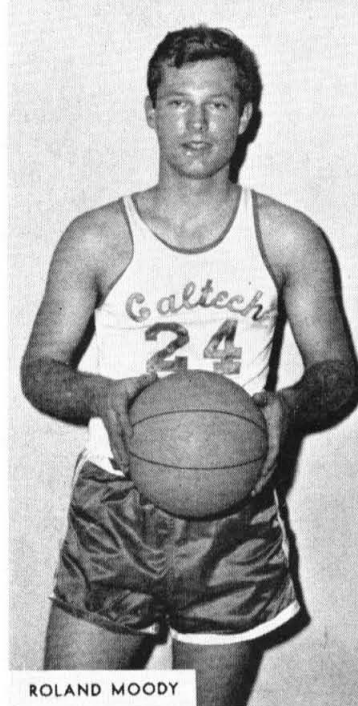
HOWARD BLOOMBERG



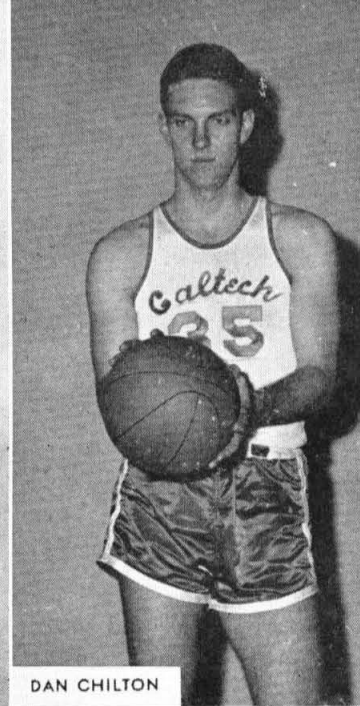
HERB RAUCH



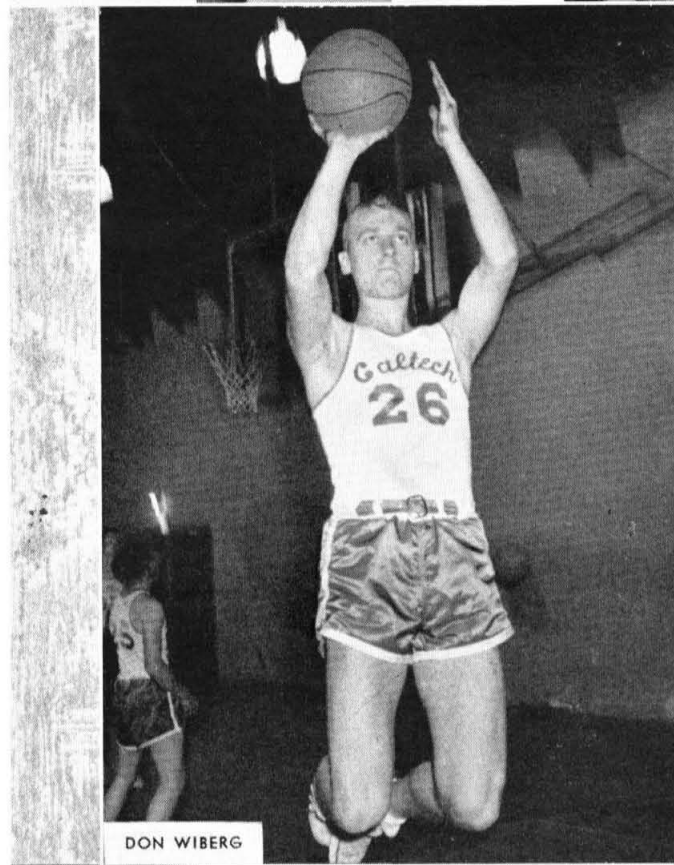




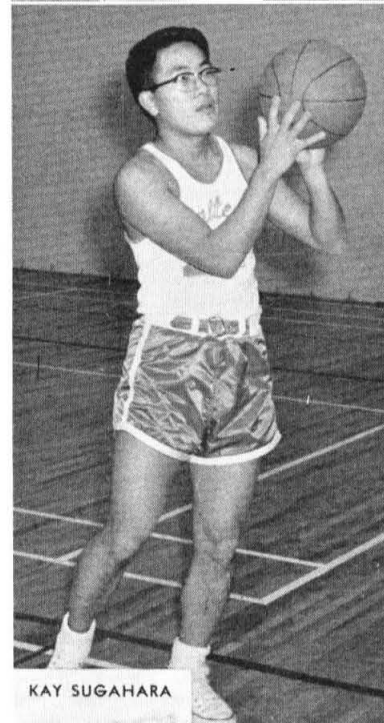
ROLAND MOODY



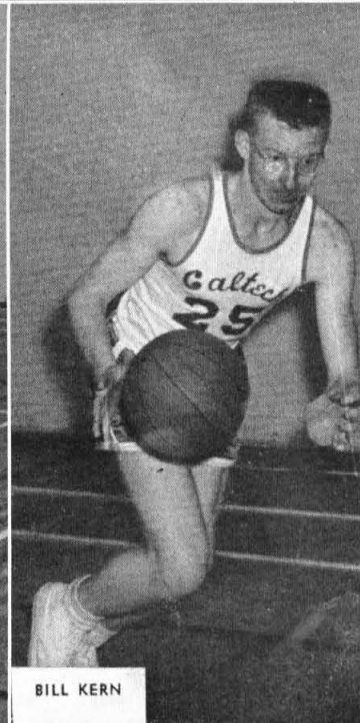
DAN CHILTON



DON WIBERG



KAY SUGAHARA



BILL KERN



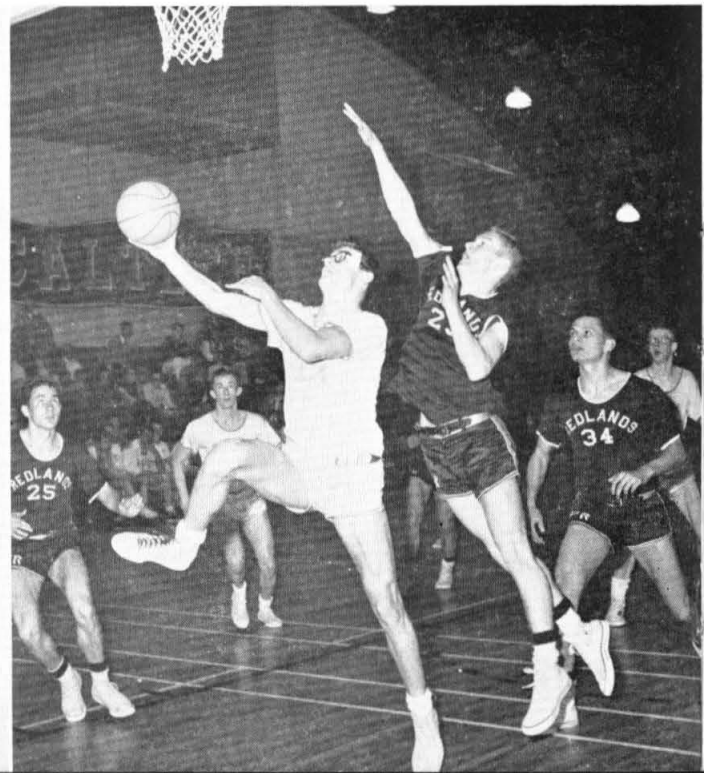
FIRST ROW, left to right: Fred Newman, Ray Magdalene, Ken Scholtz, Jim Cribbs, Doug Christman. SECOND ROW: Jack Bass, Ty Jacobson, Roger Hoelter, Jerry Hansen, Gene Robkin, Gorden Hughes. THIRD ROW: Dick Montgomery (Mgr.), Gordon Baird, Bob Ingram, Bob Pailthrop, Jerry Just, John Lango, Coach Ed Preisler.

## *fresh basketball*

This was far from the biggest year that a freshman basketball team has had, but it did provide its share of hard play and outstanding individuals. The team won two games and lost fifteen, but the half dozen close ones that went the other way might have given them an even season. The victories came against Cal Poly and LA Pacific, 37-34, and 73-70, respectively. Four overtimes were required in the Pacific game before the Junior Beavers put it on ice. One of the highlights of the season was the Pasadena Nazarene game in which guard Fred Newman scored 34 points and center Jerry Just dropped in 19. The final score was 69-62.

Losses for various reasons drastically altered the first string during the early part of the season, but it soon settled down with Fred Newman and either Ray Magdaleno, Jim Cribbs, or Jack Bass at guards, Jerry Just at center, and Bill McClure and Bob Ingram at forwards. Coach Ed Preisler worked the men into a good defensive unit toward the end of the season, but the shooting never did measure up to the defense.

After such a string of defeats, most teams would have been pretty low, but in their last game of the season the Beavers put on one of their best games of the year, losing to Pomona-C Claremont 66-61 in the final minute of play.





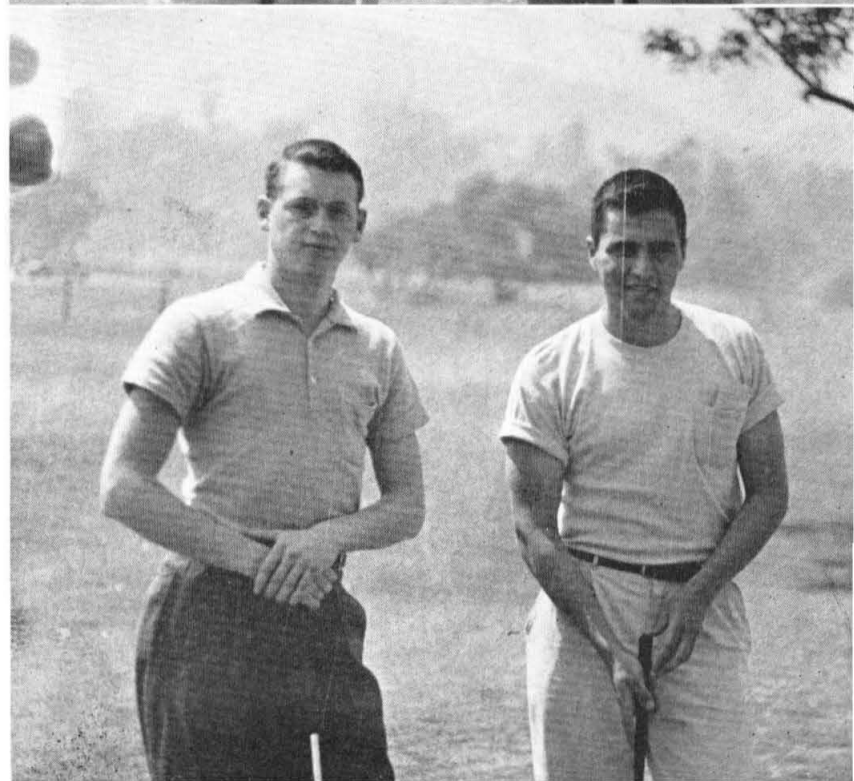
# *golf*

With the return of Don Turcotte, ex-Tech par shooter, the Tech golf team gained a much-needed shot in the arm at the coaching slot.

Having graduated three members from last year's lineup, the linksters have been faced with the job of replacement. These spots have been filled by Pete Finley, junior, and two sophomores, Ed Shuster and Wayne Kreger. Returnees from last year's team are Pete Abbey, Paul Lindfors, Jon Robinson, and Harrison Schmitt.

In early season matches the team has been rather inconsistent. Their first effort resulted in a win over Cal Baptist, followed by losses to a strong Pomona team and a championship University of Arizona team. The Tech team will face Occidental and Whittier each twice and Pomona once more in conference play, and has been invited to both the Northern and Southern California Intercollegiate Open Tournaments.

Faced with only one graduation loss this year, the team has bright prospects for the 1957 season.



Paul Lindfors  
Pete Finley

Ed Schuster  
Peter Abbey

Wayne Kreger  
Jack Schmitt



FIRST ROW, left to right: Jim Koontz, Ray Weyman, Hal Morris, Chuck Norman, Mike Duke, Fred Ishihara, Bill Kern, Tony Ezikiel Howell. SECOND ROW: Gene Nelson, Ed Berry, Don Stocking, Chuck Malone, Ed Nelson, Al Goldberg, Hubert Dubb, Neal Herman, Bill Dietrich.

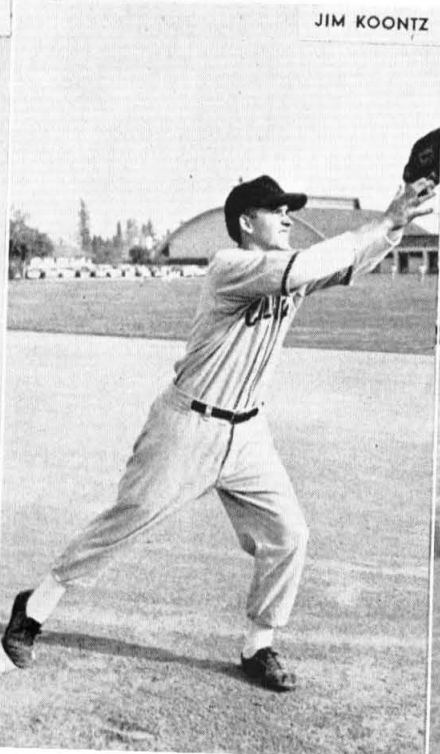


Ed Priestler  
Coach

## *baseball*



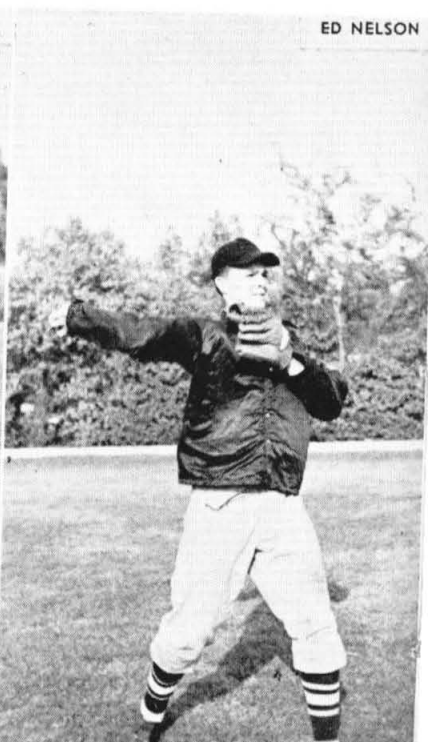
RAY WEYMAN



JIM KOONTZ



CHUCK MALONE



ED NELSON

With ace pitcher Ray Weyman and three infield stars, Gene Nelson, Chuck Norman, and Jim Koontz, playing their last year of ball, 1956 appeared the most likely year for Tech's pennant dreams to come true. An excellent preseason schedule, including a very profitable three-game trip to San Diego during spring vacation, had helped to overcome what had been in past seasons a chronic lack of preseason practice. The team was very strong defensively, as had shown up in the low number of runs scored against it in preseason games, but the old Caltech bugaboo of inconsistent hitting had lost games that should otherwise have been won easily. Later improvement in hitting had lent encouragement, however, and as we went to press the team plans to make 1956 a memorable year for Caltech baseball.

The outfield, usually consisting of Hal Morris, Ed Nelson, and either Chuck Malone, Hubert Dubb, or Chuck Stone, had turned in some fine games this spring and was showing itself consistently effective in covering the outer garden. The infield was undoubtedly one of the finest in the league, with Gene Nelson handling third, Norman covering the shortstop position, Don Stocking at second, and Koontz playing beautifully at first base. Much reliance was placed in the strong left arm of the previous year's All-Conference pitcher, Ray Weyman, but should he need it he had the capable assistance of Ed Nelson, Tony Howell, and Al Goldberg. Neil Herman and Mike Duke were handling the catching duties commendably. Morris, Weyman, Ed Nelson, Norman, Herman, Duke, and Gene Nelson were all promising to hit well, and the team did not lack depth at any position.

CHUCK NORMAN



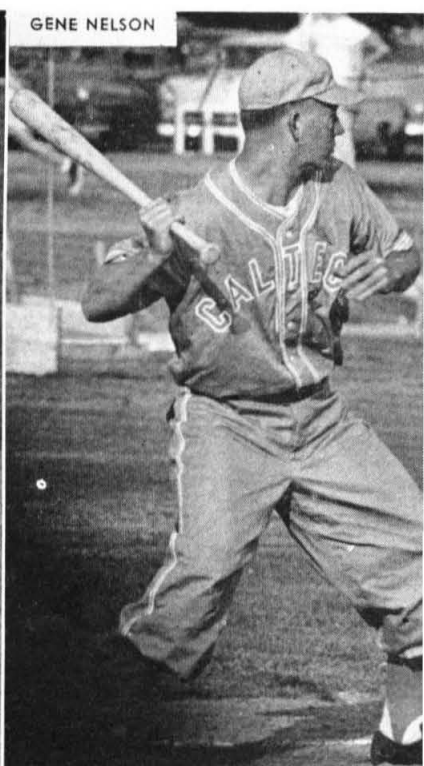
NEIL HERMAN



DON STOCKING



GENE NELSON







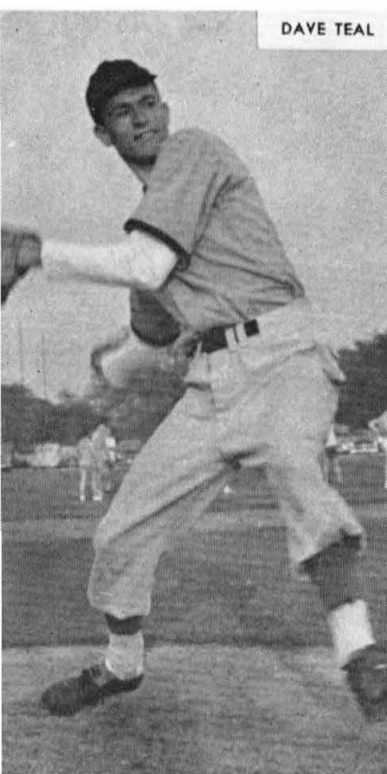
FIRST ROW, left to right: Mike Jansen, Walt Johnson, John Kelley, Bob Huebotter, John Everitt. SECOND ROW: Dick Montgomery, Dave Teal, Ken Scholtz, Elridge Moores, Jim Coe, Coach Dave Wilson.

## *fresh baseball*

The picture looked a bit ragged for the freshman baseballers at the start of the season—there just were not enough men to fill the positions. But within two short weeks, Coach Dave Wilson rounded up a steady group to provide the backbone of the team.

Making the big noise behind the plate was Bob Huebotter, a man with a good arm, a good eye, and a steady line of chatter. Fred Newman held down the hot corner with a really deadly throw and a large share of base hits. At shortstop Dick Teal covered a lot of territory in snagging grounders, and his hustle on covering up left little to be desired. Jim Coe worked the season at second sack, a fast-moving position on those double play balls. Mike Jansen and Kelly Kelly traded off at first base; all we lacked here was a little height.

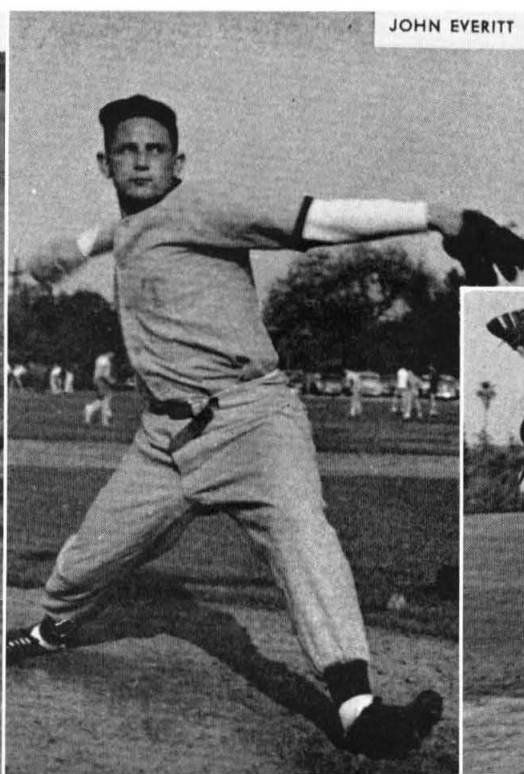
The outfield was ably played by Walt Johnson, Mike Talcott, Joe Jurca, Ken Sholtz, and Doug Christman. We lacked depth in the pitching department; Johnson and Kelly took the majority of the mound chores, with Newman helping out on occasion. The men had a bit of difficulty in learning how to work as a team, as the proportionately high number of errors in their early games indicates. But by the middle of the season, the team had settled down into a smoothly functioning unit.



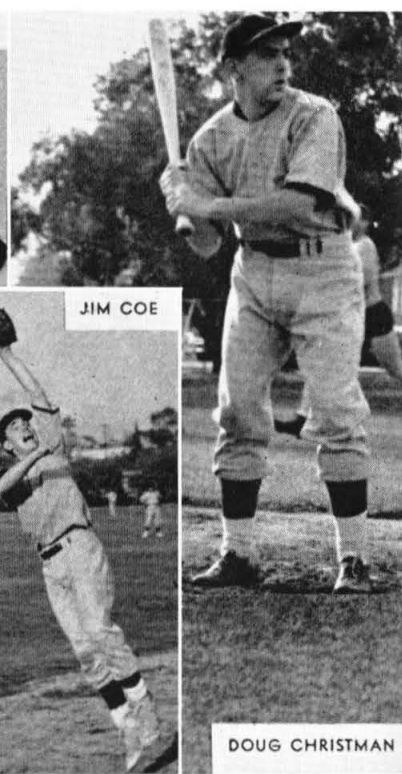
DAVE TEAL



WALT JOHNSON



JOHN EVERITT



DOUG CHRISTMAN



JIM COE



**VARSITY**

FIRST ROW, left to right: Bob Tokheim, Gene Barnes, Dave Yount, Reed Warriner.  
SECOND ROW: Al Poisner, Gene Barston, Tom Hays, Truman Long.



John Lamb  
Coach

***tennis***

Caltech's tennis squad showed definite improvement under the guidance of Head Coach John Lamb this year, and the racquet men look forward to an even better season in 1957.

Tech lost to Redlands early in the season, but the Beavers defeated Occidental 7-2 and went on to break about even in conference play. We won a mythical city championship by handily defeating Pasadena City College several times during the course of the season, and Caltech seemed destined for a third place in the Southern California Conference.

Only two seniors were among the men seeing frequent action this year, and the freshman squad offered one or two strong prospects. Gene Barnes was the outstanding fourth-year man, but the team's top performer, Tom Hays, will have another year of varsity competition.

Al Poisner also saw his last season, but Bernie Mueller, Bob Tokheim, Reed Warriner, and Dave Yount are returning.

Frank Cormia and Clint Frasier showed the most potential among the members of the freshman team. The frosh badly lacked depth of ability, losing all of their first conference matches on their way to a very poor season. Brent Banta, Al Porusch, Larry Ten, and John Wright comprised the rest of the team.

**FROSH**

Brent Banta, Frank Cormia, Dick Long, Allan Porush, Larry Tenn.





FIRST ROW, left to right: Bob Norton, Arne Kalm, Marty Tangora, Gordon Barienbrock, Reed Saunders. SECOND ROW: Jim Lloyd, John Lukesh, Dick Van Kirk, Phil Conley, Ed Krehbiel, Jim Workman, Chuck Bonwell, Dick Herlein. THIRD ROW: Luis Souxl, Steve Emanuel, Mike Rusch, Don Lewis, Fred Witteborn, Dan Wulff, Forrest Cleveland, Chuck Luke.

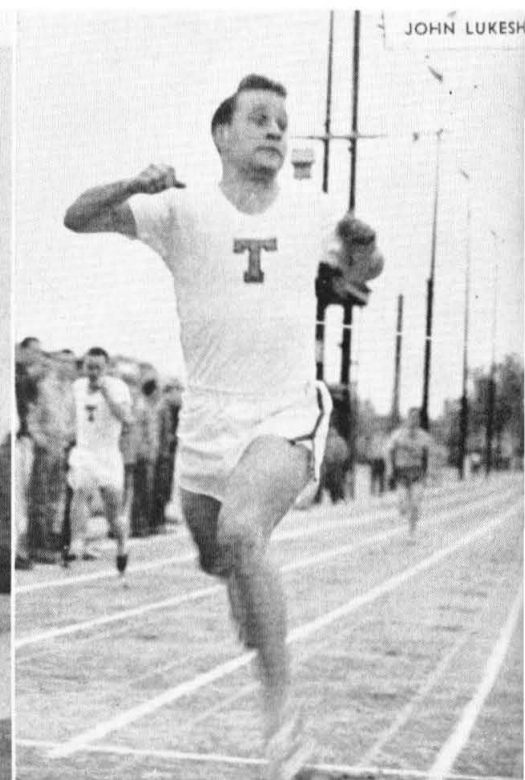
## *track*



PHIL CONLEY



ARNE KALM



JOHN LUKESH



Paced by eight returning lettermen and a large number of promising sophomores, this year's Beaver track team ranked as one of the strongest in the conference, winning two out of three dual meets and placing third in the conference relays. With good balance and depth in every event, the Beavers in their first dual meets smashed Pasadena Nazarene, 108-23, and grounded the March Air Force Base flyers 102-29, while losing only to Occidental.

Brightest star for Tech was Phil Conley, ace javelin thrower, whose early season mark of 237' 11 1/2" ranks as the third best collegiate javelin throw in history. Conley also shone in the high jump and broad jump, and was the leading pointmaker on the team.

Other standouts for the Beavers included Ted Lang, junior discus thrower, who topped the school record early in the season; sprinter John Lukesh; and half-miler Don Lewis, who unofficially broke the school record while taking second against March Field.

Roger Wileman, Chuck Bonwell, and Marty Tangora gave Caltech a strong 1-2-3 punch in the 440, while Fred Witteborn, Reed Saunders, and Danny Wulff handled the distance races. Dick Van Kirk, Gerry Lawrence, and Arne Kalm handled the hurdling chores for the Beavers, with Van Kirk and Kalm doubling in the broad jump. Ed Krehbiel and Forrest Cleveland backed up Lukesh in the sprints, and Jim Lloyd was Tech's chief threat in the pole vault.

Gordon Barienbrock, Del McCune, and Chuck Luke were other field men who came through with points in dual meets.

Conley, Lewis, Wileman, Witteborn, Kalm, Lloyd, and McCune were all seniors, and their loss will greatly weaken the team. However, Head Coach Burt La Brucherie expects help from such freshmen as Bill McClure, Tony Leonard, Ron Forbess, and Bob Ingram.



Bert LaBrucherie  
Coach

DON LEWIS



DICK VAN KIRK

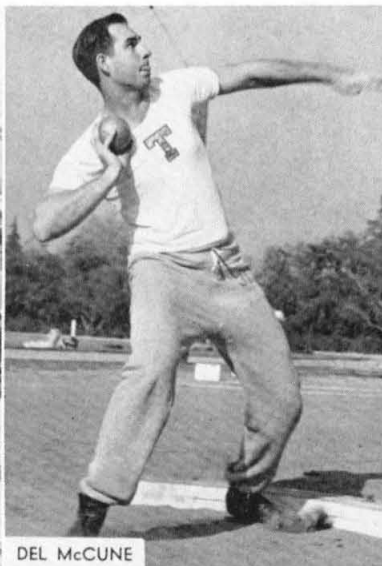


CHUCK LUKE





JOHN LUKESH



DEL McCUNE



ROGER WEILMAN



GORDON BARIENBROCK



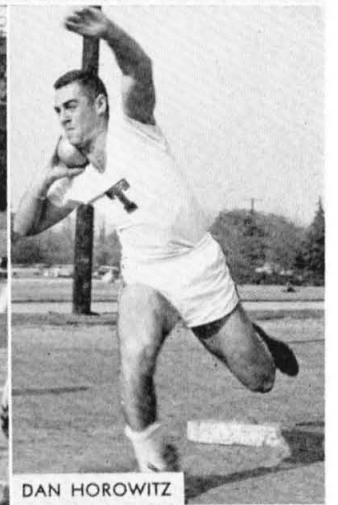
JIM WORKMAN



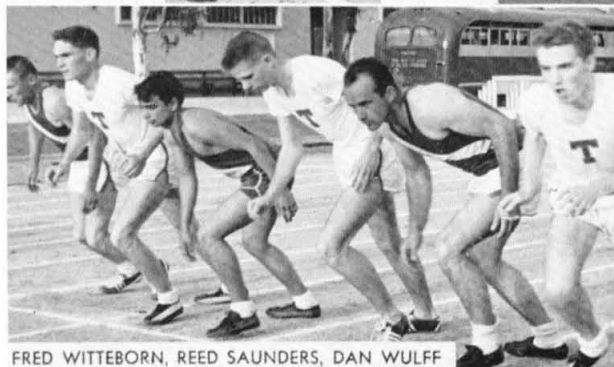
TED LANG



JERRY LAWRENCE



DAN HOROWITZ



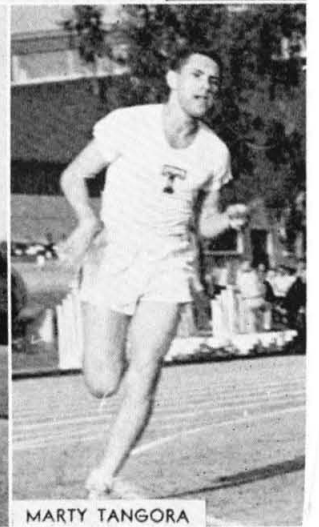
FRED WITTEBORN, REED SAUNDERS, DAN WULFF



CHUCK BONWELL



GEORGE KAUFMAN



MARTY TANGORA

*varsity track*



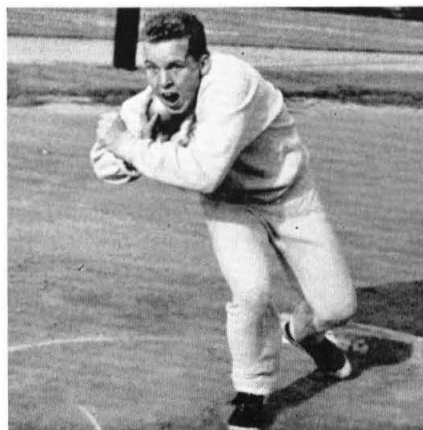
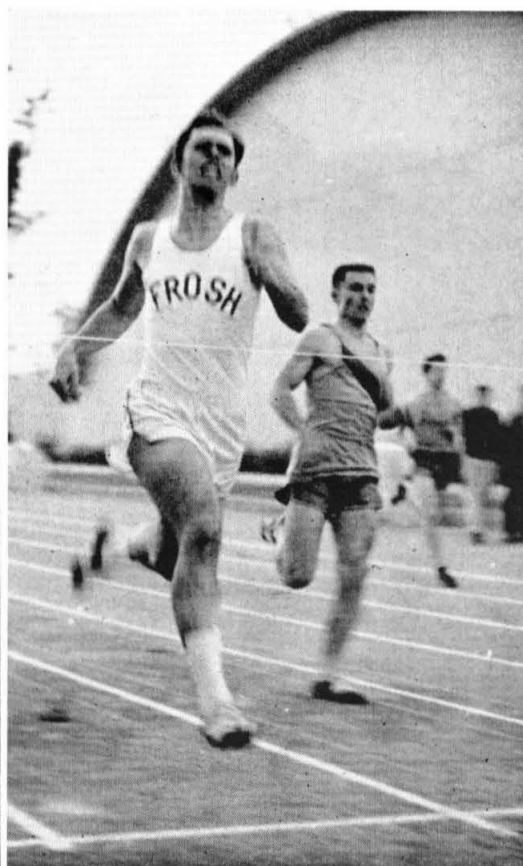
FIRST ROW, left to right: Victor Johnson, Tony Leonard, Ron Forbess, Neal de Gaston, Lewis Linson, John Price. SECOND ROW: Kirk Polson (Mgr.), Frank Childs, Dave Gregorich, Lanny Lewyn, Gene Robkin, Bob Ingram, Russ Pitzer, Barry Clark (Mgr.).

## *fresh track*

The 1956 Beaver freshmen put forth a fairly well-rounded track squad. There was at least one good man in each event, and as the season progressed encouraging improvement was seen in these yearling spikesters.

Ron Forbess and Tony Leonard were the short term runners, both running the 100-yard race. Forbess ran the 220 and 440-yard events, while Leonard and Neal De Gaston took care of the 880-yard run. In the distance races, Dave Gregorich ran both the one and two-mile events. The frosh hurdlers included Frank Childs, John Price, Bob Ingram, and Bill McClure.

Vic Johnson was the all-around field man, competing in broad jump, pole vault, discus, and javelin. The high jumpers were Bill McClure, John Price, and Frank Childs. Broad jump saw Jack Bass and Ron Forbess competing, while Lanny Lewyn competed with Vic Johnson on the javelin, and Russ Pitzer tossed the shot with discus-throwing Dave Allen.



Russ Pitzer

Eugene Robkin





**VARSITY**

FIRST ROW, left to right: Dick Johnson, Don Wiberg, Blaine Navroth, John Asmus, Clarke Rees, Bob Smoak, Jim Ball, Dick Fiddler (Mgr.). SECOND ROW: Chuck Wheatley, John Thomas, Eric Johnson, Mike Konrad, Bob Schumann, Bill Davis, Bob Knaus, John Price (Mgr.).

## *swimming*

The year 1956 saw a new swimming coach in the person of Web Emery, and 1956 saw a strong swimming team at Tech, and it began to appear as if the combination might well become one of Tech's permanent assets.

The Southern California Conference Relays opened the season, and the Beavers, although still at half strength, took second place, one and one-half points behind the Whittier Poets. As the main part of the season got underway, Tech stood favored to win the conference title.

The versatile Clarke Rees, a sophomore, was the team's outstanding individual performer. As a freshman he had bested conference freshman records in both the individual medley and the 440-yard freestyle and had broken the school backstroke record.

Rees, Bill Davis, Dick Johnson, Jim Ball, and Vince Taylor formed the core of the squad. Davis had taken second the previous year in the conference breaststroke. Johnson's events were the 220-yard freestyle and the backstroke, in which he held the school record, and Ball and Taylor swam sprints.

Diving for the Beavers were Harold Almond and Jerry Pjerrou, while Blaine Navroth and John Thomas competed in the distance events. Other key men were Bob Smoak in the backstroke, Don Wiberg in the breaststroke, and Ed Park in the sprints.

Almond, Ball, Davis, Johnson all saw their last year of competition, but the freshman team was one of the best in Caltech history, and the Beavers will have another powerful team next year.

Warren "Web" Emery  
Coach



Led by a group of outstanding freestylers, the freshman swimming team really pulverized the rest of the conference this year. With victories in their first two meets and third place in the Conference Relays, the men were off to a tremendous start.

The team's remarkable success was a real monument to Coach Webb Emery's development of latent talent. Before the men ever hit the water, they had been working on weeks of calisthenics for hours a day. Then when the men began recording times, all the work began to show. Keith Brown and Elmer Sanborn, the preseason hopes, both turned in times which were well below a minute for the hundred. Don Owings, without previous experience, tied the freshman breast stroke record in his first time trial—quite a start!

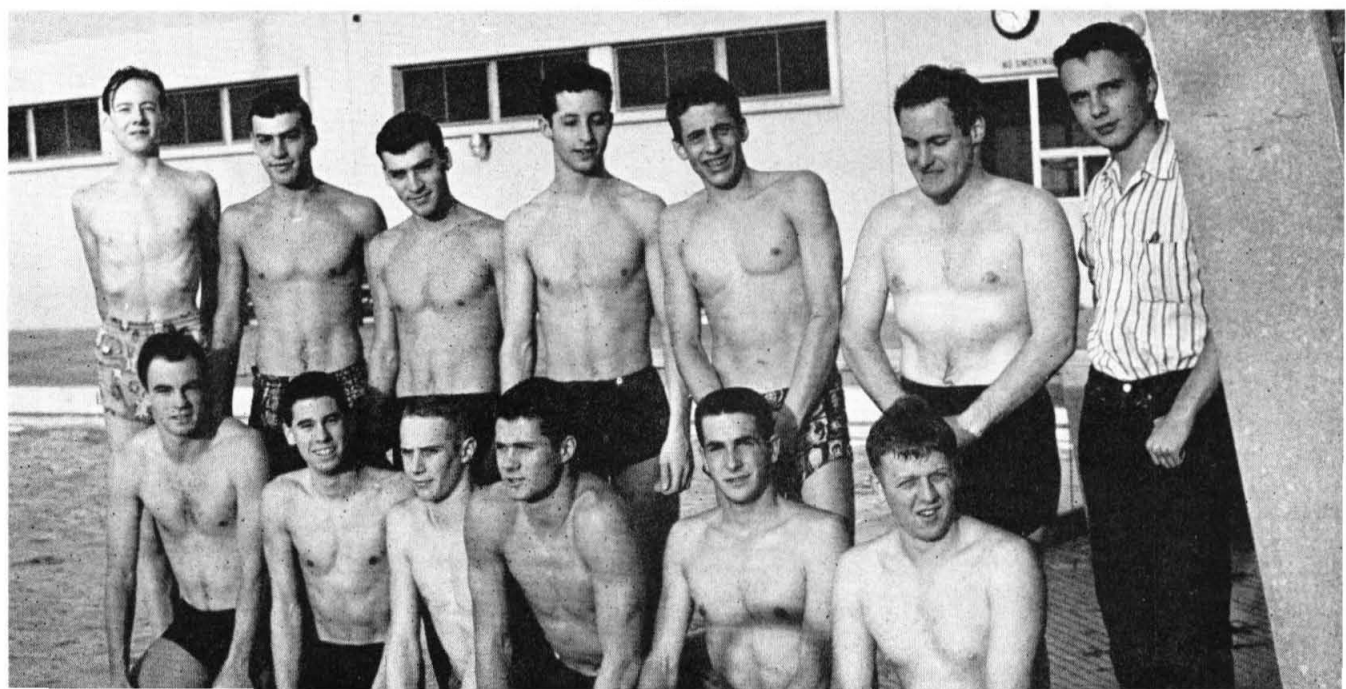
Dick Mittleman and Bob Blandford also managed consistent times around a minute, and with this strength, the relay team was turning in better times than the varsity. Owings, Blandford, and Mike Milder made up the medley relay team. Blandford also swam in the individual medley.

The men showed great promise for the future, and Tech has thereby taken another step toward establishing a tradition of strong swimming teams.

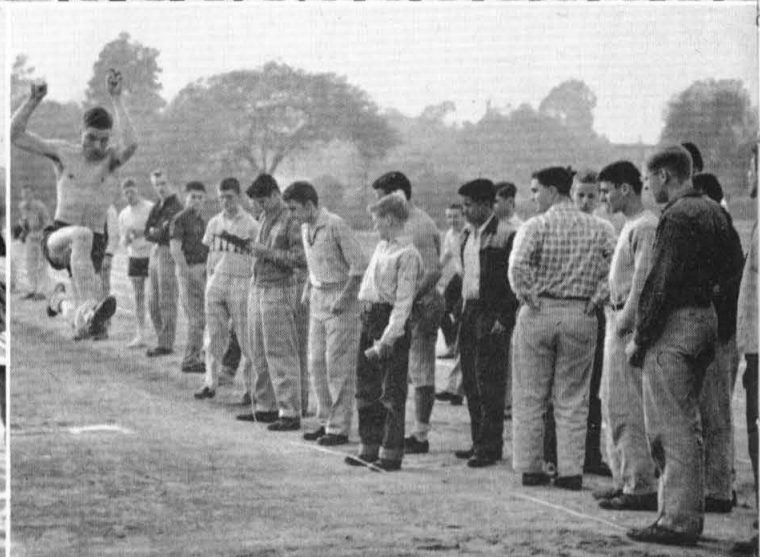
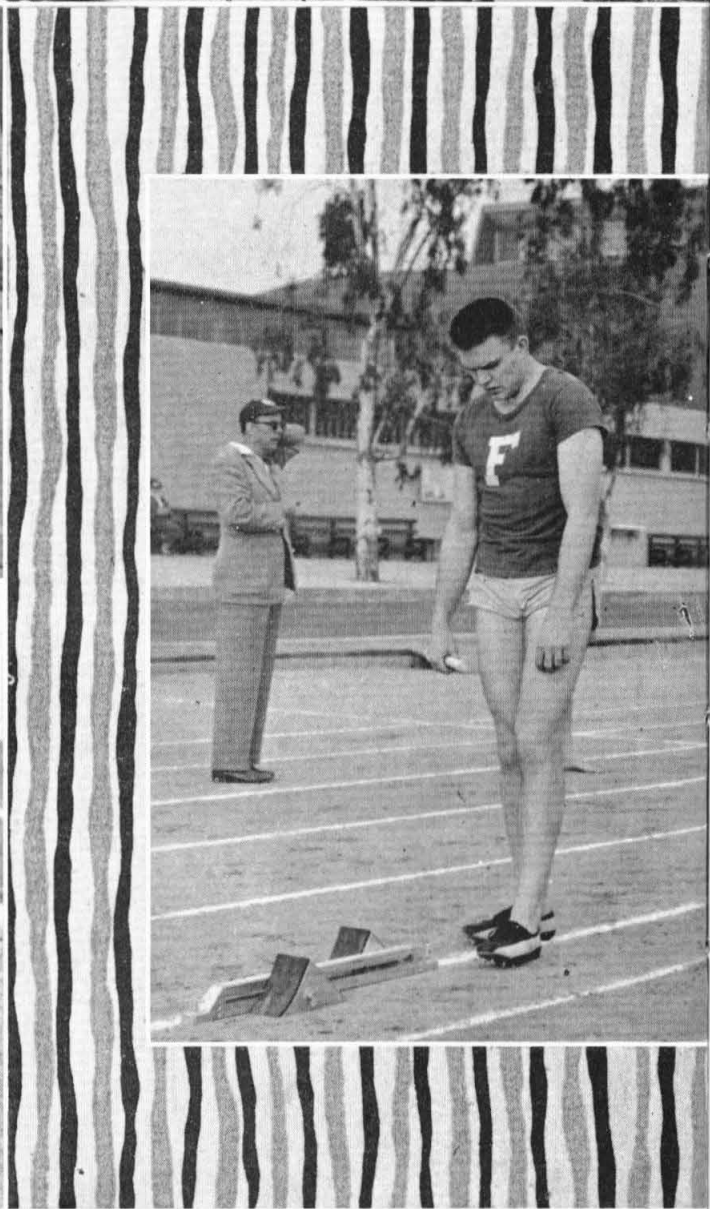
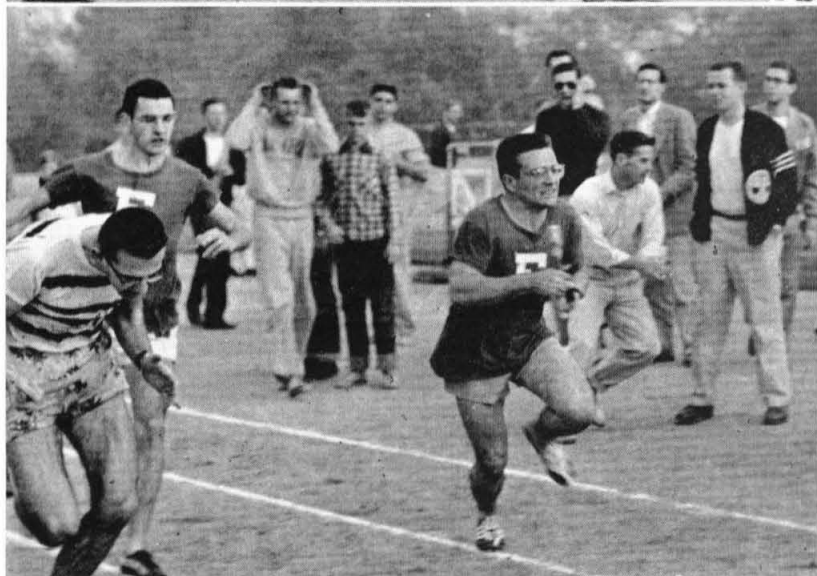
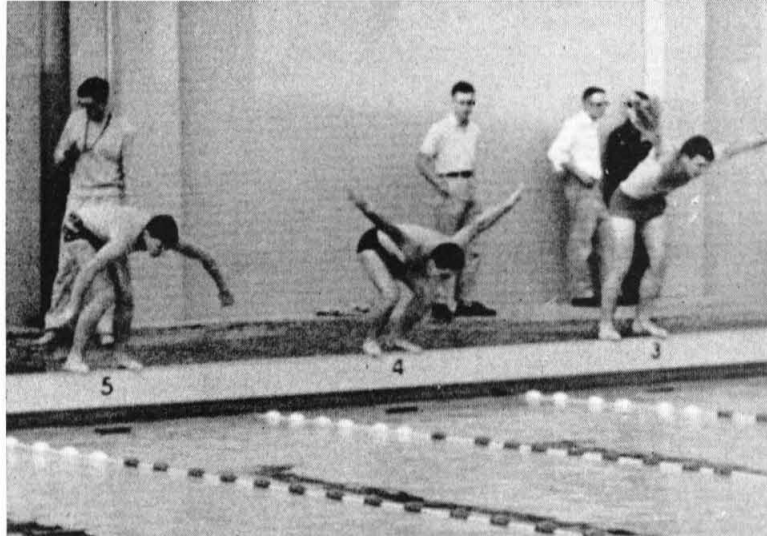


Bill Davis, Breast Stroker

FROSH  
 FIRST ROW, left to right: Bob Blandford, Don Owings, Ken Dinwiddie, Elmer Sanborn, Keith Brown, Dick Mittleman.  
 SECOND ROW: Gerhard Klose, Carl Maltz, Bob Maltz, Mike Milder, Norman Velinty, Dave Eberhardt, Dave Gilson (Mgr.).



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With autumn came softball to the campus, inaugurating the year of intramural athletics. Dabney House, in what was an omen of things to come, swept through the schedule undefeated behind the pitching of Harrison Schmitt.

Meanwhile Ricketts' Dan Wulff won the first two cross-country races, but Blacker's great depth of distance runners easily captured team honors. Dave Yount of Fleming moved from second place to first in the final race, which Wulff passed up in order to compete with the varsity. But both Ricketts and Fleming were short handed, and Dabney took second in team standings.

Interhouse basketball was played in the Scott Brown Gymnasium for the first time, and it proved to be the most exciting fall sport. The season was characterized by two-, three-, and five-point victory margins, with Dabney, Fleming, and Throop Club eventually finishing in a three-way tie. Herb Rauch and Jim Welsh sparked Fleming's forces, but the other top teams were led by freshmen. Jerry Just and Bill McClure were outstanding for Dabney, and Bob Lebovitz and Larry Kraus led the off-campus men.

Ricketts' Frank Cormia won 40 out of 48 games to take the honors in first singles in January's Interhouse Tennis Meet. Meanwhile Al Goldberg was putting on a brilliant performance in third singles to lead Blacker to the team victory. Goldberg won 44 games while losing only four. Throop and Dabney followed Blacker in that order with only one point separating each of the top three teams.

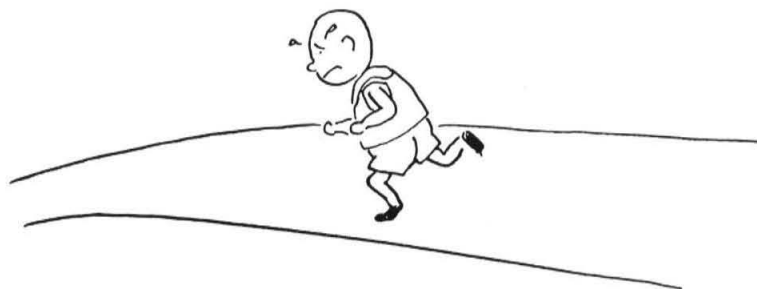
Dabney took its third championship of the year by edging Fleming by one point in track. Dabney's quartet of Arne Kalm, Ed Berry, Curt Schultz, and Wayne Kreger won the 880-yard relay to take the meet. Blacker's Dave Gregorich, Ricketts' Tony Leonard, and Fleming's Bob Norton smashed records in the 1320-yard run, the 660-yard run, and the pole vault, respectively. Top scorers in the meet were Ron Forbess, who won the 220 and 330-yard dashes and anchored the Ricketts relay team, and Fleming's Chuck Luke, with blue ribbons in the javelin and discus throws and third place in the shotput.

Fleming captured the Interhouse Swimming Meet in March with a victory in the four-man relay to edge out Ricketts and Blacker. Keith Brown overtook Doug Carmichael in the last lap to gain the triumph.

Going into the spring term Dabney held a strong lead in points toward the Interhouse Trophy. Fleming was expected to field powerful teams in both spring sports, touch football and volleyball, and a fairly close finish was expected. However, Dabney was in a position to clinch the 1955-1956 interhouse championship with a first place in touch football.

The Varsity Rating Trophy, which had been held by Fleming as long as anyone could remember, looked like it had a chance of moving to Ricketts. But it seemed more likely that the men of Fleming would retain the plaque for at least one more year.

Meanwhile Discobolus, Caltech's traditional challenge trophy, moved from house to house, spending most of its time in Blacker, Fleming, and Ricketts. For some unknown reason almost all of the contests were in softball, football, or tennis, and by the end of the second term Blacker had already won three Discobolus tennis matches as well as the Interhouse Tennis Meet.

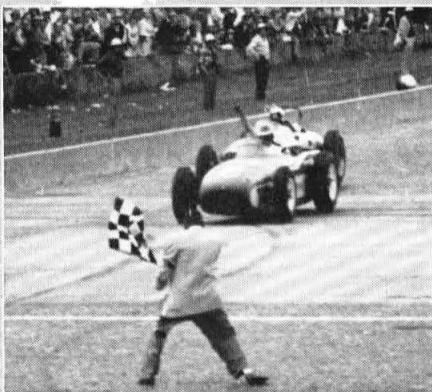


# TOPS 'EM ALL

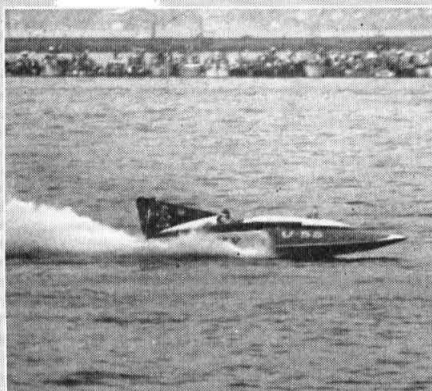
*In the Winner's Circle!*



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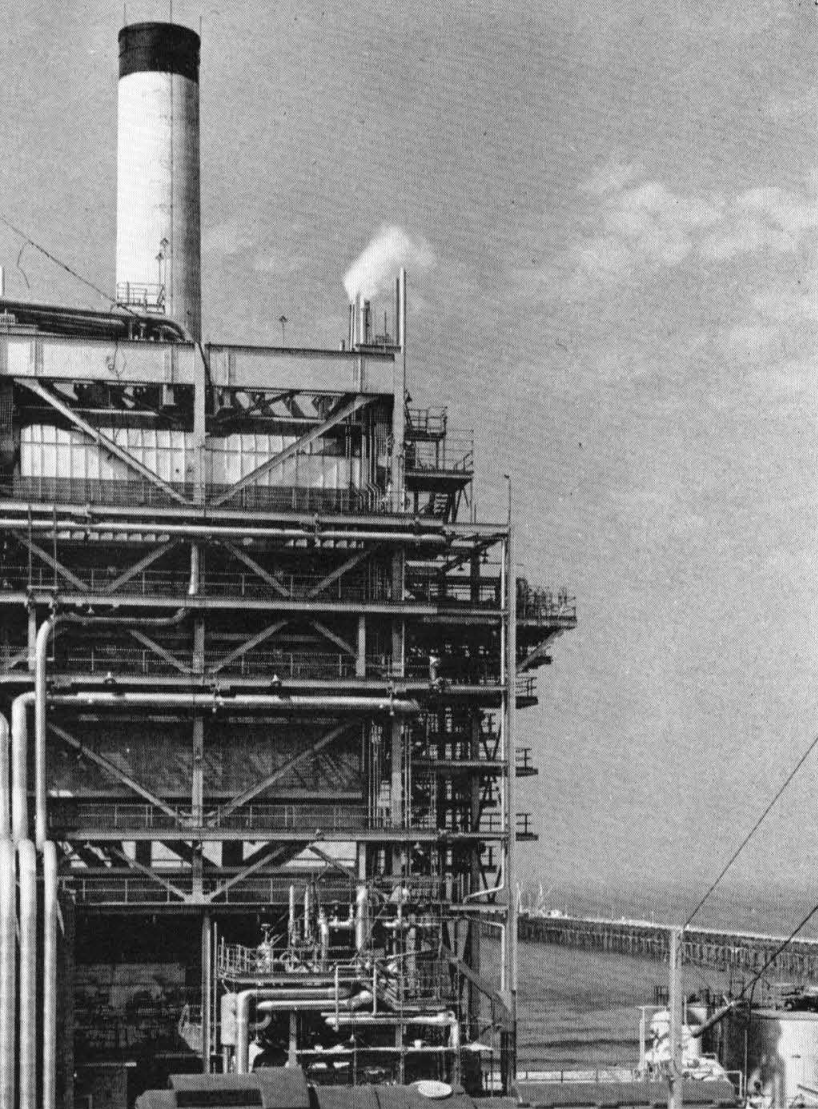
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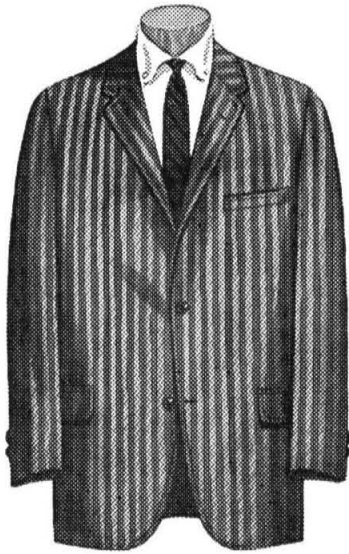
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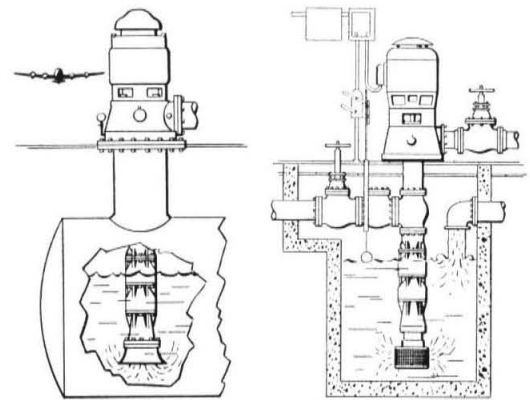
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### STABILITY

Gilfillan has added new engineers to its staff every year since the firm was established in 1912. Current openings are in no sense emergency, or temporary "big contract" jobs, but part of the continuing Gilfillan expansion program.

### DIVERSITY

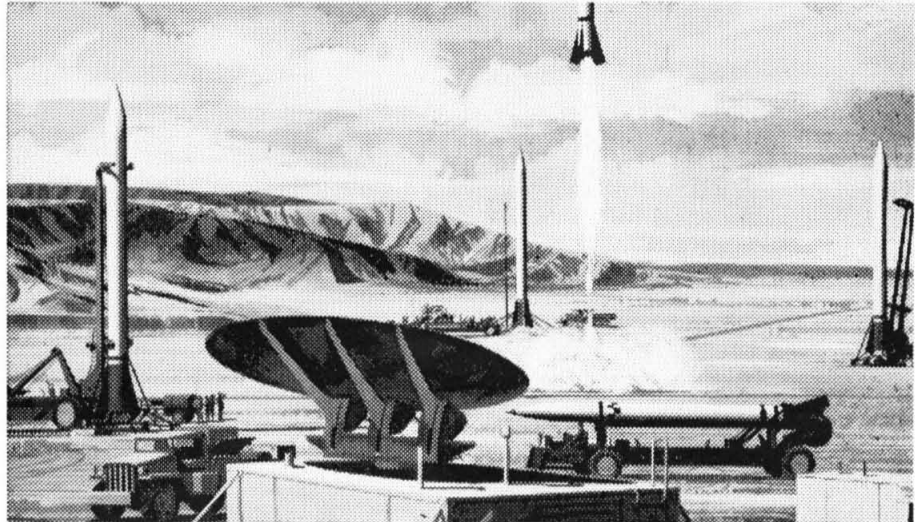
Gilfillan is best known as the pioneer of GCA radar and all its major improvements, including the Gilfillan GCA Quadraradar—yet GCA is only one facet of Gilfillan activities. The firm has been engaged as a prime supplier of Research, Development and Production of Military Electronics Systems since 1942, including Missile Guidance Systems, airborne and ground; Electronic Countermeasures; Navigational Radar (GCA and AGCA); and Electronic Radar Trainers.

### SIZE

Seven Gilfillan plants are dispersed throughout Southern California. Main engineering headquarters are in Los Angeles. The firm is large enough to handle all phases of research, design and production, yet not so large a man gets lost.

### PRIME CONTRACTS

Gilfillan holds prime contracts, many of them developmental, with the Air Force, Army Ordnance, Army Signal Corps., United States Navy, Royal Canadian Air Force, Royal Australian Air Force, South African Air Force, and the French Government.



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### SATISFACTION

Gilfillan engineers plan to stay with the firm permanently, although there are many opportunities for qualified men in this area. Engineers like Gilfillan for many reasons. For example, there is no "hierarchy" or rigid seniority system at Gilfillan. There is creative opportunity—a man with a sound idea is "given his head," plenty of team project cooperation and the satisfaction of following through. The Gilfillan philosophy is to help each man attain his own top ability: tuition is paid, for example, at leading universities and technical institutes, for the man who wants to increase his basic knowledge. These are a few of the reasons why outstanding engineers are building *lifetime* careers at Gilfillan.

### SALARIES

Basic starting salaries at Gilfillan are higher than overall industry standards (average \$100 a month higher even in this competitive area). This is because, at Gilfillan, the individual's capacity develops more rapidly than under rigid corporation training sys-

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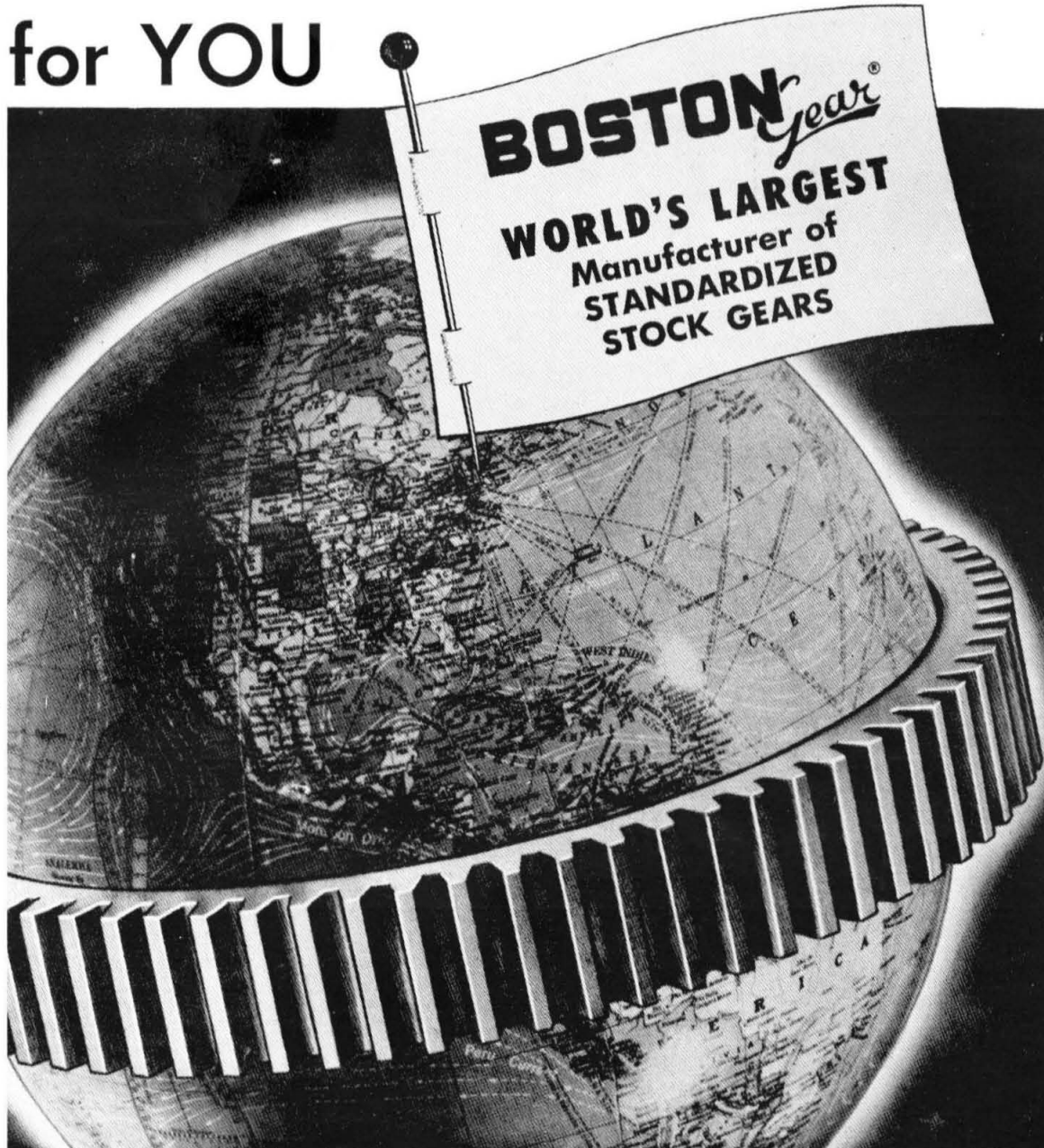
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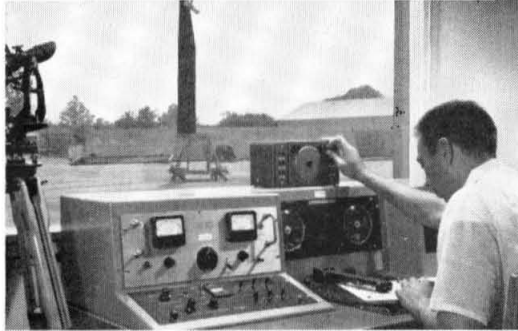
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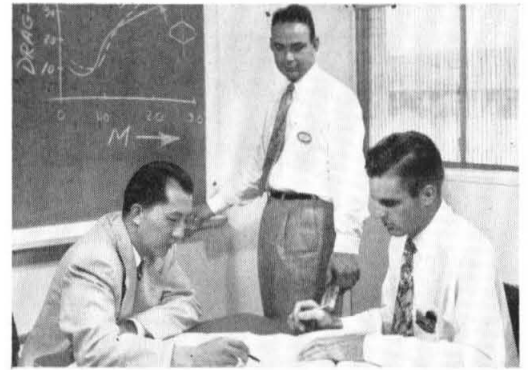
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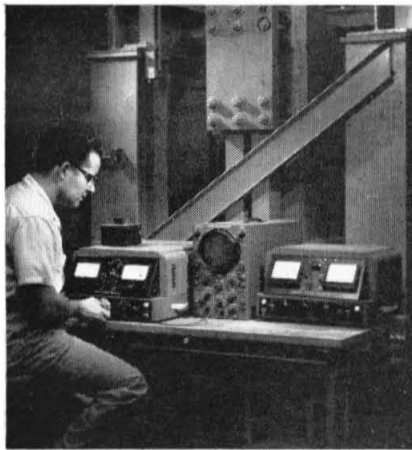
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Electronics Research Engineer Irving Alne records radiation antenna patterns on Lockheed's Radar Range. Twenty-two foot plastic tower in background minimizes ground reflections, approximates free space. Pattern integrator, high gain amplifier, square root amplifier and logarithmic amplifier shown in picture are of Lockheed design.



Jim Hong, Aerodynamics Division head, discusses results of high speed wind tunnel research on drag of straight and delta wing plan forms with Richard Heppel, Aerodynamics Department head (standing), and Aerodynamicist Ronald Richmond (seated right). In addition to its own tunnel, Lockheed is one of the principal shareholders in the Southern California Cooperative Wind Tunnel. It is now being modified for operation at supersonic Mach numbers.



Research Engineer Russell Lowe measures dynamic strain applied by Lockheed's 500,000 lb. Force Fatigue Machine on test specimen of integrally-stiffened Super Constellation skin. The Fatigue Machine gives Structures Department engineers a significant advantage in simulating effect of flight loads on a structure. Among other Lockheed structures facilities are the only shimmy tower in private industry and largest drop test tower in the nation.



C. H. Fish, design engineer assigned to Lockheed's Icing Research Tunnel, measures impingement limits of ice on C-130 wing section. The tunnel has a temperature range of  $-40^{\circ}\text{F.}$  to  $+150^{\circ}\text{F.}$  and maximum speed of more than 270 mph. It is the only icing research tunnel in private industry.

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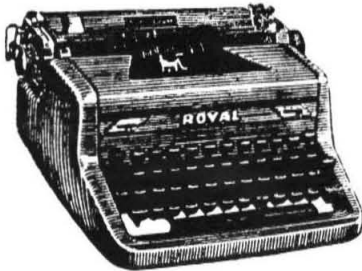
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The Ramo-Wooldridge Corporation was founded in September, 1953, to conduct research, development, and manufacturing operations in the broad fields of electronic systems and guided missiles. From the beginning, the principal company objective was to establish and maintain a high level of competence in major systems development and engineering.

Both because of the national need and the inclination and experience of the key people, the emphasis in The Ramo-Wooldridge Corporation is on the development of products containing a high content of scientific and engineering newness. Prominent examples are the Intercontinental Ballistic Missile and the Intermediate Range Ballistic Missile, Air Force programs for which we have overall systems engineering responsibility. Other examples are communications, fire control, and computer programs for the military, and automation

and operations research projects for business and industry.

All features of the organization and of the operational procedures of the company are designed to be as appropriate as possible to the special needs of the professional scientist and engineer. Because of the high degree of scientific and engineering effort that is required for the successful development of major systems, it is important that a company organized for this purpose should assign to technically trained people more dominant roles in the management and control of the business than is customary or necessary in most industrial organizations. In The Ramo-Wooldridge Corporation, scientific activities are always headed by scientists, who, when required, are provided with the administrative and business-type assistants needed to carry out their organizational responsibilities.

*The following paragraphs constitute a brief progress report on the current status of our growth and on the activities in which we are engaged.*

## TECHNICAL PERSONNEL

Our total employment is 1750, but such figures tell only a limited story. Personnel quality factors are most important in our kind of business. We believe we are doing well in this respect. Of the 110 Ph.D.'s, 145 M.S.'s and 205 B.S.'s or B.A.'s who today make up our professional scientific and engineering staff, a gratifyingly high percentage are men of broad experience and, occasionally, national reputation in their fields.

## FACILITIES

Our Los Angeles facilities, located in the International Airport area, consist of eight buildings totalling 360,000 square feet of modern research and development space. By the end of 1956, an additional 220,000 square feet of offices and laboratories will be completed or nearing completion to bring the total to 580,000 square feet, including the first two buildings of our new 40-acre Research and Development Center.

## MANUFACTURING

We are somewhat ahead of the usual systems development schedule, with some of our projects having arrived at the field and flight-test stages. Arrangements are currently being completed to provide a manufacturing plant for quantity production of electronic systems. Construction of the initial unit of 172,000 square feet is expected to start in May or June of this year, located on a 640-acre site which has been purchased in suburban Denver, Colorado.

## FINANCING

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## FIELDS OF ACTIVITY

*The technical areas available to a company specializing in advanced electronic systems and guided missiles work are numerous, and no attempt has been made to impose narrow limits on the areas considered suitable for future planning. Therefore the following list of fields simply outlines the kind of work that is currently under way, and that is expected to continue and expand during the next several years.*

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*For a copy of our booklet, "An Introduction to The Ramo-Wooldridge Corporation," or other additional information, write to Mr. D. L. Pyke,*

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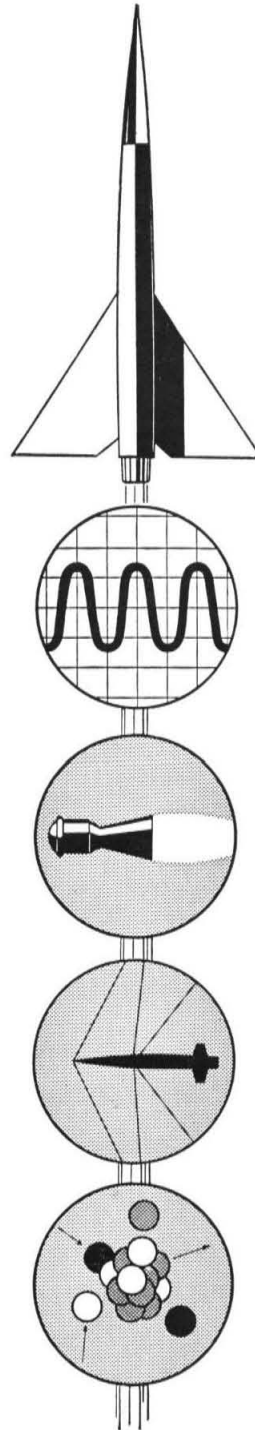
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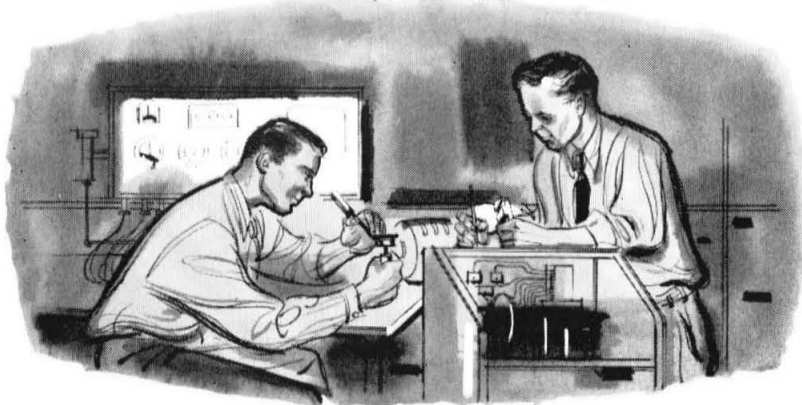
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