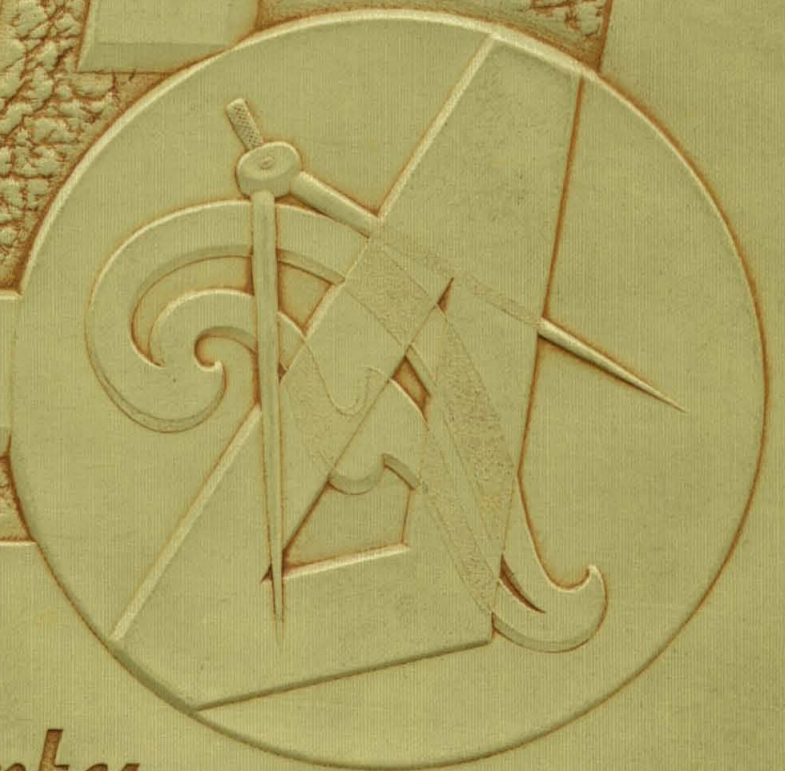


THE BIG

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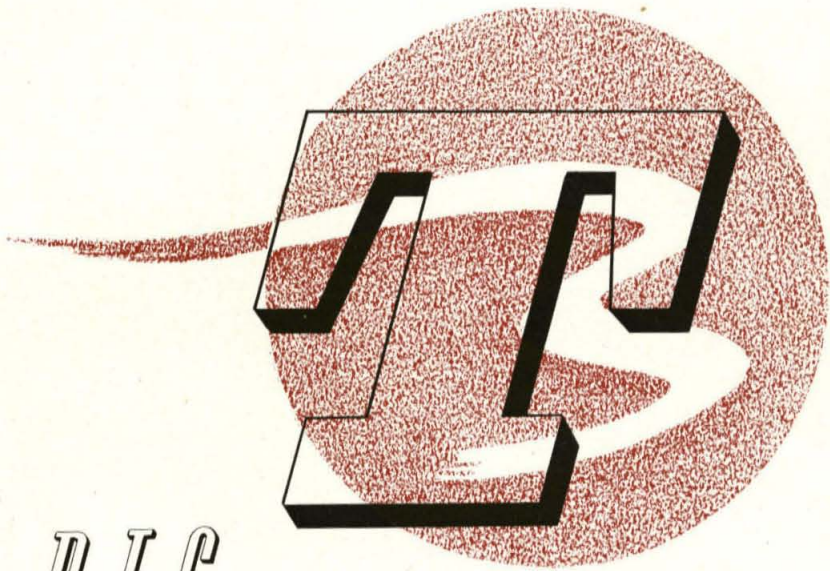


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HUMANITIES LIBRARY







THE BIG

THE 1940



BIG

EDITORS

WILLIAM A. SPOONER

BERNARD M. TOBIN

BUSINESS MANAGER

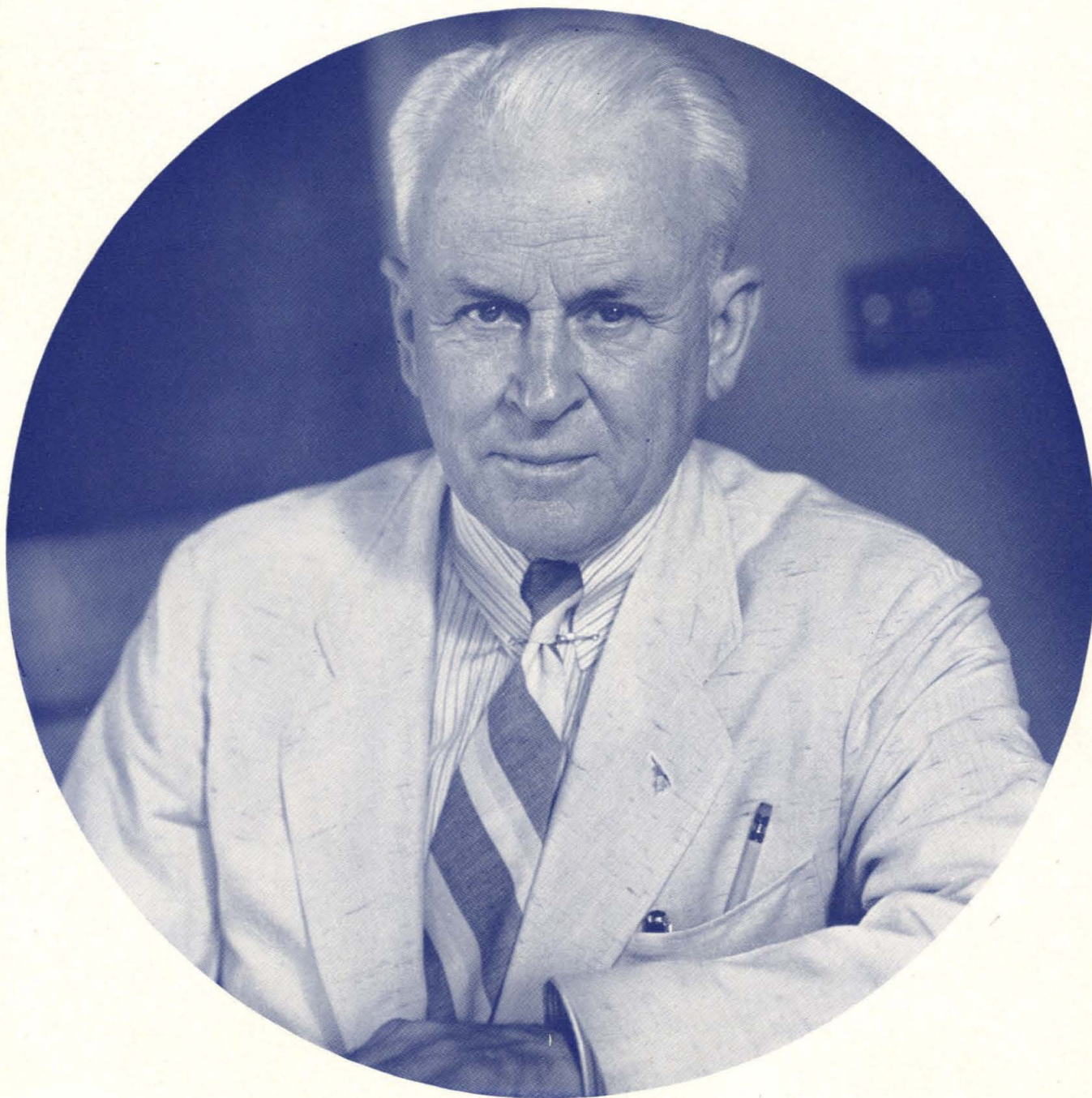
LAWRENCE C. WIDDOES

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ASSOCIATED STUDENT BODY
CALIFORNIA INSTITUTE OF
TECHNOLOGY
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LIFE WORK



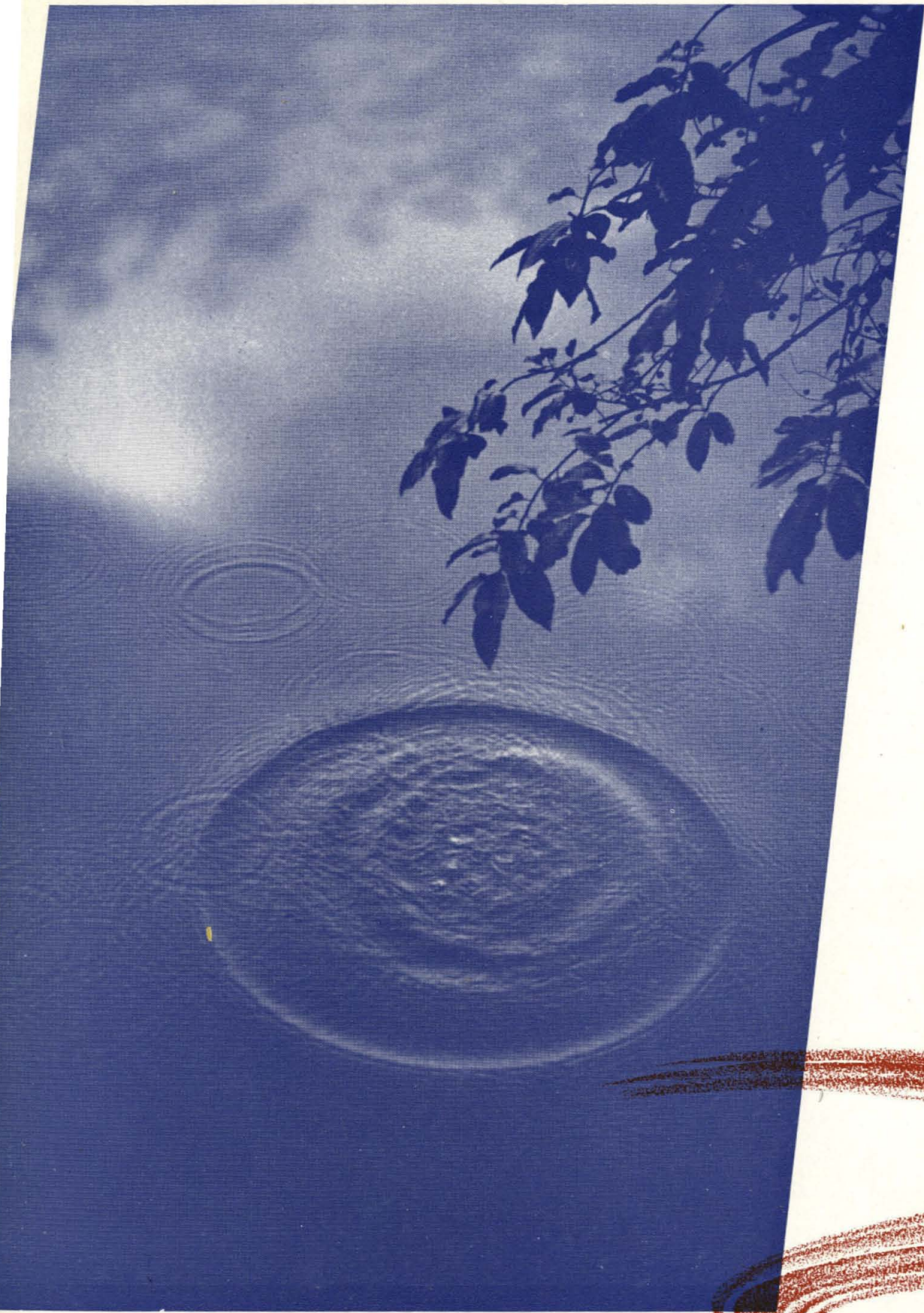


This book we dedicate to Dr. Robert Andrews Millikan and to those courageous men who, with him, have dedicated their lives to the building of the Institute—a monument to their unselfish and unfailing service. May these men realize the eternal satisfaction of knowing that without their life-work the Institute we portray in this volume might yet be but an empty dream.

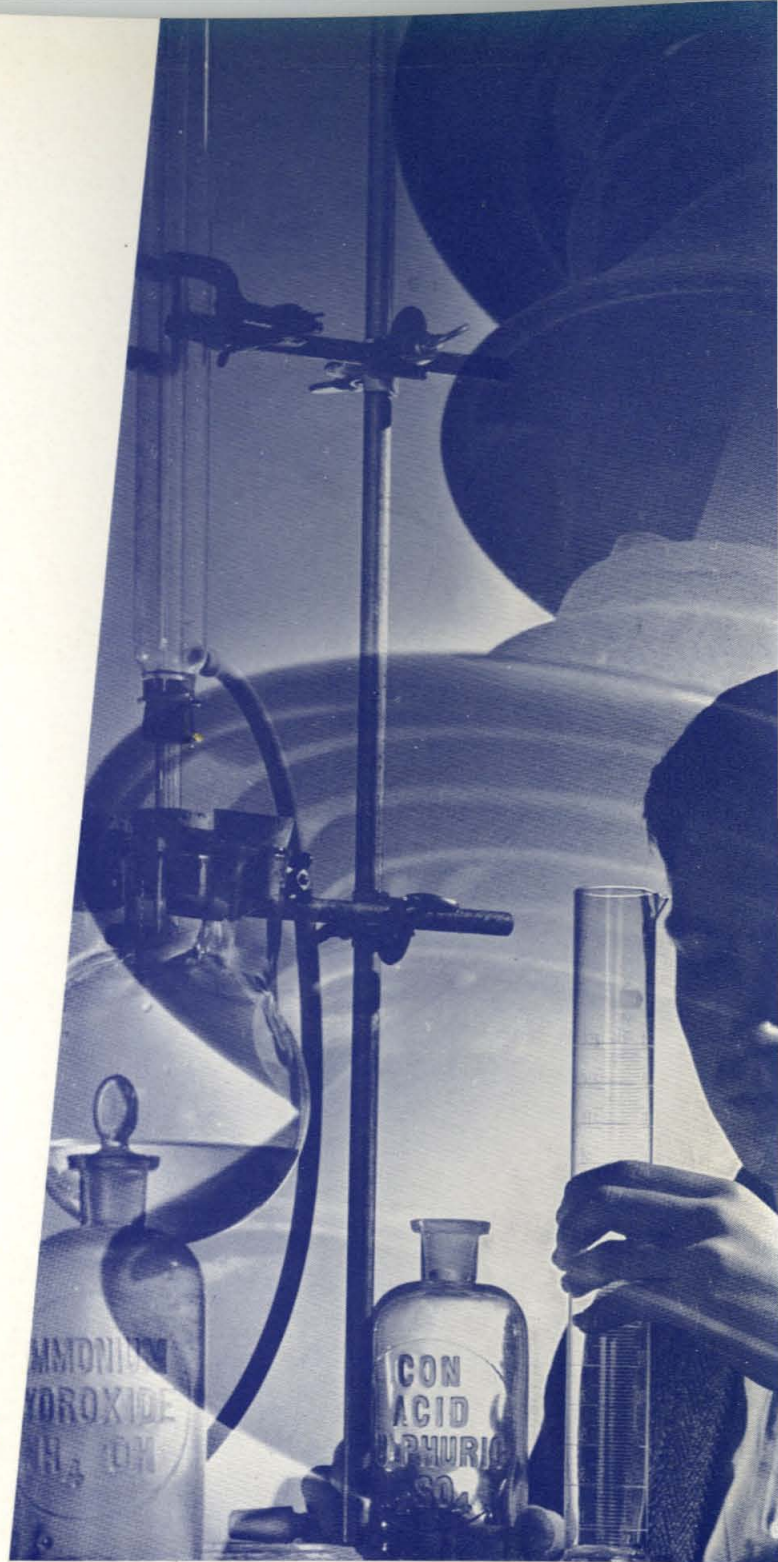
IN MEMORIAM

PAUL HENRY BECKER

DR. LOUIS D. RICKETTS



L I V E S



To live is to learn; to learn is to serve. With this belief embodied in every act the California Institute of Technology, as we know it today, enters its third decade. This 1940 Big T is a record of undergraduate lives enriched by the teachings of men who have learned to exemplify in themselves the best which their own ideals can create.



C O N T E N T S

ACADEMIC LIFE
ADMINISTRATION
DEPARTMENTS

CLASS LIFE
SENIORS
LOWER CLASSES

SOCIAL LIFE
STUDENT ADMINISTRATION
HOUSES
PUBLICATIONS
ORGANIZATIONS

SPORTS LIFE
FOOTBALL
BASKETBALL
TRACK
BASEBALL
TENNIS
MINOR SPORTS

HERE

The Spirit of Electricity hovers over Hi-Volts.





The broad, shady expanse of the lawn between the Athenaeum and the Student Houses suggests the peace and quiet of a Sunday afternoon.

A N D T H E R E

THROUGH

The flag flutters lazily in the breeze as an afternoon calm envelops Throop.



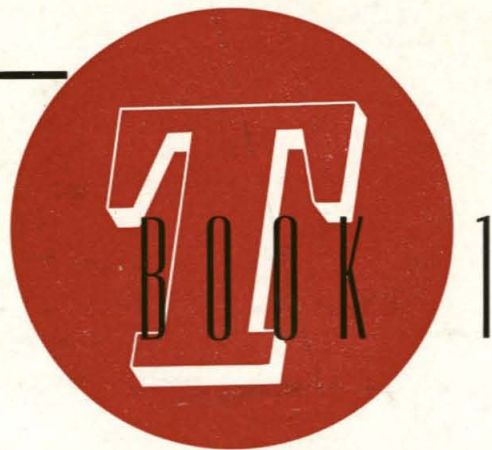


Hurrying from classes, Techmen pay no heed to the beautiful clouds which accentuate the graceful lines of Kerckhoff.

T H E L E N S

Students, through with classes,
leave the halls of Geology and
Biology.





ACA





ACADEMIC LIFE

Knowledge . . . Foundation of the Institute
. . . Goal of the seekers for truth . . . Life at
Tech revolves around the laboratory . . . the
drafting board . . . the classroom . . . All
human effort is subordinated to Academic
Life.

A D M I N I S T R A T O R S

California Tech is fortunate in possessing excellent administrative officers. The details of finance, of records, and of advice are all handled smoothly and efficiently by a fine group of men.

Col. Frederick W. Hinrichs Jr. is Dean of Upperclassmen. Dean Hinrichs is a West Point graduate and as such possesses an admirable military bearing. He is both prompt and complete in his manner of dealing with the difficulties of student life. Anyone who has been to the Dean for help will testify that he spares no trouble to be of sincere help.

Dr. Ray Edward Untereiner is Dean of Freshman. Dean Untereiner considers that it is his task to solve each problem as it arises before its consequences become serious. He brings his legal training to bear upon the knotty problems of the freshmen; and with his cheery smile usually sends the erring frosh on their way properly directed into the right channels.

The important position of Registrar is filled by Mr. Philip S. Fogg. His office is the home of blue slips and transcripts of records. Mr. Fogg was trained for his position at Harvard's Graduate School of Business Administration.

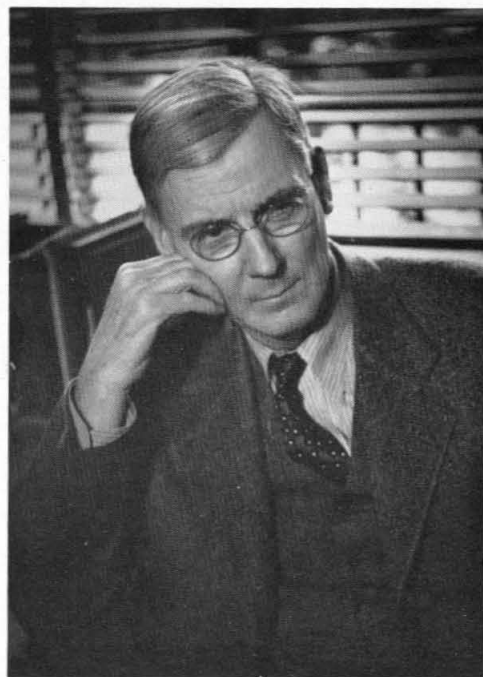
Mr. Edward Cecil Barrett, at Caltech since 1911, controls the school's budget. As Comptroller he has been able to keep Tech in the black in spite of hard times.



Registrar P. S. Fogg



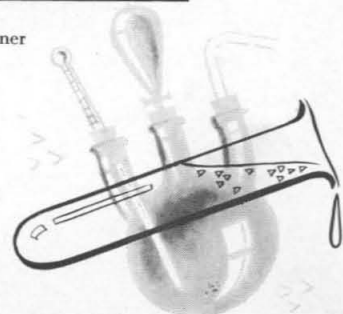
Comptroller E. C. Barrett



Dean Hinrichs



Dean Untereiner



S C I E N T I S T S

With one-third of its staff starred by the "American Men of Science," the Institute has a complement of scientists which marks it as the modern interpretation of Plato's Academy.

Having two Nobel prize winners on its staff, the Physics department, headed by Robert A. Millikan, is noted throughout the world for its successful investigations in nuclear and atomic physics, radiation, and cosmic rays. Dr. Max Mason and the 200 inch telescope keep the Institute constantly in the public eye.

Under Linus Pauling the Chemistry department has made great advances, especially in research along the lines of structural and biological chemistry financed by the Rockefeller Foundation.

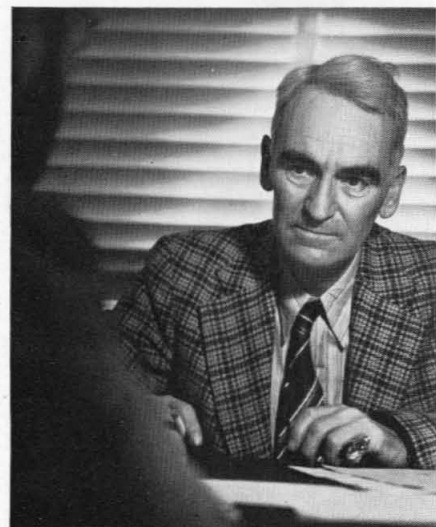
Biology has been focussed on genetics, in a concerted effort led by Dr. Thomas Hunt Morgan to forward this study as a quantitative science.

Working in a field which is becoming more basic to all other sciences, Dr. E. T. Bell has made the Mathematics department outstanding for its activity in new realms.

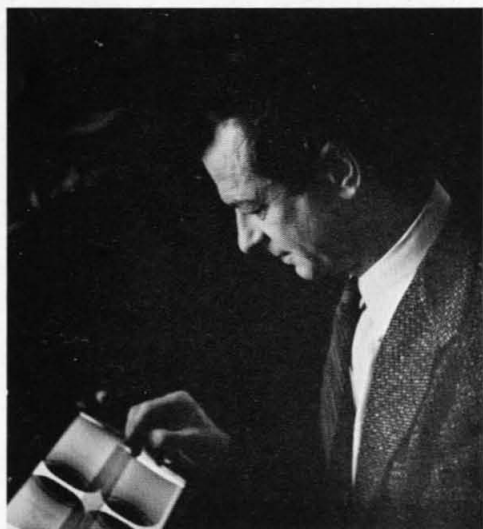
Seismology, the study of earthquakes and the earth's interior, has made the Geology department, headed by Dr. John P. Buwalda, world famous in recent years.



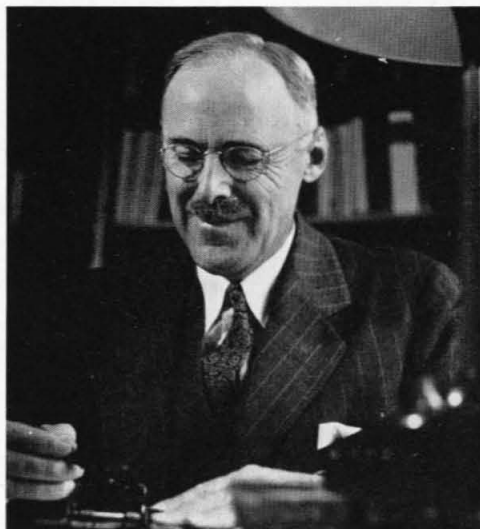
Richard Tolman



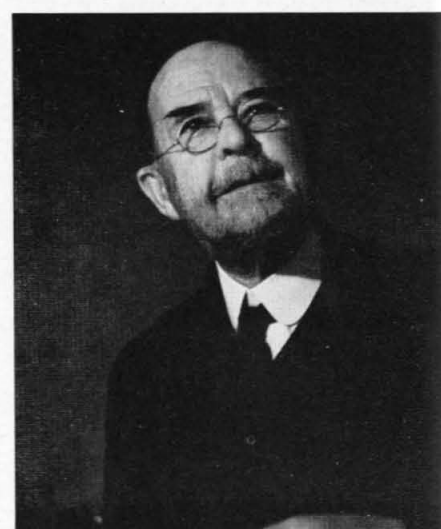
Eric Bell



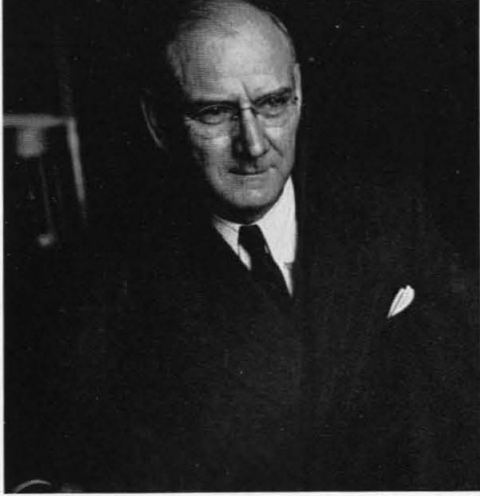
Linus Pauling



John P. Buwalda



Thomas H. Morgan



Franklin Thomas



Royal W. Sorensen



Robert Daugherty

Ten years in the history of the Institute may encompass the entire life of a department, or it may be only the latter portion of a long existence.

Founded in 1910, with the advent of Professor Sorensen, the Electrical Engineering division falls in the latter classification. Its role in the development of high-potential power transmission has been outstanding, while research in electronics has been ever advancing.

Civil Engineering, under the leadership of Professor Franklin Thomas, holds a significant record in public service, particularly in the fields of soil mechanics and earthquake prevention.

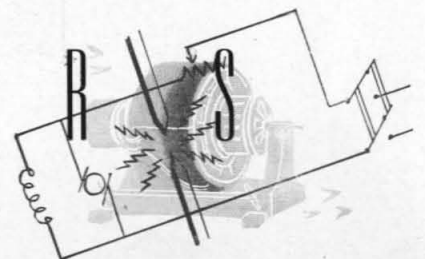
Economic and social service are perpetual aims of the Mechanical and Hydraulics Engineering division which is instrumental in the saving of millions of dollars in public projects. The Metallurgical division is a pioneer in alloys.

Head of the hydraulics department is Professor Robert L. Daugherty. His research in developing various hydraulic projects and his textbook on the same subject have been valuable contributions.

As the most productive aeronautical laboratory in the world, the Aeronautics department under Theodore von Karman is the youngest and fastest growing of this outstanding array of studies encompassed by the Engineering department.

The Guggenheim Laboratory of Aeronautics was erected in 1928. It was to supervise work here and at the Guggenheim Airship Institute at Akron, Ohio, that Professor von Karman left Europe.

E N G I N E E R



H U M A N I S T S

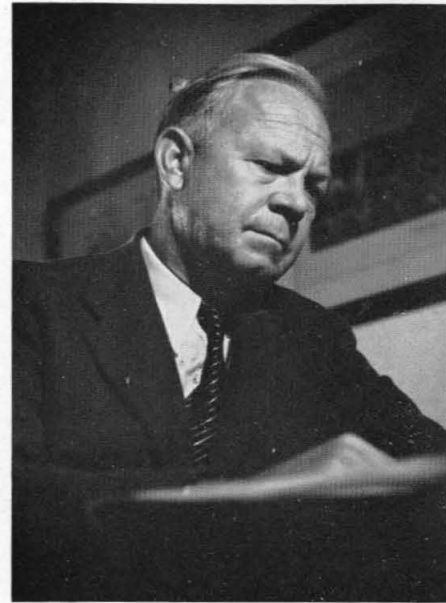
Outstanding at Caltech is the Humanities department, for here this department, in contrast to most other technical schools, has sufficient faculty and student time to produce a well rounded cultural, linguistic and economic education.

The Humanities courses offered vary widely. Literature is extensively represented, for English literature as well as novel and short story work is required; and electives vary from Biblical to contemporary literature. Supplementary are courses in philosophy. Professor Clinton Judy, besides heading the department, directs the field of literature.

History is under the direction of Dr. William B. Munro and has been built up into a unit stressing world and contemporary history. Economics has grown in the last decade. Standard courses in elementary economics and business have long been given together with semi-graduate courses in business management. During the past year a new study of Industrial Relations has been established.

Dr. John R. Macarthur has for many years directed language instruction, and, while teaching largely the technical reading of German and French, he occasionally branches into foreign literatures and beginning Greek.

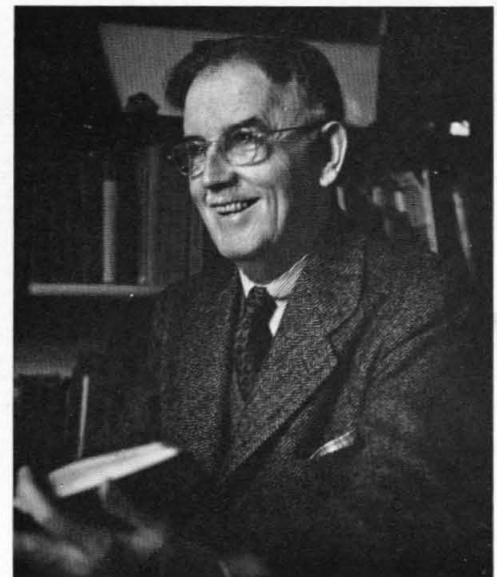
In addition, the Humanities department greatly aids school life by raising the standard of debating and journalism through faculty help, by fostering the building up of the Caltech Musicale, by bringing Dr. Ross' popular psychology lectures to the Institute, and by its sponsorship of exhibits of general interest.



Clinton K. Judy



William B. Munro



John R. Macarthur

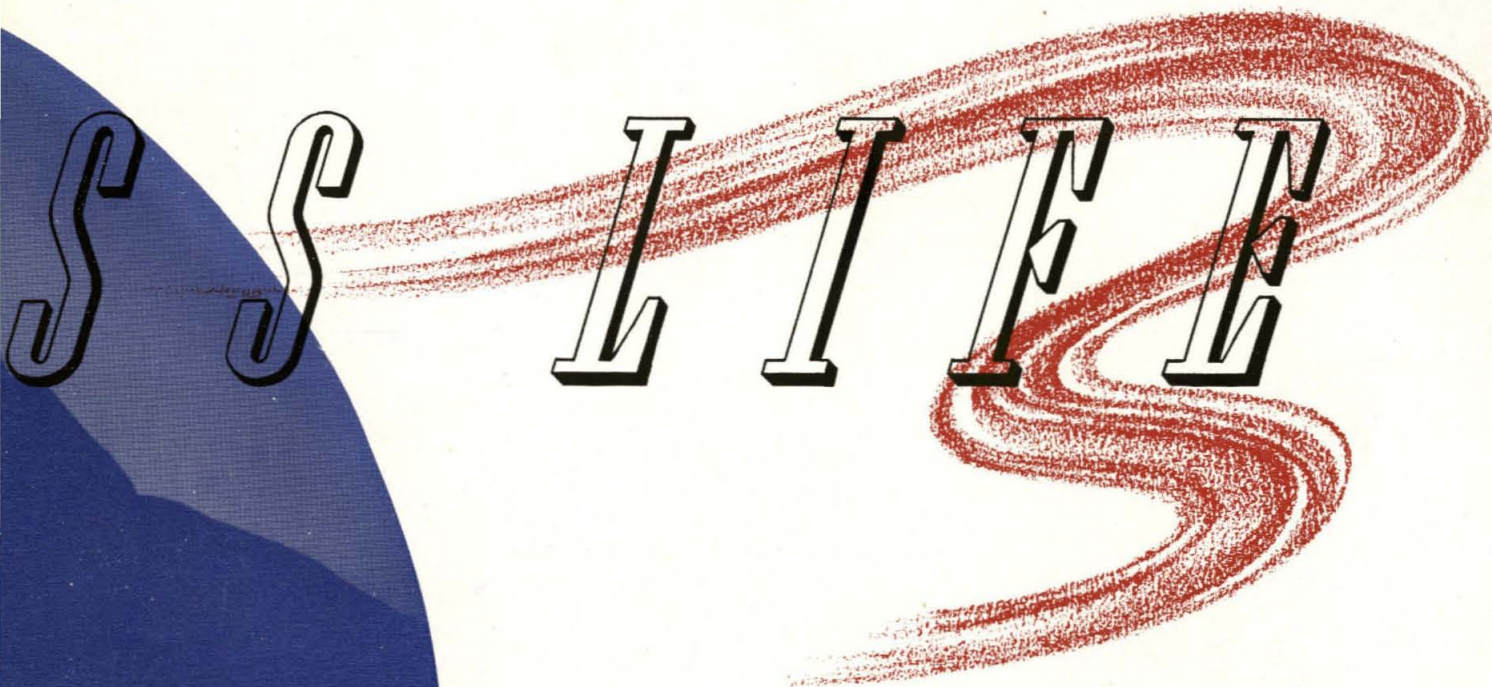


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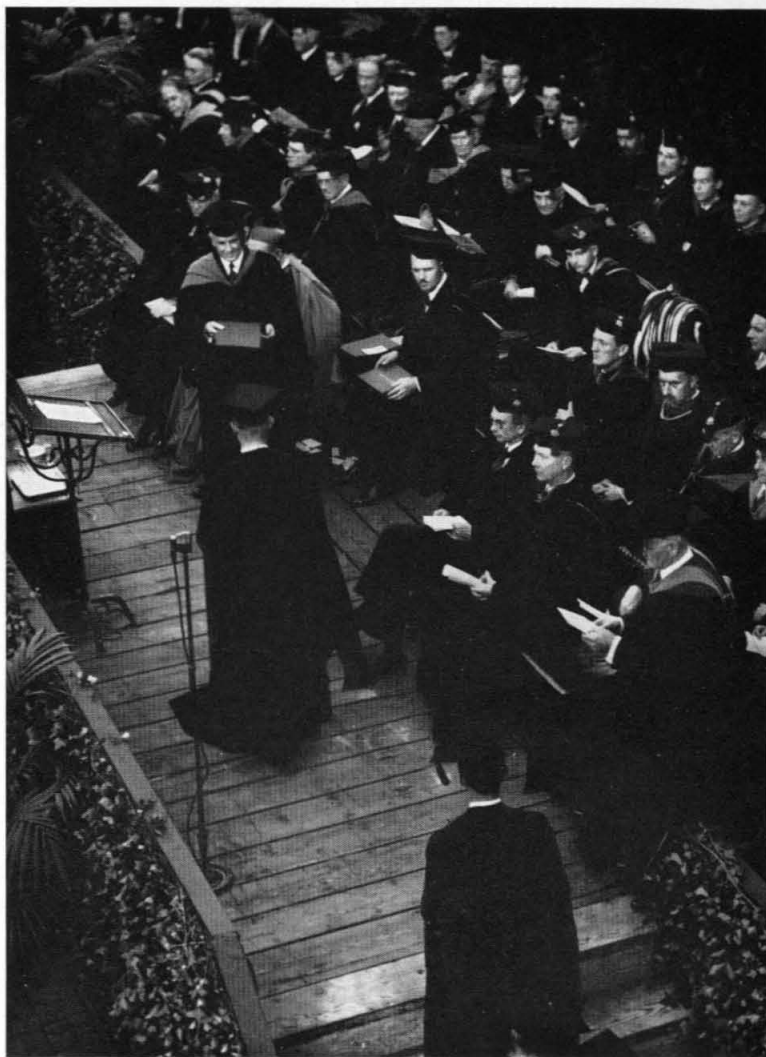
CLA





S.S.L.I.F.E.

Hierarchy of the student body . . . Stepping
stones on the road of life . . . Focal center for
loyalty, spirit, cooperation . . . Incentive for
dances, brawls, the Rodeo . . . All Tech lives
under the sway of Class Life.



S E N I O R S

S E N I O R

In September, 1936, a bewildered group of freshmen entered the portals of the Institute and took up a new life. Destined to be an experimental class, both because of its increased numbers and because its graduation marked the end of another decade of Caltech history; these men of '40 plunged with eagerness into the whirl of Caltech life. An era of disillusion was the rodeo—last of the old traditional bouts employing the old drag-em-out tactics of mass kidnapping and interclass struggle. Continuing the following year without need of employing such unsubtle means, the classmen easily won their victory, danced, enjoyed themselves, studied, and evolved into juniors. Entering with zeal into politics, sports, and activities, the class of '40 were good juniors and better seniors—attempting to uphold the traditions which are the heritage of the graduation class.

Ending their Senior year in a burst of activity the class of '40 enjoyed a garden party, the annual prom, and the traditional social events of graduation.

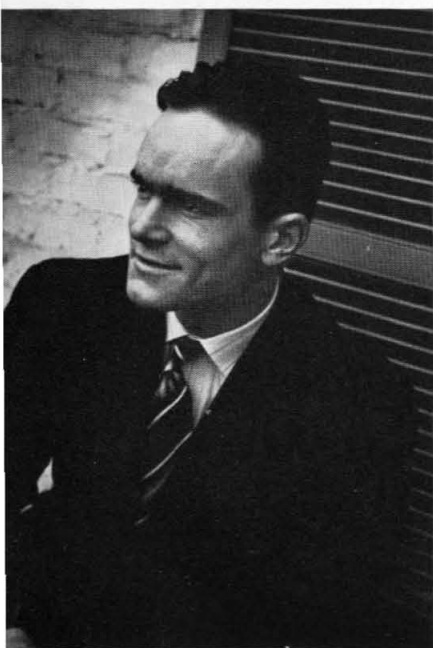
Senior pilots for this last year were Keith Anderson, president; Jim Kemp, vice-president; Gil Van Dyke, secretary; and Harold Mickley, treasurer.



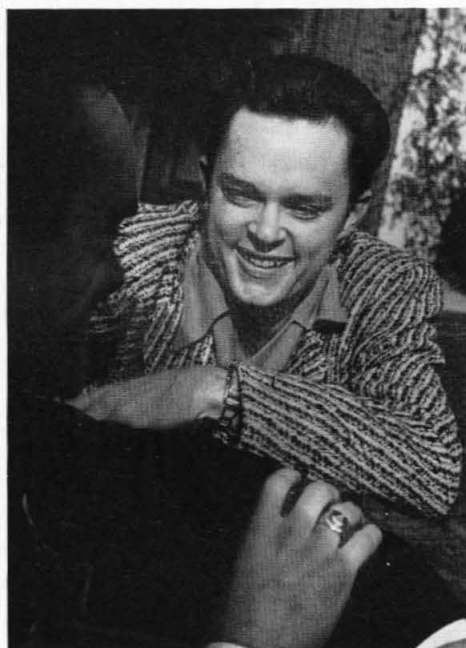
Keith Anderson, president



Jim Kemp, vice-president



Gil Van Dyke, secretary



Harold Mickley, treasurer

C L A S S S



ROBERT ADAMS
Bob came west from Arcadia to become a mechanical engineer. . . Member of the A.S.M.E. . . Prominent in all Throop Club activities. . . Played inter-house football for the Club for two years. . . Found inspiration and enjoyment in being an active member of the Y.M.C.A. Cabinet during his fourth year.

ROBERT W. ALCOCK
President of Dabney House. . . Vice-president of A.S.M.E. . . Member of Photo Club. . . Member of Dabney Hunt Club. . . Ardent ski enthusiast. . . Came from Iowa City to study Mechanical Engineering. . . But finds time to be one of Dabney's social lights, trekking to Scripps with amazing regularity.



KEITH E. ANDERSON
Senior class president. . . Fleming House president. . . Press Club president. . . Editor of Little T and California Tech. . . Three Honor Keys. . . Member of Beavers and Varsity Club. . . Track Captain. . . Publicity Manager. . . Keith's been them all. . . Finds his geology field trips a wonderful place to catch up on his sleep.

GEORGE HOWARD ARVIN
Transferring from Panama Canal Zone College, George has been active in the Musicales. . . Enthusiastic ping-pong player. . . Member Dabney billiard team. . . Press photographer for '38 and '39 Exhibit Day. . . Interested in photography and member of Photography Club. . . Left the wilds of Long Beach to study Applied Physics at Tech.

HOWARD BALLER
Came all the way from Newark, New Jersey to become a devotee of electrical engineering. . . Member of the A.I.E.E. . . Enjoys writing. . . Found outlet for his enthusiasm by writing for the California Tech. . . Worked into the managing end during second term. . . Worked on the Big T staff.

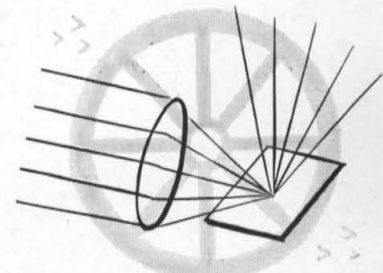
GEORGE CLAIR BARBER
Active in the Y.M.C.A. . . This year's Vice-president. . . Last year's secretary. . . Assistant yell leader in frosh and sophomore years. . . Social Editor of California Tech. . . Tyrannical pledge-master of Throop Club. . . Interhouse football. . . Finds relaxation from studies aeronautical by fancy piano playing, sweet and swing.

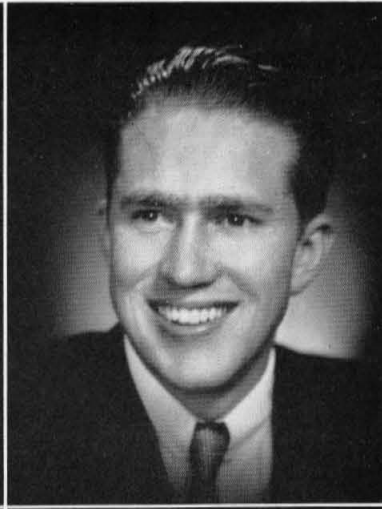
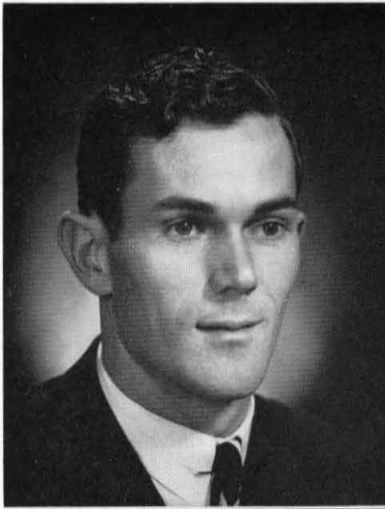


ERWIN BAUMGARTEN
Known as a Throop Club socialite. . . Treasurer of Throop Club. . . Honor Key. . . May be found at almost any hour deep in a test tube. . . Vice-president of the Chem Club. . . Member of Tau Beta Pi. . . California Tech staff. . . Big T staff. . . Two years cross-country. . . Three years track. . . Found exercise in playing scrub football in his senior year.

DWIGHT BENNETT
Dwight has been one of the most active of the Ricketts seniors. . . Dances. . . Interhouse football. . . Always willing to help with decorations. . . Three years service on the Stage Crew for the ribald Tech plays. . . His youthful experience in the building of model airplanes made him forsake Tulsa to take up Aeronautical Engineering at Tech.

ROBERT BERLOT
Interested in music. . . Left Los Angeles to take the Physics course. . . Arises at the most unimaginable hours in the morning to play tennis. . . Plays a seasonable game of chess. . . Employs psychic overbid system in playing a dazzling game of bridge. . . Known as "Booby" to intimates.





CYD BIDDISON

President of Beavers . . . President of junior class . . . President of Varsity Club . . . Three Honor Keys . . . First Representative-at-Large while a junior . . . Mainstay of football team for three years . . . Member of the A.S.C.E. . . Active in the Y.M.C.A. . . Helped organize the '59 frosh camp . . . One of Fleming's most distinguished seniors.

JOHN S. BILLHEIMER

One of the senior chemists, Johnny early began his career by doing research for Sophomore Nemesis Swift . . . Member of the Chem Club . . . Active in the social life of Throop Club . . . Frosh debate . . . A Pasadena hometown boy who is making good . . . Retreats to his cabin in the mountains for relaxation from chemistry.



ROSWELL J. BLACKINTON

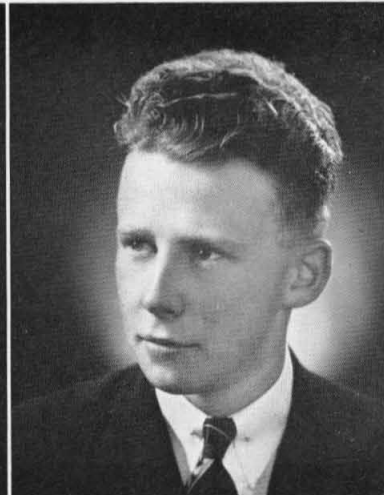
An applied chemist from Bell, California, Blackinton has been a part-time student since 1954 . . . Has performed what approaches the impossible by holding a full-time job while attending Tech . . . From 1954 to 1957 was a chemist for Cinecolor, Inc. . . Has been a chemist for Western States Lacquer Co. since 1957.

ALEXANDER F. BREWER

President of the now blossoming Musicale . . . Auditor of the California Tech . . . Honor Key . . . Member of the A.I. E.E. . . President of the Dabney Hunt Club . . . Sub-chairman for the '59 Exhibit Day in the Physics Dept. . . Member of 1958 Publicity Committee . . . Plays ping-pong and pool like an expert . . . Interested in good music, radio, and tennis.

ROBERT C. BRUMFIELD

Originator of the "Box for Self Defense" movement at Tech . . . Boxing for four years . . . Boxing instructor for three years . . . Member of the A. S. M. E. Throop activity man . . . Comes from Los Angeles . . . Hits his studies like an opposing boxer, and smashed into Tau Beta Pi . . . Relaxes while hunting or fishing.



JOHN C. CAREY

An electrical engineer from Hollywood . . . Derived practical experience in his field by working as electrician for the Tech plays . . . Member of the Drama Club . . . Secretary-treasurer of the A.I. E.E. . . Two years swimming . . . One year water polo . . . Interested in music . . . Known to fellow Blackerites as "Choo-choo".

DONALD B. CARSON

Don comes from Pasadena . . . Studying electrical engineering . . . Member of the A.I.E.E. . . Worked for one year as a bus driver . . . President of the Epworth League . . . Interested in church work . . . Likes the fairer sex . . . and brings them around to Throop Club dances . . . Enjoys hiking in the mountains.

1 9 4 0

LEO BREWER

One of Tech's truly enthusiastic chemists . . . Four years cross country . . . Frosh numeral and varsity letter . . . Active in interhouse cross country and track . . . Reporter for California Tech . . . Former Assistant Sports Editor . . . Likes good music . . . Travels to Berkeley next year on a fellowship in chemistry . . . One of the senior members of Tau Beta Pi,



FREDERIC M. BROSE

Active member of the Musicales . . . Member of the Dabney Hunt Club . . . Frosh numeral in baseball . . . Finds his height an asset in snagging the high ones . . . One year interhouse secretary . . . Zealous worker on Exhibit Day for two years . . . Dabney House librarian . . . Good natured . . . An M.E. from Los Angeles.



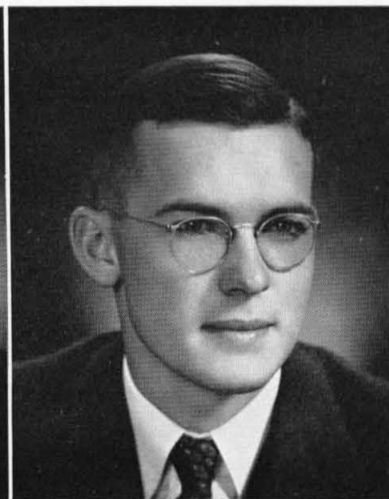
REYNOLDS "TEX" BROWN

No one would miss "Tex's" home state, after hearing his drawl, but you might not guess that he comes from Colorado City, Texas . . . Assertedly an applied chemist, he finds geology field trips a welcome addition to his curriculum . . . Plans working with an oil company after graduation . . . Favorite pastime is hunting or fishing "back in Texas".



WILLIAM E. BROWN

Recording secretary for Tau Beta Pi . . . Member of Throop Club . . . A long-suffering worker for the Exhibit Day for four years . . . Graduates in Applied Chemistry . . . Treasurer of the Chem Club . . . Comes from Huntington Park . . . Well known about campus for his slow smile and his vast store of accumulated knowledge.

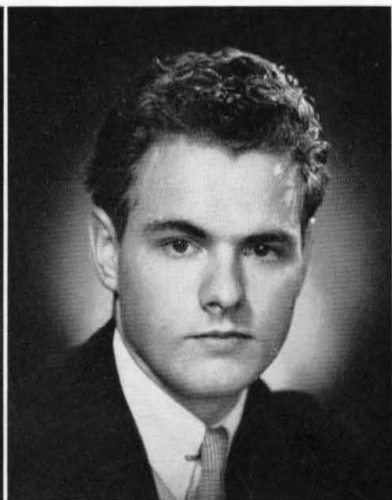


FREDERICK C. BRUNNER

An applied chemist from Alhambra . . . Member of Throop Club . . . Member of Chem Club . . . Cataloguer for Tau Beta Pi . . . Member of Varsity Club . . . Frosh football . . . Brilliant member of Tech tennis teams for three years varsity . . . Captain of tennis team for two years . . . Two year winner of the Scott Tennis Trophy . . . A well-rounded college career.

CLIFF BURTON

Cliff came all the way from Colleyville, Kansas, just to become a chemical engineer at Tech . . . Active member of the Chem Club . . . Three year member of Throop Club . . . Played a good game of spring football in 1937 . . . Enjoys the somewhat dubious relaxation of boxing . . . He swings a wicked left.



DON C. CAMPBELL

Student Body Athletic Manager . . . Varsity Club . . . Press Club . . . Beaver . . . 5 Honor Keys . . . Varsity water polo and swimming . . . Track manager in '37 and '38 . . . Studies Mechanical Engineering . . . Member of Throop Club, and plugging Pledgemaster in '38 . . . Will always be remembered as chief motivating force on '39-'40 Board of Directors.

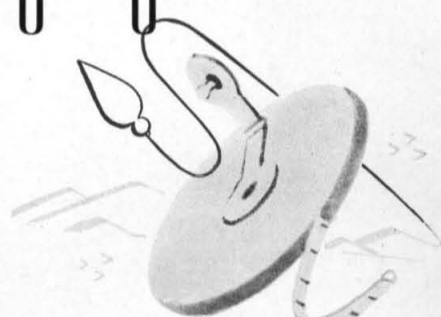
WILLIAM CLEVELAND

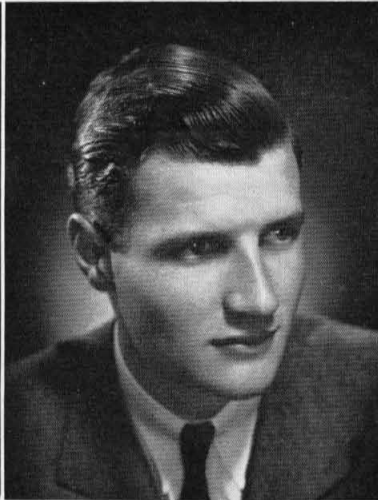
Coming from Whittier, Bill has settled down to the study of Geology . . . Famed as an expert in the Paleo. laboratory . . . Played baseball for two years . . . One year as member of Fleming's softball team . . . Enjoys nothing better than a good bull session with the rest of the "boys" of Alley Three.

RAYMOND O. CLINTON

Ray comes from Glendale . . . Used to ride a bicycle from there in his frosh year . . . A real chemistry fiend . . . Four years member of Chem Club . . . Four years of Chemical research . . . Writer for California Tech . . . Writer of witty English themes, notable for their sparkling humor . . . Interested in photography and hunting . . . A married man.

C L A S S



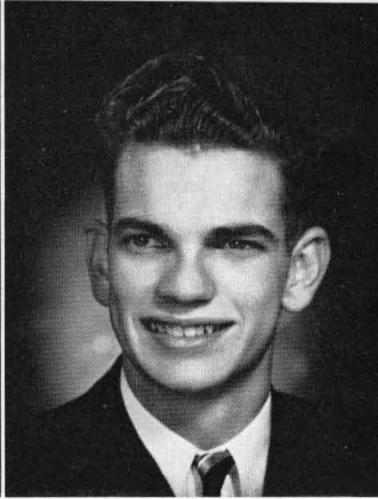
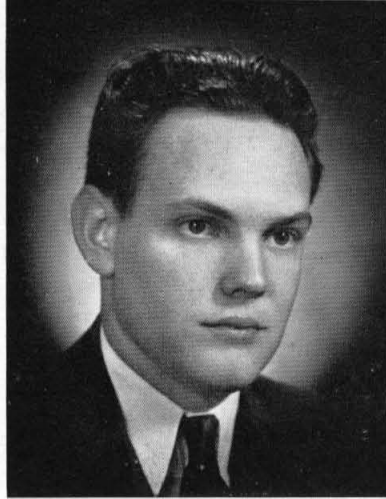


A. M. COMPTON, JR.

Although not associated with any house, "A.M." has found time for extensive Y. M.C.A. work . . . Prominent member of the Walrus Club . . . As president brought many interesting speakers to the Tech campus this year . . . Calls Davenport, Iowa his home . . . Studying to become an aeronautical engineer.

ROBERT OSBORNE COX

Member of Ricketts House in his frosh and sophomore years . . . Publisher of the "Ricketts Rag" . . . Plays a mean trumpet in the band and orchestra . . . Frosh cross country . . . Known as campus "junkman" because of mania for fixing broken machinery . . . Interested in automotive experimentation, motor-cycling, flying, and boat racing.



FRANK W. DESSEL, JR.

President of Biology Club . . . Three years melodious participation in the Glee Club . . . One year Ricketts House secretary . . . Interhouse wrestling, football, and track . . . One year Rally Committee . . . Member frosh debate squad and Y.M.C.A. . . . Can always be counted on to liven up any good bull session.

SHELDON CYR CRANE

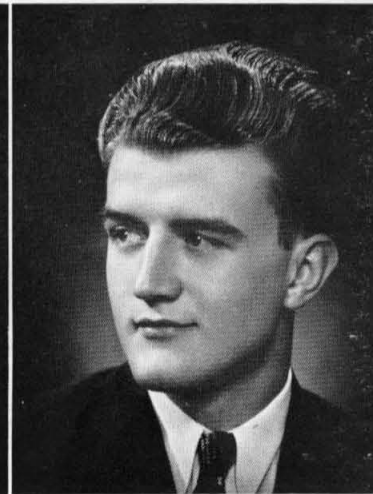
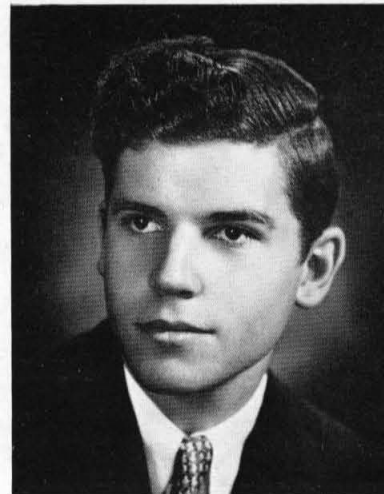
Member of the Chem Club . . . Water polo in '38 and '39 . . . Scrub football in '37 . . . One of Blacker's most social members . . . Studies industriously at Biology . . . Known as "Shelly" among the Blackerites . . . Is said by some to be practically married . . . Interested in playing badminton and volleyball, and in getting as much sleep as possible.

JAMES V. CRAWFORD

Mechanical engineering claimed Jimmy, bringing him from Burbank to study the intricacies of the subject . . . Member of the A.S.M.E. . . . Chairman of the group this year . . . Frequently deserts the grind to prow about taking pictures . . . Furthers his fondness for the pictorial arts by spending his idle hours sketching.



1 9 4 0



ROBERT E. FLEMING

President of Newman Club . . . Former treasurer of the club . . . Member of Throp Club . . . Member of A.I.E.E. . . . Two years of varsity tennis . . . Worker on Exhibit Day . . . Comes from Glendale . . . Is majoring in Applied Physics . . . Is known for his ability as a shark in the somewhat bewildering complexities of French and German.

GERALD P. FOSTER

"Jeep" is one of Ricketts most active seniors . . . Beaver . . . Member of Tau Beta Pi . . . Manager of the band . . . Three years playing basketball . . . Member of Drama Club . . . Honor Key . . . Two years on Rally Committee . . . Active on house teams . . . Studies mechanical engineering . . . Member of the A.S.M.E. . . . Lives in famed "Snake Alley" . . . An Eagle Rock man.

GERRIT DAAMS

Gerrit comes from Alhambra . . . Is a member of Throop Club, and active in its activities . . . Is studying Applied Physics . . . Is known for his conscientious application to the work at hand . . . A member of the A.I.E.E. . . He may be found almost any afternoon on the tennis courts, engaged in the game that is his hobby.

CLAUDE E. DAVIES

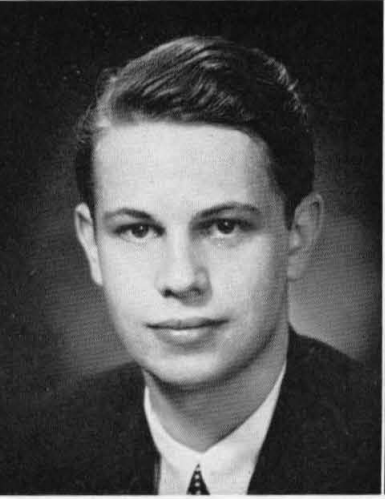
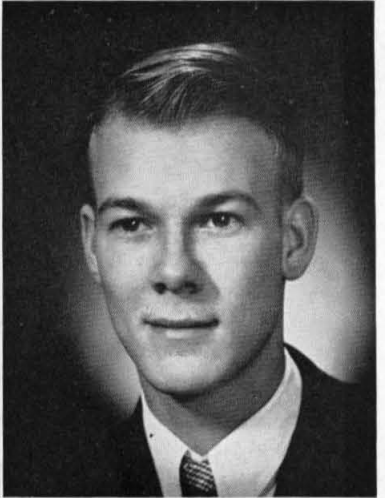
Majoring in Applied Physics . . . Was out of school for some time . . . Active in the drama from 1934 to 1936 . . . Member of Blacker House over the same period . . . Participated in Y.M.C.A. activities . . . Comes from Santa Ana, California . . . Was known during his frosh and sophomore years as a social gad-about . . . Enjoys playing the piano during his spare time.

LEO DAVIS

Leo is known throughout the campus as a man who can put out more academic work per unit time than anyone else . . . Comes from Los Angeles . . . Plans to become a first-rate physicist . . . Is interested in the brain-twisting intellectual game of chess, and during odd moments indulges in his hobby of photography.

JOHN DAY

Blond . . . A hearty smile . . . Member of Throop Club . . . Comes from Arcadia, California . . . Is majoring in Physics . . . When not engaged in serious pursuit of his chosen field, finds enjoyment running about taking pictures of odd bits of interest . . . Likes to tinker with radio when he can find the time.



EDWARD O. DICKERSON

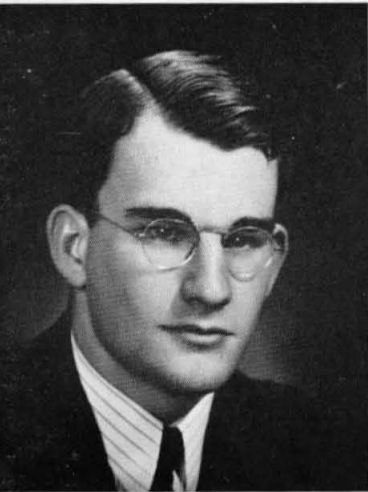
A regular supporter of house athletics, Ed has been a member of the Blacker House team for four years . . . Graduates as a mechanical engineer, and a member of the A.S.M.E. . . Interested in music, has played with the Tech band for four years and the orchestra for two . . . Comes from Redlands . . . Is a happily married man.

LUDWIG EPSTEIN

Entering Tech in his sophomore year, Ludwig joined Blacker House in his junior year . . . Coming from Beverly Hills, he is studying Physics . . . Formerly thought chemistry was his line . . . Interested in good music, and is an ardent supporter of the Gilles Guilbert lectures . . . Avowed hobby is "snaking".

DAWKINS ESPY

Coming from New Orleans, Dawkins moved immediately into position of Feature Editor of Tech . . . Famous for sensational "Horse Sense" column . . . Member of Band and Glee Club . . . Member of A.I.E.E. . . Present at all social activities . . . Has ham license, and has had articles printed in ham magazines . . . Wants to work in radio . . . Honor Key.



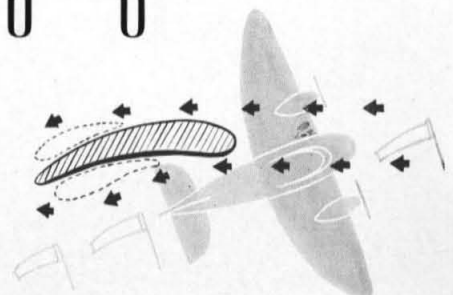
A. FINLEY FRANCE

Member of Dabney Hunt Club . . . Secretary of Dabney House . . . Also Pope . . . Participant in interhouse football . . . Four years of leather punching in boxing . . . Comes from Annapolis, Maryland . . . Chief relaxation is an olefactorily obnoxious pipe . . . Chief hobby is admittedly women of Long Beach.

PAUL R. FREEHAFER

Payette, Idaho is Paul's home town . . . Left there to probe the mysteries of the chemistry course here at Tech . . . Graduates as a member of the applied chemist section . . . Has held his own against the rest of the members of an admittedly "snake section" . . . Member of Blacker House . . . Enjoys a game of tennis as a change from test tubes.

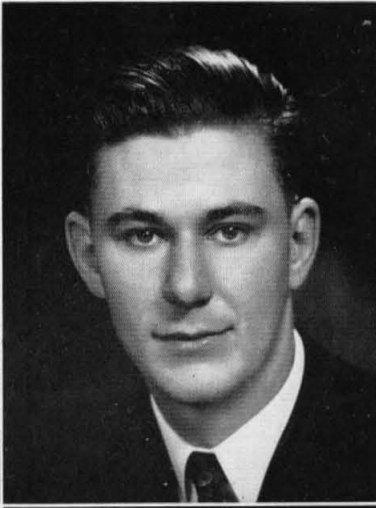
C L A S S





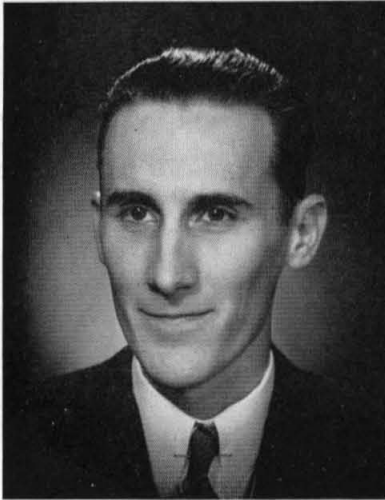
IRVINE F. GERMAN

Comes from Garden Grove, California . . . Two years singing in the Glee Club . . . Three years of tempestuous participation in the Band as chief trumpeter. Member of Blacker House . . . One of the senior chemists . . . Finds time between labs to play a mean game of tennis.



ROBERT A. GEWE

Vice-president of the A.S.C.E. . . Member of the Varsity Club . . . Four years of baseball . . . Athletic Manager of Blacker House for two years . . . Writer for the California Tech . . . Interhouse basketball, with his height gaining many points for the team . . . Comes from Los Alamos, California to learn the whereabouts of Civil Engineering.



JAMES GLASSCO

Transferred from Pasadena Junior College in his junior year . . . Well known for his ability as an outstanding mechanical engineer . . . Member of the A. S. M. E. . . Comes from San Gabriel, California . . . Finds a social outlet in the activities of Throop Club . . . Says little but does much.

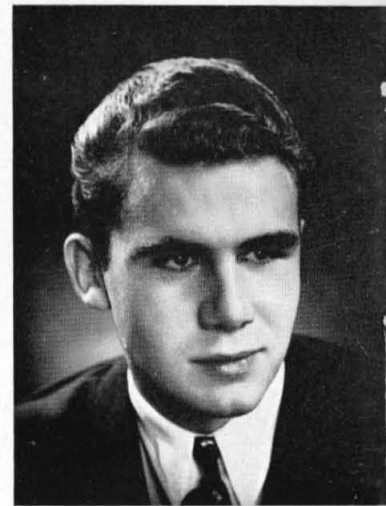


ROBERT B. GLASSCO

Bob is another of the transfer students who have made good at Tech . . . Mechanical engineer of no mean ability . . . Member of the A.S.M.E. . . Comes from San Gabriel . . . Finds enjoyment in moments between intensive snaking to dash about the courts engaging in his favorite sport, basketball.

MARION E. HINES

Blacker has been glad to have Marion among its members . . . Member of the house's champion wrestling team . . . Also swam in interhouse competition . . . An applied physicist from Long Beach . . . Worked in Physics Department during Exhibit Day . . . One of the senior Tau Betes . . . Member of A.I.E.E. . . Interested in high fidelity sound reproduction.

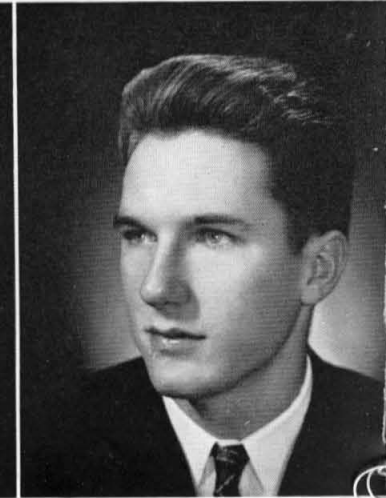


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ROBERT JANSSEN

Transferred from Fullerton Junior College in sophomore year . . . Comes from Whittier . . . Studying electrical engineering . . . Member of A.I.E.E. . . One of Blacker's best natured seniors . . . Strong support on interhouse football teams for three years . . . Enjoys puffing on a pipe as an aid to concentration.



JAMES W. JONGENEEL

Jimmy comes from Honolulu . . . Studying civil engineering . . . Member of Tau Beta Pi . . . Y.M.C.A. treasurer this year . . . Track Manager for two years . . . Member of Tech's band for two years . . . Known as a fast and efficient waiter of the Wheeler staff . . . One of Fleming's liveliest graduating seniors.

LLOYD GOODMANSON

Vice-president of Beavers . . Varsity Club . . Three years basketball, captain this year . . Two years varsity track . . Twice winner of the Hanes Decathlon Trophy . . Three Honor Keys . . Former Head Yell Leader . . All these and many more made Lloyd one of Tech's most successful student prexies . . An aeronaut from Ricketts.

ROBERT W. GRIGG

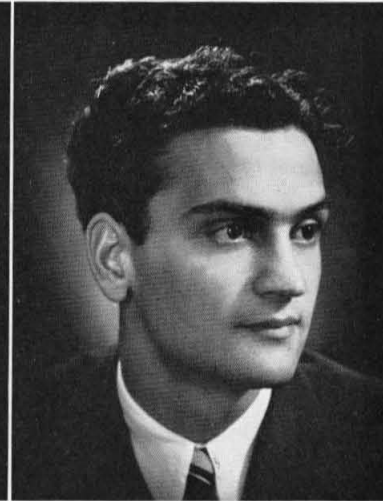
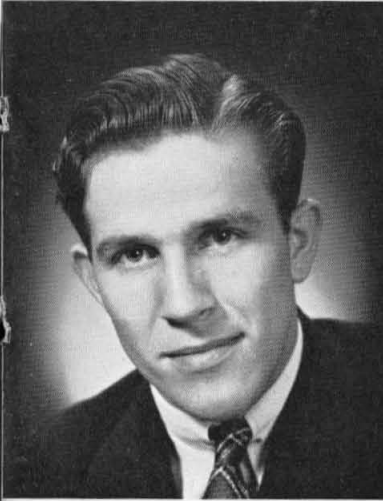
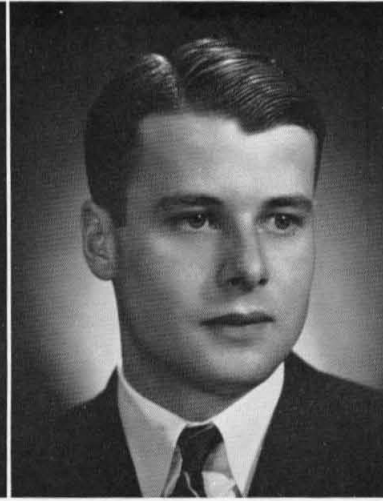
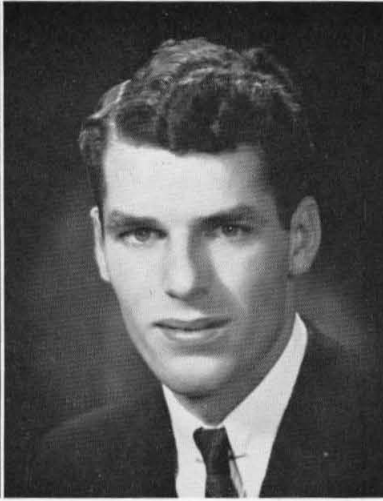
Bob has had an enviable record at Tech . . An unapproachable grade point average . . Member of Tau Beta Pi . . Member of Varsity Club . . Four years cross country and track . . Member of A.I.E.E. . . Active participant in all Throop Club activities . . Never seeming to slacken in his bounding energy

ALFRED V. GUILLOU, JR.

This is "Sticky's" fifth year . . Four years of service to the student body previous to this one . . Fleming House president '58-'59 . . Headached the California Tech through the same year as Business Manager . . Member of the Beavers . . One of the old-time members of the Press Club . . Friend of one and all.

JOHN C. HARPER

Johnny has financed Dabney House this year as treasurer . . Former librarian of the house . . One of the big academic threats among the applied chemists . . Member of Tau Beta Pi . . Member of Chem Club . . Two years on varsity tennis team, and member of frosh team . . One year on Big T staff . . Comes from Denver, Colorado.



WALTER HOFMANN

Walt has been one of the main props in Throop Club's interhouse teams . . Baseball . . Basketball . . Wrestling . . Studies Civil Engineering . . A.S.C.E. secretary . . Member Varsity Club . . Two year letterman in football . . Assistant Chairman of Exhibit Day . . Left Bell, California to become a Techman.

HENRY G. HOHWIESNER, JR.

Hank comes from Sacramento . . Studying Mechanical Engineering . . Played water polo in his senior year . . Member of Fleming House . . Double room with Wasem, which was always a scene of bubbling activity . . Handsome . . Debonair . . Envied by lesser lights for his ability to charm the women.

MILLARD W. JACOBS

Hails from Los Angeles . . Member of the A.S.C.E . . Member of Throop Club . . Enjoys a good game of tennis . . Frosh basketball . . Varsity basketball in sophomore and junior years . . Actually enjoys working problems in hydraulics and structures . . Likes dancing and associated pastimes.



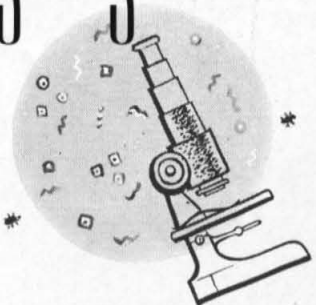
LEROY JAMES KEMP

Vice-president of senior class . . Vice-president of Fleming . . Varsity Club . . Beavers . . Four frosh numerals . . Captain of this year's baseball team . . Two honor keys . . Comes from Bell, California . . Finds time with all his extracurricular activities to put in a lot of work on his mechanical engineering . . A truly distinguished senior.

JACK KEYSER

Jack came from Hayward, California to become a Ricketts man . . Known as a well-informed electrical engineer . . Chairman of the A.I.E.E. . . Frosh football and baseball . . Senior basketball manager . . Member of Varsity Club . . Warbles in Tech's Glee Club . . One of Ricketts' old school bridge players.

C L A S S





DONALD H. KUPFER

Don comes from Los Angeles . . . One of the average raisers among the geologists . . . Loves to hike furiously on field trips . . . Member of Newman Club . . . Two years on Publicity Committee . . . Member of Election Committee . . . Two years water polo and three years swimming . . . Known for his friendly generosity . . . Member of Ricketts.



LUTHER P. KUTTNER, JR.

Comes from Los Angeles . . . Studying civil engineering . . . Popularity won him the position of treasurer of the A.S.C.E. . . . Member of frosh baseball team in 1935-36 . . . Experience there made him a valuable man on Blacker's interhouse baseball teams . . . Asset on interhouse football teams.

WM. THOMAS KLUGE

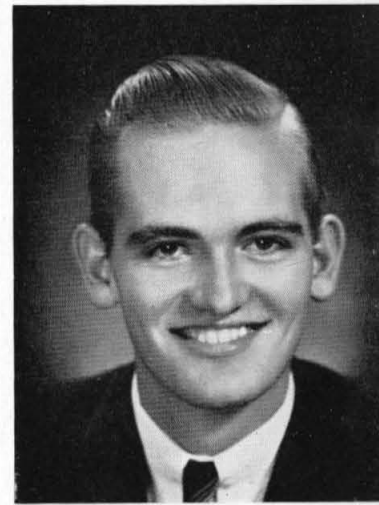
Known to fellow Blackerites as "Joe" . . . Lends credence to the old idea of big things coming in small packages . . . Comes from Portland, Oregon . . . One of the much-oppressed applied chemists . . . Member of Chem Club . . . Relaxes from the pursuit of pentane by toying with tennis . . . Known as a demon on the badminton court.

JEROME KOHL

Jerry is well known on the campus for his brilliant work as an applied chemist . . . Member of Tau Beta Pi . . . Two years of varsity debate . . . Member of Pi Kappa Delta . . . Competitor for Conger Peace Prize . . . Member of Throop Club and one of its regular dance supporters . . . Frosh track . . . Interhouse football . . . Jerry's been busy!

DONALD E. LOEFFLER

Donald is known the campus over for his hearty laugh . . . A chemist from Inglewood . . . Frosh numerals in cross country and track . . . Member of Tau Beta Pi . . . Two years member of the band . . . Vice-president of the "Y" in junior year . . . President in senior year . . . Interested in being friends with everyone, and successful at it.



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WALLACE M. MACKAY

Editor of '38 Big T . . . Editor of '38-'39 Little T . . . Two Honor Keys . . . Publicity Manager of A.S.B. . . . Member of Tau Beta Pi . . . President of Glee Club . . . Member of Press Club . . . Election Committee . . . Stage crew for two years . . . Frosh football and basketball . . . Artist . . . Without doubt the ablest "buller" on the campus.



JOSEPH F. MANILDI

President of Blacker House . . . Former Vice-president . . . Golf team captain . . . Member of Drama Club . . . Member of Beavers . . . President of Tau Beta Pi . . . Chairman of Interhouse Committee . . . Renowned for portrayal of "feminine" leads in the Greek plays . . . Likes good music . . . Headed for success as an electrical engineer.

ROLF O. LANGERUD

Coming from Oslo, Norway, it is only natural that Rolf should be one of Tech's most energetic Ski Clubbers . . . Studying aeronautical engineering . . . Member of Fleming House . . . Member of A. S.M.E. . . Member of Aero Club . . . Interested in amateur photography . . . Loves to fly, and is training as a pilot under the C.A.A.

WALTER R. LARSON

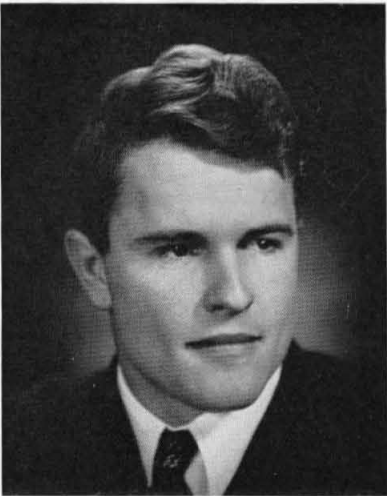
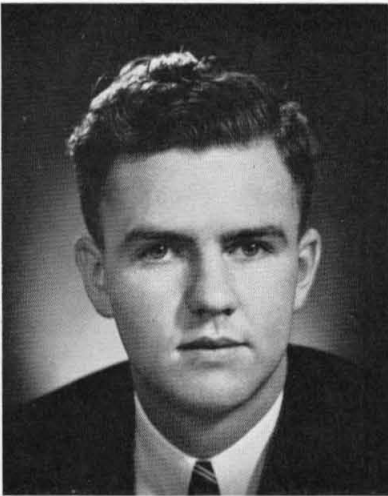
Walt has gained valuable business experience at Tech . . . Collection Manager of California Tech . . . Assistant Business Manager . . . then Business Manager . . . Member of Fleming House . . . Frosh basketball . . . Water polo . . . Cross country . . . Star handball player . . . Studies electrical engineering . . . Interested in radio.

ERIC GILBERT LAUE

Electrical engineering laid its hold on Eric and he journeyed to Tech to become an E.E. . . Home town is Los Angeles . . . Will be remembered as the one man in the class who actually understood philosophy . . . Enjoys swimming, especially at the Oxy pool . . . Interested in radio.

C. CROXALL LEGRAND

Known as "Butch" to Ricketts men, Croxall has been a very active house man . . . Honor Key . . . Exhibit Day chairman . . . Pledgemaster for the frosh . . . Member of band . . . Stage crew . . . Radio Club president . . . Baseball manager last year . . . Reporter for California Tech . . . Member of Publicity Committee . . . Does card tricks as a pastime.



BERNARD LOLMAUGH

Comes from Hemet, California . . . Enlisted as an electrical . . . Member of the band in sophomore and senior years . . . Member of Dabney House . . . Member of A.I.E.E. . . Interested in radio, and is a "ham" . . . May be found frequently in Dabney Lounge, listening to classical music, which is one of his hobbies.

PAUL A. LONGWELL

Paul's quiet way has won many friends for him at Tech . . . Calls Santa Maria, California, home . . . An applied chemist and secretary of the Chem Club . . . Member of Tau Beta Pi . . . Two years on stage crew . . . Mainstay of Blacker's football team for four years . . . Golfs frequently, together with badminton.



BERNARD LOVE

Bernie may be found almost any time in the chemistry laboratory . . . Comes from Los Angeles to learn the secrets of science via test tubes and Dumas bulbs . . . Member of Throop Club . . . Member of the orchestra, and student director of the organization . . . Frosh track . . . Relaxes by enjoying swimming.

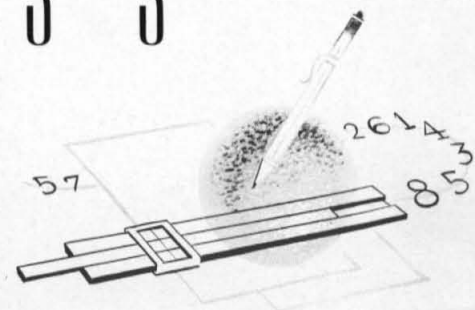
WILLIAM R. V. MARRIOTT

Two years Board of Control . . . Member of Varsity Club . . . Beaver . . . Honor Key . . . Treasurer of Throop Club . . . Secretary of Pi Kappa Delta . . . Election Committee . . . Publicity Committee . . . Frosh and varsity track and cross country . . . Known as able debater for four years . . . Member of Tau Beta Pi . . . Yet has still found time for his chemistry.

JULES F. MAYER

Jules comes from Los Angeles . . . Is learning the complications of mechanical engineering . . . Member of the A.S.M.E. . . Treasurer this year . . . One of the freshman leatherlunners for the class of '40 . . . Member of the Throop Club . . . Always present at dances and other Club functions.

C L A S S



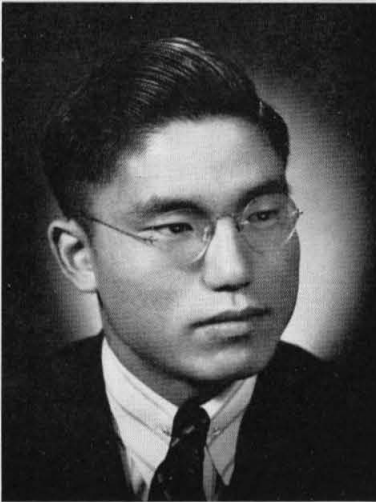
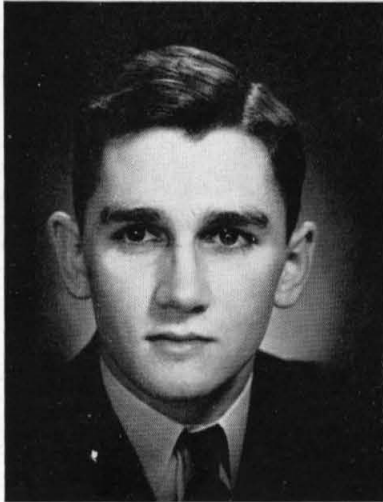


ROBERT B. MEYER

Bob has had time to make himself one of the mainstays on Tech's athletic teams . . . Has played a bangup game of baseball for the varsity for three years . . . Gained experience playing frosh baseball . . . Also frosh football and basketball . . . Member of A.S.M.E. . . Member of Throop Club . . . Comes from Alhambra.

HAROLD SOMERS MICKLEY

Member of Tau Beta Pi . . . Vice-president of Press Club . . . 1939 Big T Editor . . . Member of Chem Club, being a hard working chemical engineer . . . Honor Key . . . Two years track . . . Frosh football . . . One year swimming . . . One of Fleming's "Big Four" senior officers, as treasurer of the class.



FRANK OLNEY

It was in 1958 that there entered at Tech a transfer from the University of Redlands . . . Frank Olney . . . Since then he has made many friends for himself . . . not only in the E. E. Dept., but in other branches as well . . . Member of the A.I.E.E. . . . Moneta, California is his home.

DARRAGH NAGLE

One of Ricketts' outstanding scholars . . . Vice-president of Tau Beta Pi . . . Vice-president of Ricketts . . . Member of Varsity Club . . . Member of Glee Club . . . Interested in good music . . . May often be found of an evening enjoying the relaxation of a little quiet piano playing . . . Has made the Ricketts social program one of the fullest on campus.

YOSHINAO NAKADA

For four years Yosh has surprised opposing football players by bowling them over . . . Attacks everything he does with the same energy . . . Brilliant scholar . . . Successful treasurer of Ricketts . . . Agile handball player . . . Studying physics with an eye to weather forecasting . . . Lives in Azusa.



CHARLES M. PAYNE

Chuck has helped pilot Dabney House this year in the capacity of vice-president . . . Former secretary of the class in sophomore year . . . Frosh baseball . . . Two years cross country . . . Two years in the Glee Club . . . Studies mechanical engineering . . . Relaxes from same by skiing with professional grace. . . . A married man.

RICHARD W. POWELL

Transferring from Wyoming, Dick entered early into Tech's extra-curricular life . . . Will be remembered for his interpretation of the title role in "The Drummer" . . . Member of the Drama Club . . . Member of the Throop Club . . . Works at electrical engineering . . . Member of the A.I.E.E. . . . Originally from Twin Falls, Idaho.

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ROBERT S. NEISWANDER

Coming from Phoenix, Bob took up electrical engineering at Tech . . . Tech Proof Editor . . . Member of A.I.E.E. . . Spent his years here living in Blacker, where he helped on the house track team . . . Interested in classical music . . . Consistent worker on this book . . . Member of the Musicale . . . Sings in the Glee Club . . . Relaxes by indulging in sketching and cartooning.

CLINTON TOMS NEWBY

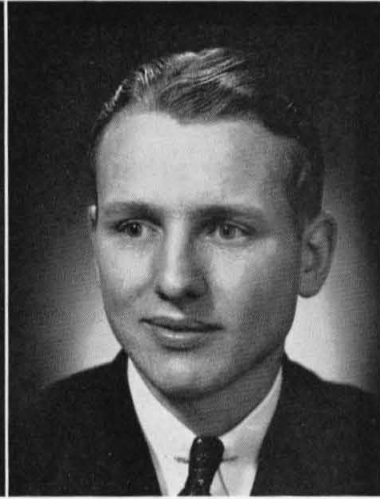
Clint has been one of Blacker's consistent average raisers . . . Plans to become an aeronautical engineer . . . Did so well as an undergraduate mechanical that he was elected to Tau Beta Pi . . . May be found at the most unreasonable hours solving some perplexing problem by candle light . . . Comes from Long Beach.

FREDERIC E. ODER

Vice-president of Pi Kappa Delta . . . Member of Press Club . . . Editor of '39-'40 Little T . . . Member of Publicity Committee . . . Member of Election Committee . . . Frosh football . . . One year varsity water polo . . . Comes from Alhambra to crack rocks with the geologists . . . Sports the nickname of "Fritz".

NORMAN PEERS OLDSON

Mechanical engineering called Norm from his home in Pasadena . . . Member of the A.S.M.E. . . Found outlet for social life in the Throop Club . . . In spite of the oppression of scholastic work has found time to engage in athletics . . . Frosh baseball and football . . . Member of varsity baseball squad for four years . . . Intramural Manager this year.



CHARLES S. PALMER, JR.

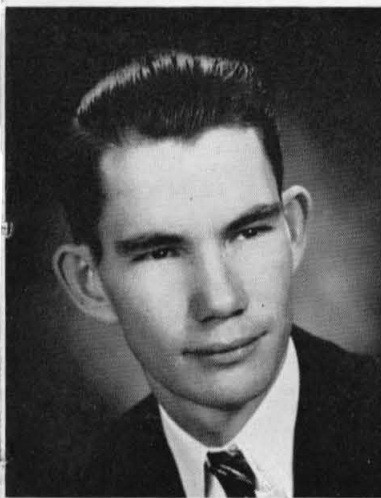
Chuck began his career with a bang . . . Frosh Chairman and president . . . Four years a member of Beavers . . . President of Throop Club . . . Former Vice-president . . . One year on Board of Control . . . Frosh football . . . Three years varsity football manager . . . Honor Key . . . Made himself famous digging up choice bits for his social column in the Tech.

JOHN G. PALMER

For four years Jack has helped direct the successful social life of Blacker . . . Treasurer this year . . . Bolstered inter-house track and swimming teams . . . One year in the orchestra . . . Pursuing mechanical engineering . . . Member of A.S.M.E. . . Enjoys dancing and sailing the bounding main.

RALPH PAUL

Ralph is another of the graduating chemists . . . Member of the Chem Club . . . Member of Dabney . . . Member of the Dabney Hunt Club . . . Lives at sunny Laguna Beach . . . For two years has sung enthusiastically with the Glee Club . . . Donned a white coat on weekends to be an Athenaeum waiter.



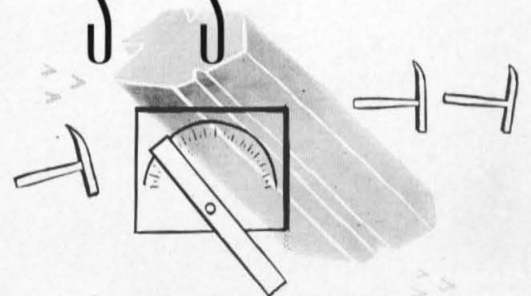
MILLER W. QUARLES

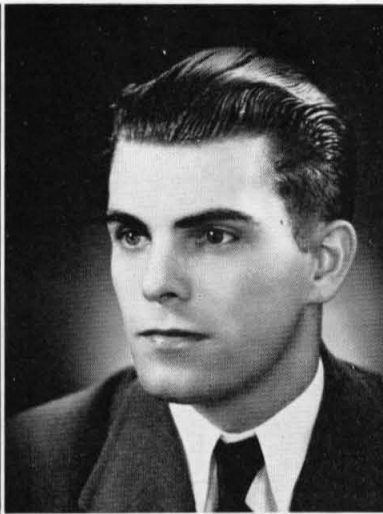
The graduating geologists all know Miller as the man at the top of the petrography class . . . Excels in all subjects geological . . . A native of Los Angeles . . . Former member of Ricketts House . . . Likes to travel to his Master's thesis area for a week end of field work . . . Finds married life no detriment to successful scholastic work.

ROBERT STANLEY RAY, JR.

Applied chemistry laid its spell on Bob and he left Riverside to study at Tech . . . Member of the Chem Club . . . One of the Throop Club's most enthusiastic dancers . . . Active in the Y.M.C.A. . . Interhouse football and softball . . . Enjoys most sports, and likes to set off on a week end for enjoyment of hunting.

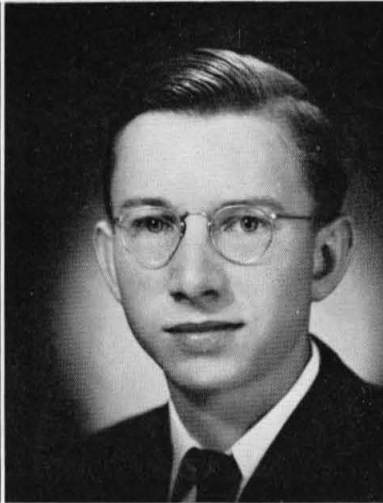
C L A S S





HOWARD W. REYNOLDS, JR.
Ricketts' destiny was this year in the hands of "Howdy" as president . . . Member of the Beavers . . . Vice-president of sophomore class . . . Made frosh basketball numeral . . . Played house basketball for three years . . . Comes from Beverly Hills to be one of the most debonaire of the senior geologists . . . Honor Key.

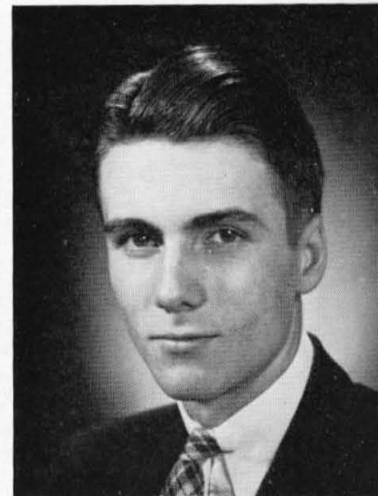
CHARLES H. ROSE
Charlie transferred here from Glendale J.C. in 1937 . . . To be a mechanical engineer . . . Was member of Glendale's Camera Club . . . Is interested in the optical and sensitometrical sides of photography . . . Likes to tinker with radio . . . Member of Dabney House.



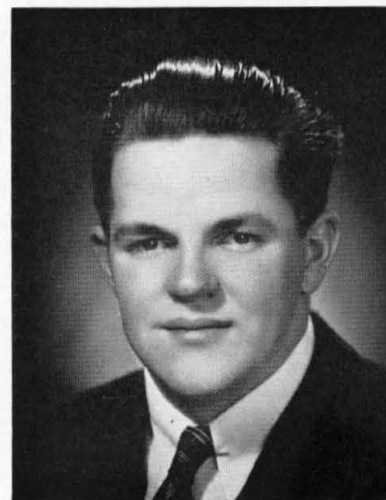
HUBERT D. SAMUEL, JR.
H.D. is one of the graduating mechanical engineers . . . Joined the A.S.M.E. to gain additional information on his chosen field . . . Comes from Los Angeles to pursue his studies . . . Has been a member of the Throop Club for two years . . . Leaves his lessons to stretch his legs working out on the track.

LATHROP SANDIFORD
A four year member of Ricketts House . . . Librarian of the house . . . Studying electrical engineering . . . Was Vice-chairman of the A.I.E.E. this year . . . Lives in Huntington Park . . . Found his height and long legs a valuable aid in interhouse high jump . . . Loves to hike at his cabin in Frazier Park.

RANDLOW SMITH
Randy has been a constant threat to the average of the applied chemist section for four years . . . Member of Tau Beta Pi . . . Member of Chem Club . . . Member of Amateur Astronomical Society . . . Plays a mean game of golf . . . May be found of an afternoon on the tennis courts . . . Frosh tennis team . . . Calls Dabney home.



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DUMONT S. STAATZ
Dumont has been of great help for four years in filling a big place in the football team's line . . . Vice-president of Varsity Club . . . Frosh basketball manager . . . Frosh "Y" . . . Comes from Olive View to carry on the family tradition as a pre-medical student . . . Member of Ricketts House, and a consistent member of those present at dances.

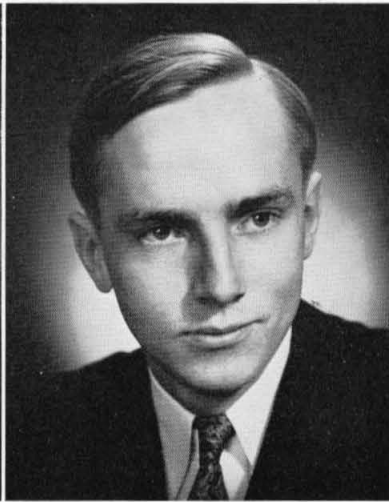
MORTIMER STAATZ
Like his brother, Mort has been out for football for his entire four years . . . In addition has been out for track his last three years . . . Exhibit Day Sub Chairman in 1939 . . . Studies geology, and is known as a field man of no mean ability, going through the brush like a steam roller . . . A Ricketts man . . . Known to friends as "Pudge".

HERBERT SARGENT, JR.

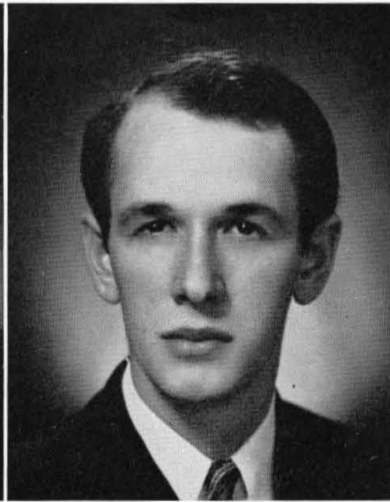
Herbie has earned a reputation for himself by knowing an infinite number of facts and figures about little known subjects . . . Quotes them by the yard . . . One of the chemistry course's conquerors . . . Research for the department for four years . . . Interested in photography and in blowing glass.

**W. BERTRAM SCARBOROUGH**

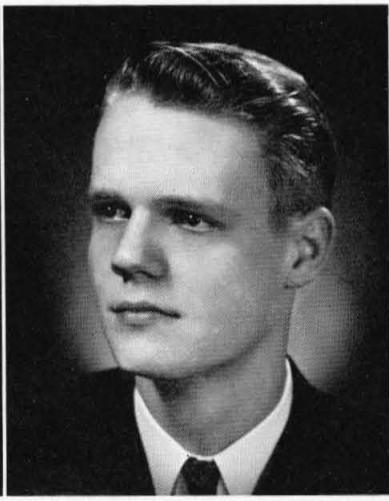
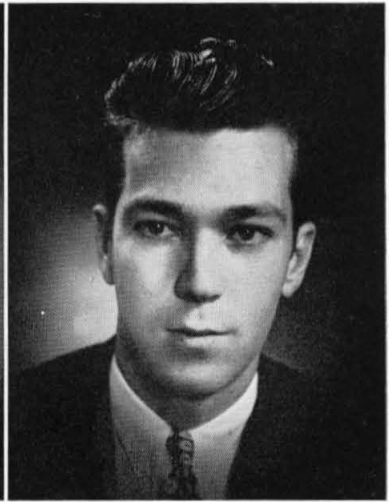
Debating interested Bert, and he did so well that he was elected to Pi Kappa Delta . . . President this year . . . Secretary of Tau Beta Pi . . . Honor Key . . . President of the Chem Club . . . Has played a trumpet in the band for four years . . . Orchestra one year . . . For-sakes the sacred confines of Blacker to play tennis.

**CARL SCHRADER**

For two years Carl has managed Tech's casaba squad efficiently and well . . . Plays tennis for his own exercise . . . Two years in the Glee Club . . . Journeyed to Tech from Mill Valley, California . . . Plans to be a mechanical engineer . . . Member of the A.S.M.E. . . A four year Ricketts man.

**E. WILBUR SILVERTOOTH**

Three years ago Silvertooth transferred from the forbidden confines of Occidental . . . Studies physics . . . Spends most of his spare time in a cell in Astrophysics doing research . . . Interested in delving into the expanses of the universe through his hobby of astronomy . . . One of the senior members of Blacker House.

**WILLIAM D. SMITH**

Bill has spent his time at Tech living in Dabney . . . One of the charter members of the Dabney Hunt Club . . . Probably the only member of the house who doesn't ski . . . Studying aeronautical engineering . . . Likes swimming . . . a self-styled "beachcomber" . . . Known as "Spike" . . . Likes to dance . . . An admittedly ardent pursuer of the fairer sex.

ROBERT E. SPIELBERGER

Has uncanny ability in the successful handling of money . . . A.S.B. treasurer this year . . . Treasurer of the A.S.M.E. . . One year on the Board of Control . . . Consistent worker on the Big T . . . Member of Beavers . . . Honor Key . . . Souvenirs from the Philippines make his room in Ricketts' Snake Alley one of most interesting in the house.

**WILLIAM AUSTIN SPOONER**

As editor of this book, Bill worked hard in his senior year . . . Awarded Honor Key for his journalistic activities . . . Member of Beavers . . . Chem Club . . . Election Committee . . . Newman Club . . . Exhibit Day Subchairman . . . California Tech columnist . . . Senior Cross-Country manager . . . Junior Track manager . . . Kept busy as Ricketts' only senior Applied Chemist.

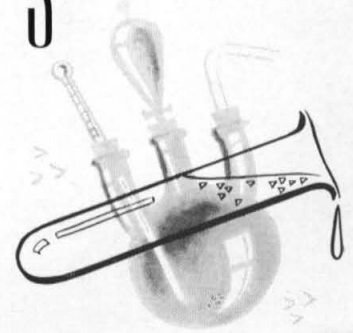
DAVID H. STEINMETZ III

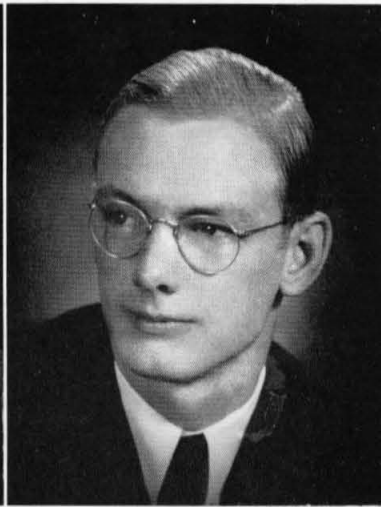
Dave proved his executive ability by successfully managing the 1939 Exhibit Day . . . Member of Election Committee . . . Two years as Blacker's social chairman . . . Member of Beavers . . . Follows mechanical engineering as a profession . . . Member of A.S.M.E. . . Spends his spare time puttering with photography.

J. B. STEVENS

Stevie has enjoyed the somewhat dubious honor of being Fleming's "Pope" for two years . . . Member of Beavers . . . Member of Press Club . . . Made his letter in the heartrending sport of cross country . . . Left Long Beach to embrace E.E. . . With his wit and quick humor, J. B. has been a constant provider of entertainment for all his many friends.

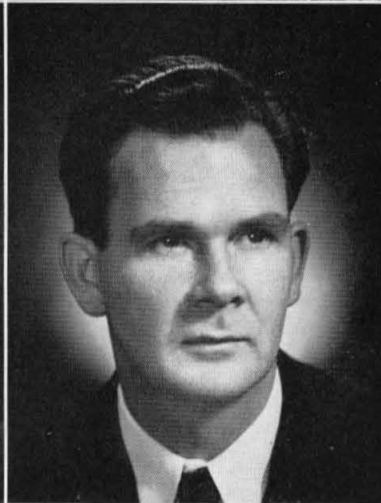
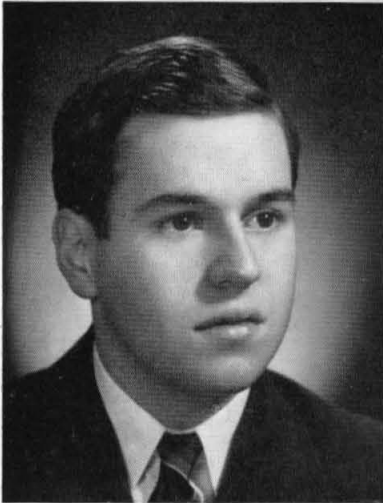
C L A S S





WILLIAM W. STONE, JR.
 Bill is planning to become a meteorologist, and has been practicing making predictions recently, with somewhat negative results . . . Played frosh tennis . . . Wears Honor Key . . . Member of Glee Club . . . Former pledgemaster of Ricketts House . . . Known and envied for his devotion to "the one and only".

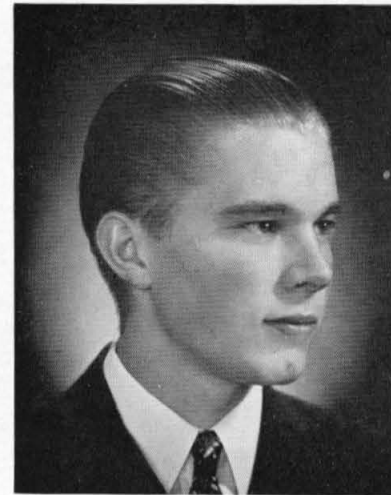
WILLIS STONER
 Willis comes from Pasadena and lived at home during his years at Tech . . . Interested in gears and cams, and naturally moved into the field of mechanical engineering . . . Member of the A.S.M.E. . . Enjoys swimming, and was member of the water polo practice team this year.



ELLERY STOWELL
 Ellery's room seems to be the ultimate destination of every Ricketts man looking for a bull session . . . and everyone else . . . He is Vice-president of the Biology Club . . . Member of Glee Club and orchestra . . . Prominent of house social committee . . . Enjoys good music with the Musicale . . . Everyone's friend.

R. A. STROUD
 In 1928 "R.A." first started the long course at Tech . . . Played a good game of varsity football for two years . . . Then dropped out for ten years . . . Accomplished the almost impossible by coming back to finish his fourth year after that time . . . A civil engineer . . . Member of A. S. C. E. . . Home town Los Angeles.

GEORGE J. TODD
 Member of the Beavers . . . Member of Tau Beta Pi . . . A.S.B. Treasurer in '58-'59 . . . Board of Control in '57-'58 . . . Treasurer of Drama Club . . . Assistant Editor of '58 Big T . . . Honor Key . . . One of the really high men in the mechanical engineering section . . . George's stay at Tech has been a well-rounded one.



1 9 4 0



WARREN H. VETTER
 Blacker's dances just wouldn't be complete without Warren . . . His decorations and drawings have helped make many an occasion a success . . . The same is true of his work on stage crew . . . President of A.S.C.E. . . House football, baseball, and basketball . . . Exhibit Day Sub-chairman . . . Comes from Los Angeles.

RICHARD L. WALKER
 Dick is exploring the marvels of mechanical engineering here at Tech . . . Finds membership in A.S.M.E. beneficial in furthering information on this subject . . . Lives in Alhambra . . . Gains valuable social experience from the Throop Club affairs . . . Found freshman baseball a means of working off excess steam.

RICHARD L. SULLIVAN

With his slow humor, Sullie has made himself one of the most popular of the graduating electrical engineers . . . Member of A.I.E.E. . . Numeral winner in frosh track . . . Three years on varsity track, winning letter . . . Comes from Glendale . . . Enjoys the activities of the Throop Club, of which he is a member.

ROSS D. F. THOMPSON

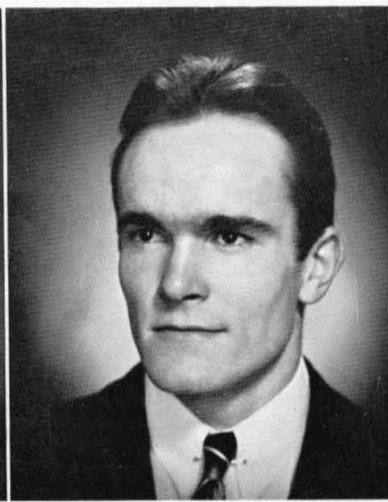
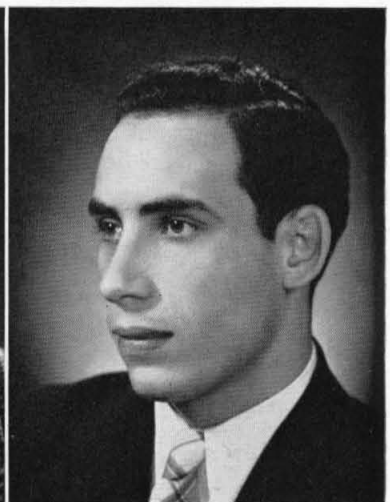
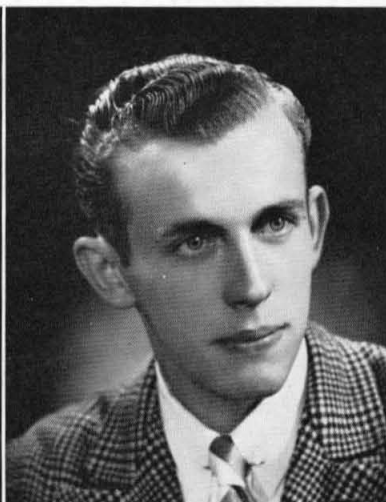
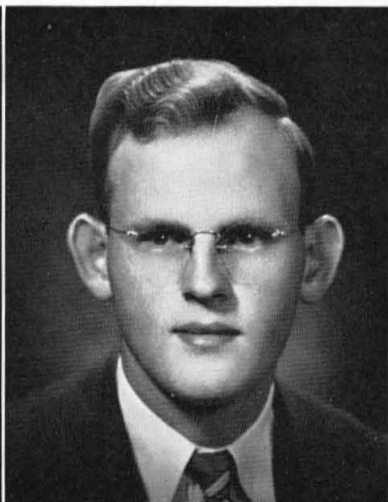
Ross has gained the title of a "walking encyclopaedia", for his knowledge of such a multitude of subjects is nothing short of phenomenal . . . Member of Tau Beta Pi . . . Interested in languages and is proficient in several . . . Studies physics, using Fleming as a base station . . . Likes music, and to climb mountains, just to see the other side.

JACK TIELROOY

Tillie has managed to attain the goal of most Techmen in maintaining a well-rounded social program without suffering scholastically . . . Always present at Throop Club affairs . . . Appearing frequently in the social column of the Tech . . . Throop publicity manager . . . Frosh football and baseball . . . A chemical engineer from North Hollywood.

BERNARD M. TOBIN

"Tobe" has worked hard as editor to bring the 1940 Big T to you . . . Interested particularly in the photographic department . . . Honor Key . . . Worked for three years on photography staff of the Big T . . . Came from Brooklyn to study Physics . . . Played baseball for three years . . . Member of interhouse football and baseball teams . . . A Ricketts man.



KIYO TOMIYASU

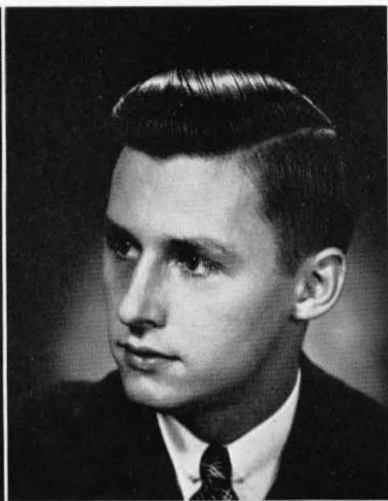
Kiyo comes from Las Vegas to study electrical engineering . . . One of the men from Rickett's Presidential Alley, his room is always well filled with men bulling away the idle hours . . . Plays an excellent game of handball . . . Honor Key . . . Member of Rally Committee . . . Member of A.I.E.E. . . Election Committee . . . Stage crew for plays.

GILBERT VAN DYKE

Secretary of the senior class . . . Chairman of the Episcopal Club . . . Four years at baseball . . . Frosh football . . . Van is known by everyone as the man who put Fallbrook, California, his home town, on the map . . . A geologist, he measures all localities from Fallbrook . . . Like all good Fleming men, enjoys bull sessions.

DAVID J. VARNES

Dave is known for his consistent maintenance of a high average for his fellow geologists . . . Does Y.M.C.A. and boy's camp work . . . Made frosh numeral in football . . . Enjoys horseback riding and archery . . . Likes to do a little prospecting in addition to his school work . . . A super-efficient worker.



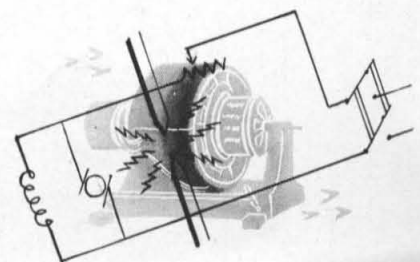
DON WALTER

Vice-president of the junior class . . . Member of the Beavers . . . Publicity Committee . . . Varsity Club . . . Letters in football, basketball, and track . . . Led this year's football team as captain . . . Awarded Wheaton Trophy . . . Honor Key . . . Moved to Ricketts this year and entered all its activities . . . And with it all, "Whitey" is a Tau Beta!

RICHARD WASEM

Geology is the subject which is nearest to Dick's heart . . . Is known as an expert in matters petrological . . . Finds the German language easy prey for his intellectual appetite . . . Member of Fleming House . . . Comes from Long Beach . . . Likes nothing better than to depart of a sunny afternoon to the golf course.

C L A S S





DELMAN S. SPALDING

Left Guilford, Connecticut to become a Blacker man . . . Has been of assistance on the house social committee . . . Is following the course of the transit as a civil engineer . . . Member of the A.S.C. E. . . Athenaeum waiter for four years . . . Known there as "Tiger" . . . Likes to play a vigorous game of volleyball in Blacker court.

JAMES M. WATKINS, JR.

Pasadena is the home town for Jimmy, and applied chemistry is his chosen subject . . . Furthers his knowledge of chemical subjects by membership in the Chem Club . . . Two years on the feature staff of the California Tech . . . Kept Techmen aware of the outside world with timely comments on popular records and radio.

ROBERT W. WAYMAN

Bob is a really interested mechanical . . . Convention speaker at the A.S.M.E. meeting last year . . . Interested in all types of gasoline engines, especially automobiles . . . Regular supporter of Throop Club activities . . . Likes to dance . . . Finds relaxation in gymnasium work . . . Likes to ice skate.

THEODORE WEAVER

Ted took over the job of feature editor of the Tech in his sophomore year . . . Holds position of lounge chairman of Throop Club . . . Majoring in applied chemistry . . . Member of the Chem Club . . . Ran interhouse cross country and played interhouse football . . . May be found almost any time in the Throop Club lounge playing poker.



GORDON BRUCE WEIR

President of Drama Club . . . Seven plays including feminine leads . . . Secretary of Press Club . . . Beaver . . . Two years Board of Control and Court of Traditions . . . Editor of '39-'40 Little T . . . Associate Editor of Big T . . . Honor Key . . . Member of Tau Beta Pi . . . Creator of "Willowby" . . . Smooth dancer . . . A Ricketts geologist.

JACK WHITE

Vice-president of the student body . . . Beaver . . . Last year's student body secretary . . . Representative-at-large in sophomore year . . . Studying mechanical engineering . . . Interested also in mining problems . . . Member of Dabney House . . . As Board of Control head made Tech more conscious of Honor System.

DAVID W. WHITTLESEY

One of the inseparable Whittlesey twins . . . Shares a double room with his brother in Fleming House . . . Studying mechanical engineering . . . Member of A.S.M.E. . . Comes from Portland, Oregon . . . Won frosh numeral in track . . .

JAMES W. WHITTLESEY

Complicates existence of Techmen by looking like his brother . . . Also studies mechanical engineering . . . Member of the A.S.M.E. . . Like his brother, won his numeral by stretching his legs at track in his freshman year . . . Likes to help his brother in his automotive tinkering.

CHARLES H. WILTS

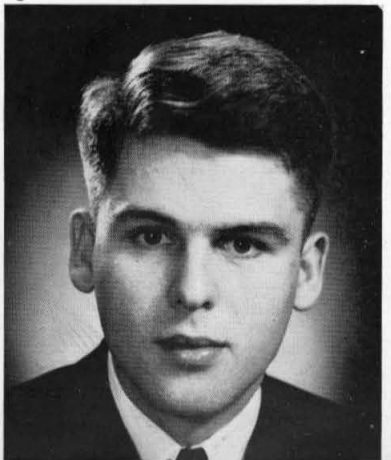
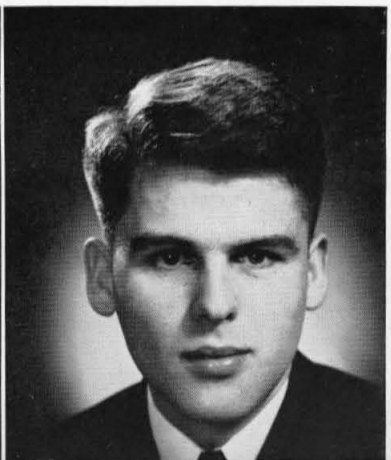
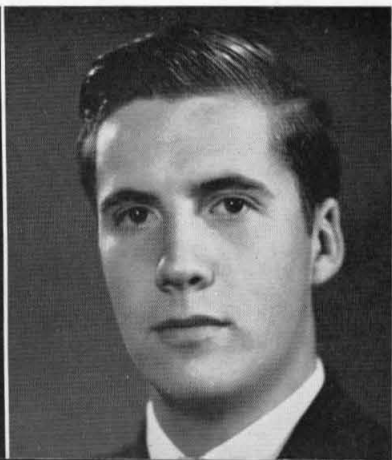
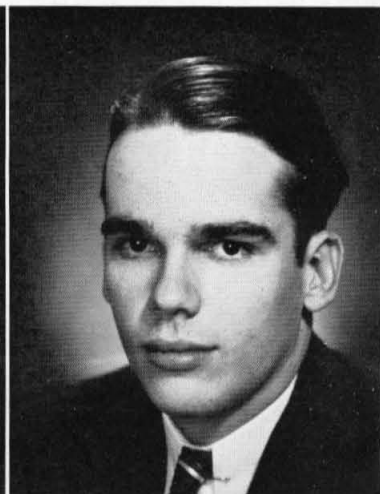
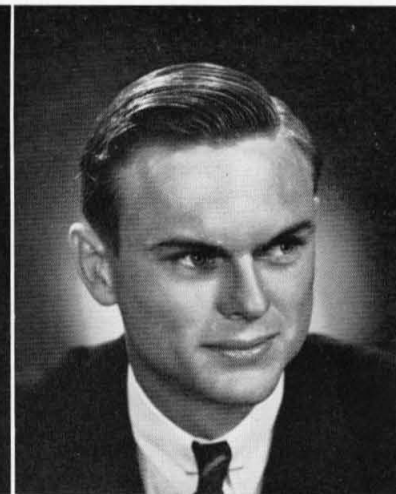
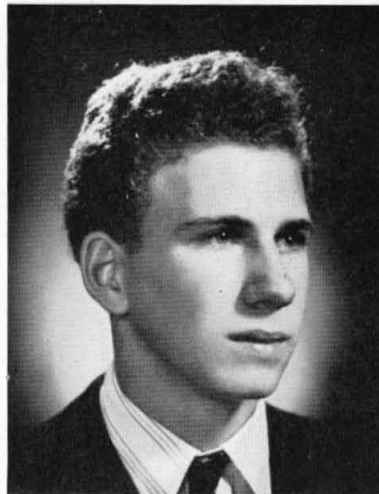
Charles transferred from Los Angeles City College to Tech in his junior year . . . Proceeded to show the "natives" how, and graduates at the top of the senior class . . . Member of Tau Beta Pi . . . His major is electrical engineering . . . Member of the A.I.E.E. . . Member of the Throop Club.

HERBERT M. WORCESTER, JR.

Herb has been one of Throop Club's regular members for four years . . . Is planning to become an aeronautical engineer . . . Member of the A.S.M.E. . . Has been out for track for four years . . . Swimming one year . . . Likes to hunt and fish . . . Also to drive his V-8 . . . Charms the women with his gay manner.

ROBERT B. YOUNG

Javelin throwing is Bob's specialty on the field . . . Varsity letter in track . . . Comes from Los Angeles . . . Majoring in mechanical engineering . . . Member of the A.S.M.E. . . Loyal member of Throop Club . . . Likes to play handball, and has entered into interhouse competition in this sport.





LOWER CLASSES

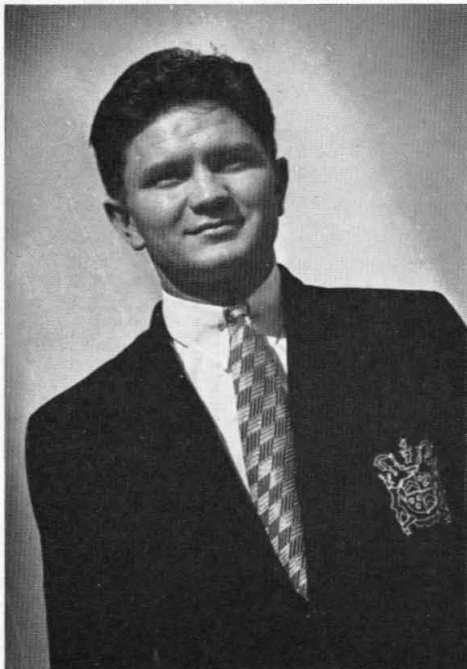
The class of '41, although losing a few of its members, chalked up another year of high achievements and activity. Prominence in important extra-curricular posts and athletics bore witness to the fact that the juniors were on the job. The editor of the California Tech, the First Representative at Large, the A.S.B. Secretary, the Rally Committee Chairman, and the Business Manager of the Big T were among the offices held by the third year men. Many of the varied varsity sports at Tech were strengthened considerably by the athletes of this class, and a large number of these men have earned one or two stripes. Five members of this class have received their honor keys, and ten are Tau Beta Pi members.

Under the efficient junior supervision, the sophs and frosh successfully battled out another Rodeo Day, and much is to be said in commendation of the spirit of sportsmanship shown throughout this carefully planned event. The highly successful junior-senior garden party was enjoyed by members of both classes, and it will long remain in their memories as a high point in their careers as Tech collegians. As co-sponsors, the juniors aided the seniors in sponsoring one of the most widely attended and most thoroughly enjoyed Proms that our student body has seen for many years.

Officers of the year were: John Barber, president, who left school at the end of the first term; Robert Bowles, vice-president; Glenn Billman, secretary; and George Bramhall, treasurer.



Robert Bowles, acting president.



Glenn Billman, secretary



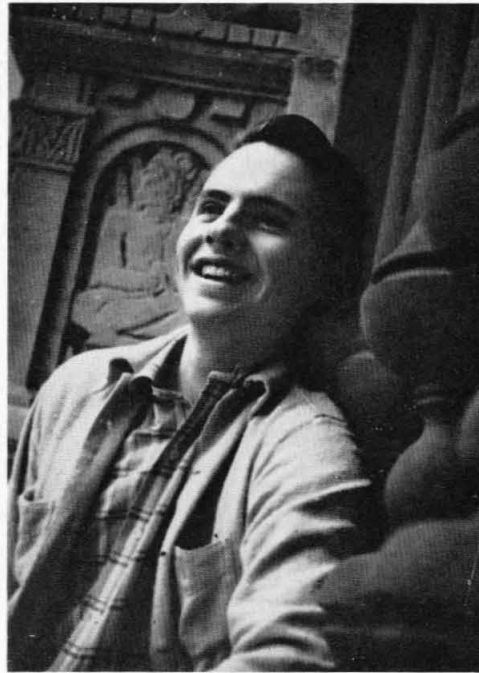
George Bramhall, treasurer

J U N I O R S

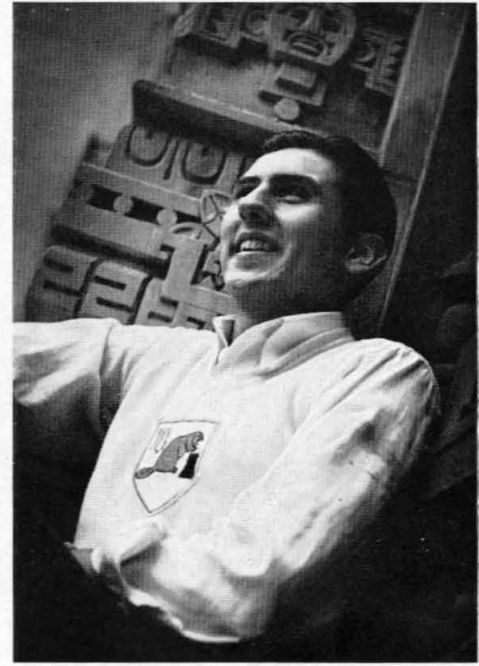
S O P H O M O R E S



Willard Hendrickson, president



Art Blight, vice-president

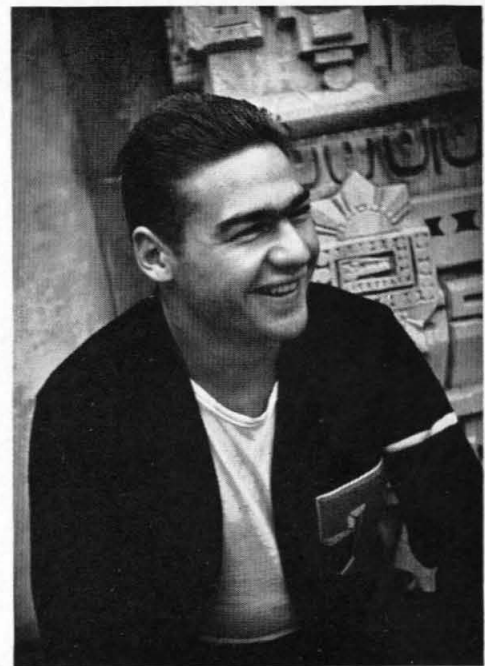


Art Schneider, secretary

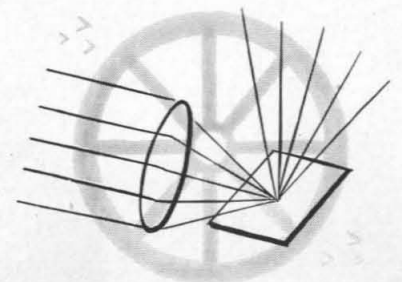
After two years at Tech, the class of '42 has become seasoned to the stiff and all-important study schedule and has begun to take a very active part in extra-curricular affairs. The sophomores' most noted athletic achievement was their bolstering of this year's track team, and a large number of the second year men who competed in this sport received their letters. Sophs were also well represented in all other sports. In the field of student government this class placed a large number of men on various committees in preparation for major offices next year. Organizations such as the Y.M.C.A., Debate Team, Drama Club, and others found sophomores well represented on their membership rolls.

The sophomore sponsored A.S.B. semi-formal dance was held at the Oakmont Country Club and proved to be a gala affair attended by a large, colorful crowd which enjoyed itself immensely. Revenging their defeat of last year, the sophomores convincingly trounced the frosh to the tune of four to one in the annual Rodeo Day at Tournament Park.

It can be said that the success of this class is largely due to its excellent leadership during the last year. At the helm of the class during this time have been Willard Hendrickson, president; Arthur Blight, vice-president; Thomas Elliott, treasurer; and Arthur Schneider, secretary.



Tom Elliott, treasurer





Amasa Bishop, president



Lawson Jones, vice-president

It is to one hundred and sixty new men that all eyes turn at the beginning of each year. Last year proved no exception, and the result was that the upperclassmen and sophomores gave nods of approval as they saw in the yearlings of 1940 potentialities of excellence in intellectual, athletic, social, and governmental activities.

Immediately after enrollment, most of the freshmen packed a few belongings and left for frosh camp, high in the mountains. Here, after three days of conferences, recreation, and rest, the frosh found many of their puzzling problems concerning college partially answered. Upon return to school, the period of initiation into the various houses began, along with an initiation into hard studying. First term climax came on the Rodeo Day where the first year men captured only one of the four events. The dance which the losers put on for the victorious sophomores was considered one of the best.

Many freshmen have taken active part in dramatics, debating, Frosh "Y", and various committees on the campus. In the field of sports, the freshmen have turned out teams which, although unexperienced, have played with determination and fighting spirit.

Leading the class have been Amasa Bishop, president; Lawson Jones, vice-president; Jack Anderson, secretary; and Paul Wittig, treasurer.

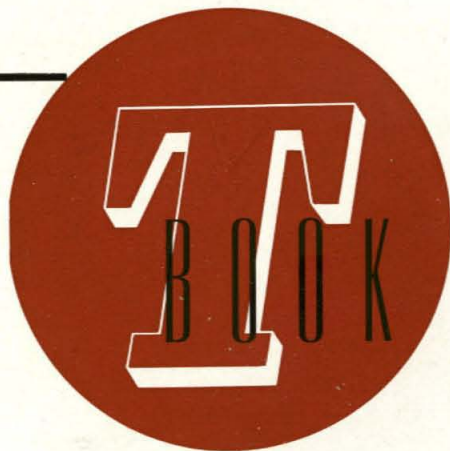


Jack Anderson, secretary



Paul Wittig, treasurer

F R E S H M E N

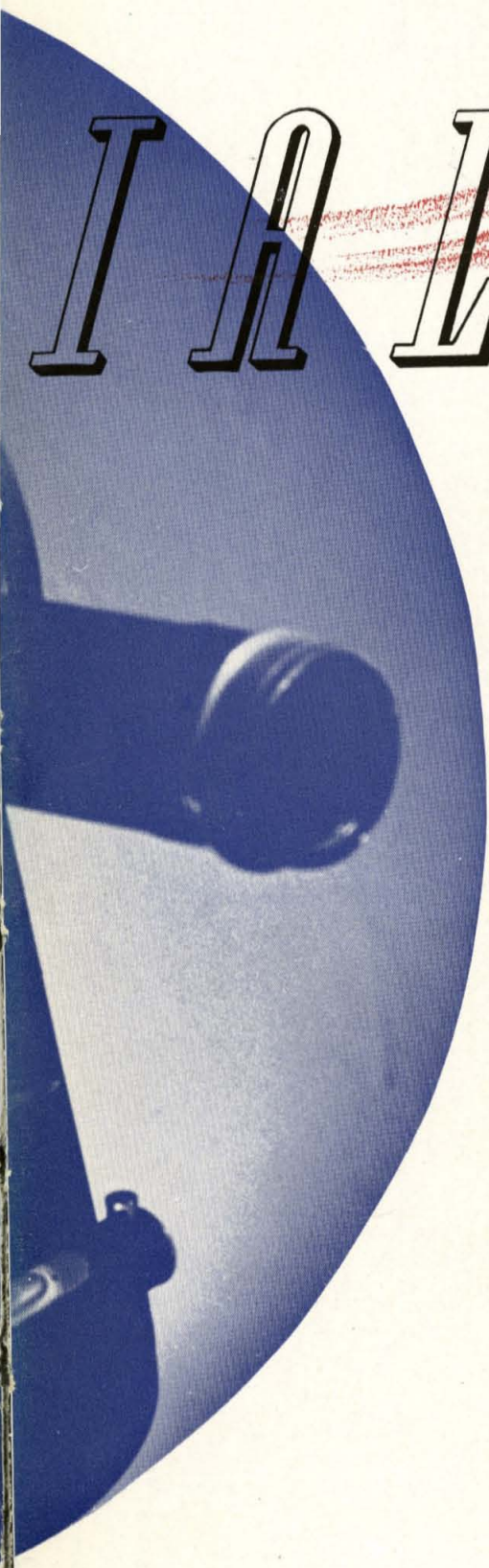


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SOLO

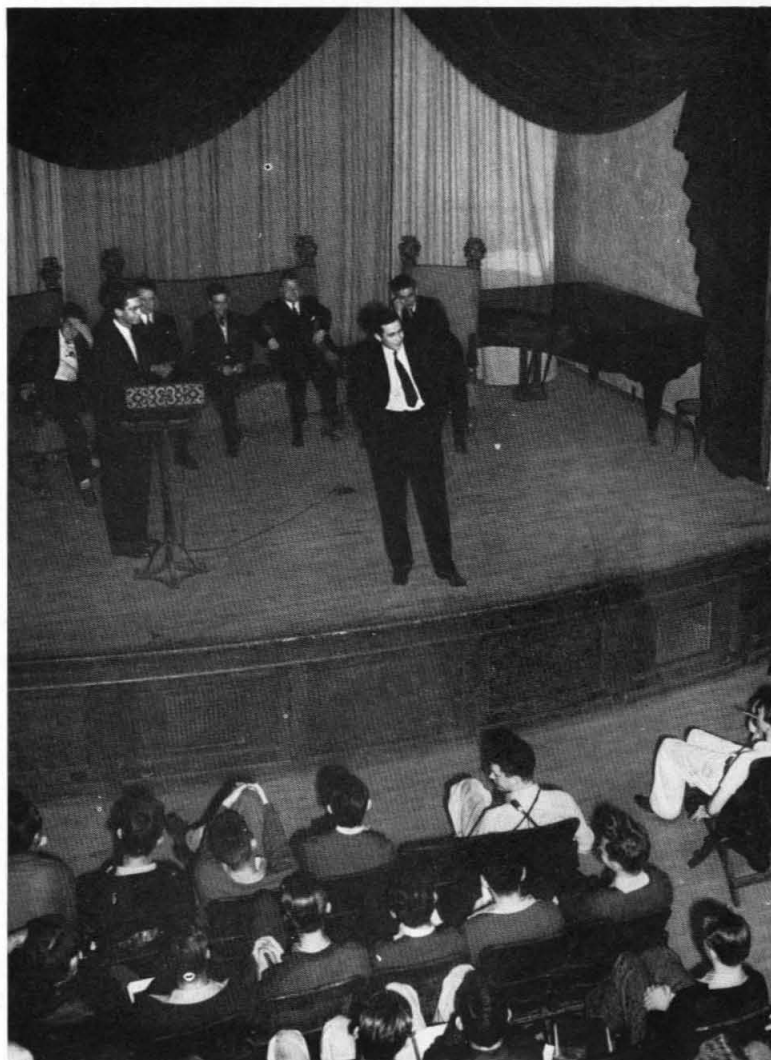




SOCIAL LIFE



Diversion from work . . . Surcease from toil
. . . Honor, activity, fun . . . Builder of life
experience . . . Molder of personality . . . Ac-
tion pattern of the Institute is shaped upon
the wheel of Social Life.



STUDENT ADMINISTRATION

D I R E C T O R S

Under the able leadership of President Lloyd Goodmanson, the Board of Directors completed a notably successful year. Increase in school spirit resulted from the untiring efforts of the board and the rally committee chairman in planning rallies. Greatest achievements were the peace pact with Oxy, more athletic awards, and the justified increase of student body dues.

Always interested in the furthering of athletics at Caltech, the board took a large step forward this year by awarding slip-over sweaters to minor sport lettermen. This, together with improvements in The California Tech, was rendered possible by the increase in student body dues. Great care was taken in the re-editing of the athletic by-laws of the student body.

Close contact with student body affairs has been maintained by the regular meetings every Tuesday night. Empowered to establish a budget, authorize expenditures, make appointments, and present awards, the board of directors actively supervises student body activities in an efficient manner.

Due to the resignations of Wallace MacKay, publicity manager; and Bill Hart, second representative; special elections were held to replace them.

Officers for the year were: Lloyd Goodmanson, president; Jack White, vice-president; Bob Spielberger, treasurer; Bob Myers, secretary; Don Campbell, athletic manager; Don Dawson, rally committee chairman; John Rubel, publicity manager; Joe Lewis, first representative; and Art Schneider, second representative.



Seated, White, vice-president; Myers, secretary; Goodmanson, president; Spielberger, treasurer; Campbell, athletic manager; Rubel, publicity manager. Standing, Schneider, second representative; Dawson, rally chairman; Lewis, first representative.



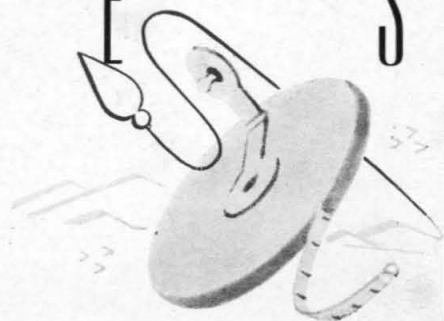
Seated, Lewis, Lakos, White, chairman; Goodmanson, Chapin, Weir. Standing, Marriott, Hicks, Gillette, Barlow, Biddison, Myers.

Prevention of infraction of the Honor System rather than punishment is the chief aim of the Board of Control. The Board of Control is a judicial body whose purpose it is to "review all cases of alleged violations of the Honor System" and to acquaint the student body with the importance of this system. The Board consists of three Seniors, three Juniors, two Sophomores, and one Freshman. The Vice-President of the Corporation is the chairman; the President of the Corporation is an ex-officio member, and the Secretary of the Corporation records the proceedings. These records are kept secret.

This year the Board of Control was very successful in handling its cases and undertakings. To carry out the principle of prevention of infringements rather than of punishments the Board published trial cases in six different issues of the California Tech and made a report in the Faculty-Student Relations Assembly in an effort to make the students more conscious of the functions of the Honor System and of the Board.

The members of the Board were: Seniors Cyd Biddison, William Marriott, and Gordon Weir; Juniors William Chapin, Joe Lewis, and Eugene Lakos; Sophomores William Hicks and Warren Gillette; Freshman Griffith Barlow; and Chairman Jack White.

J U D G E S



First Row, Rubel, publicity manager; Macartney, second representative; Chapin, vice-president. Second Row, Gillette, first representative; Miles, co-editor; Gold, rally chairman; Myers, president. Third Row, Reimers, athletic manager; Rupert, co-editor; Schneider, secretary; Bramhall, treasurer.



N E W O F F I C E R S

Emerging from a campaign which resulted in remarkably close voting, the following new officers were elected at the end of second term. Bob Myers, president; Bill Chapin, vice-president; Art Schneider, secretary; George Bramhall, treasurer; John Rubel publicity manager; George Reimers, athletic manager; Syd Gold, rally chairman; Warren Gillette and Everett Macartney, representatives at large; and Stan Rupert and John Miles, co-editors of The California Tech.



PUBLICISTS

To the publicity committee belongs the important task of securing effective publicity outside of Tech for all student body activities, athletic, social, or traditional. A re-organized committee under publicity manager John Rubel has handled the job during the past year.

Seated, Densmore, Gold, Rubel, chairman. Standing, Bramhall, Marriott, Miles.



Front Row, Reynolds, Alcock, Palmer, Nagle, Manildi, Marriott.
Back Row, Kemp, France, Brose, Clarke, Anderson.

INTERHOUSE COMMITTEE

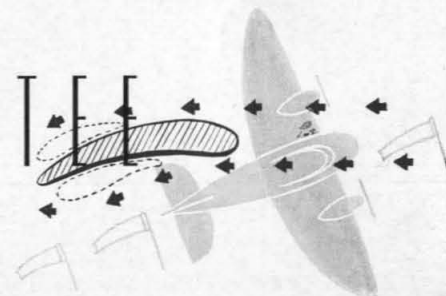
Composed of house presidents and vice-presidents, the Interhouse Committee held weekly luncheon meetings to discuss matters of common interest to the four houses and Throop Club. Members were: Joe Manildi, chairman; H. Reynolds, K. Anderson, R. Alcock, C. Palmer, D. Nagle, F. Clarke, J. Kemp, F. France, W. Marriott, and F. Brose who acted as non-voting secretary.



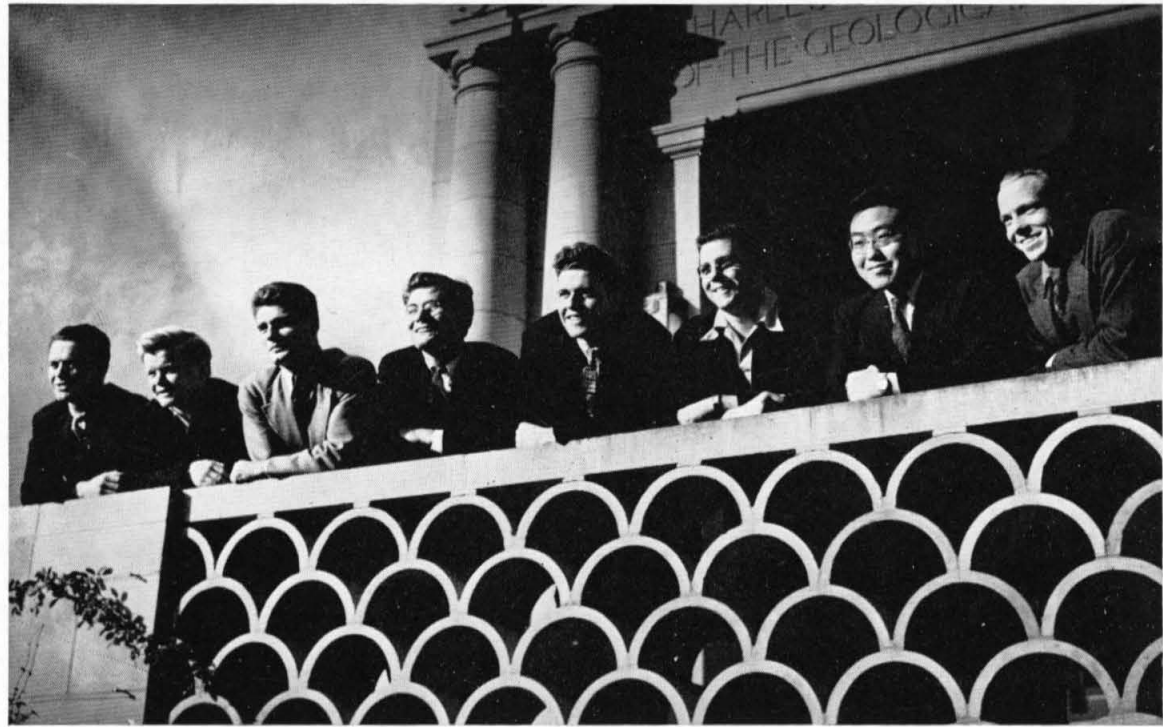
Kneeling, Kupfer, MacKay, LeGrand, chairman; Rutherford, Nyborg, Keyser.
Standing, Tomiyasu, Sandiford, Vetter, Neiswander, Janssen, Baumgarten, Anderson, Walter, Brewer.

Early in the third term, the campus was crowded by the throngs of visitors who attended Caltech's Exhibit Day. For two days, Chairman Croxall Le Grand and his large staff entertained and educated the visitors with some of the highlights of modern science and engineering.

EXHIBIT DAY COMMITTEE



ELECTION COMMITTEE



Harr, Lewis, Reimers, Marriott, Anderson, chairman: Chapin, Tomiyasu, Kupfer.

Efficiently carrying out the very important function of managing A.S.B. elections, the election committee, capably directed by Keith Anderson, speedily and accurately tabulated the results of every hotly contested political race during the year. Unheralded though its work may be, this committee and its integrity are vital factors in the success of student government.

RALLY COMMITTEE

A very successfully handled pajamarino before the Oxy game and the presentation of the King sisters and other entertainers in many interesting assemblies are accomplishments to which this year's rally committee, headed by chairman Don Dawson, can point with pride.



Kneeling, Harris, yell leader. Seated, Dawson, chairman; Marshall, Bowles, Tomiyasu.

H O N O R K E Y

Anderson
Baumgarten
Biddison



Bowles
Brewer
Campbell



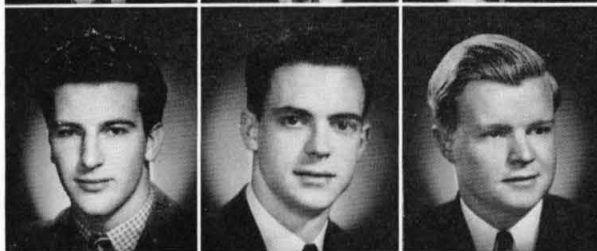
Chapin
Espy
Foster



Gold
Goodmanson
Kemp



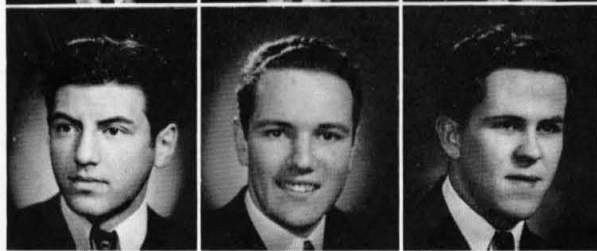
Lakos
LeGrand
Lewis



Marriott
Marshall
Miles

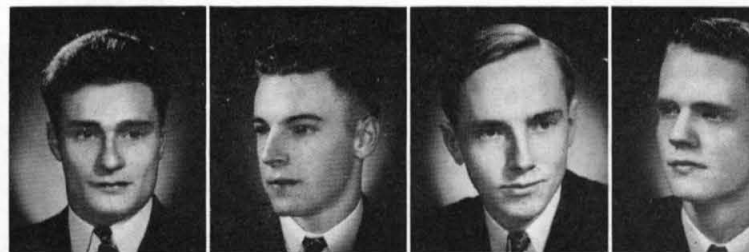


Miller
Myers
Palmer



Outstanding participation in extra-curricular activities is recognized by the Caltech Honor Key, highest honor awarded by the Associated Student Body. The key is given each year to men earning thirty or more honor points from a list of activities established by the Board of Directors and based upon the amount of work spent in service to the school.

Men also receiving Honor Keys whose pictures are not given on this page are: George Bramhall, Robert Buss, Robert Cooper, Robert Densmore, Warren Gillette, Joseph Manildi, Howard Reynolds, Arthur Schneider, and Don Walter.

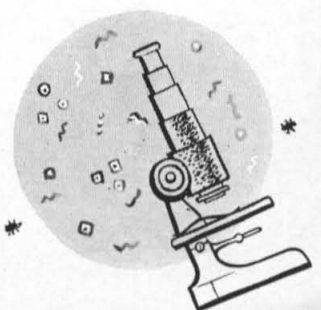


Rupert
Tobin

Scarborough
Tomiyasu

Spielberger
Weir

Reimers
Spooner
Widdoes





H O U S E S

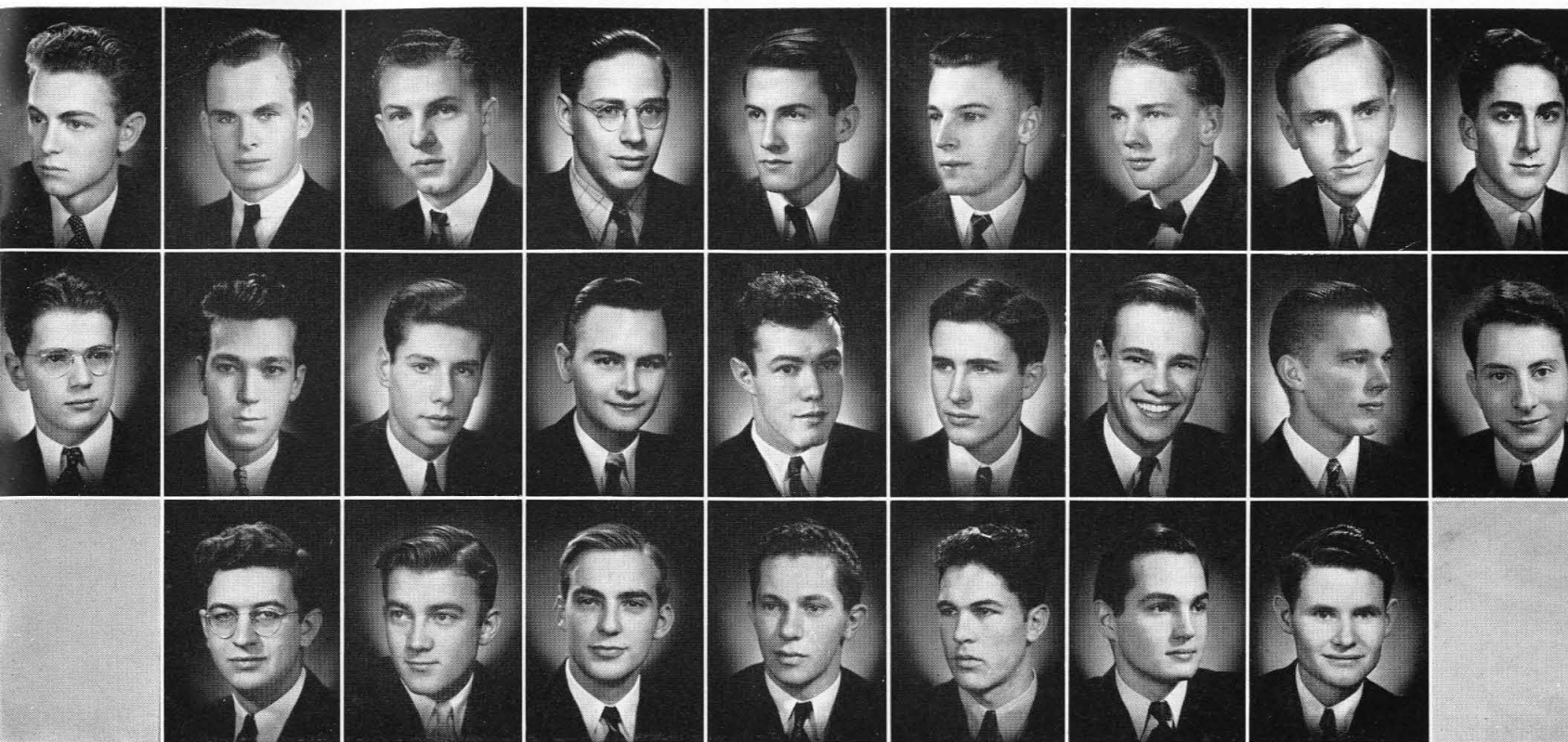


B L A C K E R H O U S E

This year Blacker House continued to show its traditional distinction in varied campus activities. In the field of sports, forensics, and other extracurricular endeavors, its members displayed their interest and in several cases their superiority. For the fourth consecutive year the Abe Lincoln trophy for forensics remained unchallenged in the possession of Blacker House.



First Row, Ayres, Bauer, Bersbach, Bracken, Buettell, Carey, Carter, Clarke. Second Row, Crane, Dickerson, Edmund, Epstein, Fahs, Farrington, Fleck, Francis. Third Row, Freehaler, McCornack, Garner, Geib, Geitz, German, Gewe, Gillings. Fourth Row, Green, Grossberg, Hall, Harris, Hines, Hubay, Janssen, Kluge. Fifth Row, Kuttler, La Bombard, Lassen, Longwell, Morgan, McWethy, McKibben, McGee. Sixth Row, Martin, R. Marshall, B. Marshall, Marsh, Manildi, Makepeace, MacRost. Seventh Row, Neiswander.



First Row, Newby, Noble, Palmer, Potts, Richardson, Rupert, Saye, Scarborough, Schureman. Second Row, Sherwin, Silvertooth, Simon, Spalding, Spikes, Steele, Steinmetz, Todd, Trauerman. Third Row, Vetter, Webster, Weir, Willits, Wilson, Wright, Acker.

Under the helpful encouragement of "Doc" Eagleson, resident associate; and Joe Manildi, house president; Blacker has made rapid strides in all lines of endeavor at Tech. Maintaining a busy program of all activities, Blacker brought to light many men of service to the Institute, both on the field of athletics and in the activities of student life.

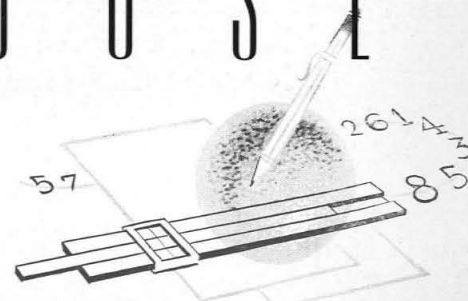
Blacker succeeded through two interhouse contests in becoming house champions in cross country and handball. No other house could hope to win over a cross-country squad which included the majority of the varsity track distance men: Art Schneider, Stan Rupert, Phil Johnson, Roy Acker, and Allen Grossberg. In handball, Paul Webster, who was also a flashy soft-ball pitcher, assisted the school handball star, Lindley Wilson, to an easy house championship.

Frosh in the house included Kenney Weir, the new yell-leader, Palmer Wright, and Don Potts, track sprinters; and Huey Simon, the man from the Swiss Alps.

Betram Scarborough, senior, will long be remembered for his accomplishments. President of Chem Club, top-notch debater, Big T reporter, band trumpeter, and varsity golfer, he naturally fell heir to an honor key. In his spare time he maintained such a grade point average that he graduates with honors.

Among the remaining seniors whom the house will lose are Marion Hines and Delman "Tiger" Spaulding. Valuable members of the Athenaeum waiting staff, the two will be missed next year.

B L A C K E R H O U S E





"Say! No fair looking yet."



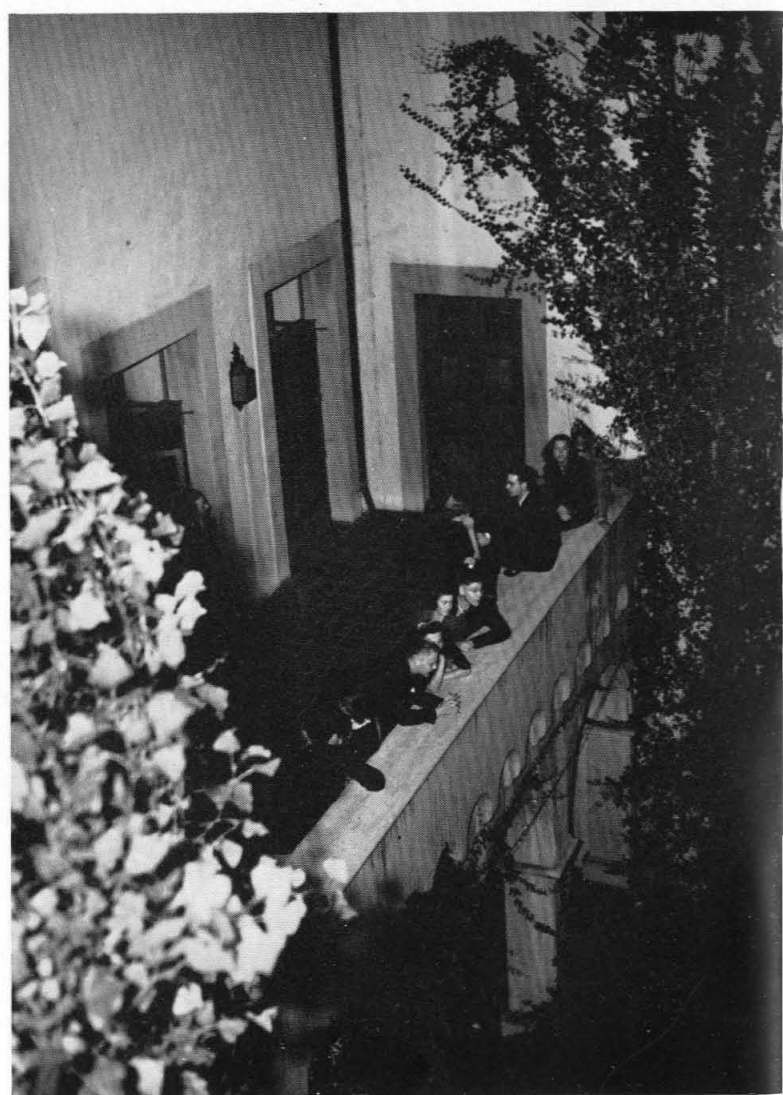
Blacker relaxes in the noon-day sun.

Under the leadership of David Steinmetz, the social committee provided the house with a full and diversified social program. The seniors, for the second time, presented their black and white formal, the juniors gave the house a beach party, and the sophomores presented an informal house dance with an under-seas theme. The annual Blacker off-campus dance was a distinctive formal at the Biltmore Bowl. Doc's party, a very informal affair which was planned and directed by Dr. Harvey Eagleson, the Blacker resident-associate, proved to be the highlight of the social program.

By virtue of a superior cross-country team, Discobolus again graced Blacker's mantle.

Blacker members were the respective presidents of Tau Beta Pi, Pi Kappa Delta, A. S. M. E., A. S. C. E., and the Chem Club. On the Board of Directors, Blacker was represented by Second Representative at Large.

The house officers for the year were Joseph Manildi, president; Frederick Clark, vice-president; Jack Palmer, treasurer; Wayne Mac Rostie, secretary; and Robert Gewe and Edward Noble, athletic managers.



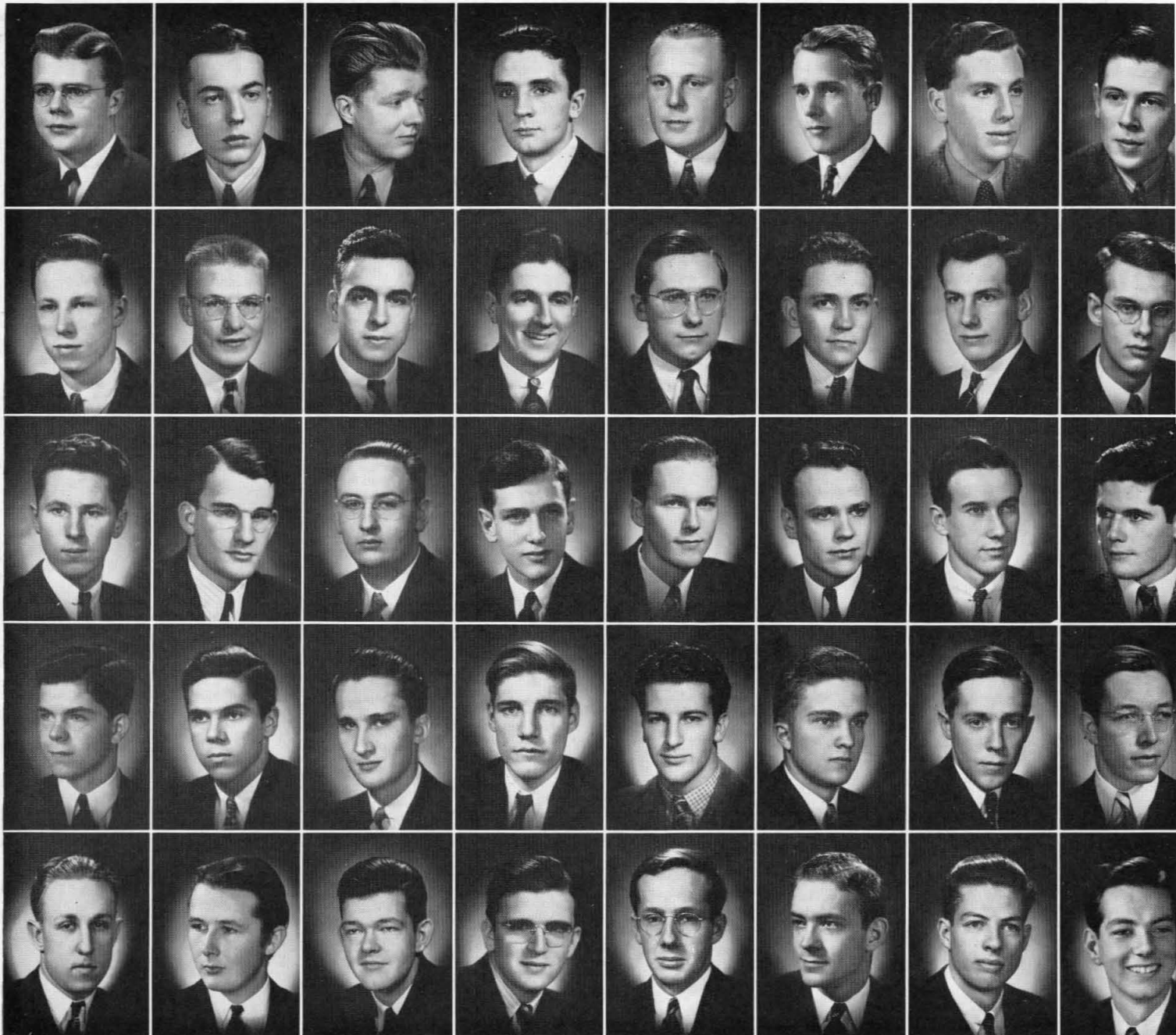
Interhouse dancers watch the changing colors of the fountain below.

BLACKER HOUSE

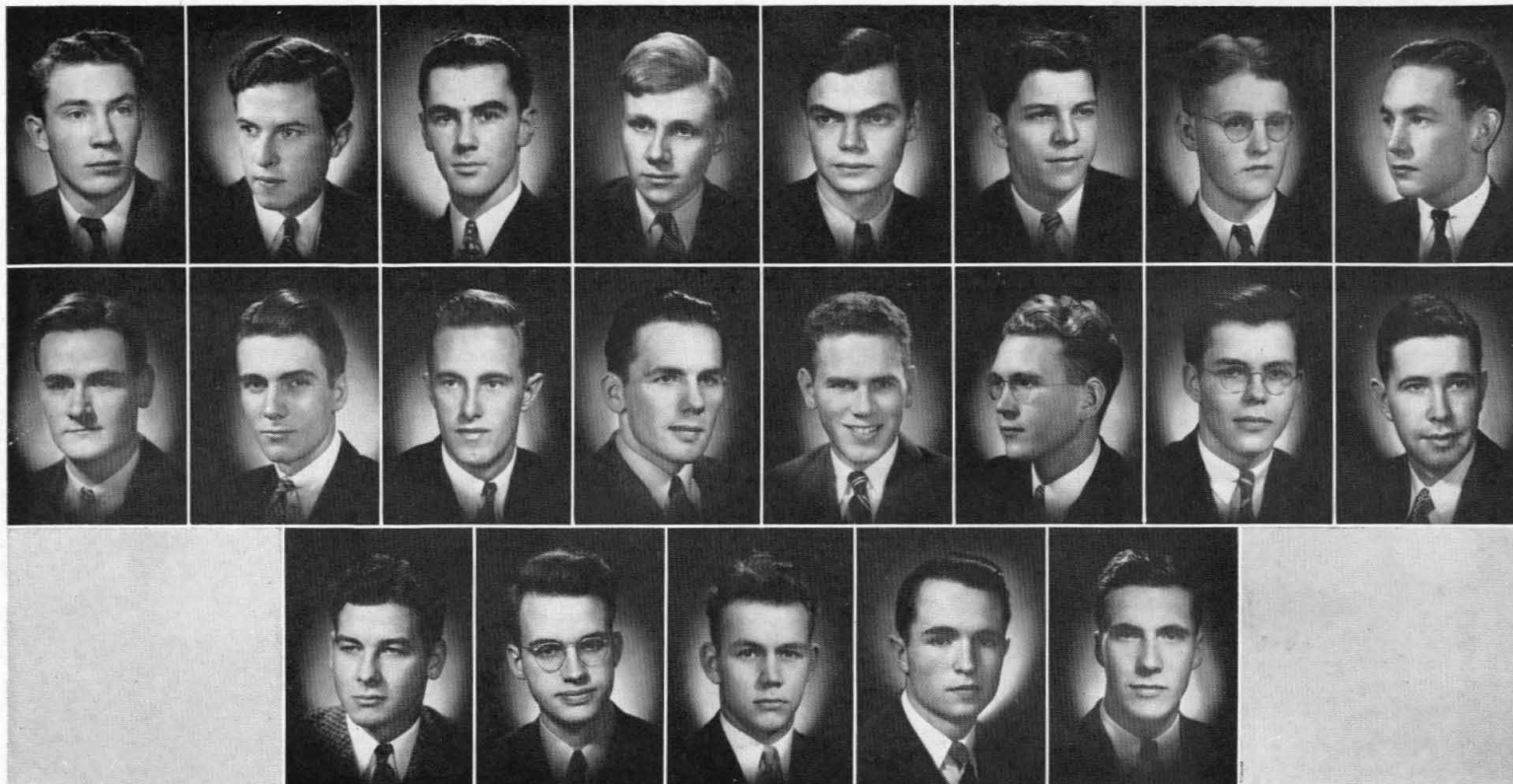


DABNEY HOUSE

This year more than ever before, Dabney House, although somewhat smaller than the other houses, has developed its enviable spirit of fellowship and cooperation and extended this feeling to all the school's activities. This, Dabney believes, is one of the finest contributions any organization can make to society.



First Row: Alcock, Allen, Arvin, Barber, Becker, Bishop, Blumenthal, Brewer. Second Row: Brose, Carlson, Carr, Corcoran, Cunningham, Douglas, Edwards, Elliott. Third Row: Fleischer, France, Giocomazzi, Grossberg, Grote, Harper, Harshaw, Head. Fourth Row: Hedrick, Hunt, Jerrens, King, Lakos, Lawrence, Lolmaugh, Lutz. Fifth Row: Merrick, Miles, Moore, Noland, Paul, Payne, Pichel, Ridland.



First Row: Rhodes, Routt, Rubel, Russell, Sabersky, Schaff, Schofield, Schubert. Second Row: Sheldon, R. Smith, W. Smith, Sohler, Stewart, Taylor, Tileston, Tyler. Third Row: Vaughn, Wallace, Waterfall, Wheelock, White.

Although Dabney is the smallest house on the campus, the men have made their number seem much larger with strong showings in athletics, extra-curricular, and curricular activities. Heading the sports list was Stan Sohler, captain-elect for next fall's varsity football team. Stan has also been prominent in house politics.

Baseball finds the soph pitcher, Lang Hedrick, and Bill "Corky" Corcoran coming from the house of green-clad boys. Dick Vaughan's 165-foot javelin thrusts and Wayne Wheelock's half-mile running were valuable additions to the varsity and frosh track teams respectively. Bob Merrick, ace soph breaststroke swimmer, entered many Southern California open aquatic events and won places in competition with USC, Fullerton Junior College stars. Arnold Grossberg headed Caltech's golf team.

The house did not escape unfortunate accidents. Paul H. Becker, 240-pound varsity center, suffered fatal head injuries in the football game with La Verne. Dick Head, prominent member of the ski team, was critically injured in an automobile collision on his way to a meet at Yosemite.

Scholastically, the house boasts of six members of the sophomore honor section: Jack Irving, John Miles, Dave Hill, Homer Jacobson, Alex Jerrems and Arnold Grossberg. Irving, puzzle shark, took a vacation from school to produce a mathematical solution to last fall's Los Angeles Examiner contest. His entry finally netted fifty dollars. During second term he constructed a puzzle which gave the student body several sleepless nights.

Dabney's most important contribution to student body government was John Rubel. Under his energetic leadership, the nearly defunct publicity committee was re-organized to a full program of activity.





Sliding down the chute, into the Hodge Podge dance.

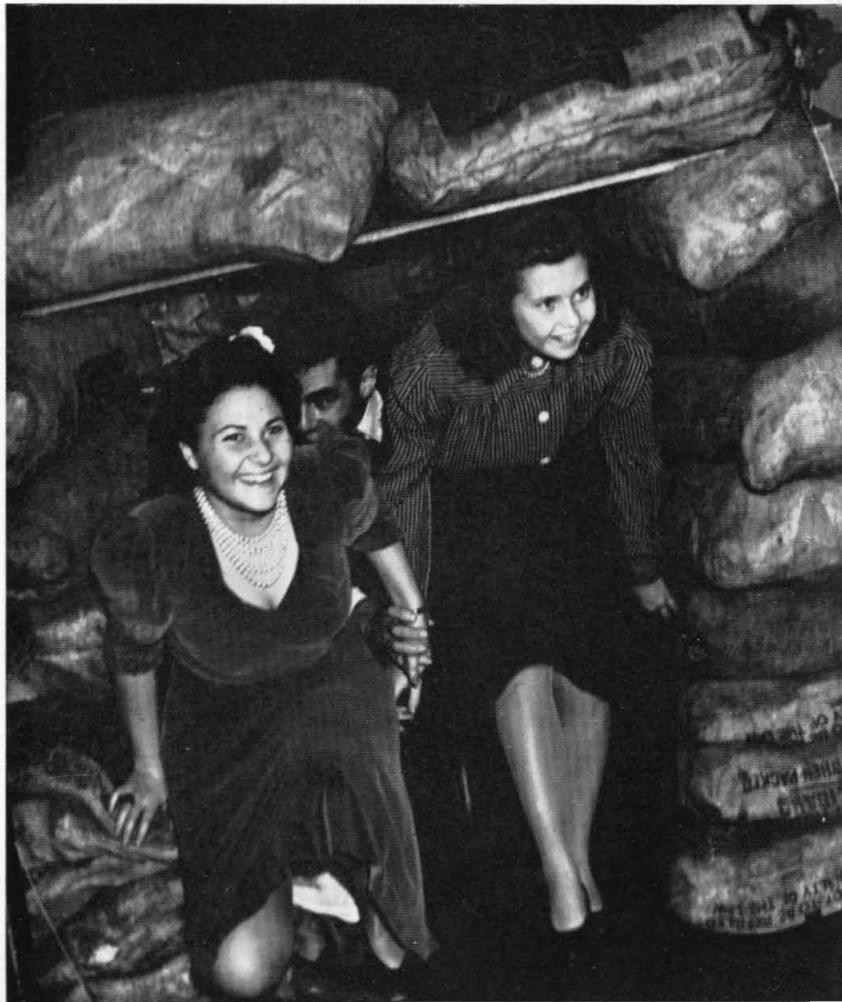
D A B N E Y H O U S E

Out of the air-raid shelter into the "black-out."

Dabney men occupied the positions of vice president and publicity manager for the student body, held places on the Board of Control and the California Tech editorial staff, bolstered the varsity football and tennis teams, chairmanned the Ski Club and the Caltech Musicale, vice-chairmanned the Y.M.C.A. and the A.S.M.E., and secretaried the Tau Beta Pi. Others ranked tops in skiing and water polo; brought Dabney honors in interhouse sports.

Joyfully received was Mrs. Dabney's gift of a well equipped game room, also the very successful Browning-Dabney week-end house party. Sadly received was Paul Becker's death following a football injury. Hilarious were the famous Hodge-Podge, the winter formal at the Mayfair, the spring garden party.

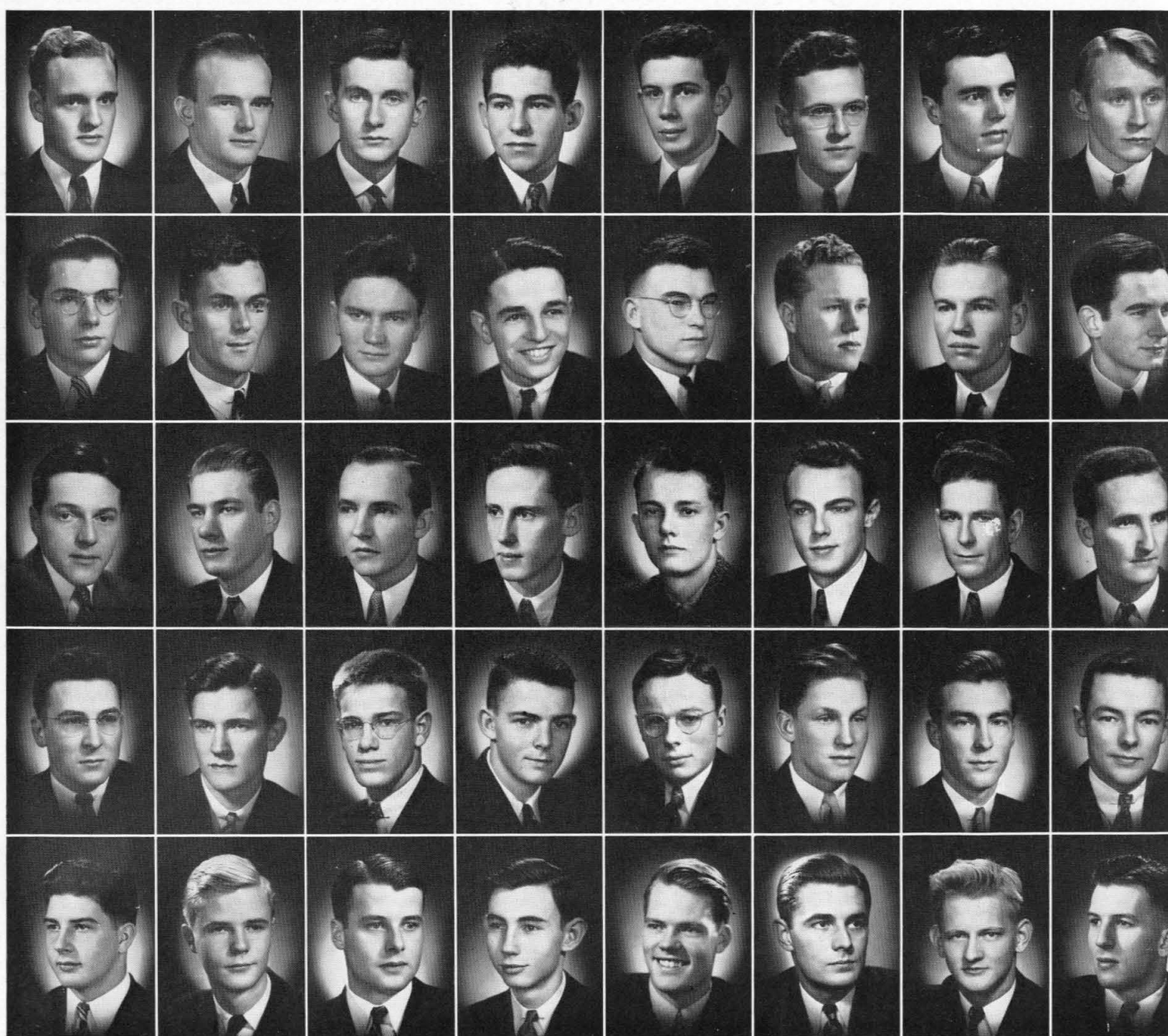
Vice President Payne, unexpectedly married, was succeeded by John Barber who equally unexpectedly abandoned science for literature. Third and final Vice President, Fin France, bestowed his Papal blessings and stayed put. On even keel sailed President Bob Alcock, Secretary A. Brewer, Treasurer John Harper, Athletic Manager "everybody out" Bill Stewart, and Librarian Fred Brose.



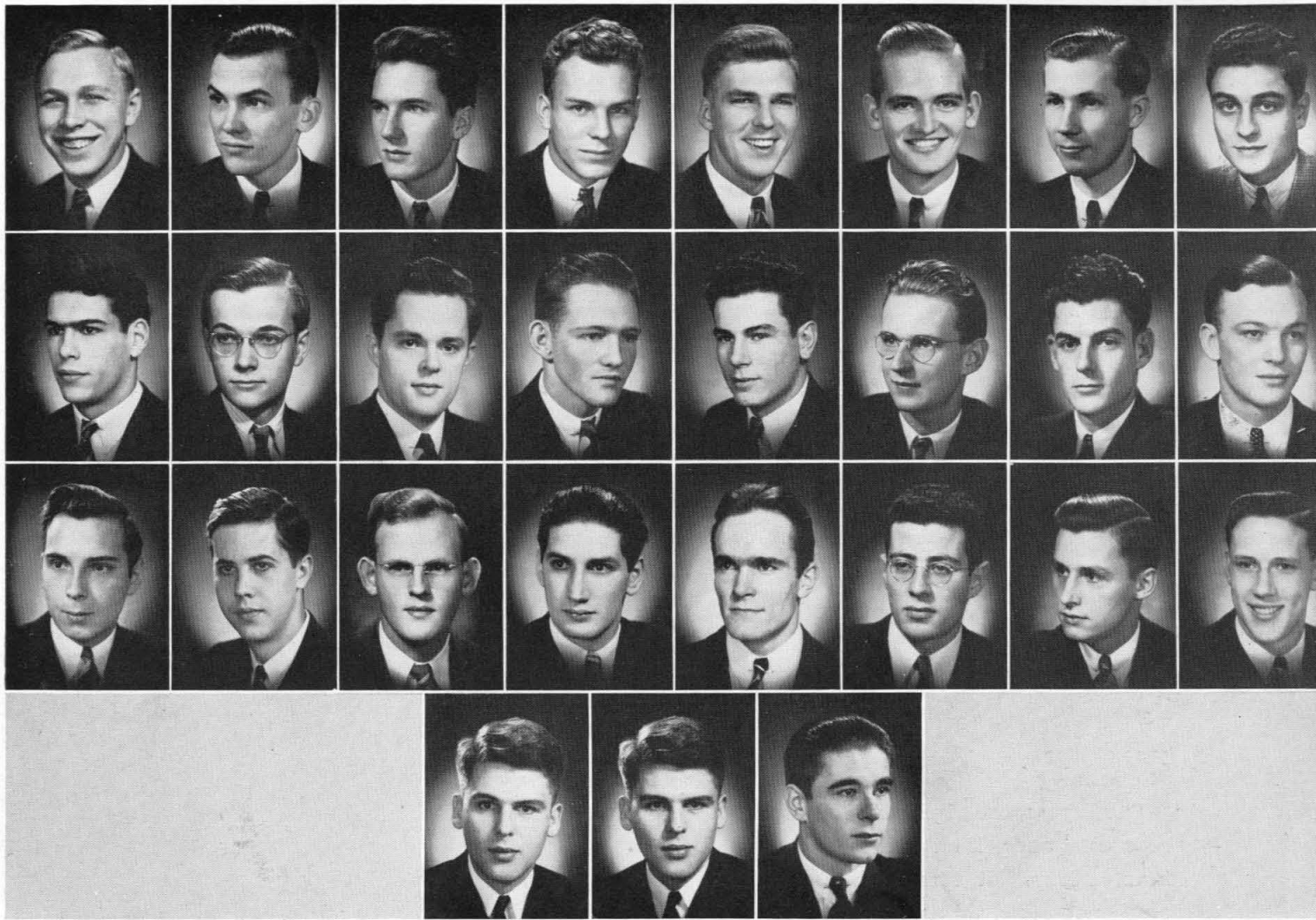


FLEMING HOUSE

For the past six years Fleming has been awarded the coveted Interhouse Athletic Trophy, indicating the interests of this house. Fleming men socialize in water-fights, house smokers, formal gatherings, dances, and studying. Eight Tau Betas add to the house scholastic prestige. Deus ex machina, Vic Veysey, wonders why the Lord made the night so loud. Dominant tone of the Fleming year has been its successful support of athletics. The entire house has maintained great enthusiasm in intercollegiate and interhouse sports—sending its men to the field with a fighting spirit which has become a watchword of the Fleming forces. House enthusiasm has extended into every kind of house activity. While supporting their social program with typical zeal, Fleming men have always been known for their ability to keep amused whether at an official house function or otherwise.



First Row: Abraham, Albrecht, Alford, Allen, Alpert, Anderson, Bashor, Beckstead. Second Row: Bennett, Biddison, Billman, Bishop, Blayney, Bowles, Bragg, Bramhall. Third Row: Brewer, Brockman, Brown, Bruce, Calkins, Capron, Cleveland, Curtis. Fourth Row: Davis, Dewdney, Dobbins, Fair, Fox, Frost, Gayer, Gold. Fifth Row: Grainer, Greenwood, Guillou, Hassard, Herman, Hohweiser, Horn, Ingersoll.



First Row: Johnson, Jones, Jongeneel, Kemp, Lind, Loeffler, Langerud, Main. Second Row: McClain, Merritt, Mickley, Pickles, Proctor, Rolf, Stevens, Stroud. Third Row: Svendsen, Thayer, Thompson, Urbach, Van Dyke, Wahrhaftig, Wasem, Weller. Fourth Row: J. Whittlesey, D. Whittlesey, Widdoes.

The Fleming year has been a gay and happy one. Its athletic standing has been maintained under the fierce onslaught of the other houses in the keenest competitive meets. Its membership has been increased by acquisition of some of the best athletes of the freshman class. Headed by its very enthusiastic and active president, Keith Anderson, whose duties also included the presidency of the Senior Class, Fleming has taken an active part in Institute life. Also prominent on its membership rolls were Cyd Biddison, who served Tech well in football and led the Beavers during the past year; Bob Bowles, who was acting president of the Junior class and newly elected Fleming president for next year; George Bramhall, newly elected treasurer of the Associated Student Body; Syd Gold, who assumes the position of Rally Committee Chairman, increasing Fleming's representation on the Board of Directors; and Lawrence "Duck" Widdoes whose service as Business Manager of this book made possible the issuance of a 1940 Big T. Fleming has supported publications well, for it includes in its membership two past editors; Keith Anderson, who headed The California Tech in his sophomore year and Harold Mickley, whose 1939 Big T set a standard toward which the editors of this publication have had to work. Serving as Pope of Fleming House, versatile Jean Stevens played so active a part in this capacity that he extended his sphere of influence to the entire student body at election time, adding an air of sanctity and dignity to the usually boisterous "steam tunnel election rally." Largely through the instrumentality of the Stevens' drama circle the steps of Throop were the scene of a pageant which could not fail to move the Tech men, even though it did not clarify the vital issues of the election.

F L E M I N G H O U S E



Fleming's iron men gain a tan.

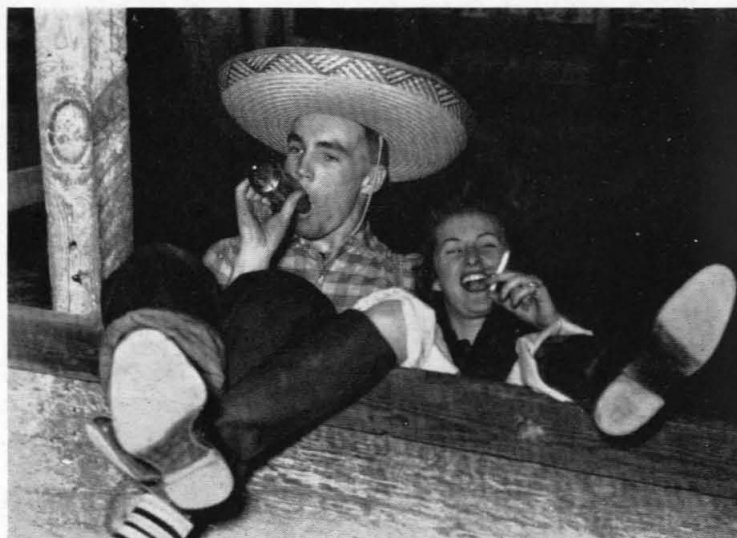
Varsity ratings and ties for first in house baseball, football, indicate Fleming will finish in upper brackets of trophy contenders. An effort is always made in Fleming to counter-balance any too-too-athletic tendencies with a fast-moving social program.

This year, the highlights . . . Five Houses dance, first term; second term, Formal at Annandale; Surf and Sand Day, third term. Supplementing this: Snow Party with Snow Queens of Claremont, Freshman Dance effort, and dinner-record-dance after Redlands game.

WARD BOSS of Fleming's vast political machine is six-foot-six, much presidented, K. A. Anderson. WARD HEELERS . . . include Ironman James Kemp, V. P.; Glenn "Minute Man" Billman, Sec'y; "Portland Bill" Ingersoll, Treas.; "Mouthpiece" Duck Widdoes, entertainment chairman; "Triggerman" Bob Bowles puts on the heat for athletic interest; George Bramhall spreads the festive camel-skin for visiting potentates. Non-sectarian J. B. Stevens has filled the position of Pope.



Hallelujah! Fleming's first in line for the movie



"The pause that refreshes" at the Fleming-Ricketts barn dance.

F L E M I N G H O U S E

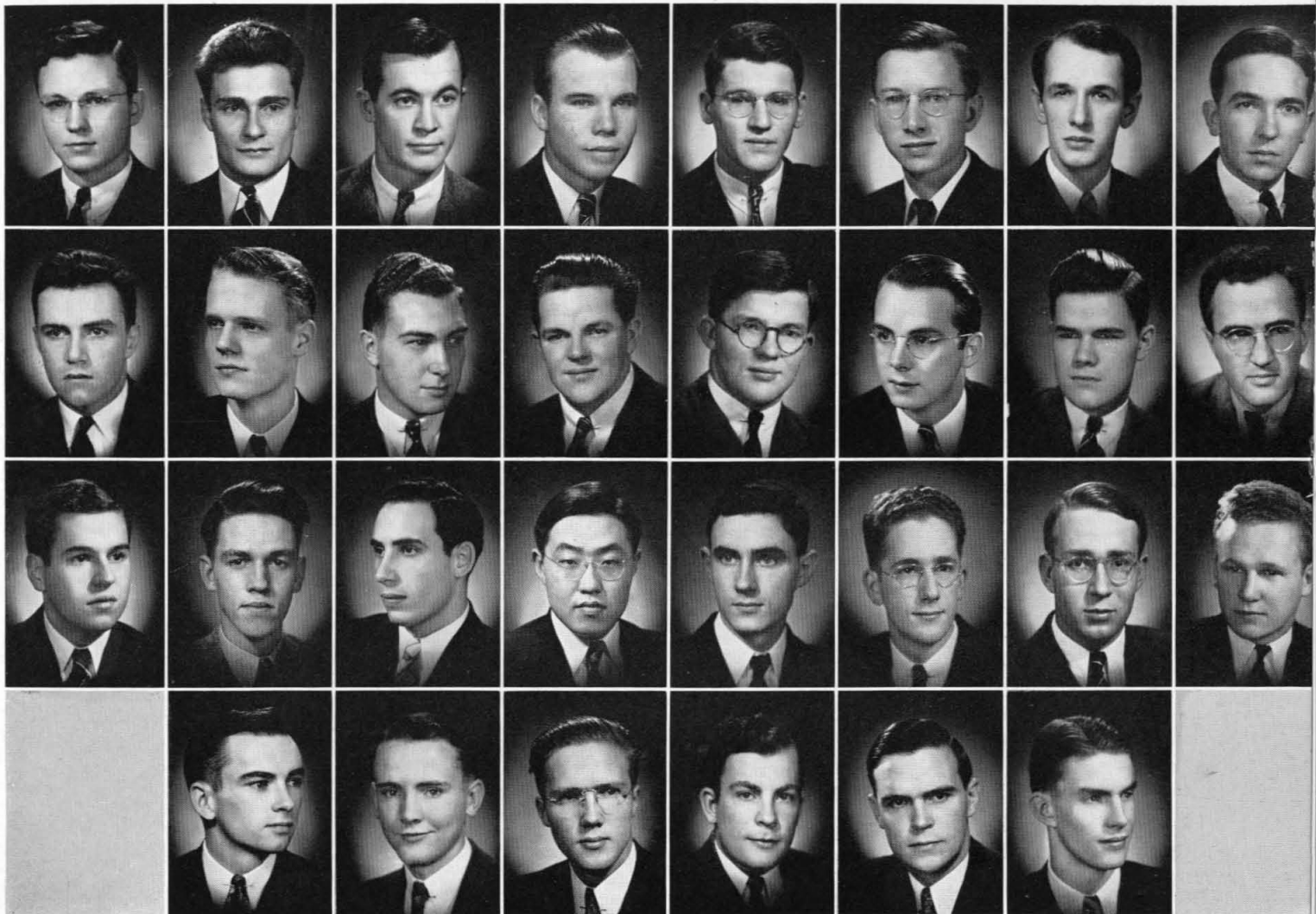


RICKETTS HOUSE

This past year Ricketts continued to maintain its prominence in activities at California Tech—a prominence due to its wholehearted participation in widespread fields of endeavor. It maintained a good balance of scholastic, athletic, social, and political activities and attracted men of diversified interests thus promoting well-roundedness and fellowship among all members of the House.



First Row, Adams, Anderson, Arnold, Bacon, Bangs, Bennett, Benson, Bewley. Second Row, Chalmers, Chapin, Cox, Dessel, Espy, Felberg, Fiul, Foster. Third Row, Frey, Goodmanson, Granicher, Greenhalgh, Griffith, Halpenny, Harr, Harris. Fourth Row, Haupt, Hendrickson, Hicks, Holser, J. Jones, L. Jones, Kashiwabara, Kennedy. Fifth Row, Keyser, Kingsmill, Kott, Lee, Le Grand, LeVine, Lewis, Macartney. Sixth Row, MacKay, McDougall, Meyer, Myers, Nagle, Nakada, Nyborg, Partlow.



First Row, Paul, Reimers, Reynolds, Rominger, Rutherford, Sandiford, Schrader, Sigworth. Second Row, Snodgrass, Spielberger, Spooner, D. Staatz, M. Staatz, Stadum, Staley, Stone. Third Row, Stowell, Tenny, Tobin, Tomiyasu, Townsend, Turner, Van Ness, Walters. Fourth Row, Weir, Whitehill, Williamson, Wittig, D. Young, Young.

A strange phenomenon of house life this year was the almost complete cessation of warfare on the Ricketts front. The barrages of the past seem to have disappeared with the rowdies of the past, and only an occasional bomb exploded to remind one of the glories of the past. Even that prince of mischief-makers, Wallace MacKay, has been unusually peaceful of late.

A familiar sound about the court at almost any hour was the song of the "Chumstaffel" immediately followed by howls both of anger and approval from windows about the court.

Bob Densmore, the sophomore speedball, is the most unsocial member of the house. Although prominent in many activities, he had the remarkable faculty of failing to turn up when group pictures were taken.

The Ricketts version of "The Hound of the Baskervilles" is one of the inhabitants of Ellery Stowell's room. This fierce beast could often be seen about the campus, and a glimpse of his terrifying countenance was enough to strike fear into the stoutest heart.

Fortunate, indeed, was the choice of freshmen this year. Among the class of '43 were Jack Anderson, the All-American boy, "Roundo" Macartney, "Mac" McDougall, and "Strongheart" Le Vine.

Onick Vartikian was a familiar sight flinging the more powerful of the rowdies deftly over his shoulder into the fireplace. The India Rubber Man suffered a crushing defeat at the hands of Onick, who was assisted by Cal Long, George Griffith, Mistah Hicks, and a few other Ricketts stalwarts.

R I C K E T T S H O U S E

Ricketts frosh take a preparatory course in How to Put Out a Fire.



Half of those on campus wearing honor keys were Ricketts men. Ricketts also claimed a majority of the men on the Board of Directors, including the student body president; while four out of ten Board of Control members, four out of six editors of campus publications, a majority of the Press Club, seven Tau Beta Pi members, and the basketball and football captains were members of the House.

Traditionally Ricketts was socially prominent. Highlights of the year were the Senior Dance and an exchange dance with Clark Hall, Scripps; while the Ricketts Formal at the Beverly Wilshire and the Spring Dance were again "the socials" of the year. A barn dance with Fleming proved to be a success, while the Throop-Ricketts dance provided smooth entertainment.

Guiding the house in its activities this year were Howard Reynolds, president; Darragh Nagle, vice-president; Willard Hendrickson, secretary; Yosh Nakada, treasurer; and Francis Greenhalgh, athletic manager.

Ricketts frosh bring lovely movie starlet Helen Parrish to dinner.



The King Sisters have lunch at Ricketts and Blacker



R I C K E T T S H O U S E

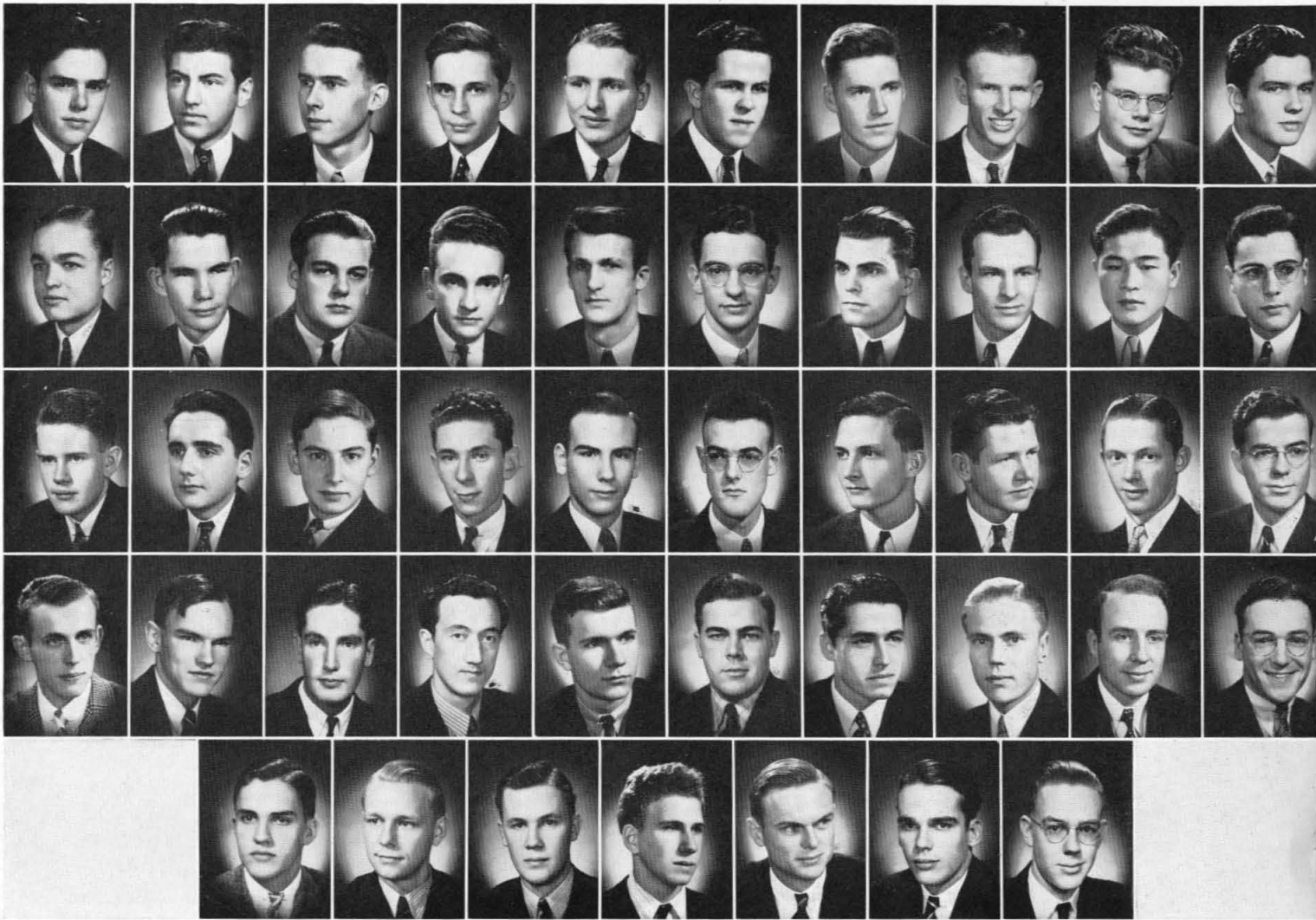


T H R O O P C L U B

Throop lounge is the home on the campus for the nonresident students of Caltech. It has an attractive library of books, daily newspapers, and records which are played on the radio-phonograph in the lounge. The various games and other attractions which are offered daily to everyone make it a center of college life.



First Row: Adams, Anderson, Anspach, Ashbrook, Atkinson, Barber, Barlow, Baumgarten, Beebe, Beers. Second Row: Berlot, Billmeyer, Bradley, Brandt, Brooks, Brown, Brown, Brumfield, Brunner, Bucherman. Third Row: Bunker, Burton, Campbell, Carson, Casserley, Cooper, Critschlow, Daams, Dawson, Day. Fourth Row: Dazey, Drake, Elliott, Ellis, Elmer, Eusey, Faust, Flavell, Fleming, Frank-Jones. Fifth Row: Franzini, Galesky, Ganey, Glassco, Glassco, Glover, Grigg, Grimm, Harlan, Hatcher. Sixth Row: B. Head, Hodder, Howard, Howton, Jacobs, J. Jones, Jones, Kohl, Kupfer, Larson. Seventh Row: Lawrence, Lesser, Love, Maguire, Marriott, Mayer, French, Mead, R. Mayer, A. Mayer.

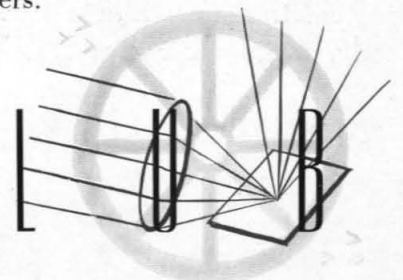


First Row: Dazey, Miller, Nevill, Oder, Oldson, Palmer, Partch, Pierson, Pettit, Ploeser. Second Row: Powlesland, Quarles, Rambo, Ray, Richardson, Robinson, Rose, Rogers, Sakai, Samuel. Third Row: Sandell, Savitt, Schamberg, Seegman, Smith, Snyder, Sturdevant, Sullivan, Tedrick, Thomas. Fourth Row: Tielrooy, True, Veronda, Vey, Vordermark, Wagner, Walker, Watson, Wayman, Weaver. Fifth Row: Wheeler, Wilcox, Wilmothn, Wilts, Young, Zebb.

Dominating the social life of the off-campus Tech man, the Throop Club, during its past year, has filled a vital role in student activities. Under the energetic leadership of Charles Palmer, the membership has taken an increasingly more active part in building up traditions at the Institute, in infusing spirit into interhouse athletics, and in maintaining a well balanced program of both athletic and social events. Center of the Throop Club life is the lounge, which was built and furnished by the members only a few years ago. Here, before the great fireplace, the members find time to relax from the toils of study and to enjoy the companionship of their fellow students. Here, too, are found banquets and dinners at which the members have the pleasure of listening to visiting speakers and of enjoying an evening together. Among the more notable of the visitors this year was Mrs. C. Brooks Fry at whose seminar in Los Angeles several challenging comments concerning Tech men were made. At this time the men of Throop Club had further opportunity for discussion of the social life at Caltech and enjoyed an excellent dinner meeting.

The entire program of the Throop Club has been remarkable in that the officers have been perpetually faced with the difficulties of bringing together a group of men who live scattered over all parts of Southern California. That they have achieved a success in their activities which equals that of any of the student houses is a tribute to the organizing ability and the genuine enthusiasm of their officers.

T H R O O P C





A large Interhouse crowd shuffles over Throop's fine floor.

T H R O O P C L U B



Several couples sit out a dance at the Throop formal.

Although the Throop Club is one of the youngest organizations, it has held its place as one of the most active groups on the campus. There were many social activities, ranging from formal dances to stag smokers, the most outstanding of which were off-campus dances with both Occidental and Scripps Colleges, a formal dance given by the Throop Associates at the Valley Hunt Club, and an overnight house-party in the mountains.

Even though the Throop Club members are not able to give as much serious attention to sports as are the house members, the Club won its share of the interhouse contests this year, placing high and giving all opponents real opposition.

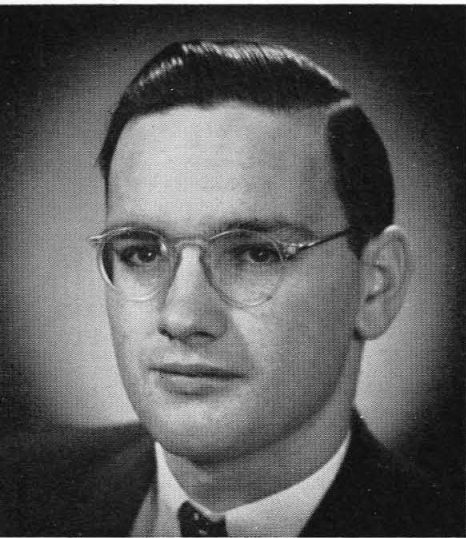
The officers of Throop Club this year were: Charles Palmer, president; Robert Anderson and Bill Marriott, each one-half year as vice-president; Stanley Mitchell, secretary; Erwin Baumgarten, treasurer; David Elmer, athletic manager; Frank Caserly, social chairman; Bill Wagner, lounge chairman; David Shisler, publicity manager, serving for two terms, Ken Anspach serving the third.



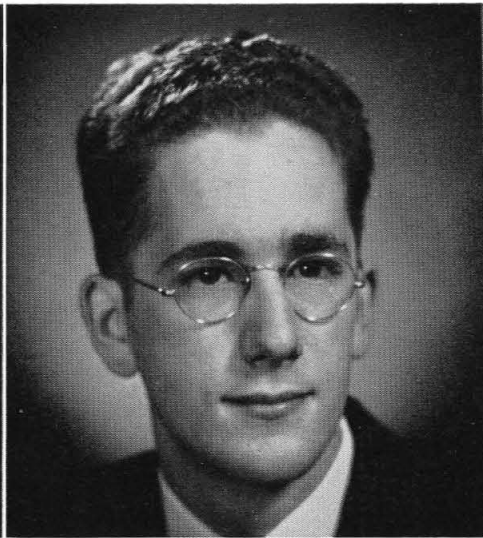
Mrs. C. Brooks Fry tells Throop dinner meeting "All men are misunderstood."



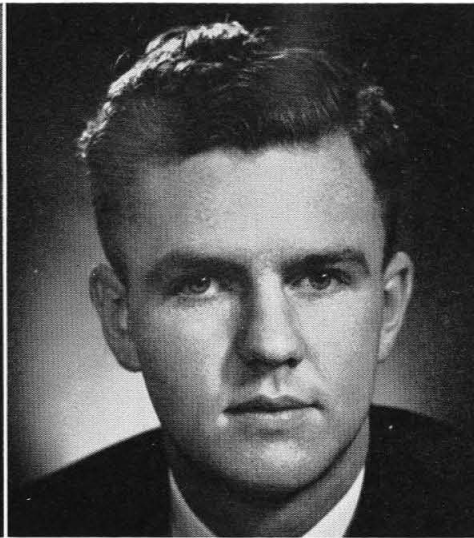
P U B L I C A T I O N S



Glyn Frank-Jones, Editor



Bill Turner, Editor



Walter Larson, Business Manager

T H E

Under the competent guidance of Bill Turner and Glyn Frank-Jones, co-editors of the weekly newspaper, the California Tech has enjoyed one of its most successful years. Bill was responsible for many improvements in style of the paper, and organization of the staff. After his resignation as co-editor in January, Robert Routt became managing editor.

A great deal of credit goes to Bill Chapin, as sports editor, and to Bob Densmore, assistant sports editor.

The post of news editor has been passed down the line. Art Schneider had to relinquish the news editorship when he was elected second representative. Robert Routt then took over for a term, to be succeeded by Stan Rupert.

Dawkins Espy and H. E. Williamson have alternately been feature editor. Dawkins will be remembered for his famous "Tid-Bits", weekly "joke" column.



Next year's editors, John Miles and Stan Rupert, discuss ideas for future editions of the Tech.

C A L I F O R N I A T E C H

Howard Baller is to be congratulated on his excellent work as copy editor. Commendation is due Sam Morgan for his skillfully written articles. Other contributions were submitted by men too numerous to mention, but whose cooperation was invaluable.

Walt Larson has very ably handled the traditionally difficult job of business manager, and has shown that the California Tech can be run without a deficit. Larson was assisted by Syd Gold, and collections were taken care of by John F. McClain.

Under the leadership of men trained in newspaper work in the Institute's own journalism course under the kindly criticism of Professor MacMinn, the California Tech has filled a truly essential position in the Tech picture, serving to unite both students and faculty, and to provide that necessary outlet for the non-technical thoughts of the Tech man.



Seated, Routt, managing editor; Frank-Jones, editor; Weir, Miller, assistant editor; Chapin, sports editor. Standing, Rupert, news editor; Spooner, Bowles, Gold, assistant business manager; Marshall, associate news editor; Schneider, Neiswander, proof editor; Williamson, feature editor; Turner, editor.

B I G T S T A F F

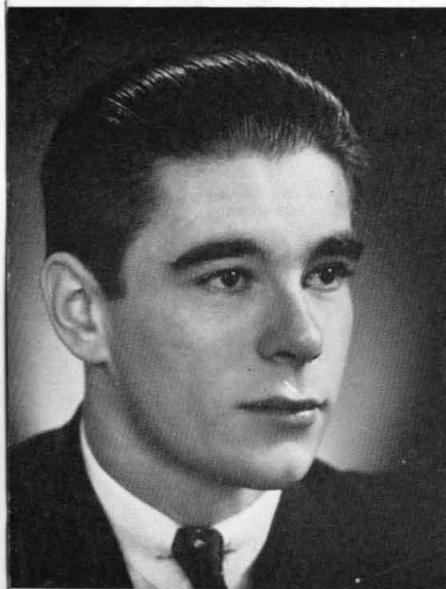
Chroniclers of the life story of a year, the editors of the 1940 Big T looked to the Institute for inspiration—found it in the laboratories and the men who worked there, in the personalities who probed the atoms and scanned the skies, and in the men yet students here who have developed that strange by-product of scientific education—the Tech Way of Life.

Responsibility for this volume centered in co-editors William Spooner and Bernard Tobin, elected by the Associated Student Body in the spring of 1939. Facing the problem of publishing a book of scientific theme expressed in terms of art, they selected the noted Pasadena photographer Midori; whose enthusiastic and untiring work is evident in his photographs. Financial mentor was Lawrence Widdoes, whose difficult task as business manager it was to balance the budget. Bearing the great burden of the work was the staff—ceaselessly writing, arranging, and financing the book.

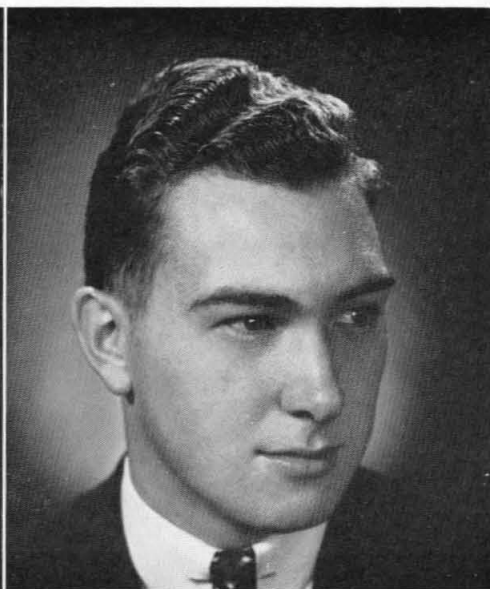
Writing the senior section, versatile Gordon Weir, associate editor, spent numerous hours at his typewriter as did house editor Howard Reynolds. Bob Densmore, efficient division editor for organizations, collected all club information; while student body activities found Syd Gold as their recorder.



Photographic Staff. Tobin, co-editor; Tomiyasu, photographic assistant; Staley, photographic editor; Nakada, photographic assistant.



L. Widdoes, Business Manager



William Spooner, Editor



Bernard Tobin, Editor

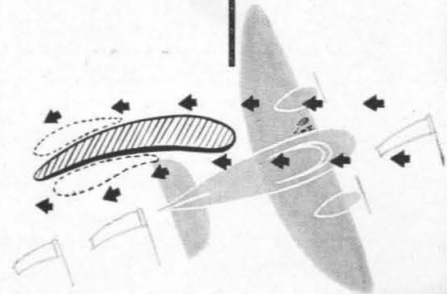
Editorial Staff. *Front Row*, Gold, activities editor; Spooner, editor; Weir, associate editor; Paul, copy editor; Chapin, sports editor. *Back Row*, Neiswander, editorial assistant; Spielberger, editorial assistant; Turner, academic editor.



California Tech editor Bill Turner revealed the academic side of the Institute. Classes were reviewed by George Harr and John A. Jones; while to Bill Chapin, sports scribe for the Tech, the Big T owes thanks for its graphic, accurate sports section. To assure complete coverage of all campus events, photographic editor Bob Staley continually worried over picture plans; while copy owes its accuracy to proof editor Bob Buss, and to copy editors Al Paul and Harrison Sigworth.

Sincere gratitude goes to the Associated Student Body which wholeheartedly supported this publication and offered the editors encouragement in times of distress. It is the sincere hope of the entire Big T staff that the confidence placed in it has been justified.

T H E B I G T

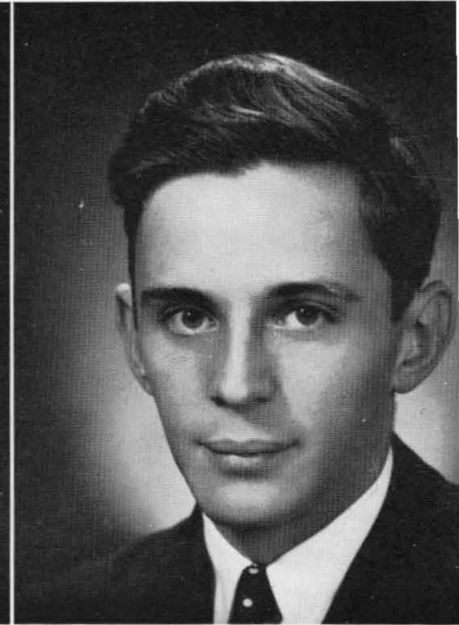


T H E L I T T L E T

Serving as Tech's source book on all student body matters, the Little T, campus handbook, is published annually at the beginning of the school year in September. For the entire year it represents for the old men the authority on all campus activities, and for the new men serves as a "bible" governing their first year.



Gordon B. Weir



Frederic E. Oder

The handbook is one of the three campus publications, and contains a complete student directory, a summary of all campus athletics and organizations, and an indexed list of local advertisers.

Work on the Little T is done during the summer by two co-editors appointed by the Board of Directors during the third term, and the handbook is distributed among the incoming freshmen in time for them to take it to their "get acquainted" camp with them.

The co-editors of this year's Little T were Frederic Oder and Gordon Weir, both seniors, whose varied activities throughout their first three years had given them an insight into almost every phase of student life.

Working together all last summer, these two men issued in the fall a Little T of which the student body may well be proud. Printed in a handy pocket size edition, and bound in a durable maroon cover with contrasting gold block "T", the publication has been of great value the past year to all Techmen, new and old alike.

An active year's program of twenty-eight field trips and numerous speakers gave members of the campus branch of the American Institute of Electrical Engineers valuable and interesting knowledge of "juice" industries. With Dr. F. W. Maxstadt as counselor, Chairman Jack Keyser, Vice-chairman Lathrop Sandiford, and Secretary-Treasurer John Carey created such interest that the enrollment has grown to seventy-five.

Outstanding among the field trips was the three-day inspection of Big Creek Power Development. Side trips to a telephone repeater station and a frequency converter were made on the way. Among the other fields investigated were a radio network studio, broadcasting station, television factory, telephone system, electric motor manufacturing plant, electric switches at a railway station, the Palomar telescope, a steel manufacturing company, power line transmission, mercury rectifiers for electric railroads, radio receiving set manufacturing, television theory, labor relations in industry, sound recording for motion pictures, electric pumps, and cable manufacturing.

The annual U.S.C.-C.I.T. joint section meeting was held at U.S.C. on April 9. In addition, the student members were invited to attend the monthly dinner meetings of the Los Angeles chapter of the parent society and thus come in contact with experienced men in their prospective field.

News organ of the society is its official magazine, "Electrical Engineering," which is distributed monthly. Striving to remain an active and progressive student organization the membership has always remained open to all majoring in electrical engineering.

*First Row, Arvin, Urbach, Espy, Lalmough, Kingsmill, Brandt, Carey, Sandiford, Keyser, LeGrand, Stevens, Fleming, Abbey, Casserly, Prof. Sorensen.
Second Row, Partlow, Deniston, Paulson, Cohen, Bersbach, Laue, Stadum, Wagner, C. Young, Gale, Baller, Carson, Peters, Sullivan, Janssen, Hudspeth, Theile, Tomiyasu.
Third Row, Schneider, Berlot, Beers, Haupt, Hunt, C. Brown, Veronda, Powell, Maninger, Gally, Olney, Almassy, Neiswander, Gillings, Daams.
Fourth Row, Jerrems, Grigg, Eusey, G. Jones, S. Stroud, Dobbins, Dr. Lindvall.*





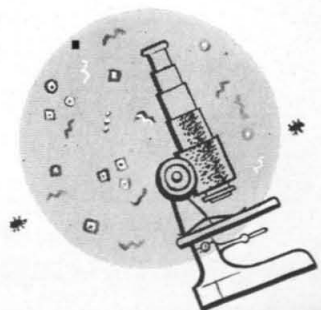
First Row, Stroud, Carlson, Biddison, Kuttler, White, Silberstein, Vetter. Second Row, Hofmann, Spalding, Baller, Vey, Jacobs, Jongeneel. Third Row, Gewe, Professor Michael, Vaughan, Lakos.

Completing another year under the guidance of Mr. Harry Dennis, consulting civil engineer, and Professor Franklin Thomas, faculty adviser, the Caltech student chapter of the A. S. C. E. has acquainted members with modern engineering practice and the practicing engineer.

An outstanding feature of the organization is its long and close association with the Los Angeles chapter of the society. This relationship has afforded students the opportunity of meeting prominent men in the field of civil engineering. Once more the Los Angeles chapter spent one of its monthly conventions on the local campus as the guest of the Caltech group. The event was held in May.

The activities of the A. S. C. E. included extensive and frequent field trips as well as regular discussion meetings. The officers for the student chapter this year were Warren Vetter, president; Robert Gewe, vice-president; Walter Hofmann, secretary; and Luther Kuttler, treasurer.

A . S . C . E



E
M
S
A

Embracing the largest professional group on the campus, the American Society of Mechanical Engineers had the whole-hearted support of over eighty men, including both undergraduate and graduate engineers. By attending the monthly dinner meetings of the Los Angeles parent society, the student members were brought into contact with interesting and experienced men in their prospective profession. This experience was supplemented by monthly copies of "Mechanical Engineering" and the frequent demonstrations, field trips, and conventions which the members attended.

An especially active organization this year, the A. S. M. E. ran the gamut of interests in both speakers and field trips. The former included Mr. Donald Berson of the General Motors Diesel division, Douglas Aircraft's Bruce Del Mar, and Mr. Rockefeller of Union Oil. The members started off their field trip schedule with a particularly interesting and well attended visit to the Byron Jackson Pump Works. This visit was followed by a joint excursion with the A. I. E. E. to the Consolidated Steel Corporation for a complete demonstration of industrial methods of steel fabrication. A trip to Warner Brothers film laboratories rounded off the well-balanced program. The annual spring convention of the western student branches at Santa Clara was well attended by Tech representatives.

As faculty chairman, Professor Daugherty of the Mechanical Engineering department was deserving of much credit. The two groups of semi-annual officers for the year were Gilbert Hofeller and James Crawford, student chairmen; Robert Alcock and David Whittlesey, vice-chairmen; Newell Partch and Bill Ingersoll, secretaries; Jules Mayer and Robert Young, treasurers.

First Row, Hofeller, Alcock, Samuel, Wayman, Kennedy. Second Row, J. Glassco, R. Glassco, Pickles, Webster, Adams, Lemm, Davis. Third Row, France, C. Palmer, Worcester, Brose, Spielberger, Marshall. Fourth Row, Kemp, Partch, J. Palmer, Campbell, Foster, Schrader, Young. Fifth Row, McClain, Mayer, Blow, Bramhall, Zebb. Sixth Row, Walker, Meyer, Oldson, Acker, Svendsen, Ingersoll. Seventh Row, Weller, Crawford, Carr, Wood.





B A N D

First Row, Botkin, McGee, Bennett, Espy, Giacomazzi. Second Row, Brockman, Willits, Freehafer, Scarborough. Third Row, Foster, Anspach, Dewdney, Pearson, Wyckoff, Pettit.

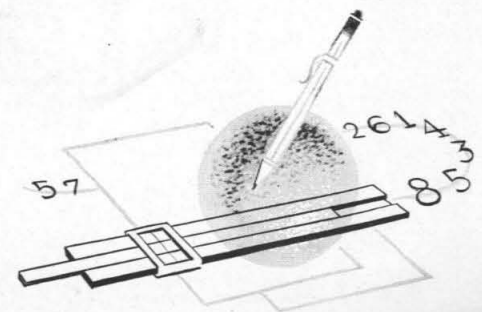
To their traditional stirring renditions of school songs the band added many a "jam" interpretation of the hit of the year, "The Beer Barrel Polka." With a complement of over twenty-five members under the direction of Audre L. Stong and the leadership of Gerry Foster, the members did much to keep up school spirit.

Appearances were made at all home games, while participation in rallies, election activities, and the pajamarino, in addition to performance at a Monday assembly, rounded off the season.



ORCHESTRA

The Caltech Orchestra was again under the capable direction of Mr. Leon Metcalf. Although no public performances were held, the orchestra met once a week and was the one group in which those Techmen who play instruments could enjoy the chance to play the concert type of music. In order to meet the lack of bass and reeds, regular orchestrations were largely abandoned and quartette and sextette arrangements provided with extra parts were used.





First Row, Scarborough, Chapin, Palmer, Spooner, Lewis, Schneider, Reynolds. Second Row, Campbell, Weir, Rupert, Alcock, Stevens, Walters, Kemp. Third Row, Reimers, Bowles, Spielberger, Foster, White, Sohler, Biddison, Goodmanson, Anderson. Fourth Row, Marriott, Widdoes, Partch, Myers, Dawson.

This year the Beavers, besides continually working for concerted student support of rallies and athletic contests, sponsored the annual Pajamarino and supervised the building of the bonfire which preceded the Occidental football game. The pronounced increase in school spirit during the past year has been due in no small part to their continued efforts.

They represent the only organization devoted primarily to the development and encouragement of student spirit and enthusiasm on the Caltech campus. The members, chosen from those who have distinguished themselves by participation in student body activities, are easily identified by their white sleeveless sweaters bearing the Beaver insignia. Continued active service in the organization is insured by the charter which provides that a member missing three meetings in succession be automatically dropped from the rolls.

Officers this year were: Cyd Biddison, president; Charles Palmer, vice president; Gerald Foster, secretary.

B E A V E R S

C H E M I S T S

Chemists and Chemical Engineers have long been organized as the Caltech Chemistry Club. The organization for two years has been a Student Affiliate Chapter of the American Chemical Society.

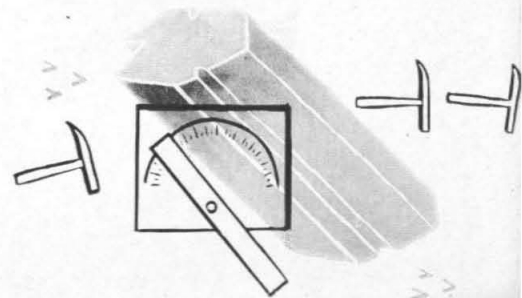
The Chem Club has carried out a considerable range of activities during the year. Varied meetings every three weeks, field trips to industrial units, and the yearly trip to the Trona borax and potash plant together with the annual banquet comprised the full normal program.

Innovations consisted of renting motion pictures on chemistry, and of a research Exhibit Day in which the research being done in the Chemistry Department was shown to the undergraduates. Sponsored for the second year was a meeting of Chemists from all Southern California colleges.

This year's leaders were Bertram Scarborough, president; Erwin Baumgarten, first vice-president; Fred Billmeyer, second vice-president; Paul Longwell, secretary; and William Brown, treasurer.



First Row, Spooner, Harlan, Kluge, Mickley, Sargent, Scarborough, Ray. Second Row, Smith, Tielrooy, Weaver, Baumgarten, Clinton, Watkins, Richardson, Thomas, Love, Mader. Third Row, German, Harper, Brown, Kohl, Marriott, Routt, Jones, Loeffler.

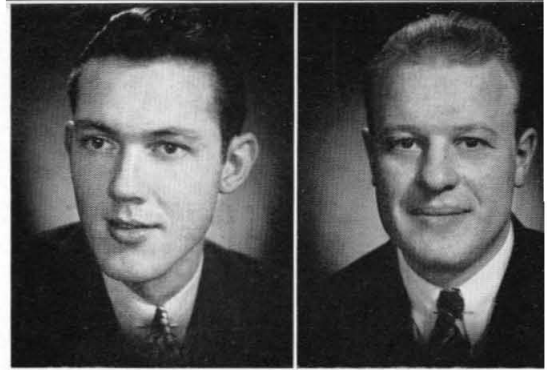


D R A M A

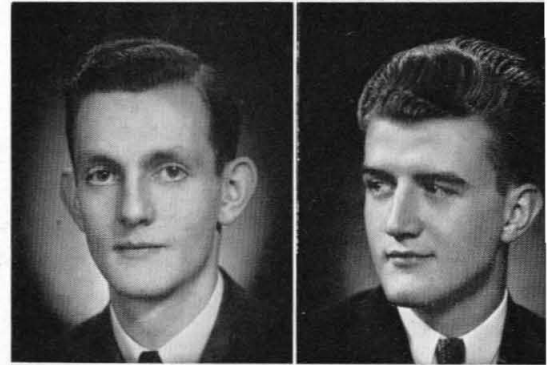
This year was a highly successful one for the Caltech Drama Club. The fall production of Plautus' "The Rope" was met with enthusiasm, not only by Techmen, but by outsiders as well, while the spring play, Sheridan's "The Critic", sponsored by the members, was considered by many to be one of the most humorous of Tech's recent productions.

Highlights of "The Rope" were the sterling rendition of feminine roles by Bob Sherwin and Dwain Bowen and the interpretation of the villain, Labrax, by Edwin Johnson. The part of the old man Daemones was ably played by Gordon Weir, veteran of seven Tech productions.

Bennett
Carey



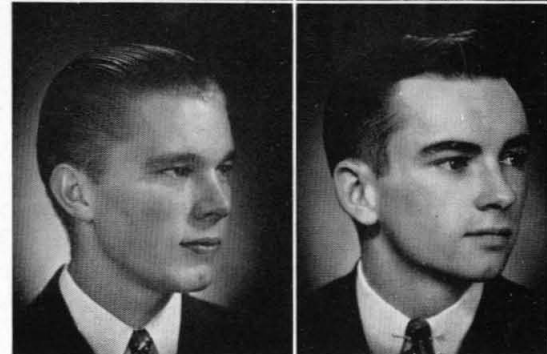
Farrington
Foster



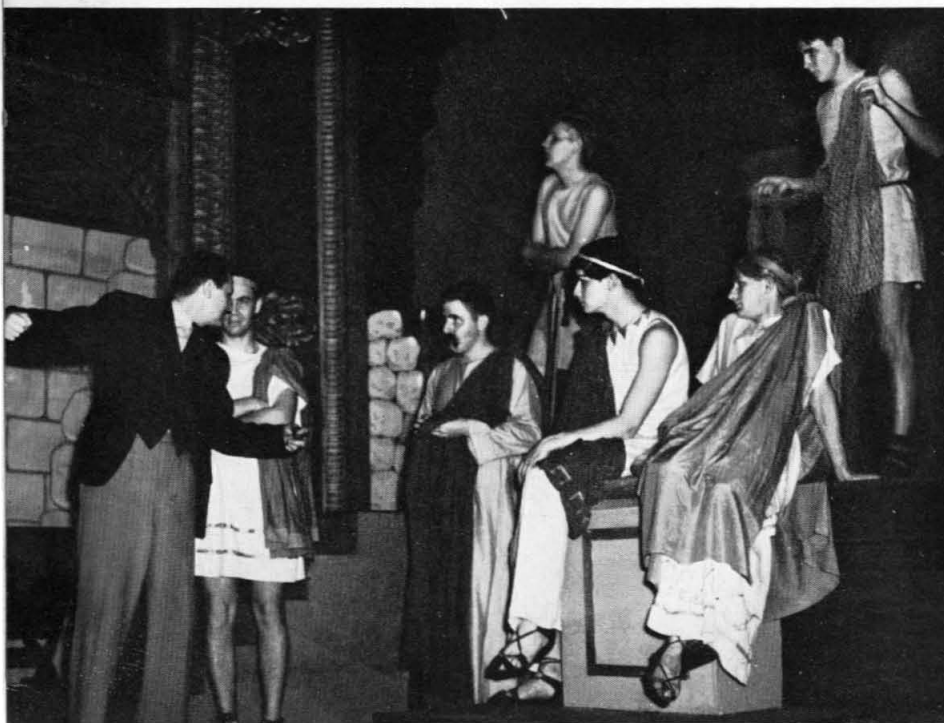
Manildi
Stewart



Todd
Weir



Dr. Stanton shows them how.



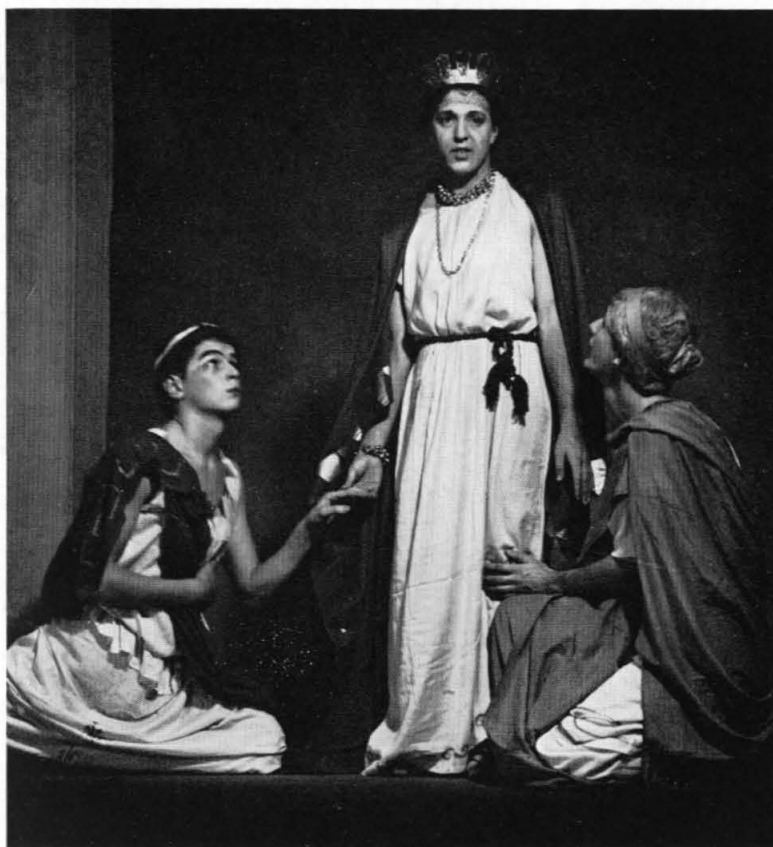
The spring play, "The Critic", presented a very interesting treatment of a play within a play, with the author of the play making pertinent comments, while the critic answered with varied and derogatory remarks as to the merits of the play. The author was played by Edwin Johnsen; the critic, Mr. Sneer, by Fred Tenney; and the self-appointed commentator, Mr. Dangle, by Gordon Weir. The part of Mrs. Dangle was played by Ludwig Epstein.

C L U B

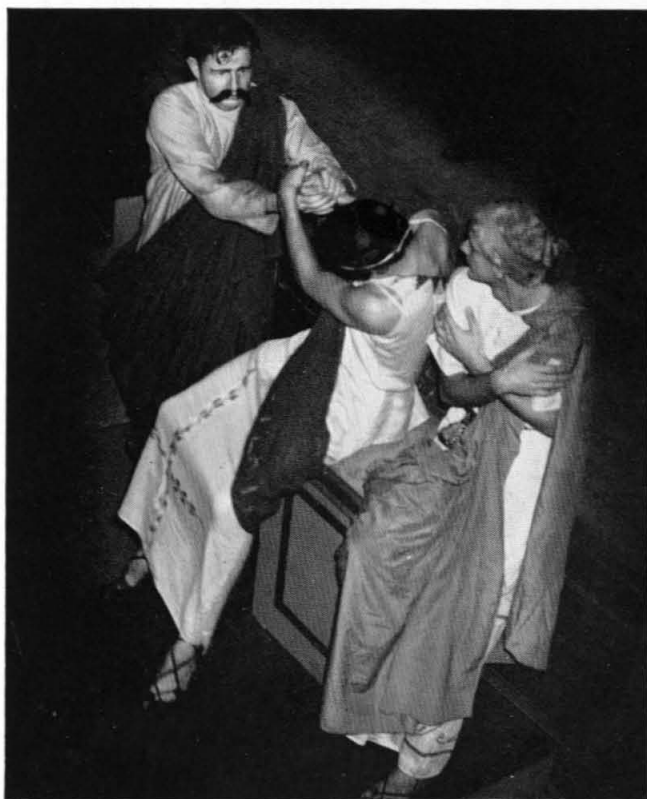
A N D P L A Y S

The club's activities included not only acting in both the plays, but the construction of sets and stage crew work as well. Special credit is due Warren Vetter for his artistic work on the sets and to John Carey and George Todd for their able handling of the stage work. Unseen by audiences, these men have nevertheless been extremely valuable in the successful production of Tech's plays.

Leading ladies Sherwin and Bowen beseech priestess Hofeller to lend them aid.

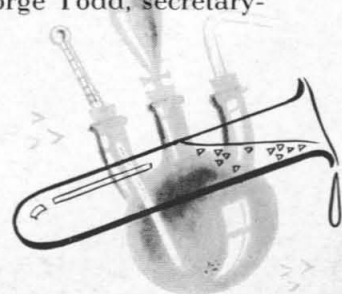


Edwin Johnsen exhibits his villainous character by molesting the fair Sherwin and Bowen.



Activities for the year were climaxed by a banquet at A Bit of Sweden in Los Angeles followed by attendance at the Biltmore Theater. Among those present were Drs. Eagleson and Stanton, who direct the plays, and Dr. and Mrs. Graham Laing, whose work on costumes is essential to successful production.

Officers of the club for this year were: Gordon Weir, president; Ray Richards, vice-president; and George Todd, secretary-treasurer.



D E B A T E R S

The Caltech debate squad of this season was one of the best in recent years. The five varsity teams of the squad based their cases largely upon economic grounds and debated "Military and Economic Isolation of the United States" with considerable vigor and success. During these debates the men gained invaluable experience in speaking fluently and with poise on subjects with which they were familiar.

Throughout the year debates were held between Tech and various neighboring schools. Teams attended tournaments at Pomona, Stockton, Los Angeles, Redlands, and Knoxville. The great event of the year was the participation of one team in the national Pi Kappa Delta tournament held at the University of Tennessee in Knoxville. This was the first time Tech had been represented in the national tournament for four years.

Dean Untereiner coached the squad this year as in the past, and his individual and group help were, to a large extent, responsible for what success the teams had. Robert Buss, as manager, did a creditable job in that thankless position.

Freshmen debaters were given instruction in the fundamentals of debating in a special-credit class by Dean Untereiner.

Seated, Staley, Scarborough, Kohl, Oder, Buss, Grossberg, Marshall, Miller. Standing, Truesdell, Marriott, Mayer.





Kneeling, Buss, Mader, Curtis, Nyborg, Vartikian. First Row Standing, Sherwin, Epstein, Jones, Espy, Granicher, Kennedy, Harris. Second Row Standing, Merritt, Ervald, Reynolds, Cox, Hall, Robinson, Makepiece.

G L E E C L U B

Singing for the joy of singing, this year's Glee Club furnished pleasure and diversion for over forty men. Inspiring, likable Leon Metcalf, in his second year at Tech as composer and conductor, directed the group each Monday night in singing, which did much to take men's minds far from the trials and toils of scholastic work. Professor Franklin Thomas was the most active of the cooperative faculty supporters of the Glee Club. Serving as officers for the year were Meredith Nyborg as president and Bill Kennedy as secretary.

P R E S S C L U B

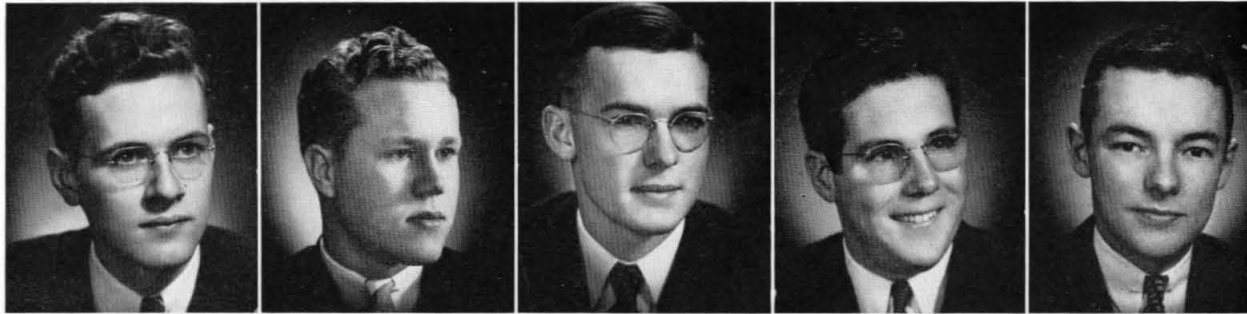
Anderson

Bowles

Campbell

Chapin

Gold



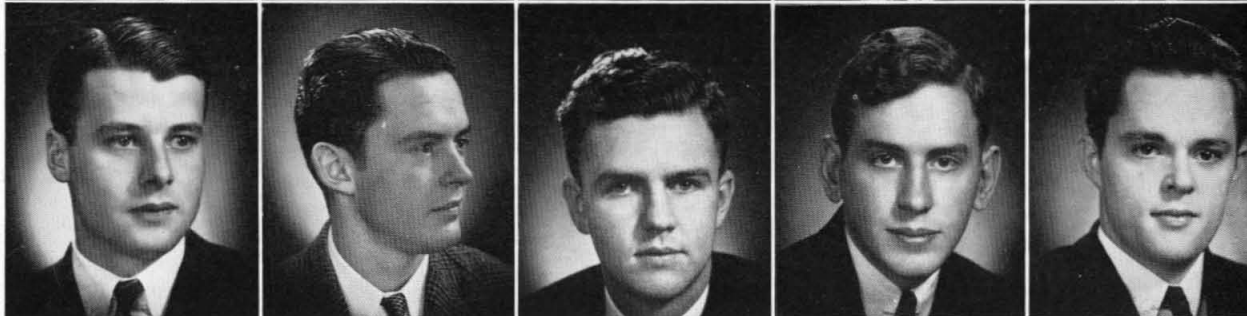
Guillou

Harr

Larson

Mackay

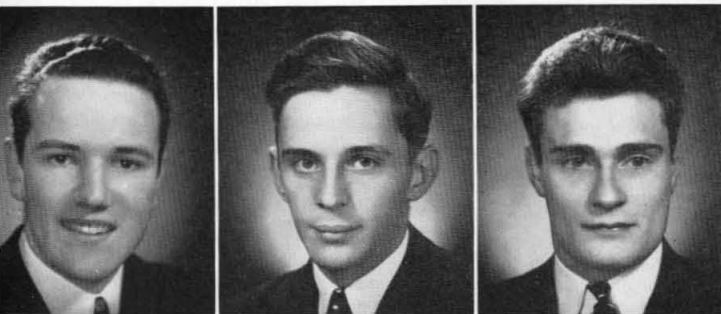
Mickley



Myers

Oder

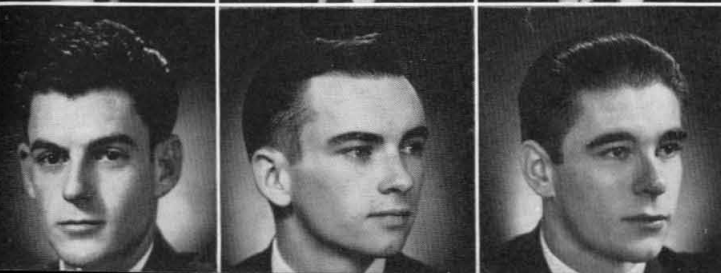
Reimers



Stevens

Weir

Widdoes



Originally organized as a society for promoting interest in student publications, the Press Club has included men in all of the campus publications. In the past its activities have included meetings, yearly dances, and occasional parties following the initiation of new members. Officers were Keith Anderson, president; Harold Mickley, vice-president; Gordon Weir, secretary; and Lawrence Widdoes, treasurer.





Kohl, Marriott, Oder, Scarborough

Caltech's forensic organization is the California Gamma Chapter of Pi Kappa Delta. Members have been selected from those who engage in intercollegiate debate, oratory, or extemporaneous speaking. To further prove their speaking ability, all pledges were required to make a good soap-box oration in the Los Angeles Plaza.

The activities of P.K.D. extended into several phases of forensics. In order to defray the expenses of sending teams to various tournaments, the annual classical play was sponsored in the fall term. This year's production, "The Fisherman's Rope" by Plautus, was an outstanding financial as well as a dramatic success. Debates were held with neighboring schools throughout the year; local tournaments of both debate and extemporaneous speaking were entered, and the climax of the year was the trip of one debate team to the national Pi Kappa Delta tournament at the University of Tennessee.

Playing a prominent role in the extra-curricular activities of the Caltech campus, the P.K.D. has aroused increased interest in all forensic activities, serving both as an honorary organization for those men who are successful in debate work and as a sponsor for increased interest and participation in all phases of speech work at Tech. Working hand in hand with the national organization of which it is a member, Pi Kappa Delta has brought Caltech to a ranking position in national debating circles.

Officers for the year were Bertram Scarborough, president; Fred Oder, vice-president; William Marriott, secretary-treasurer; and Robert Buss, publicity manager.

P I K A P P A D E L T A



Seated, Sherwin, Jacobson, Billmeyer, Brewer, Brose, Vordermark, Truesdell. First Row Standing, Gillings, Mr. Metcalf, Arvin, Professor Thomas, Wahrhaftig, Menard, Price. Second Row Standing, Holser, Lutz, Dunn, Neiswander, Bradley, Richardson, Fleischer.

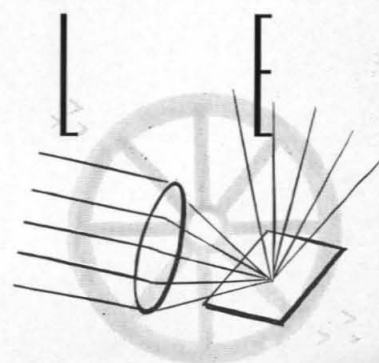
Including as its members all men interested in fine music, the Caltech Musicale has filled a valuable place in the life of many members both of the Institute and of the music-loving public at large. The policy of the Musicale has been to present a series of concerts in Dabney Lounge, and the repertoire of classical selections is a gift of the Carnegie Corporation of New York.

Although not yet three years old, the Caltech Musicale is the most active minor club on the campus. Its Sunday evening concerts, at which well known musicians and critics act as commentators, attract large audiences from both the student body and from outside of the Institute.

Members of the organization often find relaxation in playing selections from the Institute's Carnegie Music Library, a complete collection of fine records and reproduction equipment.

Officers Brewer, La Forge, Wahrhaftig, and Billmeyer head the committees of the club.

M U S I C A L E



The most rapidly growing club on the campus is the Caltech Ski Club. Organized in 1937, it has grown in membership from five to sixty members. The club's activities have increased in proportion to the increase in membership.

In the fall of 1959 construction was started on a ski hut for the organization in the Keller Peak Ski Area. The hut will accommodate sixty persons and was constructed entirely by the members themselves. Only eighty-five miles from Tech, the hut promises to be valuable as a center for recreational skiing and for getting members of the team in condition.

In 1958 the club entered a team in their first meet, the Pacific Coast Intercollegiate Ski Union Championships at Yosemite. The following year another team was entered, which placed much higher than before, downing a number of major college teams of the South such as U.C.L.A. and U.S.C.



Ben Head, Dick Head, Woods, Bishop

S K I C L U B



First Row Seated, Schubert, Woods, R. Head, Langerud, Stewart, Paine, Wallace, Glover. Second Row Seated, Menard, Bowlus, Staatz, Tielrooy, Buchanan, Sherwin, Chalmers, Hebenstreit. First Row Standing, Routt, Alcock, Jones, Pichel, Gold, Steele, Rhodes, Hunt, Barrow, Adkins. Second Row Standing, McGirk, B. Head, Halpenny, Bishop, Sabersky, Giacomazzi, Dazey, Young, Ridland, Ploeser, Vaughan.

Very nearly defunct two years ago during the low ebb of Tech athletic fortunes, the Varsity Club has revived in the last year with increasing student interest in intercollegiate sports and, with the pledging of many new members has once more entered into active service on the campus.

The club is an honorary organization composed of those men who are interested in the welfare of Tech athletics and give evidence of their interest by active participation in varsity sports. In order to be elected to membership a student must have made at least one major sport varsity letter or two minor sport letters and in addition must have shown such qualities of sportsmanship and fellowship as would promise his being a congenial and active member of the group.

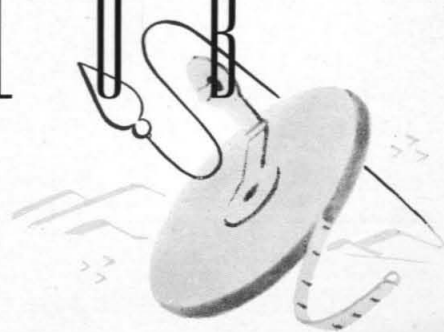
The newly elected pledge faces a week of torment at the hands of the old members. He must carry a small fireplug replica of his own construction wherever he goes, wait hand and foot upon the old members, refrain from smiling, and avoid the company of his fellow initiates. But a warm reception is given to the initiates upon the final night of pledge week.

Officers for this year were: Cyd Biddison, president; Dumont Staatz, vice-president; Lawrence Widdoes, secretary-treasurer.



First Row. Small, Gewe, Vaughan, Sohler, Skalecky, Rupert, Keyser, Staatz, Widdoes, Davis, Billman. *Second Row.* Hofmann, Walter, Myers, Sturdevant, Harper, Payne, Stevens, Biddison, Palmer. *Third Row.* Grigg, Marriott, Campbell, Nagle, Goodmanson, Partch, Gold, Fisher, Anderson, Hiatt, Lind, Kemp, Eusey, Stroud, Sullivan.

V A R S I T Y C L U B



T A U B E T A P I

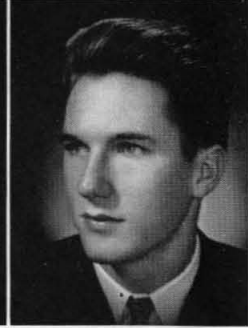
Abraham
 Baumgarten
 Billman
 Bowles
 Brewer



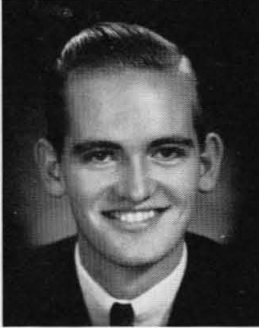
Brooks
 Brown
 Brumfield
 Brunner
 Foster



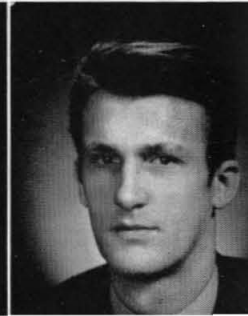
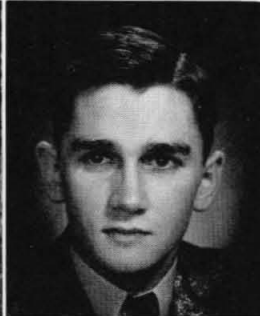
Goodmanson
 Grigg
 Harper
 Hines
 Jongeneel

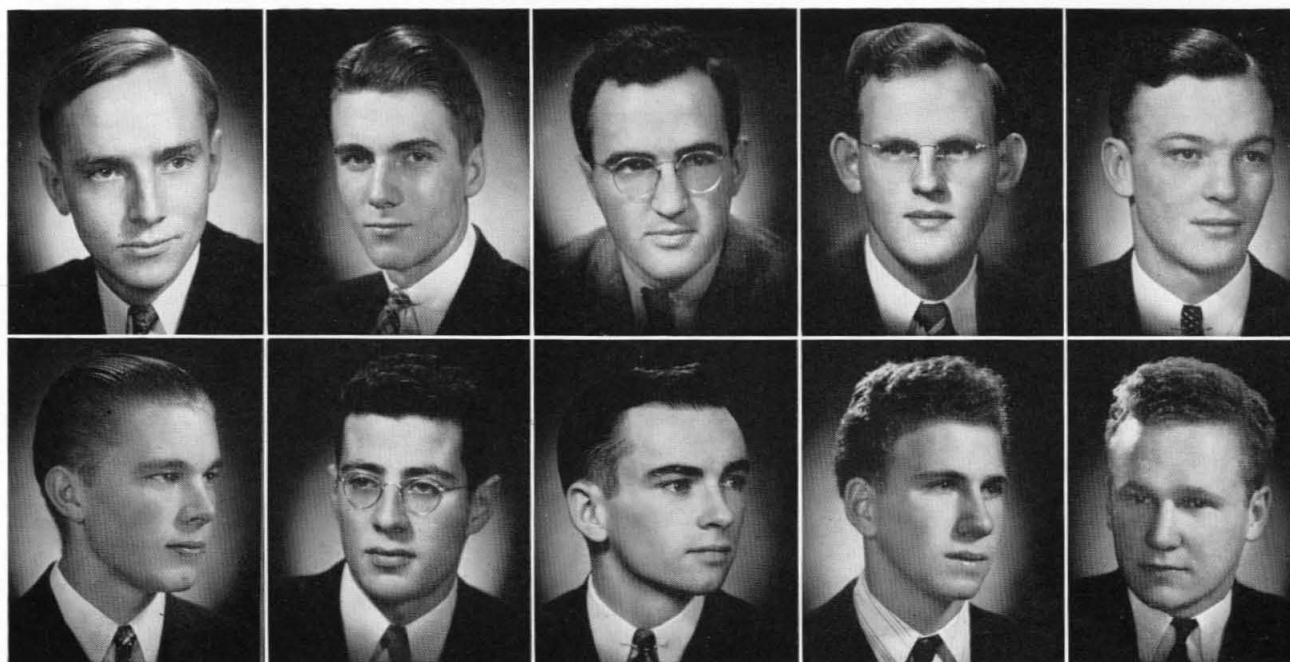


Kohl
 Loeffler
 Longwell
 MacKay
 Manildi



Marriott
 Mickley
 Nagle
 Newby
 Richardson





Scarborough
Todd

Smith
Wahrhaftig

Stone
Weir

Thompson
Wilts

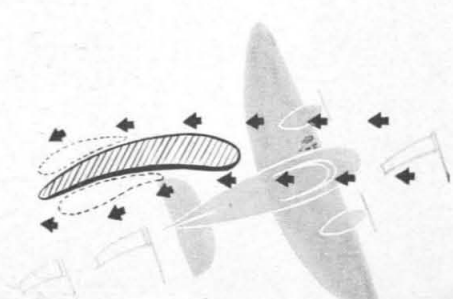
Stroud
Walter

"To mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character," such in the constitution is the purpose of Tau Beta Pi. In accord with this purpose only those in the upper quarter of the senior class or the upper eighth of the junior class are eligible. This qualification must be supplemented, however, by requiring members to be men of fine character, and therefore in Caltech's California Beta Chapter are found the heads of Student Body and House Government, and the leaders in athletics, Y. M. C. A., professional societies, dramatics, forensics, and music.

Fall prospective members went miniature golfing with the society and conclusively demonstrated that putting ability is unrelated to brain power. Nineteen then spent a month polishing brass as pledges and became members at a banquet at the Athenaeum. A burlesque Mikado by the initiates was somewhat overshadowed by a talk by Frank Capra who was also initiated. A short recounting of the discovery of the vacuum tube by its inventor, Dr. Lee DeForest, another initiate, completed the program.

Second term saw another election of pledges; third term their initiation again at an Athenaeum banquet, and the annual Tau Beta Formal held in Dabney Lounge.

Officers for the year were: President, Joseph Manildi; Vice-president, Darragh Nagle; Corresponding Secretary, Bertram Scarborough; Recording Secretary, William Brown; Cataloguer, Frederick Brunner.



Y. M. C. A.



Frosh Camp, attended by 140 incoming freshmen, started off the Y. M. C. A.'s most successful year under the capable administration of John Price. Following its motto of "Here to Serve," the "Y" also presented the annual tea dance, several Walrus club discussions, Christmas and Easter vespers, peace days, sex lectures, freshman and sophomore luncheon meetings, the book exchange, and an assembly each term.

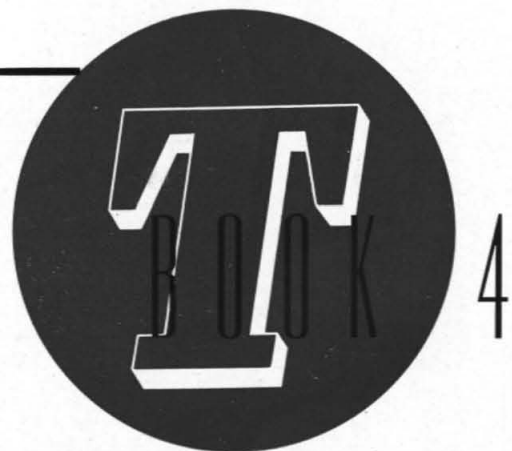
Officers for the year were Don Loeffler, president; George Barber, vice-president; Langdon Hedrick, secretary; and James Jongeneel, treasurer.

Organized for friendly and informal religious discussion, the Newman Club, an organization of Catholic men at the Institute, has completed a very successful year marked by frequent dinner meetings on the campus at which the members have listened to distinguished visitors and have discussed with them questions of religious and philosophical interest. Under the efficient leadership of Robert Fleming, president; Robert Buss, secretary-treasurer; and the inspiring guidance of Father O'Shea, the Newman Club has been of great service to its members in broadening both their knowledge and their understanding.

NEWMAN CLUB



Front Row, Kingsmill, Fleming, Glover.
Back Row, Spooner, Kupfer, Young, Buss.



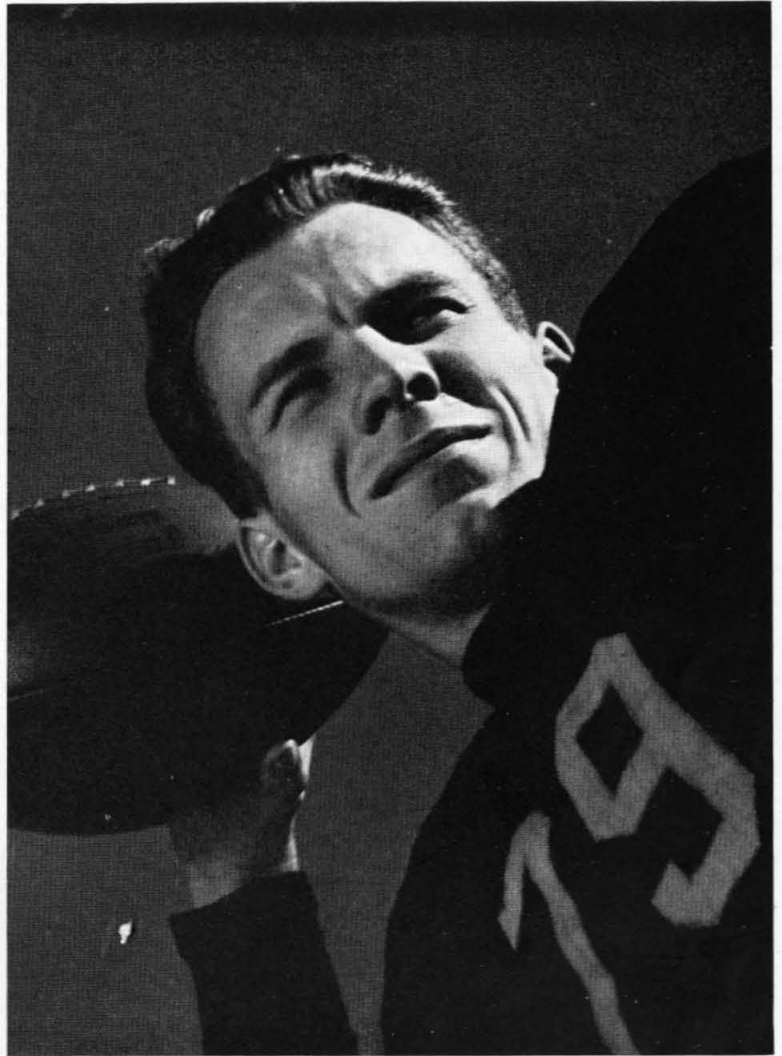
S P O



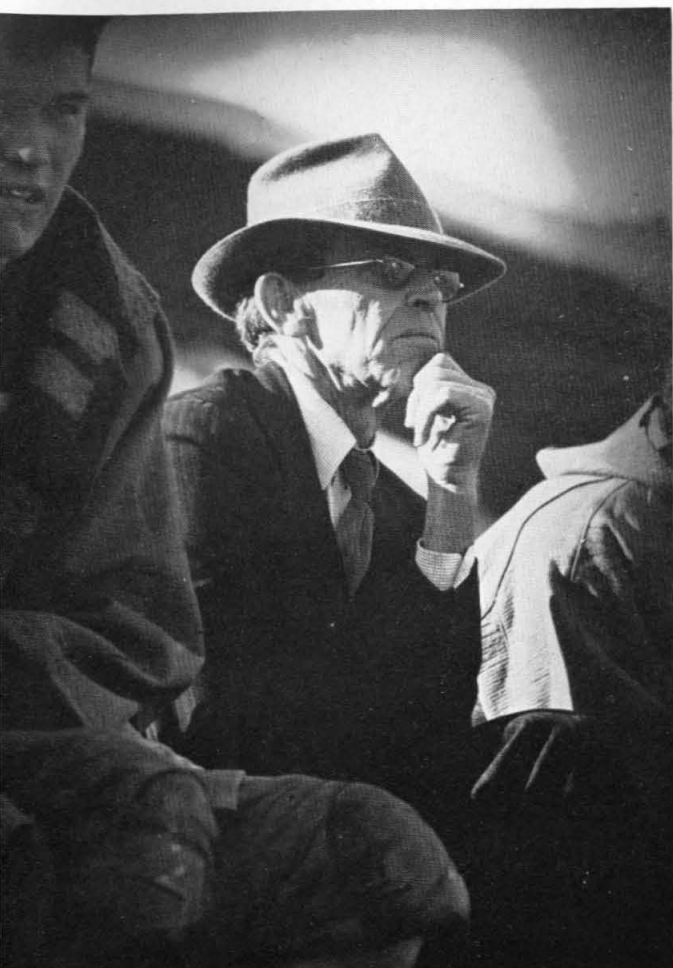


ATHLETIC

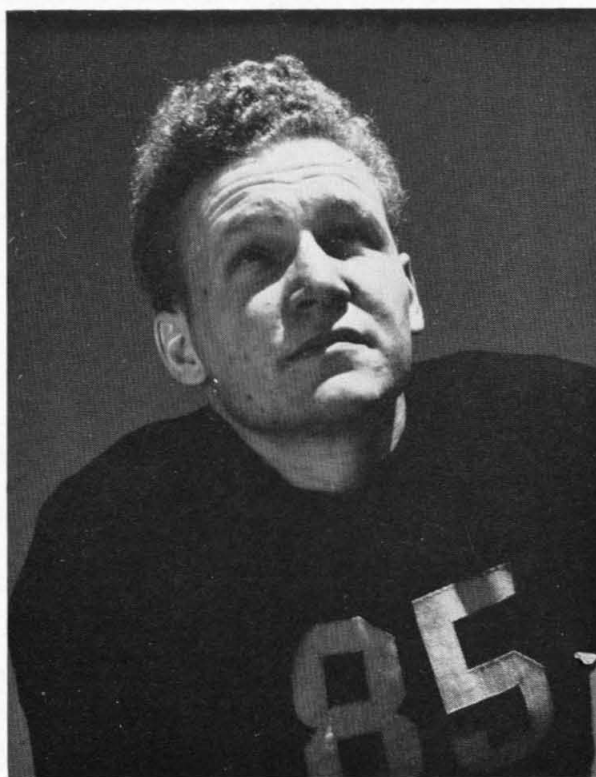
Creator of sportsmanship . . . Relaxation for
tired brains . . . Builder of physique . . .
Creator of men of action . . . Source of
Tech's greatest loyalties . . . Dominant
element of House Life . . . Athletic Life
stamps the Tech man deeply.



F O O T B A L L

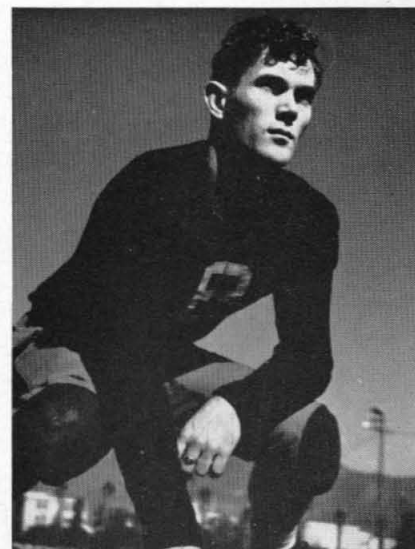


Coach "Fox" Stanton



Captain Whitey Walters

Biddison, tackle



Stroud, guard

This year saw a very promising and strong Tech varsity football team come through a difficult season, hindered by numerous injuries, with a record which praises the fighting spirit and determination of Tech varsity men.

From the very beginning of the season, first string men were forced to the sidelines because of injuries; and in the final game of the season the football team and the whole school suffered their most tragic loss with the death of Paul Becker who will long be remembered as one of Tech's most promising and outstanding football players.

And yet, a record of the season shows that the Beaver varsity decisively defeated both Citrus Junior College and La Verne; they lost by very narrow margins to Redlands and Pomona; and were only outclassed by the conference champions from Whittier. In the final selection of the All-Conference Grid Team, six Tech men received honors. They were Stan Sohler and Captain Don Walter on the first and second teams; with honorable mention going to Paul Becker, Merrit Eusey, Dumont Staatz, and Yosh Nakada. Such a record speaks well for the excellent leadership of Coach "Fox" Stanton and Captain Don "Whitey" Walter.

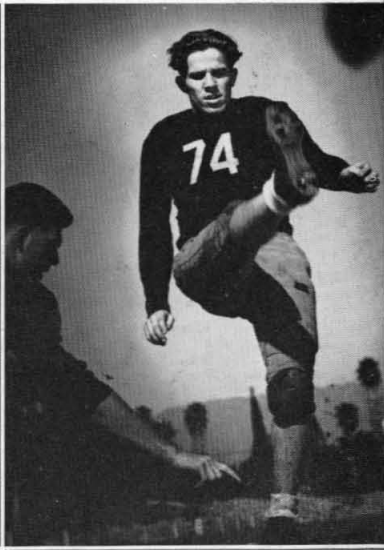
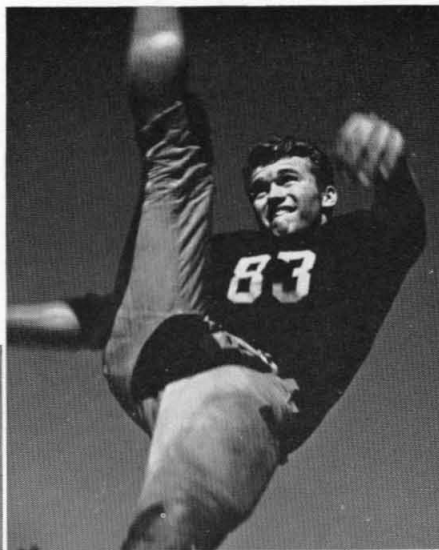
I T Y F O O T B A L L

Varsity Captain "Whitey" Walter played a hard game as crashing end and at the close of each game was battered and bruised from head to toe. Despite this beating he never let down and always gave every ounce of strength to win. His fire and pep were constant challenges to the rest of the team, and his play, often brilliant, was always steady and reliable. Always the bulwark of both offence and defence, he proved himself a captain in every sense of the word. It was only fitting, therefore, that he be elected by the team, as recipient of the Wheaton trophy.

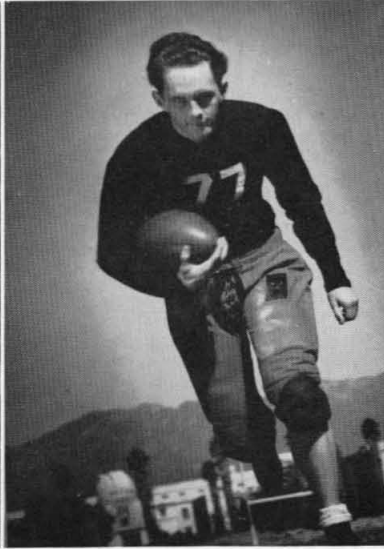
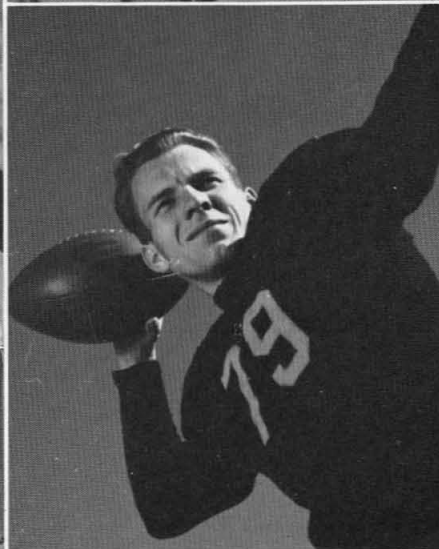
Roose, half

Sohler, full

Hofmann, guard



Rogers, quarter



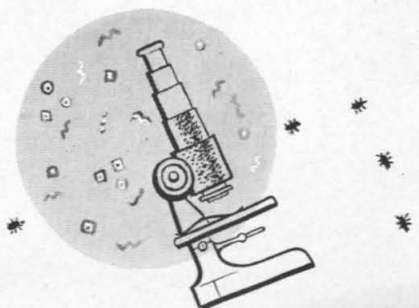
Kemp, quarter

D. Staatz, guard

Cooper, quarter



Becker, center



V A R S I T Y F O O T B A L L

In the first game of the season, the Engineers journeyed to San Luis Obispo to drop their opening tilt with Cal Poly 24 to 6.

A much improved Beaver eleven next met Citrus J. C. in a night game played in the semi-darkness of Tournament Park; and led by captain Walter, Sohler, Reimers, and Gillette, the Techmen flashed to a 26 to 0 victory.

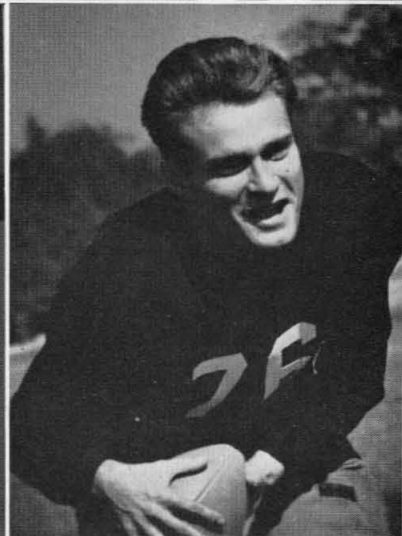
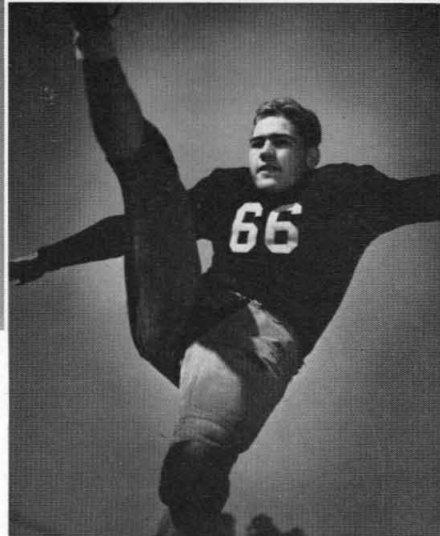
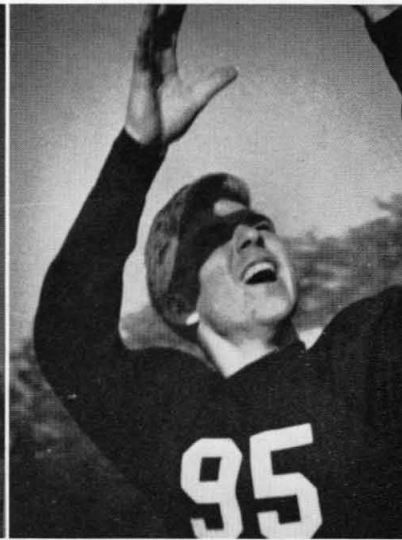
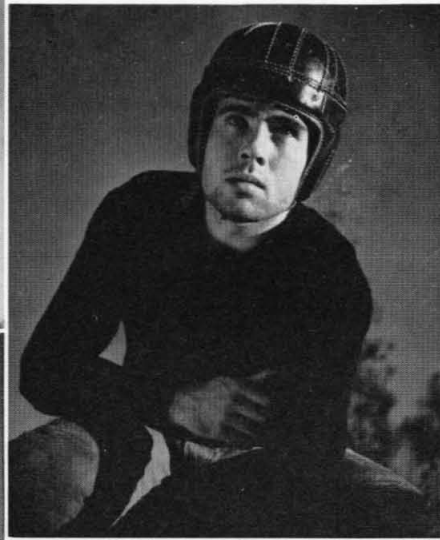
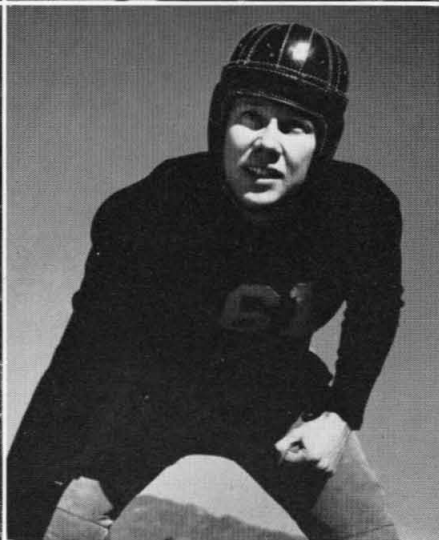
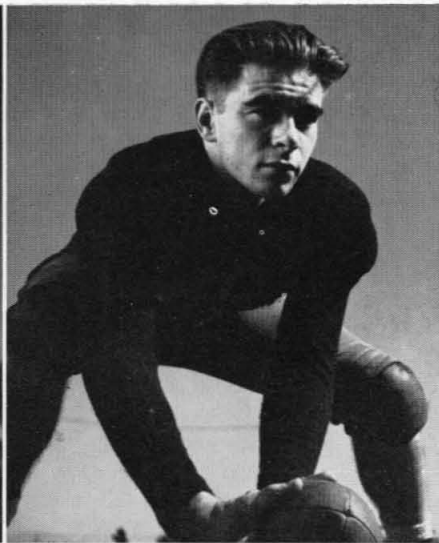
A driving rainstorm featured the Engineers' next game against the San Diego Marines at San Diego where the heavily outweighed Beavers stubbornly went down to the score of 21 to 5.



The band swings out on "The Fight Song."



A good 50-yard line seat for the Pomona game goes to waste.



Eusey, tackle
Nakada, half

Widdoes, center
Seibel, end

Small, half
Elliott, half

Lind, end
Reimers, half

Next came the traditional Occidental game played in the Rose Bowl where the Techmen, hindered by injuries and the temporary absence of Coach Stanton, who was confined to the hospital, lost to the Bengals 15 to 7.

Whittier was the next foe, and the Conference Champions, playing a home game, gave the Engineers a fourth-quarter rout to win 47 to 6.

The Pomona game saw the Beavers seeking retaliation, and outplaying the Sagehens only to lose 20 to 15. Becker and Eusey starred on defense.

The following week saw Tech lose another heart-breaker to Redlands by a score of 7 to 6 with the tallies coming in the last five minutes of play.

The season closed with Tech outplaying the La Verne Leopards to technically win 13 to 7, but in reality, to suffer their greatest loss with the fatal injury of Paul Becker.

Thus closed another football season for the Beavers. Graduating varsity men will be greatly missed from next year's lineup, but an experienced nucleus of ten lettermen will be returning and gives fair promise of a strong squad for 1940.





Buck Rogers finds a hole.

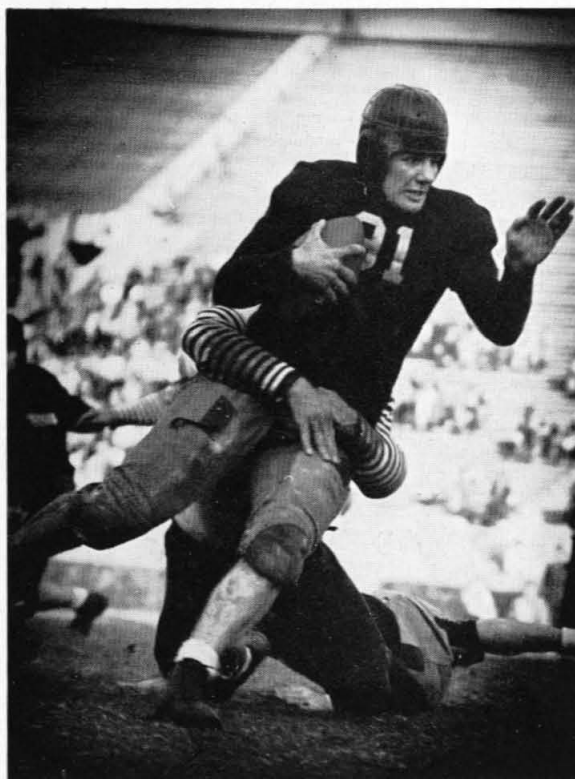
V A R



Cooper leads interference.

YEAR'S SCORE

Caltech—6	Cal Poly—24
Caltech—26	Citrus J. C.—0
Caltech—5	San Diego Marines—21
Caltech—7	Occidental—15
Caltech—6	Whittier—47
Caltech—15	Pomona—20
Caltech—6	Redlands—7
Caltech—15	La Verne—7

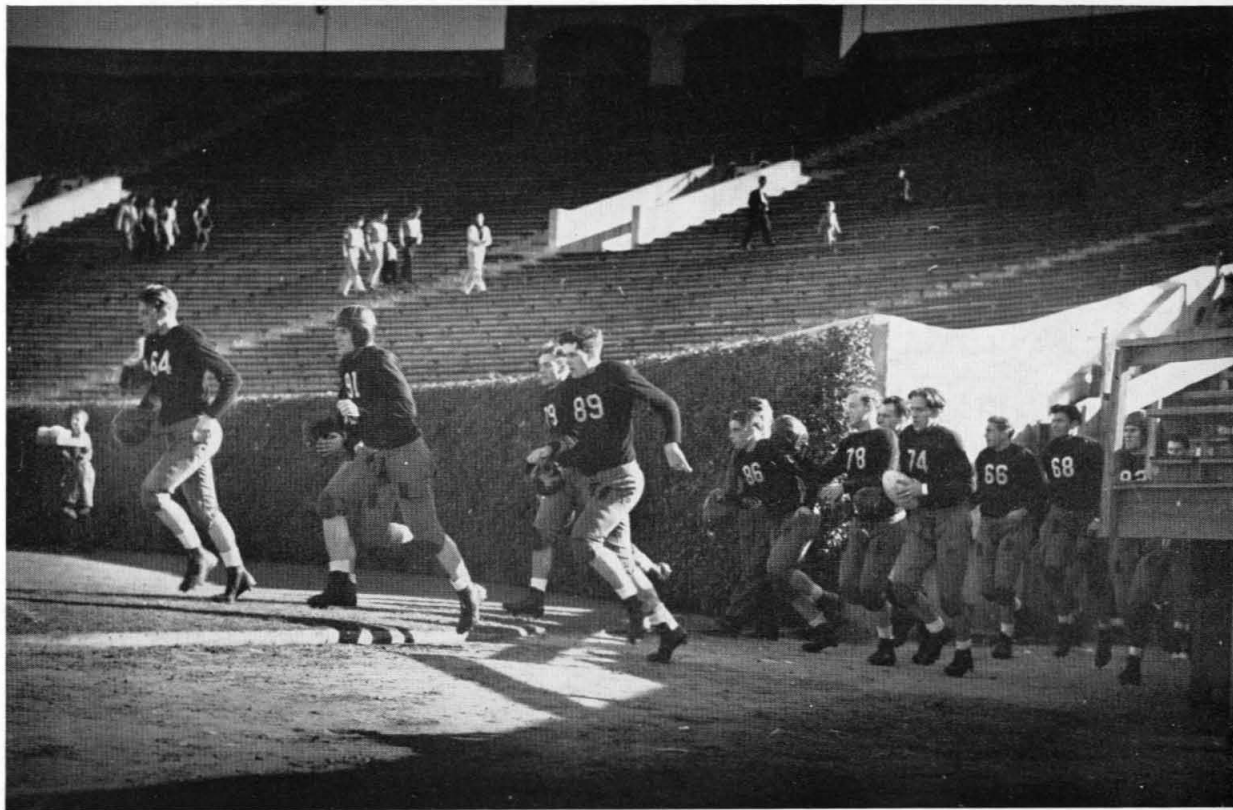


Pomona stops Sohler.



Tense moment for the bench.

S I T Y F O O T B A L L

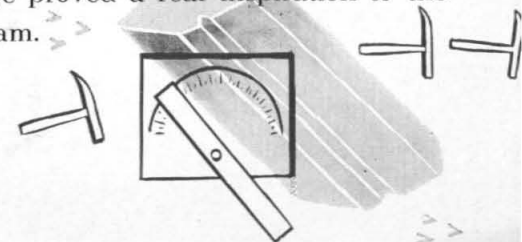


The Beaver Pigskin Parade!



Elliott dropped at scrimmage as Widdoes comes over.

An unusual feature of the football season was the large number of injuries. For many weeks there was doubt if Tommy Elliott would play again. The team was decidedly weakened by the long absence of many key men of the team. Coach Stanton's misfortune was the most unusual, however. While working in his garden, the coach was treacherously attacked by a battle force of black widow spiders. After a skirmish, in which the spiders were exterminated and in which the "Fox" received a large dose of venom, the "Fox" showed his toughness by staying out to coach the team, and only upon strict orders from his physician could he be prevailed upon to leave the team and rest a few days. Coaching from a wheelchair on his return, Coach Stanton's courage proved a real inspiration to the team.





Griffith blocks for Shonerd



... as frosh lose to Pomona.

F R O S H

Inspired by one of the largest turnouts in recent years, the frosh footballers met their traditional rivals, Oxy, in the opener and battled the heavier, more experienced squad to a 6-6 tie in the Rose Bowl.

Following this stunning upset the yearlings played Webb school at Tournament Park, and administered a 31-0 defeat. Outstanding player of the day was "Ace" Anderson who showed his prowess on the gridiron by scoring eighteen points for the Tech Frosh.

Suffering their first setback of the season, the Engineers lost 25-6 to the Pomona Sagechicks in a contest featured by numerous penalties and injuries. These injuries handicapped the locals when they met Redlands the following week and were defeated for the second time this season, 26-14, in a much more closely contested tilt than the score indicates.

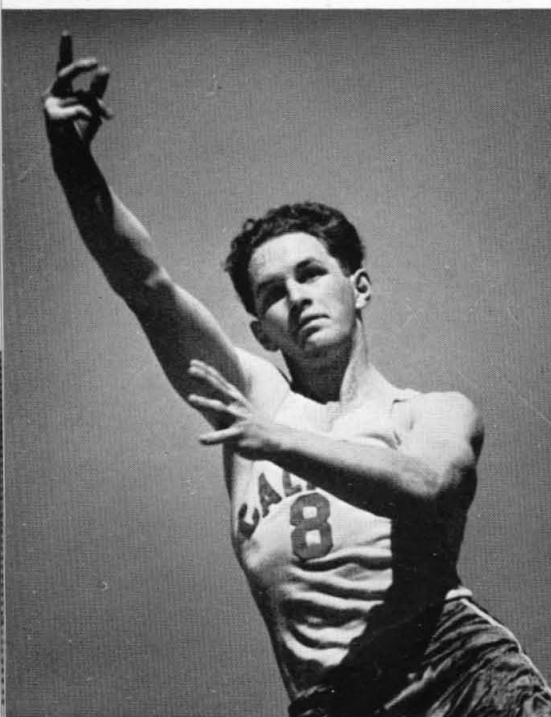
The team was co-captained by Evy Macartney and Jim Blayney, and coached by Clay Smith and Claude Brown.

First Row, Tileston, Griffith, Blayney, McCoubrey, McDougall, Brown, Wittig, Bashor, King, manager. Second Row, Buchanan, Farmer, Barlow, Anderson, Macartney, Graner, Hanchett, Jim Young, Johnson, Powers, manager. Third Row, Coach Brown, Vordermark, McGee, Halpenny, Joe Young, Dewdney, Bunker, Bacon, Beckstead, Shonerd, Kott, Tedrick, manager; Coach Smith.

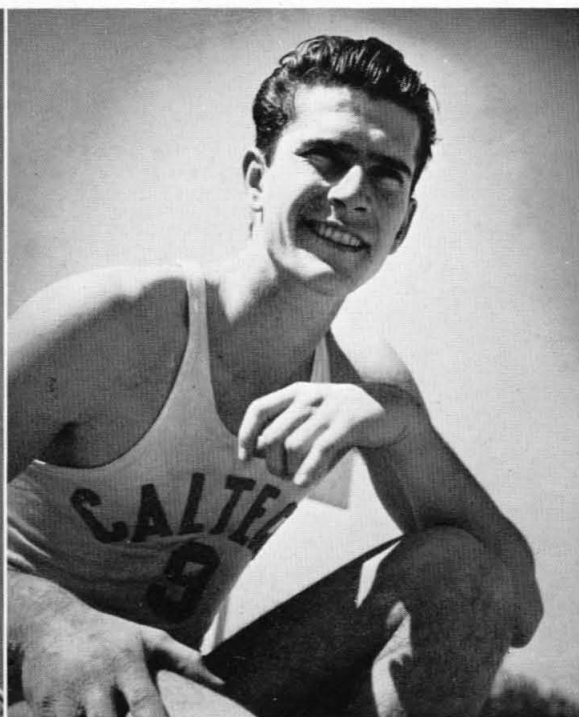




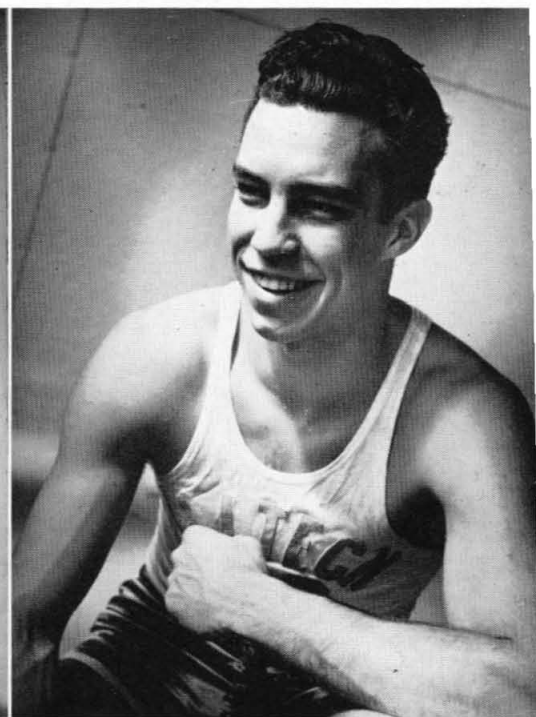
B A S K E T B A L L



Cooper, forward, arches one over.



Kendall, forward, awaits the call.



Meyer, guard, played a powerful game.

The 1940 edition of the Beaver varsity casaba squad completed a rather disappointing season, and wound up in the cellar position in the conference standings. The squad showed promise in early season practice and flashed championship form in several league games. But, unfortunately, such form never lasted for an entire conference game. As usual, the team was handicapped by the lack of adequate facilities. The hoopsters had to travel every afternoon to the P.J.C. west campus gym to practice. Coach for the year was again George Cooper.

The basketekers started off their schedule with a bang by dumping a 35-31 loss on the laps of the La Verne Leopards. Although La Verne led at the half, the Beavers gained the lead midway in the second period, and were never again headed. Next week saw the Engineer five drop a 50-50 tilt to the powerful Chapman quintet. Closer than the final score would indicate, the game was tied at 25 all with but ten minutes left, but in the closing minutes Chapman staged a rally at the expense of the tiring Beavers. The conference opener during the following week resulted in a 51-38 defeat for the Engineer casabamen at the hands of the Oxy five, disability to make free throws contributing greatly to the loss. Bob Myers led the Beaver cause with 11 points.



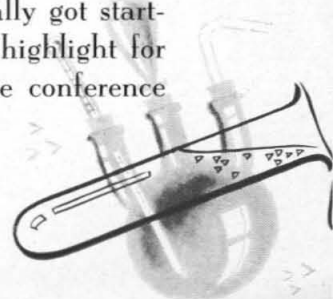
Coach George Cooper trains the Tech hoopmen.

B A S K E T B A L L



*First Row: Cooper, Kemp, Goodmanson, captain; Reimers.
Second Row: Schrader, manager; Myers, Foster, Walter, Albrecht, Sohler, Wagner, manager.
Third Row: Coach Cooper, Van Ness, True, Kendall, Chapin, Billmeyer, manager.*

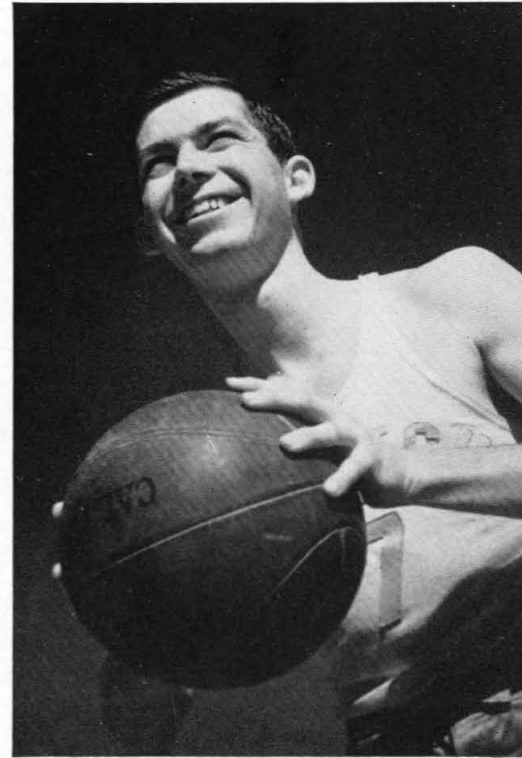
The speedy Redlands basketballers dealt the Techmen their next defeat, the fray ending 52-52. The first half was hotly contested, with the Beavers showing a world of promise. The second half was a different story, with the Engineers seeming to tire rapidly. The Pomona Sagehens were the next victors over the luckless Beavers, trouncing them 61-55. The Tech quintet never really got started in this tussle. Captain Goodmanson's eleven digits led the Engineer scoring. Beaver highlight for the evening was the fact that guard George Meyer held Pomona's Morris, holder of the conference scoring record, to a mere two points.





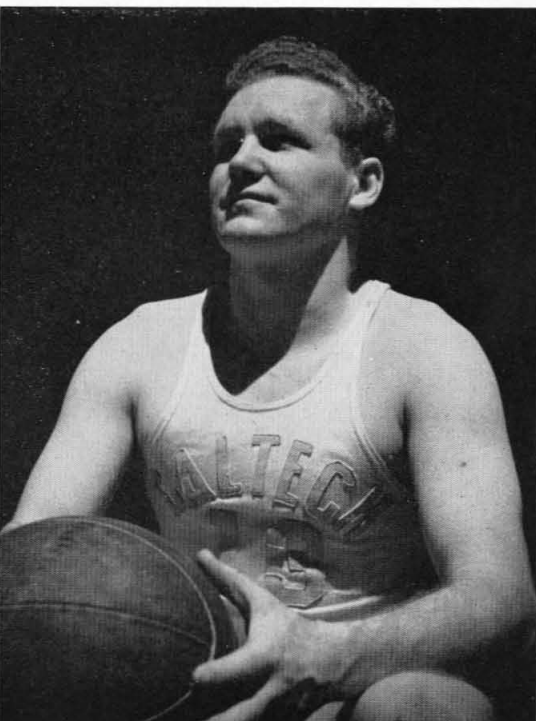
Kendall reaches for the ball as Pomona closes in on him.

The Whittier Poets, Southern California Conference champions, lowered the Engineers' stock further by whipping them twice the next week, 71-55 and 54-26. The Beavers couldn't hit the hoop consistently, while the Poets made an amazing average of the shots they attempted. Don Walter and Bob Myers turned in fine performances for Tech. The second tussle for Pomona found the Sagehens winning 50-41. The Caltech cagers played superb ball in the second stanza, outscoring Pomona, but couldn't overcome the Sagehens' first half lead. Bob Myers accounted for eighteen of the Beaver points. The Engineer five then journeyed to Redlands to receive a 52-53 loss. Again the Beavers turned in a fine second half, holding the Bulldogs even, but the first half proved too destructive. "Spear" Myers boosted his scoring further by pouring seventeen tallies through the netting. The season finale resulted in a 66-57 pasting given the Engineers by Oxy. The Tiger scoring pair, Reidel and Jeffries, scored most of the Bengal points themselves.

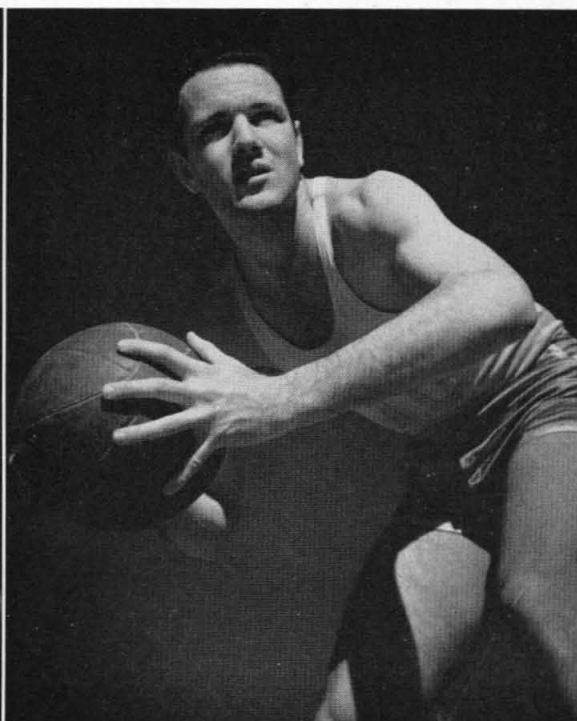


Captain Lloyd Goodmanson.

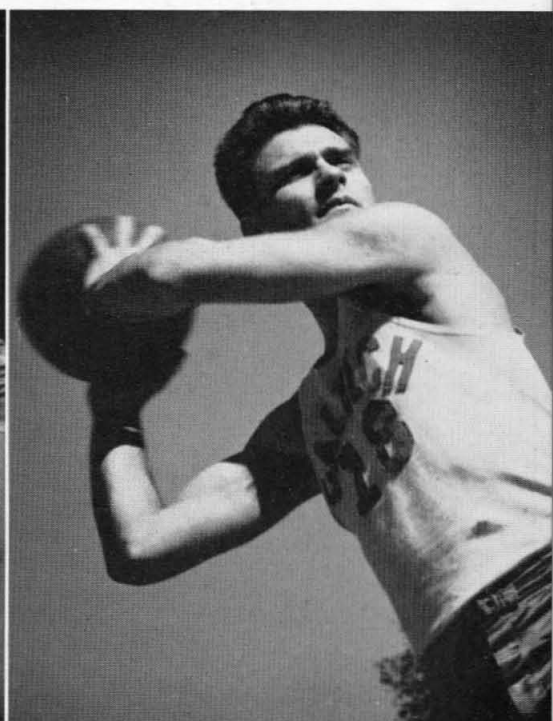
A S K E T B A L L



Don Walter, guard, aiming for the hoop.



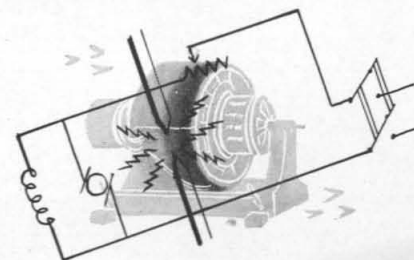
Robert Myers plays his role as center.

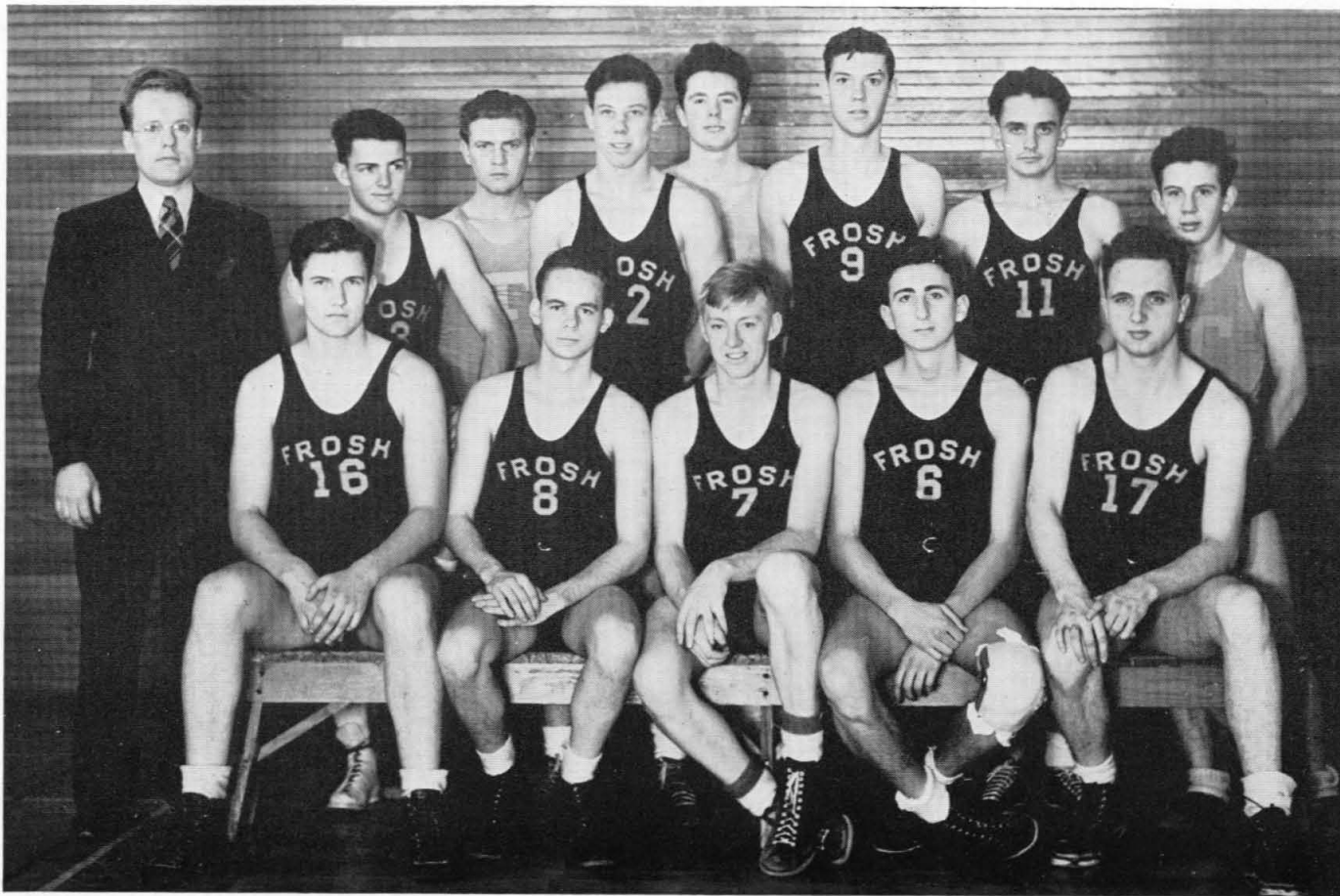


George Reimers, forward, watches for an opening.

The Beavers were led throughout the season by "faithful" Captain Lloyd Goodmanson. Lettermen for the year included Myers at center, Goodmanson, smooth George Kendall, stocky George Reimers, and little Bob Cooper at forwards, while the guards were steady Don Walter, dependable "Gorgeous" George Meyer, and fighting Stan Sohler.

The greatest consolation of the season for the Tech squad was the selection of high-scoring Bob Myers, Caltech's cagiest cager, on the All-Conference team. Myers, captain-elect for next year, finished the schedule high among the scoring leaders of the conference. With several returning lettermen and some exceptionally promising material coming up from this year's frosh cage squad, the Beaver casabamen are looking forward to a more successful season in 1941.





First Row: Dewdney, Shoner, Strickland, Grimm, Loftness.
 Second Row: Coach Price, Fair, Koehler, Anderson, Hodder, McWethy, Nahas, Alpert.

Potentially one of the strongest Tech Frosh basketball teams of recent years, the Beaverbabes suffered several setbacks in closely contested games and finished the season with only a mediocre record. Handicapped by the lack of a home gymnasium, the frosh had to travel nearly five miles every evening to the west campus of Pasadena Junior College. The league opener against Redlands saw the local boys emerge victorious by a 51-33 count. After a closely contested first quarter, the game was Tech all the way with Bob Loftness and Jack Anderson dividing high point honors with 23 and 21 points, respectively. The next week the casaba squad met defeat at the hands of the more experienced and powerful Occidental aggregation. A two game series with the Whittier frosh saw the superior Beaverbabes drop a pair of heartbreakers to the tune of 46-42 and 45-41. The series was featured by injuries which hampered the locals sufficiently to cause them to lose a return encounter with Oxy and to meet defeat at the hands of a stronger Pomona squad. Still incompletely recovered from injuries acquired in the Whittier frays, the Engineers were scarcely able to eke out 34-33 over the Redlands Bullpups. In the final game of the season, the Tech frosh had a comparatively easy time of it in defeating Santa Paula High School 41-29.

Numeral winners were Jack Anderson, Charles Strickland, Bill Fair, Bob Loftness, Dave Shoner, Hal Dewdney, Lou Grimm, and Bob Nahas. Elected honorary captain at the close of the regular season was Charles Strickland. Coach was John Price.

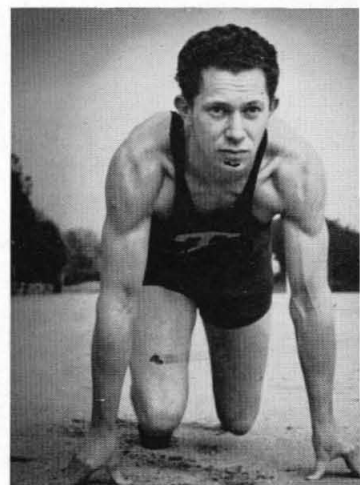
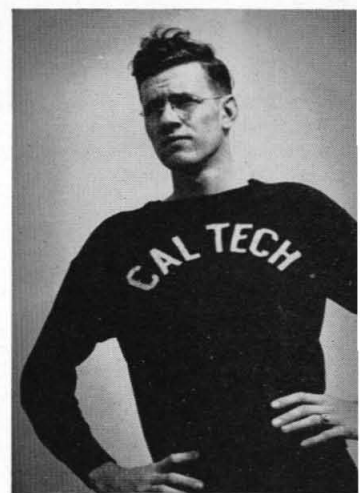
F R O S H H O O P S T E R S



T R A C K

Toward the close of the basketball tilts, the powerful Tech tracksters began their practice toward an eventful season. Although the vitality of the cindersquad was slightly lowered through graduation of some seniors of the previous year, the ranks were replenished to produce even a better team through the entrance of the outstandingly capable new sophomore aggregation. Men of special note from this outstanding group included distance star Art Schneider; sturdy Bob Densmore, also a leatherlunger of the preceding term; Dwain Bowen, Warren Gillette, Frank Wood, and "Junior" Lind. Under the capable and experienced coaching of "Fox" Stanton the spikesters trained during the last part of first term and began with enthusiasm the second term, during which the real tests of team strength were met.

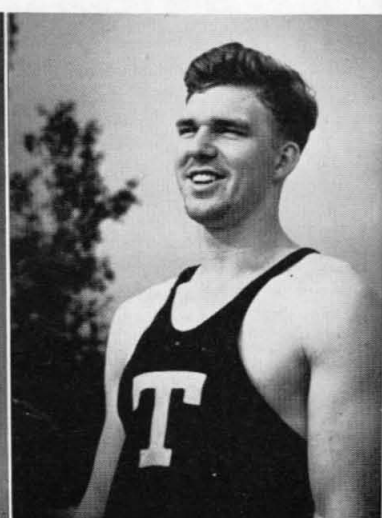
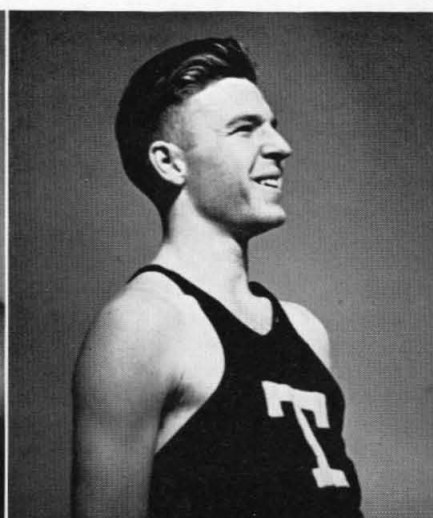
Despite the fact that the varsity track squad failed to win a conference dual meet and placed next to the doormat position in the league finals, Coach "Fox" Stanton's spikemen were the strongest in years and narrowly missed several victories. In the Oxy relays, Tech placed second in the novice four-man mile and distance medley, and third in the four-man 880. At the Long Beach relays, the Beavers earned third at 8 min. 12 sec. in the four-man two mile behind Pepperdine and San Jose State. The distance medley team also made a fine showing in the Fresno relays on May 11.



Captain Keith Anderson
Ralph Willits

First Row: Young, Schureman, Harr, Bowen, Sullivan, Capt. Anderson, M. Staatz, Rupert, Schneider, Goodmanson, Campbell, manager.
Second Row: Coach Stanton, Kupfer, Gillette, Eusey, Lind, Walter, Proctor, Densmore, Wood, McClain, Wahrhaftig, Jongeneel, manager.

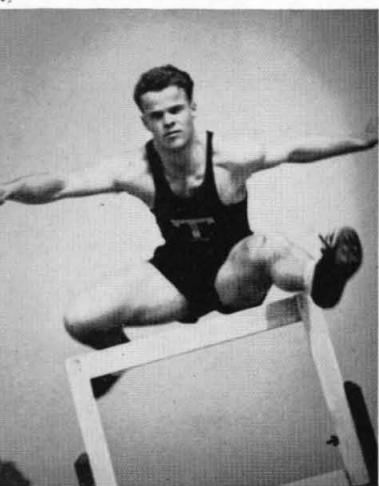




Thomas Elliott

Stanley Rupert

George Lind



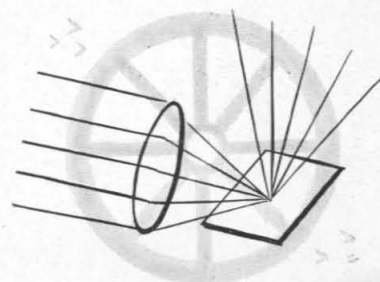
Robert Densmore
Warren Gillette

The first meet of the season brought to light surprising strength in the spikester squad. Although the meet with P.J.C. was lost, it showed that the weight men were to do well for themselves and that additional training would be to advantage for the entire squad. Captain Keith Anderson showed great strength in the 880 to win in 2 min. 5.6 seconds. Schneider won the mile in his usual smooth style, while Stan Rupert repeated this success in the two mile encounter. Dwain Bowen showed fine form, winning the 440 by a very slim margin. In the field events Eusey and Vaughn showed themselves in prime condition as they won in the shot and javelin events, respectively, while Lind did well in the discus to take second with a spin of 118 ft. 11 ins.

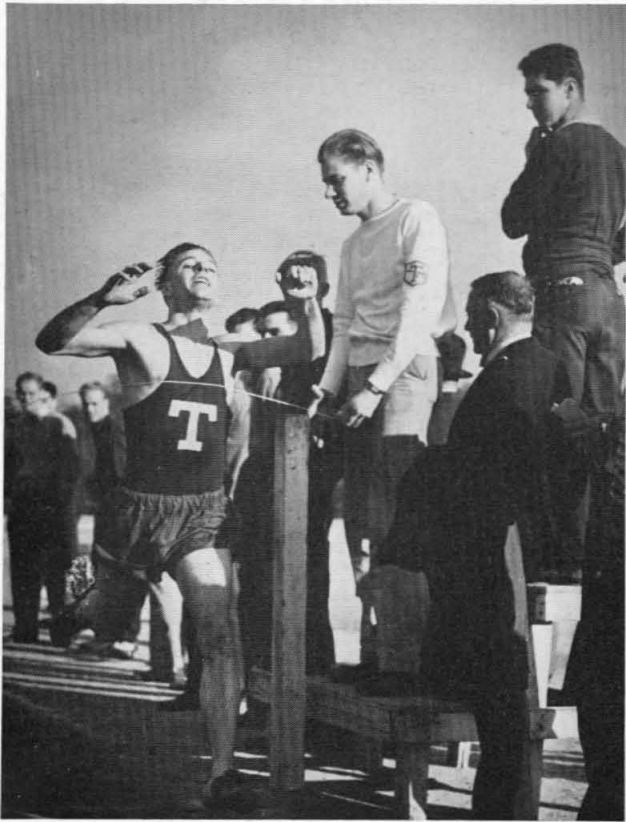
Although beaten 75-56 in the first conference meet of the year, the Beaver lightclads showed unexpected strength in many events. From the first gun until the last two events the outcome of the meet lay in the balance, and only victory in the two mile and the relay gave Pomona the nod. Outstanding for Tech in this meet were George Harr, winner of the 220 yard dash; Merritt Eusey, first in the shot; Art Schneider, who copped the mile; and Lloyd Goodmanson and Tom Elliott who tied for first in the pole vault. Other Tech fleetfeet garnered seconds and thirds, making a strong team showing.

Meeting Oxy the Saturday following the spring vacation, the Stanton-coached aggregation showed the effects of the layoff, bowing to the Tigers, 85-48. In this meet the Eagle Rockers all but swept the dashes, while Tech runners showed superiority in the distances. In the field events, Oxy bareskins grabbed every doubtful point. The best race of the day, the quarter mile, was won by Dwain Bowen who was fouled on the first turn. High scorer for Tech was Art Schneider who nabbed firsts in the two mile and the mile. Other Tech first place winners were Ken Schureman, Merritt Eusey, and Captain Keith Anderson. Bob Densmore copped two seconds for second high scoring honors

R A C K



T B A



Rupert breaks the tape as the judges watch.

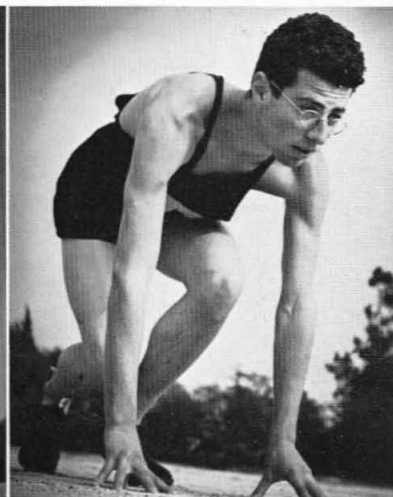
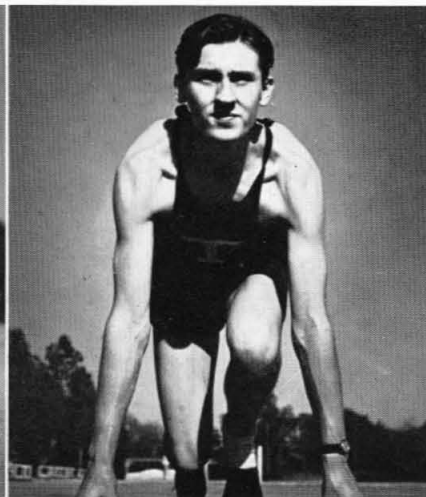
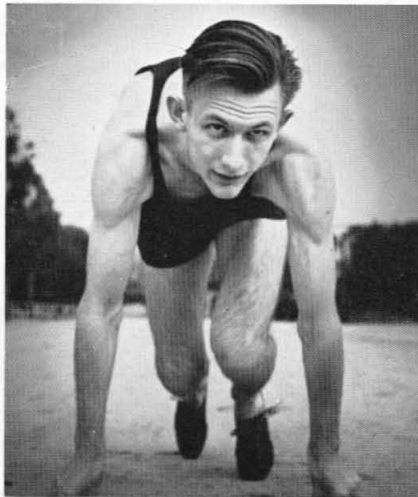
One point separated the Beaver spikemen from an expected victory over the fighting Whittier squad, the score ending 65 to 64. Whittier's powerhouse, named Hughes, earned points in the low hurdles, broad jump, shot put, discus, javelin, and century dash and ran anchor on his winning relay team to dash the Beavers' hopes into the ground. High point men were Bowen, who won the quarter and placed second in the hundred; Art Schneider, who won the mile and came in second in the two mile; and Lloyd Goodmanson, who led in the pole vault and ran second in the highs. Dick Vaughan's first place in the javelin and Anderson, Densmore, and Rupert's easy clean sweep in the half were other accomplishments.

Redlands' squad of flashy field event and distance men defeated Tech by 82½ to 48½. But the outstanding event was Captain Anderson's half, run under two minutes for the first time of his life. Teammate Densmore placed a close second and was also under at 1:59.9. Stan Rupert gave a real battle to Ray Heaton in the two mile and barely lost in the final sprint. Dwain Bowen won the hundred in 10.2 sec. and the quarter in 51.1 sec., while Lloyd Goodmanson won the high hurdles.

Dwain Bowen

Art Schneider

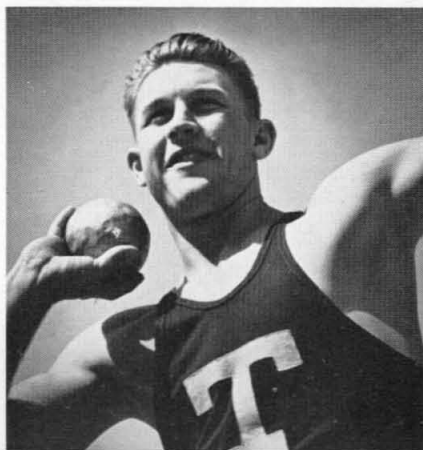
Clyde Wahrhaftig



Merritt Eusey

Dick Sullivan

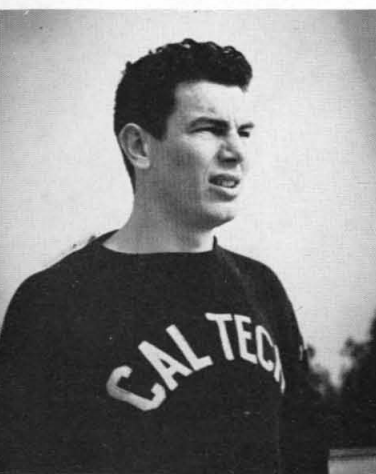
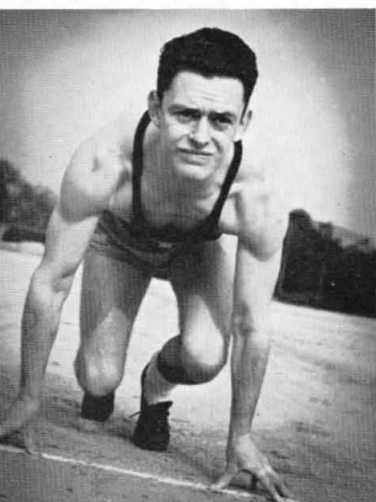
Dick Vaughn



C K

Contrasting the previous year's performances, the Engineers brought home twenty points from the conference finals held at Redlands and nosed out Whittier by two points to place fourth. Outstanding performers for Tech proved to be the distance aces. Art Schneider was surprisingly shoved out of second to place a strong third in the mile, while Stan Rupert ran a beautiful two mile to end second. The climaxing event was the winning of the high hurdles by ASB prey Lloyd Goodmanson. Other standouts were Bob Densmore and Captain Keith Anderson, who placed third and fourth in the half, and Merrit Eusey who heaved the shot 43 ft. 9 in. to take second. Dwain Bowen copped a fourth in the century dash and fifth in the 440, while Goodmanson tied for third in the pole vault, and Warren Gillette took third in the lows.

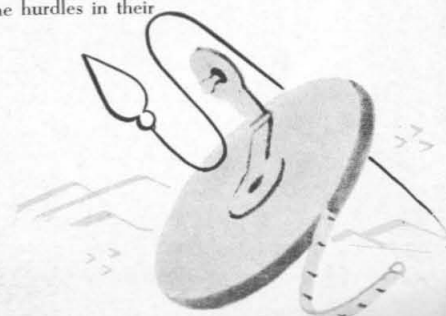
George Harr
Warren Proctor



Ready for the start as they listen for the gun.

Captain Keith Anderson and his teammates get a little advice from Coach Stanton before the lineup.

It's nip and tuck as Tech and Loyola go over the hurdles in their meet on Paddock Field.





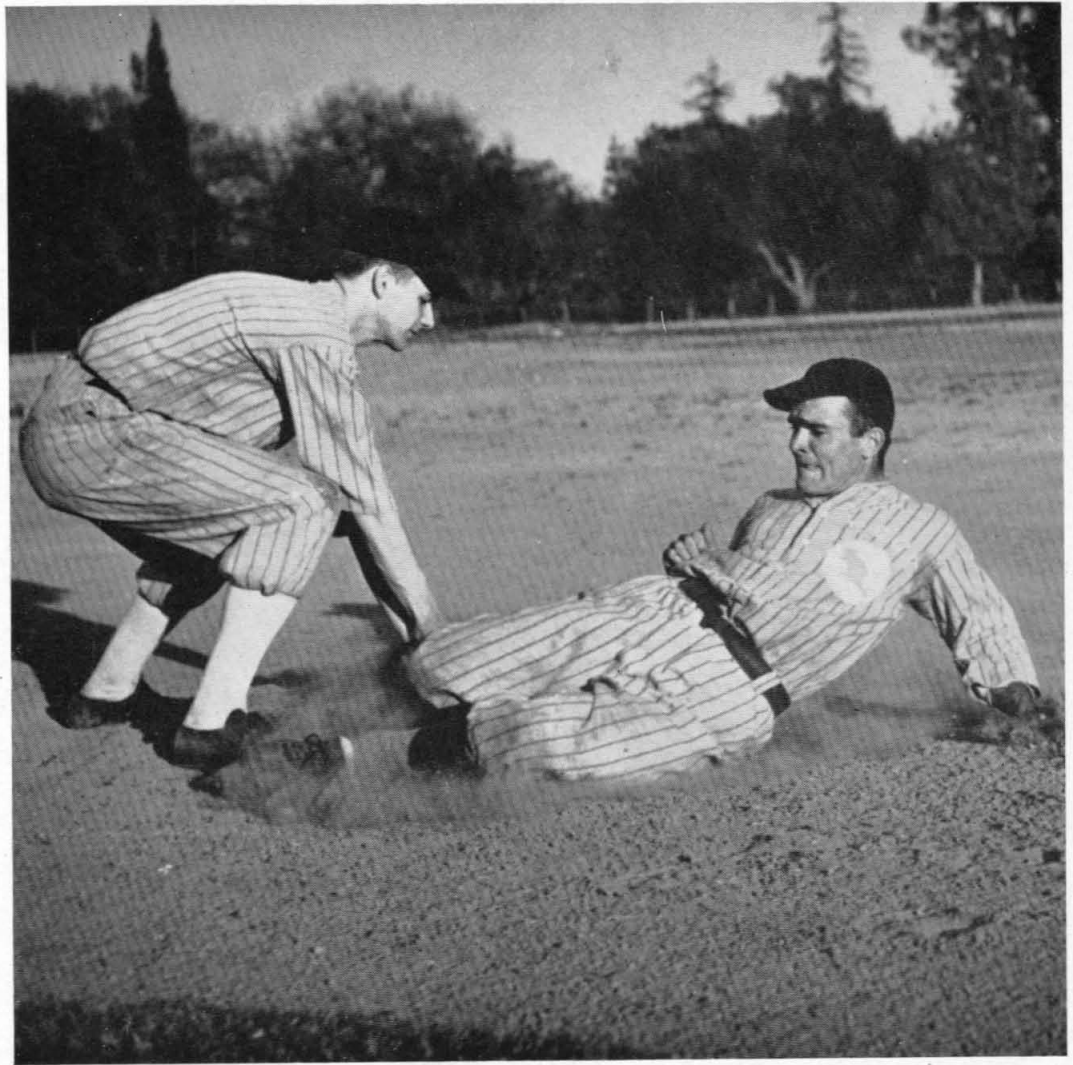
First Row: Farmer, Lassen, Macartney, Wright, Dazey, Anspach, Powlesland, McDougall, Nevill.
 Second Row: Coach Smith, Wheelock, Wheeler, Grote, Brown, Graner, Whitehill, Potts, Luce, Mgr.

F R E S H M A N T R A C K

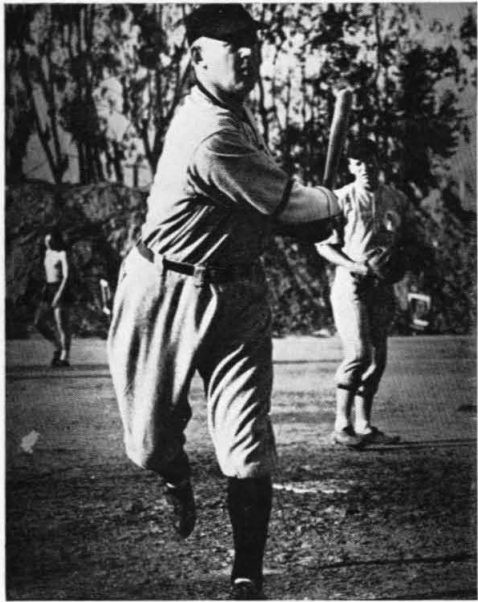
Though not measuring up to the standards set by their predecessors of last year, the 1940 edition of the frosh cindersquad nevertheless had a fairly successful season with two wins and three losses. They placed third in dual meets competition as well as in the Southern California Conference finals.

The first meet of the season was with Montebello High School. Handicapped by lack of sufficient practice to bring them around to tip-top shape, the locals did not exhibit their ultimate strength against the Oilers. The powerful high school squad won the meet, 69-51. Opening conference dual meet rivalry, the Beaverbabes met Pomona, who later captured the league crown. The Engineers were decisively walloped to the tune of 84-47. The following week brought a renewal of the traditional cross-town rivalry with the Occidental Tiger Cubs. The meet, a thriller from the first event, was not decided until the results of the final event were tabulated. Tech, unable to muster enough points, lost the heart-breaker, 69½-61½. Breaking into the win column for the initial time, the Beaver aggregation steam-rolled over an inferior Whittier squad, 101-19. The embryo Engineers showed the same power in knocking over the Redlands Bullpups, 111 to 14.

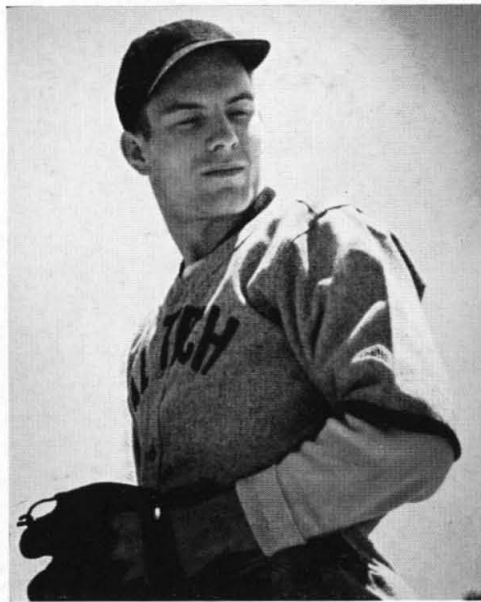
In the conference meet held at Redlands, the frosh tracksters garnered a total of only 19 points as compared to 69½ for Pomona and 40 for Occidental. Sole winner for Tech was Ken Anspach in the quarter mile. Everett Macartney took a very close second in the shot put, while Ben Neville tied for second in the 440. Other point winners were Harry Lingle with fourths in the mile and two mile; Wayne Wheelock, fourth in the 880; and Howard Farmer, with a tie for fourth in the pole vault. The relay team placed second to Pomona.



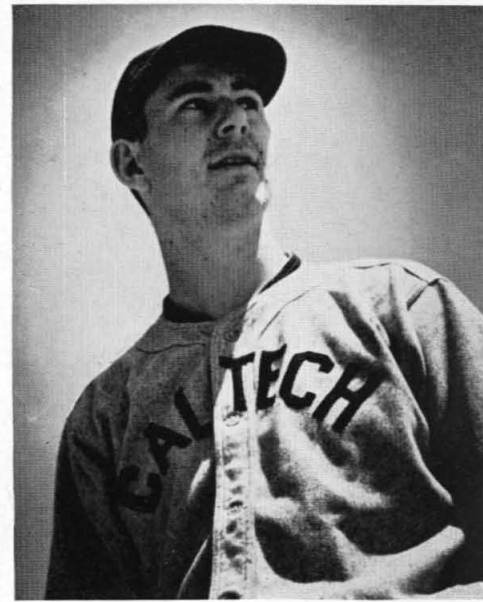
B A S E B A L L



Coach Hal Musselman

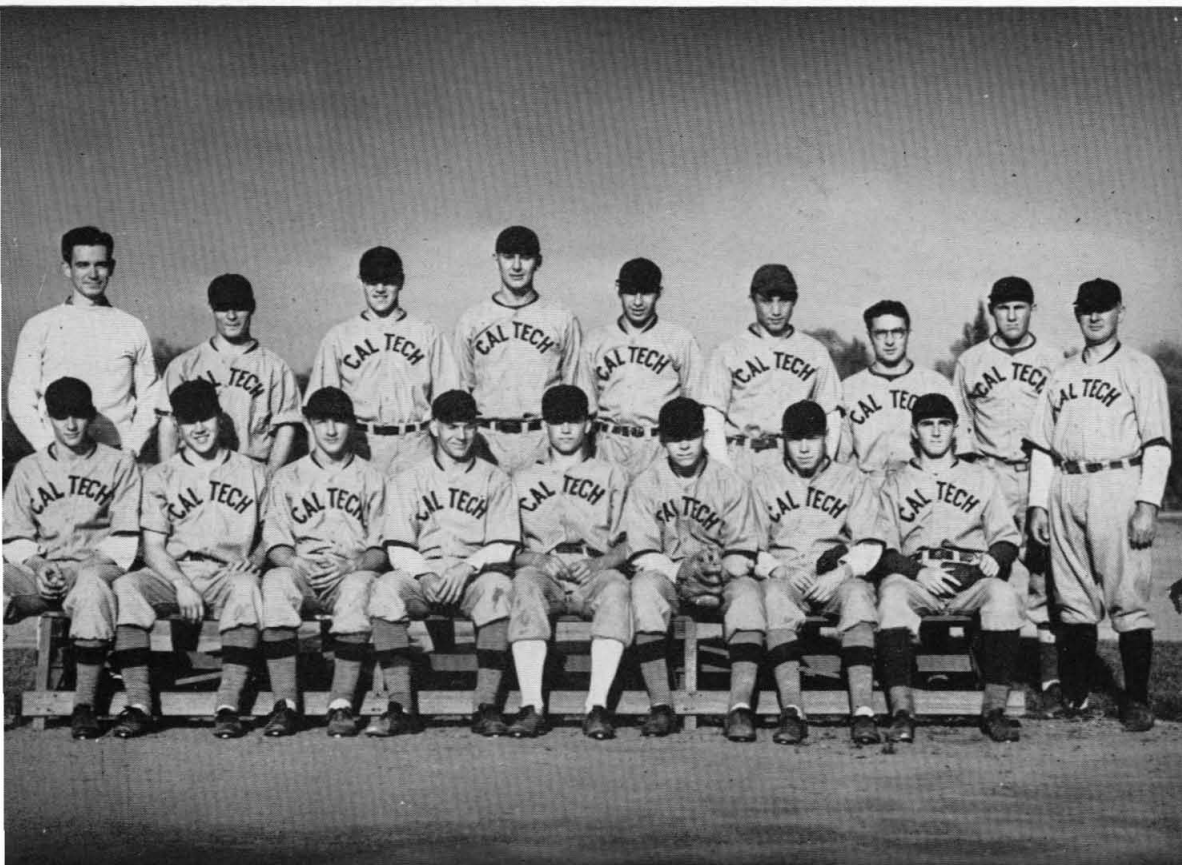


Jim Kemp, pitcher

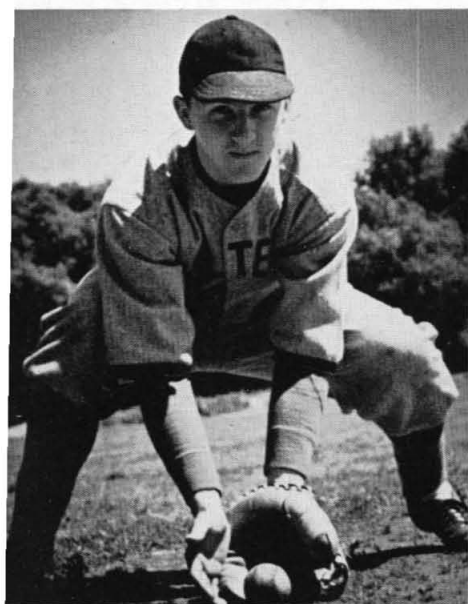


Robert Gewe, catcher

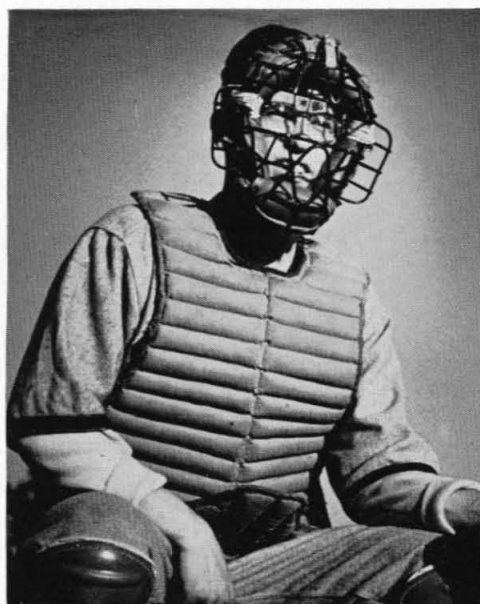
First Row: Callaway, Bowles, Le Fever, Kemp, Roesse, Hedrick, Meyer.
Second Row: Bramhall, manager; Reimers, Myers, Gewe, Tobin, Porter, Davis, Coach Engelder, Coach Musselman.



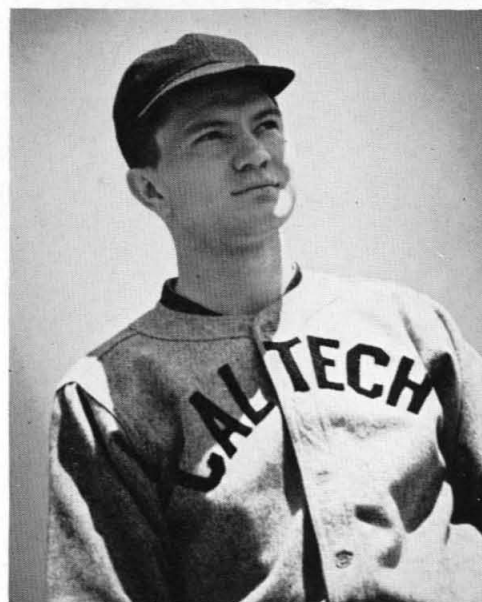
B A



LeFever, shortstop



Roesse, catcher

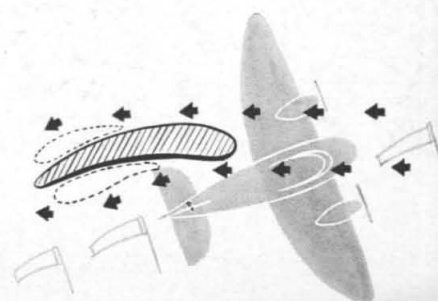


Bowles, second
Billman, third

Although the baseball year has, in general, been a fairly successful one, the entire team has shown possibilities at various times throughout the year which were not realized in a consistent way. As a result, the scores for the year have not maintained the successful winning nature which early practice and season games indicated. The team was again coached by Hal Musselman and was managed by senior manager George Bramhall and junior manager Charles Ruthford.

Favored with perhaps the best material of the past decade, hard working Coach Hal Musselman has succeeded in welding the 1940 edition of the varsity baseball team into a winning one. The gratifying early turnout, liberally sprinkled with veteran performers and promising sophomores, was soon tabbed as a team to watch by rival coaches and players. Though the team did not reach its stride until late in the practice season, the opening of the conference season found it at peak strength—a tribute to Coach Musselman's ability. The personnel of the team which has so creditably represented Caltech this year is made up of some twenty-five members. Those players who have thus far seen conference action are Roesse, Gewe, Hedrick, Calloway, Captain Kemp, Tobin, Corcoran, Noble, Reimers, Bowles, Myers, Le Fevre, Meyer, Billman, Porter, and Davis.

S E B A L L

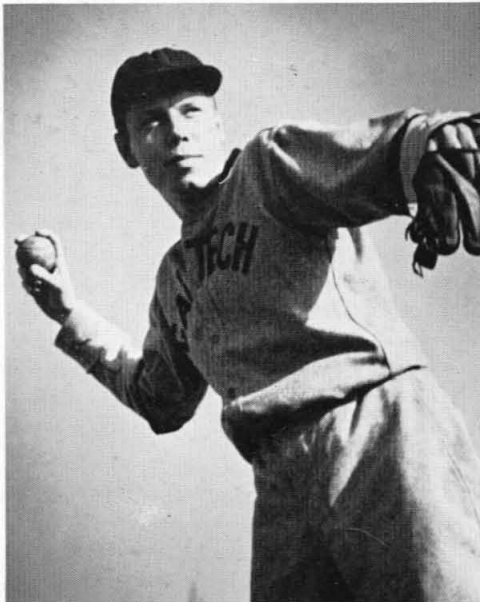


B A S E B A

Though selection of the outstanding player would be most unfair, those men whose absence would be most severely felt are hard-hitting "Hank" Roese, Captain Jim Kemp, "Cab" Callaway, Bob Myers, Bill Corcoran and Ralph Le Fevre. These men have formed the indispensable nucleus that the other players have fitted around as the occasion demanded.

Graduation, although it will take such stellar performers as Captain Kemp, Bob Gewe, and Bob Meyer, will leave a team that will be able to carry on where this year's team leaves off. Indeed, in view of the invaluable experience gained this year by the returning team members, it is not hard to envisage a conference championship team for Caltech next year.

Robert Meyer, shortstop
Langdon Hedrick, pitcher



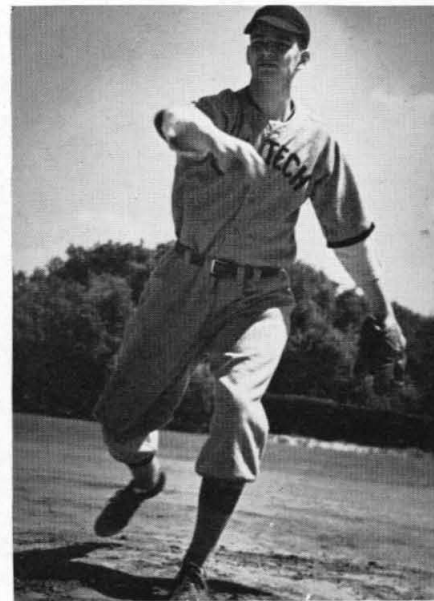
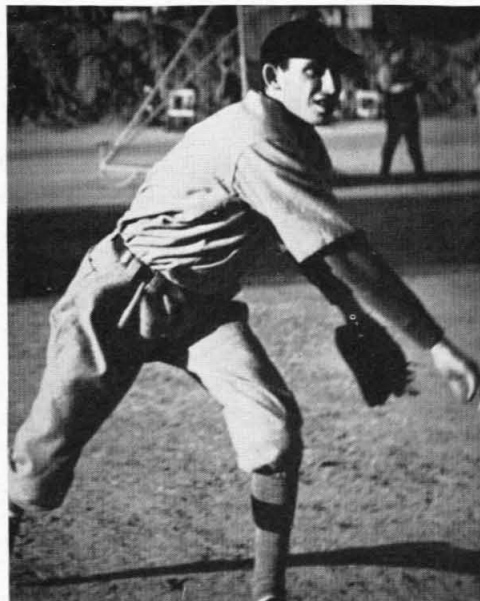
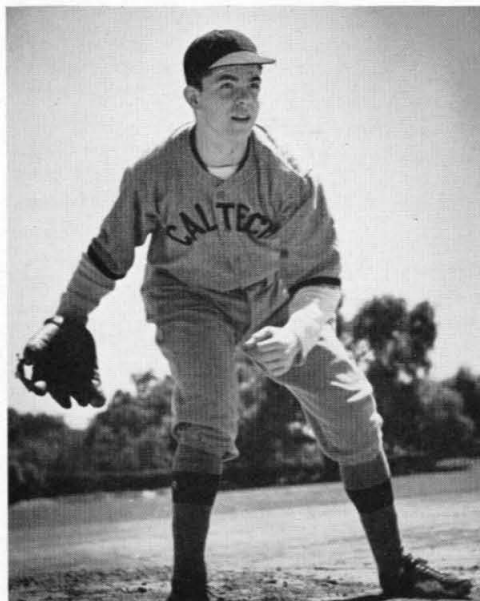
The Caltech varsity nine opened up their Southern Conference schedule on Saturday, April 30, with a doubleheader against the traditional rival, Occidental. Bill Callaway and Langdon Hedrick pitched the Beaver team to two victories over the Tigers. The final score of the first game was 11-6. The second game was a pitching duel between Riedel of Oxy and Hedrick. The Beavers came out on top by a score of 3-2.

Unable to slow down in the fast pace set against Occidental on the previous Saturday, the Caltech baseballers defeated Pomona at Claremont on April 6 in two seven inning games by scores of 21-11 and 7-2.

Feeling rather confident after four conference wins, the undefeated Tech nine traveled to Whittier to engage the Poets in a doubleheader on Saturday, April 13. "Cab" Callaway held the Quakers to one run until the disastrous sixth inning. At the end of the inning the count stood 7-2 with Whittier on top. The second game was Whittier's from the start as Tech never threatened. Final score 5-0.

Bernard Tobin, pitcher

William Callaway, pitcher





Techmen practice on the Paddock Field diamond in preparation for their vigorous season.

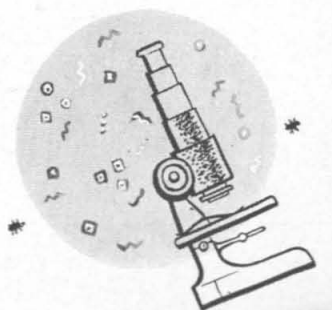
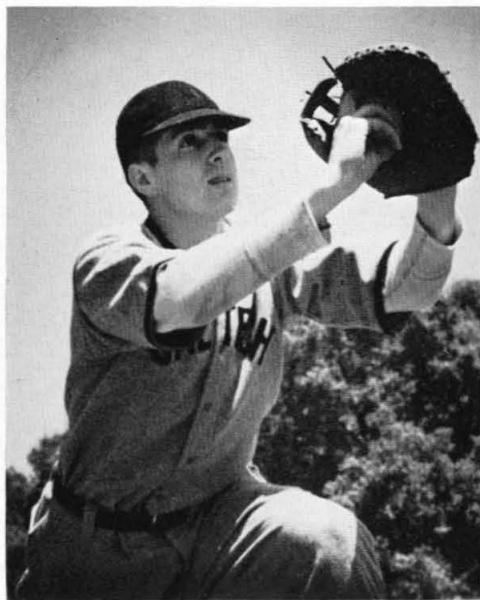
The Beavers played host to the strong Redlands team on Paddock field, April 30. Through timely hitting in the first game the Bulldogs obtained four runs to give them a 4-1 win in the first game. Still fighting, the Beaver was downed in the second encounter by a 7-2 count.

Determined to make up for previous losses the Beaver sharpened its teeth for the home games with Pomona on April 27. Showing both spirit and power, he collected both ends of the doubleheader to the tune of 7-4 and 7-1.

Bob Myers, short



Bill Corcoran, first



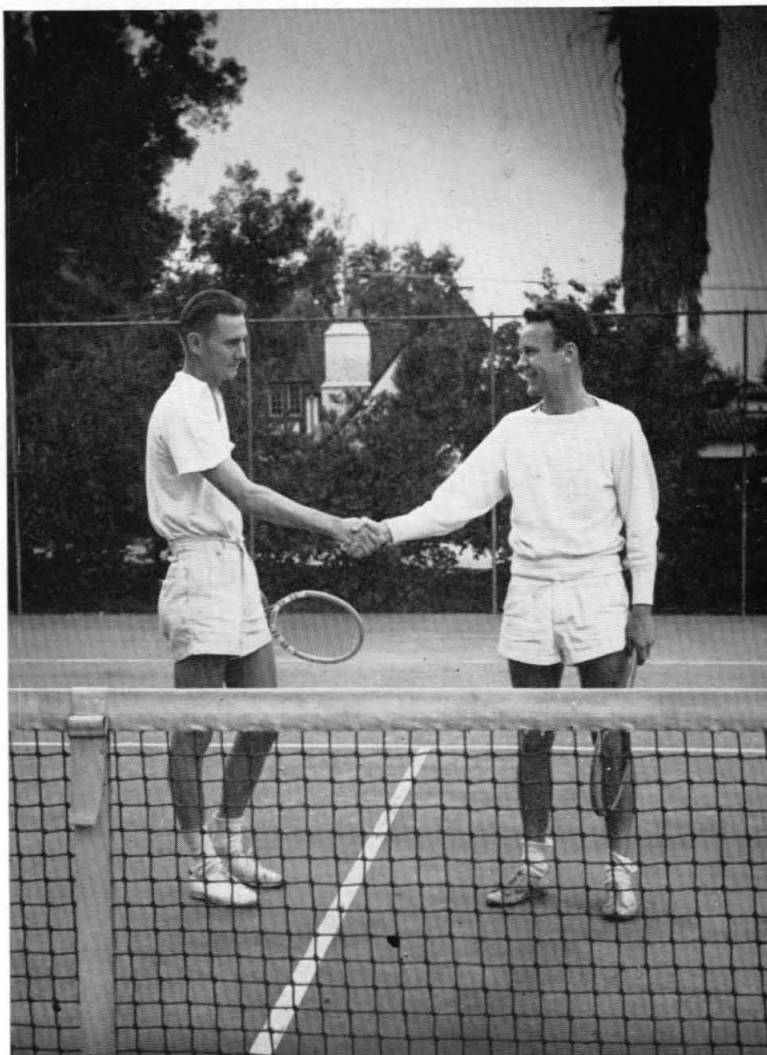


Seated: Schofield, Garner, Marsh, Bashor, Shonerd, Frost.
 Standing: McGee, Hanchett, French, McWethy, Chase, Potter, Rolph, manager.

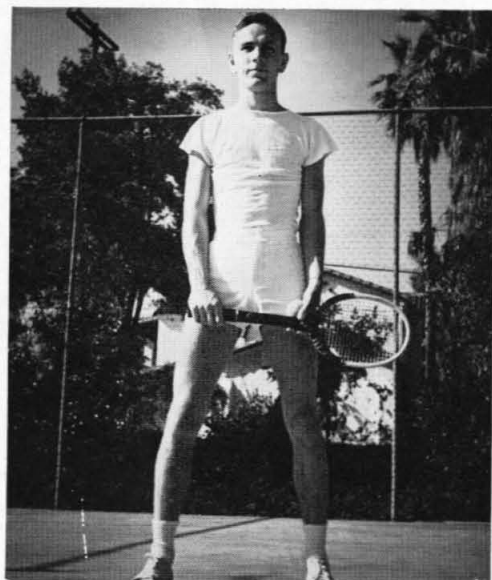
F R O S H B A S E B A L L

One of the strongest of frosh teams was the Beaverbabe horsehide squad. The conference opener against Oxy was won in the last inning, 7 to 6. This game was featured by the fine playing of both sides. With the score see-sawing back and forth throughout the seven innings, the outcome was never fully decided until the very end, when the Techsters banged across three runs. Much improved over the previous week, the frosh met Webb School at Claremont whom they vanquished 9 to 5 in a thriller which at times gave indications of becoming a pitchers' battle. After a third inning rally, however, the result was never in doubt. The third encounter of the season was a free-scoring fray in which the locals turned back the Pomona Sagechicks 17 to 12. A first inning batting spree gave the Baby Beavers an early lead which they never relinquished. Having gained valuable experience in their first three games, the Orange and White squad shows promise of clinching the league championship under the able coaching of Mel Levett.

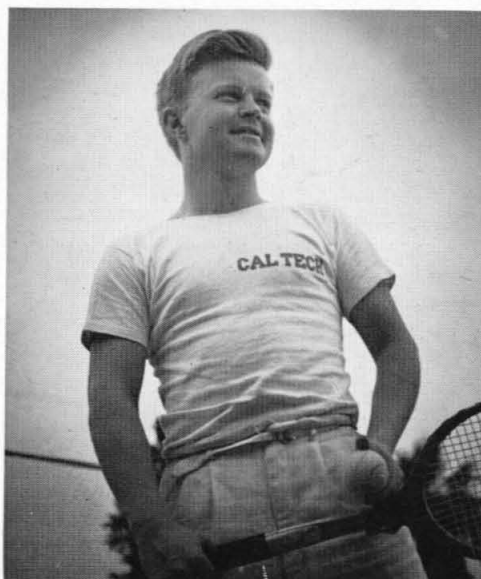
Men who showed outstanding prowess on the diamond thus far were Virgil Richards and Bill Fair, catchers; Ray Tedrick, Pat Chase, and Richards, pitchers; Jack Anderson, first base; Dick Marsh, second base; Bob Frost, shortstop; Dave Shonerd and Dave Douglass, third base; Hal Dewdney, Bob Bashor, and Hollis Hanchett, outfielders.



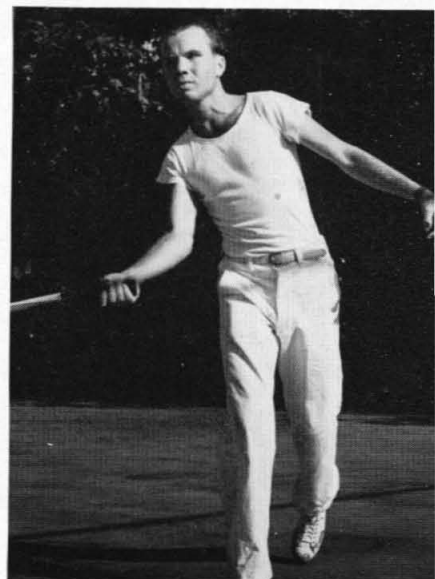
T E N N I S



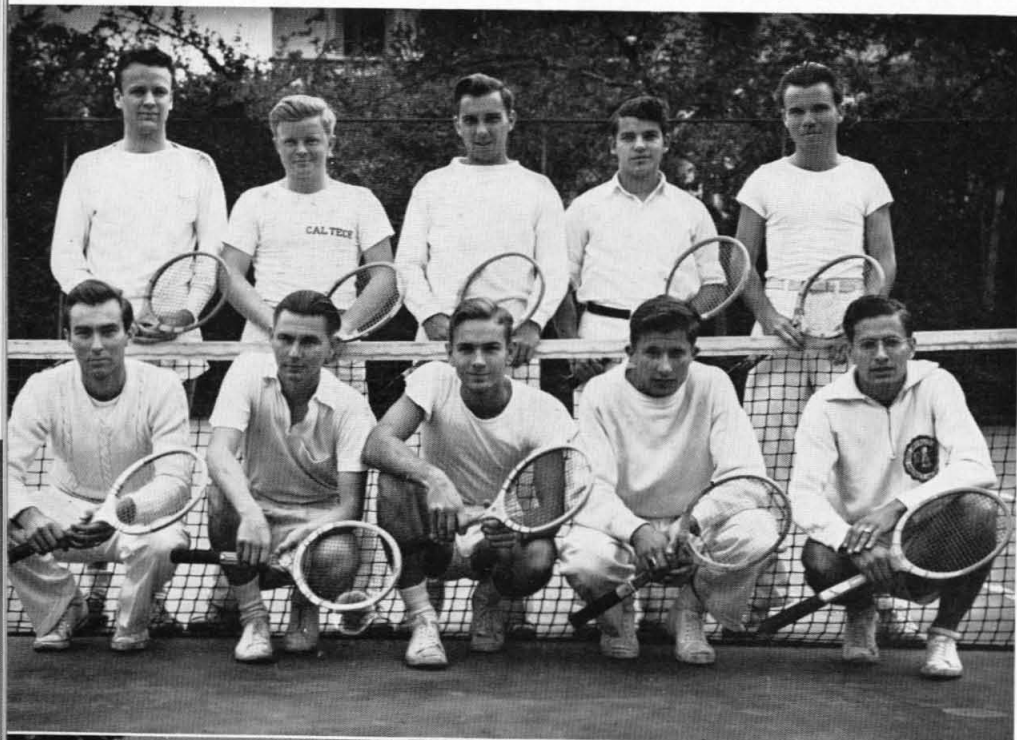
Captain Fred Brunner



Joe Lewis



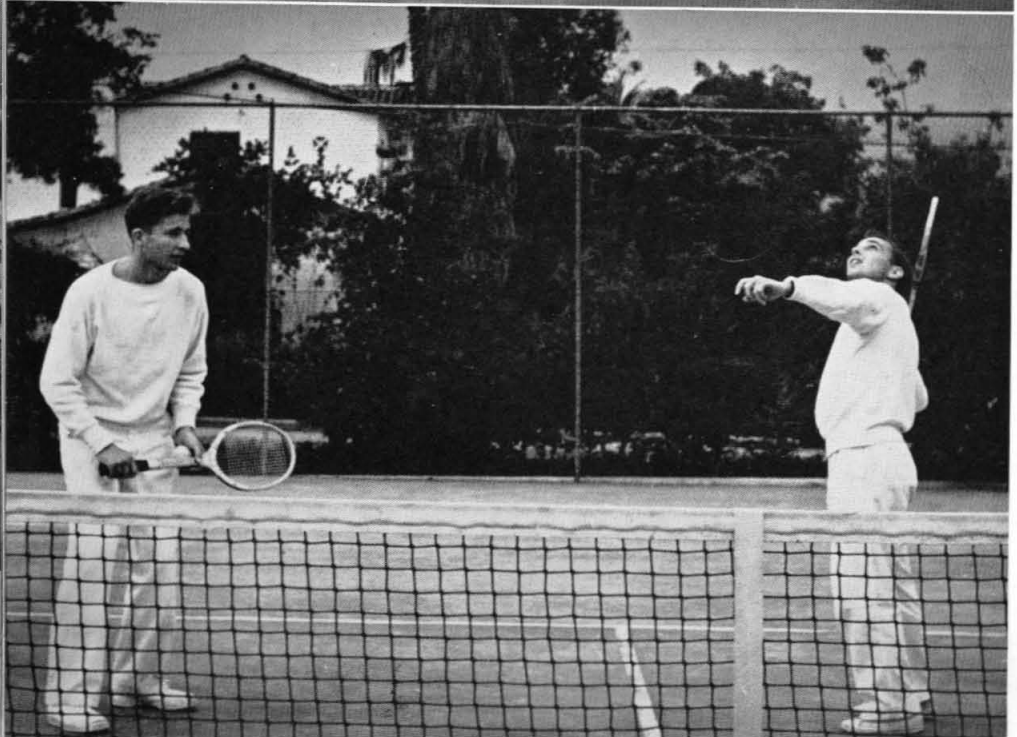
Joe Rominger



The following men were members of the Caltech varsity tennis squad:

First Row: Gayer, Skalecky, Captain Brunner, Fisher, Coach LaSalle.

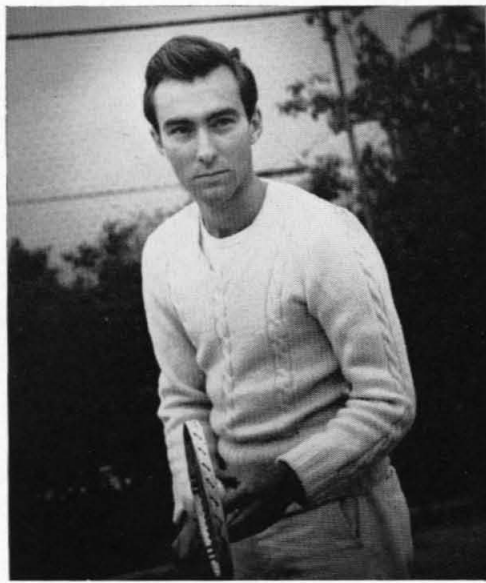
Second Row: Harper, Lewis, Svendsen, Fleming, Rominger.



Svendsen stands ready to return a high serve as Fisher watches, as Caltech's tennis team practices on the Athenaeum courts.



Frank Skalecky



Martin Gayer



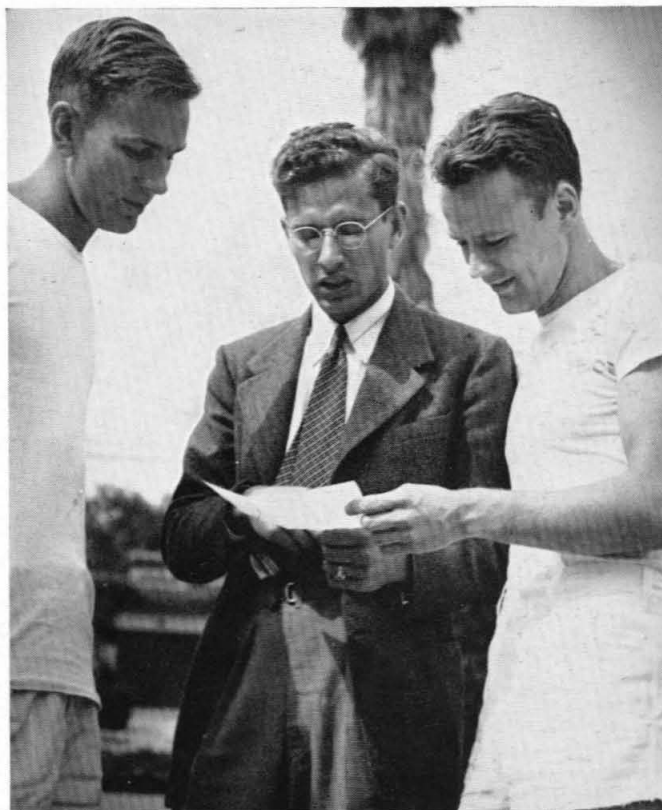
Bob Fisher

This year the varsity tennis team continued to maintain its excellent conference rating by placing second, losing only to the conference champions from Redlands.

Captained by Fred Brunner and boasting five returning lettermen combined with strong reinforcements from the frosh and upper classes, the Beaver netters proved their superiority by decisive wins over Pomona, 6 to 3; over Whittier 8 to 1; and over Occidental 7½ to 1½. At this date return matches are yet to be played with Occidental and Pomona with the Engineers anticipating repeats of their earlier wins. Redlands' strong squad proved to be the only stumbling block for the varsity racket wielders when they were able to score a 7 to 2 victory over the Beavers in the hardest fought match of the season.

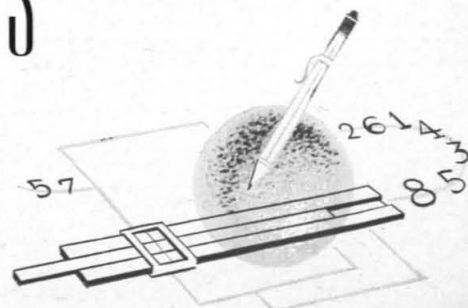
Graduating players include Captain Fred Brunner, John Harper, and Frank Skalecky. Other members of the team were Martin Gayer, Norman Svendsen, Joe Rominger, Bob Fisher, and Joe Lewis.

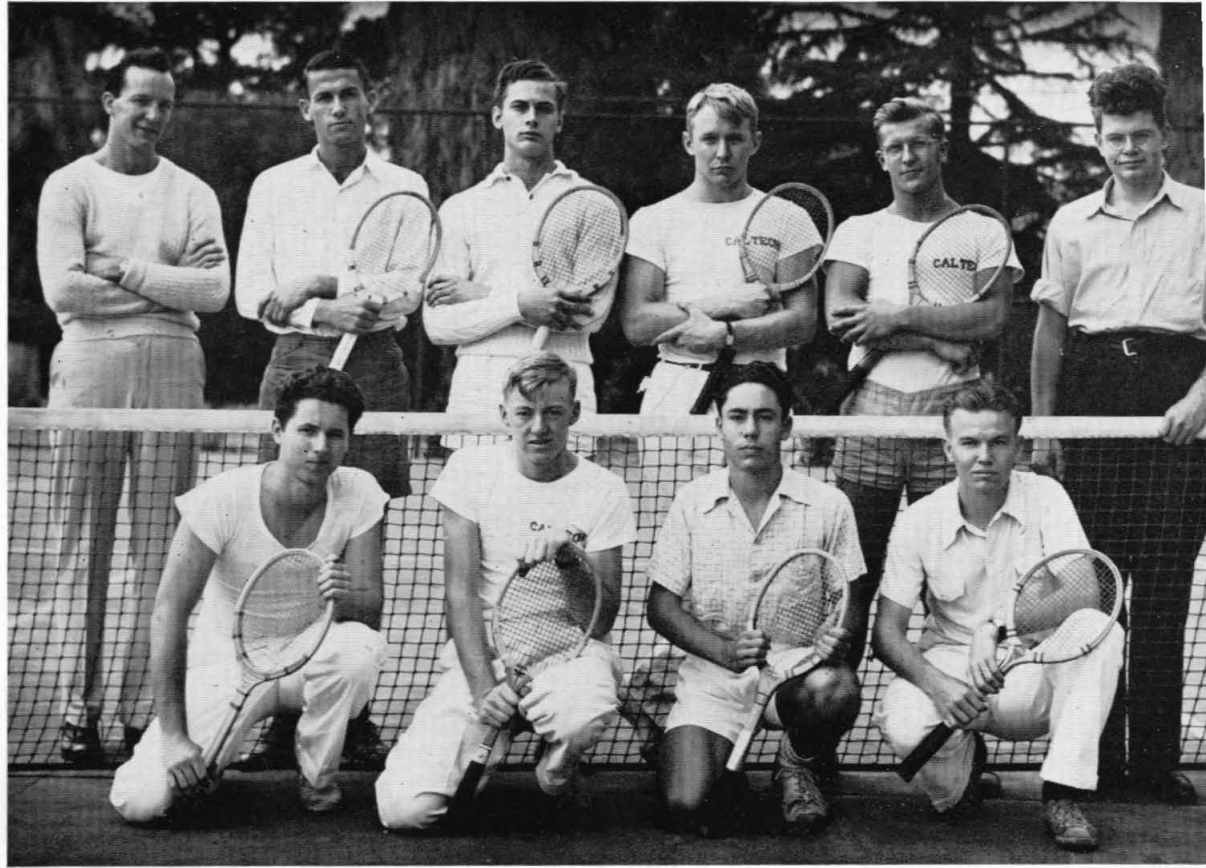
Credit should go to Coach Joe La Salle and Captain Brunner for their part in leading the squad through such a successful season.



Captain Brunner, Coach La Salle, and Harper confer on pairings for the match.

T E N N I S





First Row: Fleischer, Strickland, Briglio, Bragg.
 Second Row: Coach Bradner, Richardson, Adams, Beckstead, Hubay, Pettit, Mgr.

Proving to be the most powerful squad produced at Tech in recent seasons, this year's freshman tennis team won all of its conference matches by decisive victories, as it garnered the mythical conference championship.

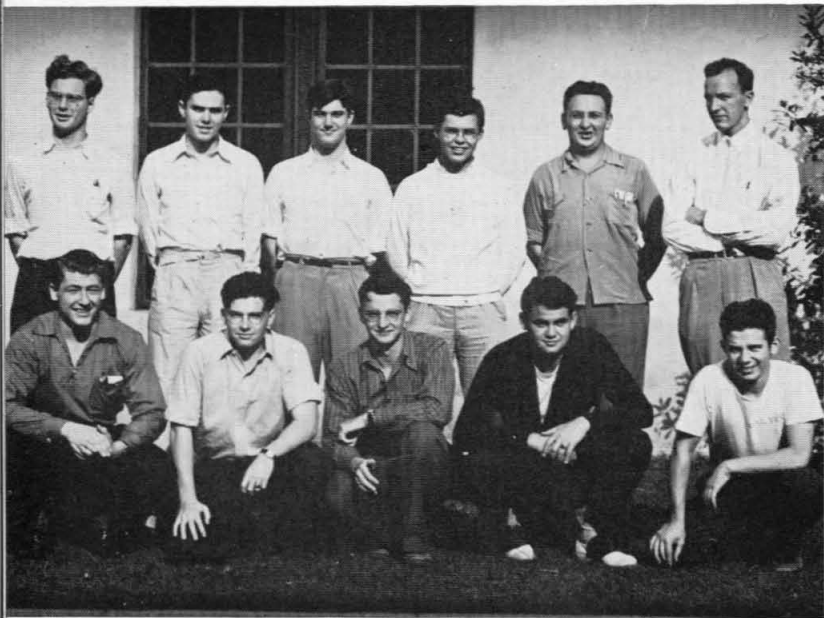
A 6 to 1 decision over Pomona started off the brilliant season. This victory was followed by the defeat of the Engineers' arch rival, Occidental, by a score of 7-2. Redlands and Pomona then fell before the frosh onslaught by respective scores of 7-2 and 4-2. Two high school teams also dropped matches to the Beaverbabe racketeers; Cathedral High by a 7-2 count, and Montebello High 6-3.

The men who made this year's net squad so outstanding were its coach, Hugh Bradner; the top man, John Adams; Charles Strickland; Maurice Beckstead; Paul Hubay; Ed Fleischer; and Bob Bragg, several of whom will undoubtedly be fine varsity players next year.

F R O S H N E T M E N



M I N O R S P O R T S



First Row: Lassen, Bennett, Luce, Safanov, Alpert.
 Second Row: Hull, Dazey, Marshall, Tileston, Giacomazzi, Coach Bradner.

Varsity swimming seems headed for the conference championship this year as indicated by victories over Pomona and Occidental's powerful team. The scores were 54-21 and 49-26 respectively, biggest factor in gathering these points being high pointer Vic Sturdevant, defending conference champion in the 220 and 440 yard free style events.

Bob Merrick and John Richardson have both broken the conference record in the 200 yard breast stroke, Merrick taking five seconds off the record in the Oxy meet. Over-riding all competition in diving is Rube Snodgrass, defending champion in the conference, while Jack Dixon and Jim Harlan have been picking up valuable seconds and thirds.

Since all the men on the team are sophomores and juniors, an even more powerful team is in prospect for next year.

The freshman team, although beaten by a powerful Oxy squad, looks fairly good with Amasa Bishop, George Safanov, and Peter Tileston outstanding and excellent varsity prospects. So far the frosh have lost to Occidental and dropped two to the P.J.C. frosh, although showing great improvement in their second P.J.C. meet.

First Row: Coach Bradner, Sturdevant, Gold, Snodgrass, Merrick, Richardson.
 Second Row: Giacomazzi, Cox, Woods, Dixon, Drake, Fox, Oakes.

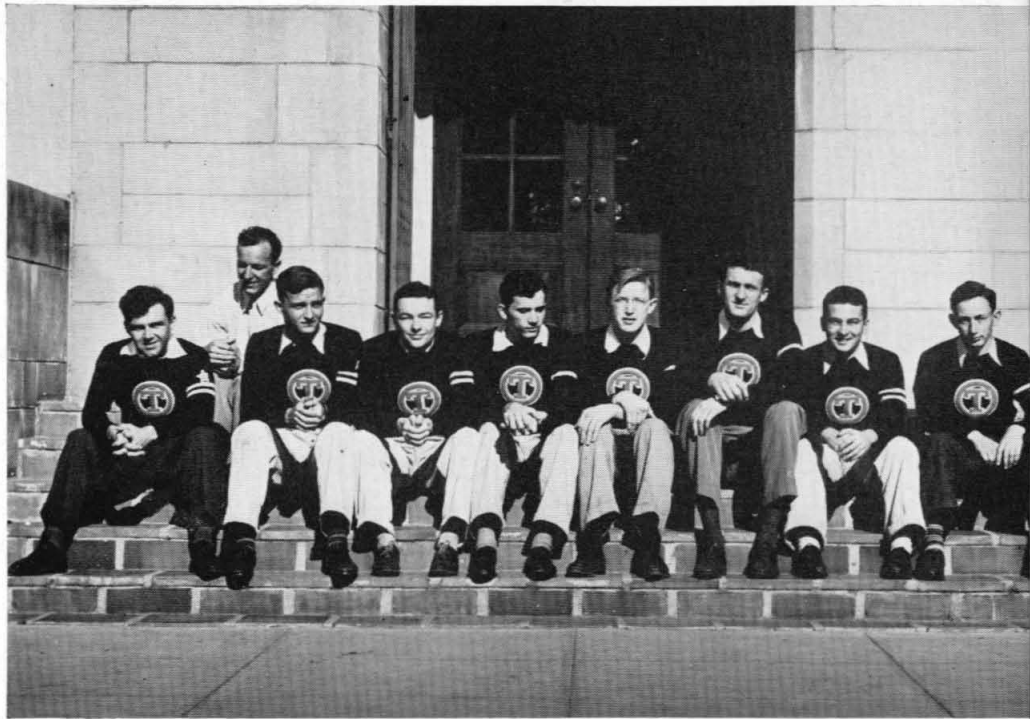


S W I M M I N G

W A T E R P O L O

Water polo proved its worth this year in a highly successful season. In defeating Occidental 4-3 the squad clinched the conference title and was forced to look elsewhere for competition. Los Angeles City College was beaten, while the team showed up well in losing to such powerful schools at U. C. L. A., U. S. C., Fullerton, Compton, and San Jose State. Losing only one man by graduation, and gaining several good prospects from this year's frosh team, next year's squad should again win the conference title and make a good showing against the larger schools. Ten men received their letters: Rube Snodgrass, Vic Sturdevant, Bob Merrick, Hank Hohwiesner, Syd Gold, Jack Dixon, Zeke Davis, John Drake, Dick Cox, and John Richardson. Captain for the year was Rube Snodgrass. As usual the men were handicapped by the lack of a pool and were forced to do most of their practicing at P.J.C. Hugh Bradner again coached both the water polo and swimming squads.

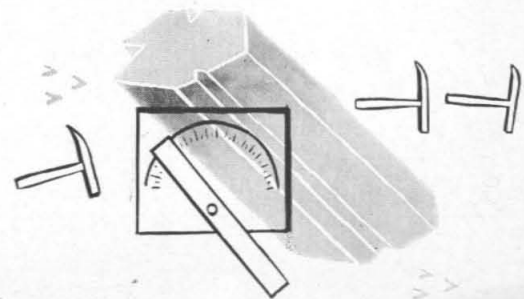
This year's freshman water polo team was handicapped by a lack of previous experience but developed several prospects for next year's varsity in making good showings against more experienced squads such as Occidental. Lettermen were: Amasa Bishop, Ralph Marshall, Tom Lee, Byrne Hull, Dave Sheldon, Mitchell Dazey, Leonard Alpert, Herb Lassen, and George Safanov, captain. Coach was Hugh Bradner.



In Front: Snodgrass, captain; Sturdevant, Gold, Cox, Dixon, Richardson, Davis, Drake.
In Back: Coach Bradner.



Techmen maneuver for position as San Jose State starts an offensive play under the lights at Pasadena Junior College swimming pool.



CROSS COUNTRY



Kneeling: Whitehill, Wheelock, Anspach, Flavell.
Standing: Dr. Hanes, coach; Wood, Rupert, Anderson, Wahrhaftig, Grigg, Spooner, manager.

Schneider leads the field as Tech dominates in the cross-country run against Oxy in the Rose Bowl.

The strongest showing of Tech athletes during the first term was given by "Doc" Hanes' cross-country squad. In the first encounter with La Verne, Art Schneider won the three mile event, Densmore placing third followed by Frank Wood. This victory was supplemented by a one point defeat dealt to Pomona the next week and an easy win over Oxy's harriers between halves of the Tech-Pomona football game in the Rose Bowl. Ray Heaton of Redlands had poor support for his first place in the Bulldog encounter and Tech won again. In the conference finals on Indian Hill at Claremont, Tech took second three points behind Pomona.





John Harris, yell leader, assisted by John Barber, left, and Leighton True, right, had the difficult job of working up enthusiasm at Tech football contests.

The fire from the side lines to support the year's strong gridiron team was under the direction of yell leader Johnny Harris. More than once the call was "Hold that line", but Johnny was always on the spot and his enthusiasm carried the grandstands over many an otherwise droll moment. Johnny's reward came in the La Verne game which ended the season. He worked the spectators into a high pitch to help push the pigskin over twice and win 13 to 6. Assistant yell leaders Leighton True and John Barber organized much of the yelling and provided variety. In a campaign based largely upon popular appeal, Kenney Weir won the elections for next year's yell leader. Beginning with frosh camp next fall, he will represent Tech spirit to the incoming frosh.

Y E L L L E A D E R S





In one sense this book is complete, but in a greater sense, like life itself, it is but an episode—a single chapter in the continuing life of the California Institute of Technology. As shadows lengthen over this school year we can see it as but a stepping-stone to the future year over which the light of tomorrow will break as does the light of the rising sun over the Olive Walk. And so the students of the California Institute offer this Big T, not only as the record of one eventful year but as a prelude to a greater year to come.

P R E L U D E



A Great Institution—Caltech in a Beautiful Setting—The City of Pasadena

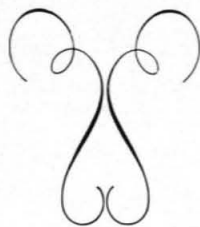
Chamber of Commerce and Civic Association
of Pasadena, California

Congratulations to the Graduating Class of 1940 of the California Institute of Technology



The rapid progress of the electrical industry has been due, to a great extent, to the constant research of the technical schools of the country. The thousands of additional uses of electricity in industry, commerce, research and home can be largely credited to these schools.

Therefore, it is with a great deal of pleasure that the Municipal Light and Power Department of Pasadena extends its congratulations to, and best wishes for the success of, the members of the Class of 1940, California Institute of Technology,
Pasadena, California.



ALUMNI ASSOCIATION
CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CALIFORNIA

TO THE MEN OF '40:

A new world is ahead, and in it you find the hand of the Alumni Association extended in congratulation and greeting. When you leave the Institute to enter your life work, you will find this alumni organization of substantial help in meeting those larger problems which will face you, and in promoting those friendships which will play a large part in your success.

As a member of our organization, you will enjoy our general dinner meetings, dances, informal get-togethers, and our annual Stag and Field Day. We will attempt to keep you in touch with Institute activities and advances in your chosen profession through our Seminar Week-End program. Best of all, we sponsor, in cooperation with the Institute, a Placement Service open to you whether you are seeking employment or looking for a better job.

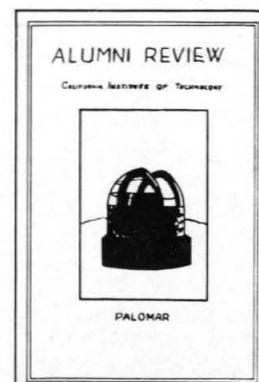
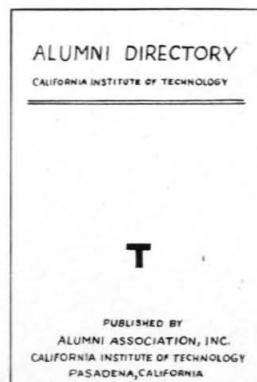
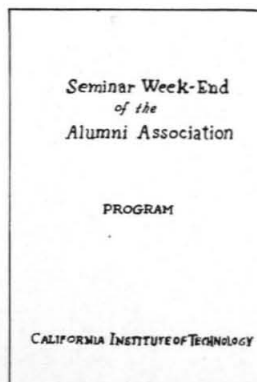
Join the more-than-a-thousand other Tech men who profit by membership in our group and convince yourself that our Association is probably doing more for its members than any other non-subsidized alumni association in the country. Contact our campus office if you would like to join us or if we can serve you in any way.

Heartiest congratulations and every wish for that success toward which every Tech man looks forward!

Sincerely,

Lawrence F. Kiech

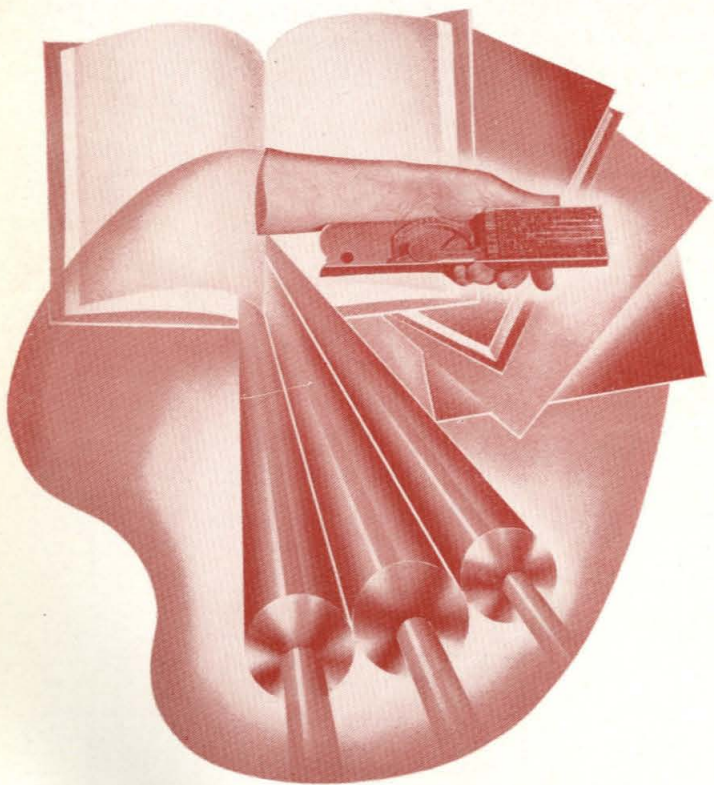
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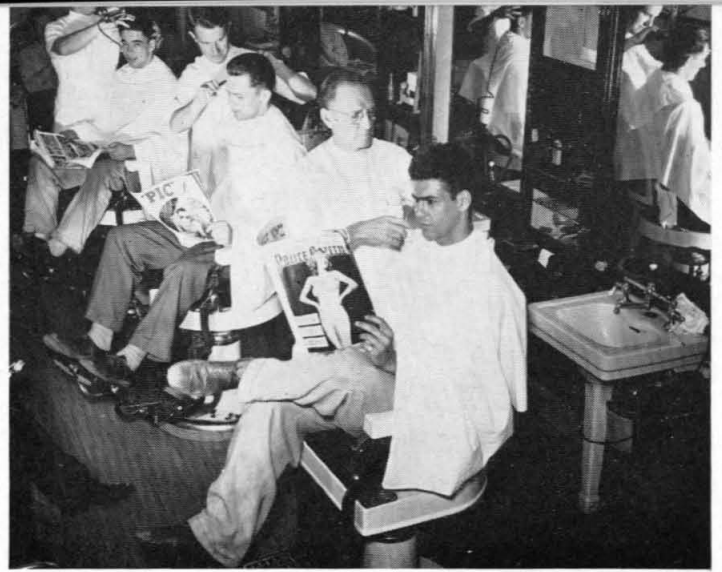
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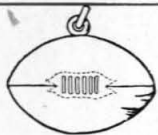
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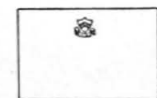
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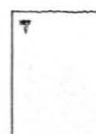
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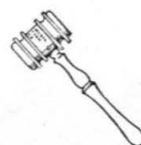
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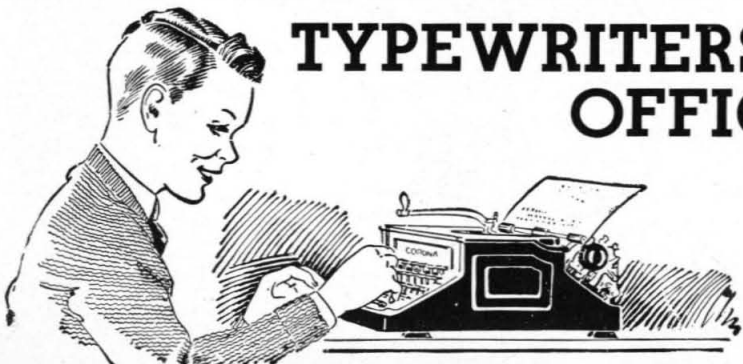
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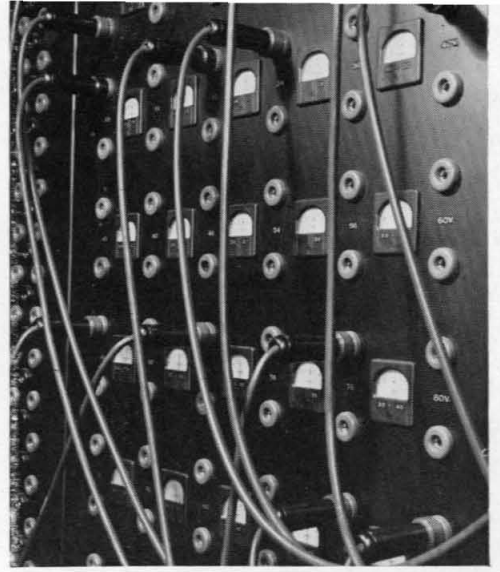
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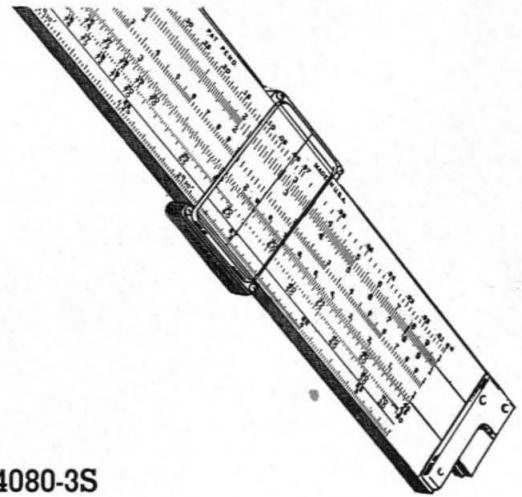
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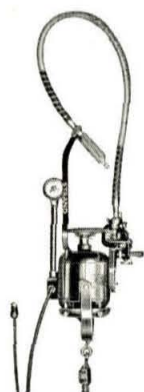
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