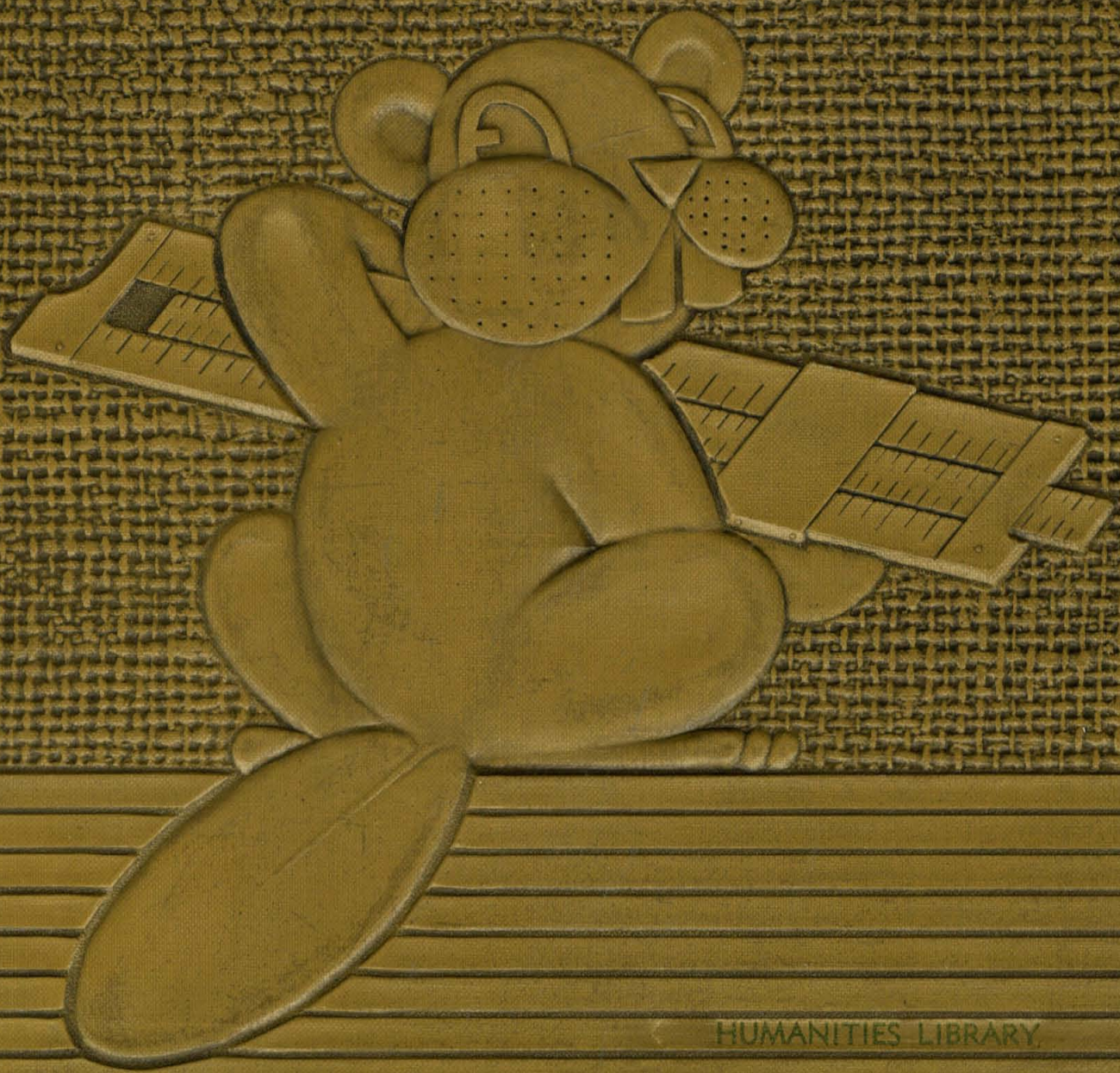


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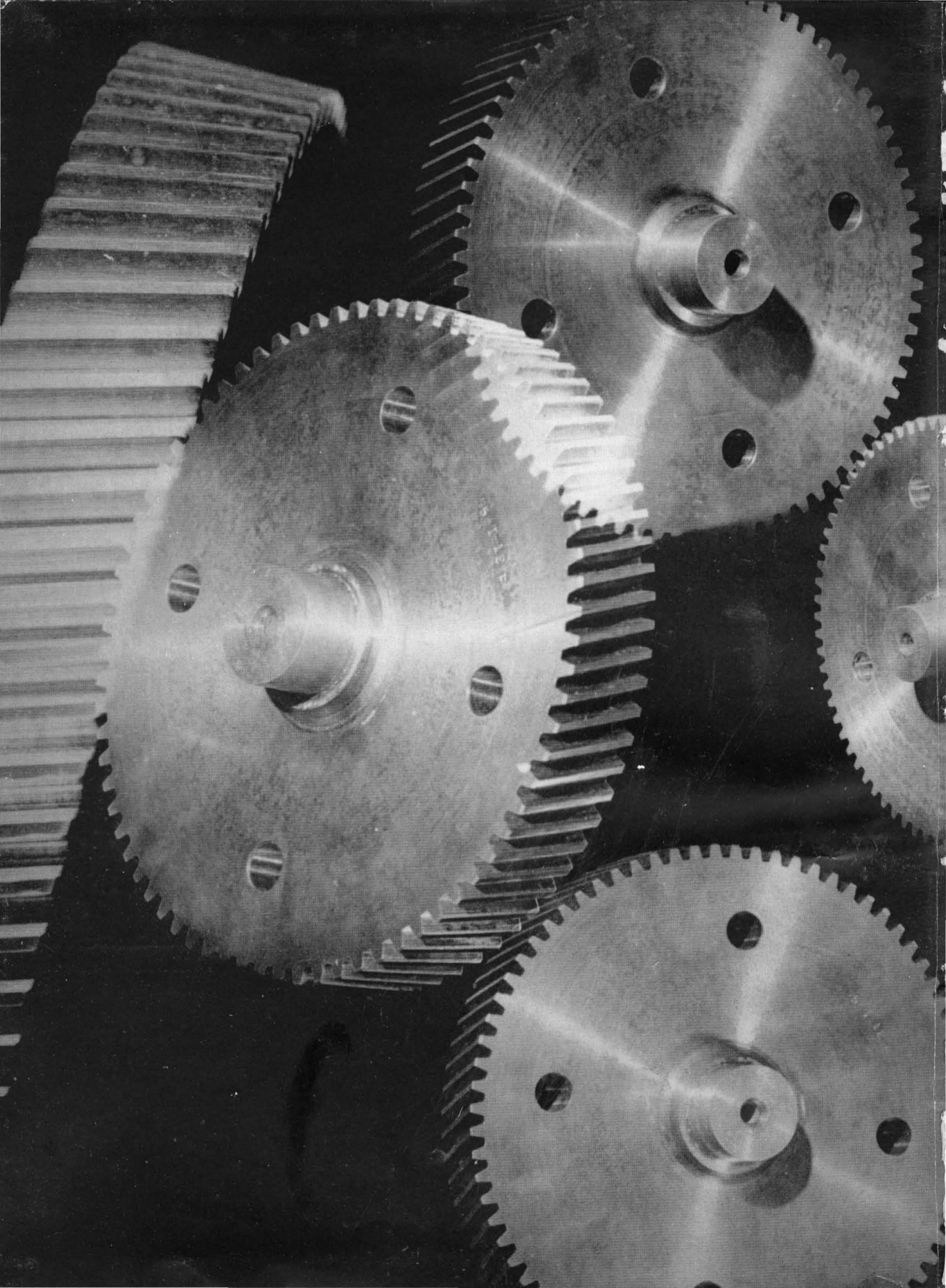


HUMANITIES LIBRARY

THE BIG T

1942





THE BIG T

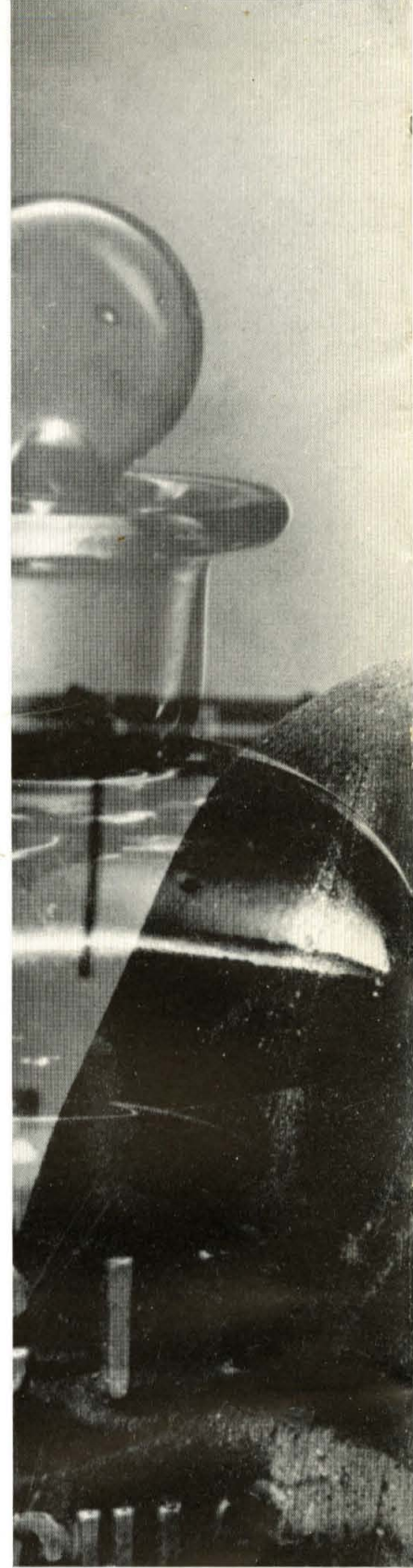
Nineteen forty-two

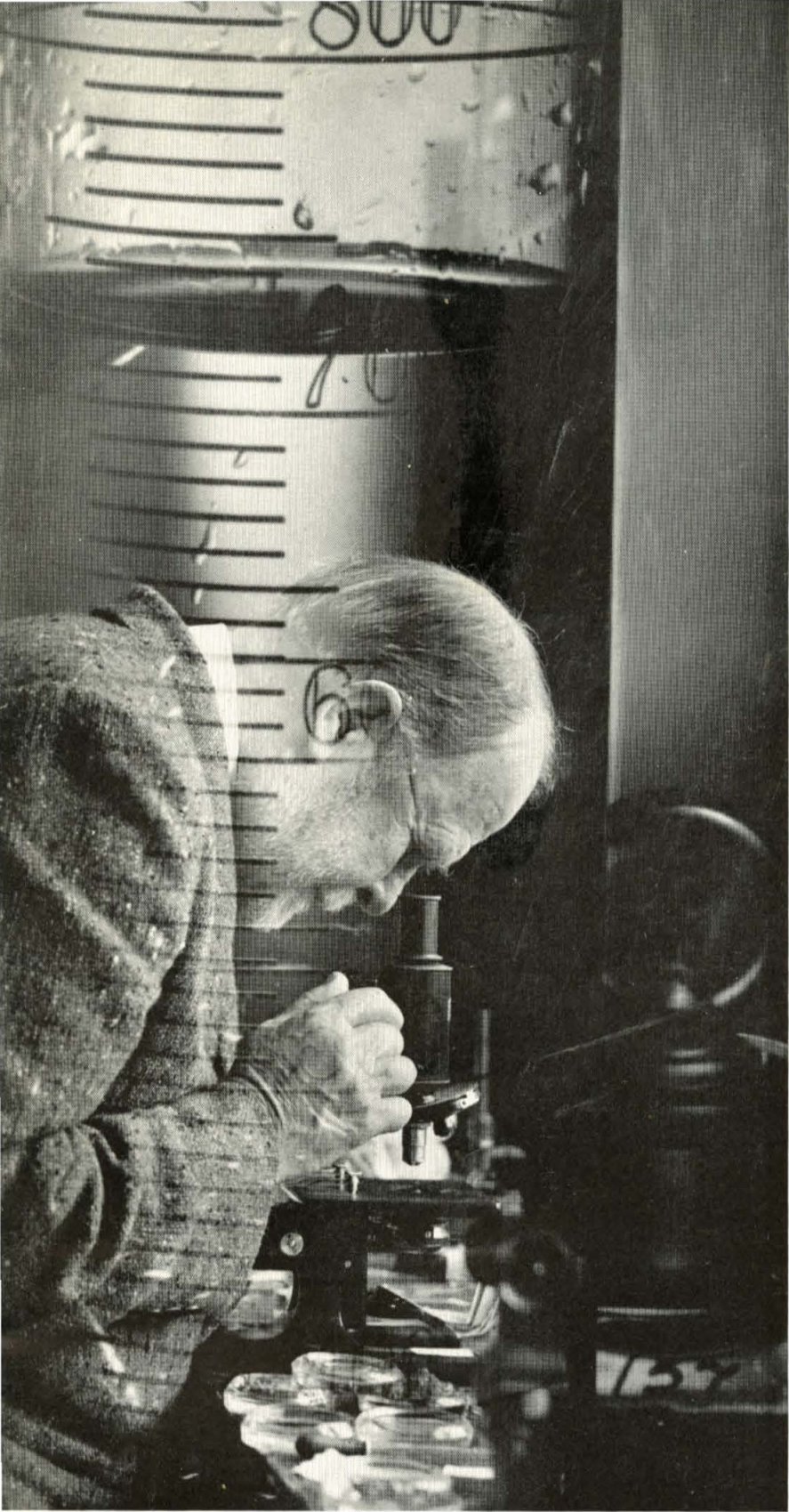
Robert E. Densmore Jr. Editor
John F. McClain Jr. Business Manager

Published by the Associated Student Body
California Institute of Technology,
Pasadena, California. Copyright 1942



Not to an individual, not to a class, but to all men of science this book is dedicated. The chemical engineer producing synthetic rubber, the geologist discovering chromium, the biologist preparing vitamins for defense workers, the naval architect designing better ships, the engineer enlisting in the Army, and the physicist improving bombsights equally share the important role of directing today's vital defense production and preparation. To these engineers and scientists we dedicate this book.

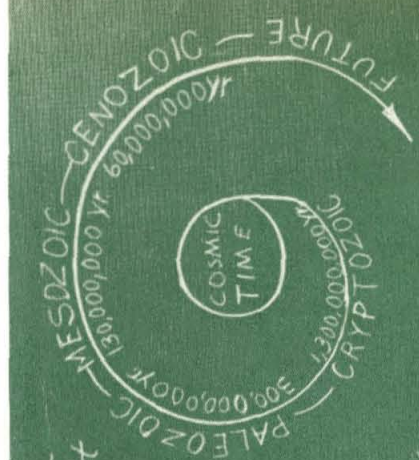




T O M E N

O F S C I E N C E

Day



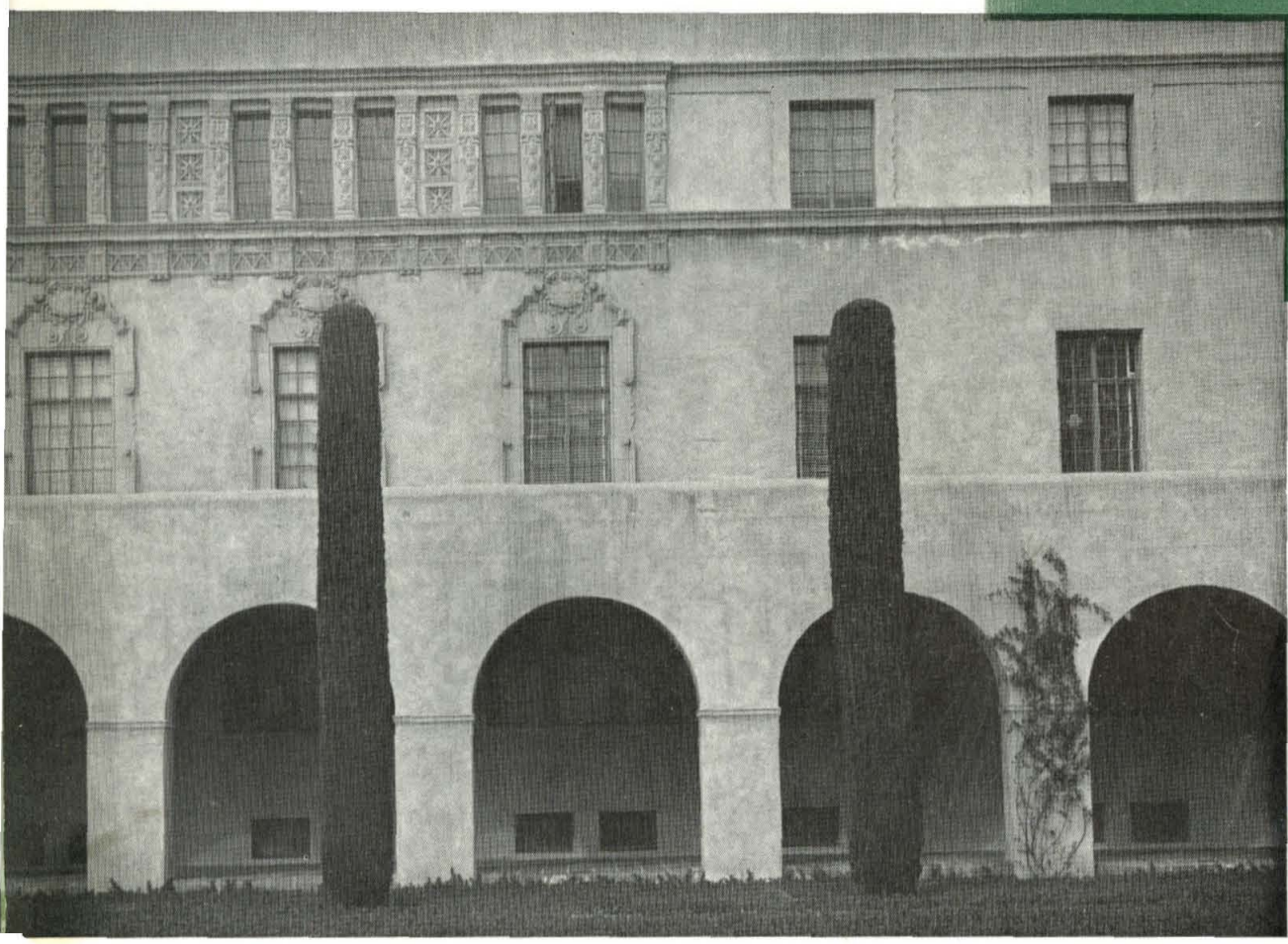
$$F_d = \frac{0.05 V_m (bc + F_t)}{0.05 V_m + (bc + F_t)^2} + F_t$$

$$S = \frac{M \zeta}{I} \int_S E dS = 4\pi r^2 q$$

$$e = iR + L \frac{di}{dt} + \frac{1}{C} \int_0^t i dt$$

$$P_n(z) = \frac{1}{2^{n+1} \pi i} \int_C \frac{(t^2 - 1)^n}{(t - z)^{n+1}} dt$$

$$dE = q - w = \left[\zeta_p - P \left(\frac{\partial V}{\partial t} \right)_p \right] dt + \left[\zeta_p - P \left(\frac{\partial V}{\partial t} \right)_p \right] dp$$





Both day and night the class rooms are seldom empty. Daytime finds students receiving instruction in courses streamlined to essentials. In the evening their seats are occupied by defense workers learning new technique and theory.

Students have responded to the present need for trained men with more concentrated application to their studies. This in turn has demanded more complete relaxation in between times: more spirited participation in athletics, an expanding whirl of social affairs, and a student body government extended to include civilian defense activities.

and Night



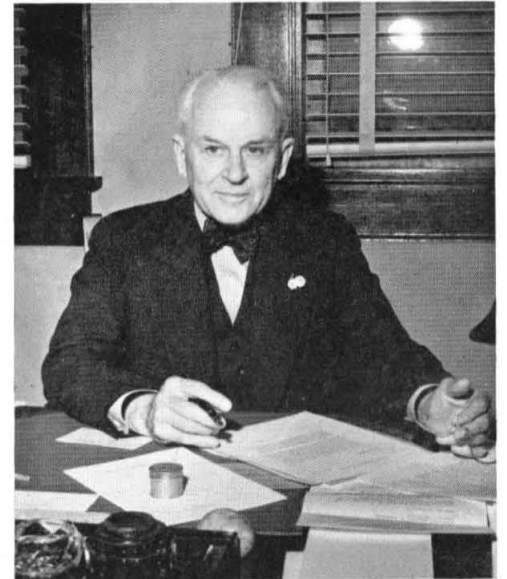
Robert A. Millikan
L. Winchester Jones

Robert A. Millikan, Chairman of the Board of Directors, completes another year of many and diversified activities. In addition to his duties as presiding officer of the Institute and his cosmic ray research trips—this year to Mexico and Idaho—Dr. Millikan has found time to contribute much toward the problem of defense.

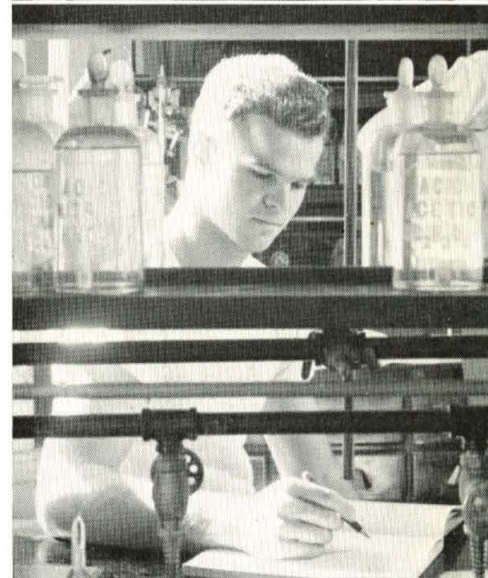
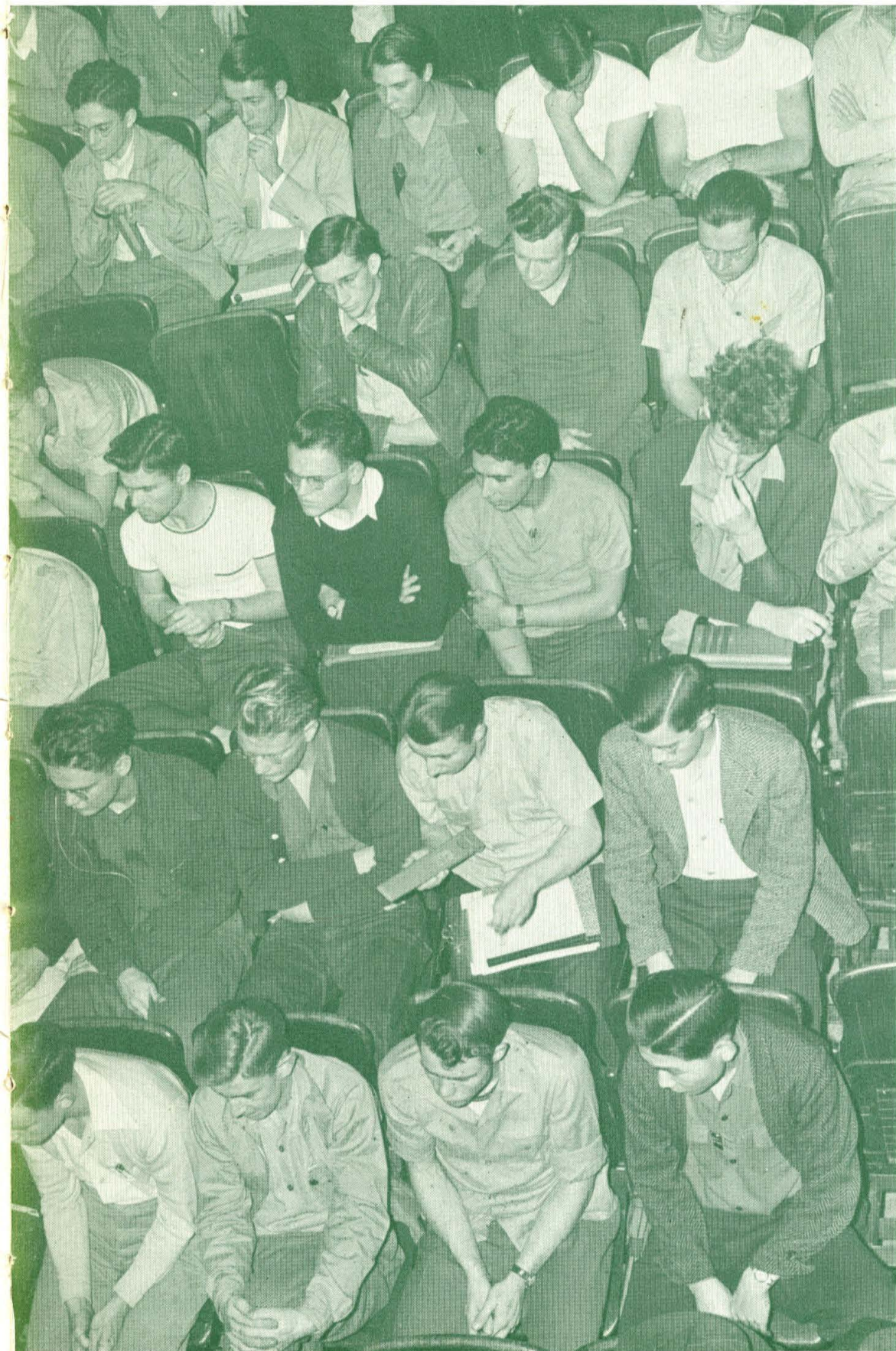
Dean L. W. Jones has been prominent in affairs pertaining to students. English professor, assistant dean, acting registrar, and Throop Club Associate, he also, at a minute's notice, organized the student guard.

William B. Hicks has been an outstanding student body president in his unselfish interest in extra curricular activities. More than merely presiding over the student board of directors, he initiated civilian defense committees and served the entire year as boxing instructor.

As a right hand man to Bill Hicks, Warren Gillette, vice president of the student body, supervised the functioning of the school's unique honor system. He was also an integral part of this year's championship track team.



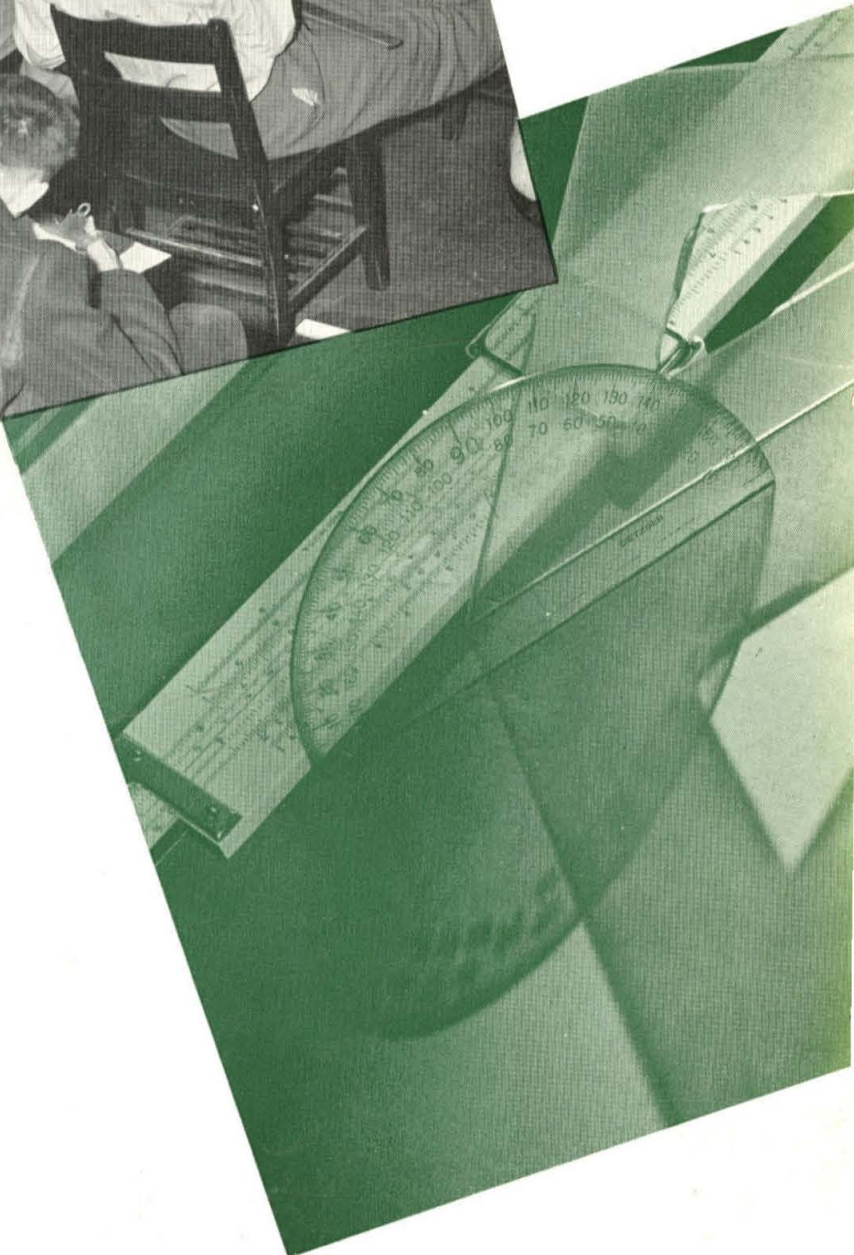
MEN OF OFFICE



William B. Hicks
Warren Gillette



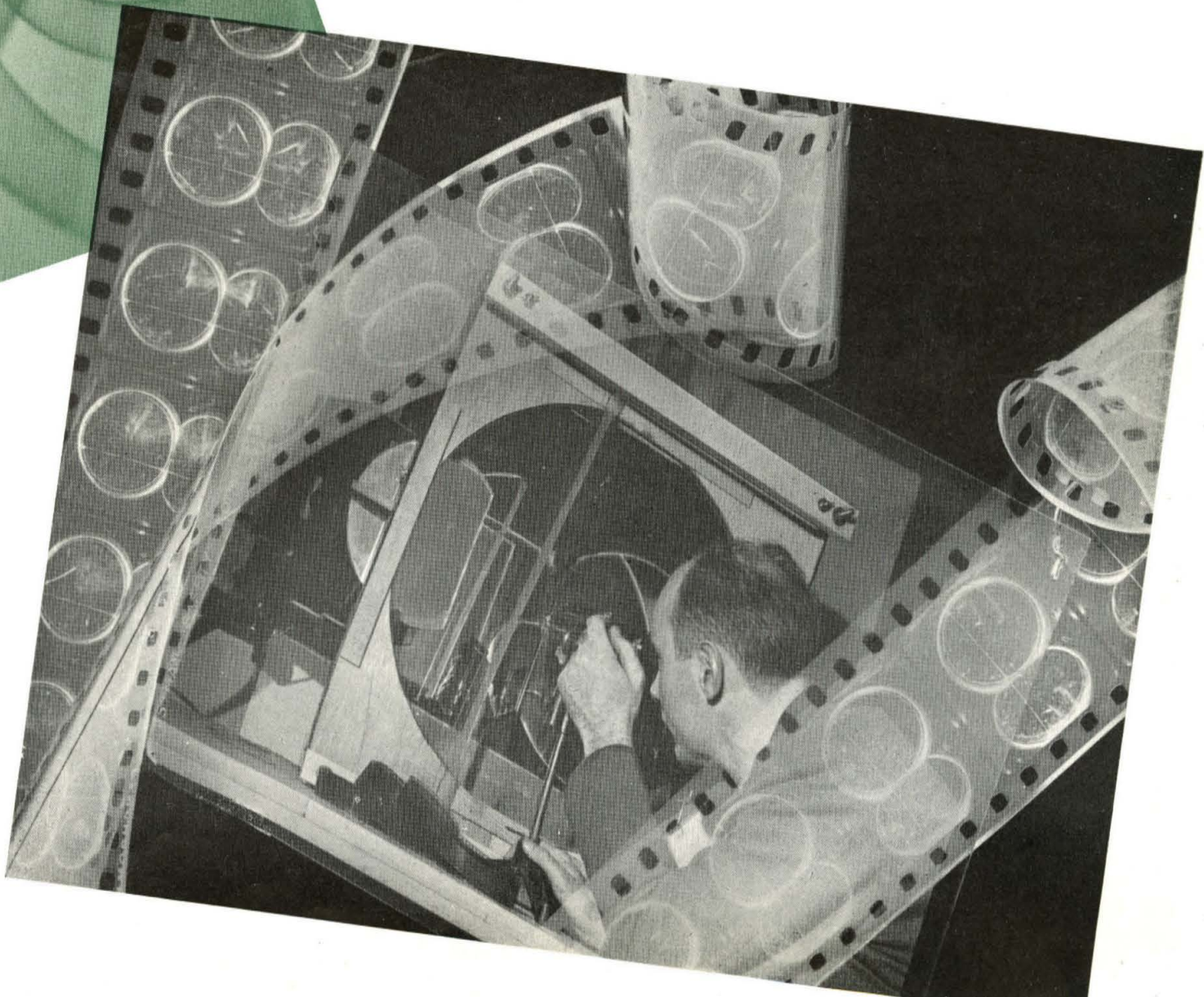
Instruction

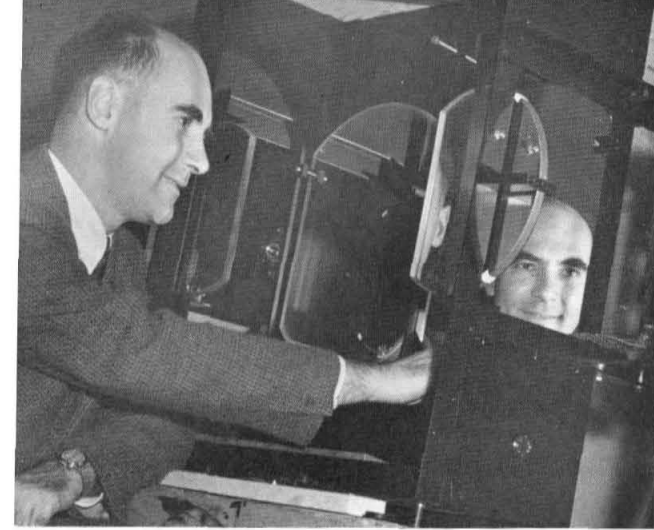


MEN OF

OUR FACULTY

Research





Carl D. Anderson, Professor of Physics,
Nobel Laureate

Led by men whose names are prominent throughout the scientific and technical world, Caltech's faculty this year added defense work to the usual long list of academic achievements.

Youngest of Tech's three Nobel Laureates is Dr. Carl Anderson, who has recently been engaged in building new and better equipment for his cosmic ray research in which results have been particularly promising. Many of the Physics department's past projects have this year been overshadowed by the pressing dictates of the country's present need.

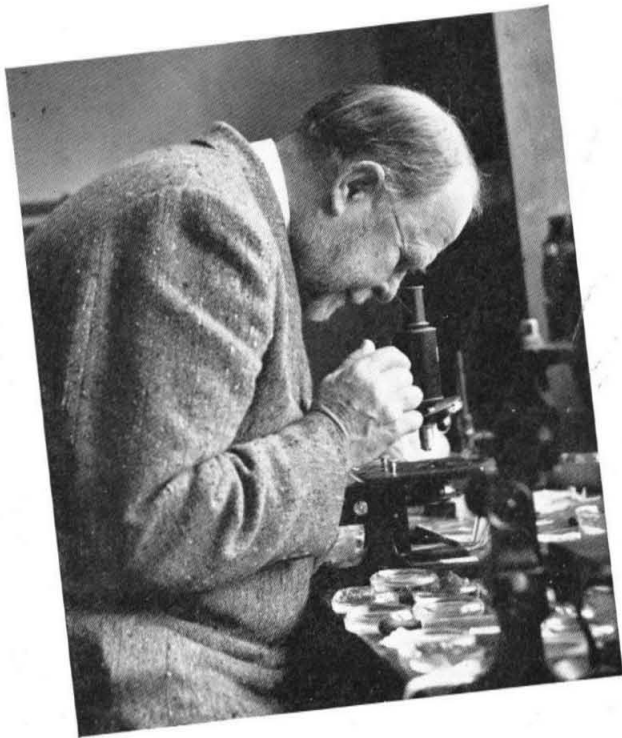
Right above: Royal W. Sorensen, Professor of Electrical Engineering, Chairman of the Division of Physical Education. Right below: Eric T. Bell, Professor of Mathematics.

The Electrical Engineering department, headed by Dr. Royal W. Sorensen, has been almost entirely devoted to the nation's all out program. Second term saw the introduction of new and comprehensive courses in all-important ultra-high frequency techniques, while Dr. Sorensen was recently named Southern California's coordinator in a training program for competent radio technicians.

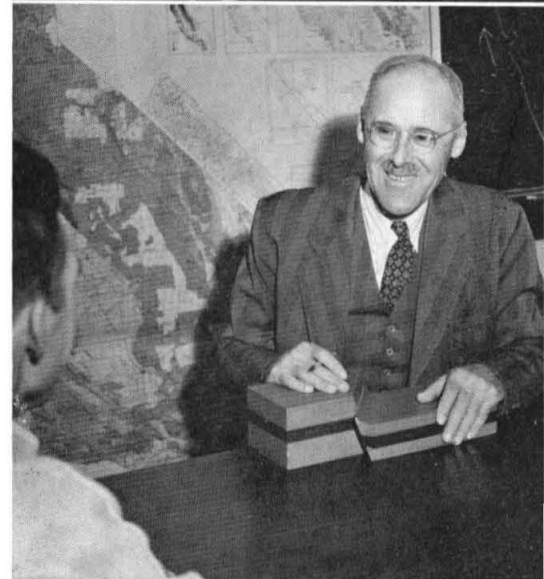
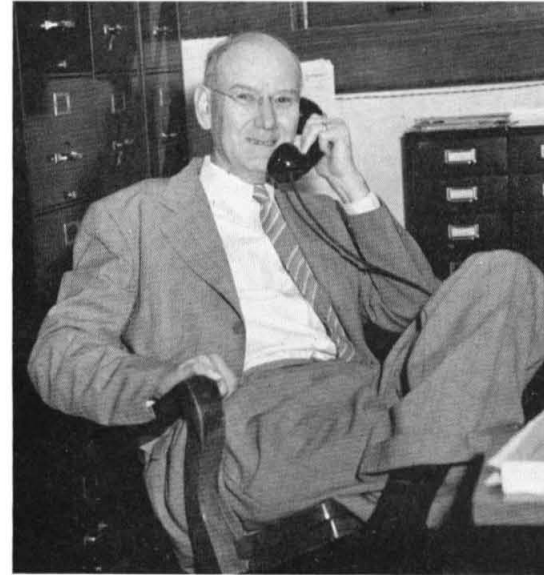
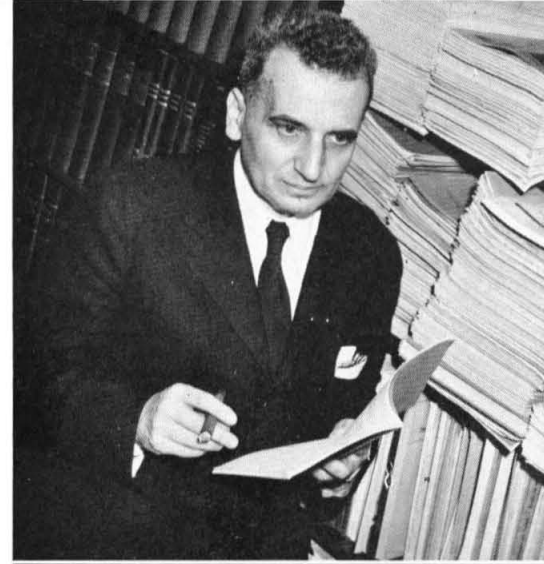
Less affected by the war, the Mathematics department under Dr. E. T. Bell has continued to progress in science's most basic field.



Scientists and



Left: Thomas H. Morgan, Professor of Biology, Nobel Laureate, Member of the Executive Council. Right, top to bottom: Theodore von Kármán, Professor of Aeronautics, Director of the Daniel Guggenheim Laboratory; Franklin Thomas, Professor of Civil Engineering; John P. Buwalda, Professor of Geology; Linus Pauling, Professor of Chemistry, Director of the Gates and Crellin Laboratories of Chemistry.



Dr. Thomas H. Morgan, Nobel Laureate and leader of the Biology department, is world famous for his work in genetics and continues to make advances in that field at Caltech.

In Aeronautics Dr. Theodore von Kármán this year added the Institute of Aeronautical Sciences award to the many tributes he has received, and justly so, as the world's foremost aerodynamicist. This year the Aeronautics department has been cloaked in necessary secrecy and placed under careful guard.

Directing the now heavily emphasized ESMDT courses in engineering, Professor Franklin Thomas has continued to guide the Civil Engineering department wisely and well. Professor Thomas has also continued his fine work as Chairman of the Student-Faculty Relations Committee.

Geology, under John P. Buwalda, has continued to play a major part in the government's strategic minerals program which has become ever more imperative to national defense.

Tech's Chemistry department is ably headed by Dr. Linus Pauling, noted the world over for his X-ray studies of crystalline structure. Of late he has been keeping many chemists occupied in governmental research.

Engineers



Right: Clinton K. Judy, Professor of English Language and Literature, Chairman of the Division of Humanities. Left, top to bottom: Edward C. Barrett, comptroller; William B. Munro, Professor of History and Government; John R. Macarthur, Professor of Languages; J. E. Wallace Sterling, Associate Professor of History.



Keeping Tech solvent in the face of ever rising prices and practically constant income is a job for which Comptroller Edward C. Barrett has proved himself more than capable.

Humanities courses at the Institute, headed by Professor Clinton K. Judy, cover many fields. Literature is extensively represented in all its phases from Biblical to contemporary times. Philosophy is capably handled by Professor Theodore Soares.

History is under the direction of Dr. William B. Munro. Starting from the most ancient times, under the direction of Dr. Hardin Craig and Dean Unter-einer, the Tech student is taught the history of mankind; finally, as a senior, he is given a comprehensive course in current history, showing him what lies behind the present world scene. Conducting this course are Dr. Craig and Dr. J. Wallace Sterling, a talented and fluent speaker, whose talks are always among the more popular Monday assemblies.

Dr. John R. Macarthur heads the Language department, which concentrates largely on technical German and French, although occasionally offering Greek and Italian, and this year Russian.

Faculty

Deans

Best known of Caltech's faculty are the Deans. Every freshman knows and admires Dean Ray E. Untereiner for his competent guidance and fluent oratory. From his first introduction at Frosh camp through his many greetings on the campus, every graduating senior can call Dean Untereiner his friend.

Under the somewhat gruff and military exterior of F. W. Hinrichs, Dean of Upperclassmen, lies a sympathy and willingness to help that no senior will soon forget. No matter how small, or seemingly unimportant the matter, Dean Hinrichs always does his utmost.

Serving as Acting Registrar in the absence of Philip S. Fogg, L. Winchester Jones also acts as Assistant Dean of Upperclassmen.

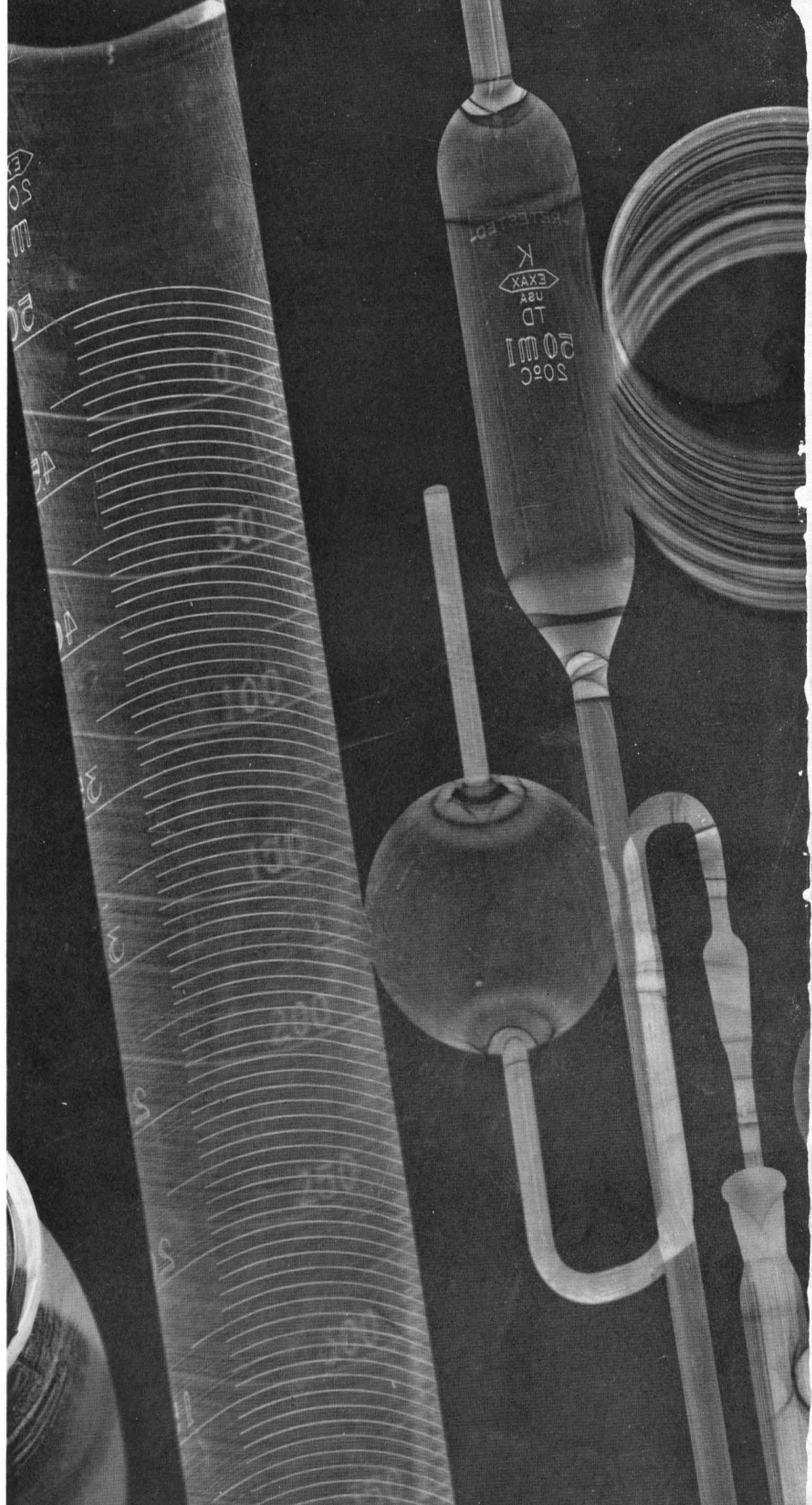


Fredrick W. Hinrichs, Jr., Dean
of Upper Classmen, Professor of
Mechanics



Ray E. Untereiner, Dean of
Freshmen, Associate Professor of
Economics and History

M E N O F



CLASSES



Men of '45



A willingness to work and a great desire to support school activities have been the outstanding distinctions of the class of '45. The new Techmen have indeed earned the respect of their upperclassmen through their "all out" participation in extra curricular activities.

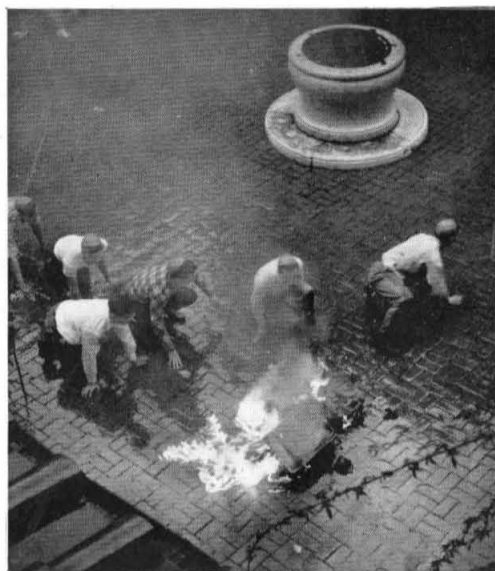
The traditional frosh camp gave the new class an opportunity to become acquainted and to learn of Caltech traditions and activities. A successful Tea Dance climaxed the first week of college life for the freshmen.

In the annual Rodeo Day the new class gave a good account of itself, although it lost to the sophomores. The Rodeo Day Dance and the Freshman Dance, both considered high successes, rounded out a successful first term.

The freshmen have proved their athletic ability by producing hard fighting squads in all sports, winning an outstanding victory by capturing the Conference cross-country championship.

Such qualities within a class can only point to bigger and better achievements in the three years of college life yet to come.

Class officers. Top: George Walker, treasurer; Tommy Carter, president; George Austin, secretary; Tom Norsworthy, vice president. Center: The push ball contest, culminating the soph-frosh Rodeo Day events. Left: There is shoe shining for those frosh who miss Friday assembly. Below: Ricketts initiates put out a fire the hard way.





Top: Preparations for the Oxy-game bonfire rally. Center: Skid Fleming, sophomore president, strokes the contours of a cat. Below: Wheeler North, vice president; Harry Moore, secretary; Willis Bussard, treasurer. Right: Tway Andrews, second representative and later studentbody secretary, confers with Blaine Parkin in a corner of the drafting room.

The sophomore class has made its place in school activities and scholastics; its many representatives in all phases of school life furnish significant proof of this.

To start the year off with a bang and show the freshmen their place, the class of '44 demonstrated to the lower classmen the proper way to win Rodeo Day.

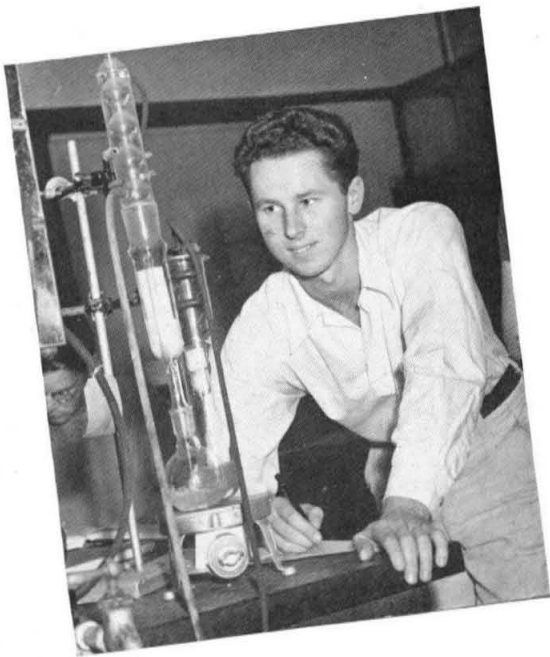
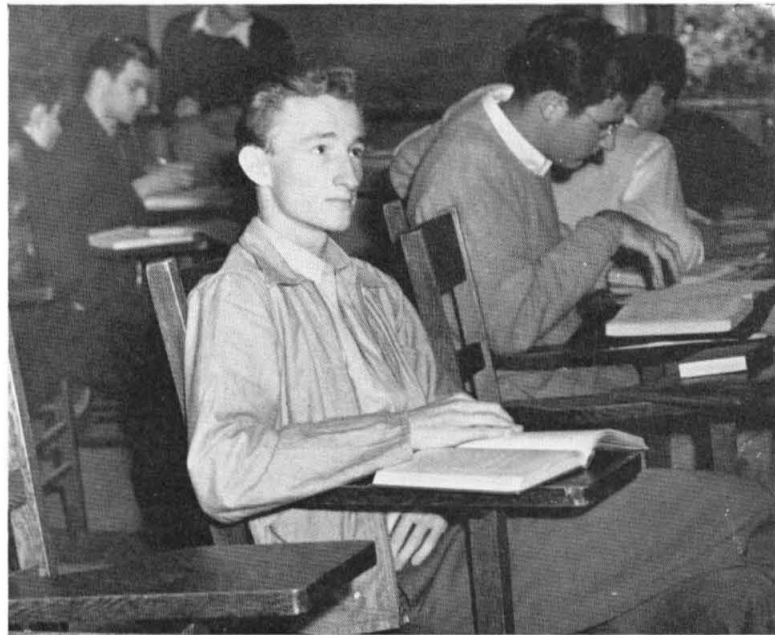
Next of the class activities was the dance presented for the studentbody at the Midwick Country Club, where a large crowd danced to the smooth music of the popular La Verne Boyer. The large attendance was proof of the enjoyment of the evening's affair.

Men of the class of '44 were prominent in athletics, the California Tech, the Big T, studentbody affairs, and all other activities demanding good men.



Men of '44

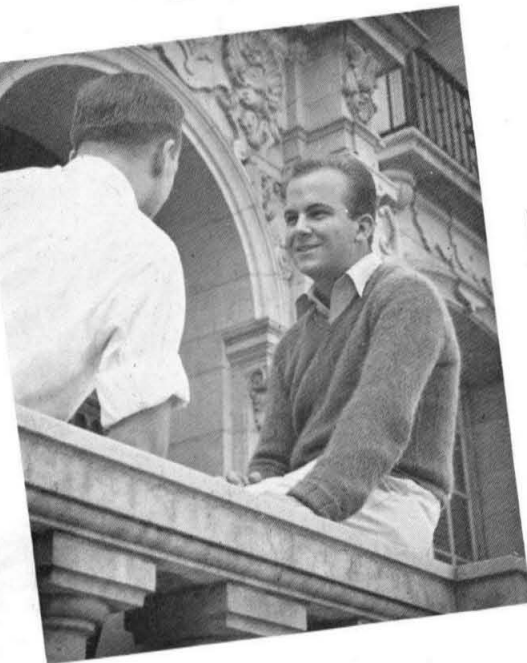
Men of '43



Reaching a new high in organizational efficiency, the junior class put on a completely successful Rodeo Day. Proving themselves the masters of the situation, more than half of the junior referees escaped from the customary mud dunking, outwitting a field full of sophomores and freshmen.

Prominence in extra-curricular activities was demonstrated by the large number of juniors working in studentbody offices, in varsity sports, on publications, and in other organizations.

The Junior-Senior Prom and the Junior-Senior Garden Party were well planned and very well attended.



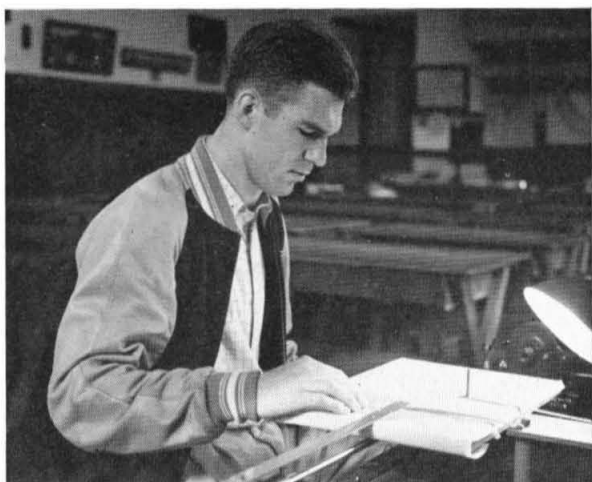
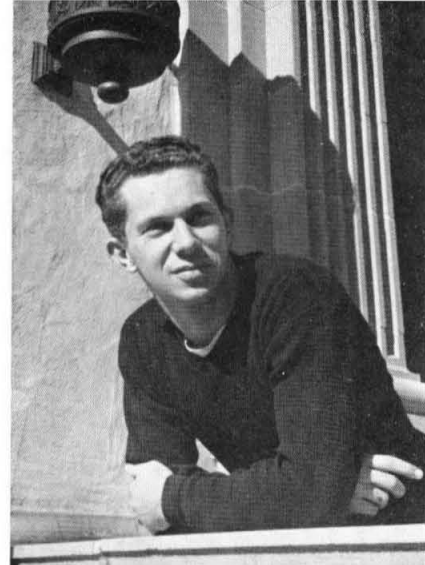
Top right: Paul Thiene, secretary; Left: Ed Fleischer, president; Lower left: Deane Morris, vice-president; Bottom: Douglas Reid, treasurer.

Senior Officers

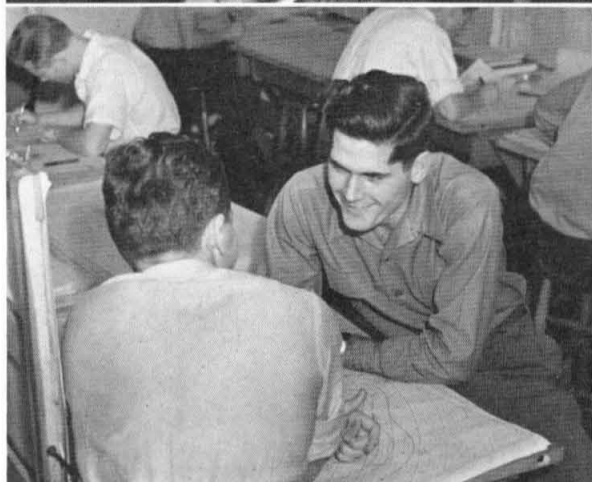
The past four years at Caltech have prepared a class of graduates which will no doubt produce outstanding men in many an important field. Glimpses of unusual ability have appeared in these seniors while participating in student body activity, sports, and social functions, not to mention the innumerable scholastic accomplishments. As an example, consider the class officers: George Lind, president; Dick Head, vice president; Harrison Price, secretary; Ralph Willits and Rolf Sabersky, treasurers.

After running away with the interclass track meet the third consecutive year, undergraduate days ended with the traditional social events of the garden party, junior-senior prom, and graduation ceremony.

Looking ahead, the senior's vocation problem was not *where* to find a job, but *which* job to take. In which field could he contribute most toward making this world of conflict peaceful once more—Army, Navy, Marines, graduate school, or defense industry?



Top right: Ralph Willits, co-treasurer; *Center right:* Harrison Price, secretary; *Left:* George Lind, president; *Bottom left:* Dick Head, vice-president; *Bottom center:* Rolf Sabersky, co-treasurer.



Applied Chemists

ALDEN WHITTEMORE AYERS, active participant in Blacker's social and athletic life, had a knack for practical suggestions; he could find room for improvement in any instructor's grading system. Supported the orchestra's string section. Collected Chem Club dues. Presided over upperclass YMCA. Tinkered in photography. Was seen often with a certain hometown Alhambra girl. . . . Socially smooth and scholastically strong. HUGH ADAMSON BAIRD tore into Tech as a junior transfer from P.J.C. Congenial, hard working, and consistent, he shined particularly in organic—once ran an ether extraction continuously for 48 hours. Made himself right at home in Throop Club's program. . . . One of those boys graduating in two majors, biologist-applied-chemist ALAN E. BELL, employed Tech as a foundation for a medical career. Widened his interests by including radio, Fleming athletics, photography, and Scripps College. Drifted into Tech from way up in Shawnigan, B. C. Spending more time working in the wind tunnel than going to school, DAVE BERMAN graduates on the five-year plan. But his job in Guggenheim did not prevent him from getting married, playing house baseball for Fleming, and managing frosh and junior baseball. . . . For all around activities, ROBERT EARL DENSMORE JR. is one of the top men of his class. Three honor keys, Frosh and varsity letters in track and cross-country, Tau Beta Pi vice president, sports editor, Beaver, member of Ricketts House, Varsity Club, and Press Club. "Demon" has also been Big T editor for two years and captained this year's championship cross-country team. . . . FRANK A. FLECK, devoted to giving section F better brawls, will always be revered as "tossler of the ox." "Good Kid," a Mississippi backwoodsman, dissipated part of his energy on Blacker contests and dances, the Chem Club as vice president, and Drama Club, but reserved a goodly portion for the end of each finals week.



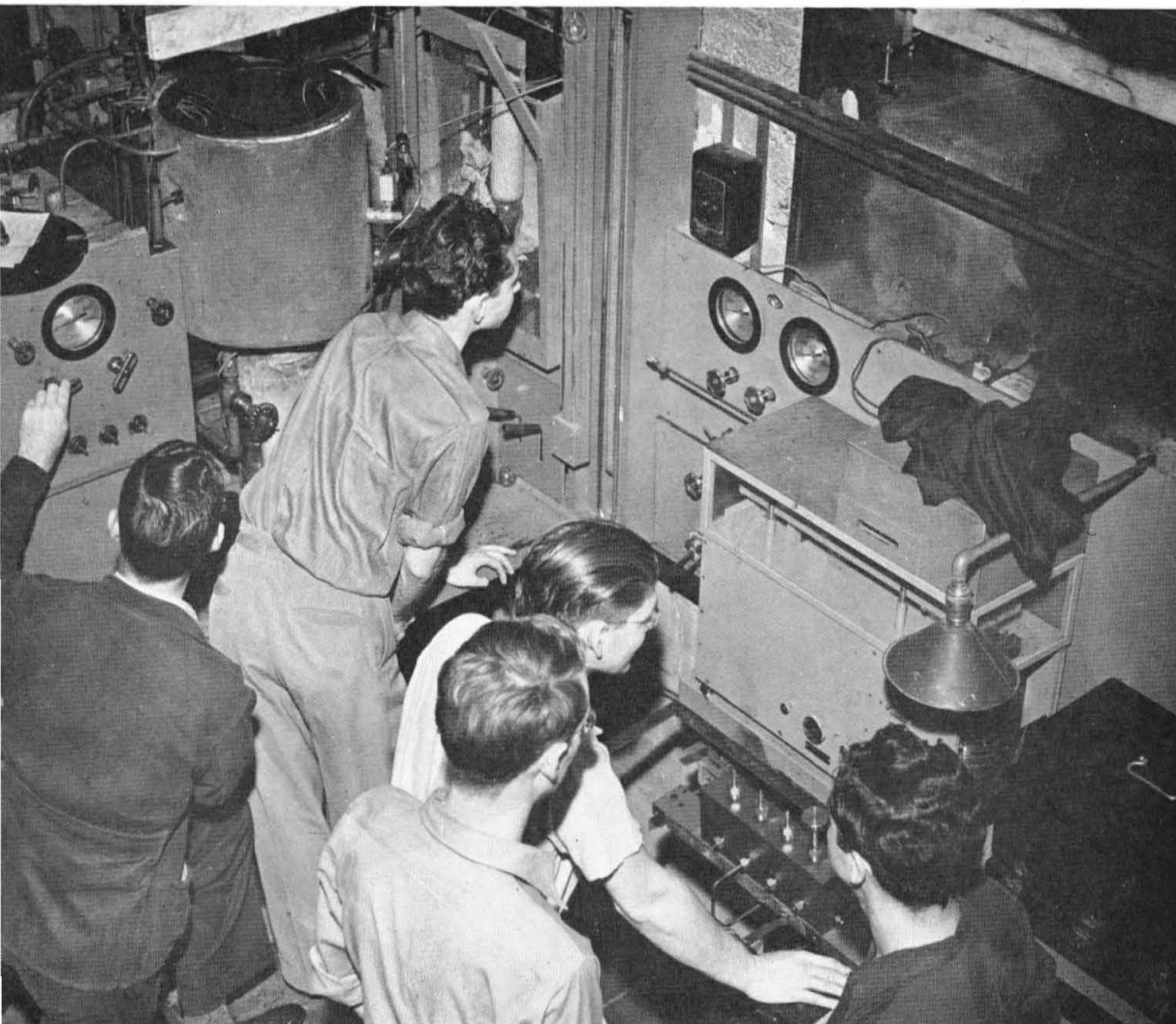
Top row: Ayers, Baird, Bell.
Bottom row: Berman, Densmore,
Fleck.

ELDEN RAY GEIB, a Scripps steady, squeezed his studies into an extremely active social life. Observed moderation in sports with Blacker softball, noon-time badminton, and skiing. "Slats" was never at a loss for a wise crack. Promoted Chem Club interests as vice president. . . . WARREN GILLETTE was the applied chemists' prize gift to campus athletics and politics. Studentbody vice president. First Rep. Football and track star. Three honor keys. Varsity Club. Beavers. Handsome, prank-loving "Squeak" or "Little Face" also contributed to Fleming's swimming and baseball teams. . . . ARNOLD LEWIS GROSSBERG was the section's thorough scholar, never being at a loss for the correct solution of a chemistry problem. For recreation, Arnold grabbed his golf clubs and earned two varsity letters. Engaged in Dabney's intramural baseball, basketball and tennis. Attended Musicales meetings and reported for the California Tech.

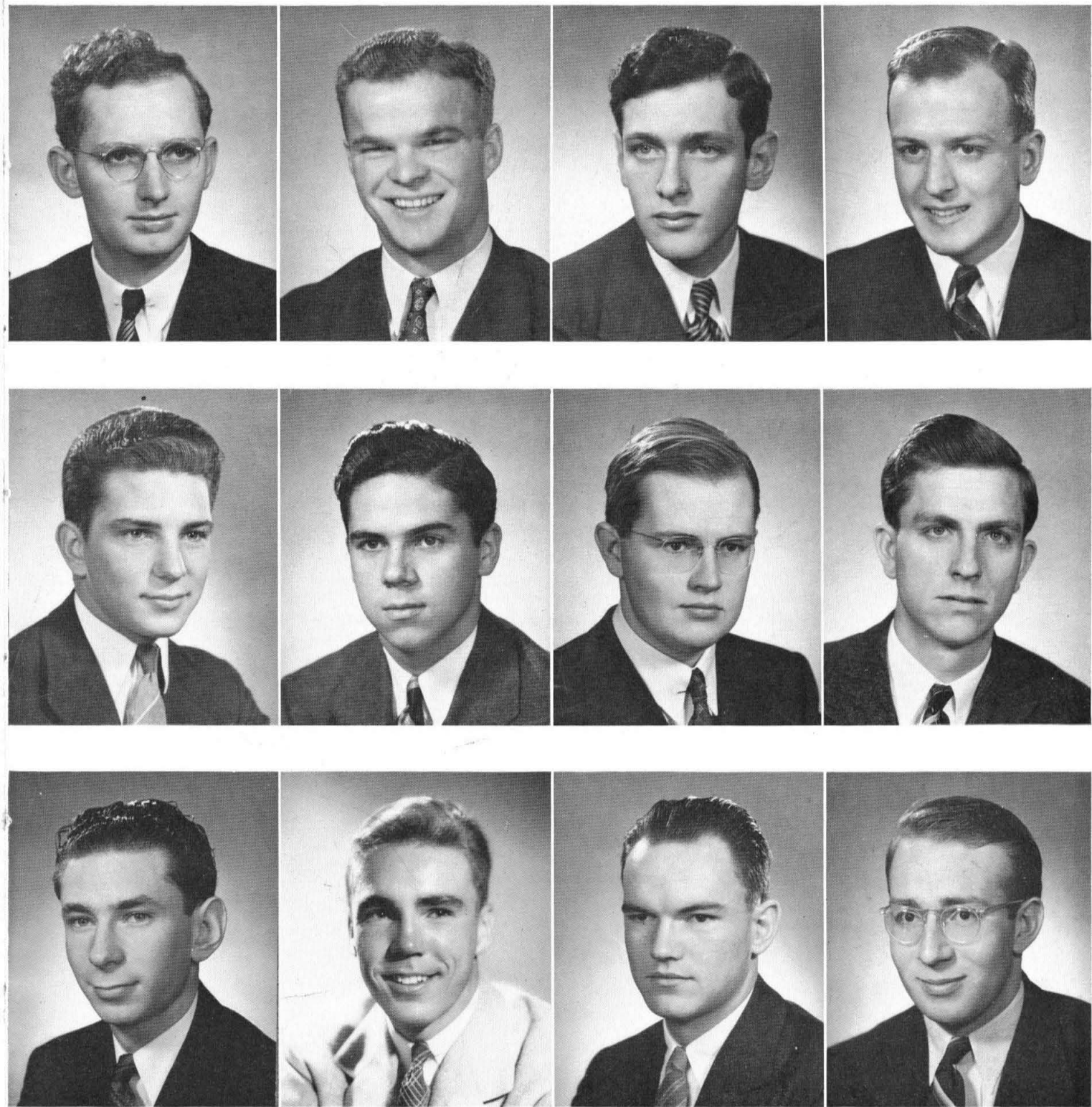
HOWARD C. HALL transferred from the University of Oregon last year. Popular in Fleming House and his section for his hearty appreciation of a practical joke. The rugged type, he enjoyed skiing, flying, mountaineering, and week end excursions all the way to Washington to see his girl. Active in track and Chem club. . . . LAWRENCE A. HANSON JR., the Casanova of the chemists and the Rodriguez of Ricketts, loved music and philosophy. Was indeed a constant source of interesting culture. Boosted house affairs. Translated the section's German. Founded the "Van Ness-Hanson" rating system. Passed cigars second term this year. . . . Activity man and Dabney socialite, CARTER HUNT amused the section with many a biting crack. Invaluable to the Big T as photographic editor. Also managing editor of the California Tech. Member of Beavers, Ski Club, and Chem Club. Earned an honor key and appeared in an Eagleson-Stanton drama production.

EARL A. McLAIN was the strong-silent type. Steady and consistent, his presence was always felt. L. J. was respected for his good nature, both in the section and in Dabney house. Sacramento is his home town. . . . ORVILLE E. SCRIBNER entered Tech in 1940 from P.J.C. and quickly found his place in campus activities. One of Throop Club's outstanding athletes in six-man-house football and basketball. Starred in German. . . . IRVIN PHILLIP SEEGMAN, devoted to social affairs, De Molay work, music, art, Chem Club, California Tech, and Throop Club. Was popular in the section for his unflinching good nature and cryptic comments. A scholarship student, he pulled down high grades to the very end.

Tall, with a younger brother in school even taller, JACK D. STONE furnished the sleeping-in element of the section. No class was too late to miss. Phenomenal when he wanted to be, he memorized the first industrial chem assignment word for word—all fifteen pages. Added defense work to his curriculum and so is extending his senior year into 1945. . . . Respected by everyone, LEIGHTON J. TRUE JR. provided the steadying influence on the vigorous activities of both his rowdy house and section. Ricketts U. C. C., L. J. also served his house in softball, baseball, and basketball. Two years in varsity basketball. Liked inorganic research and perfected procedures for Dr. Swift. . . . Rowdy and popular, EVERETT WILLARD VAN NESS instigated water fights and showed the section to a good time. Ricketts strong man, he was chairman of the U. C. C.; played softball, handball, and basketball; and served on the social committee. Dabbled in varsity basketball, classical and popular music, and photography.



Observing the relations of pressure, temperature, and volume in the chemical engineering lab.



Top row: Geib, Gillette, Grossberg, Hall. Second row: Hanson, Hunt, McLain, Scribner. Bottom row: Seegman, Stone, True, Van Ness.

Applied Chemists

Aeronauticals

WILLIAM DIONECIUS BEZDECHECK JR., is an aeronaut who has his C. A. A. license and likes to fly. One of Doc Hanes' leather-lungers. Captained the cross-country team in '40—two year letterman. Earned numerals in track. Bill includes a certain beautiful girl among his major interests and anxieties. . . . Dry humor and a highly discriminating palate are JOHN T. BOWEN's long suits. J. T. is a member of Tau Beta Pi and of the Musicae staff. Supplements his study of aeronautical engineering with part time work in the GALCIT wind tunnel. ROBERT JOHN CLARK came to Tech from L. A. City College. Bob belongs to Throop Club and worked as exhibit day sub-chairman in 1940. He's particularly interested in airplane design, and may be found almost any time in the Guggenheim aircraft structures lab. . . . A local boy from South Pasadena, ROBERT DEVAULT lived off campus and was a member of Throop Club. Bob played house football for Throop. Is interested in industrial design and aeronautics as a vocation. Spare time interests include art, literature, and music. . . . Known intimately to his classmates as Archibald, JOHN A. DRAKE is one of the school's better swimmers. Three letters in water polo and two in swimming. Frosh numerals in the same aquatic sports. Also swam for Throop Club. Member of the Newman Club and the A.S.M.E. Varsity Club.

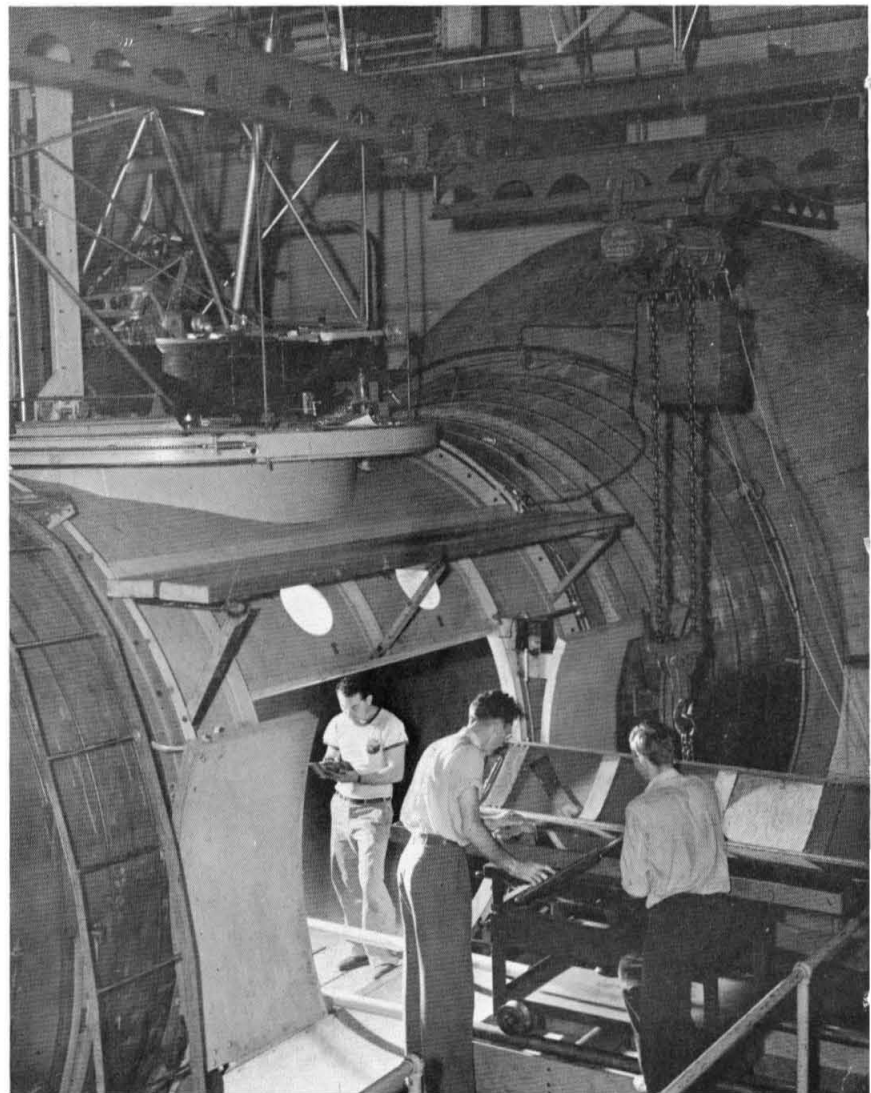
JOSEPH ELLIS showed a diversity of interests. Member of the cross country team for four years. Two years of track. Very active in Throop Club, Joe can always be found at their social functions. Member of the Radio Club and A.S.M.E. Extracurricular interests include amateur radio, photography, and shop work. . . . FREDERICK HARTMAN FELBERG enjoys everything he does, and he's done plenty. Tau Beta Pi member. Treasurer of Ricketts. Played house baseball, football, and basketball. Sonny supplemented his A.E. study by winning his C.A.A. wings. When not working in the wind tunnel or collecting dirty shirts for the Royal laundry, he can be found somewhere with his fiancee.

WENDELL W. HARTER, transferred from L. A. City College his junior year. Joined Throop Club. Spent a year under the work training program at Lockheed. Off campus he has been very active in church work: Epworth League, choir, and officer in Pasadena sub-district of Methodist Youth Fellowship. . . . RICHARD M. HEAD has been instrumental in forming the renowned Ski Club. Three letters and a numeral in skiing. Beaver. Varsity Club. Vice president of senior class and Dabney house. President of Ski Club. Member of Sierra Club Ski Mountaineers. Tall, dark, and having that way with women, Dick has earned his spurs on all counts.



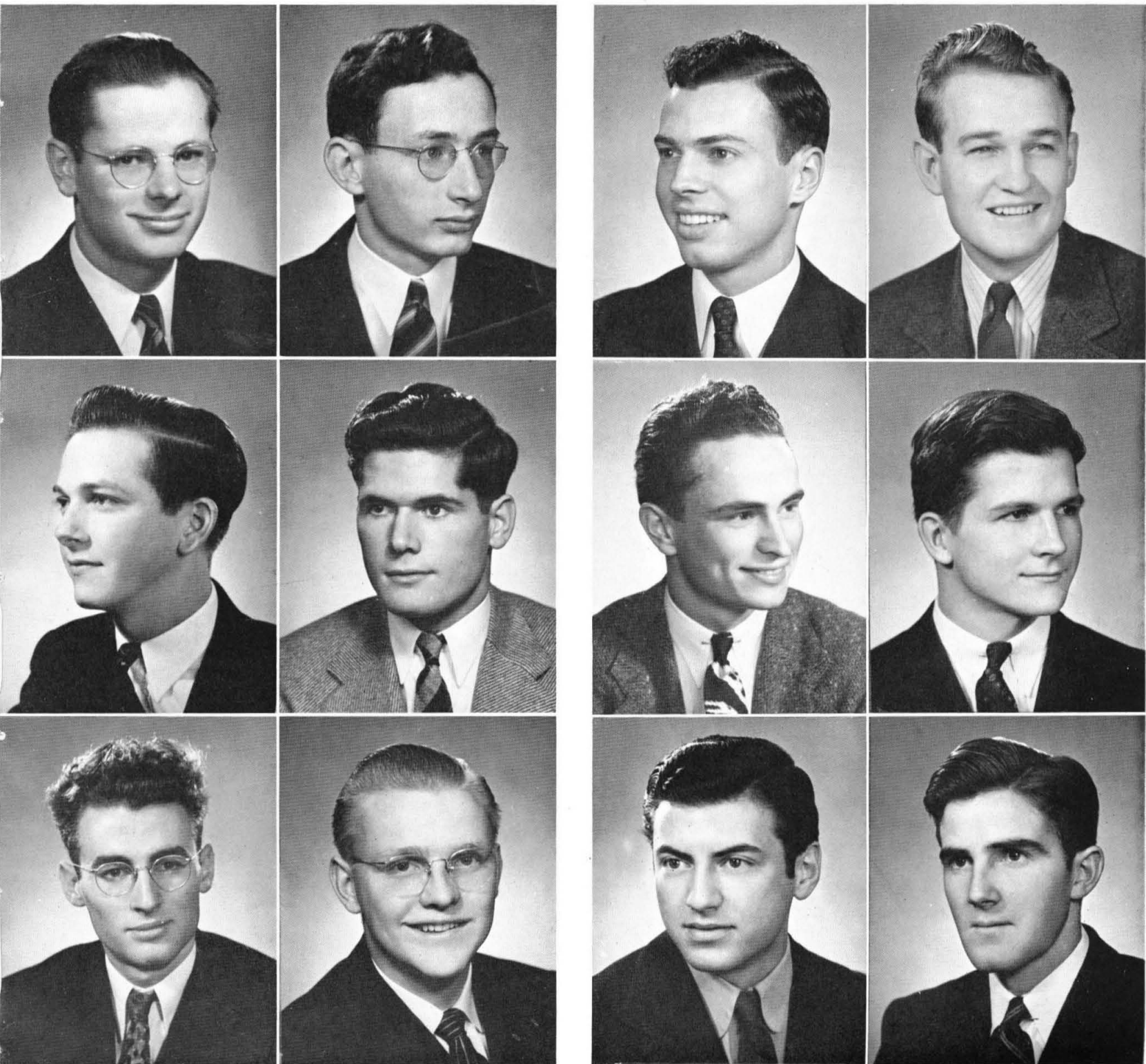
Left: Bezdeccheck, Bowen, Clark.

Installing a new suspension mechanism in the wind tunnel.



WALLACE E. HICKS has been active in Throop Club social affairs and in house football and tennis. Spends time snaking in Dabney Library or playing bridge in Throop Club. Interested in flying. A junior transfer from P.J.C. . . . PHILIP JOHNSON has been one of Tech's best distance winners. Won three varsity letters in cross country and also competed for Blacker house. "Sunshine" is noted as a quiet, good-natured fellow among the boys, and a heart-breaker with the women. Spends a lot of time working in the wind tunnel. . . . MURRAY LEON LESSER became a member of the class of '42 as a sophomore. Always wins arguments. Particularly active in Throop Club as a bridge player. Interested in the Musicale, California Tech staff, A.S.M.E., and especially in a certain Humanities librarian. BOYD T. MARSHALL, debater of the class of 1942, has shown an eagerness to engage in activities. Good student, member of Tau Beta Pi, Beavers, president of Pi Kappa Delta, three honor keys, rally committee chairman, California Tech staff, glee club, orchestra, and president of the rifle club. Worked hard on Blacker's social committee. . . . HERMAN MILLER, friendly and good-natured, combined interests in Ricketts House, student body affairs, and sports. Earned frosh and varsity basketball awards. Varsity football one year. Two Honor keys. California Tech staff. Sports editor for Big T. Debating. Publicity committee. Artist deluxe when it came to decorating dances. . . . RUSSELL RHYNE was a distinguished scholar and an all around good man. Frosh and varsity awards in baseball. Played Throop Club baseball, basketball, and softball. Member of Varsity Club and Tau Beta Pi. Rusty's musical talents appeared in the orchestra and glee club. Has been employed in the GALCIT wind tunnel the last two years.

Top row: DeVault, Drake, Ellis, Felberg. Second row: Harter, Head, Hicks, Johnson. Bottom row: Lesser, Marshall, Miller, Rhyne.





Geologists

Upper left, top to bottom: Rogers, Seibel, Sternberg, Webster.

WILLIAM L. ROGERS came here as a junior from Boise, Idaho. Quiet, friendly, and a good student, Bill has been interested in Throop Club, Tau Beta Pi, A.S.M.E., and the Musicale. Like many an aeronaut, he works in the GALCIT wind tunnel. . . . Big, solidly built CHARLES M. SEIBEL has spent his prowess in athletics, working, and earning good grades. Frosh track numerals and a varsity football letter. Member of Throop Club. A TBP. Devoted last two years to supporting himself in the GALCIT wind tunnel. Announced his engagement last winter to a fortunate girl in Wichita, Kansas. Varsity Club. JOSEPH STERNBERG, a junior transfer, has been very interested in professional work. Quiet and unassuming, he has been active in Throop Club, in flying, and has taken C.P.T. Photography has been his main hobby. . . . PAUL WEBSTER, a concentration of muscle and energy, has been extremely active in Blacker house affairs, where he has been treasurer and the star of track, handball, football, and baseball teams. Tau Beta Pi and A.S.M.E. member. Amazingly skillful in machine work—once cast main bearings for his V-8.

ABRAHAM FIUL, near right above, began Tech life with activities in the frosh YMCA and on the cross country team. Developed a hobby in photography. Likes hiking. Whiled away spare time fixing the Fiulmobile. Then in third term this year, the Rickettsman from Hoboken entered matrimony. He and Savit are the only math majors.

CARL HERTZ SAVIT, far right above, majored in both math and physics. Earned awards as frosh and varsity manager in basketball and football. Active in Musicale, debating, and Throop Club. Lettered the Discobolus book like a medieval manuscript. His skepticism in philosophy led to such profound statements as, "What do you mean by meaning?"

WILLARD J. HENDRICKSON, near right below, is one of those rare die-hards who come to Tech for pre-med. Held offices as frosh treasurer, sophomore president, and Ricketts house secretary. "Doc" is also a social smoothy—often combining in such affairs with "biggy" Bill Hicks. Often heard muttering "Martha" under his breath this past year. (There never before was such a biological cat when he finished with her.)

GERSHOM REYNOLDS MAKEPEACE far right below, married in December, 1940, and worked part time at Vega while finishing school. Jerry has been active in Blacker social and sport events, including football, wrestling, swimming, fencing, and social committee. Also in the Glee Club.

Aeros

A diligent scholar, ROBERT EDWIN ANDERSON, crammed four years' work into five. Andy played house football. Served as secretary and vice-president of Throop Club. Exhibit Day guide service chairman. Headed 1941 Jr.-Sr. prom committee. Finds geology trips a good place to catch up on sleep. Returned from summer camp a sadder budweiser man. . . . Youngest in his class, ROBERT GREENWOOD, alias Bathless, became celibate Pope Umbo I of Fleming, beloved for his purity and innocence. Fresh from London, he won numerals in cross country and swimming. Played varsity soccer. His keen brain, fount of humor, and immunity to poison oak makes him the *idle* of his classmates. Field man par excellence, HENRY WILLIAM MENARD, was a mainstay on Dabney's football, baseball, track, and wrestling teams, and secretary of the house. Numerals in track. An inveterate poker player. Prominent member of the Dabney Hunt Club. His fellow geologists count on Bill to liven up lab hours with his pungent wit. . . . "Gorgeous Georgus" GEORGE FREDERICK MEYER, president of his frosh class many years ago, interspersed nautical life with his geology. Three year letterman in baseball, and one in basketball. Three "41" numerals. Member of Beavers and Varsity Club. Played football and baseball for Ricketts rowdies. Punctual, painstaking, and persevering, George is a paragon among geologists.

Math



Top: Anderson, Greenwood.
Bottom: Menard, Meyer.



Biologists



Top row: Allen, Andrews, Atkinson, Cox. Second row: Curtis, Elliott, Franzini, Gayer. Third row: Jephcott, Larson, Lind, Lutz. Bottom row: MacRostie, McClain, Roese, Schureman.

Civil Engineers

JOHN ALLAN, treasurer of the A.S.C.E., entered from P.J.C. Spends most of his time working in the chemistry stock room. Plays nursemaid to the rats in biology. His excellent Exhibit Day lectures were enjoyed by everyone. Badminton courts furnish John's recreation in his few spare moments. . . . Working at Santa Anita gave RICHARD ALLWORTH ANDREWS little time in which to pursue extra-curricular activities on the campus. When the bangtails weren't cavorting, however, Dick managed to find time to join the Ski Club during his soph and junior years. . . . THOMAS G. ATKINSON, soft-spoken, unassuming, was well liked by all. Played three years of varsity baseball and a year on the basketball squad. Also a mainstay of Throop Club baseball and basketball teams. A.S.C.E. member. Finds time to relax at the Musicale.

RICHARD HORTON COX, the pride of Honolulu, has been principle figure in putting swimming and water polo teams at their present high position in Southern California. Varsity Club member. Athenacum waiter. Always present at Ricketts social functions. Strictly a one woman man. . . . THOMAS GREY CURTIS, now called 606 Curtis, has a ready wit which lightened many an afternoon for his section. Played football for Fleming. Glee Club member. During this past year, Tom has worked a full shift at Lockheed in addition to his 50 units. Still finds time to relax on Saturday nights. . . . THOMAS D. ELLIOTT has been one of the finest athletes to enter Tech. Top ranking performer for four years on freshmen and varsity football and track squads. Co-captain in football. Vice president of the Varsity Club. Beaver member. Treasurer of his sophomore class. An active member of Ricketts. Pot is outstanding in everything he does.

JOSEPH B. FRANZINI, JR., entered from P.J.C. Joe was a prominent member of Throop Club. Known by his tanned complexion and his leisurely speech. Vice President of the A.S.C.E. An active member of the YMCA. Helped organize frosh camp during his sophomore year. . . . MARTIN R. GAYER, the married man of his section, was quite an athlete. Two year letterman in Varsity tennis. Numerals in basketball and tennis. Roger also played basketball for the Fleming reds. Member of the A.S.C.E. . . . DONALD KENNETH JEPHCOTT, admired by his classmates for his scholastic ability, was active in the A.S.C.E. as secretary. Although he attended Tech only for his junior and senior years, Don was honored by election into Tau Beta Pi.

ERWIN R. LARSON, a mainstay of the Throop Club athletic teams, has helped bring Throop to the top in basketball, baseball, and tennis. Entering Tech as a frosh from South Pasadena, Erwin has been active in the A.S.C.E. as well as Throop Club social events. . . . GEORGE W. LIND JR. has led Tech athletic teams since he entered as a frosh from Portland, Oregon. Ending four years of competition, Junior leaves with three letters in both football and track. For his competitive interest Junior was chosen Varsity Club president; for class spirit he was elected senior class president. A member of Fleming. Honor Key and Beaver. . . . PHILIP LUTZ entered the Institute as a freshman from Spokane, Washington. Phil has since directed the largest A.S.C.E. meetings Tech has ever boasted—as secretary in his junior year, and president this last year. A member of Dabney House, Phil has participated in house softball and baseball.

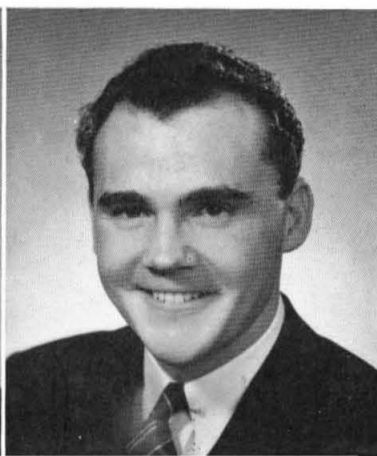
WAYNE MACROSTIE, the practical Scotchman, has been A.S.B. treasurer, member of the Board of Control, Blacker House secretary and vice president, news editor of the California Tech, member of the Beavers. No wonder he holds two honor keys. Mac consistently pulls down B's in courses he knows nothing about and made Tau Beta Pi.

JOHN FRANKLIN McCLAIN JR., co-captain of the football team, came to Tech from Coronado. "Red-cap," the loudest man on the campus, was business manager of the Big T., Fleming House treasurer; played house football, track, and softball. Black-Mac holds two honor keys and is a member of the Varsity Club and the Beavers. . . . HENRY V. ROESE has three letters and numerals in both football and baseball, which he captained as a frosh and again as a senior. Hank is a member of the Beavers and the Board of Control. He exercised the paddle as pledge master of the Varsity Club. In Fleming, Henry is known for not studying. . . . KENNETH SCHUREMAN presided over Blacker in a hectic year. Ken drags himself away each Monday morning from Santa Monica Beach. Donald Duck is a member of the Varsity Club, Drama Club, and the Beavers. He has three letters and numerals for hurdling. As Soph Y president, he developed his sense of moral responsibility. Honor Key.

MELVIN JAMES SKINNER entered Tech as a junior from P.J.C. He has been self-supporting by working at Lockheed as an inspector for a year. His snaking enabled him to make Tau Beta Pi. After graduation Jim is going to be married if he can get away from the Throop Club bridge table. . . . ROY C. VAN ORDEN has been at Tech for two years after graduating from P.J.C. A member of Throop Club, Roy spends his hours off campus swimming, cycling, hunting, and attending school dances. Van is a member of the A.S.C.E.

Skinner

Van Orden





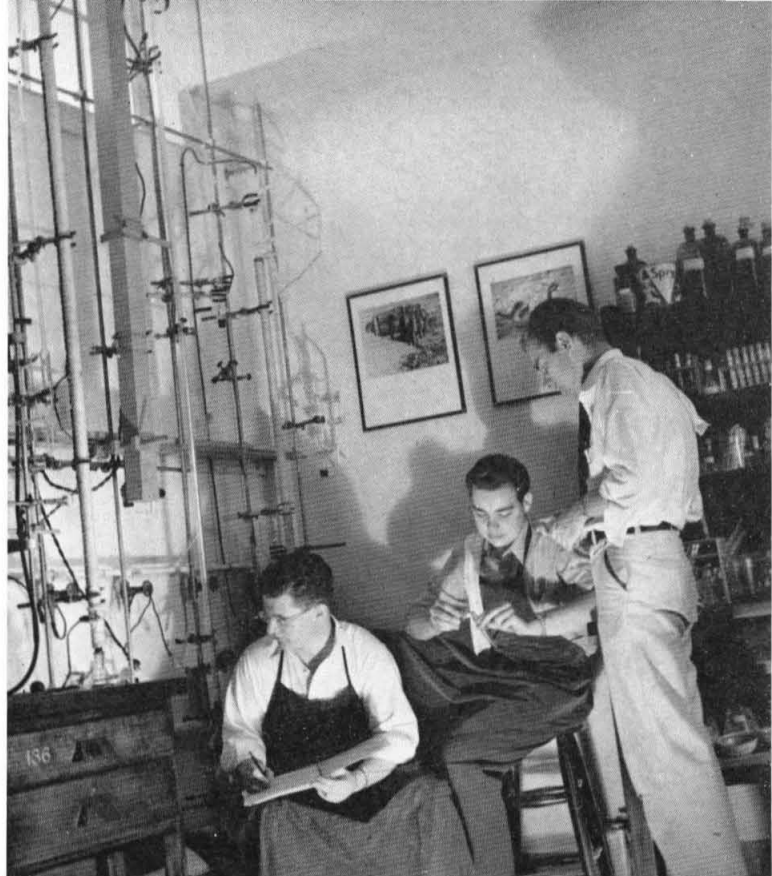
A musician of renown, JOHN A. BROCKMAN JR. managed the band two years and directed the orchestra his senior year. Blows a trumpet in the band and glass in the organic laboratory. Track manager for four years, Fleming House social chairman, member of Beavers. Well known for his chemical intuition. Honor Key. . . .

A native son of Nevada, DAVID H. BROWN entered Tech in 1940 from P.J.C. Since then Dave has distinguished himself by outstanding work in his chosen field. His hearty, booming laugh is well known to regular Gates-and-Crellinites. Member of Tau Beta Pi. Member of Throop Club and of the Chemistry Club. Enjoys hiking and photography as hobbies, as well as reading good books. . . .

A member of Dabney house, ROBERT E. CUNNINGHAM has always enjoyed hiking and shooting. Possibly because of this latter hobby, the chemistry department felt secure after Bob took the responsibility of living there and guarding the laboratories. From Helena, Montana, ALLAN L. GROSSBERG came to Tech to show the Californians how to be tops in activities and scholastic rank. Treasurer of Tau Beta Pi, of Pi Kappa Delta, president of Chem Club, debate manager, "Chief" is also an authority on many organic preparations. . . .

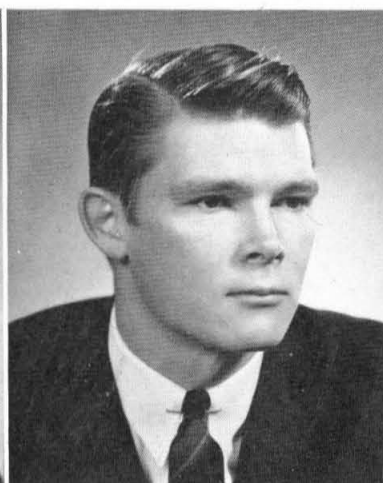
GEORGE HOLZMAN entered Tech in 1959 from U.C.L.A., and has been on the track and football teams of Blacker House. He wears the bent of Tau Beta Pi and has been active in the Chem Club and the upper class YMCA. Photography is his hobby—organic chemistry will be his profession. . . . Four years a football star, two years on the Varsity eleven, DAVID R. HOWTON has been a mainstay of Throop Club. Member of Board of Control, Varsity Club, Beavers, Chem Club. Like so many chemists, Dave is a member of Tau Beta Pi, spends long hours doing organic research. . . . Coming from Los Angeles, PAUL M. MADER became a member of Ricketts House. Plays tennis, sings in the Glee Club, active in Chem Club affairs. Likes expertly to take color photographs when on long hikes.

ROBERT T. MERRICK came from Compton and took to Tech and to water like the proverbial duck. Bob was captain of the water polo team for one year, of the swimming team for two. Holder of conference record for two years. Member of Chem Club, Beavers, secretary-treasurer of Varsity Club. . . . LLOYD WILLIAM MERRYFIELD is a member of Tau Beta Pi, of Throop Club and of the Chem Club, and has been junior and senior track manager. Comes from Los Angeles High. Enjoys good music and long hikes, and has been especially interested in the application of organic chemistry to biological problems.



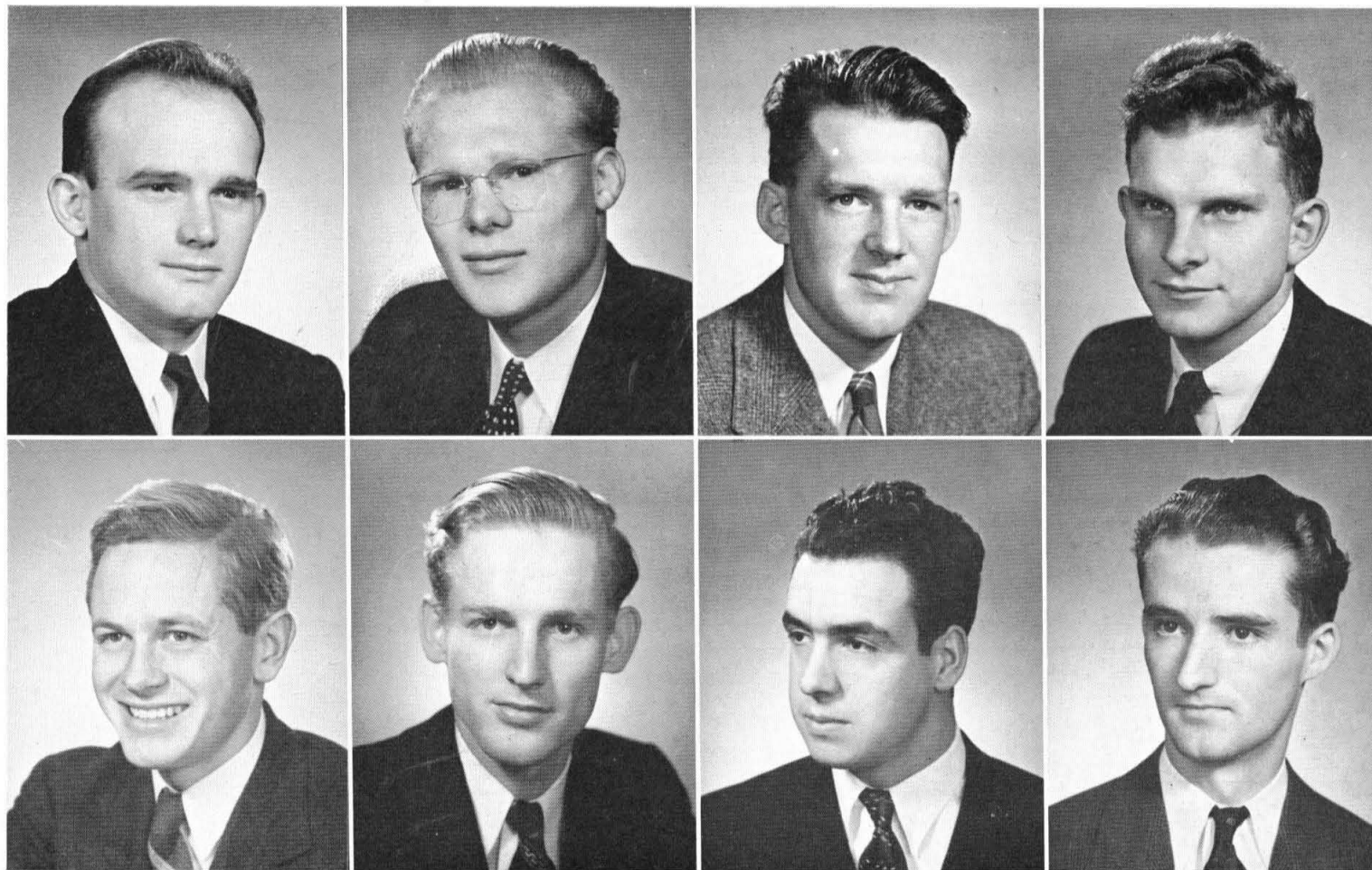
ROBERT T. MERRICK came from Compton and took to Tech and to water like the proverbial duck. Bob was captain of the water polo team for one year, of the swimming team for two. Holder of conference record for two years. Member of Chem Club, Beavers, secretary-treasurer of Varsity Club. . . . LLOYD WILLIAM MERRYFIELD is a member of Tau Beta Pi, of Throop Club and of the Chem Club, and has been junior and senior track manager. Comes from Los Angeles High. Enjoys good music and long hikes, and has been especially interested in the application of organic chemistry to biological problems.

Above, top to bottom: Brockman, Brown, Cunningham, Grossberg. Right: Holzman, Howton, Mader, Merrick, Merryfield.



Chemists

Electricals



Top row: Albrecht, Almassy, Ashbrook, Beers. Bottom row: Brandt, Brown, Carr, Chastian.



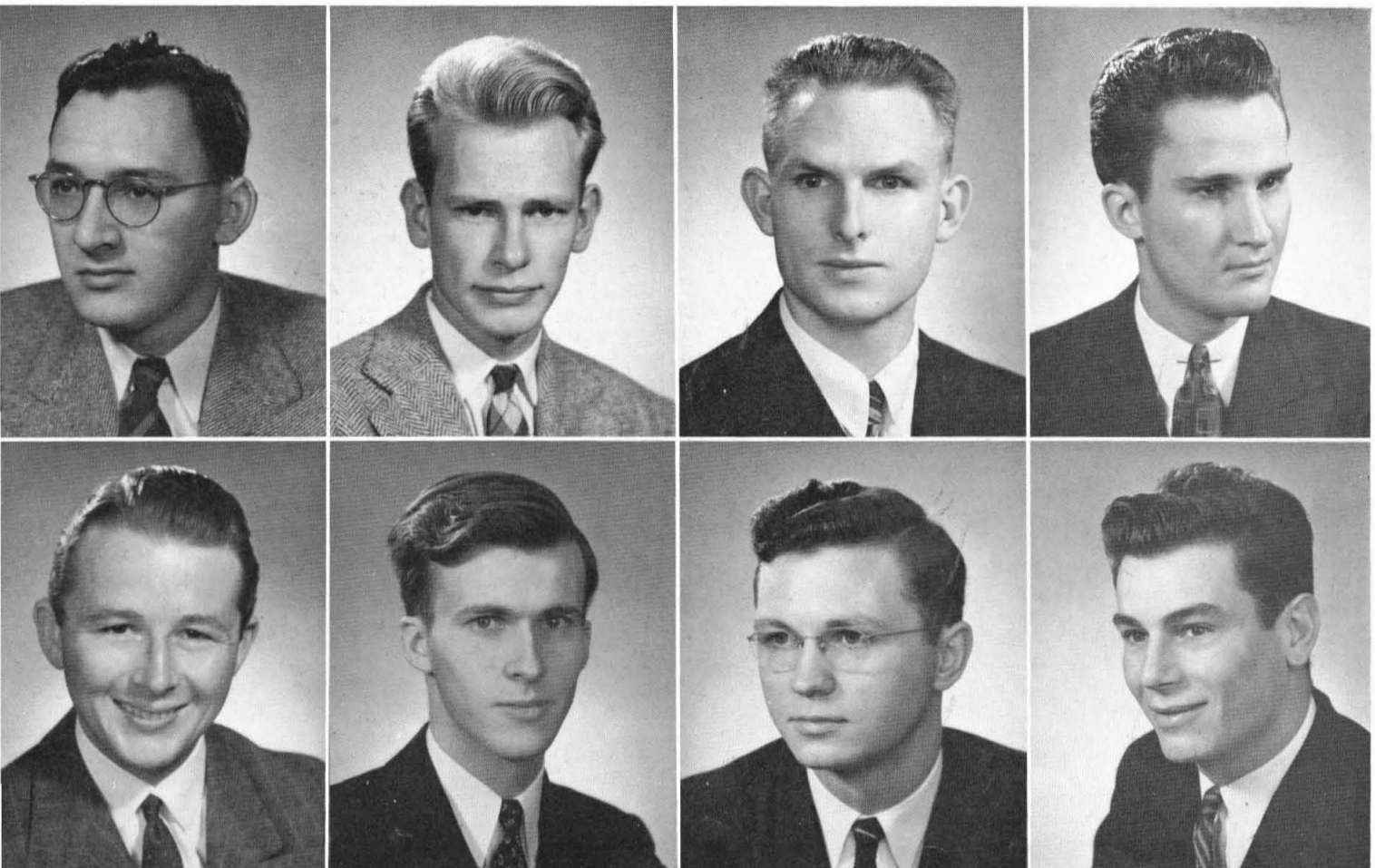
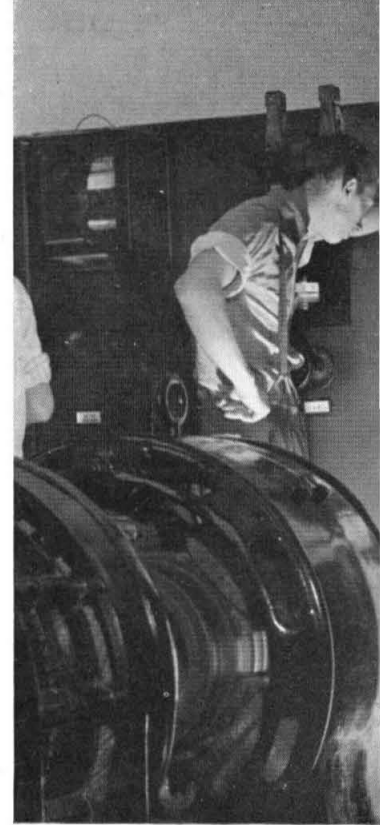
ALBERT PEARSON ALBRECHT has been a busy man since entering Tech. President of Fleming House. Captain of varsity basketball. Two year letterman. Numerals in swimming and basketball. House swimming, softball, and football. Member of Beavers and Varsity Club. Two Honor Keys. Also found time for the Big T, California Tech, stage crew, A.I.E.E., and Pomona. . . . A member of Throop Club, GEORGE W. ALMASSY came to Tech from Glendale J. C. in 1959. While at Tech he has majored in electrical engineering and has taken an unusual interest in accounting and economics. . . . FRED M. ASHBROOK, a member of Throop Club, has been active in A.I.E.E. Transferred from P.J.C. in 1959. Fred could be counted on to do his part. As a technician on the Exhibit Day communications committee, he helped string miles of wire and kept the P. A. system in working order.

KENNETH H. BEERS is one of us who has worked his way through school. Throop Club member. Amateur radio operator. Member of the Athenacum waiting staff. Stayed out of school a year to work at Lockheed. Kenney will undoubtedly talk his way to wherever he's going. Well liked by all. . . . ROGER BRANDT, originally of the class of '41, dropped out after his junior year to catch up on his exchequer. Came back to Tech in time to graduate with the class of '42. Finds the other sex very interesting. Has done most of his courting in South Pasadena. Member of Throop Club.

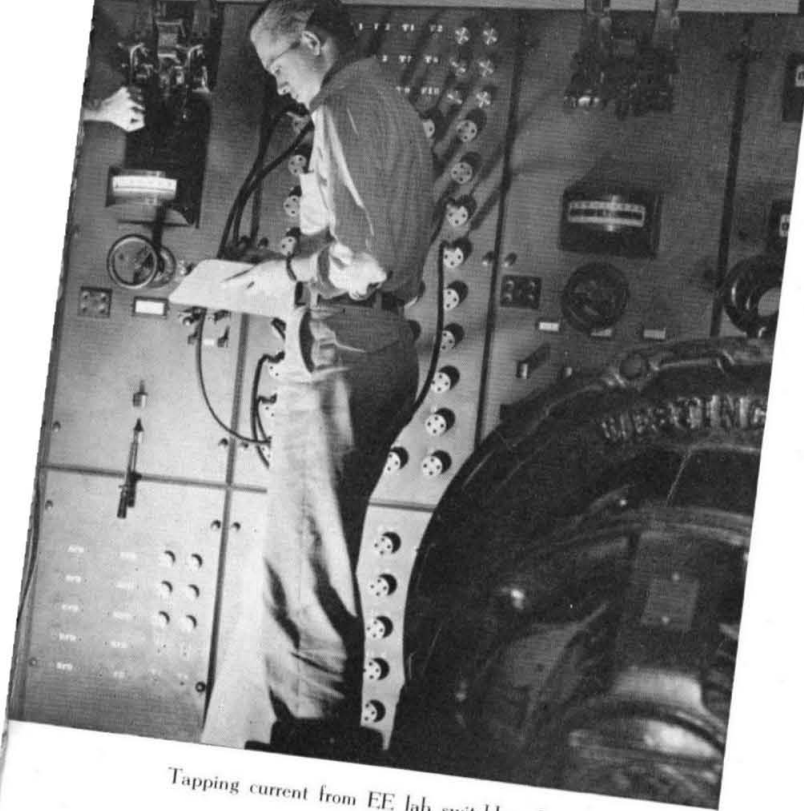
Secretary of Throop Club and president of the A.I.E.E., CHARLES M. BROWN JR. still found a good deal of time to spend in the vicinity of the Tri-Delt house at U.C.L.A. With this single addition, his major interests are sound and electronics. Beaver. . . . Big and well built, EARLE ALBERT CARR made a lasting reputation in Dabney House the night he caused the famed India Rubber Man to say "uncle." Earle won his numerals in frosh football. Spent much of his time with a mysterious miss. Comes from Lone Pine High. A radio ham. . . . J. ALEXANDER CHASTAIN finished school at the end of the first term, 1942. Played football and baseball for Blacker. He seemed to have an unusual fondness for student house ice cream. Served time on the Athenacum staff of waiters.

Electricals

GEORGE IRVING COHN is probably the only EE who ever took advanced calculus for the fun of it. Known not only for his academic industry, George will be long remembered for his "Where's my bed?" after fellow Ricketts men had assembled a Model T and installed it in his room with the engine running. . . . CLIFFORD HOAGLAND entered Tech in his junior year. Made up for lost time by showing plenty of his classmates how those problems can be worked. An enthusiastic EE, Cliff was secretary-treasurer of the student A.I.E.E. branch. Got away from the books to play football for Throop Club. . . . JOHN BARRETT HOWENSTEIN came to Tech from Brawley. He lived off campus and was active in the A.I.E.E. Spent a year working for U. S. Motors. His is the distinction of being one of the first students to be drafted. ALEXANDER STAPLER JERREMS, perhaps best known as Chaplain of the Dabney Hunt Club, has served also as librarian and treasurer of Dabney House. Member of Tau Beta Pi. His room was long the gathering place for the reflective, the reminiscient, and the poker playing. His classic poem will long be remembered by Techmen and Scrippskirts alike. . . . JOHN MILES is top man, scholastically, in the class. President of Tau Beta Pi. Editor of the California Tech and Little T. Board of Control. Beaver. Three Honor Keys. Miles carries away with him the secret of taking 65 units, instructing a 14-unit course, and "wandering hand-in-hand" the lanes of San Marino, all at the same time. WALTER PAGE MITCHELL is one of those really swell fellows who manage to remain popular despite worrying their section-mates aplenty. Tau Beta Pi. Mitch hails from Kansas City, Mo. Entered Tech in his sophomore year. Spends his spare hours hiking or listening to music. . . . ALBERT D. PAUL, a versatile EE, distinguished himself in many activities. Al wielded the gavel in Ricketts House. Played a major part in organizing the Radio Club, of which he was president. Played scrub football, house baseball, basketball, and football. Ricketts' athletic manager. Beaver and Honor Key. A Ricketts' man first, last, and always. . . . "Pretty Boy" WARREN GEORGE PROCTOR not only earned distinction as a member of Tau Beta Pi, but also served as vice president of Fleming. Vice president of the Beavers. Board of Control. Varsity Club. Athletic activities have included three years of varsity football and house swimming. Two Honor Keys. Popular and outstanding member of the senior class, versatile JOHN RUBEL busied himself with the Board of Control, president of Beavers, chairman of frosh camp, and two-year publicity manager. Honor Key. Accomplishments this year were election to Tau Beta Pi, seizing control of the student defense organization, and announcing his engagement. . . . Except during Ricketts' social functions, CHARLES E. RUTHERFORD spent week-ends near home in Beverly Hills. A one woman man. Enjoys ice skating. Will be remembered as the last of "Der Chumstaffel." In earlier years Chuck helped at house football and cross country, and was baseball manager. . . . ERIC H. SCHAUER, the king of horseplay, transferred from U.C.L.A., and displayed a disposition that soon earned him a place in Tau Beta Pi. Also active in Ski Club, A.I.E.E., and S.A.E. Belongs to Throop Club.



Top row: Cohn, Hoagland, Howenstein, Jerrems. Bottom row: Miles, Mitchel, Paul, Proctor.



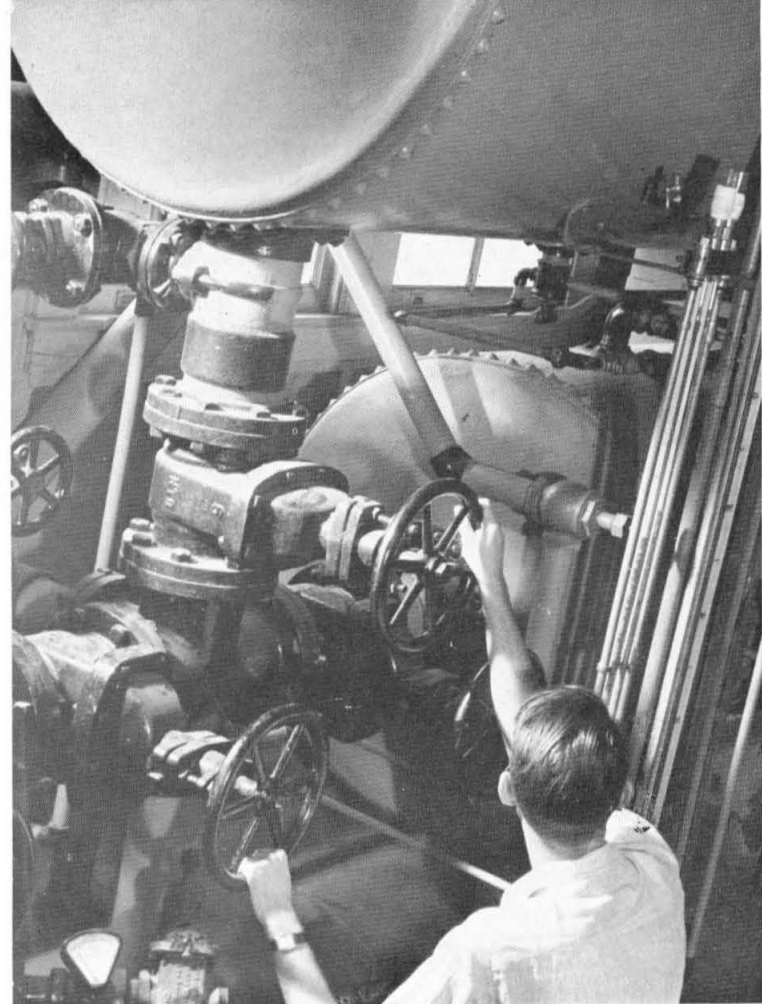
Tapping current from EE lab switchboard.

It wasn't long after MAYNARD STRADER JR. came to Tech from L.A.C.C. that he became vice president of A.I.E.E. Recognized for high grades and building high fidelity amplifiers. Devotes extra time to tennis and Throop's social affairs. . . . BILL TURNER's goal at Tech was putting out a high grade Calif. Tech. And he succeeded during his two years as editor—pushed the rating of the paper clear up to All-American honors. But that wasn't all: vice president of Radio Club, Beaver, Honor Key, member of A.I.E.E., and Ricketts. . . . Coming to civilization in '38 from Seward, Alaska, black-bearded KENNETH URBACH gained fame as chief chalk thrower and professor heckler of the EE section. More constructive activities involved president of Radio Club, member of A.I.E.E., employment committee, and Fleming. Active in ham radio: K7FSX.

Manager of managers, PAUL N. A. VEENHUYZEN has been frosh football, junior baseball, and junior intramural manager. Member of the Glee Club, A.I.E.E., and Calif. Tech staff. Has a cultural interest in literature and art. Received a commission in the Navy. . . . A local boy from South Pasadena, CAROL M. VERONDA originated much of, and participated in all of the section activities. Was well liked for his congenial attitude. Assisted in Throop Club activities and participated in A.I.E.E. functions.



Top row: Rubel, Rutherford, Schauer, Strader. Bottom row: Turner, Urbach, Veenhuyzen, Veronda.



Entering Tech after two years at the Naval Academy, JACK LELAND ALFORD has crammed four years' activity into three. "Sack" performed in several of Doc Eagleson's plays. Member of the Drama Club. Beaver. Varsity soccer. Also finds time to be corresponding secretary of Tau Beta Pi and president of the student branch of A.S.M.E.

PAUL H. ALLEN JR. is known to his friends as the "Fresno Romeo." Treasurer of A.S.M.E. student branch and of Fleming House. Member of the publicity committee. Beaver, Varsity Club member. Sports reporter for the California Tech. Active in varsity and frosh tennis. Plays football, basketball and track for the house. . . . A graduate of Williams College. EDWARD RICE BARTLETT JR. entered Tech as a junior. Elected to Tau Beta Pi. A prominent social figure in Ricketts. Also a key man in house football, basketball, and swimming. Varsity golf manager. Only Ted's ineligibility kept him off the golf and track teams.

Entering Tech as a junior transfer from Tulane University, FREDERICK K. BAUER brought with him a stock of tall stories. Member of Throop Club. Claims that engineering studies interfere with his outside activities. Fred will be remembered for his professed knowledge of any subject from soup to nuts. . . . Known to fellow ME's as "Stutterin' Sam," PAUL SIGVARD BERGH transferred from Tufts College, Mass., in his sophomore year. Member of Blacker House and of the A.S.M.E. Varsity swimming team. Active in YMCA. Drama Club. Attends Musicale regularly. Spends his spare time as an amateur photographer. . . . A member of Fleming House, VICTOR G. BRUCE has been active in track. Vic made his letter in cross country. Numerals in swimming. Member of Fleming's cross country, swimming and track teams. Also in the A.S.M.E.

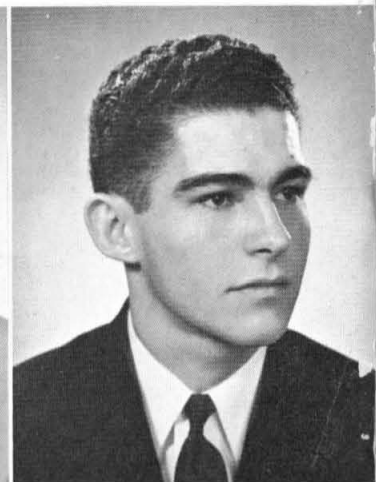
Top row: Alford, Allen, Bartlett, Bauer, Bergh, Bruce.
 Second row: Crater, Dall, Davis, Dixon, Given, Gold.
 Bottom row: Green, Robert Hall, Warren Hall, Head, Hicks, Hoagland.

WILBUR D. CRATER spent his first two years at P.J.C., entering Tech as a junior. Joined Throop Club and then moved into Dabney last term this year. A.S.M.E. Bill's friends will remember him for his tall stories and southern drawl.

GEORGE ROBERT DALL came to Tech in his junior year from Annapolis by way of San Diego State College. An iron-lung on the cinder path, George won his letter in cross country. Often runs three or four laps after a race just to cool off. Skiing enthusiast and member of the Ski Club. Active on Ricketts House cross country, track and swimming teams.

STEWART DAVIS' roaring rallies and Pajamarino marked him as a successful rally committee chairman. Treasurer and vice chairman of A.S.M.E. Beaver. Board of Directors. Varsity baseball manager. Played softball for Ricketts. "Stew" is well liked around the campus. Enjoys a good time and is always ready to make a night of it.

JOHN KERNER DIXON's friends always wonder in amazement what keeps him together, but under an appearance of complete relaxation and laziness lies the makings of a record-breaking swimmer. Won numerals and three letters each in swimming and water polo. Plays baseball on the Dabney House team. Varsity Club.



Mechanicals

Freckled, red-headed FRANK GIVEN was the life of many a party. Around Dabney he helped in house track and softball. Comes from far south in San Diego. Claims an interest in aviation. When he threw a rod through the block of his Model A, Given arranged a wheel transfer with George Meyer who had suffered blow-outs in three tires. The combination actually ran. . . . SYDNEY KENDALL GOLD had a hand in almost every extra-curricular activity. Frosh basketball and swimming, varsity water polo and swimming letters. Fleming House basketball, track, and swimming. Rally committee chairman, Ski Club, California Tech, Big T, Musicales, U.C.C., Tau Beta Pi, Varsity Club, Beavers, Press Club, and Honor Key. . . . ELLIOTT A. GREEN entered Tech way back in 1936. Stayed out a few years and had the courage to come back and finish his undergraduate work. Took the great step in life in August, 1940. Member of Throop Club, E. A. has a hobby of building model airplanes in his spare time.

ROBERT FRANKLIN HALL has been a member of the U.S.N.R. and so expects soon to be in the Navy. Part of Fleming's athletic contingent participating in house football, baseball, basketball, softball, and swimming. Bob has also been interested in varsity baseball and won frosh numerals. Y.M.C.A., A.S.M.E., and U.C.C. Likes aeronautics. . . . A Santa Ana J.C. transfer, WARREN ACKER HALL soon became interested in the orchestra, A.S.M.E., and Throop Club. Topped it all with election to Tau Beta Pi. Week ends he works as hydraulic engineer in Santa Ana. Familiar with amateur paleontology. His presence cannot be mistaken in a classroom. . . . The Ski Club revolves about BEN HEAD, president this past year. Besides his skiing awards, Ben assisted in Dabney House football and baseball. Also most active member of Dabney Hunt Club. Well liked by everybody. . . . Smiling, popular WILLIAM BERKELEY HICKS has truly been the leader of his class ever since his appointment as freshman class chairman. President of frosh, juniors, and finally of the student body. Always active, Bill did his share for Ricketts as vice president and participant in sports and social affairs. Beaver, Honor Key. Bill was also boxing instructor and helped organize Institute guards after the fateful December 7. . . . JACK C. HOAGLAND has successfully combined working at Lockheed with attending Tech. Has found time for photography, Throop Club's election committee, A.S.M.E., and Thursday night dancing class.



Mechanicals

O'THNIEL HORNE came to Tech in 1937 from El Centro, paused a few years to help on some Lockheed airships, and now is finishing his academic career. Lanky "Oats" helped Fleming in house tennis, track, and basketball. Frosh tennis, A.S.M.E. Has a good time loafing. . . . WILLIAM G. KENNEDY has been one of the outstanding ME's. In his sophomore and junior years, Grady putted two golf letters. A member of Tau Beta Pi, he kept busy as treasurer of Ricketts, and secretary of the Glee Club and A.S.M.E. . . . HENRY E. KREMERS graduates this year after beginning at Oxy, transferring to Tech, and working at Technicolor. While on the outside, he married and came back with an interest in photography, gardening, and sports. Keeps in trim with Throop Club softball and tennis, and varsity baseball. Member of A.S.M.E.

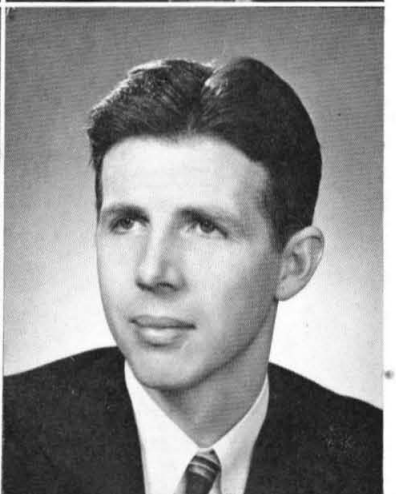
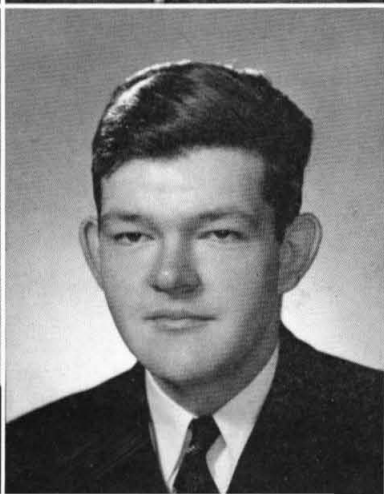
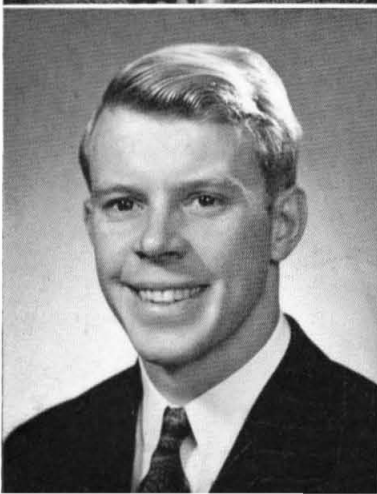
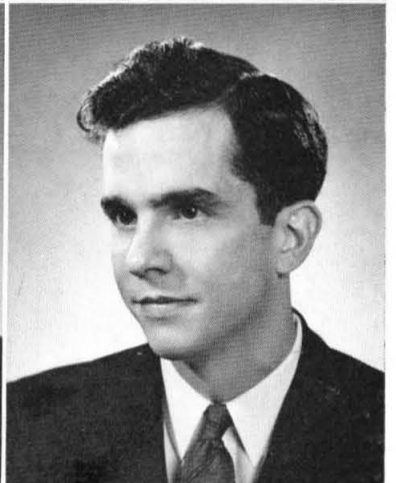
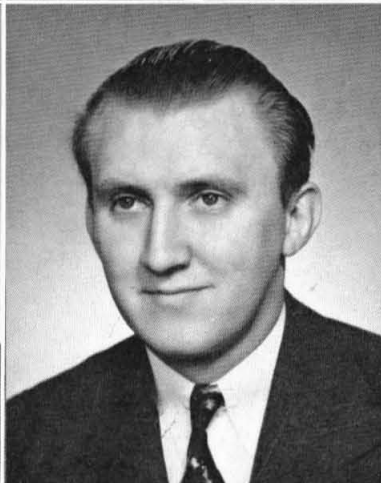
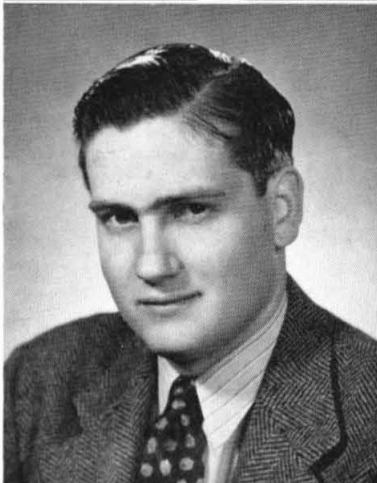
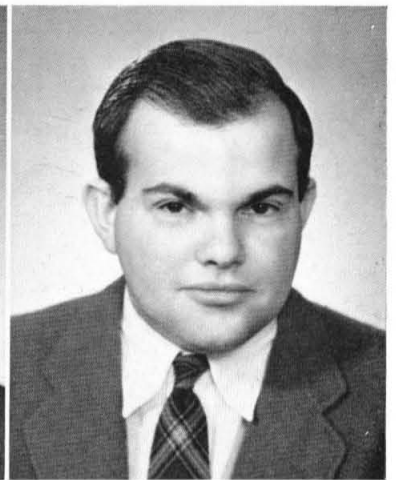
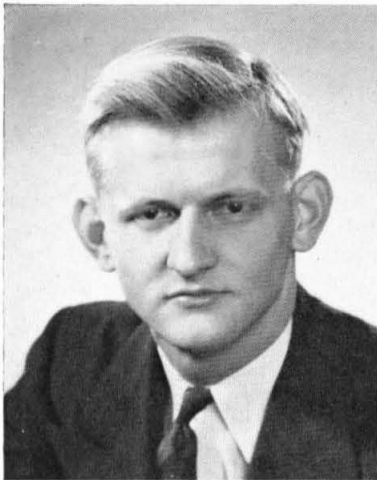
ALFRED LANDAU transferred from U.C.L.A. in 1940 and stood the athletic department on end by organizing, coaching, and captaining a soccer team. Also musicale commentator, feature writer on California Tech, Beaver, football player, and Honor Key winner. Member of Throop Club and possesses a machinist's card. . . . A man of long card games and little sleep, JAMES FLETCHER LANE brought along his Texas drawl when he arrived in 1940. Memorizes the history book the night before the final. Lead a rebellion of Throop Club frosh. Guards Dabney Hall in case of black-outs.

Horne
Lane
McKibben

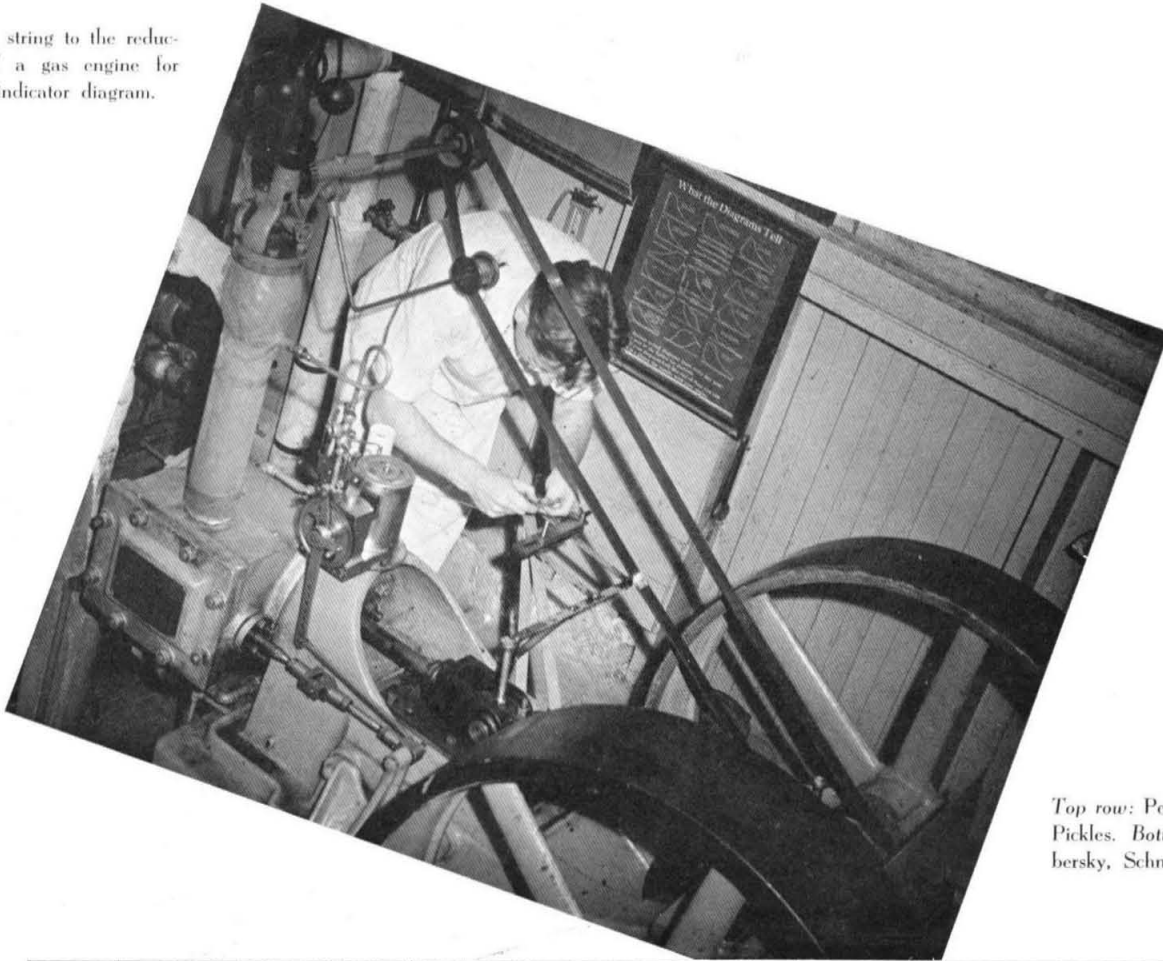
Kennedy
Madley
Moore

Kremers
Martens
Nyborg

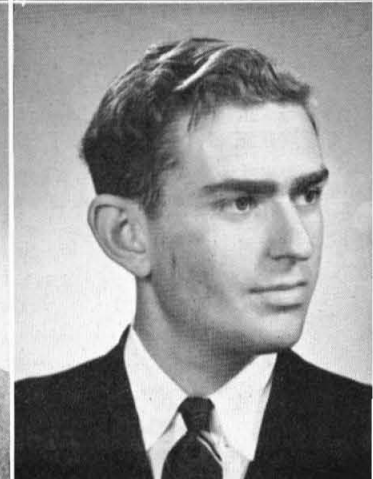
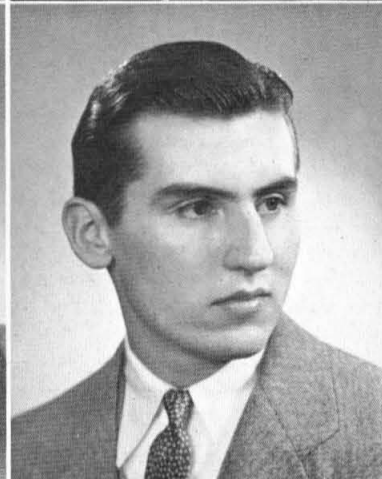
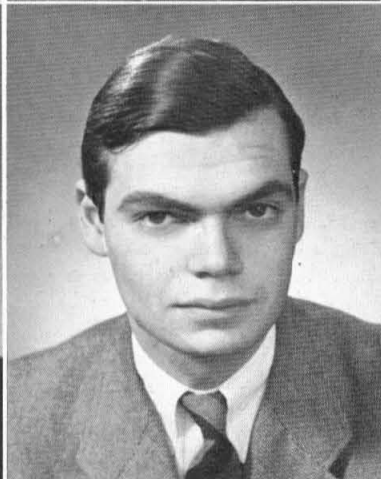
Landau
McCormack
Osborne

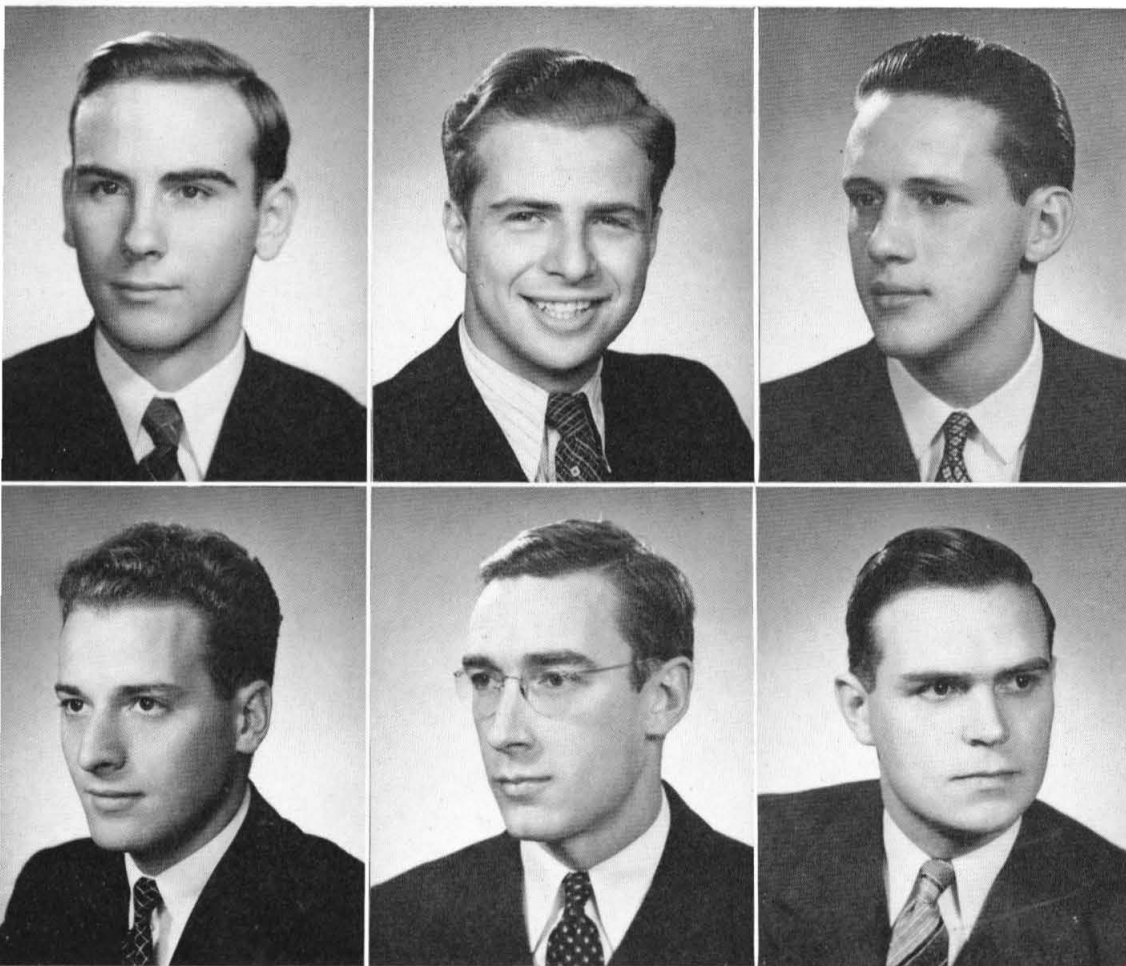


Attaching a string to the reducing arm of a gas engine for making an indicator diagram.



Top row: Pearson, Piatt, Pichel, Pickles. Bottom row: Price, Sakersky, Schneider, Smallberg.





Top row: Smith, Sutton, Weller.
Bottom row: Wood, Woods,
Young.

HARRY HUMPHREY MADLEY, better known as Sam, is another junior transfer from P.J.C. Didn't know his own ability until he tried Throop Club baseball and basketball and proved a star. Also a flash on the varsity tennis team with two letters. Elected to Tau Beta Pi. Races pigeons for a hobby. Varsity Club. . . . Transferring from P.J.C. the same time as Sam Madley, HOWARD E. MARTENS also joined Throop Club and went out for similar house sports: baseball, basketball, and tennis. Consequently, Howard and Sam are seldom seen separated and have become the best of pals. . . . RICHARD W. McCORNACK, a quiet, unassuming chap from Elgin, Illinois, was always hanging around Throop Club playing bridge until the Pearl Harbor incident. Now Mac waits on the top floor of Kerckhoff for black-out signals. Tinkers with automobiles.

PAUL S. McKIBBEN JR. is one of Blacker's outstanding athletes. Two varsity tennis letters and numerals. Earned a soccer letter and played scrub football. Helped his house teams in baseball, softball, basketball, football, and cross country. "Skid" has been house athletic manager and U.C.C. Assisted at frosh camp, spends the summer at Balboa boat works, and enjoys sailing and riding English motorcycles. . . . ROBERT LAYTON MOORE has been a member of Dabney House, having entered from Los Angeles. Considered an authority on materials and processes. Devotes his moments of relaxation to the Musicales and photography. Joined A.S.M.E. . . .

Manila was the home of M. McRAE NYBORG. Thoroughly a Ricketts man, Mac has been very active on the social committee. Assisted with California Tech accounts. Presided over the Glee Club for two years. . . . HERBERT GEORGE OSBORNE commutes daily from Arcadia. Self-supporting, he also has a family and claims his son will be the first of a '42 graduate to come here. Throop Club and A.S.M.E. Rebuilds automobiles and experiments with scientific farming.

CHARLES W. PEARSON will be remembered for his enthusiastic participation in the band as trombonist. Worked hard on the frosh and varsity tennis teams. Assistant manager of the band for two years. Enjoys welding, music, and building race-cars. Chuck was a member of Throop Club. . . . ALVIN R. PIATT is a loyal member of A.S.M.E. and Throop Club. Quiet, unassuming, conscientious, hard-working. Could often be found playing tennis with Urbach for relaxation. Calls Long Beach home. . . . PICHEL WILSON PICHEL, just "Pitch" for short, is the pride of Flintridge Prep. Bulwark of the soccer squad. Spent hours over motorboats and "hopped-up" cars. Active in A.S.M.E. and prominent Dabneyite. Bases in Beverly Hills.

Mechanicals

ARTHUR M. PICKLES comes all the way from Victoria, B. C. Made his numerals in frosh cross country. A mainstay of Fleming cross country and football teams in later years. Spends his time on photography and machine work, at both of which he is proficient. . . . HARRISON ALAN PRICE is a Fleming activity man. Got into Varsity Club via four years of football—two varsity letters and frosh numerals. Rodeo chairman and senior class secretary. Beaver. Fleming House basketball. Musicales. Earned an honor key this year. Took over election chairman duties when Willits became sick. . . . ROLF H. SABERSKY, modest, silent and efficient, is a transfer from Swiss Federal Tech. Elected to Tau Beta Pi junior year. Authority on painting, especially Van Gogh. Treasurer of senior class, vice president of A. S. M. E., and a Dabney swimmer.

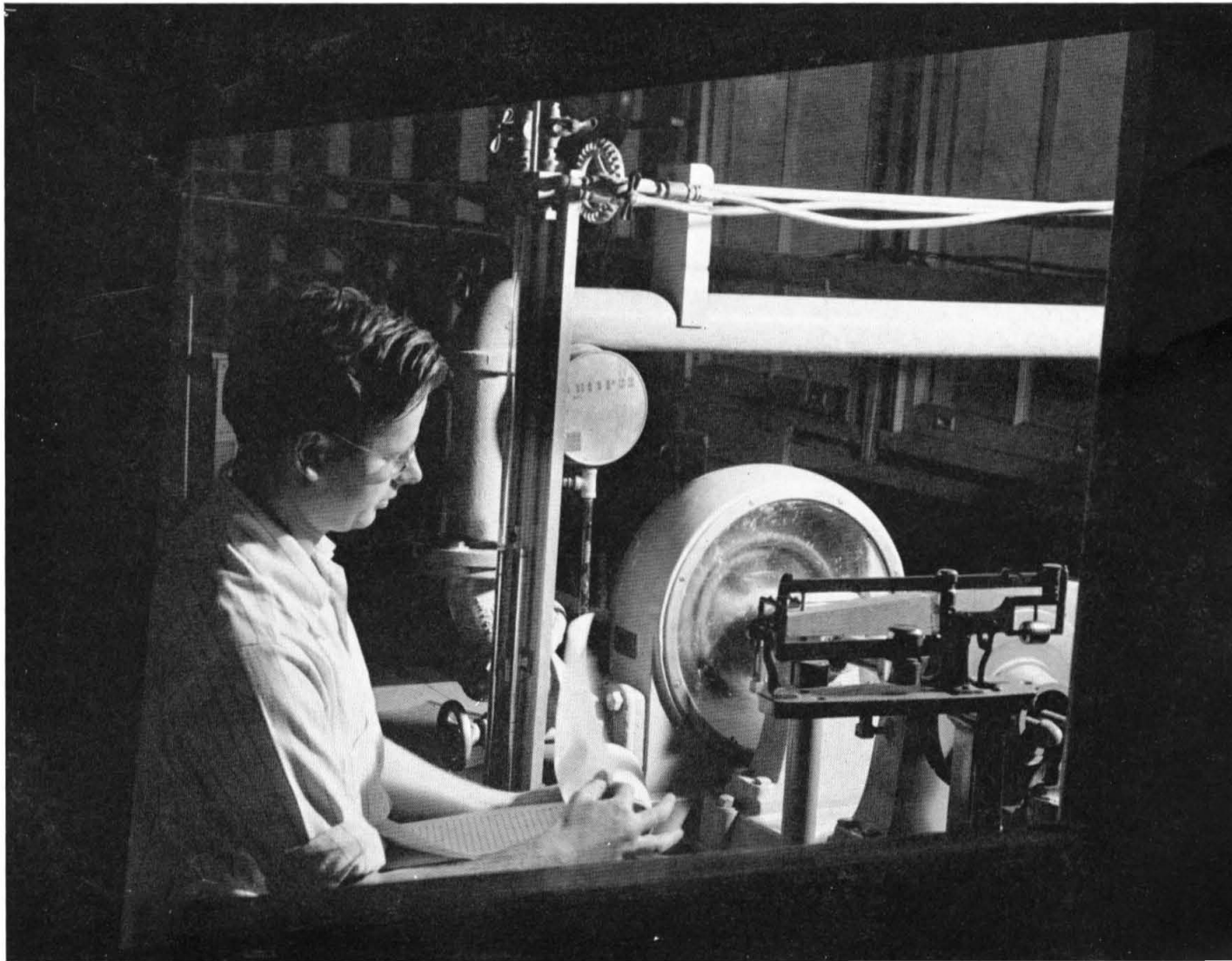
ARTHUR JOHN RUDOLF SCHNEIDER, "Snuffy," is God's gift to Scripps. Varsity Club, Beaver, Tau Beta Pi, A. S. B. secretary, Blacker social chairman. Numerals and three letters in cross country and numerals and two letters in track; cross country captain. Alameda's claim to fame. Two honor keys. . . . MERLE SMALLBERG has been active in Throop Club. Also a member of A. S. M. E. Entered Tech from Lincoln High, Los Angeles. Was frosh track manager. . . . From P. J. C. came A. S. M. E. student branch chairman LAWRENCE W. SMITH. Oratorical ability won second prize for him in the Pacific Southwest speech contest of the Society this spring. Interest in music found outlet in work as program chairman and president of Caltech Musicales. Member of Throop Club.

GEORGE P. SUTTON entered Tech in '40 as transfer from L. A. C. C. Athletic interest centered in newly organized soccer team. Mental ability was recognized with election to Tau Beta Pi. His stock of stories warmed student guards on cold December nights. Helped Throop Club at tennis. A. S. M. E. . . . A. S. B. publicity manager ROY ASHTON WELLER JR. hailed from Chaffey Union High School. Letters in water polo and golf admitted Roy to the Varsity club. A trackster, swimmer, and basketball player for Fleming. Elected junior class treasurer and served California Tech as circulation manager. Beaver. Earned honor key last two years. . . .

Huntington Park gave Tech an indefatigable man in FRANK W. WOOD. While attending school, Frank managed to work a shift each night at General Petroleum. Found time for varsity and interhouse cross country. Ricketts and A. S. M. E. An accomplished typist and stenographer.

Dabney House prexy GORDON K. WOODS showed athletic prowess with four years water polo, skiing, and swimming. Aided in organizing Ski Club, and served as president. Varsity Club, Honor Key, and Beaver. Three time prize winner in A. S. M. E. speech contest. Chairman and treasurer of student branch of the Society. Operator DBNY "radiator" broadcasts. . . . DAVID ARTHUR YOUNG transferred as a sophomore from Central College, Missouri. Member Ricketts and played house baseball. Married in '40 while working a year at Lockheed. So interested in flying and planes in general that he holds a private license.

Testing the twelve inch Doble Pelton wheel.



Physicists

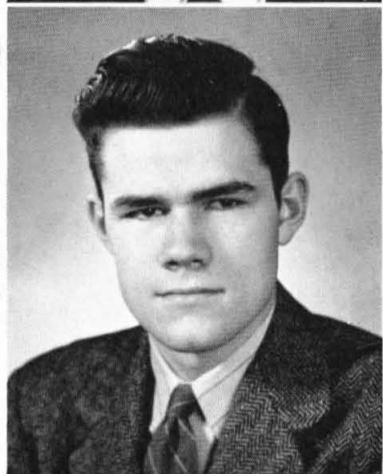
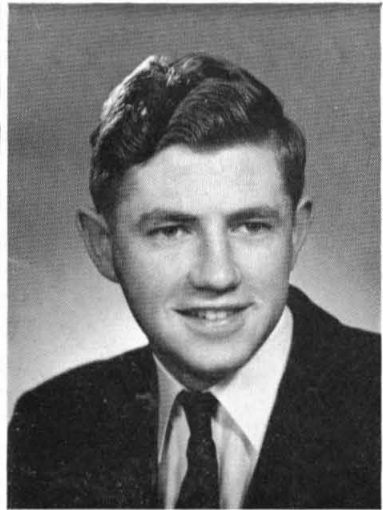
Soft-spoken BILL BLUMENTHAL always insisted on complete derivations of equations in class. Mainstay of Dabney in house cross country, football, and basketball. Likes flying. . . . Philosopher, athlete, crooner, and married man, DWAIN BOWEN could hold his own in any field. Even became a great Caltech actor and presided over Drama Club. His speed in sprints earned him track awards every year, and admitted him to Varsity Club. This Fleming man will be remembered for "606" and operetta promotions. . . . After bothering to acquire a B.A. in math at Fresno State, FOREST MELROSE CLINGAN decided he needed a little practical knowledge and so took physics. Deserves a hand for his uncanny ways of solving problems. Baffled Throop Club by announcing his marriage third term this year.

ROBERT N. HALL also varied his college career by getting married. But before this, and before leaving school last year for a year as research engineer at Lockheed, Bob was captain of the famous Blacker wrestling squad. He was also out for house swimming, football, and skiing. This year he made Tau Beta Pi. . . . DAVID L. HILL'S suth'un drawl attests to his Mississippi childhood. Dave is perhaps best known as editor of the enormous ad-packed Little T of the past year. Also president of the frosh Y, vice president and social chairman of Dabney House, and member of Pi Kappa Delta. . . . JACK HOWARD IRVING is one of the mental giants of Dabney. Manufacturer extraordinary of puzzles, campus center of integration, and frequent tutor, Jack functions as problem solver for the house. Helped rewrite Dabney's by-laws.

The F. B. I. may call on PETER HENRY KAFITZ as a dangerous spy. Through his hobby of photography he has acquired a collection of shots of many strategic railroads and bridges. He entered in '58 from Glendale High and has stuck to an old interest in applied physics. . . . Although EMERSON L. KUMM didn't enter Tech until 1940, having transferred from Fresno State, he made up for lost time by actively engaging in Throop Club affairs. Spare moments were spent playing tennis, dancing, and arranging his stamp collection. . . . One of those few ambitious and capable students who have graduated in three years, RICHARD LATTER was rewarded with election to Tau Beta Pi. In spite of his scholastic activity, he is a live member of the Musicales.

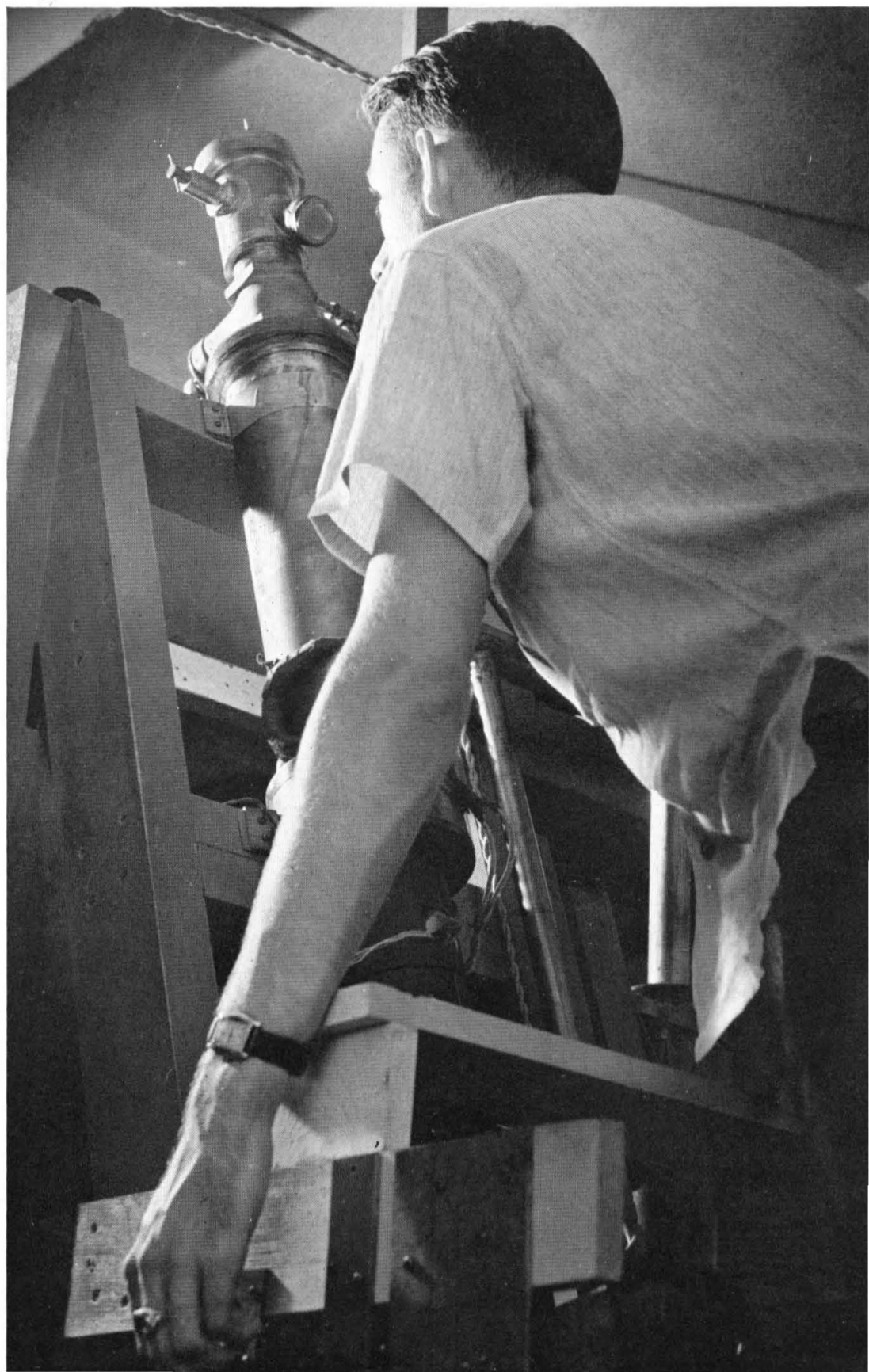


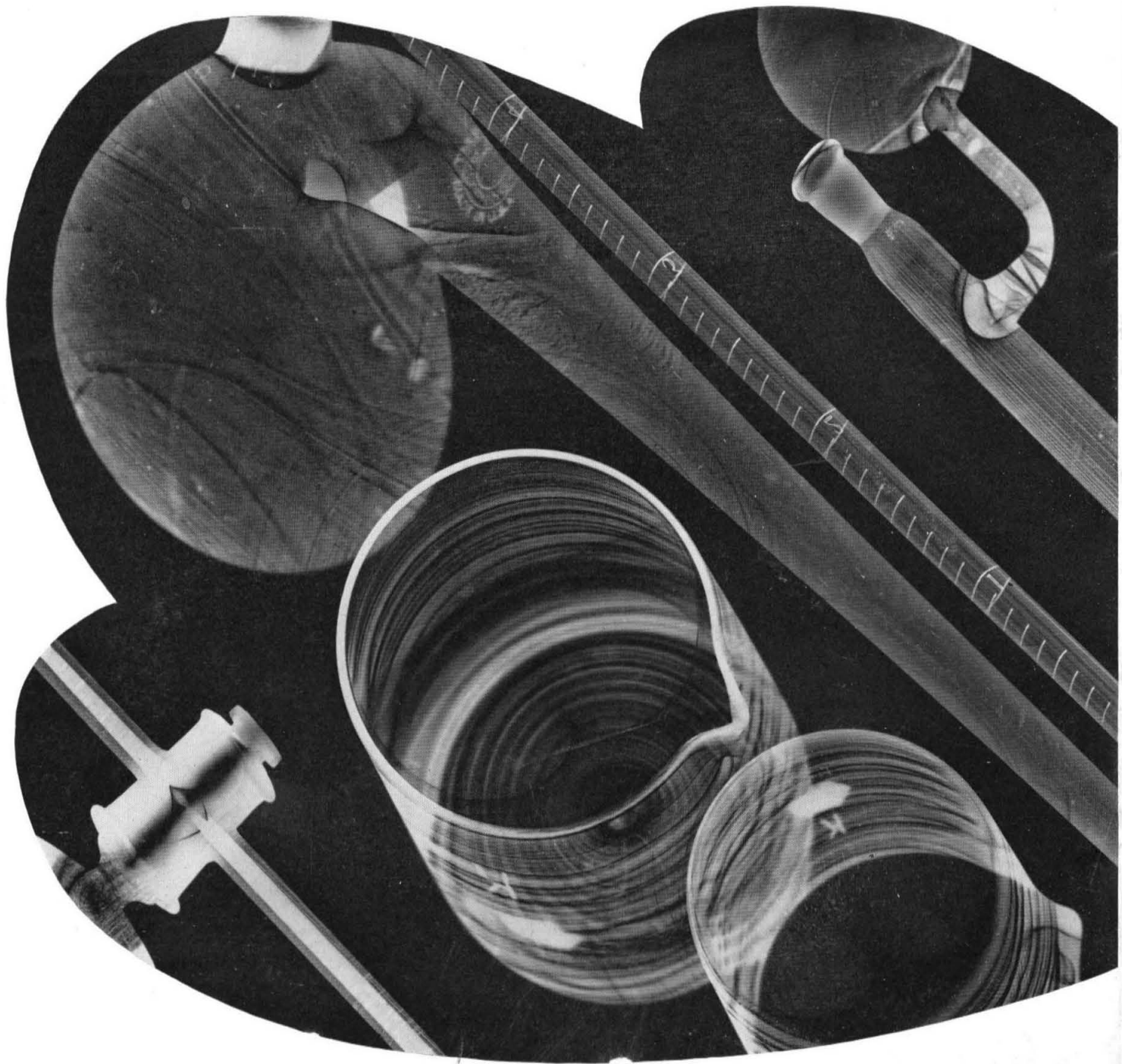
Coming from Eagle Rock, the home of the Bengal rivals, FRANCIS V. LYLE specialized in cross country and track, earning frosh cross country numerals. Helped Throop in the same house sports. He's an applied physics major. . . . ROBERT EARL MACKENZIE is another honor student, among his scholarships being the rare Sigma Xi undergraduate award. Bob's respect among his classmates earned his election to Tau Beta Pi. Commutes from Los Angeles. Enjoys playing the piano and pipe organ. . . . ROBERT ROSS STALEY has been one of the school's foremost authorities on swing music, particularly Shaw and Goodman. Out for Ricketts softball and football. Wrote for California Tech. Worked on the Big T. Member of Tau Beta Pi. Ardent photographer, even though influenced by Hurrell. Also a debater.



Above: Lyle, MacKenzie, Staley.
 Left — top row: Blumenthal,
 Bowen, Clingan. Center row:
 Hall, Hill, Irving. Bottom row:
 Kalitz, Kumm, Latter.

The electron microscope which
 magnifies by diffusing electron
 streams.

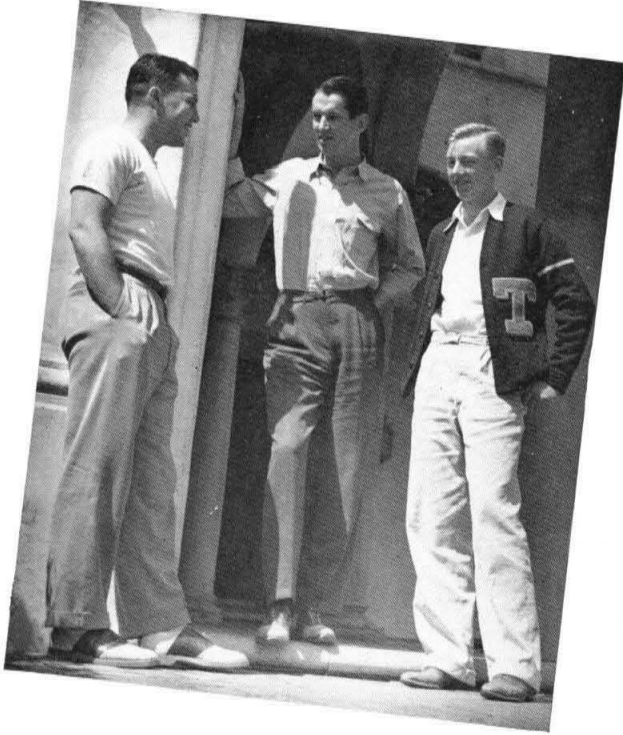




M E N O F

ACTIVITIES





Macartney, Davis and Strickland



Bishop gets the low down on his duties as vice president from the retiring officer, Gillette.

Concerned with the need for adapting the studentbody to a war curriculum, the Board of Directors this year kept much busier than usual. Through its hands was developed the undergraduate civilian defense program which coordinated different committees in preparation for all conceivable emergencies. In conjunction with the City of Pasadena, the gas decontamination squad acquired apparatus and received instruction in regular classes. Under the direction of John Rubel, a complete network was laid for the guarding and protecting of the Institute area. Late this spring, arrangement was made for nearly one hundred students to donate blood to the Red Cross.

The presiding officer of the Board was suave Bill Hicks, studentbody president. Under his leadership the members approved a motion to buy a two hundred dollar defense bond with the profits from the Little T.

With the end of second term, the new president, Charles Strickland, stepped into office. As is customary, he attended the convention of studentbody presidents of Pacific Coast colleges. This year they met at Sun Valley, Idaho.

In addition, gold track shoes and lettermen awards were voted en masse to the year's championship track team, the first since 1926.

Directors and Judges

Tremendously proud of the Honor System that they themselves have built up from tradition, the men of Caltech take their examinations without supervision and trust their fellow students implicitly. Once in a while, however, a violation of the system does occur, and the students handle such cases themselves through their Board of Control.

Operating on the principle that an ever-increasing severity in sentences will lead to a decrease of what few infractions there are, the Board, under the capable leadership of Warren Gillette has made an increasing effort this past year to inform the studentbody of the function of the Board and the severity of the sentences invoked for a violation of the System. Much has been done in this line by publishing in the "California Tech" cases of previous boards (names being deleted) with an account of the charge, the testimony, and the sentence.



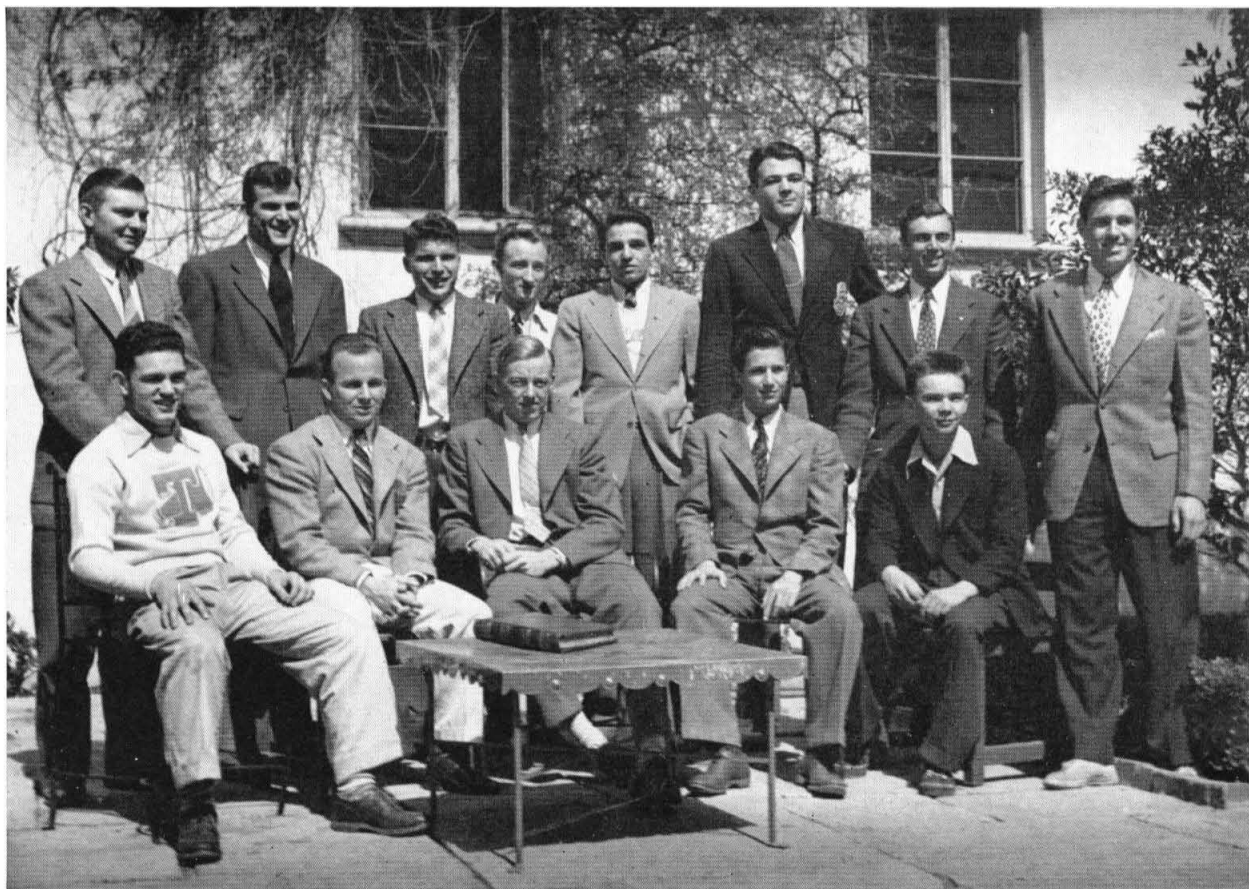
Board of Directors. Above—left to right: Charles Strickland, first representative at large; Warren Gillette, vice president; Everett Macartney, athletic manager; Stewart Davis, rally committee chairman; William Hicks, president; Amasa Bishop, secretary; Roy Weller, publicity committee chairman; Tway Andrews, second representative at large; Wayne MacRostie, treasurer.

Board of Control. Below—seated left to right: Tommy Carter, Warren Proctor, Bill Fair, Warren Gillette, chairman; Amasa Bishop, secretary; John Miles, Holt Ashley, Al Grote, Webster Beckstead. *Standing:* Bill Hicks, John Rubel, Herman Proctor.

New Officers

Right—seated: Bill Bair, yell leader; Deane Morris, treasurer; Charles Strickland, president; Ed Goldsmith, co-editor of *California Tech*; Tommy Carter, second representative. *Standing:* Harry Moore, publicity chairman; Tway Andrews, secretary; Willis Bussard, first representative; Paul Thiene, YMCA president; Amasa Bishop, vice president; Holt Ashley, co-editor *California Tech*; Bob Bashor, rally committee chairman; Charles McDougall, athletic manager.

Below: Election time.



Elections this year were marked by a more spirited campaign than seen for some time. Signs reached billboard proportions, and at least one candidate, Deane Morris, set the unheard of precedent of handing out real dime cigars.

After the smoke cleared and the excitement of the annual pre-election rally passed, the student body went to the polls registering a record vote to give the presidency to Chuck Strickland. Amasa Bishop, last year's secretary, took the office of vice-president and, with his past experience, can be counted on to handle ably the work of chairman of the board of control. The offices of first representative and secretary went without opposition to Willis Bussard and Tway Andrews respectively. Entering the race late, Bob Bashor won the office of rally committee chairman. Other new officers are: Harry Moore, publicity chairman; Deane Morris, treasurer; Chuck McDougall, athletic manager; Bill Bair, yell leader; Ed Goldsmith and Holt Ashley, co-editors of the *California Tech*. In addition, the office of Y-president was on the studentbody ballot for the first time, the office going to Paul Thiene.

Inaugurated the first board meeting after elections, the newly elected officers planned the annual banquet for new and old officers and started the work of a busy term. Amasa Bishop began compiling the list of prospective recipients of the coveted honor key, and Willis Bussard started making plans for the A.S.B. formal.

Right; Interhouse Committee. Seated, left to right: Price, secretary; Albrecht, chairman; Paul, Bewley, Elmer, Hubay, Schureman, Nabas. Standing, left to right: Head, Proctor, Woods.

Composed of house presidents and vice-presidents, the Interhouse Committee, official representative of the student houses, met each week in lower Blacker. Business handled by this committee included freshman rotation and initiation, house social functions, the passing of varsity and frosh athletic ratings, and rulings concerning Discobolus competition.



Committees



An Oxy women's Glee Club concert and a PJC variety show were only two of the entertaining programs presented to the student body by the Rally Committee under the leadership of Stew Davis. Also on the list of activities were the hoisting of the Beaver victory flag and the staging of this year's rousing Pajamarino at Tournament Park and in the State theatre.



Above: Oxy Girls Glee Club in Friday assembly. Below: Andrews, Davis, chairman, Froehlich, and Reid plan the coming rally.

Elections and Publicity

Spending noon hour at the white canvas polls in the courts and then dashing down to lower Fleming to count the results, the election committee supervised A. S. B. voting. Prior to Ralph Willit's return to school late first term, Harrison Price acted as chairman of the committee.

Responsible for publicizing Caltech's studentbody activities, the Publicity Committee completed a successful year under Manager Roy Weller. With sports on the upswing there were many favorable newspaper articles. School teams appeared in several sports magazines, and pictures of dances and the Pajamarino were printed in various newspapers and the Collegiate Digest.



Election Committee. Top—left to right: Bair, Willits, chairman; Staley, Allen, Macartney, Weller, Powlesland, Steinle.

Publicity Committee. Bottom—left to right: Moore, Weller, chairman; Goldsmith, Allen, Bussard, Mead.



Top row: Albrecht, Andrews, Ashley, Austin, Bishop, Brockman, Bussard, Densmore, Fair. Second row: Frost, Gillette, Hicks, Landau, Lind, Macartney, Marshall, McClain, McDougall. Third row: MacRostie, Miles, Moore, Morris, Odell. Fourth row: Paul, Price, Proctor, Schureman, Shonerd. Bottom row: Smith, Strickland, Turner, Weller, Woods.



The Honor Key is the highest award the student body can give as recognition for service to the school. To the individual who finds time to hold a student body office, work on the paper, play in the band or orchestra, go out for a sport, and in any other way perform a service to the student body, to him is awarded the little key which signifies wide extra curricular activity.

This year a key was awarded to a freshman, George Austin. The only other person to win a key as a freshman was Wendell Miller, a graduate of '37.

Men gaining the key for the third year are Gillette, Densmore, Miles, and Marshall. Those who have earned the award for the second time are Albrecht, Fair, Macartney, McDougall, MacRostie, McClain, Proctor and Weller. All the other men are receiving their first key.

Honor Key

Beavers

To upperclassmen used to seeing men in white sleeveless sweaters in abundance about the campus, Beaver activity this year might have seemed very slight. The apparent shortage of the familiar sweater, however, was not due to lack of enterprise but more to the type of activity for which the sweaters were removed to keep them clean.

Sweaterless Beaver effort reflected those things that made the year memorable. The bonfire was a contribution to campus life. Posters urging the purchase of defense stamps at the bookstore, the collection of textbooks for the United Service Organization, and manifold efforts of aid to the school in obtaining potential freshmen lost because of the cancelling of open-house, tell a story of activity whose purpose lay beyond the campus.

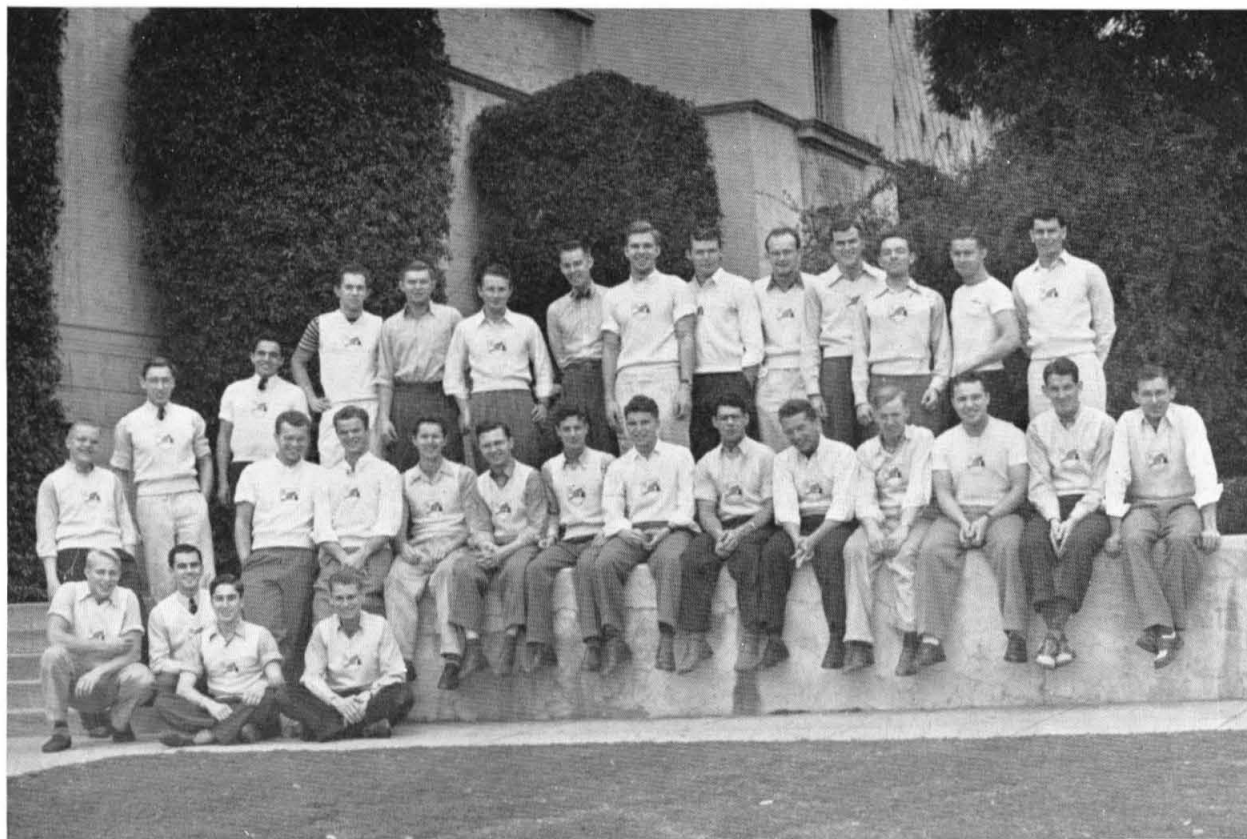
The phrase upon the Beaver parchment, "—for future service to the studentbody" was emphasized in the election of each man through the year. The studentbody of 1942-43 can count upon these newly elected men to carry on work in service of the institute and of their fellowclassmen.

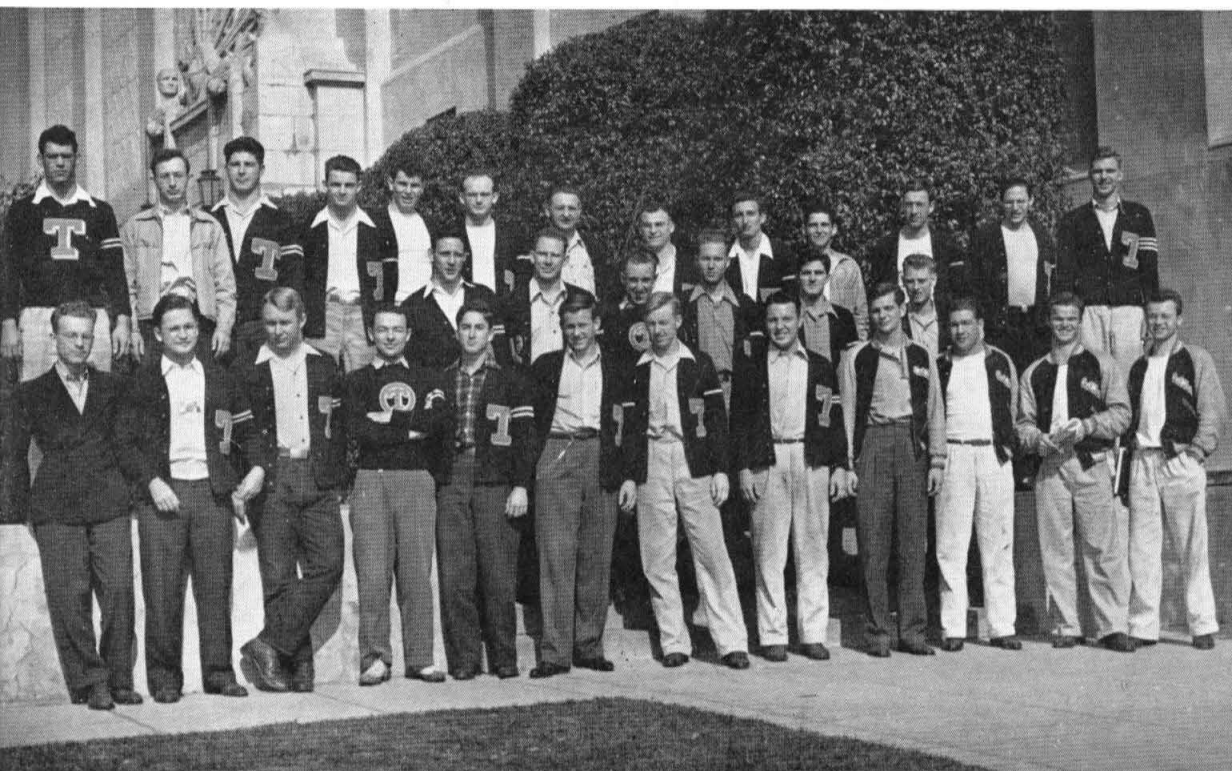
Officers of the year were John Rubel, president; Warren Proctor, vice president; and Everett Macartney, secretary.



Kneeling, lower left: Nelson, President Rubel, Schureman, Densmore. *Sitting:* Roesse, Gillette, Fleischer, Paul, Goldsmith, Bussard, McClain, MacRostie, Strickland, Macartney, Davis, Alford. *Standing:* Marshall, Woods, Bishop, Willits, Moore, Miles, Elmer, Lind, Howton, Albrecht, Andrews, Gold, Hicks, Proctor.

Above: A corner of the Varsity Club Dance.





Front row: Anspach, Price, Beckstead, Gold, Schureman, Madley, Strickland, Macartney, Callaway, Elliott, Gillette, Roese. *Middle row:* Weller, Seibel, Merrick, Grote, Rhyne, Densmore. *Back row:* McClain, Drake, Graner, Fair, Proctor, Albrecht, Giacomazzi, Blayney, Nahas, Allen, Woods, Potts, Lind.

This year the Varsity Club became better known about the campus by entering into social activities. A dance was sponsored by the club in Dabney Hall Lounge, reviving an old custom which had long been forgotten. Door prizes, refreshments, and an excellent orchestra combined to make it one of the best dances of the year.

The tradition of making the pledges carry fireplugs and direct traffic during the initiation weeks of the first and third terms was again followed. In addition the dimensions of the plugs were doubled for some of the more wayward initiates.

Initiation was followed by the usual picnic and athletic contests in which the pledges attempted to show their superiority over the old members.

This year's officers were: George Lind, president; Tom Elliott, vice president; and Bob Merrick, secretary-treasurer.

Varsity Club

Band

A large group of musicians in the freshman class swelled the ranks of the band this year to a new high of forty members. The organization made its debut at the Oxy game when, dressed in their new, white corduroy, pork-pie hats, and their usual orange engineer's shirts, they surprised the student body with a half time marching stunt. With a series of new fight songs and yells, the band participated at all rallies and games, ending with a festive trip to San Diego.

Capably directed by Audre Stong, the band played a concert in Pasadena's Gold Shell, at a Monday assembly, and finally at graduation. Manager for the year was John Brockman.



Band. Left—front row: Austin, Mann, Scheck. Second row: Dethlefsen, Henderson, Greenwood, Hipsh, Weidman, Odell, Warren, Hall, Brockman, president. Third row: Hale, Linnes, Curtis, Lovelace, Bennett, Kidder, Ammer, Dodge, Frey, Bloom. Fourth row: Spence, Foster.

Orchestra. Below — front row: Mary Florence Robertson, Stan Smith, Ayres, Hale, George Smith, Odell, Mann, Curtis, Austin, Lovelace. Standing: Brockman, director, Neidlinger.

The orchestra was active this year under complete student control. It was organized and directed by John Brockman, aided by Joe Mann as assistant manager and George Austin as librarian. Membership included Mary Florence Robertson, who offered her services as first chair violin. The highlight of the season was a Monday assembly given jointly with the Glee Club.



Orchestra



Front row: Margaretten, Jones, Briglio, Smith, president; Landau, Walker, Gnaedinger, Bradley, Rogers, Mill. *Middle row:* Mason, Bishop, Sutton, Lesser, Savit, Bergh, Schamberg, Reid, Naylor, Buchanan, Thiene, Klein. *Back row:* Burke, George Smith, Bunker, Kott, Schuyler, Mann, Stix, Austin, Hale, Beagle, Linnes, Davis, Hall, Frederick, Morrison, Johns, Barrow.

Musicale

The Sunday evening concerts sponsored by the five-year-old Caltech Musicale continued to grow in popularity with the student body. This enthusiasm for symphonic music caused the membership to reach nearly 100 men. A number of the concerts were arranged by student commentators. The very successful season was the product of the efforts of President Lawrence Smith, Business Chairman Earle Bunker, Record Chairman Jack Bowen, Program Chairman Harold Bradley, and George Austin, chairman of the newly formed DBNY Radio Committee.

Due to a severe lack of first tenors this year, the glee club was temporarily discontinued, but in its place arose spontaneously a quartet organized by Amasa Bishop. Consisting of four fellows who loved to sing, and directed by Mrs. Metz, the quartet appeared before the student body in an assembly and at several club meetings—and often during the year their close harmony was heard filtering from the shadows of the archways.

Quartet: Mattson, first tenor; Sherwin, second tenor; Spencer, baritone; Bishop, bass. *Accompanist:* George Hale.



Glee Club

Y Cabinet. Seated: Thiene, Ackerman, Y secretary, Hodges. Standing: Dean Morris, Bragg, Fred Morris, Buchanan, Shonerd, president.



Complementing to no small degree the religious, social and educational life on the campus, the Caltech YMCA has in the past year proved to be indispensable.

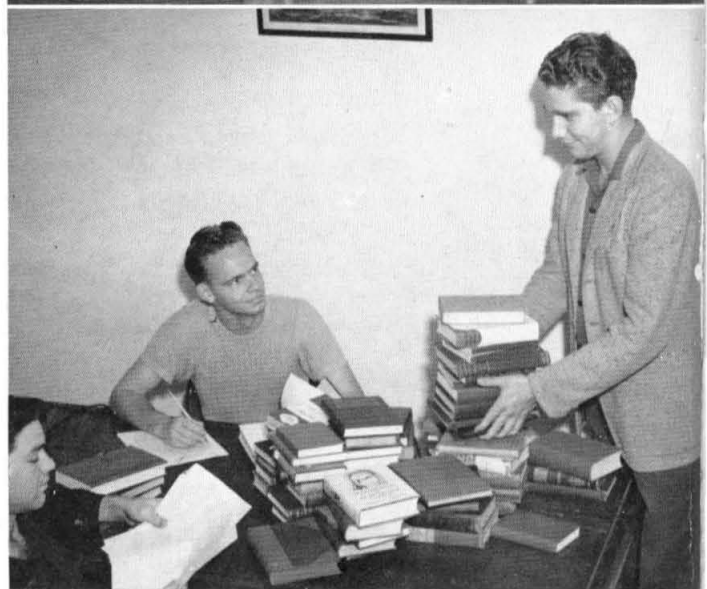
Vividly underlined on a long list of usual-unusual services were several of the year's highlights such as an extraordinarily successful Frosh Camp, informal religious bull sessions, Y-Oxy Exchange Dance and Y student forums featuring specialists in current and future events.

Red lettered on the social calendar were the social exchanges and conferences with other southland universities.

The Y's traditional services which have been performed this past year include the book exchange, the loan fund, personal counselling, and world news bulletin.

November ushered in a valuable addition to the talent of the organization in the energetic personality of Paul Ackerman, the new Y secretary.

Officers of the year were: David Shonerd, president; Al Grote, vice president; Bob Sherwin, secretary; Fred Morris, treasurer.



Top: Oxy exchange dance in Dabney Hall lounge. Middle: Paul Ackerman, Y secretary, in his office. Bottom: Checking the books collected for the U.S.O. Left: A corner of the reading room in the Y office.

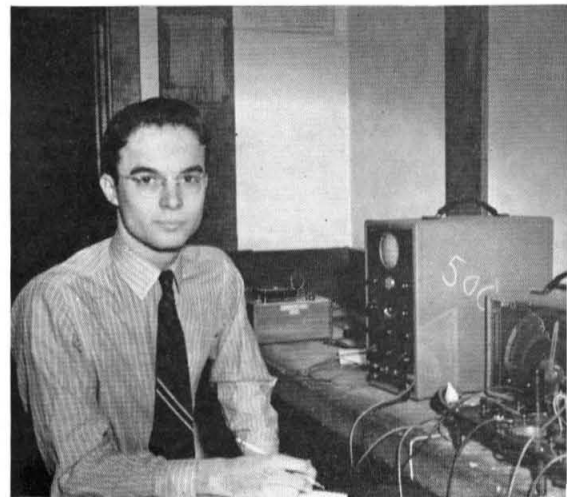
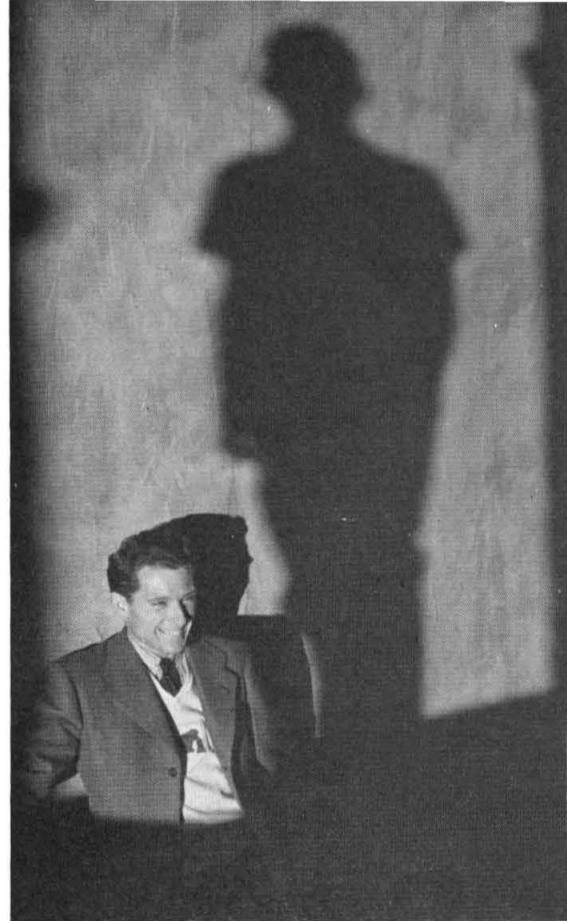
Y. M. C. A.

Little T

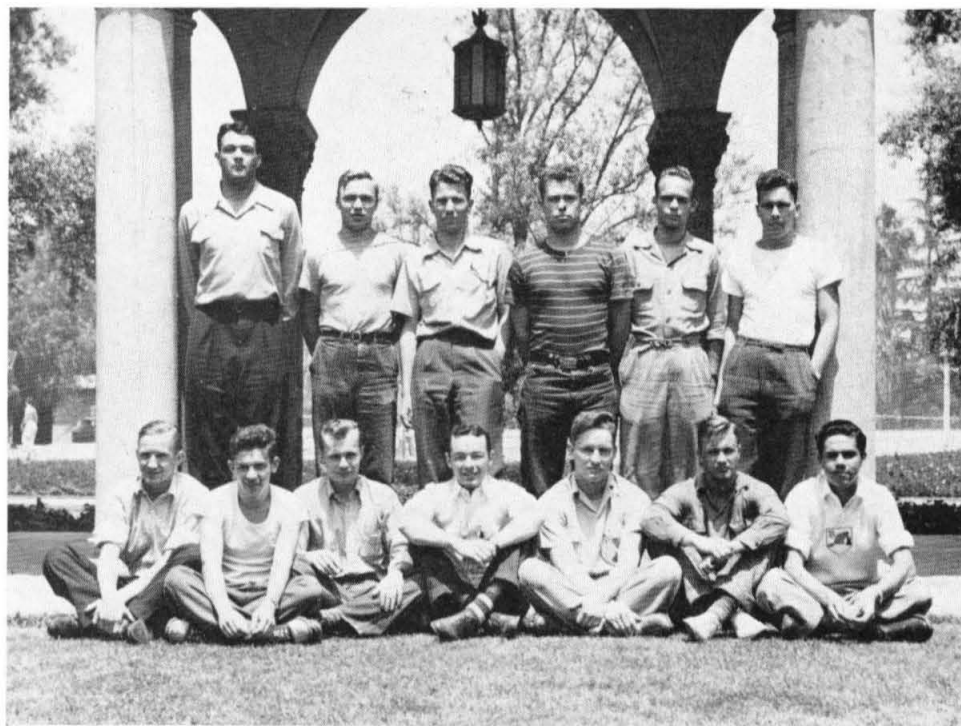
Intended as a concise, pocket-sized guide to campus organization, The Little T almost changed its destiny this year. Spreading its covers to unprecedented width the campus handbook enclosed twice the regular amount of information and increased its advertising content from the usual fifty pages to 140 pages, presenting the members of the student body with a 290-page colossus which they might carry in a specially designed pocket if they wished to be adequately guided thru campus organizations and activities and to the services of two hundred advertisers who ranged from industrialists in New England to the barber and pharmacist down the street.

This phenomenal Little T of 1941-42 owed its Amazonian nurture and frightening maturity to the initiative and industry of two seniors, David Hill and Wayne MacRostie, appointed as co-editors by the Board of Directors at the beginning of the third term of their junior year.

Spurning the regimen of saner handbooks, this year's Little T, dizzied by its opulence at the end of the summer, burst forth in three editions, a preview sent to the freshmen before the first term to familiarize them with the campus they were approaching, a completed edition for alumni showing campus development since their departure, and a standard edition for the faculty and members of the student body.



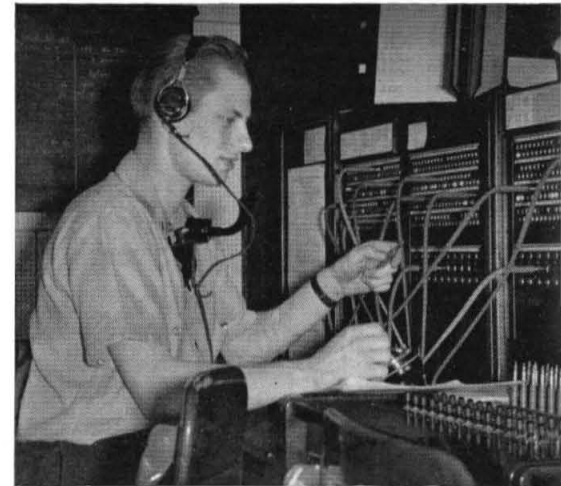
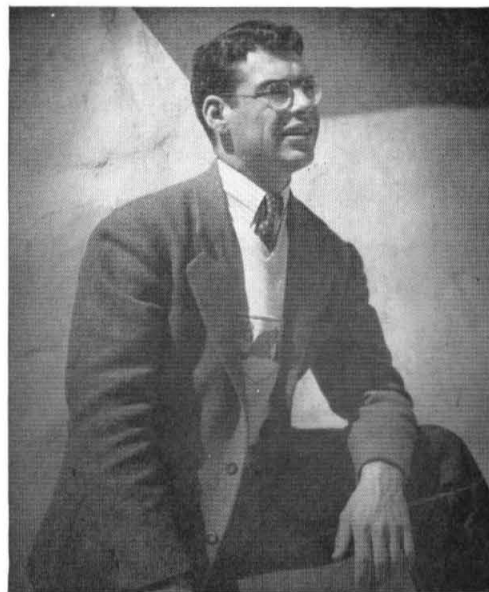
Little T editors: Wayne MacRostie, above; Dave Hill, below. *The revived Press Club*—Back row: Ashley, Johnson, Mitchell, Smith, Shonerd, Austin. Front: Odell, Alpert, Protzen, Gold, Frost, Farmer, Hunt.



With membership dwindled to two, Bob Densmore and Syd Gold, new members were pledged to Press Club for the first time in three years. Wearing eye-shades, long pencils, and red cardboard keys, the pledges went through as much of the initiation as Densmore and Gold could remember. The climax was the issue of a humor magazine as the last issue of the California Tech.

Press Club

Left: Caption editors Goldsmith and Odell in action. Below: John McClain, business manager. Right: The editor, Bob Densmore, on the switchboard.



Determined to produce an accurate and ample review of the year's progress at all costs, the editor and business manager of the 1942 Big T surmounted the unforeseen difficulties arising from the outbreak of war and delivered a yearbook giving more complete pictorial coverage than ever before.

Directed by Bob Densmore, who was also editor last year, the editorial department included the following men: Mel Merritt, faculty editor; LeRoy Weller, editor of the ASB section; Deane Morris, organizations editor; Fred Tenney, house editor; Chuck McDougall, sports editor. The senior section was unique in that nearly one man in six shared in the writing, allowing a more intimate account of the graduation class.

The financial figures were juggled by John F. McClain, business manager. To him goes credit for selling sufficient advertising despite rising costs and a slump in the demand for advertising.

The Big T Staff

The body of the book was built around creative ideas contributed by the talented photographer Midori, whose pictures appear for the third consecutive year. Groups and informal shots were snapped by camera-minded students. By far the hardest working student photographer was Carter Hunt, who is responsible for nearly half the pictures in the book. Others included Leon Green, Bob Gustavson, Tommy Carter, Stew Martin, Jim Smith, Bob Burke, Eldon Geib, and Harrison Price. H. Lee Hansen and Dave Meiklejohn, sports photographers, furnished action pictures in the track section.

The routine jobs of proof reading were skillfully accomplished by George Shor, Mel Merritt, Ken Powlesland, and Holt Ashley. Quick copy delivery was insured by Win Hughes and Bill Lockwood, copy boys.

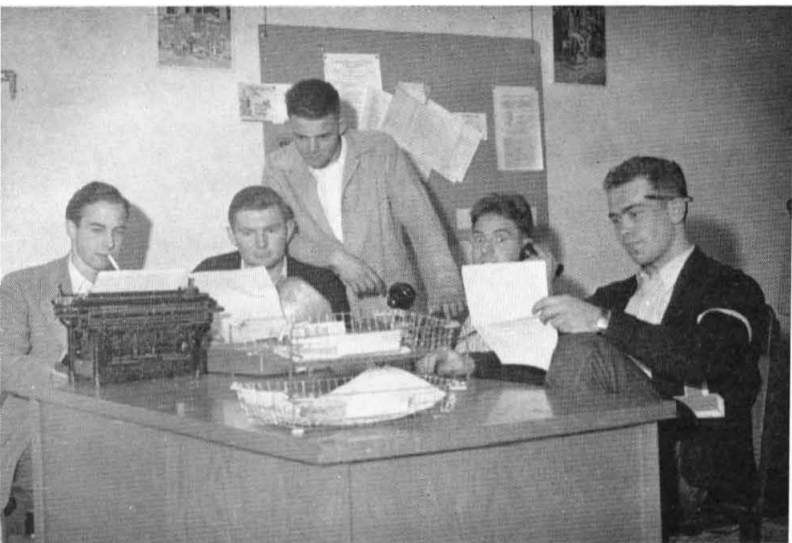
The editor's right hand man was assistant editor "Jungle" Jim Smith. He planned assignments, took pictures, made appointments, advised on decisions, and ran numerous errands.

To Maxine Trueblood of Los Angeles Engraving goes credit for prompt delivery of cuts. Ray Brennan of the same concern contributed the eye-catching cover design. The editor is indebted to Roy O. Day and the printing staff of Progress-Bulletin for the speedy return of accurate proofs and exceptionally high quality printing. Finally, Sam Babcock deserves recognition for his efficient handling of the binding operations.



Editorial staff. Above left—seated: McDougall, sports editor; Densmore, editor; Weller, ASB section editor; Smith, assistant editor. Standing: Morris, organizations editor; Merritt, faculty editor; Tenney, house editor. Business staff. Above right: McClain, business manager; Fair, Graner, Bair, Gold, Albrecht.

Proof readers. Below left—seated: Shor, Ashley, Merritt, Powlesland. Standing: Hughes, copy boy. Photographic staff. Below right: Lockwood, Martin, Hunt, Green, Lesmez.



Sports staff. Upper left: Spaulding, Moore, Fair, McDougall, sports editor. Smith, assistant sports editor. Business staff. Upper right—seated: Price, Frost, business manager, Weller. Standing: Austin, Morris, Norsworthy, Harland, Schek, Shonerd. Below: Editor Turner discusses staff appointments with his assistant, Ed Goldsmith.

On taking office last year Editor Bill Turner was faced with the age old problem of organizing a staff. In addition, he had ambitious plans for changing the paper's entire administrative machinery.

His original staff consisted of Ed Goldsmith, news editor; Ralph Willits, sports editor; Bonner Richardson, feature editor. This year Goldsmith became managing and assistant editor; Holt Ashley was made news editor; and Charles McDougall replaced Willits who was late in returning to school because of illness. Garman Harbottle, Jim Tuedio, and Fred Tenney formed a succession of feature editors as Richardson left school.

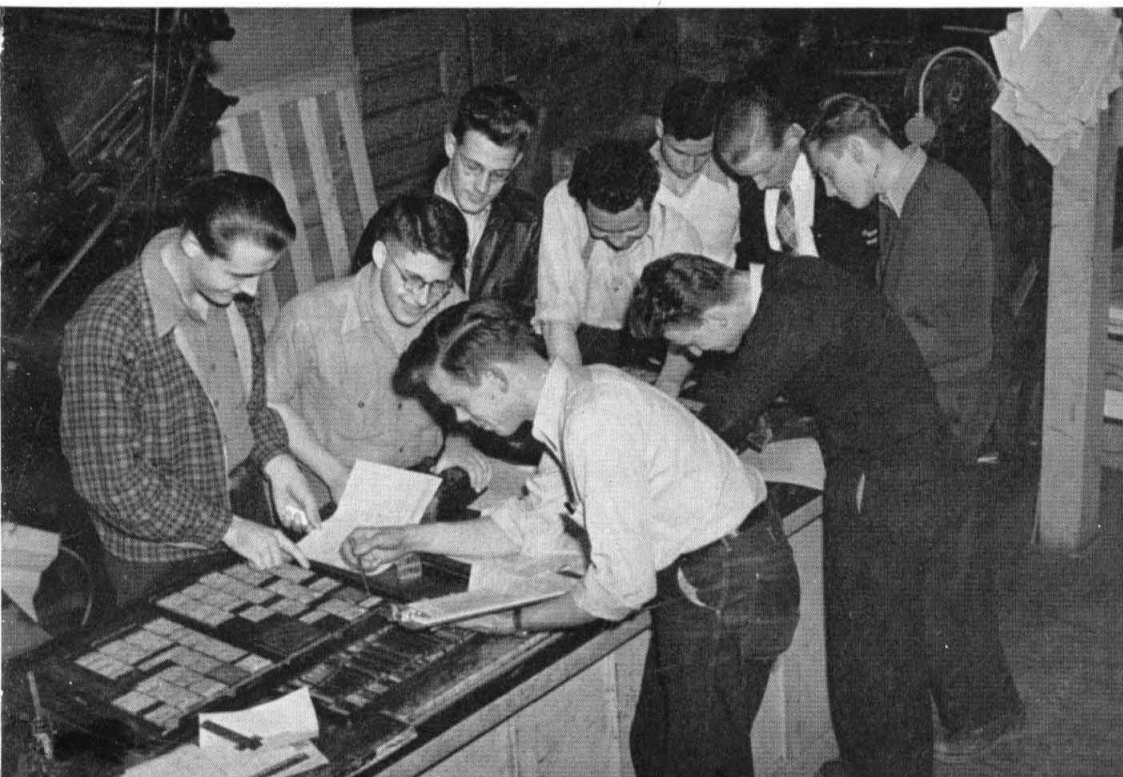
When Bill finally got his system clicking, it proved to be a smoothly functioning machine both capable and efficient. Reporters actually turned in stories on time. Material flowed from the editors to the copy desk to the printshop without interruption. At the printshop Don Granicher and Jay Borden put the issues to bed. Joe Rosener was especially helpful in maintaining the flow of material.

California Tech

Once this setup showed itself to be satisfactory, Bill turned to more detailed work. Unfortunately a heavily increased scholastic burden made it impossible for him to carry all these plans out. The school owes a debt to Bill Turner for wiping away all the confusion of the past and laying firm foundations for a California Tech of which we can all be proud.

The paper's new leaders, co-editors Ed Goldsmith and Holt Ashley, hope to carry on and enlarge the fine work of their predecessor. Their main problem will be attempting to improve the Tech's financial status which was sent into a nose dive when Pearl Harbor started a rush of national advertising cancellations. However, Business Manager Bob Frost believes this situation is clearing up.

During the past year Professor MacMinn has continued to use his store of journalistic experience as a source of helpful criticism.



Copy crew and printshop staff. Above—clockwise: Bunker, Granicher, Sinclair, Al Cilley, the printer, Rypinski, Odell, Morrison, Roll, Borden.

News staff. Below—front: Shor, North, Grote, Jones, Johnson, Rosener, Hodder, Margaretten, Landau. Standing: Miles, Tenney, Mitchell, Morgan, Rempel. Middle row: Ashley, Beagle, Trimble, Gilman, Buchanan.

Debaters

Debate at Caltech was marked this year by more competition than in the past. Members of the squad debated in tournaments at Pomona Junior College, Pepperdine College, Los Angeles City College, College of Pacific at Stockton, and the National Pi Kappa Delta Convention at Minneapolis.

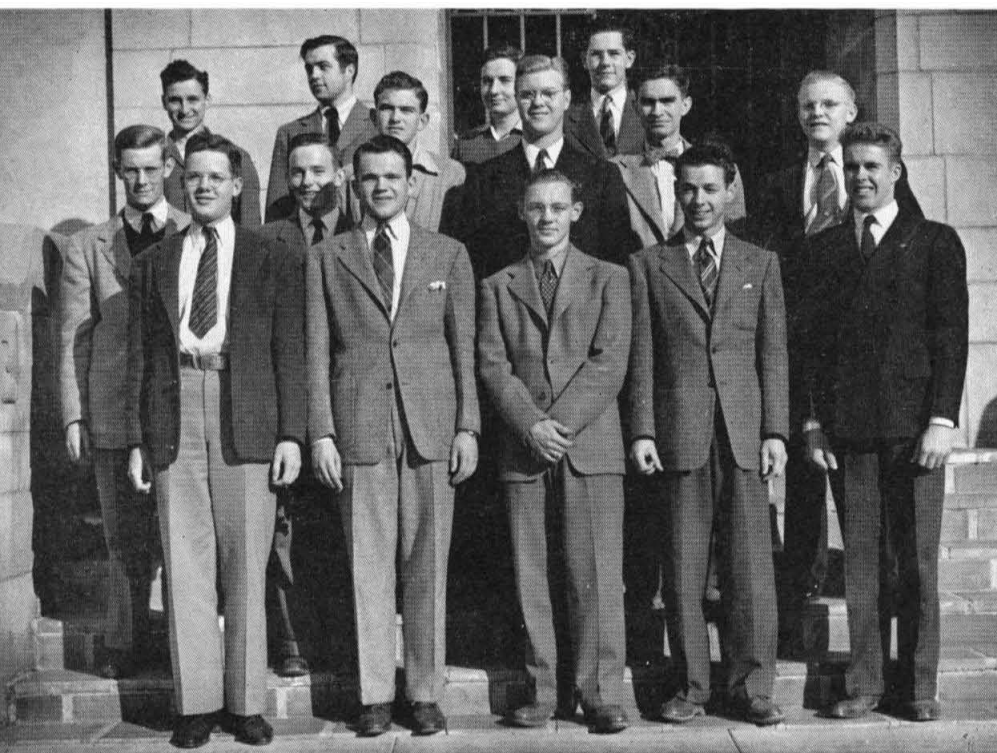
Two questions were raised. The first proposition, used during the fall term, dealt with federal regulation of labor unions. During the second and third terms, the plausibility of a federation of democracies based on the Atlantic Charter was the subject of discussion.

Former Tech debater Clifford Truesdell was coach. General supervision was also given by Dean Ray E. Untereiner, supervisor of forensic activities.

For the first time in many years, Caltech debaters won first place in a debate tournament. The team of Bill Olenbush and Boyd Marshall defeated competitors from 25 Pacific Coast colleges to win a cup for their alma mater at the Pomona tournament. These men then made a trip to the National Pi Kappa Delta Convention at Minneapolis. There they tied for second and became the first team in the history of the school to win a cup in varsity competition.



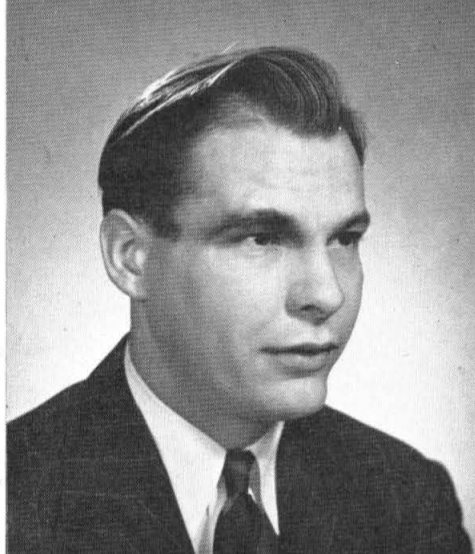
Varsity squad. Above: Tenney, Buettell, Young, Lassen, Olenbush, Marshall, Trilling, Savit.



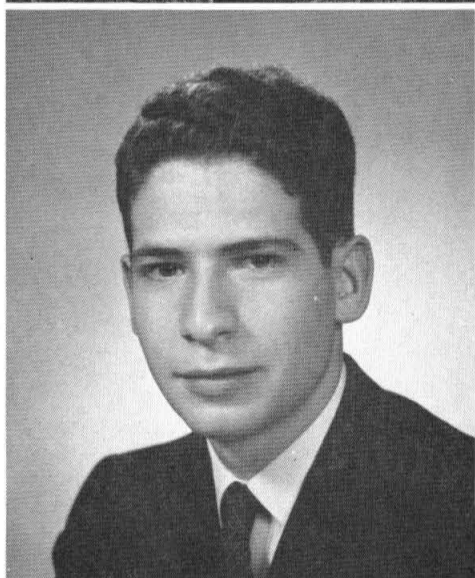
Frosh squad. Below—front row: Smith, Wheeler, Cotton, Howard, Dethlefsen. Second row: Schuyler, Atchison, Wanlass, Hale, Anderson, Marshall, debating instructor. Third row: Rypinski, Brooks, Sadler, Eich.



Glenn Bracken, chapter corresponding secretary. A junior with three years of debating. Accepts the traffic tickets on the group's forensic trips.



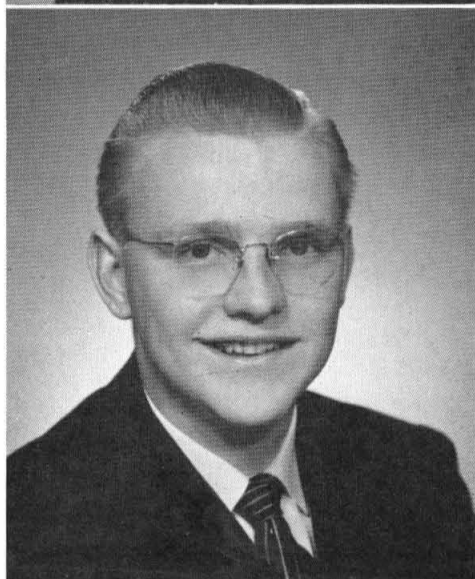
Dwight Buettell, also a junior with three years experience. Renowned for impromptu speaking and debating with the fairer sex.



Allan Grossberg, chapter treasurer this year and debate manager last year. A senior, he graduates with three years of competition.



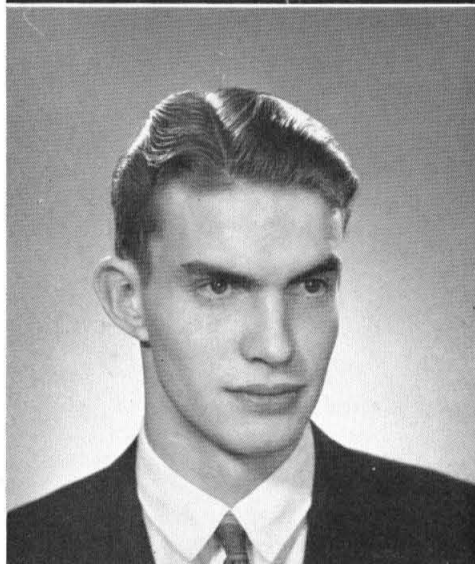
David Hill, the H. V. Kaltborn of the chapter. After two years of speech work he is recognized for impromptu speaking and winning poker games at hotel stops.



Boyd Marshall, chapter president. Went with Olenbush to Minneapolis. Consistently loses at poker in tournament hotel rooms.



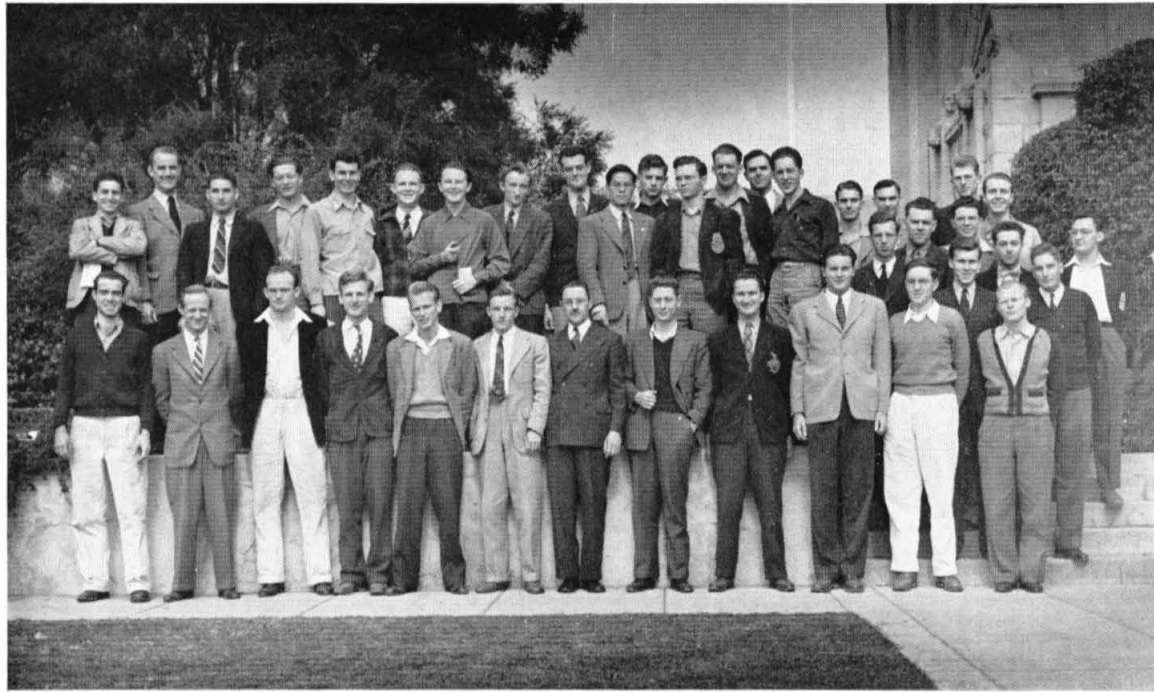
William Olenbush, vice president of the chapter and debate squad manager, with Boyd Marshall won Southern California Invitational Meet at Pomona and placed second at Minneapolis.



James Young, junior with three years of debating. Has competed in numerous speaking tourneys.

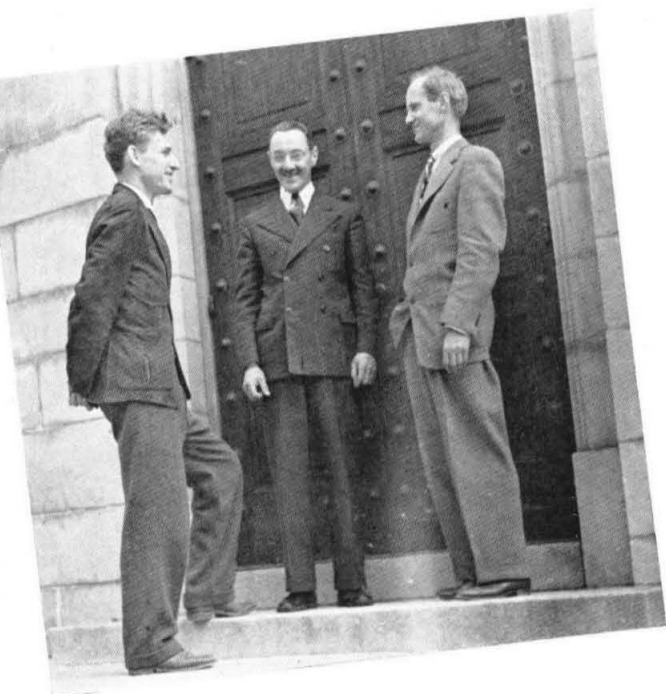
Although the war emergency prevented sponsoring the customary annual Greek play, Pi Kappa Delta's speech and forensic activities were in no way curtailed. Again this year, two men were sent to the National Pi Kappa Delta Convention at Minneapolis. Officers were: Boyd Marshall, president; William Olenbush, vice president; Allan Grossberg, treasurer; Glenn Bracken, corresponding secretary.

P. K. D.



Front row: Thompson, Pickering, Albrecht, Brown, Hoagland, Strader, Maxstadt, Kumm, Jerrens, Smith, Kafitz, Mitchel, Almassy, Veronda. *Back row:* Sukhia, Davis, Urbach, Schauer, Proctor, Howenstein, Miles, Thienc, Snyder, Hwang, Lyle, Paul, Ashbrook, Dazey, Turner, Young, Veenhuyzen, Sternberg, Atkins, Hodder, Widenmann, Bunker, Frey, Cohn.

Below: Student Chairman Charles Brown conversing with the faculty advisers, Maxstadt and Pickering, in front of Hi-Volts Lab.



Although the outbreak of war has limited the number of field trips, the local student branch of the American Institute of Electrical Engineers has had a very active year. Outstanding were an interesting series of movies and talks presented by manufacturers and utility companies who could spare time and men.

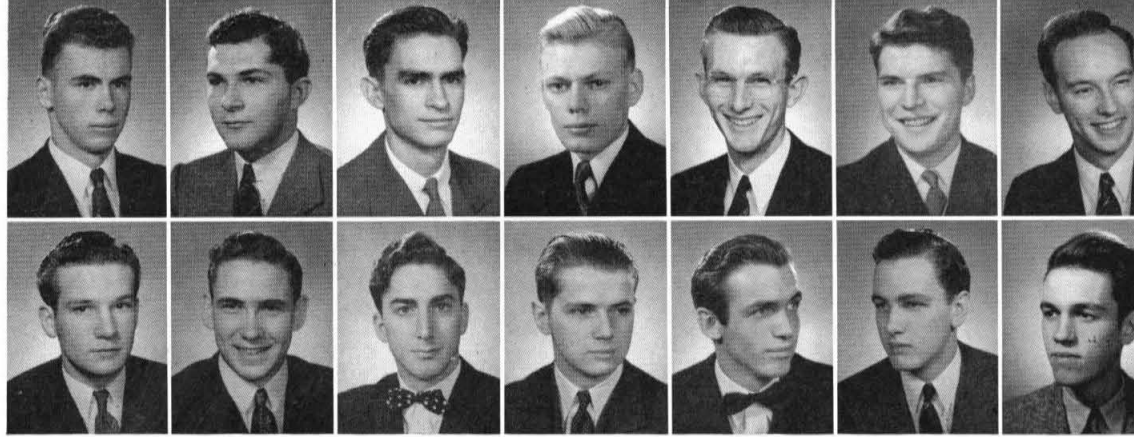
For example, the Southern California Edison Company furnished a film on high voltage transmission and line maintenance. Two men from Westinghouse gave talks on industry and the war. In addition, a trip was made to the Hollywood Recording Studios.

Perhaps the most important event of the year was the joint meeting of the Los Angeles section, the University of Southern California branch, and the Caltech branch on the Institute campus on April 14. After dinner at the Athenaeum and presentation of student papers, the group inspected High Volts and the electronics laboratories.

Branch membership included every senior electrical and most of the junior electricals, plus many applied and pure physicists of both classes. The officers for the year were Charles Brown, chairman; Maynard Strader, vice chairman; Clifford Hoagland, secretary-treasurer.

A. I. E. E.

Drama Club



Above: Adams, Amster, Anderson, Bergh, Bowen, Bussard, French. Below: Lester, Riddell, Schureman, Sherwin, Smith, Wade, Tenney.

The year's activities of the Drama Club have been inspiring but meager—limited largely by the war. The only presentation, a one act play produced entirely by student effort, was given before a Friday assembly first term. This effort required a lot of work, and the results were promising. Plans were laid for two more, but war broke at the time of casting.

Since that time the faculty has considered dramatics at Tech a thing of the past. There is not enough time or energy among the students to shoulder the burden of play production. When dramatics at Tech will again flourish is mere conjecture. The officers of the club were Fred Tenney and Bob Sherwin.

The Chem Club, formal organization of Tech chemists and chemical engineers, again sponsored field trips and talks from men in industry. Visits were made to such places as an analytical laboratory, a cement plant, The American Potash and Chemical Company's plant at Trona, California, and the water softening and filtration plant of The Metropolitan Water District of Southern California. The latter trip was made available through the courtesy of Professor Franklin Thomas of the Civil Engineering Department.

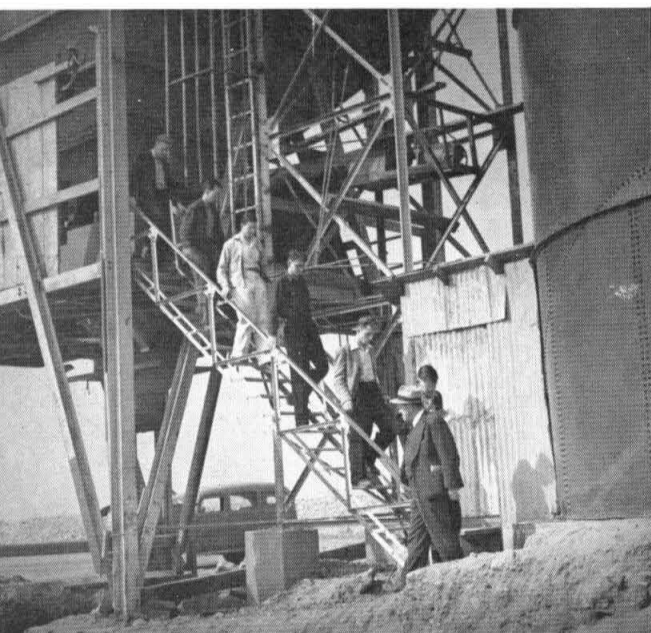
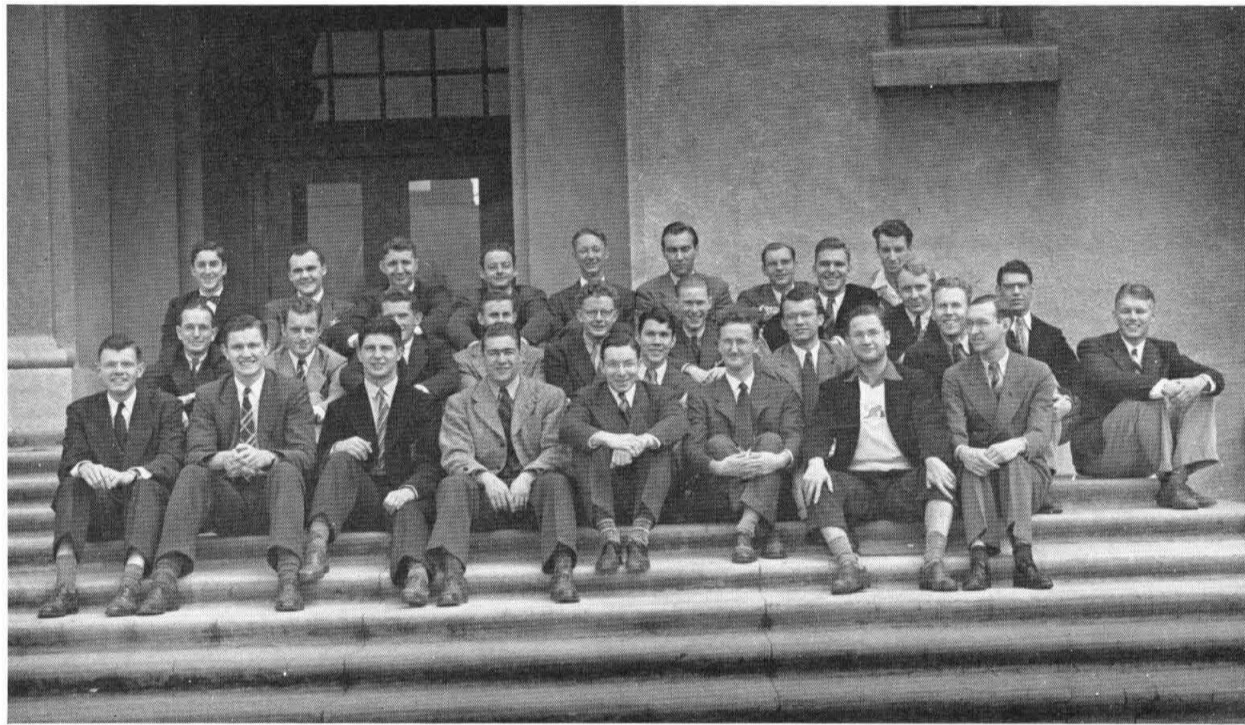
Officers for the year were: Allan Grossberg, president; Frank Fleck and Elden Geib, vice presidents; Alden Ayers, treasurer; Harold Bradley, secretary. Dr. J. N. Wilson was faculty sponsor.



Hunt, Brockman, Arnold Grossberg, Van Ness, Howton, Granicher, Brown, Seegman, Geib, Dunn, Scribner, McGee, Mader, Merrick, Douglas, Fleck, Garner, Bradley, Baird, Cunningham, Allan Grossberg, Ayers, Hall.

Chem Club

Front row: Jephcott, Dewdney, Graner, Elliott, President Lutz, Curtis, Price, Brece. Center row: John Allan, Skinner, MacRostie, Buchanan, Johnson, Carter, Mathis, Roese, Beckstead, Grote, McClain, Gilman. Top row: Schureman, Van Orden, Larson, Hatcher, Franzini, Gayer, Atkinson, Lind, Andrews.



Inspecting the Santa Fe Dam.

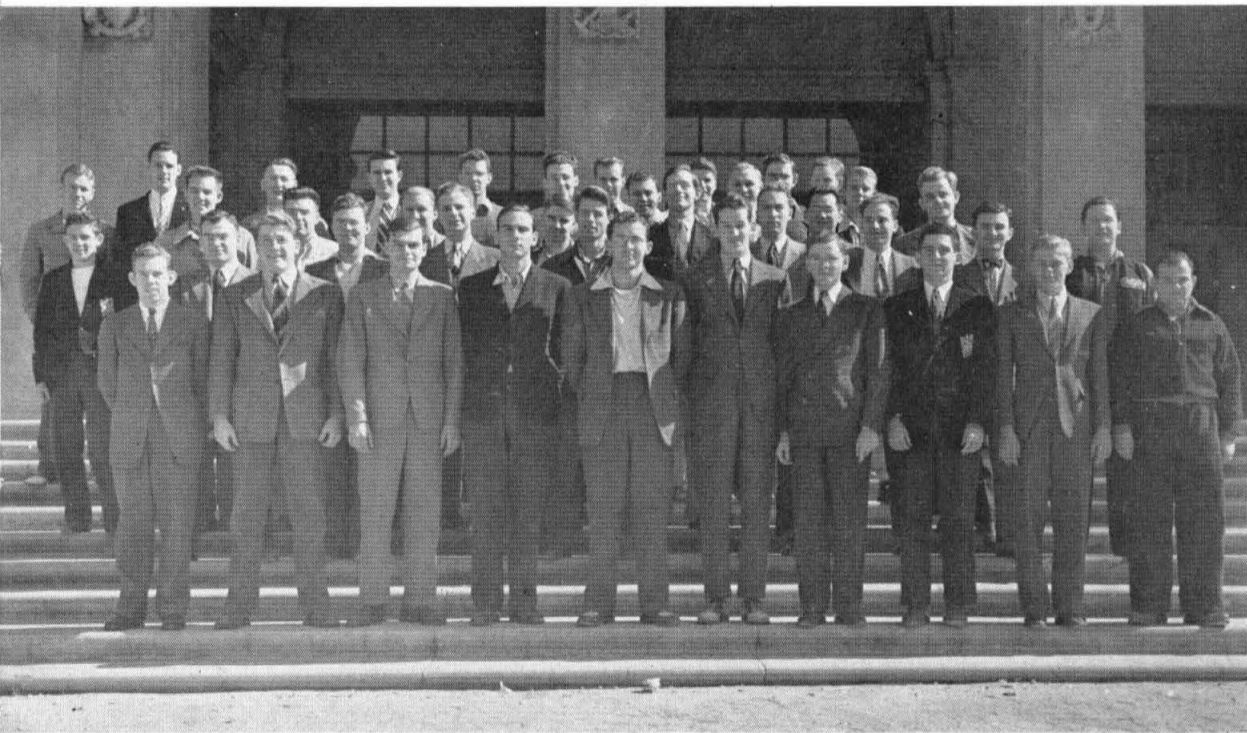
Supported by the largest and most enthusiastic membership in a number of years, the Caltech chapter of the American Society of Civil Engineers successfully fulfilled its purpose of acquainting the civil engineering students with modern professional practice.

Efforts to maintain a close association with the Los Angeles Section of the Am. Soc. C. E. reached a new high under Mr. Macy Jones, contact member, and Professor Thomas, faculty adviser. These included an informal buffet supper at the home of Maj. Gen. Lansing H. Beach and the annual joint meeting on the local campus with the chapter acting as host.

A varied program of field trips and lectures was conducted by the group with an eye to the importance of engineers in the present national emergency. Among others were interesting trips to the Los Angeles Union Station and the Santa Fe Dam.

A. S. C. E.

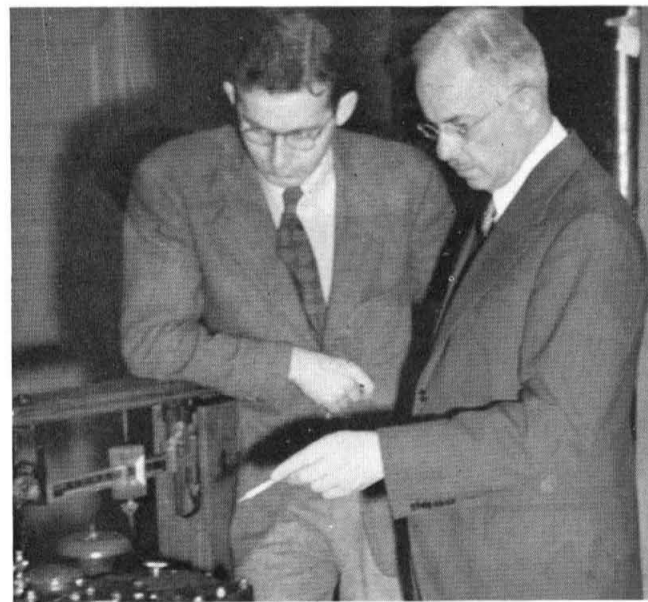
Front row: Hoagland, Lassen, Sabersky, Lawrence Smith, Alford, Davis, Kennedy, Allan, Bergh, Landau. Second row: Blayney, Dall, Sutton, Pichel, Piatt, Wood, Bauer, Price. Third row: Albert, Elmer, Bennett, Martens, Weeks, Bacon, Ban, Francis. Fourth row: Bragg, Weller, Giacomazzi, Steele, Lingle, Lesser, Protzen, Bashor, Bussard, Johnson, Smallberg, Crater, McKibben. Lower right: Jack Alford and Prof. Daugherty in the mechanical lab.



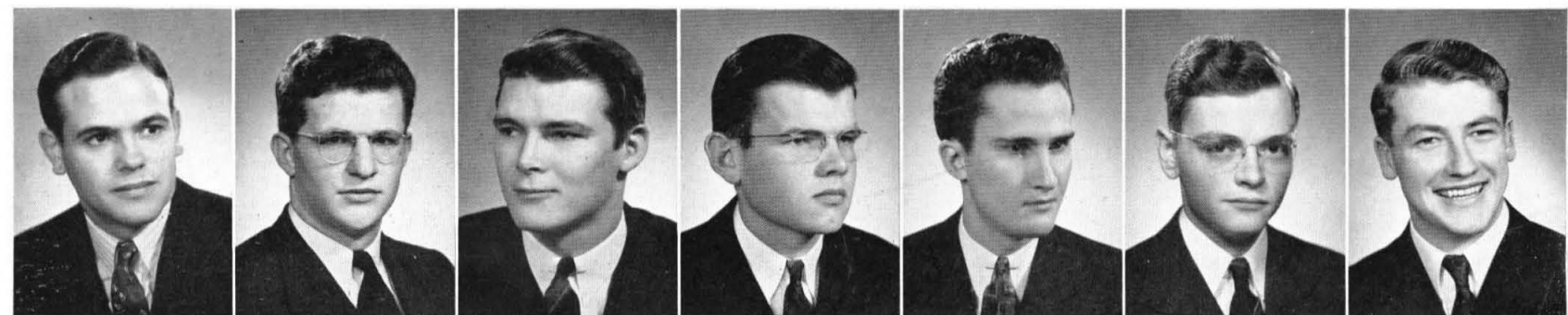
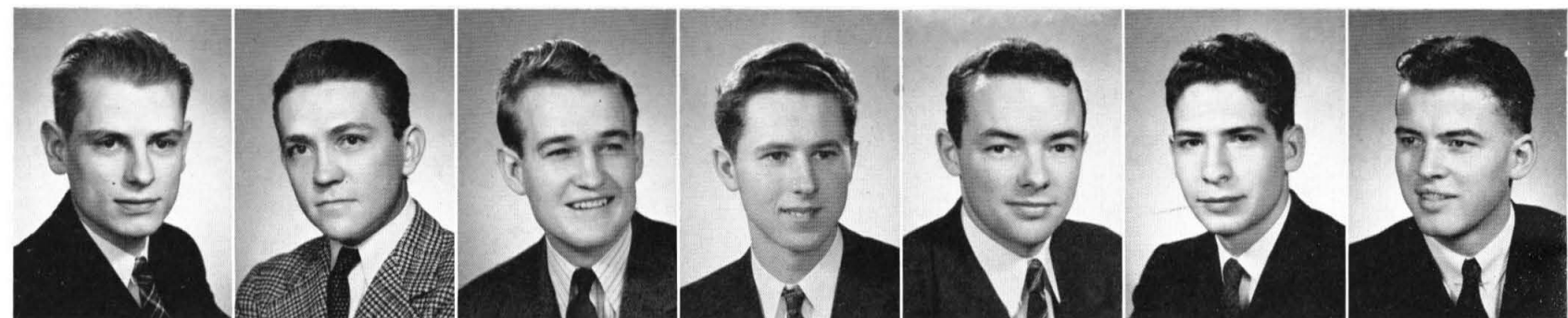
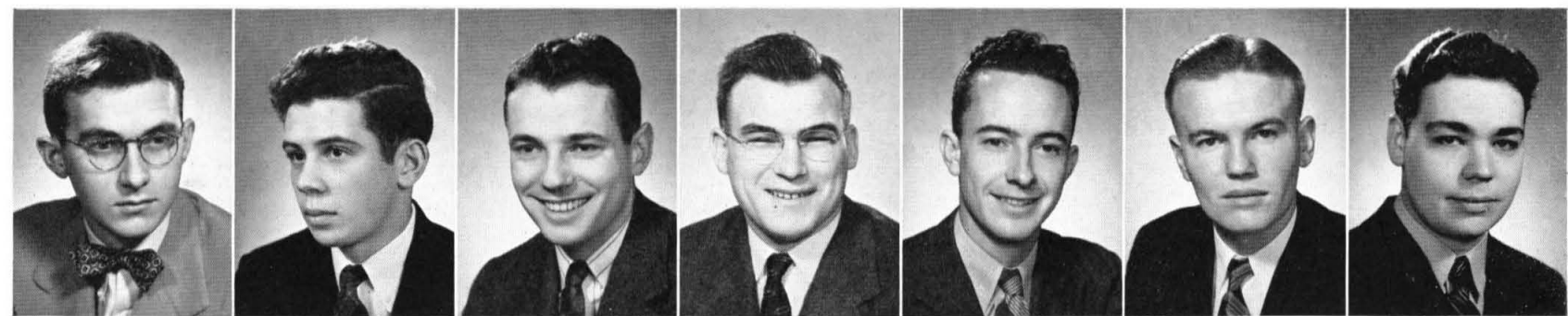
Representing the largest professional group on the campus, the student branch of the American Society of Mechanical Engineers provided opportunities to become acquainted with engineers and their practice.

The series of field trips began at Paramount Pictures, where an insight into some of the engineering problems of the industry was gained during a general survey of the studio itself. Following this was a trip to Kinner Motors, builders of aircraft engines. Next was a visit to the Ethyl Corporation. During the latter part of the year, field trips were somewhat limited by the war situation. Seminars were held on tests conducted by members. The annual spring convention of western student branches at Berkeley discovered Gordon Woods winning his third consecutive prize and Lawrence Smith placing second in the oral contest.

The Student branch was again under the guidance of Professor Daugherty as faculty chairman. The two groups of student officers, each serving half a year, were Jack Alford and Lawrence Smith, student chairmen; Stewart Davis and Rolf Sabersky, vice chairmen; Bill Kennedy and Robert Bragg, secretaries; Paul Allen and Bill Giacomazzi, treasurers.



A. S. M. E.



Highest undergraduate honor on the Caltech campus has long been membership in Tau Beta Pi, national honorary engineering association. In pursuance of its constitutional intention "to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character," the California Beta chapter annually selects from the scholastic upper fifth of the senior class and the upper eighth of the junior class those men whose records show broad interests and diversified activities.

Tau Beta Pi

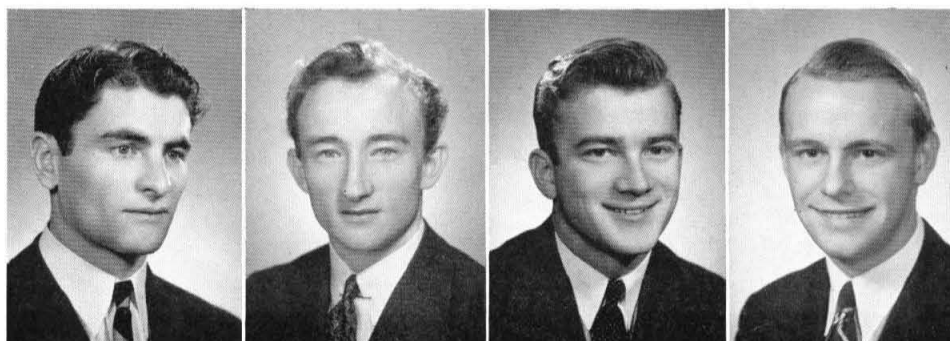
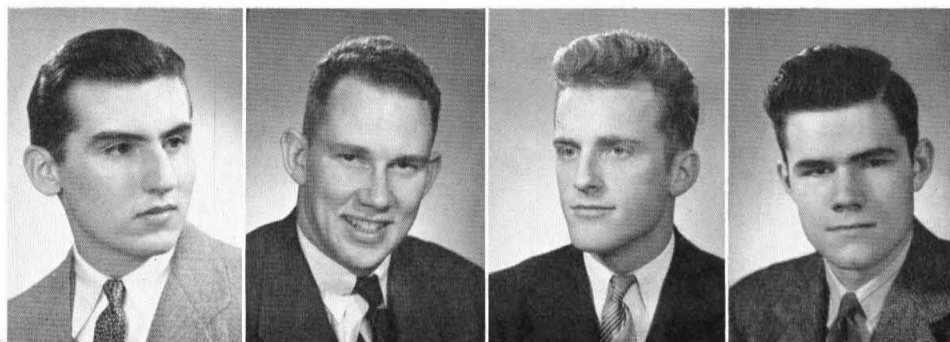
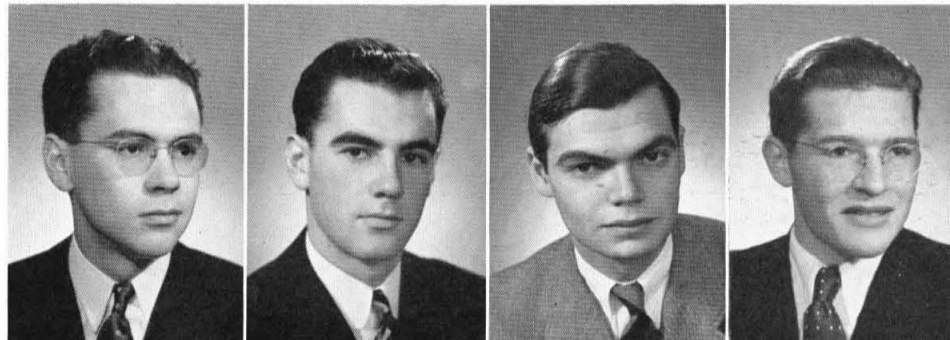
Fall prospective pledges were entertained by the chapter at a beach party, which had as its outcome the election of nineteen seniors and three juniors. After the pledges had secured the autographs of all campus members and had polished bronze replicas of the Bent of Tau Beta Pi, their initiation was completed with a banquet at the Athenaeum. Speakers for the evening were Dr. Clark Millikan and Col. Chas. T. Leeds, who were initiated as honorary members that evening.

Second term saw another election, which also culminated in a banquet at the Athenaeum, and third term was marked by the annual Tau Beta Pi Formal, held in Dabney Lounge.

Officers were: John Miles, president; Bob Densmore, vice president; Jack Alford, corresponding secretary; Dave Howton, recording secretary; Allan Grossberg, treasurer, and Charles Seibel, cataloguer.

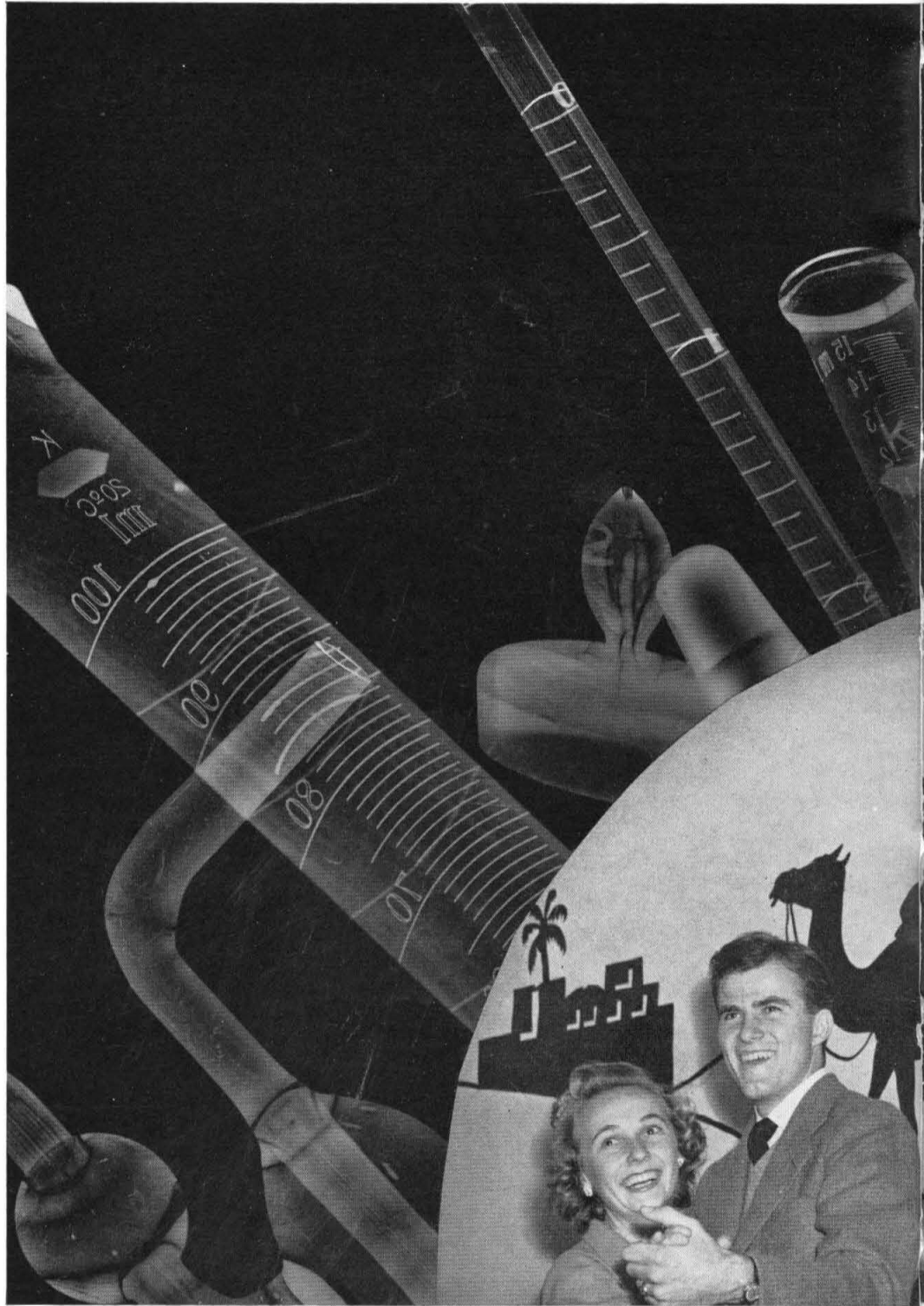
Opposite page—top row: Alford, Alpert, Bartlett, Blayney, Bowen, Bragg, Brown. *Second row:* Densmore, Douglas, Felberg, Fleischer, Gold, Grossberg, Robert N. Hall. *Third row:* Warren Hall, Holtzman, Howton, Jephcott, Jerrens, Kennedy, Lassen. *Fourth row:* Latter, Lawrence, MacKenzie, MacRostie, Madley, Marshall, Merritt.

Right—top: Merryfield, Miles, Mitchel, Morgan. *Second row:* Morris, Potts, Proctor, Rhyne. *Third row:* Rogers, Rubel, Sabersky, Schauer. *Fourth row:* Schneider, Seibel, Skinner, Staley. *Fifth row:* Sutton, Thiene, Webster, Wilcox.



M E N O F

H O U



S E S



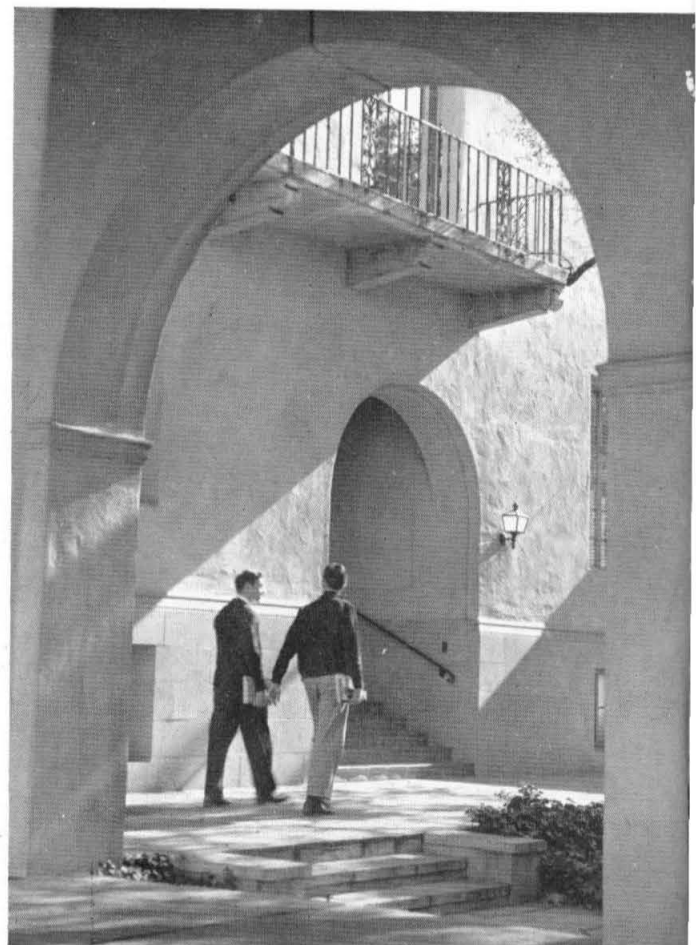
Campus Architecture

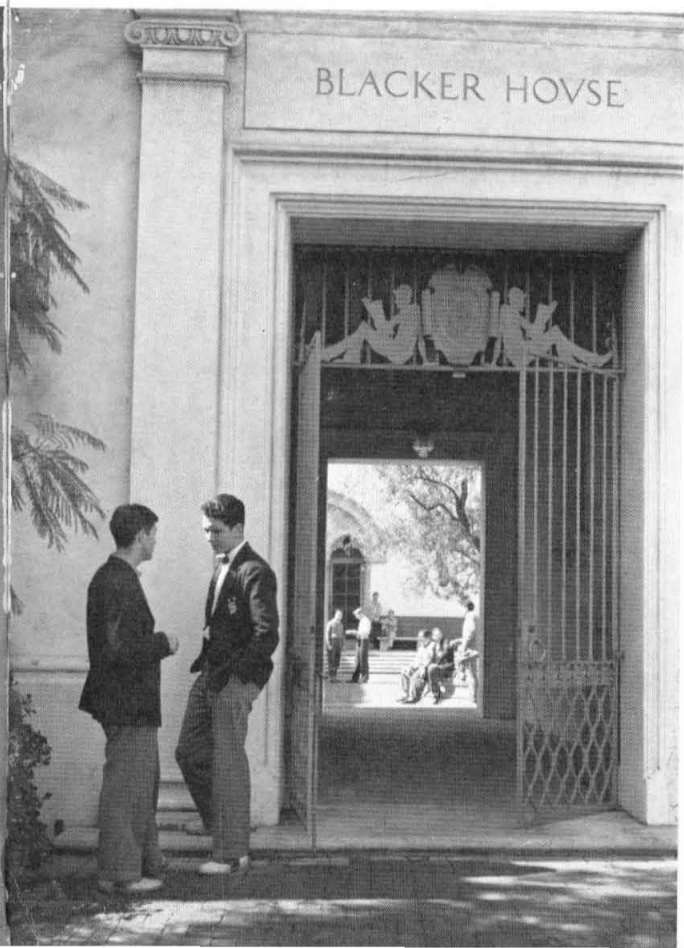


Running half the length of the Institute grounds from the Athenaeum, past the student houses, to Throop Hall, the olive walk is the most trodden pathway on the campus. Students hurrying to and from classes and members of the faculty strolling to lunch make it the nerve center of activity.



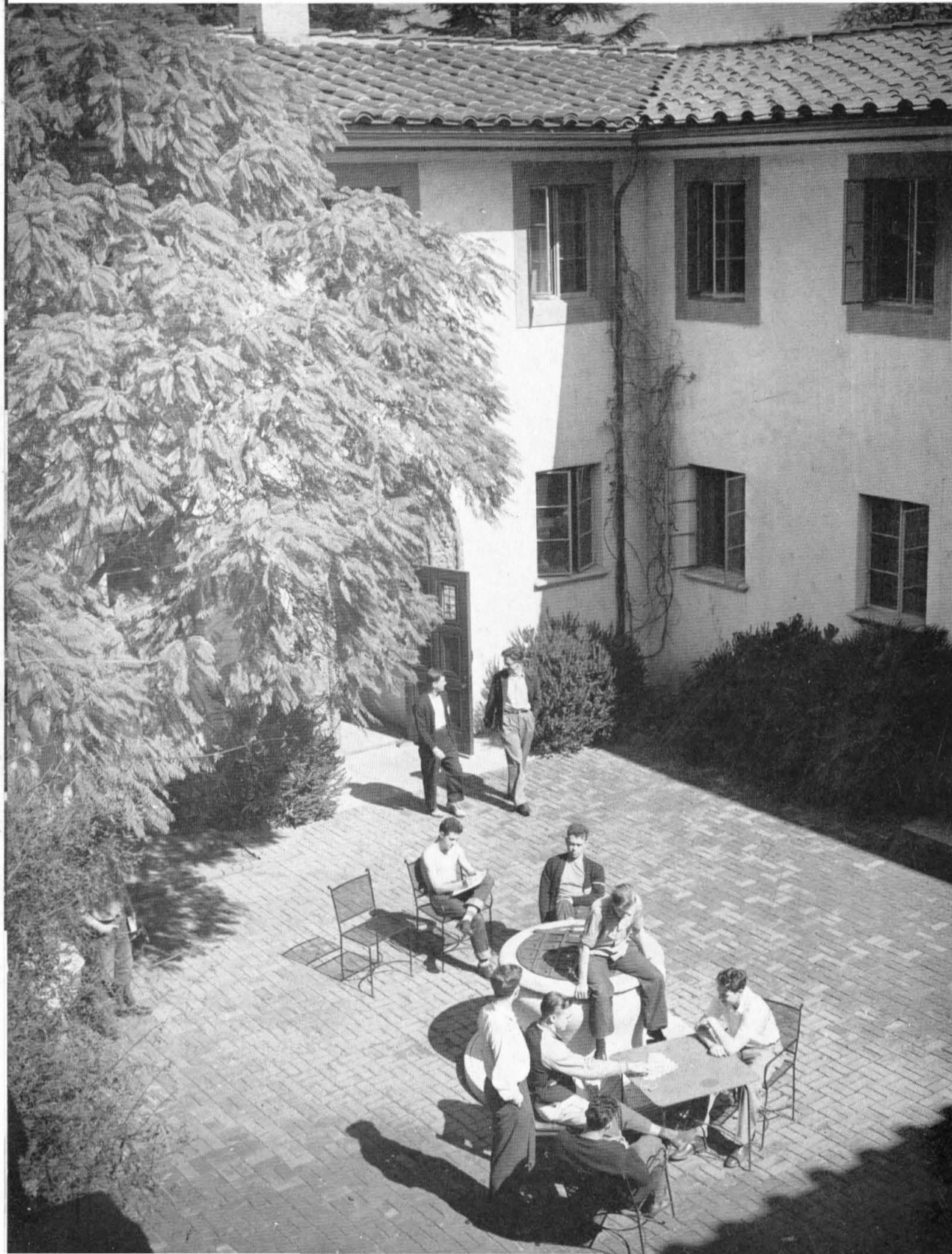
Off to assembly. There in Culbertson, students again heard Dr. Millikan's welcome to freshmen, Dr. Soares' theological discussions, and Prof. Sterling's crisp analysis of the international situation. In addition there were films furnished by the Army, Navy, and industrial companies, besides many guest speakers and musicians. Rallies were held here on Fridays.





With the coming of spring and warm weather, students spend as much time outside as possible. There is always someone lounging on the grass taking a sun bath, typing, reading, or working problems.

In the lull before and after meals, there is activity in the court of every house. It is then that the house members get together, over a game of solitaire or around a newspaper, and plan their sport and social recreations.

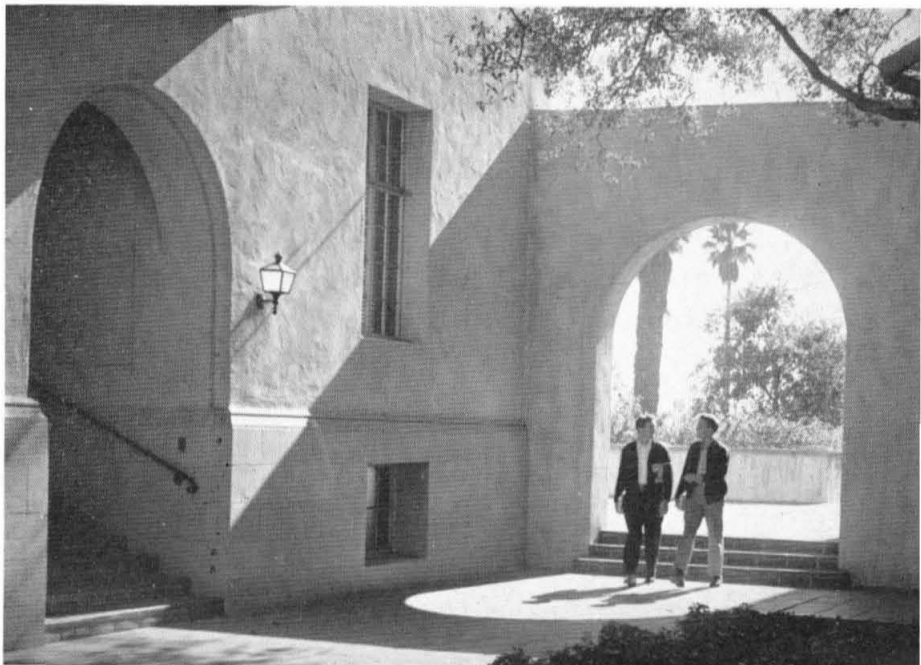


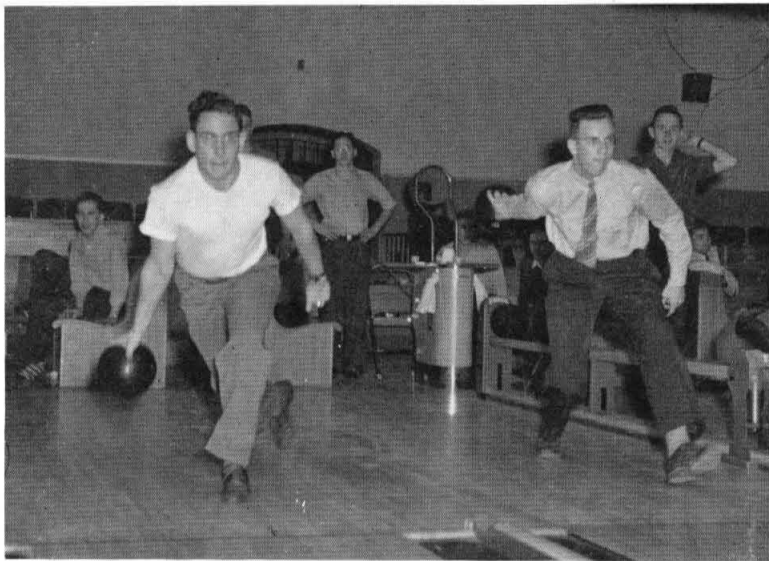
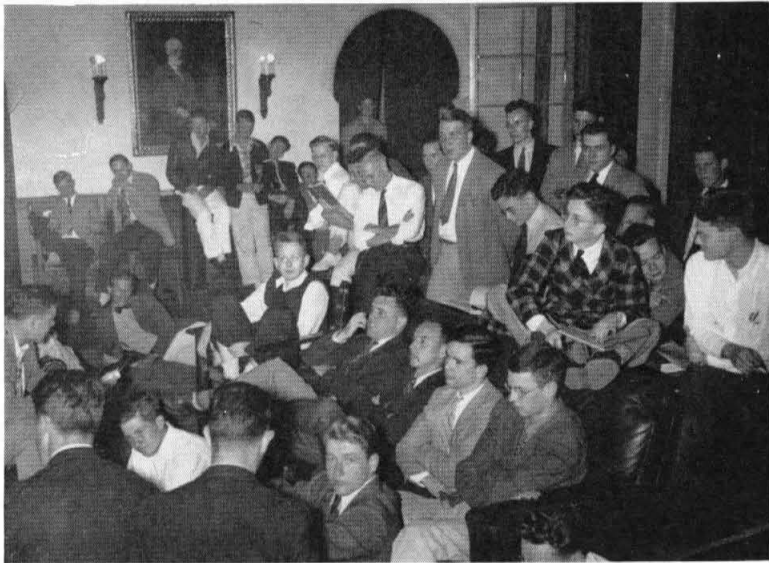
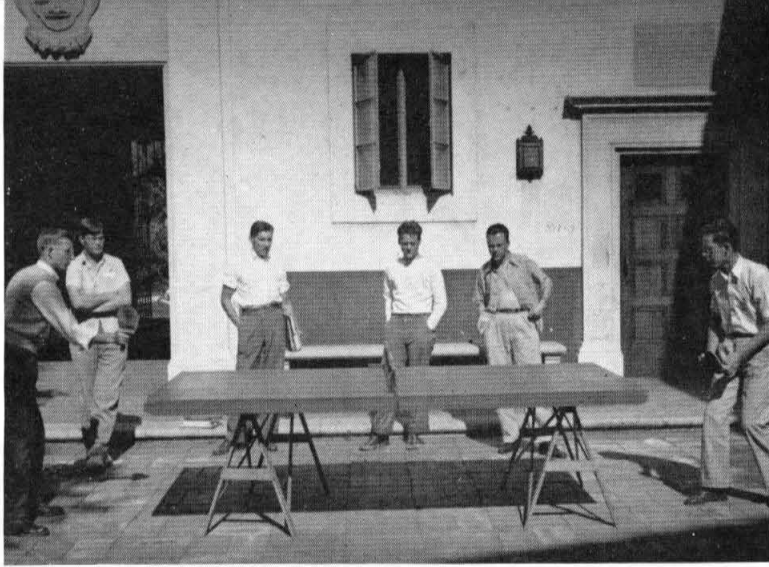


The largest lounge on the campus is located in Dabney Hall of Humanities. Here students relax or study between classes. On week ends it was the scene of Musicales programs and provided dancing space for YMCA exchange dances, the frosh tea dance, the Tau Beta Pi formal, and the Varsity Club dance.



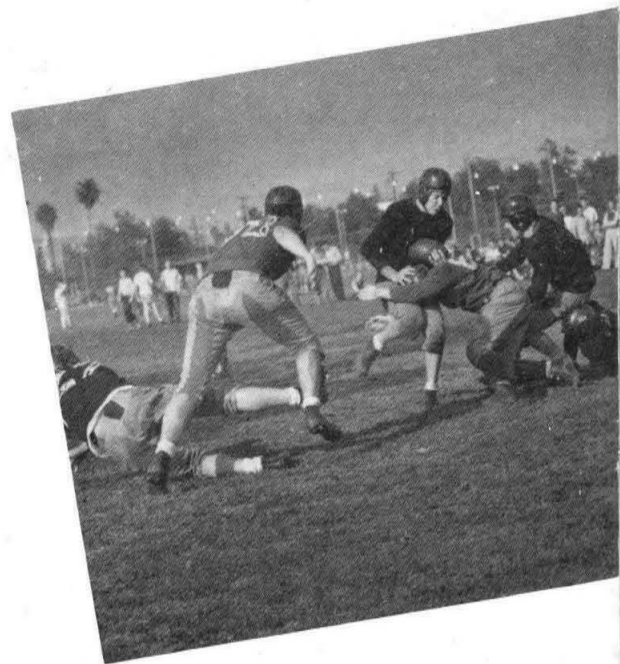
Building units are connected by many attractive arcades. Providing shade and protection against the weather, their interesting design is a fitting subject for the freshman free-hand drawing classes.





Balance in all phases of student life has for several years been the Keynote of Blacker House. But balance by no means implies the mediocre, for Blacker has been outstanding in all fields. Combining high scholastic standing, athletic interest, participation in student government and a brilliant social program, Blacker House represents a well-rounded house.

Top to bottom: The long unused ping-pong table becomes popular once again. Blacker elects officers. The bowling staggs. Right: Pounding through Ricketts.





First row: Amster, Atchison, Atkins, Ayers, Ban, Banbrook, Beagle, Bear. *Second row:* Beck, Bergh, Bracken, Buettell, Burke, Carter, Chastian, Cooke. *Third row:* Cotton, Dazey, DeRemer, Eich, Fleck, Francis, French, Gardner. *Fourth row:* Garland, Garner, Geib, Goodall, Greenwood, Grossberg, Hall, Harbottle. *Fifth row:* Holzman, Hubay, Johnson, Kaplan, Kenney, Kettler.

Blacker was fortunate again this year in having as resident associate, sage "Doc" Eagleson. "Doc" has proved himself invaluable with his "system" of supervision for those in scholastic difficulty, and for the touch of refinement with which he endows the House. Kenneth "Power-house" Schureman ably filled the office of Blacker president this year. Respected by all of the Tech student body, Ken has been an inspiring and capable leader. Other officers of the house were Paul Hubay, vice president; Paul Webster, treasurer; Barton Beek, secretary; and Paul McKibben and Dick Marsh, athletic managers. "Hooey" Simon occupied the revered office of "House Pope," performing the duties as only a true European could. Paul Hubay, as an aide to President Schureman, has demonstrated rare ability and judgment.

Blacker



Maintaining that pre-dominance for which it has long been noted, Blacker House, with Arthur Schneider as Social Chairman, as usual had an outstanding social season. First term boasted the proverbial, but always enjoyable Black and White Formal, the motif being ancient Greece. Other social doings included a scavenger party and several exchange dinners with Scripps Halls. Second term saw the long awaited Doc's Party. Doctor Eagle-son this year did himself proud with a circus party; pink lemonade, animal crackers, peanuts, and the "circus" decorations were encountered by fortunate Blackerites. The Senior-Soph formal, second term, was very well attended. Concluding the social year with a grand finale, Blackerites made their annual trek to the Coconut Grove for their famous tea dance. The Spring Dance, a formal affair featuring dancing 'neath the stars in Blacker Court proved to be the outstanding event of third term.



First row: Krueger, Lamson, Lassen, Lockett. Second row: Lochhead, MacRostie, Makepeace, Boyd Marshall. Third row: Ralph Marshall, McGee, McKibben, McWethy. Fourth row: Morris, Morrison, Nicholas, Olenbush. Fifth row: Panzer, Potts, Riddell, Saye. Sixth row: Schneider, Schureman, Sherwin, Curtis Smith. Seventh row: George Smith, Phil Smith, Spence, Steele. Eighth row: Wade, Webster, Welteroth, Wolfe.

Blacker

Rating second only to Fleming in interhouse athletics last year, Blacker, though last so far this year, has demonstrated that it certainly is not lacking in the athletic line. As usual, Blacker proved outstanding in softball and handball, gaining second places in interhouse competition in both these events. Blacker, with her usual excellent cross country runners, offered strong competition in this event. Discobolus rested once on the Blacker mantle during the year. Outstanding performances in house athletics were made by Paul Webster, Dick Carter, Paul McKibben, Art Schneider, Ken Schureman, Ralph Willits, Dick Marsh, Warren Amster and other Blacker lads.

For the sixth consecutive year the Abraham Lincoln Trophy in Forensics has been retained by Blacker. This year Blacker men held all offices in the honorary forensic society Pi Kappa Delta, and made up 75% of this organization's membership.

Scholastically Blacker rated high this year, having more Tau Beta Pi members than any other House. Blacker was represented on the Board of Directors by studentbody Treasurer, Wayne MacRostie. Among the organizations of which Blacker men were presidents were the Chem Club, Pi Kappa Delta, and the Rifle Club.



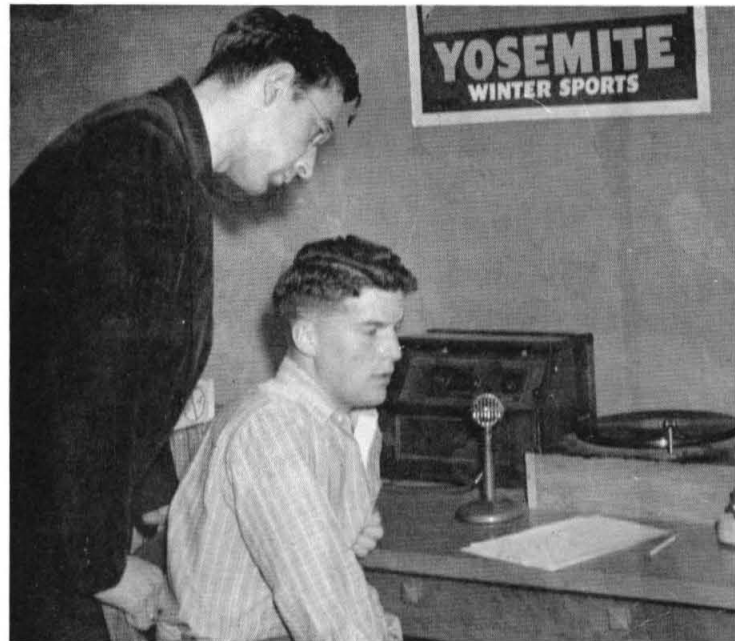
Dabney

First row: Allen, Bishop, Bloom, Blumenthal, Brundred, Buchanan, Carr. *Second row:* Cummings, Cunningham, Dameson, Dethlefsen, Dixon, Douglas, Farmer. *Third row:* Fish, Fleischer, Fullerton, Giacomazzi, Given, Gnaedinger, Grant. *Fourth row:* Grossberg, Grote, Hale, Harris, Ben Head, Dick Head, Hill. *Fifth row:* Hipsh, Hunt, Irving, Jasper, Jerrems, Jones, Jopson. *Sixth row:* King, Lawrence, Lesmez, Lockwood, Lundy, Lutz, Mason.



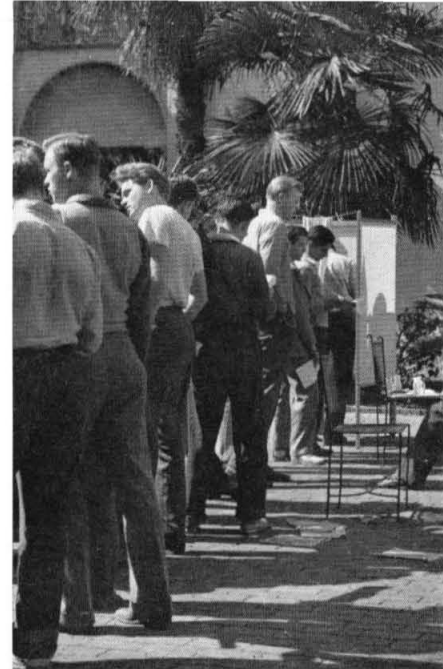


Left: Intermission time at the Interhouse Dance.
Below: Woods and Bussard at the controls of DBNY,
the radiator broadcasting station. *Far below:* The
traditional Dabney Hodge-Podge fling.



Dabney House is bidding adieu to twenty-one of its members leaving with the class of '42. And none of these twenty-one will soon forget the four years of fellowship which Dabney gave to him. Lingering in his memories will be many pictures: the noonday bull sessions around a small, battered, sun-weathered, green table, which always seemed to have room for one more pair of feet; the celebrated house parties with Browning, Clark, Dorsey, and Toll; and the dances in the court, illuminated in a kaleidoscope of spots, among them many a full moon. And there were the rough and tumble stags, often followed by get-togethers of the far-famed Dabney Hunt Club.





Left: Ted Lawrence overtakes Rex Rhoades in a bitter game of inter-alley touch football. Center: Entertaining the Oxy Girls Glee Club. Above: Dabney votes.

Highlight of the year for Dabney was the installation of DBNY, the campus broadcast station. Conceived by Gordon Woods and built by Woods and Jim Allen, DBNY went into operation shortly after the opening of school in the fall. Since that time it has broadcast every week night from six to six-thirty and has concluded with an hour of classical music in the evening. DBNY enjoyed support from those living in the houses; men from Fleming, Blacker, and Ricketts participated along with those from Dabney in making it a success.

Besides the house party and the spring formal in the court, Dabney had a riot of fun at its annual Hodge-Podge, went in for stags, both roller-skating and bowling, and had its annual snow and beach parties. Doctor Clark continued his weekly dinners.

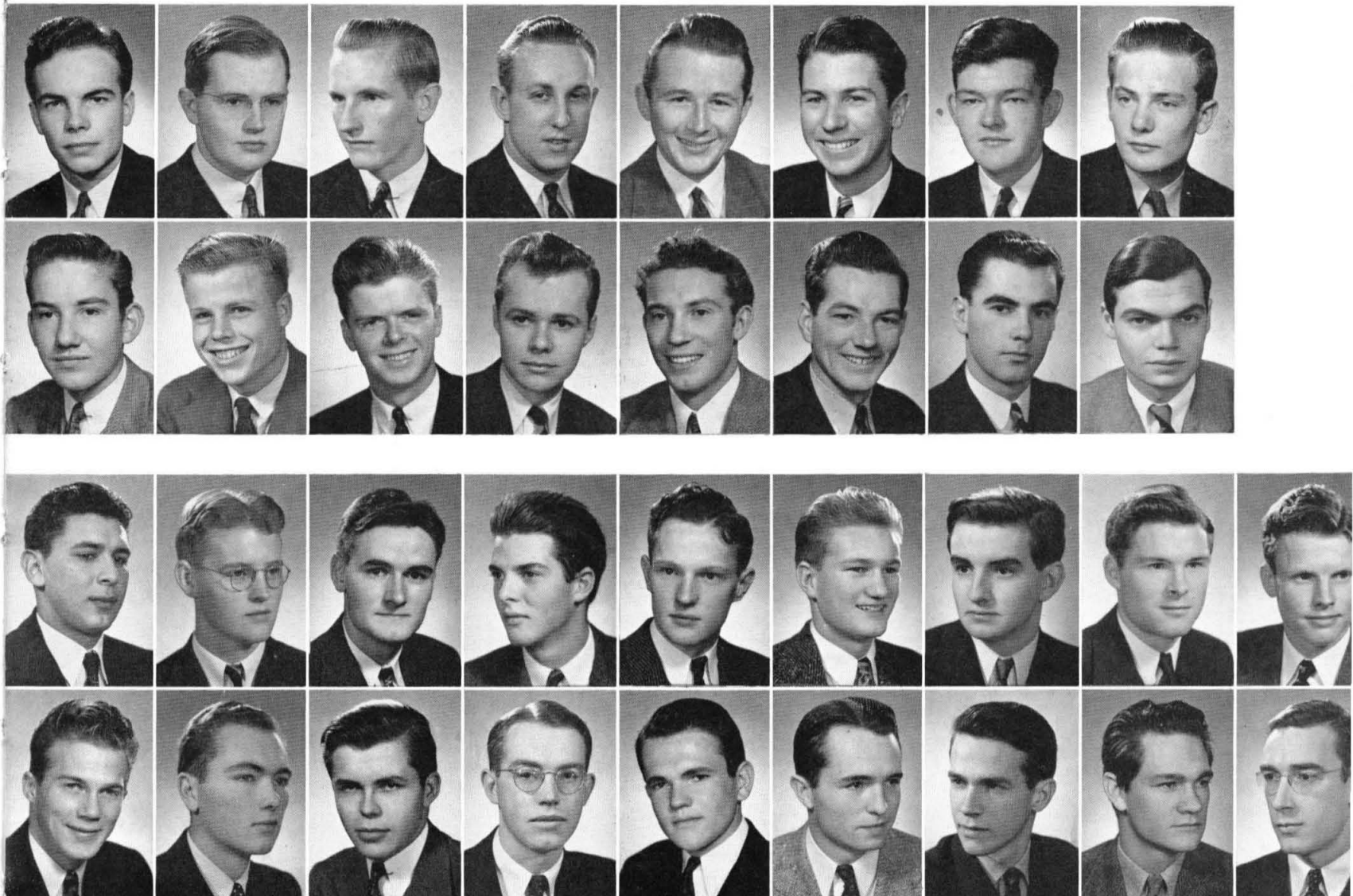
Dabney

Among the personalities remembered are many who were prominent in the student body. Phil Lutz, ASCE prexy, was always half of a chopstick duet; smooth, drawling Dave Hill broke all records as Business Manager of both the Little T and the Alumni Review; John Rubel, Beaver prexy, pledged himself in January with resulting clouds of cigar smoke one night, and Dave Sheldon did the same; Ben Head led the ever-growing Ski Club; Bob Merrick was always breaking Conference swimming records; Ed Fleischer was junior class president; Rennie Storey was frosh chairman; and John Miles was president of Tau Beta Pi. There were many Dabneymen representing the Beavers and Tau Beta Pi, while Storey, Grote, Rubel, and Miles served on the Board of Control.

Bugle blowers Rhoades, Lawrence, and Farmer precipitated many a storm of protest which ultimately saw Lawrence's Napoleonic bugle strung high above the court in a symbolic lynching.

Officers for the year were President Gordon Woods, Vice-President Dick Head, Secretary "Hoot" Lawrence, Treasurer Al Jerrems, Athletic Manager Ed Fleischer, and Librarian Bill Giacomazzi; naturally William Julius "Hairless Joe" Russell served as Pope.

First row: Mattinson, McLain, Menard, Merrick, Miles, Mitchell, Moore, North. Second row: Ordway, Parkin, Poindexter, Protzen, Rhoades, Ridland, Rubel, Sabersky. Third row: Schetne, Schofield, Sheldon, Shor, Smith, Spainhower, Standart, Stevenson, Stone. Fourth row: Storey, Thorne, Tileston, Weidman, Wheeler, Wheelock, Wilkinson, Williams, Woods.



Fleming

Fleming House in the war year 1941-42 balanced proficiency in athletics with participation in other phases of student body activity. The comprehensive nature of the year's achievements was due in no small part to the efficiency of the house's leadership under deft, Machiavelian, house president Albrecht. The new resident associate, beaming Dr. Lucas of the chemistry department instituted a policy, new to Fleming men, in which kindly but firm administration tempered the rowdyism of the past with a touch of discretion.

Fleming's fertile mantle was adorned with all four of the trophies awarded for superiority in athletics. For the eighth consecutive year the house was awarded the coveted interhouse trophy; for the second consecutive year the new trophy for varsity participation; and for the first time the interhouse skiing trophy. The discobolus, too, rested in Fleming for the greater part of the year. With the interhouse trophy race rapidly approaching a crucial climax Fleming is going all out in its effort to retain supremacy.



The snake hole recess of Fleming's Interhouse Dance.

Cards in the court.

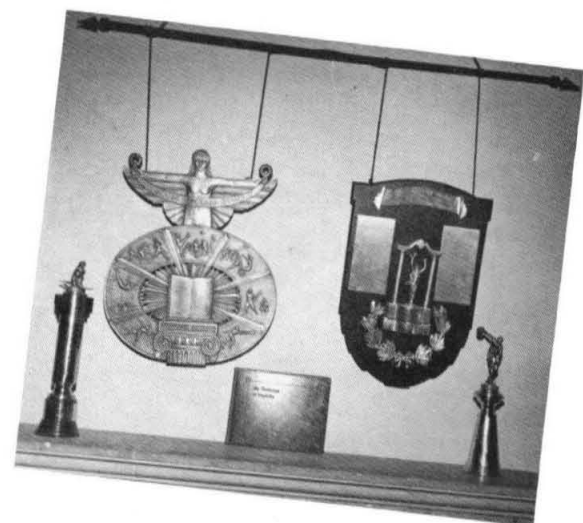




Thirteen varsity football lettermen, among them Captain John McClain, formed the nucleus of Tech's team. Captain Al Albrecht, newly elected captain Bill Fair, and Harry Moore were outstanding on this year's stellar basketball squad. John Dimmick won the Scott tennis trophy for the second consecutive year from Martin Gayer, another Fleming athlete, and both will see service in conference competition. The house will be adequately represented on the track team by captain "Junior" Lind, "Squeak" Gillette, Dwain Bowen, and Doug Reid. Bob Frost and Captain Henry Roese will be among the few veteran's on Tech's baseball team. Sophomores Jimmy Tuedio and John Nelson, record setters on last year's freshman conference championship swimming team, will be gunning for new marks this spring. Strong men in interhouse athletics were Louis Gowans, Bob Frost, and Kenny Powlesland. Among the many fine athletes among Fleming's freshmen were Bill Elliott, George Austin, Neville Long and Bob Laabs.

First row: Albrecht, Allford, Allen, Alpert. *Second row:* Ammer, Bashor, Beckstead, Bell. *Third row:* Bennett, Berman, Bishop, Blayney. *Fourth row:* Bowen, Bragg, Brockman, Brown. *Fifth row:* Bruce, Busard, Curtis, Day. *Sixth row:* Dewdney, Dimmick, Dodge, Elliot. *Seventh row:* Fair, Frost, Gayer, Gillette. *Eighth row:* Gold, Goldsmith, Gowans, Graner. *Ninth row:* Greenwood, Elmer Hall.

Below: Look at the trophies.

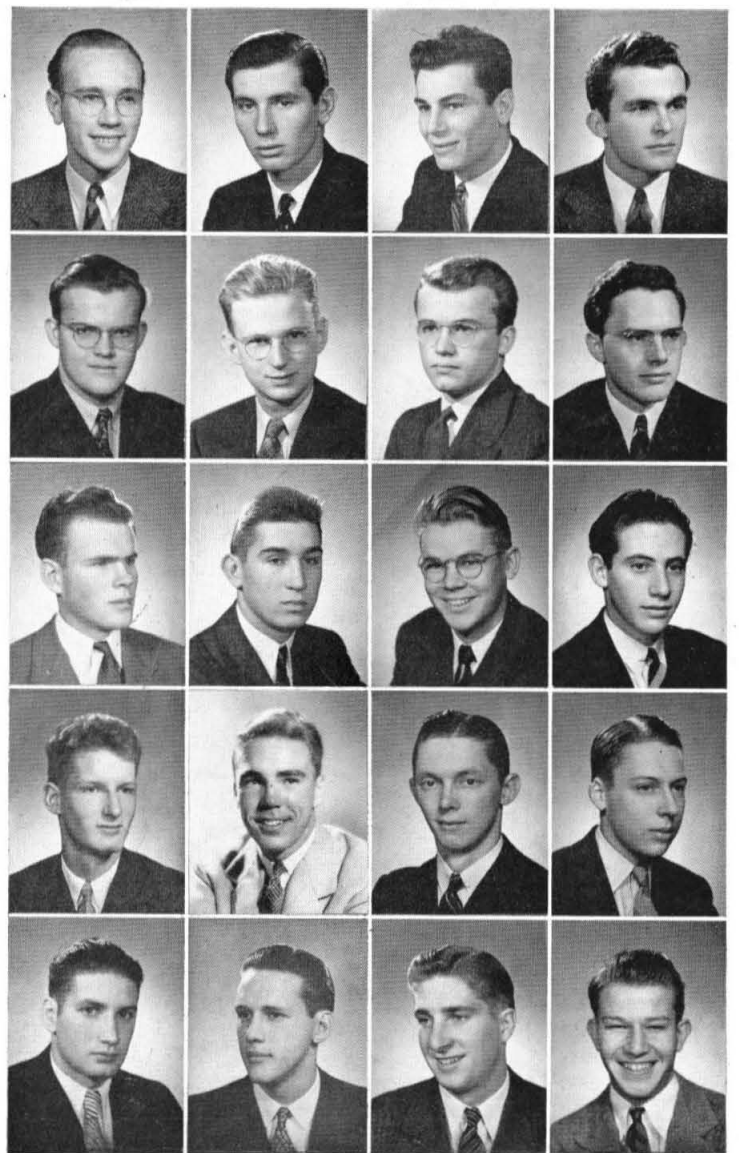


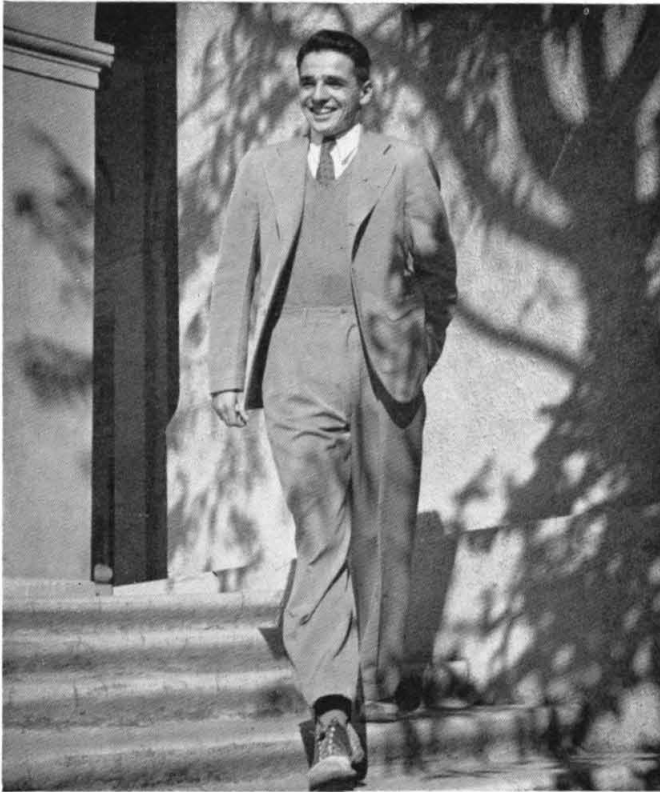


First row, above: H. Hall, R. Hall, Harland, Holditch. Second row: Horne, Johnson, Klachn, Laabs. Third row: Lester, Lohan, Lewis, Lind. Fourth row: Lingle, Long, Lovelace, Lumis. Fifth row: Mann, Mars, McClain, Mead. Sixth row: Merritt, Moore, Morris, Nelson. Seventh row: Norsworthy, Pickles, Powlesland, Price.

First row to right: Pritchard, H. Proctor, W. Proctor, Reid. Second row: Ridenour, Rolph, Roese, Scheck. Third row: Seed, Smith, Spencer, Stix. Fourth row: Stokely, Stone, Tedrick, Tuedio. Fifth row: Urbach, Weller, Williams, Young.

The unity of purpose generated by the intensity of Fleming's athletic endeavor served the house well in social and student body affairs. Student body vice-president Gillette presided over the Board of Control, the majority of whose members were Flemingites. Leroy Weller, Amasa Bishop, and Warren Gillette were Fleming's representatives on the Board of Directors. Bob Frost was business manager of the California Tech, while John McClain guided Big T finances. Fleming boasts a majority of the newly elected Board of Directors.





That handsome man, Amasa Bishop.



Hank and Cab.

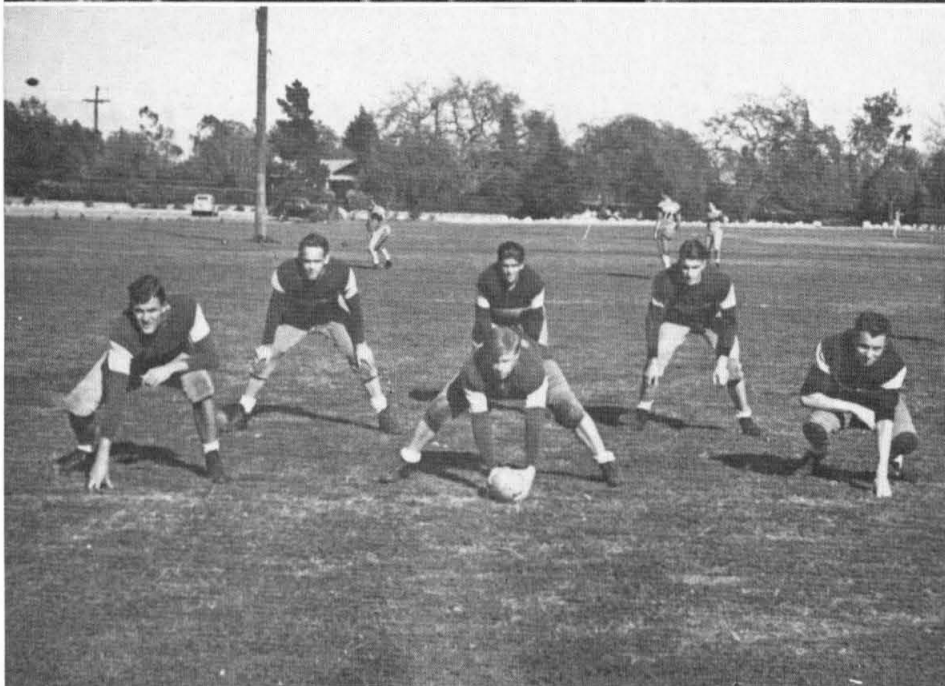
Most any weekend found the suave men of Fleming (under the table at Gambrinus) enjoying one of the house's gala social events. Among the highlights were a dance at the Biltmore Bowl, an exchange dance with Toll Hall, the notorious Ricketts-Fleming barn dance, the house formal at the Annandale country club, and the all day beach party. Humdrum existence at Tech was enlivened by numerous internecine apple core wars with Dabney House and by competition for the famous Austen inter-alley trophy and the new Price senior trophy.

Officers for the past year were, president, Al Albrecht; vice-president, Warren Proctor; secretary, Paul Allen; treasurer, John McClain; athletic manager, Leonard Alpert; entertainment chairman, Bill Fair; and social chairman, John Brockman.

Fleming



Versatility became once more the activity keynote of the men of Ricketts House, with campus leadership of student government and many extracurricular affairs theirs. Fleming met here with a serious threat to an erstwhile secure predominance in the field of athletics. Lively social functions, livelier brawls were again the front for a serious, constructive devotion to Caltech and its student body, which was shared by every man.



Above left: Bar room atmosphere. Below: Intermission. Center left: The Ricketts six-man football team which lost a thriller by one point to Fleming.

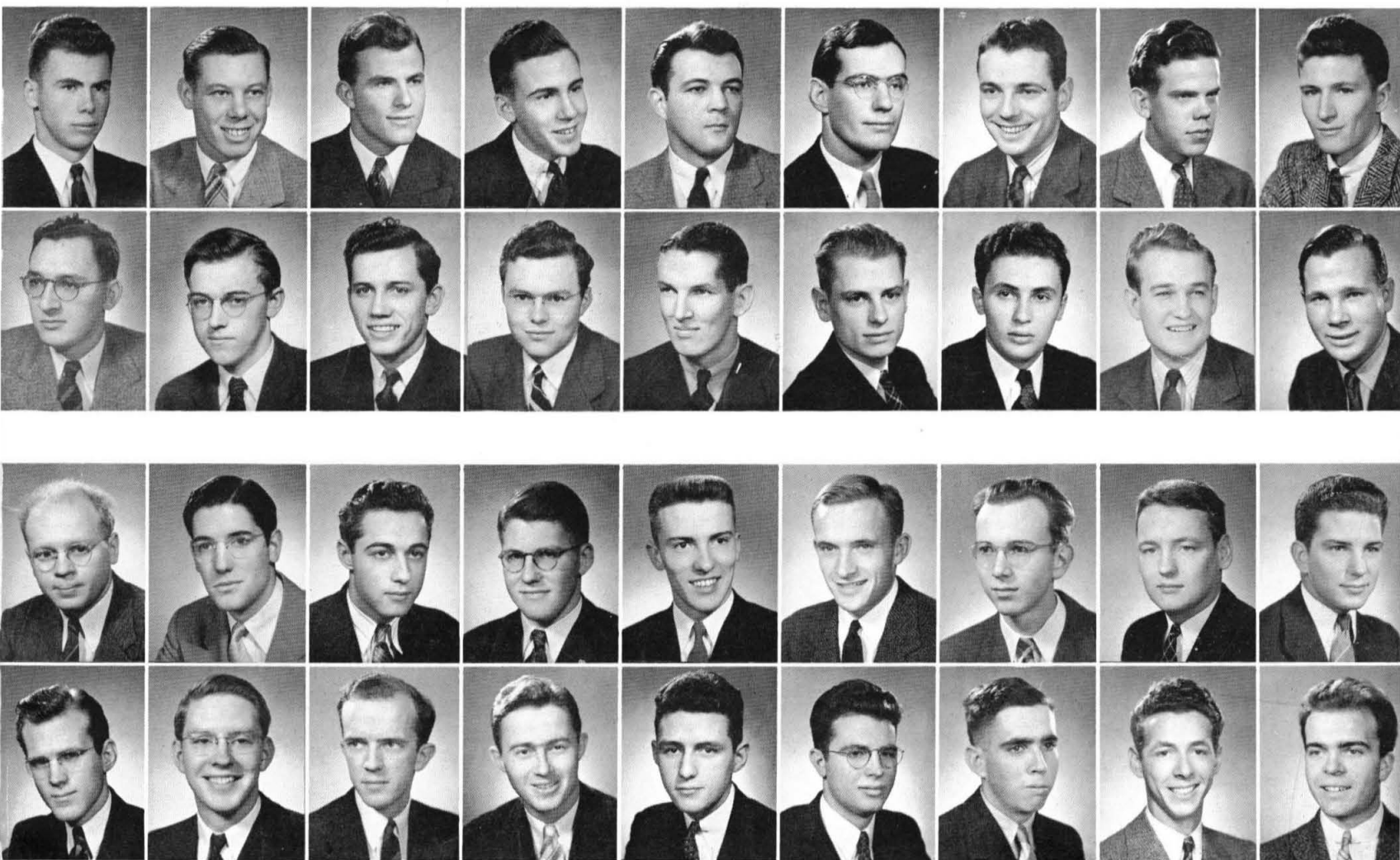
Ricketts men served the ASB this year in every line of endeavor. President Bill Hicks, Athletic Manager Everett Macartney, Rally Chairman Stew Davis, Representatives Charles Strickland and Tway Andrews saw service on the Board of Directors. The Big T and the California Tech were guided in their destinies by Editors Bob Densmore and Bill Turner.

In athletics, Ricketts provided a strong contingent on every team, major and minor. Chuck MacDougall, Evy Macartney, Stew Martin, and "Jungle Jim" Smith contributed to a powerful football backfield. Strickland and Andrews in basketball, Densmore in track and cross-country, Strickland in tennis, and Spaulding in soccer are a few more of the leaders. Ricketts' usual low grade point average was compensated by six memberships in Tau Beta Pi and five men in sophomore section A. Fully one-third of the publications staffs were composed of Ricketts men.

Looking to the future, new Ricketts student body officers are President Strickland, Athletic Manager MacDougall, Secretary Andrews, and Tech Co-Editor Ashley.

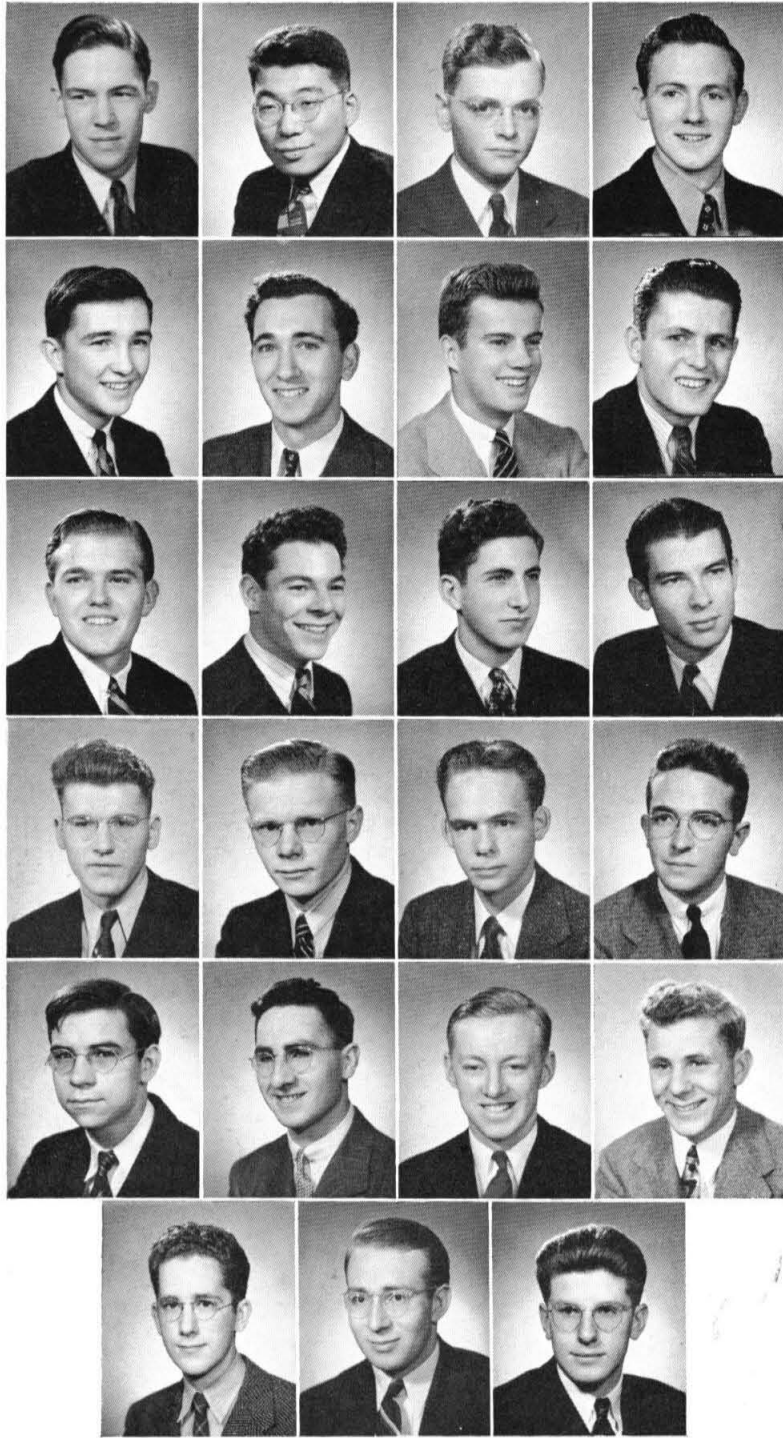


First row: Adams, Anderson, Andrews, Arnold, Ashley, Bacon, Bartlett, Borden, Chalmers. Second row: Cohn, Charles Cox, Dick Cox, Dall, Davis, Densmore, Engel, Felberg, Fisher. Third row: Fiul, Fleming, Frey, Granicher, Green, Griffith, Gustavson, Halpenny, Hanson. Fourth row: Hedstrom, Henderson, Hendrickson, Hicks, Hine, Hodder, Holser, Howard, Hughes.

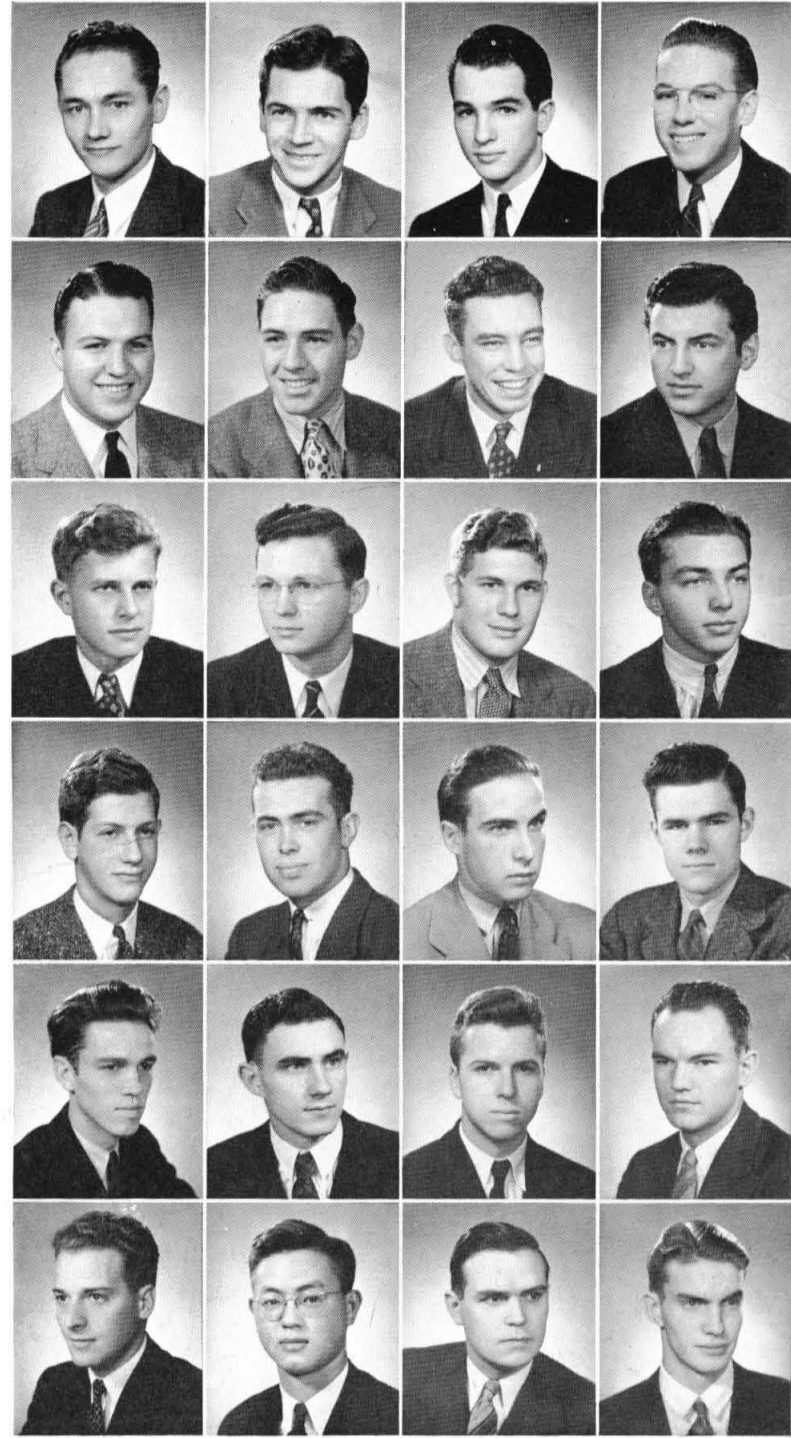


Ricketts

First row: Jones, Kashiwabara, Kennedy, King. Second row: Malone, Margaretten, Martin, McCoubrey. Third row: Howard Miller, Naylor, Newman, Nyborg. Fourth row: Rutherford, Shippee, Shoner, Sigworth. Fifth row: Robert Stone, Sidney Stone, Strickland, Sweet. Sixth row: Turner, Van Ness, Van Voorhees.



First row: Kott, LeClair, Lockwood, Mader. Second row: Macartney, McDougall, Meyer, Herman Miller. Third row: Osgood, Paul, Pilorz, Rosener. Fourth row: Sloane, Smith, Spaulding, Staley. Fifth row: Tenney, Townsend, Trimble, True. Sixth row: Wood, Yik, Joseph Young, James Young.



A spirited and individualistic group of freshman pledges were soon tamed at the hands of Mister Ted Bartlett, Sir, Honorable Pledgemaster; after being inducted into the house, they soon proved true to the Ricketts tradition, with a particular emphasis on athletic achievement.

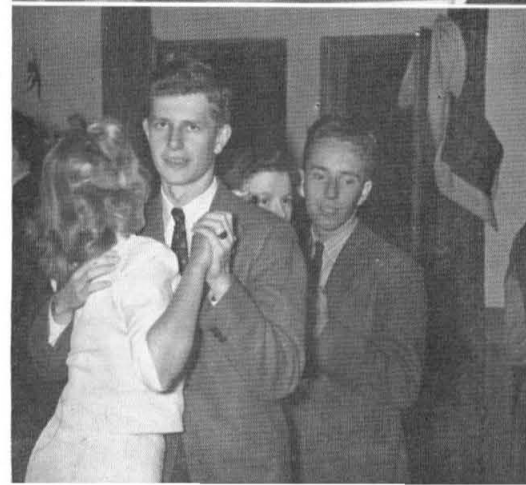
Leaders on the home front were House President Al Paul, Vice President John Bewley, Secretary Fred Tenney, Treasurer Bill Kennedy, Athletic Manager George Griffith, and Librarian Bill Bair. The entertainment of many Non-resident Associates became a special feature of their administration. A second highlight was an increase in the general noise level and informal fun within the walls. Ordinary and extraordinary varieties of room sabotage were climaxed by an invasion by several thousand bees.

Ricketts

Ricketts' social bright spots of the year included a very informal senior dance, several exchanges with Scripps College Halls, an impressive Panama theme at the Inter-house, and the Throop-Ricketts semi-formal. Later notable events were the Formal at the Beverly-Wilshire Hotel, a typically rowdy sophomore Prison Ball, a junior-freshman Harlem interlude, the smooth, moonlit Spring Dance, and the annual beach party and dinner dance. Few will ever forget that "unofficial" Barn Dance with Fleming.



Left above: Taking time out. Below: Bright eyes. Above: A corner of the freshman-junior hotfoot.



First row: Abrams, Allingham, Allen, Allrud, Almassy, Kenneth Anderson, Reed Anderson, Bob Anderson. *Second row:* Andrews, Anspach, Ashbrook, Atkinson, Baird, Bauer, Barrow, Beers. *Third row:* Begovich, Grant Benson, Bob Benson, Bezdecheck, Bond, Booth, Bradley, Brady. *Fourth row:* Brandt, Charles Brown, Crawford Brown, Dave Brown, Glenn Brown, Buchanan, Bunker, Buller. *Fifth row:* Carter, Campbell, Chadwick, Clingan, Clark, Clayton, Coit, Crater. *Sixth row:* Curci, Davis, DeVault, James Drake, John Drake, Eller, Elliott, Albert Ellis.



Below: Dancing, western style. *Right:*
Throop Club patio, newly painted.



Throop Club, the powerful cooperative organization of off-campus Caltech men, made great strides in advancing its already important position in campus affairs during the year. Capable leadership coupled with energetic support of the members increased the membership from 150 to 200 and fostered greater unity in the club.

An important factor in promoting this advance was the practice of holding more frequent dinner-meetings at which important club business was transacted and entertainment provided in many forms which varied from movies, musical entertainment, and magic, to talks by such important faculty members as Dr. Millikan, Professor Sorensen, Dean Jones, and Professor MacArthur and also Dean Carroll of the Harvard School of Business Administration. During the first term, a very successful stag was held which did much to arouse the interest of the members in club activities.

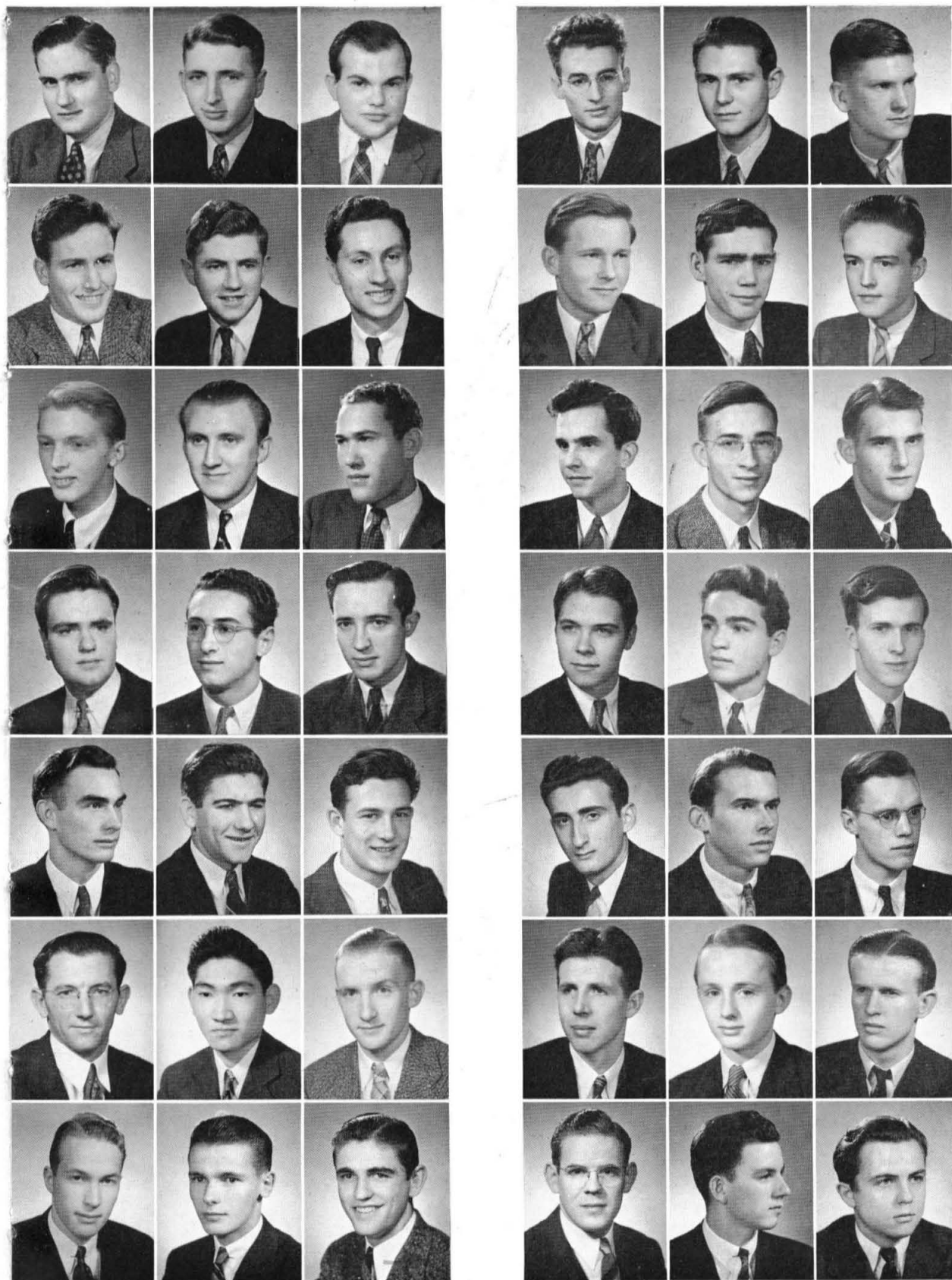
In the field of sports, Throop Club had an undefeated basketball team and unusually strong teams in most of the other sports. The Discobolus was in the possession of Throop Club on a number of occasions including at the Interhouse Dance. A new policy of awarding sweaters to members of undefeated Interhouse teams and emblems to members of all teams was initiated.

Throop Club

Throop Club was very active socially during the year, and in addition to numerous record dances, all three terms were highlighted by major social events which were well attended by the members. Of special importance first term were the exchange dance with the Occidental College off-campus girls' club, which was even more successful than had been anticipated, and the formal dance in Dabney Lounge. For the Interhouse Dance, during first term, Throop was converted into a Paris dive so effectively that no detail was lacking. Second term featured a dinner-dance at the Palladium, a barn dance, and a theatre party at the Pasadena Community Playhouse. Third term saw the officers' installation dance and a Spring Dance in the patio.

First row: Joe Ellis, Flavell, Foster, Franzini, Fredrick, Freeman, Gardner, Joe Garst. *Second row:* Warren Garst, Tom Gilbert, Ray Gilbert, Gilman, Graham, Green, Grimm, Gruen. *Third row:* Norman Hall, Richard Hall, Hamilton, Hammel, Harter, Hatcher, Hausman, Hawthorne. *Fourth row:* Hicks, Jack Hoagland, Cliff Hoagland, Hodges, Hornstein, Howton, Hull, Atchison. *Fifth row:* Hunter, Jephcott, Johnson, Kobara, Klein, Knudson, Kremers, Kumm.





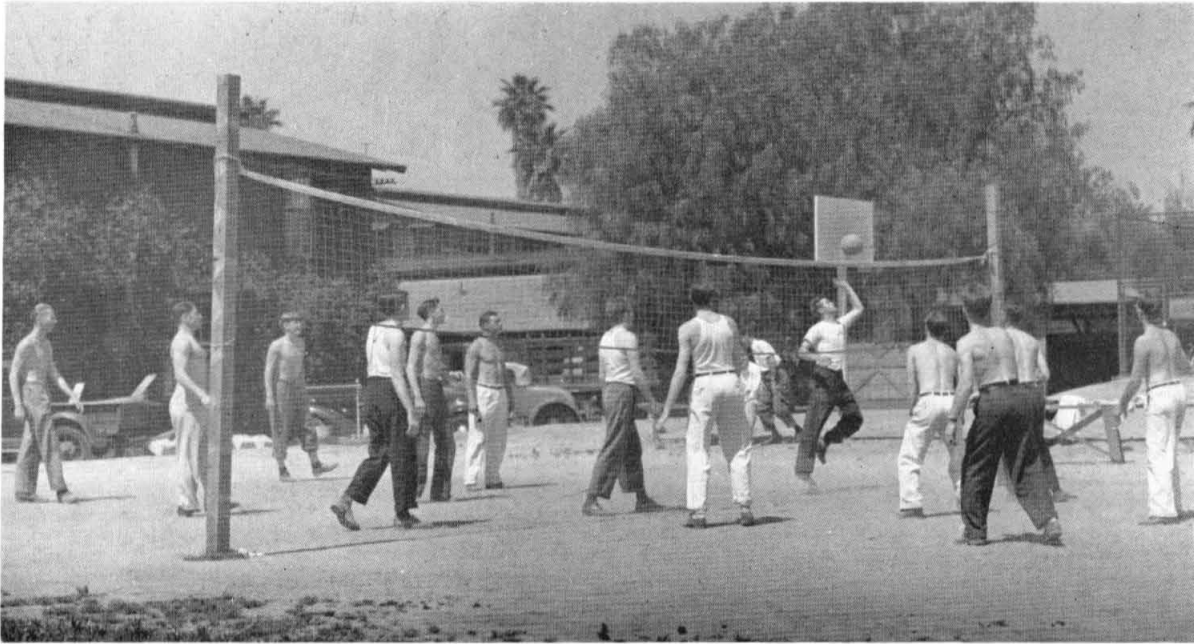
First row: Lane, Larson, Landau, Lesser, Lestman, Linnes. Second row: Long, Lyle, Mackenzie, Madley, Mann, Marshall. Third row: Mattson, Martens, Mayer, McCormack, McEuen, McLain. Fourth row: Meehan, Mehl, Merryfield, Mill, Jack Mitchell, Walter Mitchel. Fifth row: Robert A. Moore, Robert W. Moore, Muehlberger, Nahas, Nevill, Morford. Sixth row: Neutzel, Nuno, Odell, Herbert Osborne, Louis Osborne, Pearson. Seventh row: Piatt, Pischel, Poolman, Pond, Pugh, Rea.

Throop Club



First row: Rambo, Rempel, Rhyne, Roberts, Rogers, Rutland, Rypinski, Sadler. *Second row:* Art Sakamoto, James Sakamoto, Sameshima, Sanders, Saplis, Savit, Schamberg, Schlinger. *Third row:* Schuyler, Scott, Scribner, Seegman, Silliker, Sinclair, Six, Skinner. *Fourth row:* Smallberg, Smith, Strader, Sternberg, Steinle, St. John, Strain, Stone. *Fifth row:* Sturdevant, George Sutton, Richard Sutton, Tasker, Teipner, Terrell, Thompson, Charles Trilling. *Sixth row:* Leon Trilling, Ukropina, Van Orden, Veenhuyzen, Veronda, Vogel, Walker, Wanlass. *Seventh row:* Warren, Waters, Weeks, Wheeler, Wilcox, Winter, Woods.

Bob Wilmoth served as president for the third term of last year, and Robert Nahas filled the office for the first and second terms of this year after Wilmoth withdrew. Other officers, who served three terms were: Vice President Dave Elmer, Secretary Charles Brown, Treasurer Shelton Steinle, Social Chairman Ken Anspach, Athletic Manager Jack Froehlich, and Publicity Director Lewis Rambo. Jim St. John, Roy Mann, and Arnold Nevis worked as lounge chairmen, and Bob Nahas acted as pledgemaster.



Left: After lunch volley ball.
Below: President Anspach conducts one of the frequent Throop Club dinner meetings.

An unusually large group of freshmen were initiated this year, and their initiation provided much labor and amusement for the upper-classmen. At the informal initiation, which began as a dinner and ended as a parade to Bards Theatre, two greased pigs did not prove lively enough, so a greased freshman was substituted, and the initiation proceeded as planned.

Throop Club

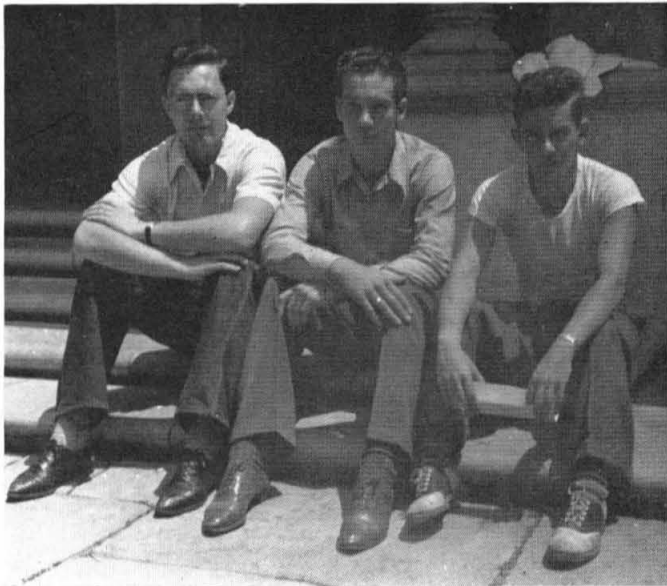
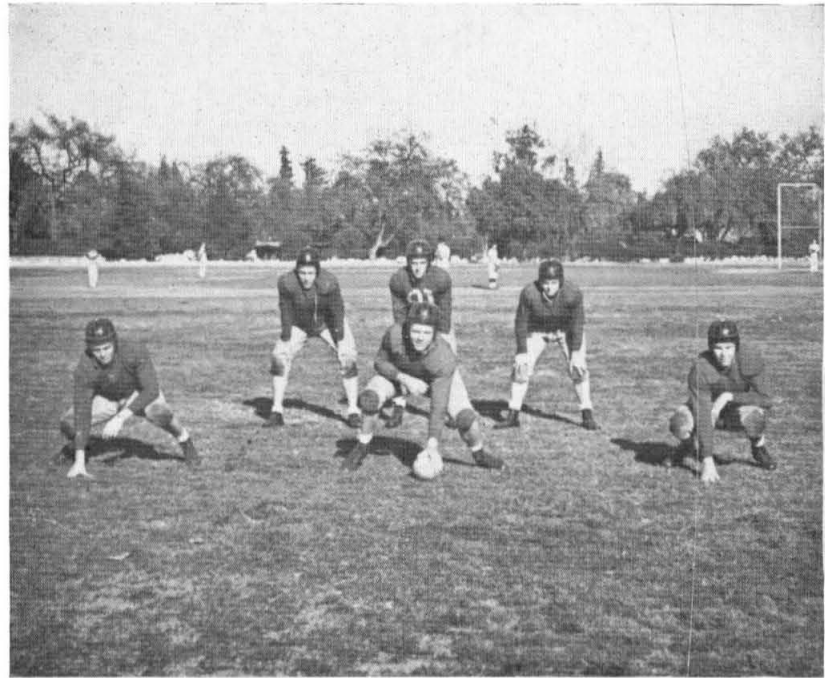


Outstanding Interhouse teams. *Fleming handball*—top below: Scheck, Lester, Alpert. *Bottom below*: McKibben drives around Bartlett and Shippee in the Ricketts-Blacker game.

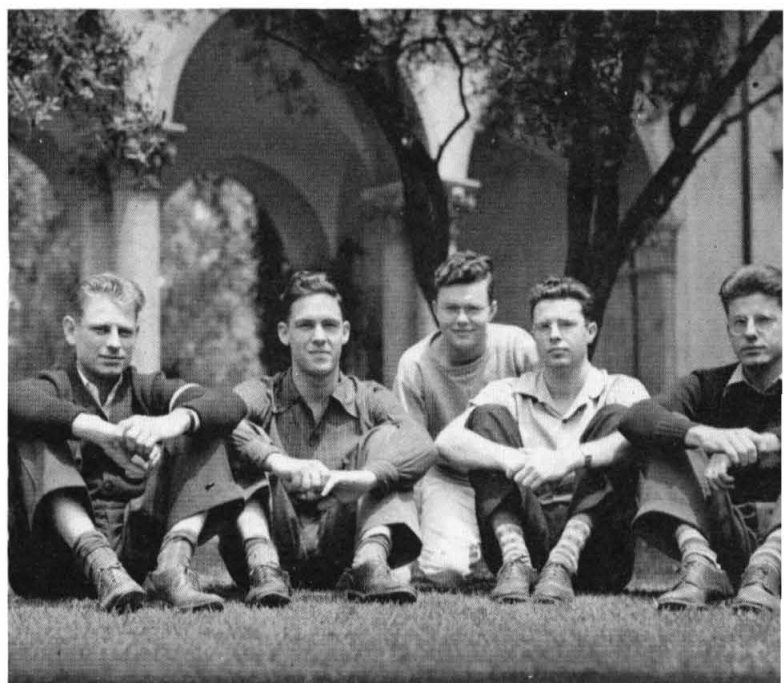
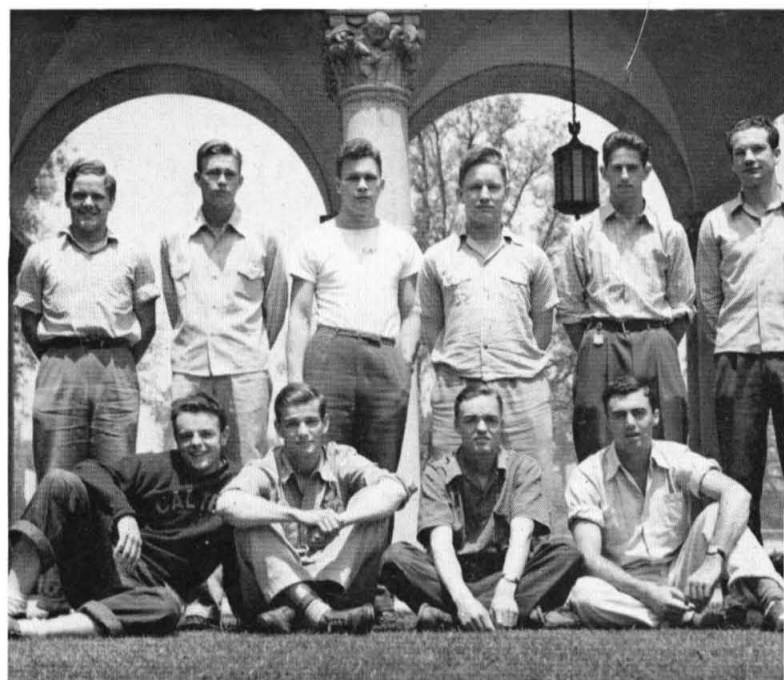
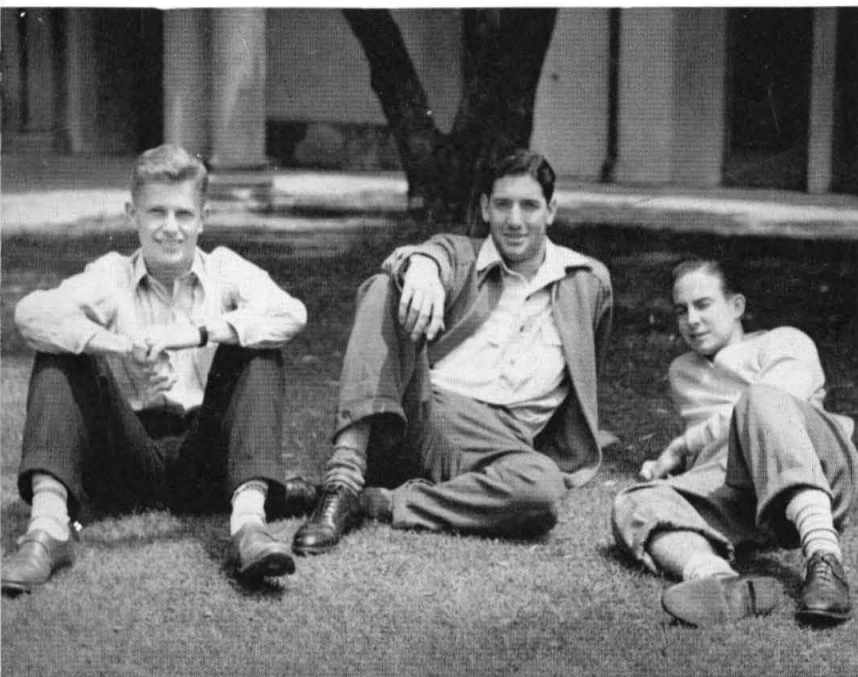
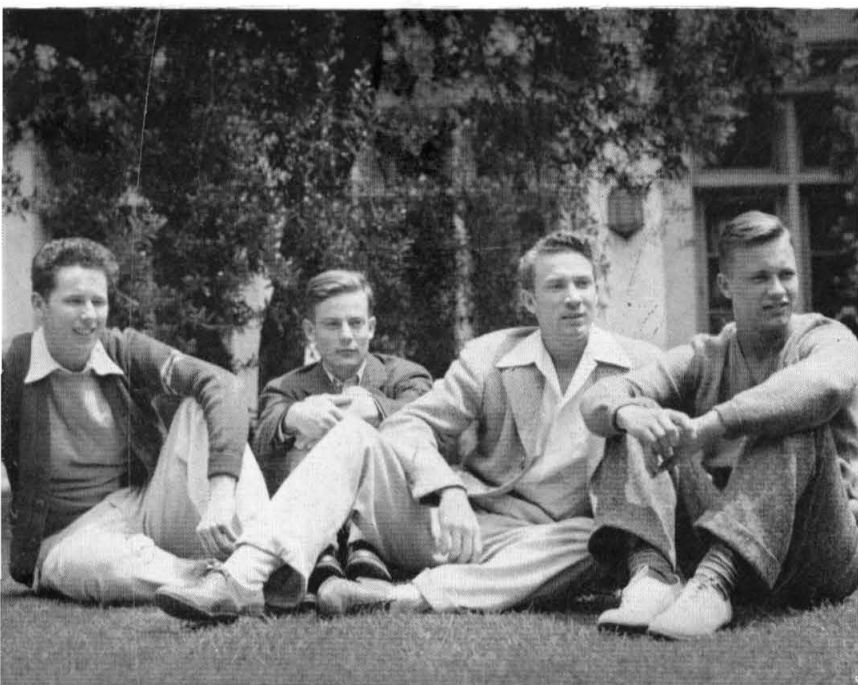
Fleming football: Wiggs, right end; Day, center; Spencer, left end; Nelson, right half; Schaafsma, full; Laabs, left half. *Dabney tennis*—right above center: Fleischer, North, Rhoades, Farmer. *Fleming track*—above far right, back row: Merritt, Hickey, Gowans, Brown, Lovelace, Graner, Long, Lingle, Lester, Hall. *Front row*: Laabs, Callaway, Kidder, Gold, Allen, Reed, Powlesland.

Ricketts hardball—near right below, standing: Young, Ashley, Tenney, Shonderd, Spaulding, Arnold. *In front*: LeVine, Hanchett, Van Ness, Hine, Macartney, Martin. *Ricketts tennis*—right center below: Osgood, Fleming, Spaulding.

Fleming softball—far right center, back row: Dimmick, Gowans, Austin, Frost, Hall, Lester. *In front*: Laabs, Callaway, Powlesland, Bashor. *Ricketts cross country*—lower far right: Densmore, Jones, Dall, Hodder, Van Voorhees.



House

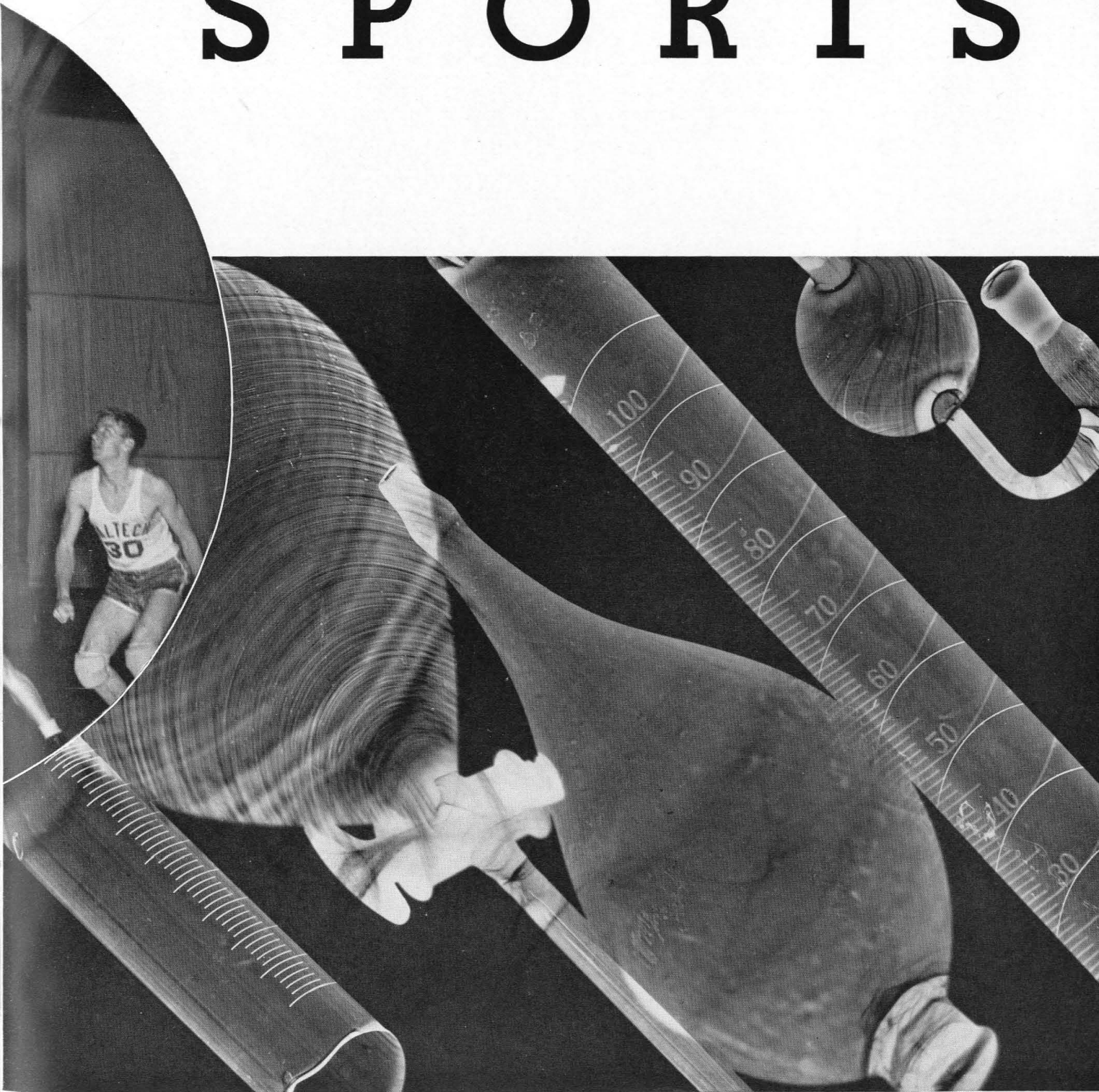


Sports



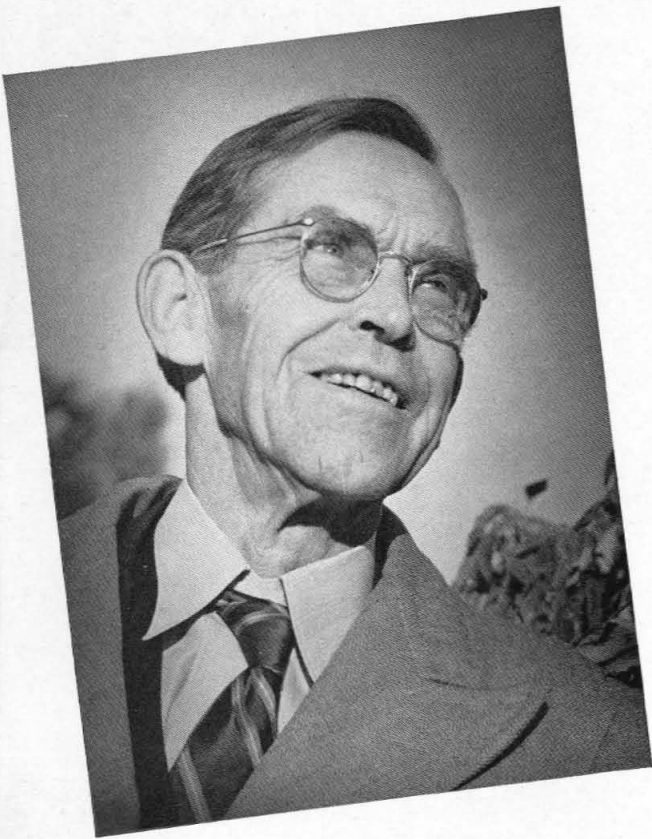
M E N O F

S P O R T S





Above: Pilorz carries the ball over in the victorious Pomona game. Left: Coach W. L. Stanton.



An era of Caltech football was closed last season when William L. Stanton, nationally known as "Fox," announced his retirement as athletic director and football and track coach. Coach Stanton came to Caltech in 1921 as head football coach on a temporary basis. He remained twenty-one years and was for all that time the very spirit of Caltech athletics.

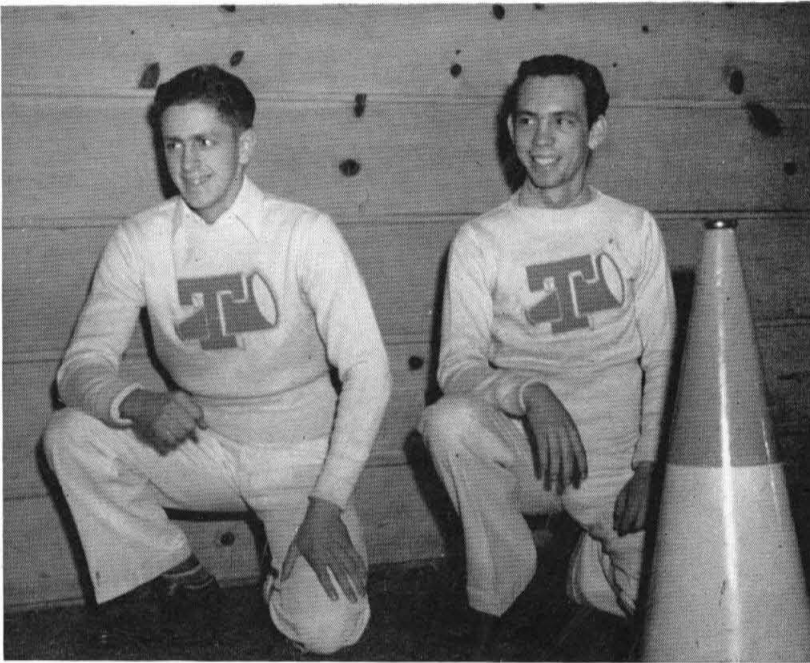
Stanton began coaching football as a player in 1894, and has been connected with the sport ever since, devoting the last thirty-three years to the Southern California conference. Before he came to Tech, "Fox" coached at Pomona and Occidental.

His teams have been noted for clean and hard playing, and many a coach who underestimated a "weak" Stanton-coached team rose to regret it on a Sunday morning.

His retirement signalled the occasion for numerous banquets and tributes. Ralph Deems, president of the Oxy alumni "O" club and a player on Stanton's squad, presented an "O" blanket to him before the Oxy-Colorado game. Gifts from Caltech included a long-wanted fishing outfit and camera.

Not only will Caltech miss "Fox" Stanton, but the entire coaching profession will miss a distinguished member. There is only one "Fox" and his going leaves a gap that none can fill.

Coach Fox Stanton



Drumming up school spirit for the football team was not an easy job this year. For example, the bitterly contested Oxy game was scheduled so soon after the season began that frosh had little time to secure boxes for the bonfire and Rally Chairman Stew Davis was pressed for time in which to prepare the pajamarino program. But with the help of Cheer Leaders Jack Froehlich and Dick Hall, the event was a success despite the score of the game..

Left: Yell Leader Jack Froehlich (right) and his assistant, Dick Hall. Below: The pre-Oxy-game pajamarino; piling boxes; selecting the prize-winning pajamas; starting the parade.

The final football celebration was the annual banquet, which emphasized two things: one joyful, Caltech's victory over Pomona; and one sad, the loss of William "Fox" Stanton as coach and athletic director.

Co-captains Tommy Elliott and John McClain paid tribute to Stanton, as did the other senior lettermen, Dave Howton, George Lind, Harry Price, Warren Proctor, and Henry Roese.

The other award winners were Evy Macartney, Chuck McDougall, Stew Martin, J. B. Graner, Web Beckstead, Jim Blayney, Harry Moore, Fred Tesche, George Holditch, Art Carson, Jim Smith, Bruno Pilorz, and Don Pritchard.

Dave Howton was the players' choice as winner of the Wheaton trophy, awarded for sportsmanship, scholarship, and moral influence. "Roundo" Macartney was announced as next fall's captain.

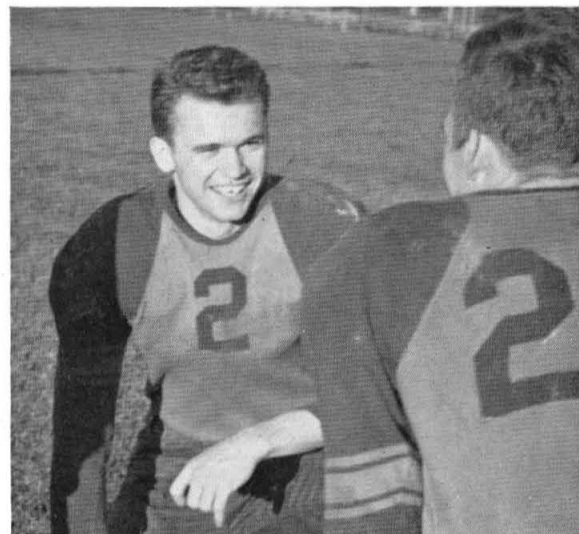
Tommy Elliott made the all-conference team, while Dave Howton, Henry Roese, Chuck McDougall, and Stan Holditch received honorable mention.



Football Celebration

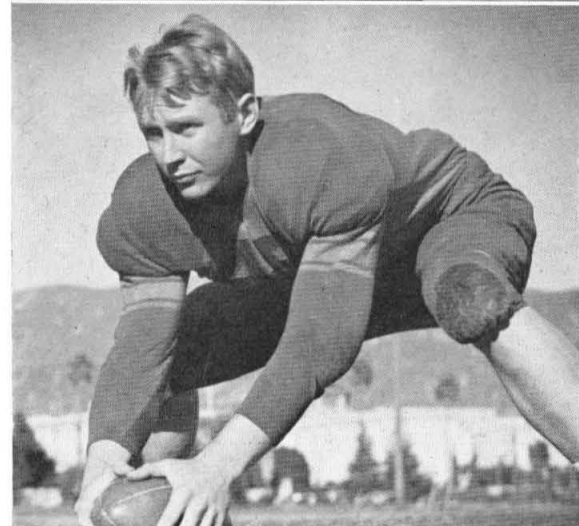


Above: Tommy Elliott, co-captain and
halfback. Right: Henry Roesse, half,
and Webster Beckstead, center.

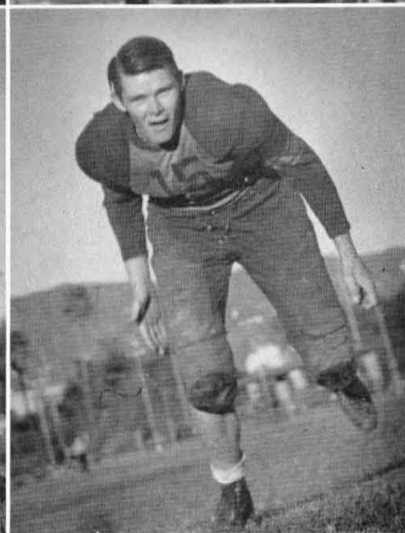
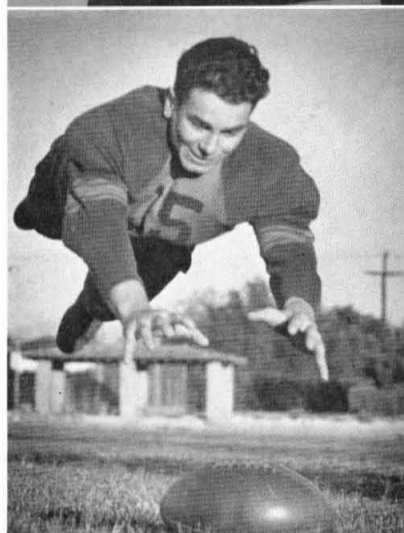
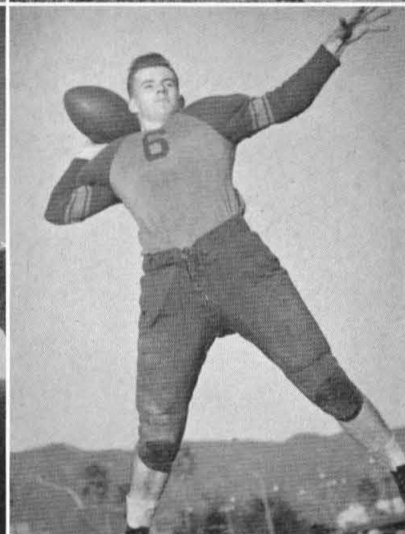
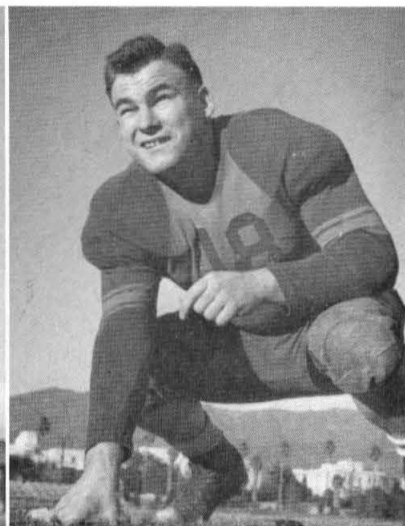
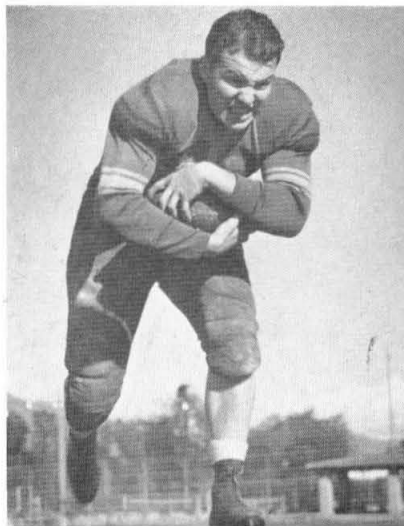
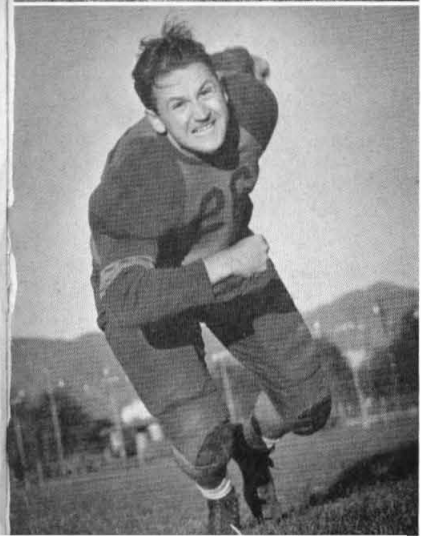
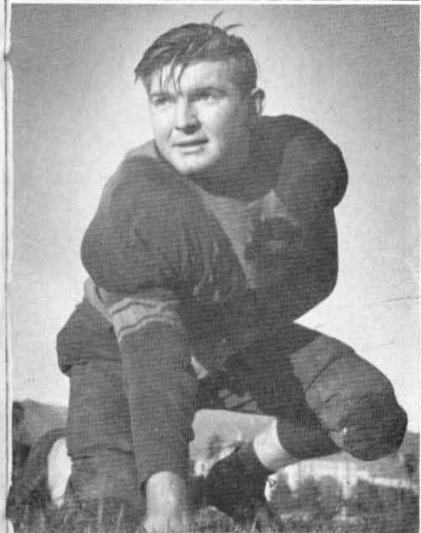
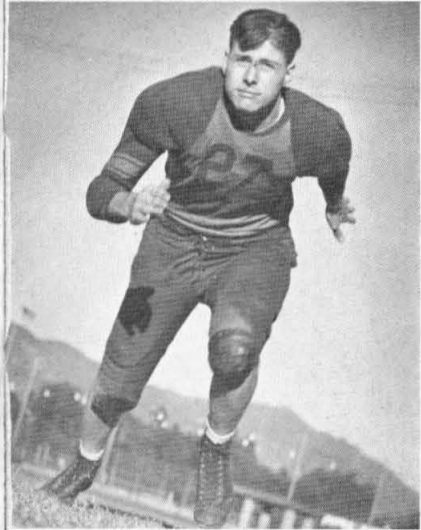
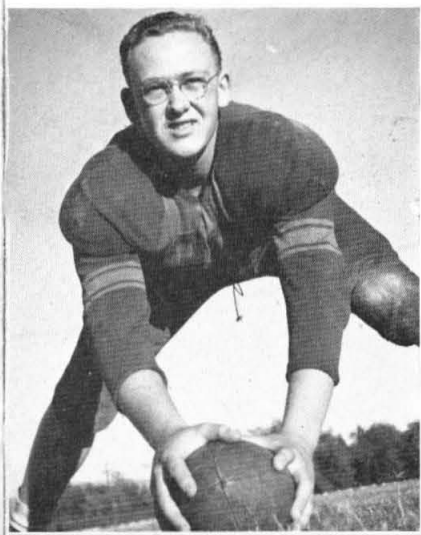


Boasting an abundance of power, the Beaver gridders appeared headed for the most successful season in years. Yet the team, with exception of notable instances, showed lack of a smoothly coordinated offense or defense. In the grip of a losing complex, the Techmen remained without winning punch until the season was almost over.

Finding its real strength against Redlands in the second half, the Beaver Varsity changed from disappointment to a real ball club. The whole team suddenly gained confidence and drive which climaxed in the Pomona game. A smooth playing, inspired Tech squad completely outplayed and annihilated the highly favored Sagehens for sixty minutes. However, this determination came too late and the best Tech could do was third in the conference standing.



Lettermen



Left—top to bottom: Holditch, center; Carson, tackle; Moore, guard; Price, guard. Above—first row: Macartney, half; Blayney, guard. Second row: Smith, half; Martin, quarter. Third row: Proctor, end; Howton, tackle.

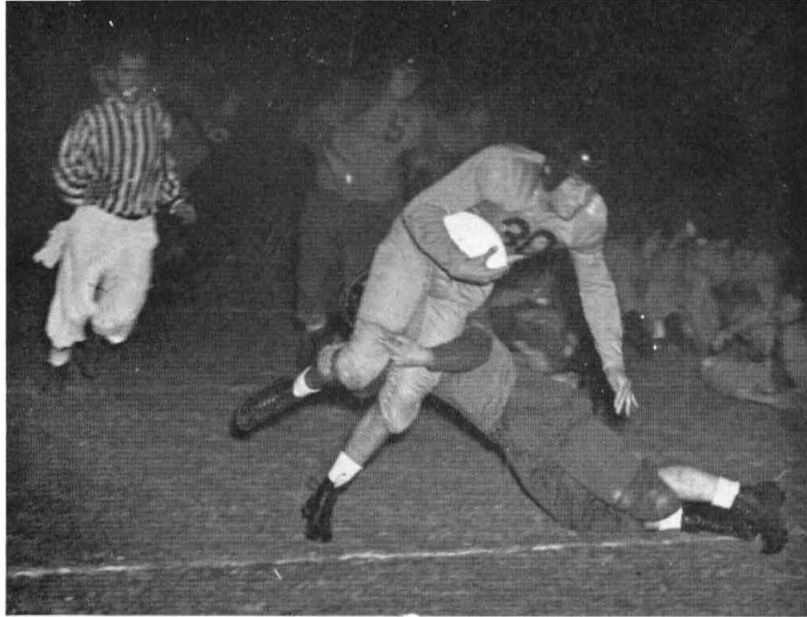


Above: Tommy Elliott breaks into the open in the Oxy game. Right: Elliott scores early in the Pomona game, his first touchdown in varsity competition. Below: Fred Tesche, end, and George Lind, tackle and conversion kicker.



At San Luis Obispo, the Beaver team, after an all-too-short practice season, went down to an inspired Cal Poly eleven 18-0. Taking advantage of Caltech's disintegration after a scoreless first half, the Mustangs obtained revenge for their previous year's defeat as Poly backs slithered through the hapless Tech defense. An early head injury reduced Tommy Elliott's effectiveness and the Beavers' offensive strength.

Football

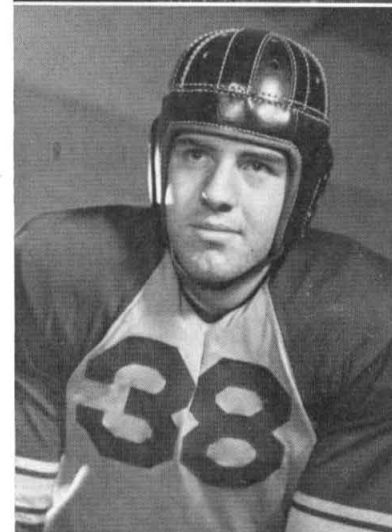
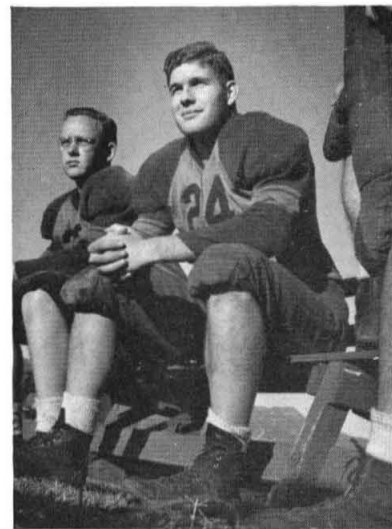


Above left: Diminutive Stew Martin stops Oxy's Jennings. Center: Macartney in the open with perfect interference. Below: Bruno Pilorz and Chuck McDougall, fullbacks.

After a week of strenuous drill to increase offensive strength, the Caltech eleven met La Verne for the second game of the season. The hapless La Verneites were completely trampled and subdued to the tune of 15-0. Early in the second quarter Hank Roese raced through the entire La Verne squad to make the first score. Not to be outdone in the second half, speedball Macartney took a reverse and rambled 46 yards to a touchdown. The true power of Tech was shown by the fact that the second team saw most of the action during the second half.

After breaking into the win column, Caltech met their crosstown traditional rivals, Oxy. The Tigers turned on the heat, and the Beavers seemed to melt. Oxy's superior air attack and an unusually good offense ran up a score of 25-0.

The Whittier game seemed to be a repetition of the Oxy debacle. The Beavers did not lack spirit but seemed unable to gather the necessary winning punch. Coach Fox Stanton substituted many times attempting to discover a strong defensive combination, but to no avail. The Poets scored easily and squelched the Beavers 25-0.



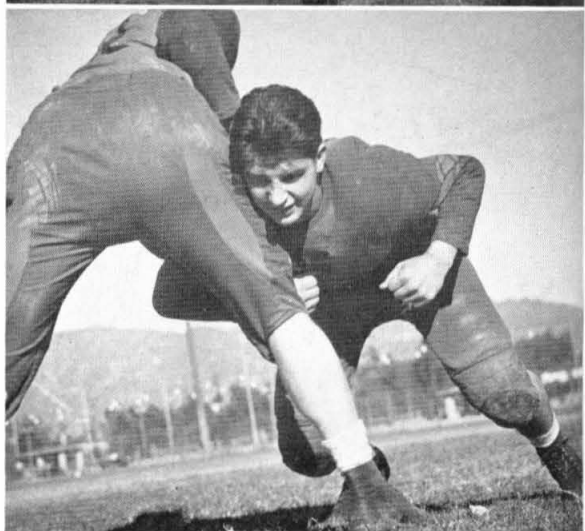
Action

Two different Beaver teams met Redlands the next week at the Rose Bowl. The first allowed itself to be pushed all over the field and left the field with the half time score 27-0 against them. Returning in the second half, led by "Jungle" Jim Smith, the Beavers completely reversed form, forcing the play and scoring once while holding the Bulldogs scoreless.

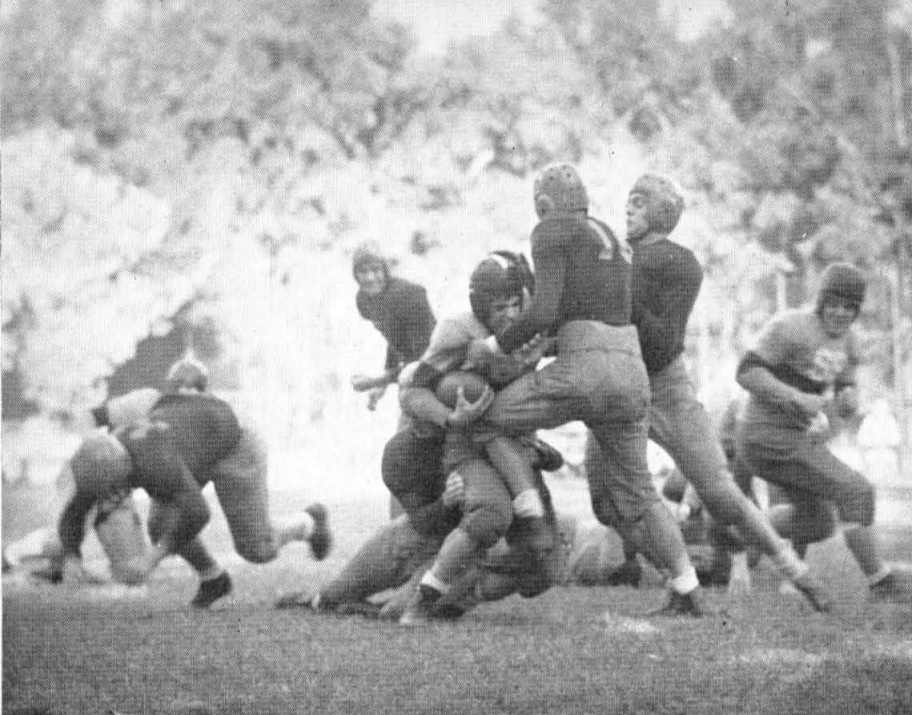
Riding on the crest of the Redlands second half, an inspired Beaver aggregation completely stifled Pomona hopes by rushing the Pomona line off its feet. Tommy Elliott's first period touchdown gave the Beavers something to work on, and the team sewed it up with Pilorz's plunge after another Jim Smith drive in the final quarter.

A relapse after Pomona saw the Beavers drop the season's finale to San Diego, 44-6.

Left: John McClain, co-captain and end. Right—top to bottom: George Griffith, guard, Don Pritchard, quarter, and Jess Graner, guard.



Varsity



Frosh

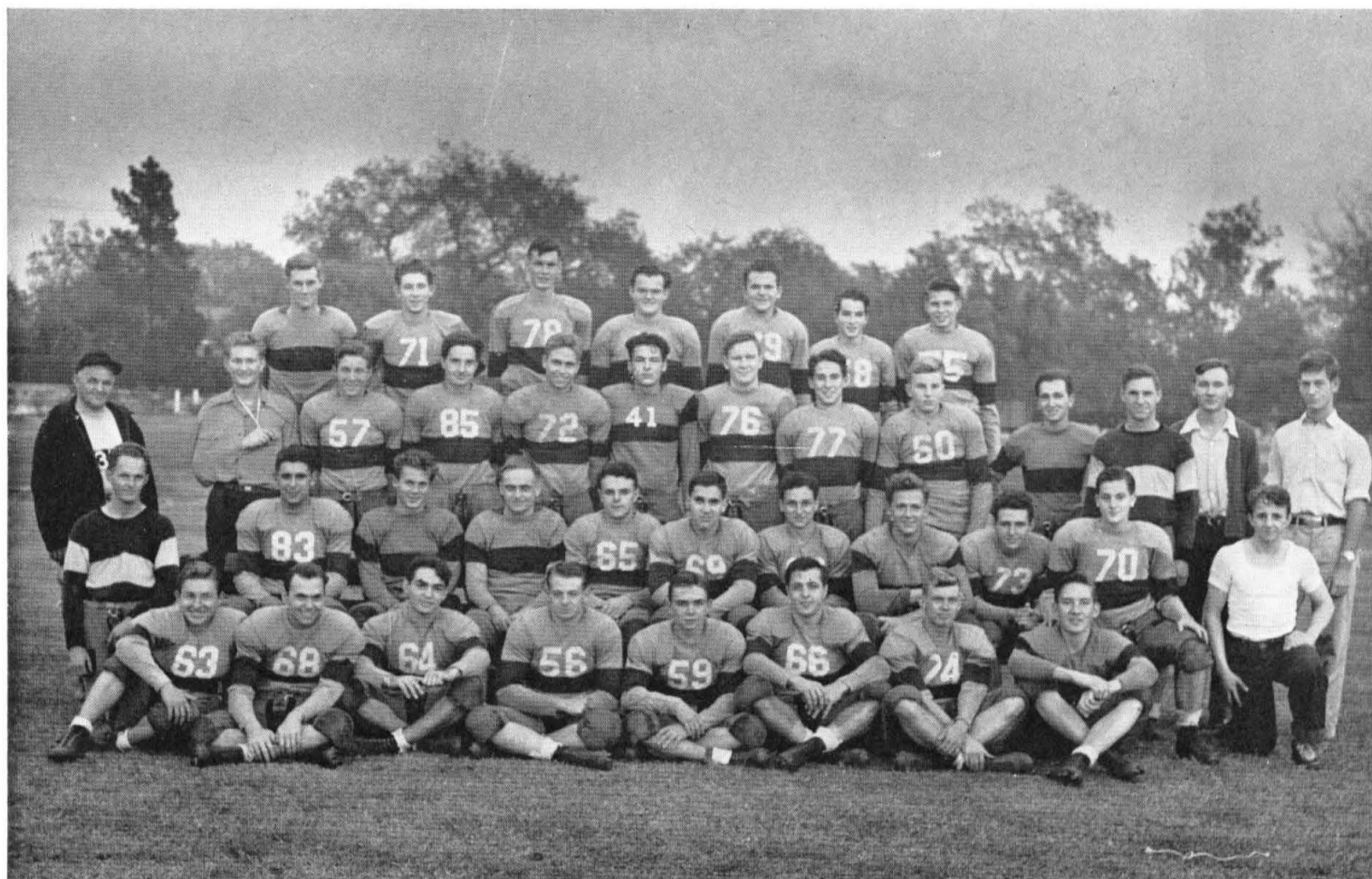
Handicapped by lack of experience and weight, the grey-jerseyed frosh football team lost two games, tied one, and won one. In every game the light but hard charging line was outweighed by more than twenty pounds and could not open holes consistently.

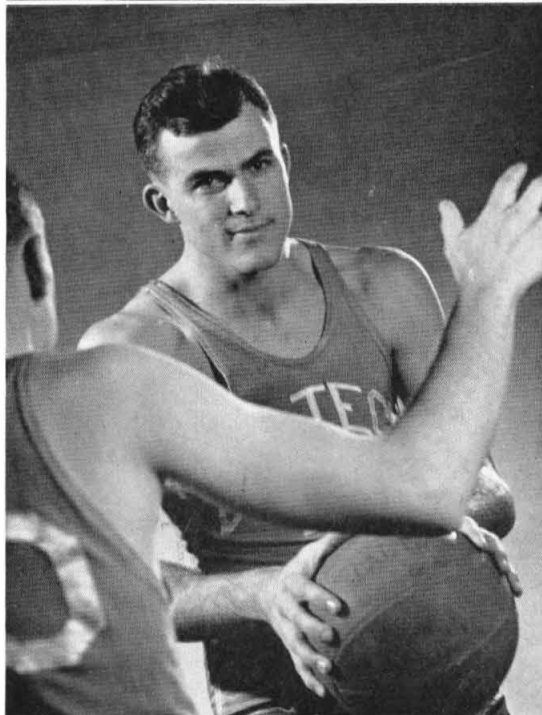
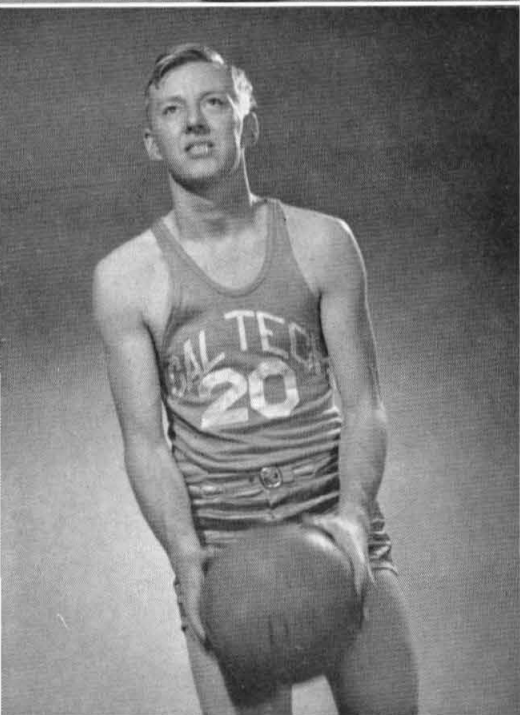
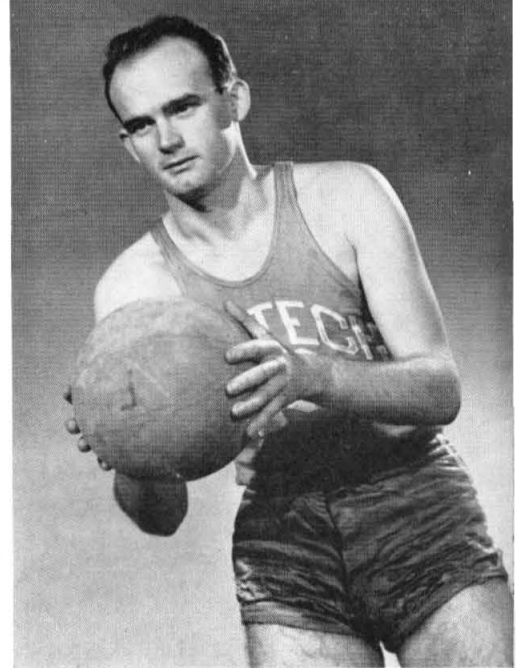
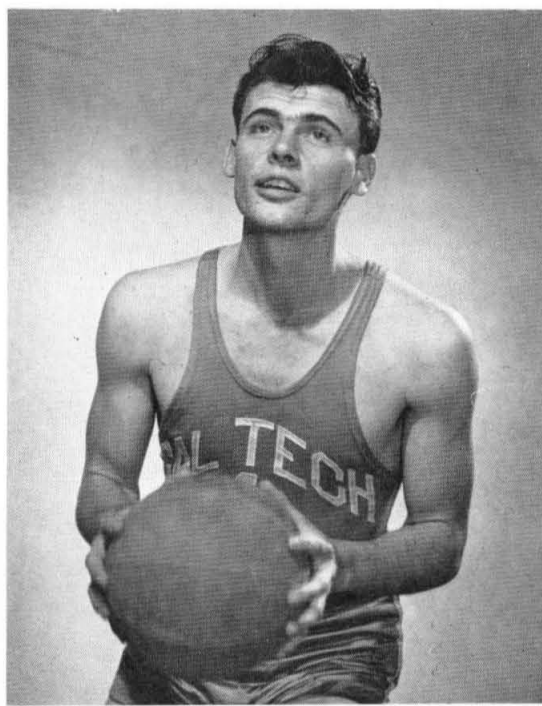
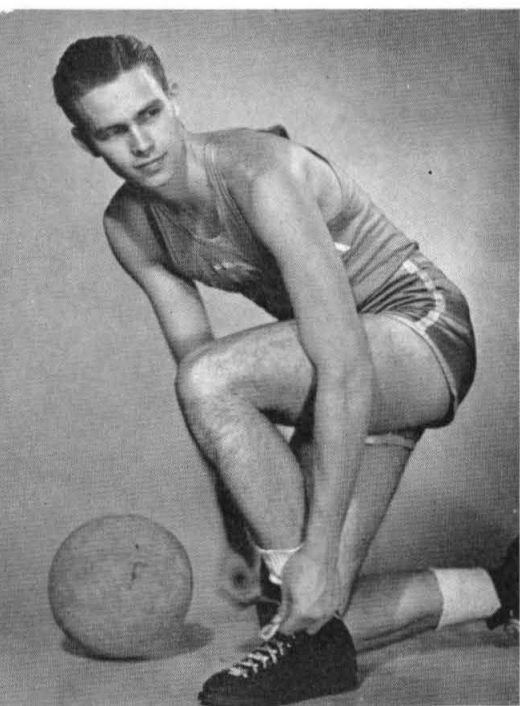
The backfield was handicapped even before the first game by injuries to two blocking backs, Laabs and Spainhower, and throughout the season suffered from their absence. Outstanding on the line was Neville Long, guard, while Tommy Carter and Alan Brooks, backs, furnished a potent running attack.

In the first game of the season the frosh were overwhelmed by a strong Occidental eleven, 41-0. In the next game with Redlands the team showed new spirit in winning 7-2. The frosh then bowed to a stronger Pomona team, 14-0. The final game of the season against Webb ended in a 7-7 deadlock.

At the end of the season Tommy Carter and Neville Long were elected co-captains.

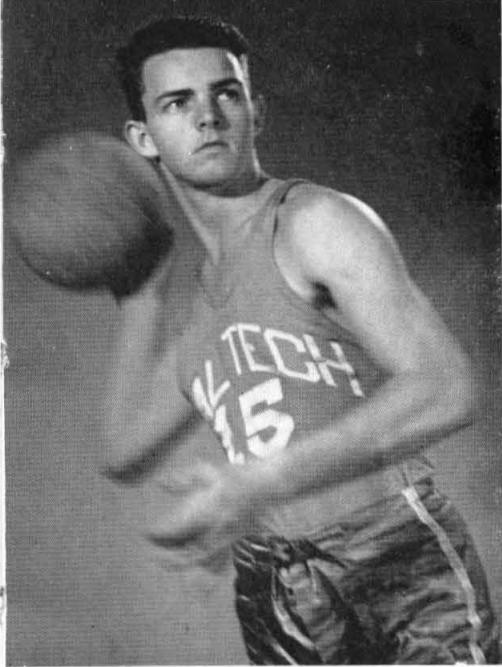
Front row: Walker, Freeman, Mitchell, Co-captains Long and Carter, Brooks, George Stone, Ordway. *Second row:* Bob Cooper, assistant coach, Schetne, Storey, Brady, Laabs, Boutelle, Rypinski, King, Hine, Norsworthy, Gnaedinger, manager. *Third row:* Coach Cooper, Spainhower, Roberts, Sadler, Hunter, Jasper, Cooke, Klachn, Mars, Margaretten, Clay Smith, assistant coach, Jopson, manager, Sloane, manager. *Top row:* Schuyler, Davis, Tasker, Ridenour, Wheeler, Lockwood, Dameson.





Far left: Louis Gowans, center, and Chuck Strickland, guard. Center: Chapman, center, and Andrews, forward. Above: Captain Albrecht, guard, and Bill Fair, guard. Right—seated: Fair, Coach Shy, Seed, Kendall, Hodder. Standing: Strickland, Captain Albrecht, Graham, Andrews, Chapman, Lester, Gowans.

Basketball



The 1942 season marked a milestone for Caltech basketball, producing the most outstanding team in many years. Under the leadership of Coach Carl Shy, former Olympic star, the team was molded into a playing unit which ended the season with four wins and four losses and a tie with Occidental for third place in the conference.

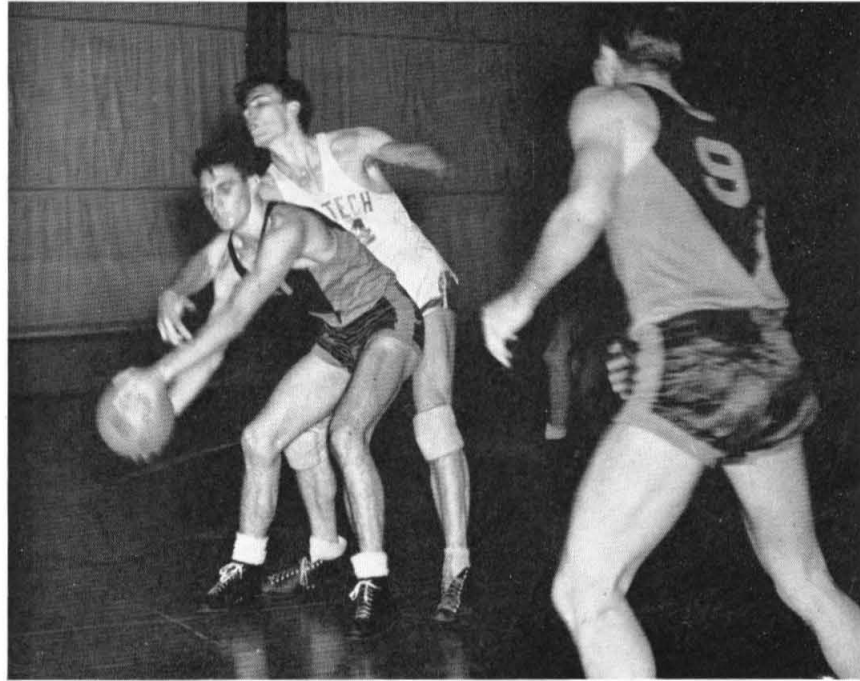
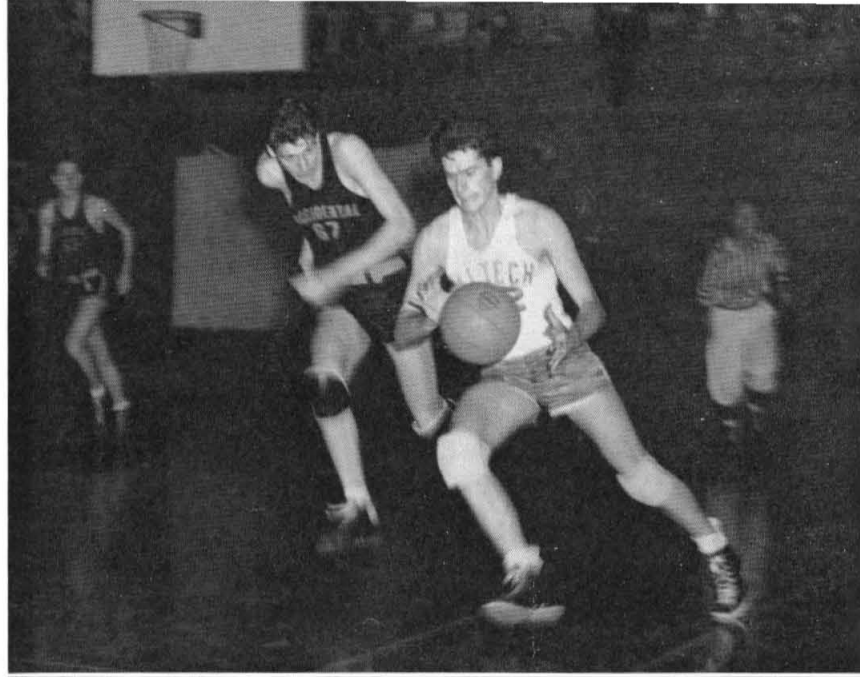
Outstanding player on the team was Dean Chapman, center. Chapman led the conference scoring with a 18.9 point average per game, and he was selected as all-conference center. His scoring average proved the highest in Southern California circuit in recent years. The regulars who completed the Tech lineup were: Tway Andrews, Hewitt Graham, George Kendall, forwards; Bill Fair, Al Albrecht, Charles Strickland, Harry Moore, guards. Al Albrecht, mainstay on defense, who played his last year for Tech, led the team through the season as captain. At the last game the squad elected Dean Chapman and Bill Fair as co-captains for next year.



Tech opened the conference season by traveling to Pomona. The Engineers started fast and led by 12 points at the half. However, the team relaxed in the second half and had to stop a Pomona rally to win 46-45.

The next tilt took place at Pasadena J. C. gym with Caltech meeting the conference champions, Whittier. The Poets seemed to have a horseshoe whenever they played the Engineers. This game was hard fought from start to finish.

With three seconds to go, the score was tied at 34 all, when a foul was called on Caltech. The Whittier man sank his shot as the crowd held its breath; Whittier 35, Tech 34.



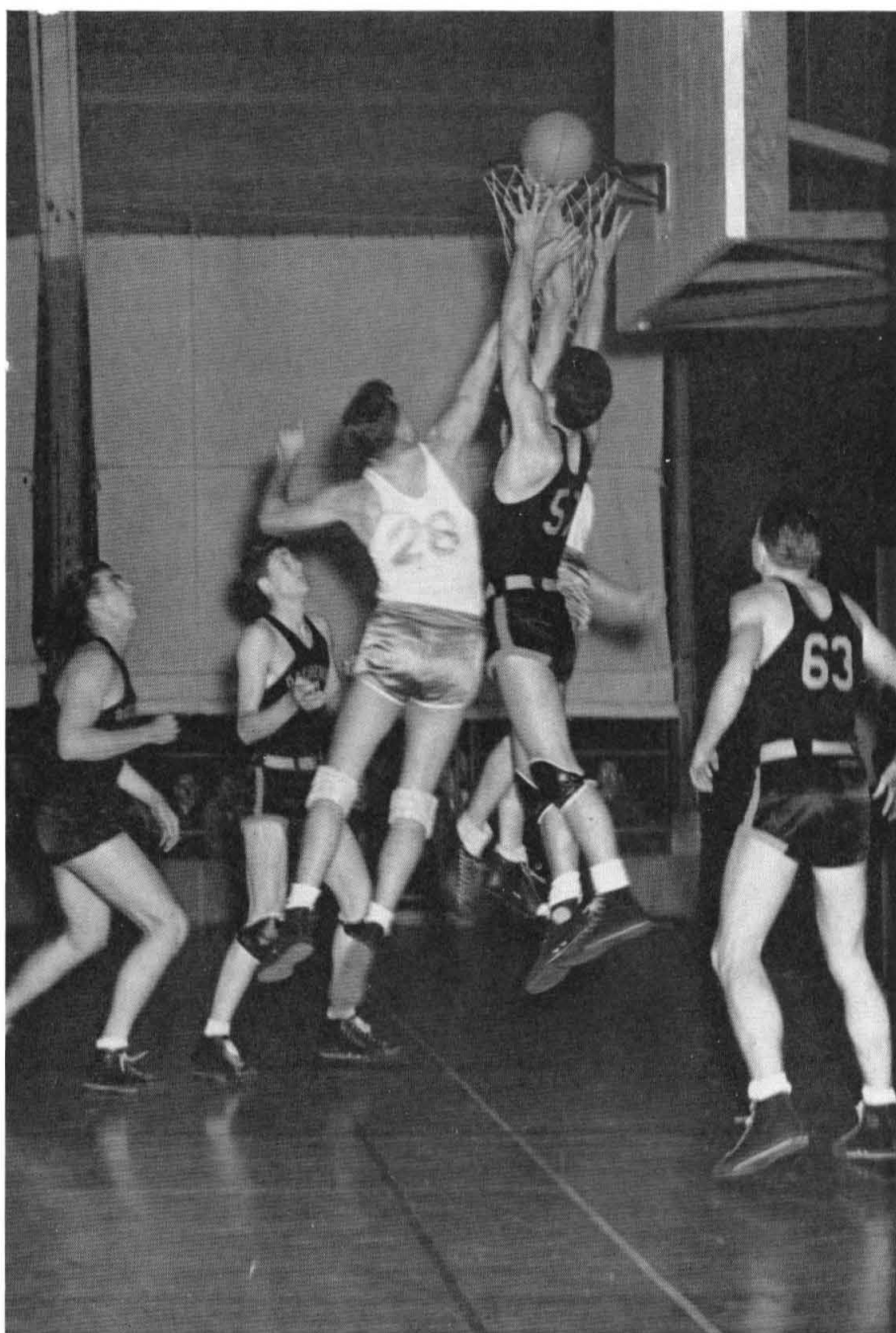
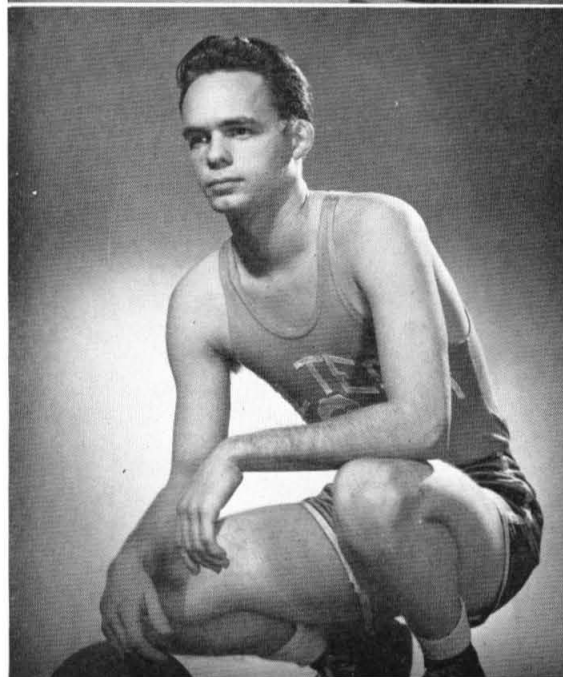
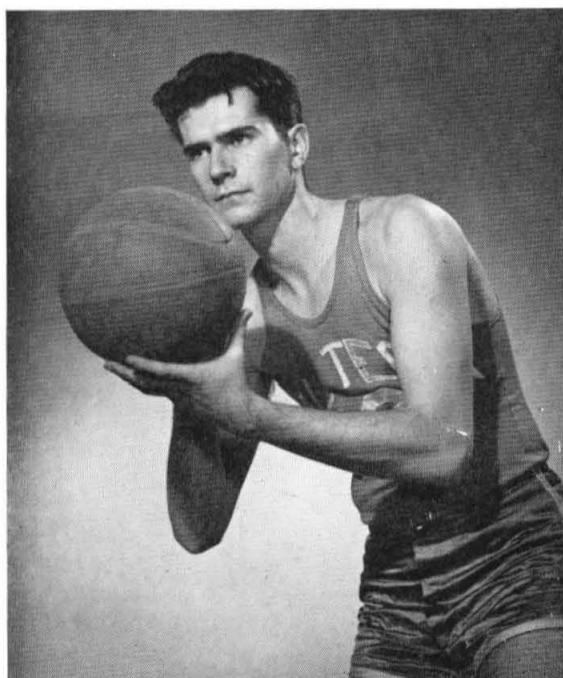
Above: Kendall dribbles past an Oxy man.
Center: Chapman after the ball. Left:
Fair retrieves the ball. Right: George Ken-
dall, forward, and Dave Shoner, forward.
Far right: Up in the air!

Basketball Action

The next week found Caltech falling short on a last half rally to be stopped by the Redlands Bulldogs, 51-48.

Then they made ready for the big game with Oxy. With the gym packed to capacity and part of the crowd sitting outside in the open air, the teams took the floor. For 58 minutes they fought it out on even terms. During the last 10 minutes the lead changed hands a dozen times with never more than two points difference. With one minute to go Tech gained the advantage and the score ended 45-42 in their favor. This Caltech victory over Occidental was the first in many years.

The Engineers started the second round by dropping a close game to Whittier 54-52 in an overtime. The score was tied at 48 all at the end of the regular time period.



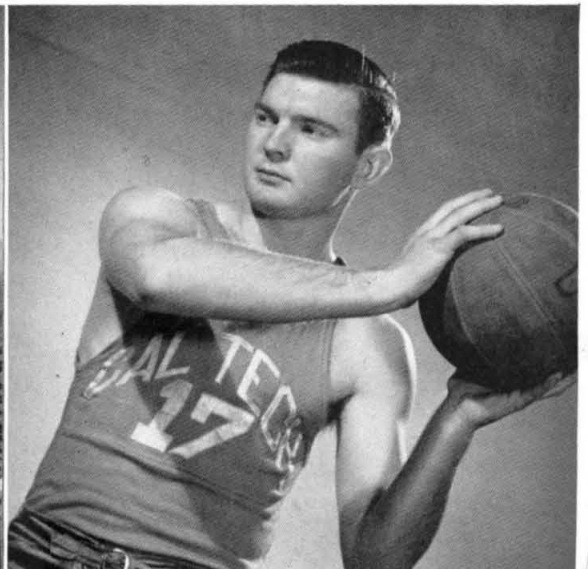
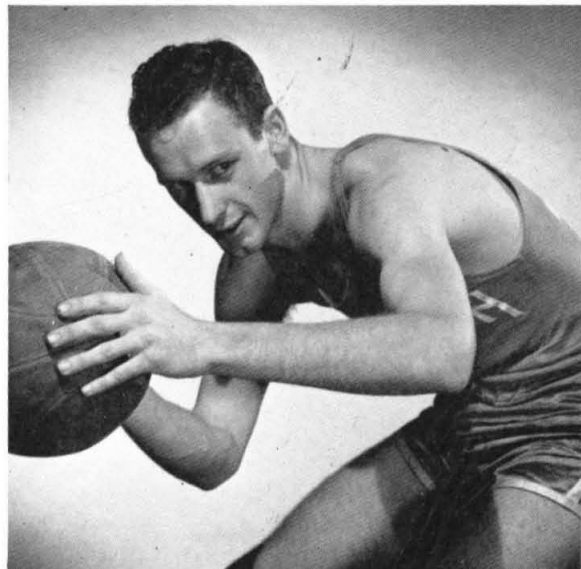


Varsity

Playing without the services of Dean Chapman, who was injured in the Whittier game, Caltech suffered their worst setback at Occidental, losing 41-52.

The Engineers then went to work in earnest by winning from Pomona 59-45 and Redlands 63-55 in two final games.

Above: Andrews outjumps them all.
 Right: Hewitt Graham, forward,
 and Harry Moore, guard.



Front row: Bloom, Lockwood, co-captain; Jopson, Laabs, Hine, Malone, co-captain; Schetne. Back row: Brady, manager; Lestmann, Greenwood, Austin, Pastoriza, Stokely, Bate.



Potentially stronger than shown by its record, the small, fast Beaverbabe basketball squad was unable to live up to pre-season promise this year. Lack of consistent accurate shooting showed their inability to overcome the great handicap of having to practice four miles away from campus. A large portion of the credit for whatever success the team may have had is due to Paul Ackerman, new Caltech "Y" secretary, who did an able job of coaching.

The season opened with a 51-25 defeat at the hands of the Whittier frosh. Journeying to Webb School, the team lost a slow game, 26-16. This contest first showed the lack of backboard control which later characterized too many games. After defeating La Verne, 57-52, the frosh dropped a heart-breaker to Oxy, 36-29. The record for the rest of the season was downhill.

After Redlands suffered a trouncing, 58-26, with all Tech hands being in on the scoring, Whittier won by maintaining a close margin throughout the game. Oxy, taking advantage of the cold-ridden freshmen, overwhelmed them by a score of 52-25. The season wound up with losses to Pomona, 57-55, and Redlands, 52-54, placing the Beaverbabes in a tie with Redlands for the cellar position in the league. Bill Lockwood, heady guard, and Jim Malone, high-scoring forward, were voted co-captains at the close of the season.

Frosh Hoopmen

Track Champions

Densmore and Jenings, Oxy, in the photo finish of the conference half mile. This amazing shot, taken by Progress-Bulletin's sports photographer, Dave Meiklejohn, was acclaimed "The track picture of the year" by R. H. Strobel, chief of the Associated Press Photo Service. It appeared in all AP papers from coast to coast as well as the May 4 edition of *Life*. Jenings attempted to beat Densmore by diving at the tape, clamping his teeth down on the tape as Densmore ran through standing up to win. The time was 2:5.0.





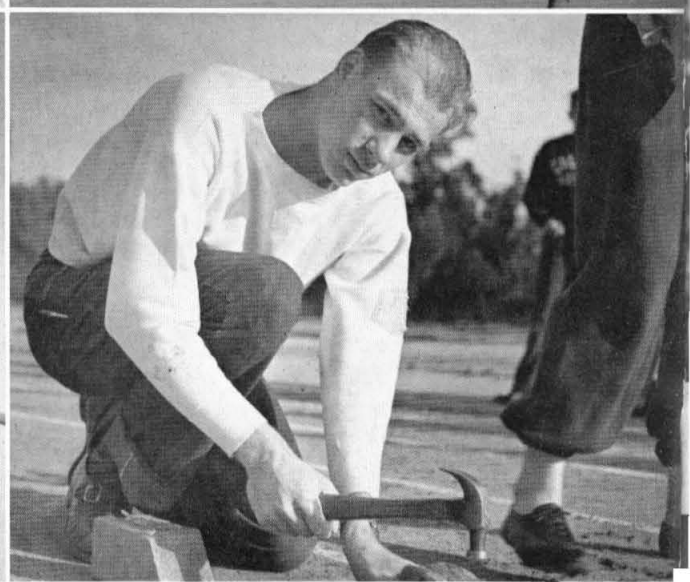
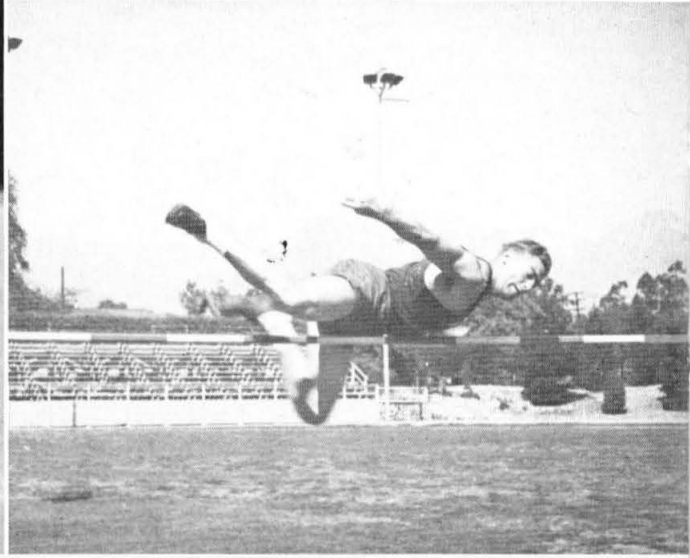
The surprise win of the College Relays. Grey-clad Dwain Bowen came up from nowhere to beat off the Pomona man and finally overtake Jennings of Oxy in this thrilling finish of the 880 sprint relay. Photo by H. Lee Hansen.

After an absence of 16 years, the conference track championship was returned to Tech by the powerful track squad. It was the first track title since 1926, the first major sport title since 1951.

Favored Occidental was defeated 71-60 in the hotly contested final meet, a fitting tribute to Coach Fox Stanton on the advent of his last meet.

Ken Schureman started the afternoon of upsets by winning the high hurdles, defeating the highly favored Odell of Oxy.

George Dall kept the ball rolling by winning the mile. Bill Lundy and Mel Merrit completed the trio that made a clean sweep of the event. George also won the two mile.



Left: Schureman and Gillette lead one-two in the hurdles.
 Above-left, top to bottom: Doug Reid; Densmore nips Stu
 Bruce of Pomona in a photo finish; Ray Saplis. Above, right:
 Tom Elliott, John Prendergast, Manager John Brockman.
 Right-above: "Squeak" Gillette, Mel Merritt, John Adams,
 George Dall. Below: Tom Elliott, Captain George Lind, Ralph
 Willitts, Chuck McDougall (the "Tech Scot").

Track Champions

Dwain Bowen coasted to an easy win in the quarter mile, touring his lap in 50.1 sec.

Warren Gillette won the 220 yard low hurdles, finishing with only one shoe, to completely avenge the photo finish defeat handed him in the conference meet by Odell of Oxy.

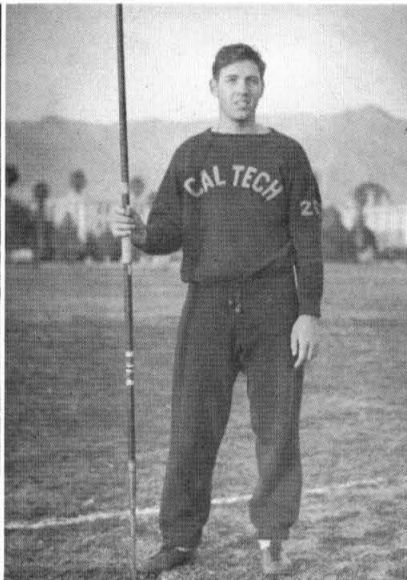
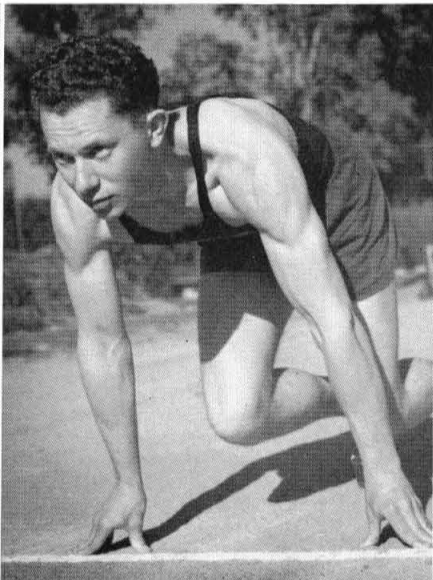
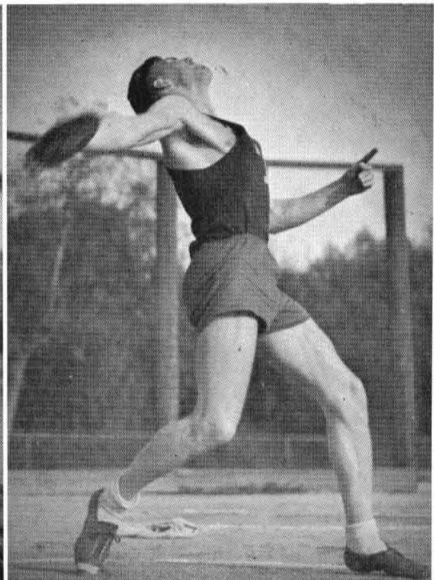
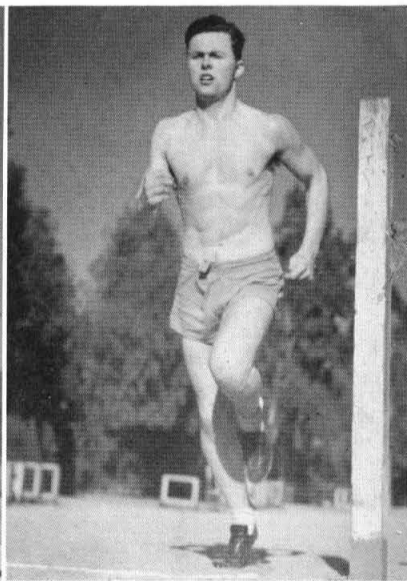
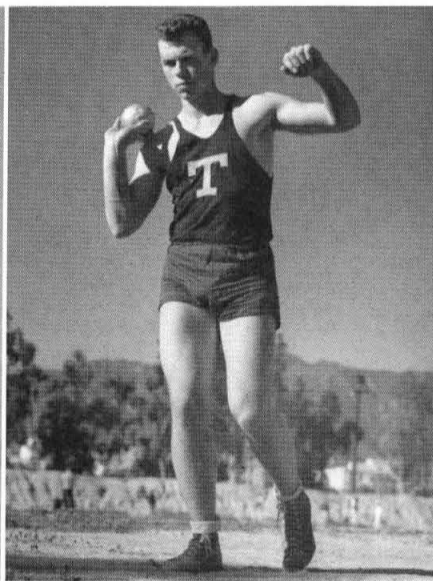
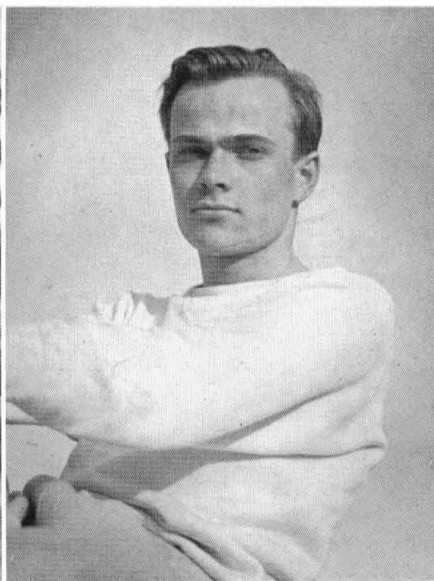
Captain George "Junior" Lind making the best mark of his career, threw the discus 135½ feet, winning that event. He also placed third in the shot put.

The Beaver high jumpers tied for first place; Al Saplis, Tommy Elliott, and Bob McLean nosing out all competition.

The climax of the meet was the crucial javelin throw. Tech led 60-57, but Oxy was favored in the relay. Jim Smith led at the close of the preliminaries, only to have Oxy's Polkinghorn inch ahead. Then, breathing stopped, as the crowd waited for Chuck McDougall's final throw to land quivering, seven feet to the good, giving Tech the necessary six points.

Just to conclude the afternoon, the relay team ran an inspired race, winning in its best time of the season.

The final score was 71-60.





Schureman and Gillette lead the field.

Varsity

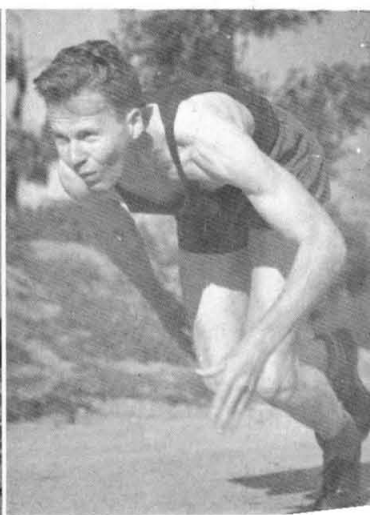
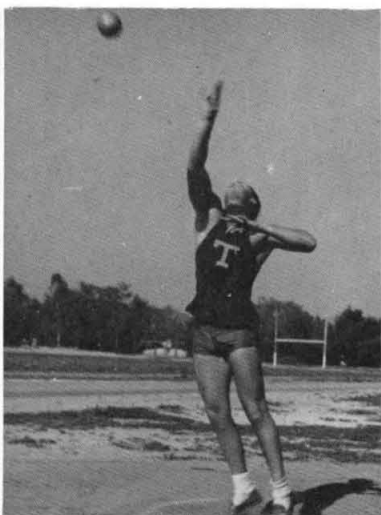
In the Conference Meet, held at Pomona, the Beavers hounded by upsets, placed third. Oxy won, 52; Pomona, 41; Tech 40½.

Bob Densmore turned in the outstanding race of the day, winning the 880. Jennings of Oxy followed Bob for the whole race, attempting to win at the tape, but Bob won in 2:05 with a photo finish that was seen in Life and the New York Times.

In the two mile, George Dall and Mike Zuniga of Pomona jockeyed for the lead, but George, with a beautiful sprint, won with a safe margin. The time was 10:58.

Captain Junior Lind won the discus easily with a toss of 128½ feet. He was fourth in the shot.

Other Techmen adding points to the total were Bowen, Gillette, Lundy, Saplis, McLean, Prendergast, McDougall, Adams, Elliott and Harland.



Above: Jim Smith, Francis Odell, Bill Lundy.
Below: Bill Harland, Franklin Booth, Al Grote.

Front: Sameshima, Dall, Lundy, Smith, Adams, Potts, Schureman, Rea, Saplis, Densmore.

Behind: Coach Stanton, Nevis, Grote, Reid, McLean, Gillette, Lind, Willitts, Odell, Parks, Prendergast, Wilkinson, manager.



In a double dual meet held on Paddock field, the Beavers defeated both Redlands and Whittier. The meet score was Tech 101; Redlands, 52½; Whittier 28½. Dwain Bowen was high point man of the day, scoring twelve points. The Engineers won ten of the events, running in the mud.

The following week, the mighty Beaver squad clawed Pomona 74-57. The Engineers field men covered themselves with glory, winning every event. Among these winners were Captain "Junior" Lind, Otis Booth, Bob McLean, Jim Smith, Al Saplis and John Adams.

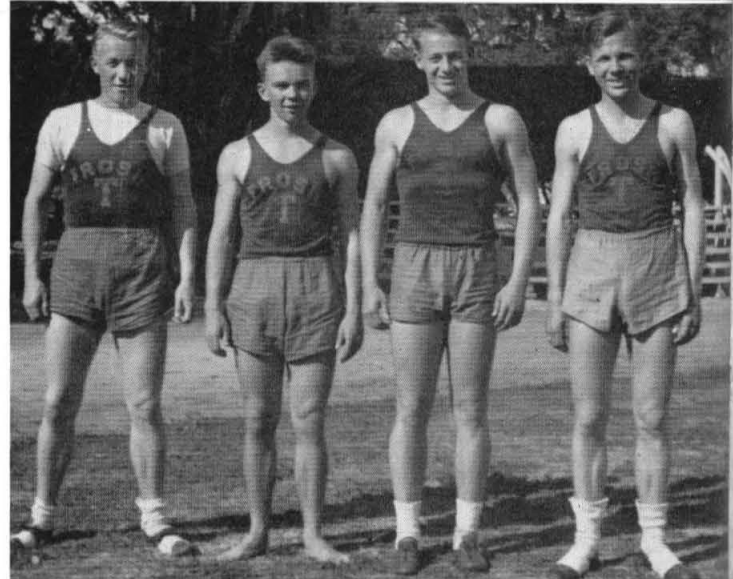
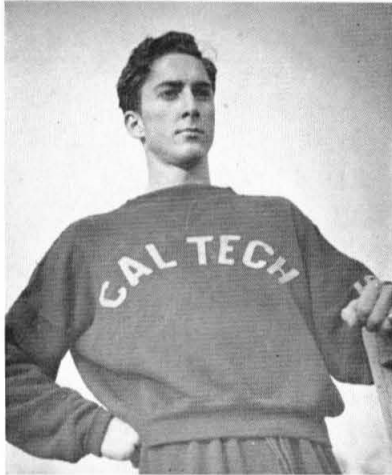
In the pre-season College Relays, Tech (24) beat Oxy (18) and Pomona (11). Tech won the novice mile relay and placed second in the medley relay. Dwain Bowen, running anchor in the 880 sprint relay, fought off the Pomona man, and nipped Oxy's Jennings to win 1:51.8.

The Frosh won the distance medley for the third time, retiring the trophy to Tech.

Track Champions



Everett Rea, Don Potts, Ken Schureman, Bob McLean.



Varsity



Standing: Coach Clay Smith, Long, Van Voorhees, Atchison, Storey, McLain, Tasker, Pastoriza. Front: Fisher, Carter, Brown, Lesmez, Weidman.

Left—above: Fisher breaks the tape in the half mile. *Center:* The Frosh distance medley team, Brown, Carter, Long, and Fisher, who earned permanent possession of the College Relays cup in that event. *Below:* Tommy Carter, who often bettered varsity sprint times of the same afternoon, finishes far ahead in the hundred.

Placing second in the Conference Dual championship race, the Beaverbabes completed a very successful season. They set two new school records and gained permanent possession of the College Relays Freshman medley relay trophy.

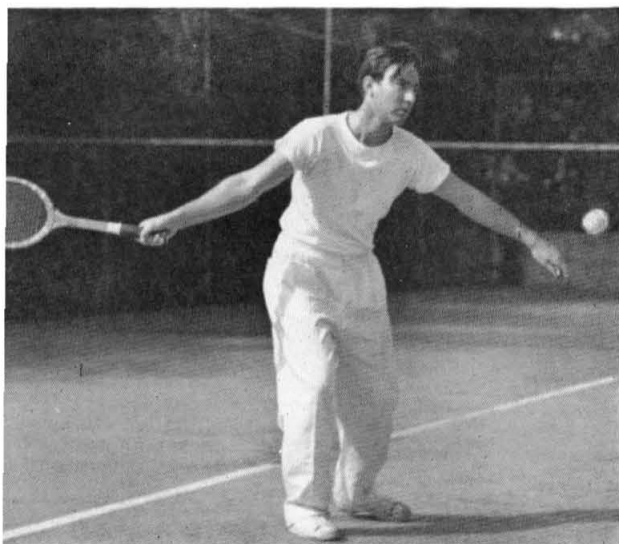
In their first meet with Oxy, they were defeated 61-56. After winning all the rest of their dual meets, they were beaten by Oxy in a very close race for the conference meet.

Outstanding man on the squad was little Tommie Carter. No one beat him in either the 100 or 220 all season. Often he turned in times that were faster than the varsity. He set a new 220 record of 22.2 seconds.

Gene Fisher also set a new school record when he ran the conference 880 in 2:03.6 seconds.

Other sure point winners were Lesmez, Carrol and Van Voorhees in the distances; Brown, Atchison and Adams in the sprints; Pastoriza and Tasker in the high jump; Spainhower and Storey, hurdles; and Neville Long, weights.

Frosh Tracksters

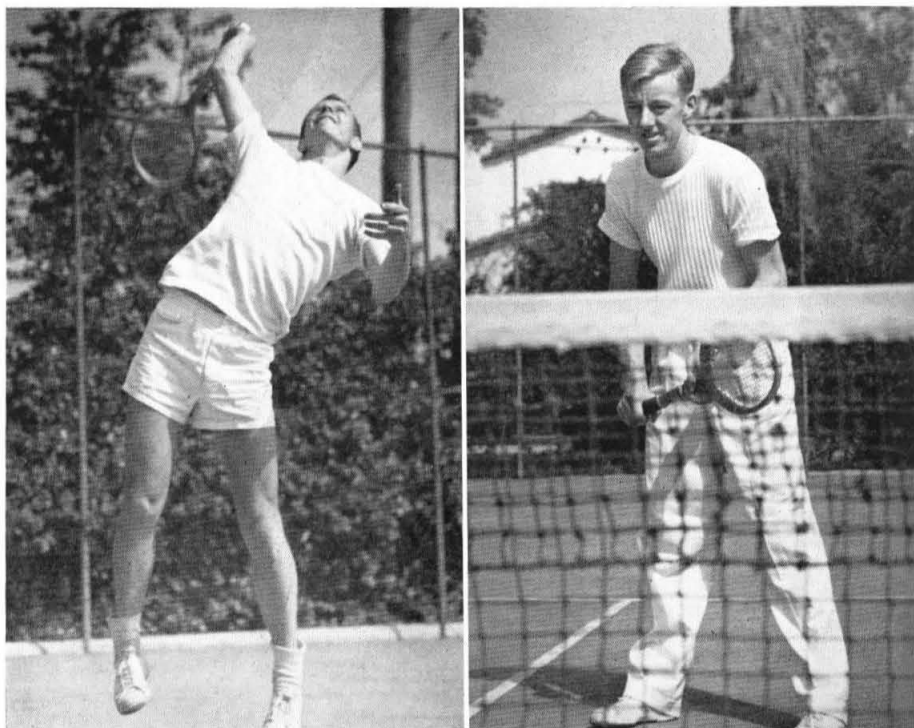


Left: Martin Gayer. Squad—standing: Holtby, Gayer, Neutzel, Captain Strickland, Coach Svendsen. In front: Dimmick, Dazey, Hubay, Bussard. Below: McKibben serves; Captain Strickland plays at the net.



Led by Johnny Dimmick, diminutive first-singles transfer from P. J. C., and captained by Charles Strickland, the new student body president, the varsity tennis squad gained a tie for second in the conference standings. The coach was Norman Svendsen, veteran Tech player.

With blanket wins over Whittier and Oxy, a 6-5 victory from U. C. L. A., and a well-played match with P. J. C. lost 6-5, the squad moved to the top early in the season. But then a close meet went to Pomona 5-4 with seven out of nine matches going to extra sets and everything winding up in less than ten minutes. In quick succession Redlands secured two clean sweeps, although Tech retaliated and defeated Pomona 6-5.

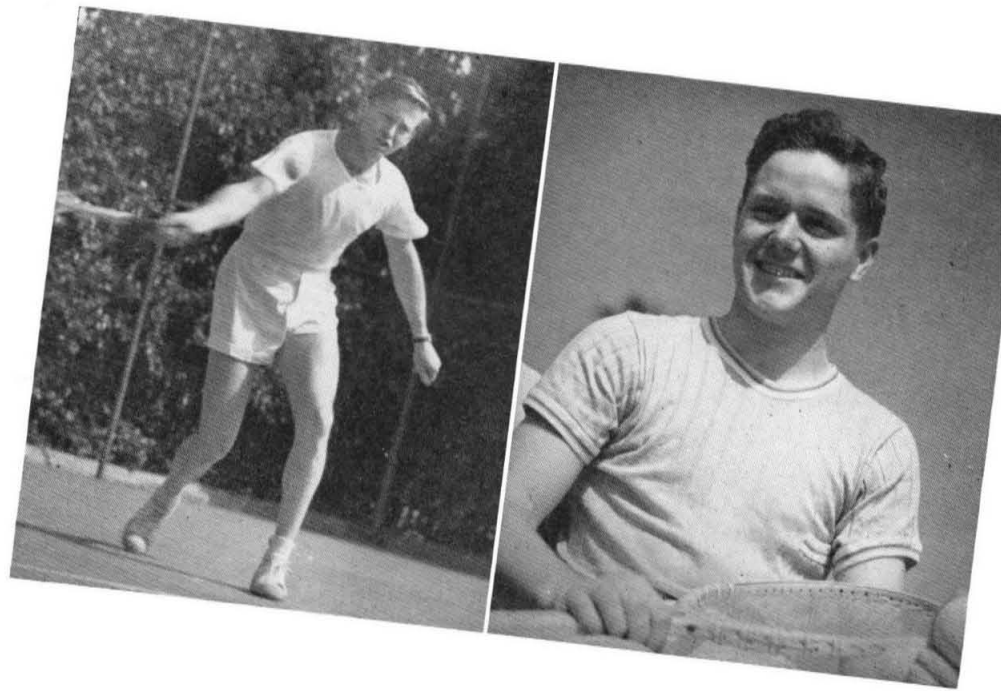


The conference tournament at Pomona May 8 and 9 was a sad story for the Engineers. No one got into the second day of play.

Pomona's badminton, tennis, and ping-pong star, Dave Freeman, again seized the conference singles title. In his last match he defeated Turpin, Redlands, 6-1, 6-1. But in doubles, Pomona's team of Freeman and Dye lost to Redland's Turpin and Rogers by 10-12, 6-2, 7-5 in the final play off.

Tennis

The Scott tennis trophy winner was Johnny Dimmick. Next on the ladder stood Martin Gayer, who with Dimmick usually played first singles. The second doubles team was Sam Madley and Charles Strickland; third, Paul McKibben and Paul Hubay. Graduating players include Gayer, Madley, McKibben, and Pearson.



Left: Sydney Stone and Charles Pearson.

Above: Sam Madley, John Dimmick.

Frosh Netmen

This year's frosh tennis team, though lacking in experience, showed a great deal of enthusiasm in winning half of their conference matches. Under the able tutelage of Coach Norman Svendsen, the players improved steadily throughout the season.

The freshmen were defeated by Occidental, seven matches to two, and failed to win a match from the all-conquering Redlands team. However, they won thrilling 5-4 matches from Pomona on two occasions.

Responsibility for frosh tennis success rested with Ed Eich, Phil Lamson, John Bear, Stan Newman, George Wood, Leonard Abrams, Dean Wanlass, and Joe Mann.



Front row: Bear, Mann, Eich. Standing: Lamson, Newman, Wanlass, Wood, Margaretten, manager.

Frosh Baseball

This year's frosh baseball team stands as an example of what hard work and practice can do. Paul Ackerman began the season with what appeared to be a rather green club. Through rigorous training and much diligence on the part of team and coach, the frosh baseball team rapidly approached the equal of any club in the league.

The season has been characterized by a steady improvement on the part of all hands. Next year's varsity roster will undoubtedly be bolstered somewhat by these hard-driving frosh. Outstanding this year was the battery of Kidder and Klaehn, the fine defensive work of Gene Carroll at short, and Ray Lochhead at second, Lestman's big stick, and the superior batting of Hector Schetne.

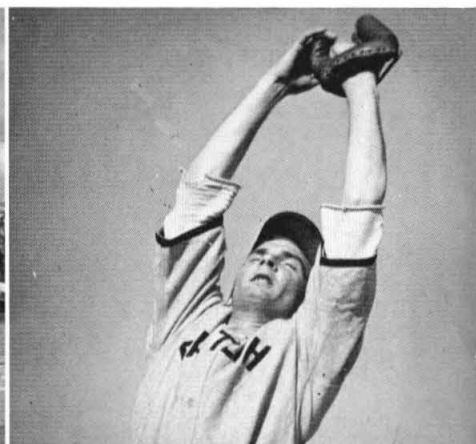


Standing: Coach Ackerman, Honnold, Chadwick, Kidder, Elliott, Carroll, Brady, Mars, Bloom. *Front:* Lestman, Sloane, Schetne, Nicholson, Klaehn, Dameson, Lochhead, Norsworthy, Hurst.

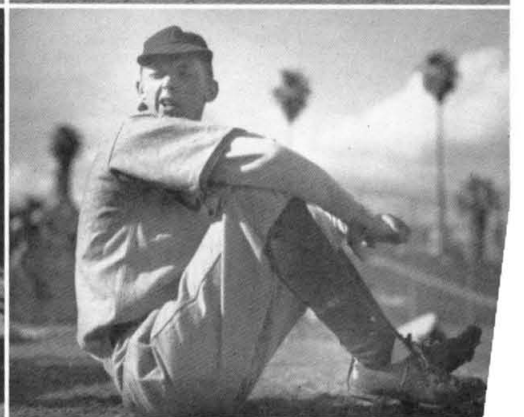


For the first time in many years, Tech is looking forward to winning the Conference Baseball Championship. It has been a long time since a possibility has existed, when the Big T went to press, of nabbing the crown. But this year, with the team only one game behind league-leading Oxy, and hotter than the proverbial fox, chances for the first baseball title in 20 years appear excellent. Coach Musselman's boys have won five out of their last six starts, and bid well to make short work of the final four.

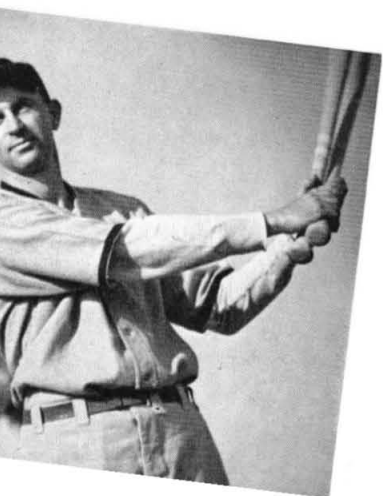
Baseball



Only three returning lettermen, and an apparent absence of pitchers, were among the motley throng of men who greeted Capt. Roese, Coach Musselman, and Assistant Coach Callaway, in the first days of spring practice. The team dwindled to fifteen by the time the season began, but three pseudo-pitchers had emerged. "Huck" Davies has, to date, won five out of his six games, and is the leading hurler in the Conference; Louis Gowans has been less fortunate, winning two out of six, and losing each of the other four by one run margins; Ray Tedrick chucks when the going gets tough, but has no digits in the W-L column.



Top: Through the dugout; Richard Davies delivers.
 Center: Ken Powlesland rounds third for home; Harry Clark lets one go by. Below: Manager Stew Tedrick, relief pitcher.
 Below: Hank Roese stops swinging for a ball; Pat Chase snags a high fly; "Doc" Kremers warms up.



Front row: Anderson, Kremers, Davies, Roesse, Powlesland, Frost, Coach Musselman. Standing: Assistant Coach Callaway, Chase, Soike, Hall, Clark, Mason, Larson, Gowans, Tedrick, Manager Davis.



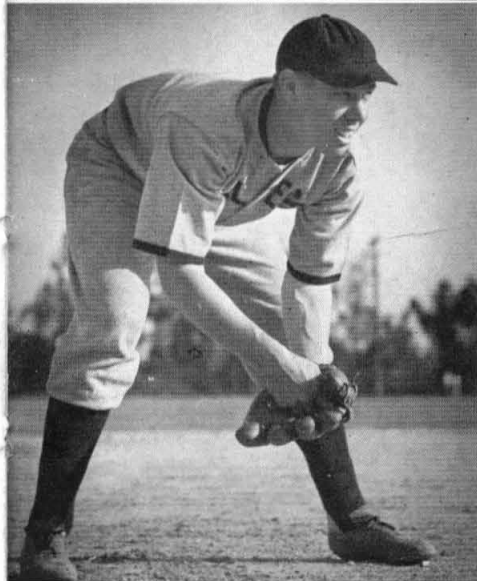
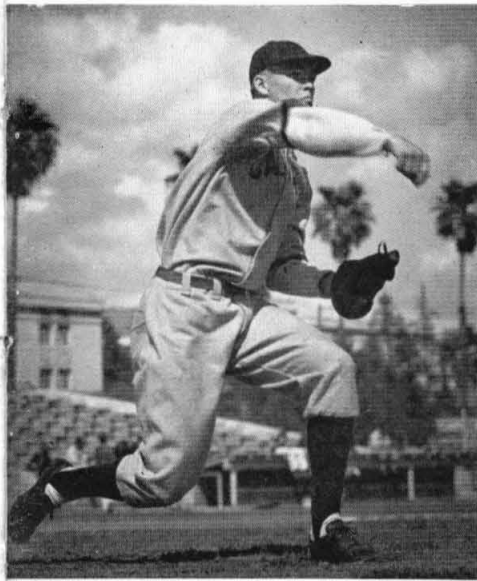
Tech's batting prowess is shown by its total of 111 runs in Conference games against opponents' 70. The hitting capacity is not evident from the percentage column, but the rest of the Conference will attest as to its timeliness. Capt. Hank Roesse is the "big-stick" of the team and is batting a cool .410. "Ace" Anderson is clipping off a neat .595. "Doc" Kremers, Gowans, and Pat Chase are the only other regulars above the .500 mark. Roesse, Anderson, and Kremers have added 51 extra bases onto their 45 safeties.

The season opened March 29 at Pomona with the Beaver waxing the Sagehen in the opener to the tune of 19-8, but losing the second tilt on errors, 8-9. The following Saturday, on the local diamond, Tech took Whittier into camp for the first time in 8 years, by a 6-1 score, but again dropped the second game 8-9. In this first game, Capt. Roesse was hit by the bat while catching, and was laid up for a couple of weeks. The thought of their captain with a radio at his bedside proved insufficient stimulus for the Tech nine as they dropped a double-header to Oxy, 0-2 and 4-5.

Baseball

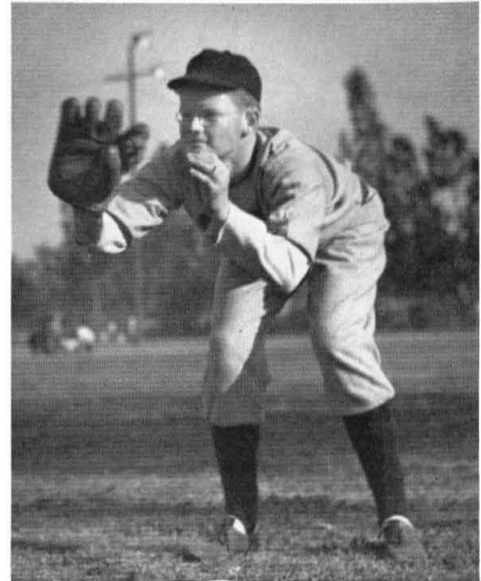
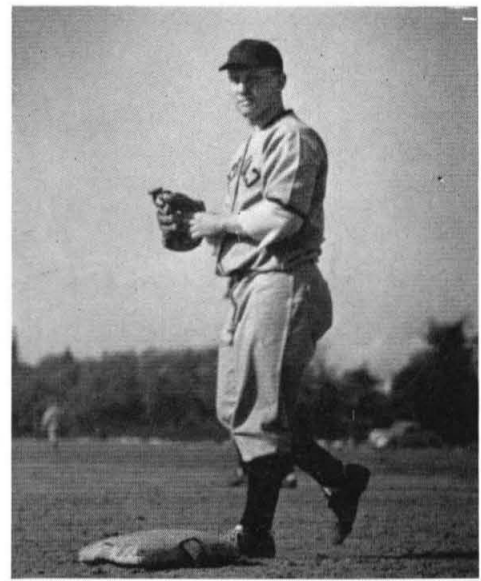
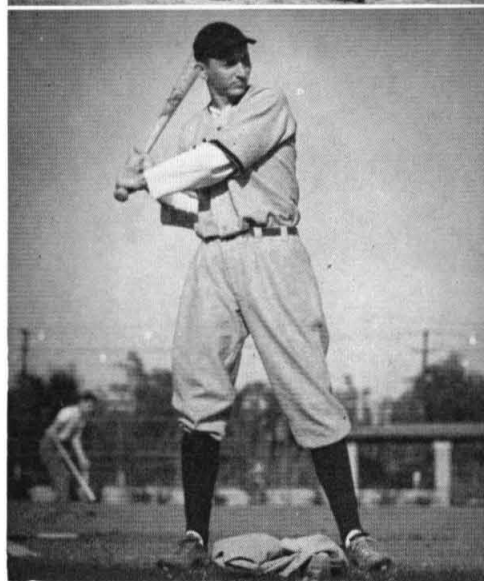
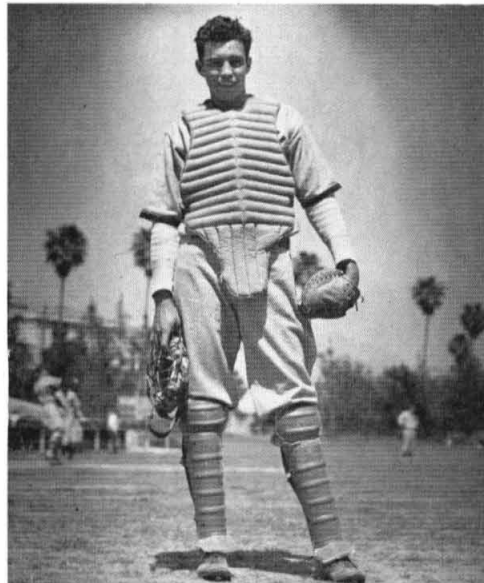
That proved to be the end of ragged playing, as the locals, in rapid succession, took Pomona 5-4 and 12-1; then Whittier 14-8 and 5-6; and toppled Redlands out of first spot 17-6 and 15-11.

Lineup for the year has seen Davies and Gowans alternating between mound and field; "Curly" Meyer heckling from behind the plate; Capt. Roesse covering first-base after his injury; Powlesland and Anderson at second and short, respectively; Bob Frost at the hot corner; Kremers and Chase in the pasture; and Larson, Clark, Mason, and Tedrick as utility men.



Louis Gowans, pitcher, Jack Anderson, shortstop.

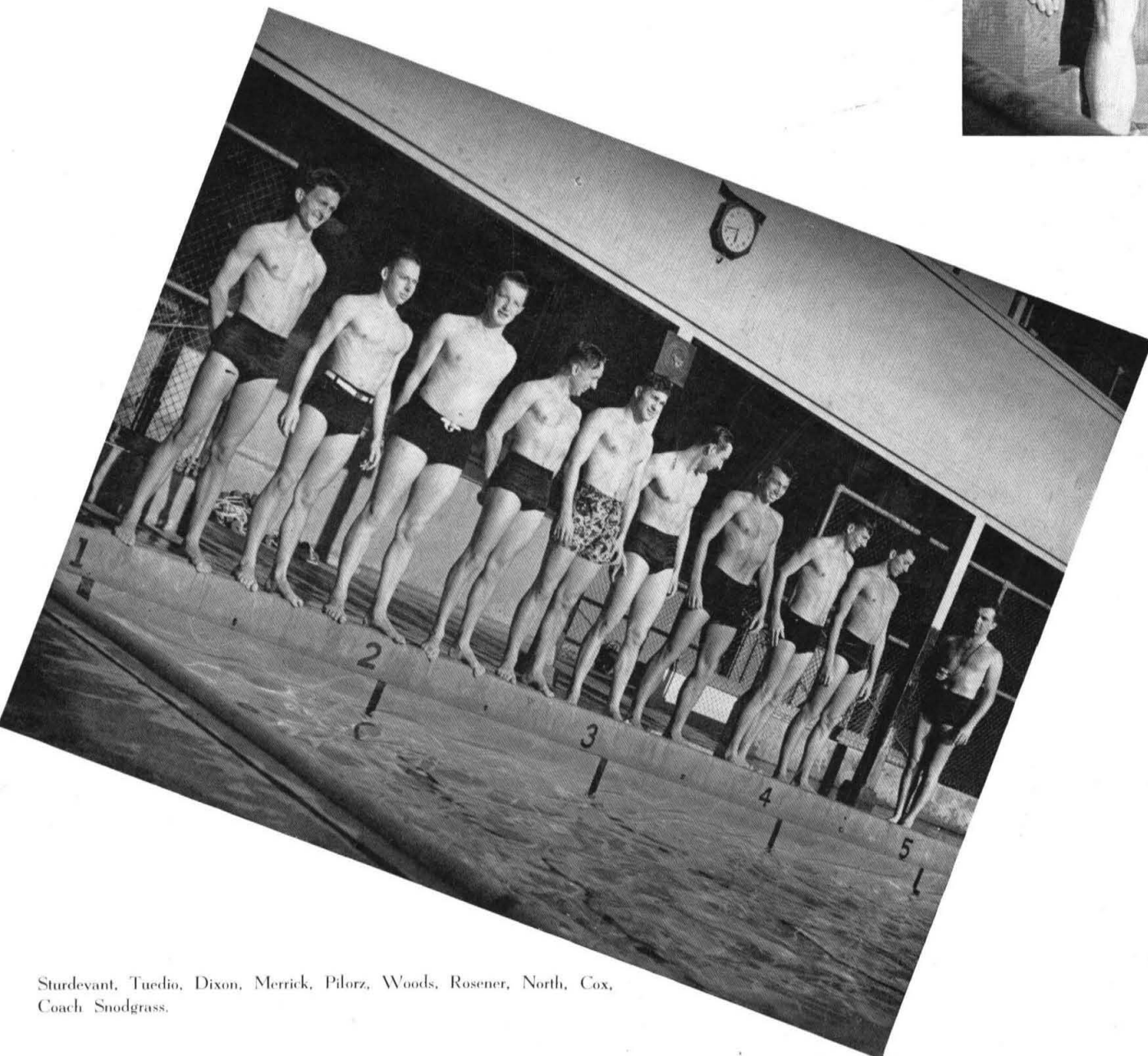
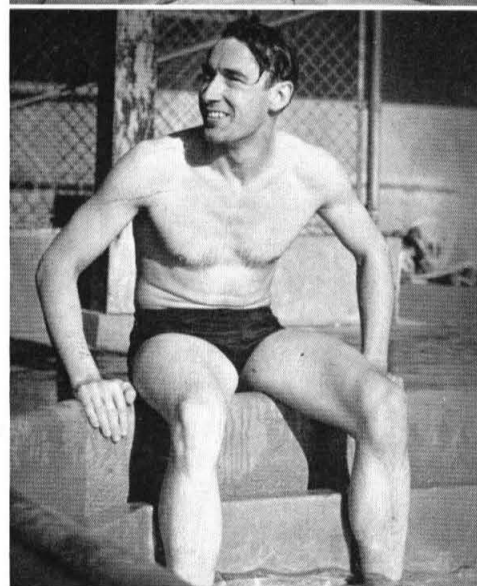
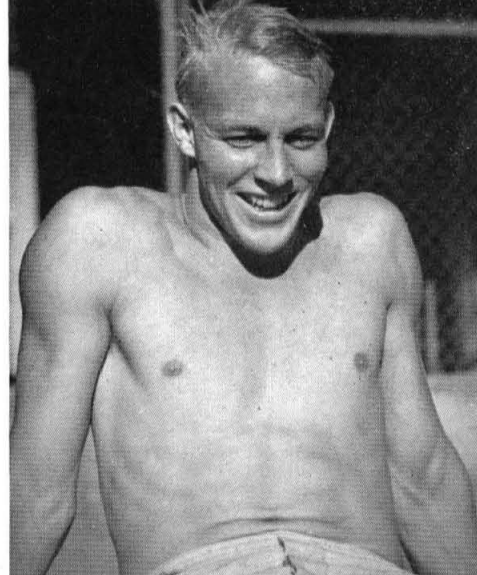
George Meyer, catcher, Erwin Larson, first base.



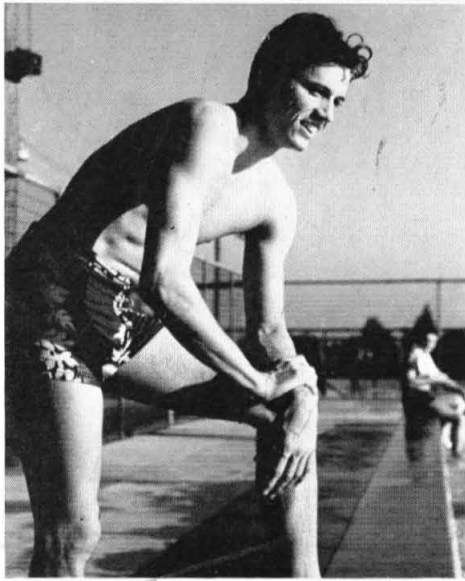
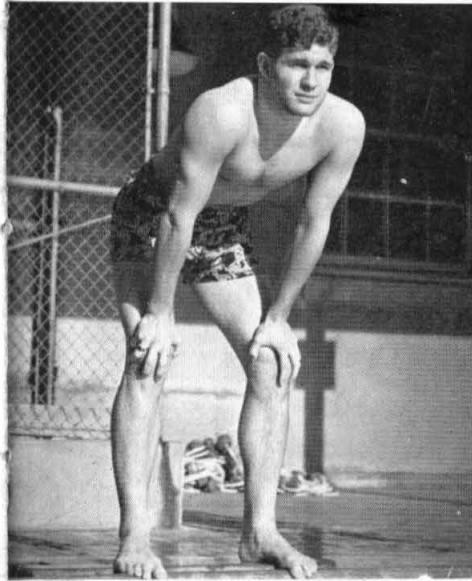
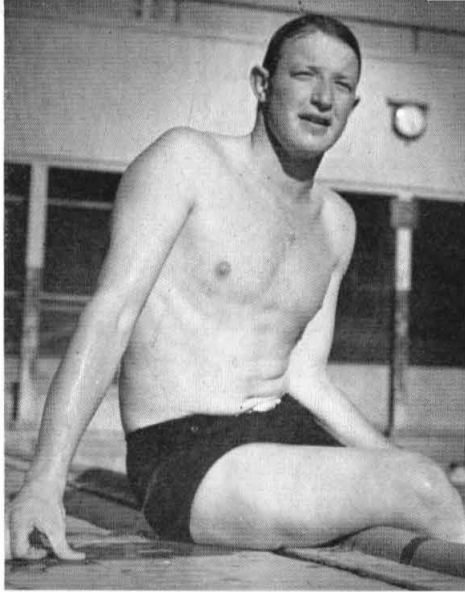
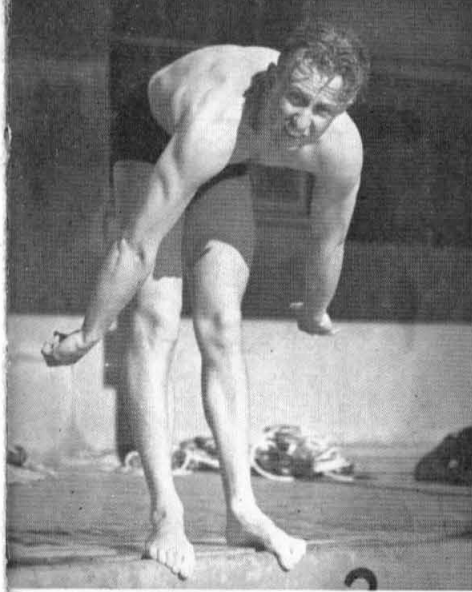
Bob Frost, third base, John Mason, outfielder.

Swimming

Boasting the best balanced squad in the Southern California Conference, the Caltech varsity swimming team seized the conference championship. In their first conference meet the Beavers swamped a weak Pomona team 55-25. Captain Bob Merrick and his team limited the Sagehens to one first. At the same time two new school records were set up, the first by Bud Olds who swam a 1 minute 54 second backstroke and the second when Jim Tuedio paced the swimmers in a 5 minute 58 second 440 yard freestyle. Bob Merrick won the 220 yard freestyle and the breast stroke to take high point honors.



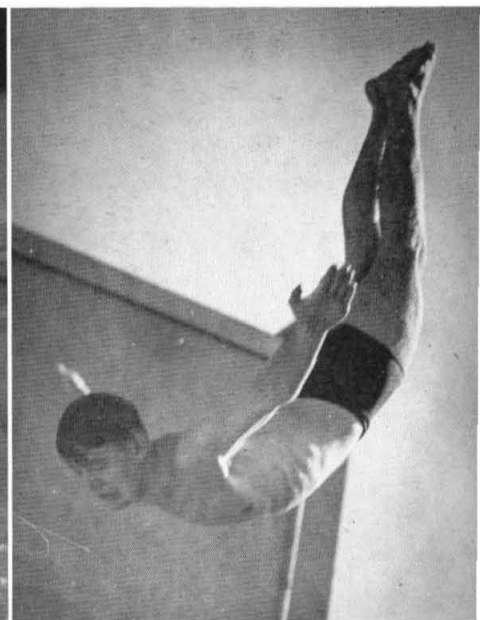
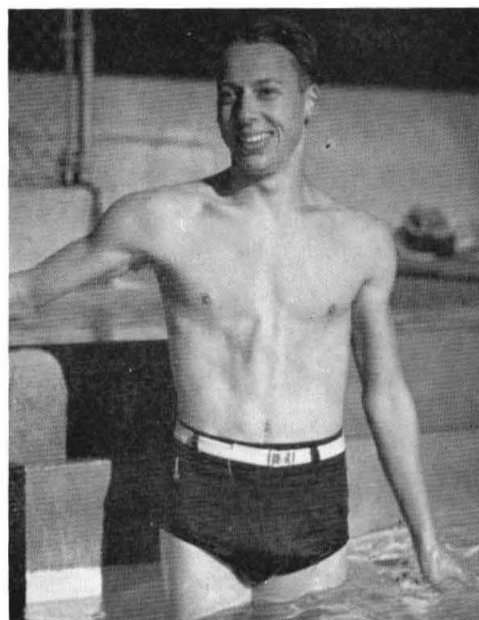
Sturdevant, Tuedio, Dixon, Merrick, Pilorz, Woods, Rosener, North, Cox,
Coach Snodgrass.



*Left—above: John Nelson, Bob Merrick, John Dixon.
Below: Gordon Woods, Bruno Pilorz, Dick Cox.
Bottom: Jim Tuedio, Wheeler North.*

In preseason meets Caltech defeated the U. C. L. A. varsity 41-35, the U.C.L.A. frosh 47-27, while losing to the Pacific coast champion U.S.C. Trojans 22-49, before practice had started, and to Fullerton and Compton Junior Colleges by scores of 28-47 and 52-42 respectively.

The team was Tech's strongest in years, and many records fell. In the Oxy meet, which the Beavers won 45-52, Captain Bob Merrick, Bud Olds, and John Dixon lowered the Conference 500 yd. medley record to 5:18.6. Tech school records broken during the season were the 220 by Merrick, the 150 back by Olds, the 440 by Jim Tuedio, and the four-man relay by Dixon, Tuedio, John Nelson, and Merrick.



Champions

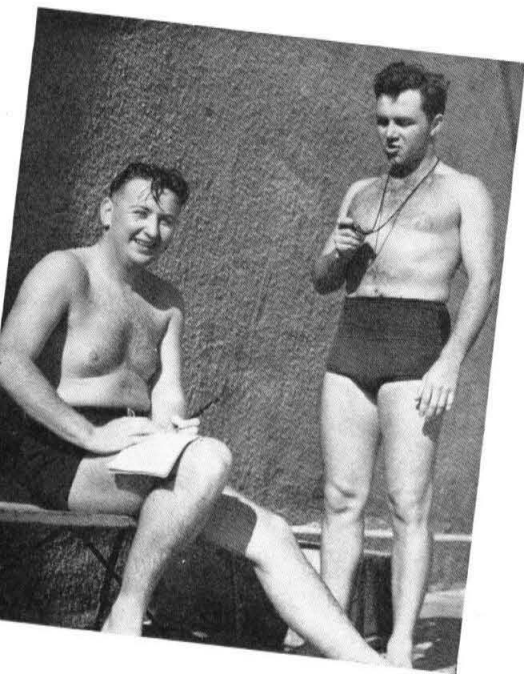
Varsity

The team was composed mainly of seniors and members of last year's conference freshmen. The only junior on the team was Wheeler North. North was also the only diver.

Leading the seniors was Captain Bob Merrick. Bob has dominated the conference breast stroke for three years, setting new records each year in his favorite event. He also clips a good freestyle race and this year has been the leading 220 yard man in the conference.

Among the other seniors Jack Dixon ended three years of varsity swimming with this season. Dixon could always be called upon to place in the sprint events. Dick Cox this year spread from backstroke to the distance events to end his third year. Gordon Woods helped out swimming freestyle.

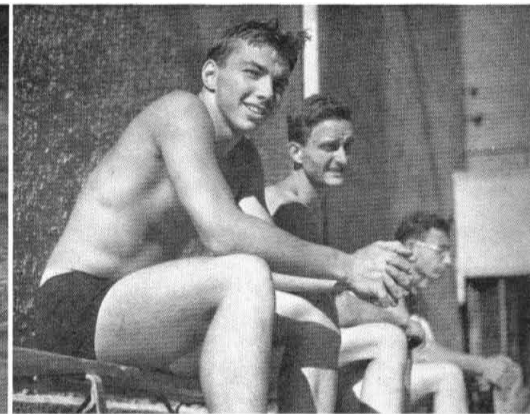
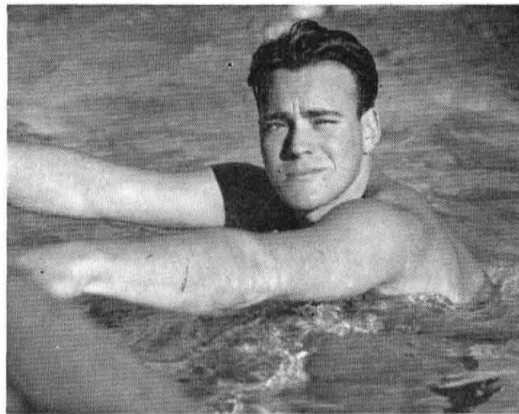
The four horsemen of the sophomore class again showed their prowess. Jim Tuedio led Tech in the distance events, John Nelson and Bruno Pilorz were the mainstays of the sprint events, and Bud Olds was the utility swimming back, breast or freestyle. Clay Sturdevant, a transfer, was a consistent backstroker. Joe Rosener helped out in the sprints. Bill Giacomazzi was manager again during the year.



Above: Manager Giacomazzi jots down sprint times for Coach Snodgrass.

Left—above: Owen Olds, Joe Rosener.

Below: The paddle-board workout; Clayton Sturdevant.



Above: Beginning wind-sprint relay laps. Below—front: Linnes, Dethlefsen, Stix, Johnson, Waters.
Behind: Ammer, Reed, Hall, Silliker, Cotton.



Frosh

In their first meet in the conference, the Beaverbabes pulled through with a crushing defeat of a pitifully weak Pomona team. The Tech yearlings only lost the 440 yard freestyle as they tallied up a score of 55-18. In practice meets the frosh lost to Black-Foxe and the P. J. C. Bullpups.

In the Oxy meet the Beavers came through with colors flying, ducking the Tiger frosh 40-55.

The men turning out for the freshman team included freestylers, Bart Smith, Ronald Johnson, Don Garrett, Phil Adams, Alfred Waters, Thomas Stix, Doug Dethlefsen, and Dick Hall. Mitchell Cotton specialized in the backstroke; Karl Linnes led the breaststrokers; and Hank Ammer and Bill Lockwood handled the diving.

Soccer

In its first year as a recognized minor sport at Caltech, the varsity distinguished themselves by steadily improving during their schedule of five games in the Los Angeles Alliance League, as well as in games with three other colleges.

In the season's opening game played against San Bernardino J. C., the Beavers eked out a 2-1 win. The following week the Engineers were defeated by the U.C.L.A. varsity 7-5 in a wild-scoring contest marked by the stubborn resistance of the losers against the more experienced Bruins. Two weeks later the Techmen again defeated San Bernardino, this time 4-0, showing a marked improvement in doing so. The highlight of the season was the invasion of the R.A.F., a championship British team, who easily vanquished the home team to a 9-1 count. Profiting from their loss, the Beavers proceeded to trounce soundly the Magyars 5-1, and the Vikings 1-0. However, the Clan Cameron, a Scottish team, defeated the Engineers 4-2 in a stubborn struggle. In the last game of the season, the varsity was again beaten by the R.A.F., but this time only 2-0. The Beavers succeeded in holding the airmen scoreless for the first half, the first time any squad had done so.

Led by Captain "Tony" Spaulding, the Beavers showed such an improvement that they became a match for any team on the coast. At the Soccer Banquet held late in the second term, presentations were made to Coach Al Landau and Herbert Nash, faculty sponsor, in recognition of services rendered. Tony Spaulding received the award for the most outstanding Tech player, and letters were awarded to Atkinson, Bair, Bashor, Blayney, Bragg, Grant, Hughes, McKibben, Nuetzel, Fleischer, Pichel, Powlesland, Ridland, Saye, Smith, Spaulding, Terminel, Borden, and Manager Shor.



Left: Coach Al Landau, the student who introduced soccer to Caltech. *Right—top to bottom:* "Jungle" Jim guards the goal. Powlesland encounters difficulties. Bart Smith leads the frosh. Saye goes into action against the R.A.F. Schuyler dribbles down the field. Heading the ball.





Varsity squad. Right — standing: Coach Liddell, Powlesland, Hughes, Ridland, Terminel, Neutzel, Pichel, Captain Spaulding, Saye, Bair, Shor, manager. Front row: Bashor, Fleischer, Smith, Bragg, Atkinson, Borden, Coach Landau.

Frosh squad. Below — standing: Long, Elliott, Ordway, Captain Smith, Schuyler. Front row: Atchison, Roberts, Rypinsky, Waters.



The first Caltech frosh soccer team came into existence toward the end of the first term of this school year. As soon as the squad was large enough, it entered the Alliance League of the Los Angeles Soccer League.

The competition was tough, and the frosh won only one out of ten games. A great deal of experience was gained by the players, however, and the spirited squad gave stiff battles to many league teams composed of veteran players.

Pasadenan "Jock" Liddell began coaching the frosh after their first trouncing at the hands of the R.A.F. and improved the team to such an extent that they held the R.A.F. to 5-1 in a return match.

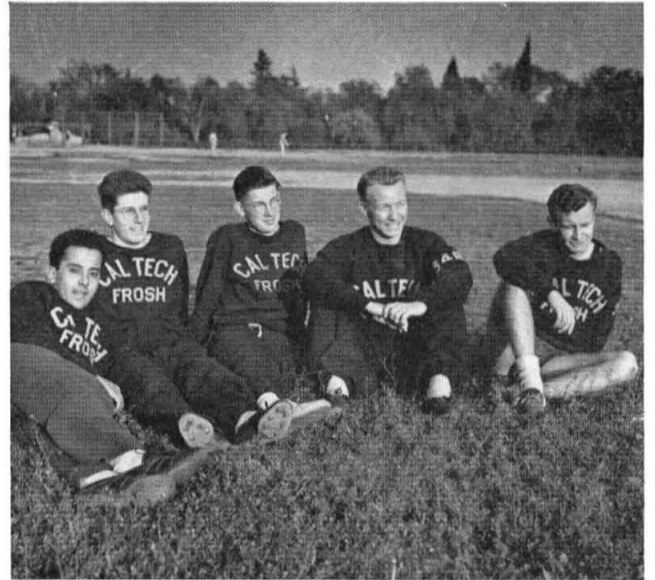
Outstanding on the squad was Bart Smith, center half, who played good offensive and defensive soccer and coached the others in the first months of the team's existence. Kenny King in the fullback line and Bill Elliott in the goal also played a spectacular and steady game all season. These men, as well as others on the frosh squad, will be noteworthy additions to next year's varsity team.

Cross Country

Frosh team—above: Lesmez, Van Voorhees, Kettler, Brown, Carroll, captain. Below: Coach "Doc" Hanes (left) fills his accustomed position as timer.

Led by Captain Bob Densmore, the Caltech cross country squad ran all opposition to the ground in the preliminary dual meets and went on to finish two complete teams in the conference meet before Pomona, second place winner, finished.

In the first meet of the season the Beaver leather lungers galloped over the rough course at Indian Hills to defeat Pomona 26-29. Later, in a three way meet at Tournament Park, the Tech hilltoppers turned back the combined assault of Oxy and Whittier.



Densmore leads the field in the conference four-mile run at Tournament Park.



The conference meet was only a formality, with Densmore, Art Schneider, and Francis Odell coming in one-two-three. Bill Lundy, seventh, and George Dall, eighth, completed the first Beaver five. Lettermen: Bob Densmore, Art Schneider, Francis Odell, Bill Lundy, George Dall, Melvin Merritt, Ko Sameshima, Warren Garst, Phil Johnson, and Bill Harland.

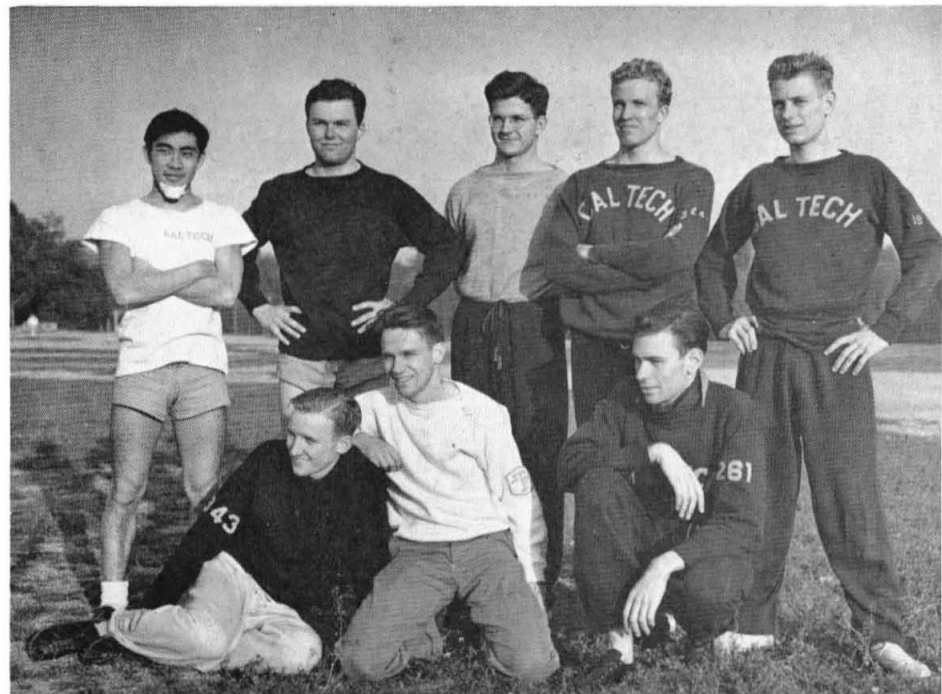
Above: Captain Densmore wins the conference four-mile run. Below: Captain Carroll breaks the tape in the frosh three-mile run.



Bud Carroll and Joe Lesmez led the frosh cross country men to victories over Pomona, Oxy, and Whittier. Redlands was unable to field a team. Bud Carroll was the most outstanding frosh in the conference, and took the conference meet in the good time of 17:01.5. Johann Knauer of Oxy took second, and was followed by Lesmez of Tech. Bud Fisher, Tracy Van Voorhees, and John Kettler completed the winning Tech team.

Carroll, Lesmez, Fisher, Kettler, and Van Voorhees made numerals.

Continuing the tradition that Caltech cross country teams are the best in the conference, the Beaverbabes gave a startling demonstration of their proficiency in going through the season undefeated and copping the frosh conference meet. Not only did the frosh do well, but showed several men who will help the varsity hold its sway again next year.



Varsity squad—front: Odell, Wilkinson, manager, Harland. Standing: Sameshima, Dall, Johnson, Lundy, Densmore, captain.

Champions



Ben Head, Ski Club president.

Ski Club

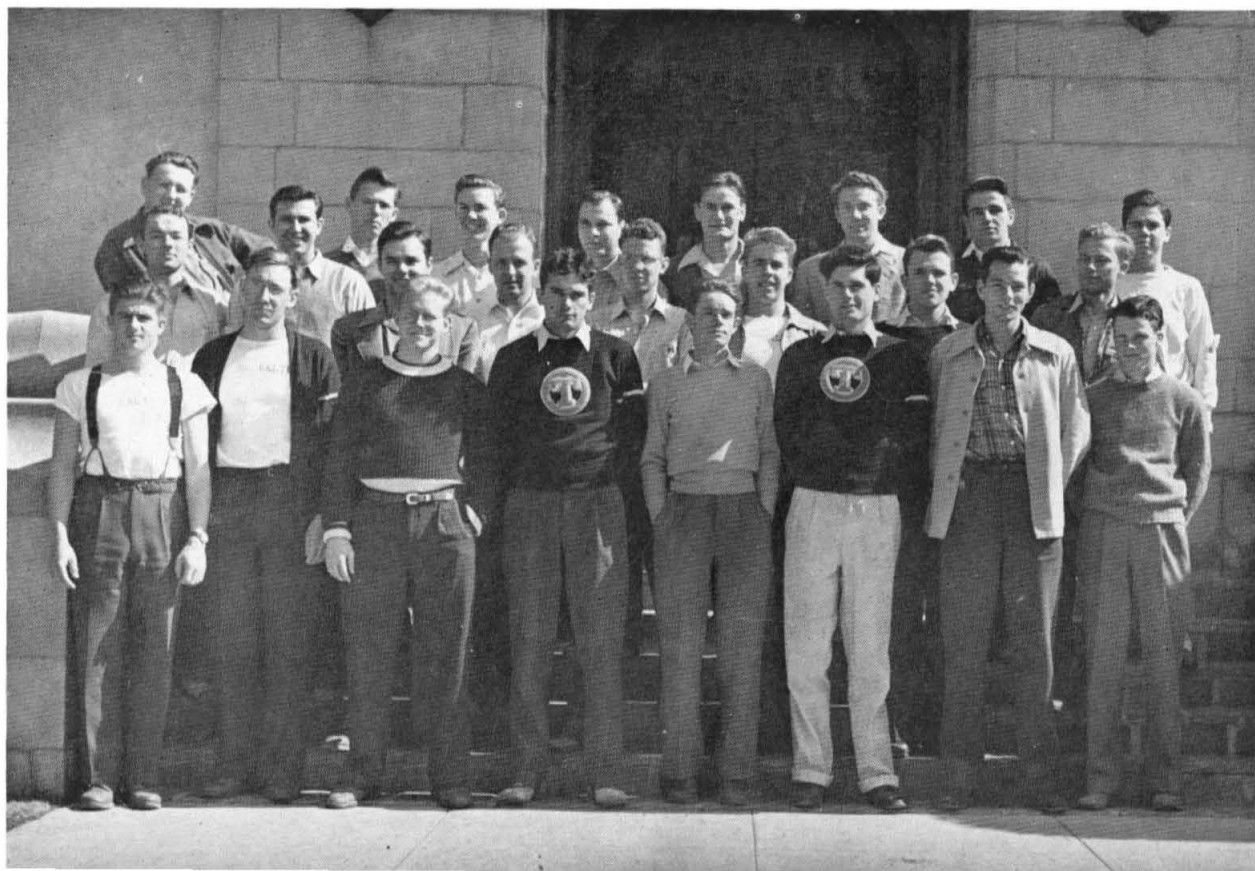
The Ski Club functioned even more strongly this year than ever before. Organized in 1937, the Club's size has grown until, today, its members are sixty in number. The largest non-restrictive club on the campus, it has provided many things for its members.

The ski hut this year has moved even nearer to completion. Built to accommodate sixty people, the hut is located at Keller Peak in the heart of the well known Snow Valley Ski Area. Throughout the year, members took advantage of the Club's facilities, and many a swell party was given at the hut by skiers.

The Club put forth its best skiers to represent the school in Intercollegiate Ski Meets. Captain Ben Head, Sam Peoples, Larry Brundred, Gordon Woods, and Bill Halpenny brought honor to the Institute and to the Club in both individual and team competition. The team was sent to Reno and Yosemite for their biggest meets. The Club sponsored two Interhouse Meets, with the Lilly Trophy finally going to Fleming, after Dabney has had it ever since the cup was presented.

Plans were discussed for an Intercollegiate Winter Carnival and Ski Meet to be held next year at Snow Valley. The Caltech Ski Club, together with the University of Southern California's Ski Club, is planning this social event to take place during the middle of next winter.

This year the Club was headed by Ben Head, president, and Larry Brundred, secretary-treasurer. Officers for next year will be: Larry Brundred, president; Bill Giacomazzi, secretary-treasurer.



Front row: Meier, Woods, Brundred, President Ben Head, Peoples, Dick Head, Ridland, Stone. Center: Gold, Steele, Dazey, Hall, Lingle, Dethlefson, Wheeler, Barrow. Back row: Giacomazzi, Schlinger, Buller, Buettell, Sheldon, Rhoades, Bishop, Hunt.



Left—kneeling: Johns, captain; Kennedy. Standing: Haymond, Bartlett, manager; Weller, Wheeler, Young, Grossberg.

Below—kneeling: Wood, Osgood, Ukropina. Standing: Bear, Meehan, Long.

Undeclared in any conference match, this year's golf team won the conference title in both match and medal play. Climax of the season was the thirty-six hole conference tournament at Brookside where Captain Bob Johns led the squad to a 653-655 victory by taking first place in the individual honors, followed very closely by Joe Garst in second and Dester Haymond who lost third in a play-off. Bill Kennedy shot a good round to fill in as fourth man on the Tech team.

The season started successfully with a 22-8 win over Pasadena Junior College in a practice round. Pomona was downed 16½-10½ at Fox Hills. Next, Oxy met defeat at Altadena 6-5. After another successful practice round with PJC, winning 20-16, Tech played Pomona and Oxy on the new, tricky, home course at Flintridge winning 10-8 and 22-8. The only blemish on the team's record was a close practice match with U. C. L. A. in which the Engineers lost 12½-14½. Bob Johns usually played first with Dexter Haymond and Joe Garst alternating in second. Dick Marsh, Harry Moore, and Bill Kennedy made up the rest of the team, with Manager Dave Douglas, Greg Young, and Tony Briglio doing a good job as substitutes.

The frosh team defeated PJC frosh 14-10 and tied South Pasadena High 12-12. Captain George Osgood played some excellent golf and was ably supported by John Ukropina and J. C. Baer, with George Wood, Neville Long, or Pat Meehan filling fourth position.

With almost all of the varsity coming back and with valuable additions from the frosh, the golf team should have no trouble next year.

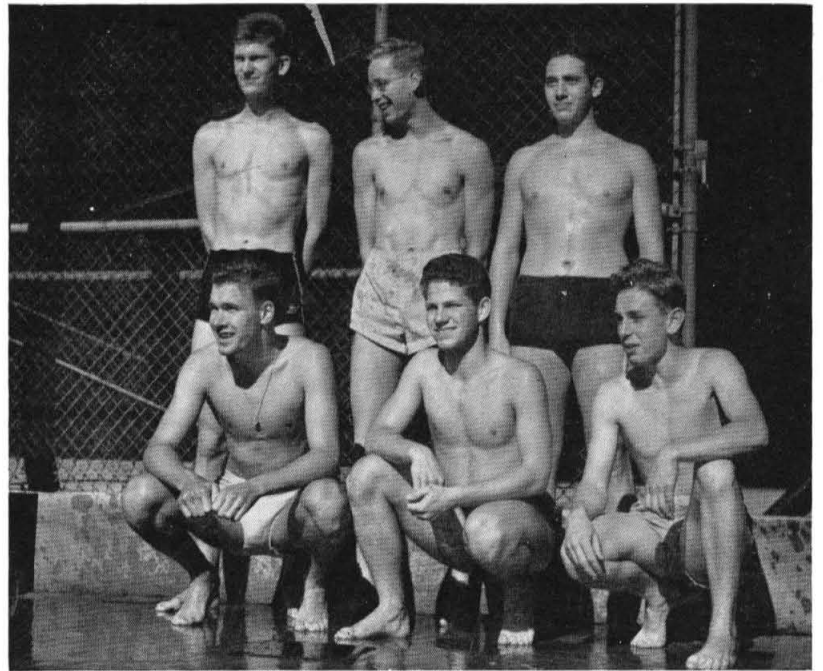
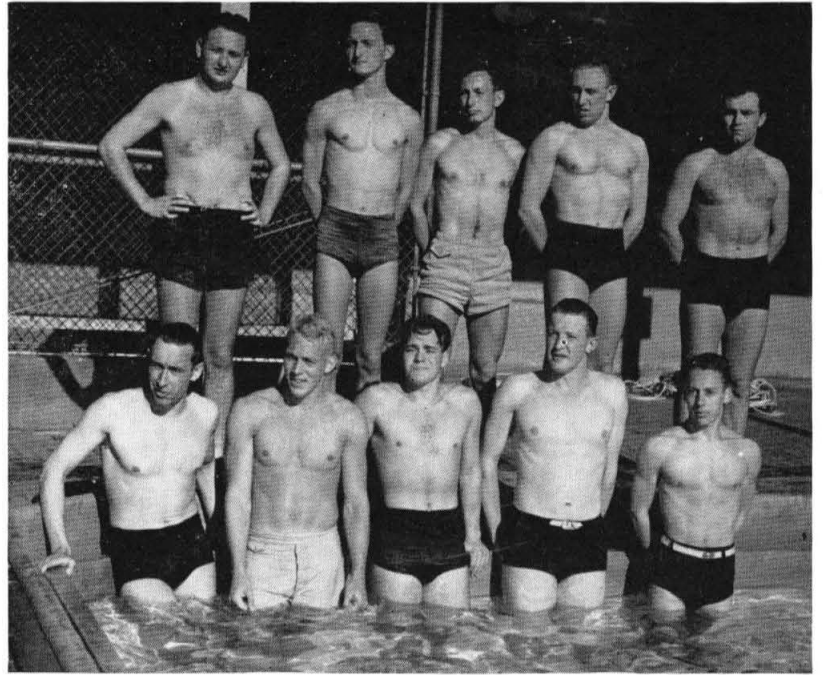


Golf Champions

Varsity squad. Above—standing: Manager Giacomazzi, Sturdevant, Drake, Merrick, Coach Snodgrass. In the water: Woods, Nelson, Olds, Dixon, Tuedio. Frosh squad. Below—standing: Linnes, Garrett, Stix. In front: Ammer, Lochhead, Vogel.

Varsity water polo was potentially one of Tech's best. In games, however, the team was usually only a second half team and could never overcome first half disasters. In the only conference game the Beavers whipped the Occidental squad 17 to 8 to earn the conference championship. The other top game was against U. C. L. A. when the Beavers held the Pacific Coast champions even until the last minute when the desperate Bruins pulled ahead 14 to 11.

In games with Fullerton, Compton, U. S. C., San Jose, U. C. L. A. and Oxy the Beavers met fine opposition. Seniors Bob Merrick, Jack Dixon, Dick Cox, Gordon Woods and John Drake ended four years of water polo. Amasa Bishop, Ralph Marshall, and Mitchell Dazey, juniors, and Jim Tuedio and John Nelson, sophomore, completed the team.

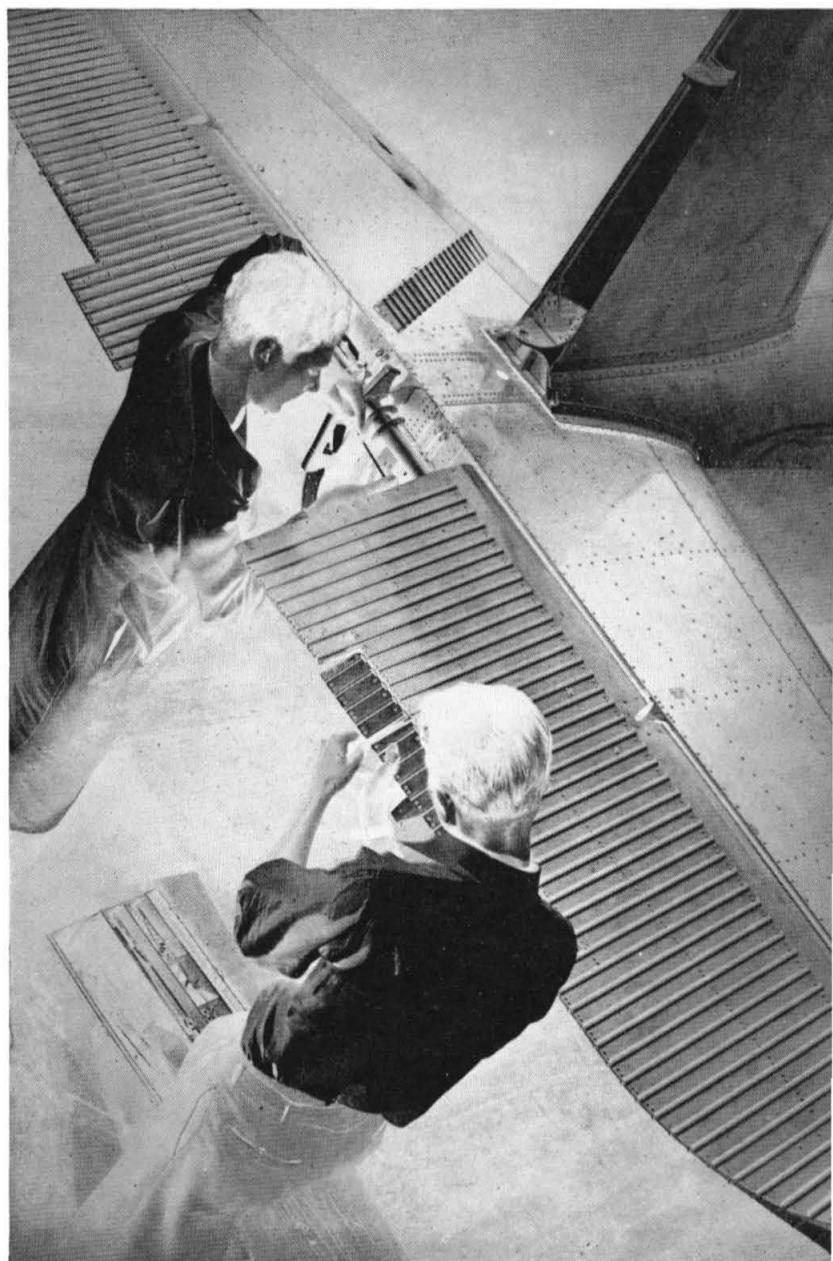


From a green start, Coach Ruben Snodgrass trained the frosh water polo squad into a unified whole. They didn't win any of their games, but the Beaverbabes gained experience that will be invaluable next year. Those who played in the games were Philip Adams, Don Garrett, Karl Linnes, Doug Dethlefsen, Thomas Stix, Ray Lockhead, and Hank Ammer.

Water Polo Champions

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Calendar

Oct. 4 Tech Football season opens at San Luis Obispo.

6 DBNY emits first radiator broadcast to the Boarding House League.

15 House prexies battle it out to see which Frosh goes where.

16 Pajama-clad Techmen run wild through the streets of Pasadena. The State Theater has the honor? Oxy-men attempt villainous kidnaping. Tech retaliates. Oxy student prexy spends night at Tech. Casualty list: Tech-1, Oxy-14.

17 Oxy game. Tiger tail was stubborn and wouldn't come off.

18 Smokers and stags welcome Frosh to their new homes.

20 Frosh notice abrupt change in Upperclassmen's attitude toward Frosh. Poor Frosh!

25 Whittier trade mark appears on Tech lawn. Tech men depart to Whittier for a spot of T on local 40 yard-line.

30 Formal initiations induct Frosh into Houses.

31 Frosh breathe sigh of relief. Now they are almost men!

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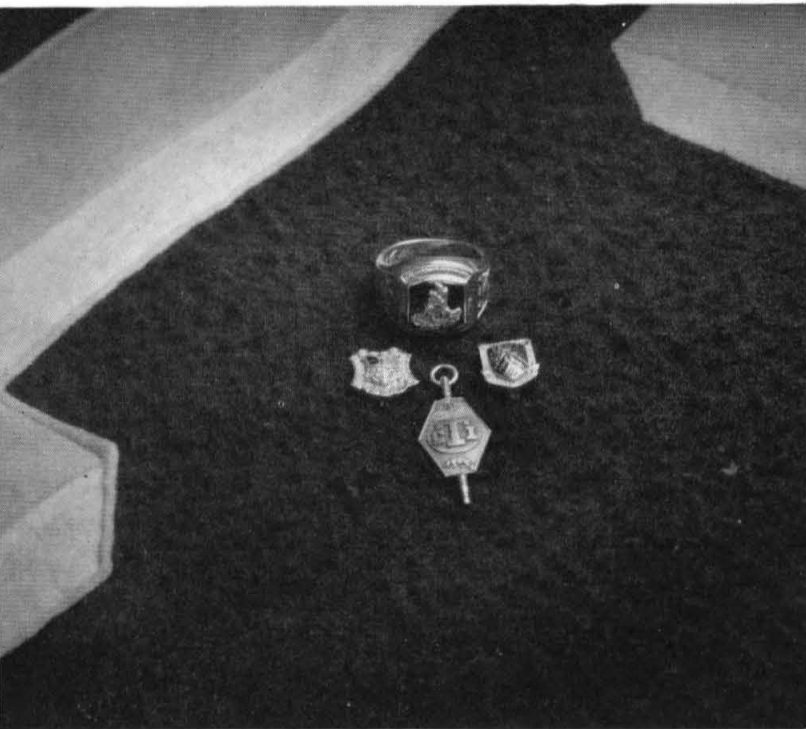
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Pasadena's Dependable NEWSpapers

Calendar

- Nov. 7 2:15 P. M. Sophs lick lowly Frosh in annual mud spree. 8:00 P. M. Pasadena Post sports headline—"Tech scores terrific 14-0 upset!"—The victim, Pomona.
- 21 Tech water poloists take Oxy to cleaners, hence win conference championship.
- 28 Five-House Dance.
- Dec. 10 First Tech blackout is a complete success. Nobody knows what to do. Everybody enjoys himself.
- 15 Undefeated, untied cross-country team annexes conference title.
- Jan. 15 New P. E. classes commence. Grunts and groans from lower classes. Typical upperclass comment—It will do them good, great idea.
- 19 Olive harvest begins.
- Feb. 26 Election Rally. Cigars, cider, Flo, and Pogo Joe amuse Techmen.
- Mar. 27 Headline in L. A. paper—Caltech Explodes!
- Apr. 15 Interhouse six-man football gets under way.
- 17 Earl Carroll to select Tech beauty queen.
- 24 Track team sweeps conference, remains unbeaten in dual meets.
- Fri. May 8 Tech adds two more conference championships to its achievements, swimming and golf.

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ALUMNI ASSOCIATION
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A



T



B



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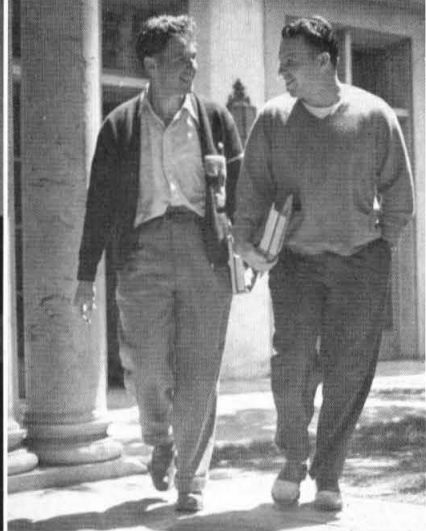
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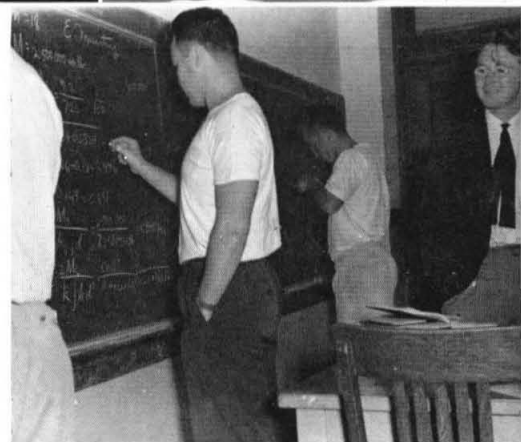
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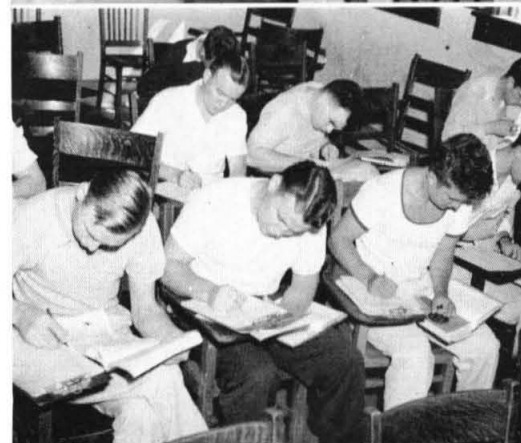
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What's Macartney doing around school? Well, what would any former house secretary, former athletic manager, future football captain, and future senior class president do around school? This question bothered Tommy Carter, frosh president and frosh football captain, so much that he spent a day investigating with his flash camera.



Tiptoeing across the hall at seven thirty-five, Tom arrived just in time to snap Mac mercilessly extinguishing his alarm clock. Shucks, any Techman does that, Tom thought.



And breakfast wasn't so unusual either, although "Roundo" Macartney supports a physique which sugar rationing should improve.



Off to class with the "Tech Scott." Perhaps associating with famous people is the key to Mac's success, reflected Tom.

At the board Mac had an air of—well, fumbling. He was the same taking a test in heat engines. He probably had had a hard night subduing the frosh.

Then to the athletic office to see if the new football coach had been chosen. That's pretty important to the next year's captain.



A haircut. Yes, even Macartney gets a haircut — as long as it's Bob at the Caltech Barbers.

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Mac's Day

As Tommy Carter extended his research of Macartney's life in an effort to uncork the why and wherefore, he stopped him swatting flies in Ricketts court—at least that's what Mac told sour-faced Spaulding. That probably has theoretical significance, considered Tom.



Mac didn't do very much at lunch that day, he was too hungry to float Stone or heave a napkin at LeVine.

Cards after lunch. At least Mac tries hard to force a trick.



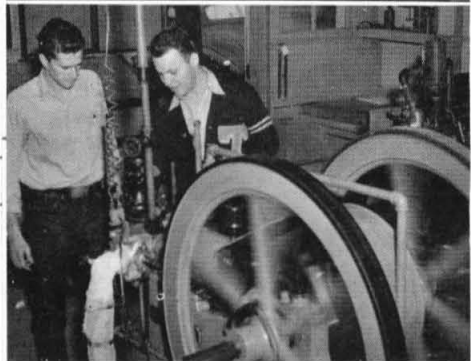
Plotting an efficiency curve, one point landed way off the graph. Rather than stretch the paper, Roundo started the gas engine and took it over. Just to make sure, Kendall suggested they repeat the experiment. Only this point was on the second curve. (Tom had always thought that science is infallible—until he watched Macartney.)

Mac came to life on the baseball field that afternoon. Only let two men in while looking for the ball around third base.

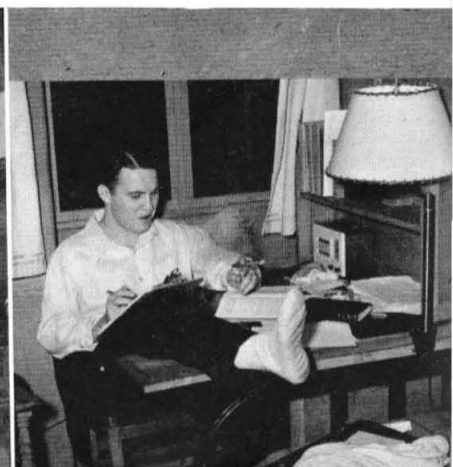
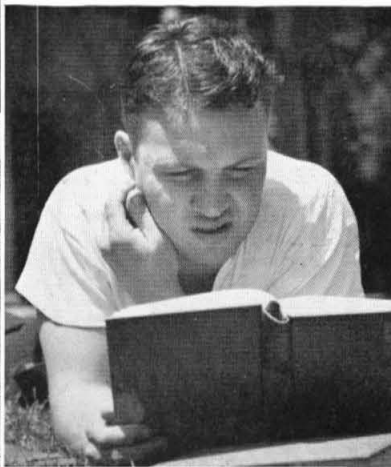


Macartney snakes—at least a little bit. Couldn't think of any better way to pose for his picture on the grass.

His mischievous chuckle went into action that evening when he discovered Bair standing in the court. (He didn't notice the water bag until too late.)



At last Tom caught Macartney really applying himself. Success was just hard work. Tom decided. (He didn't notice that Mac's mind was far away in a smoke-dream of next Friday night.)



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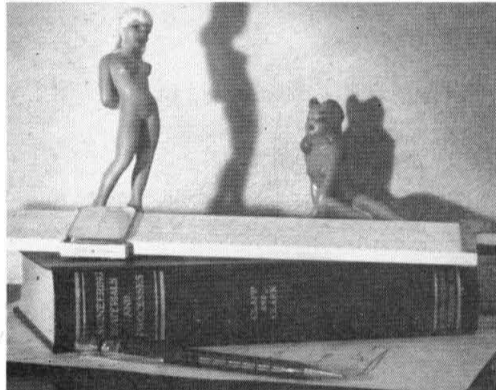
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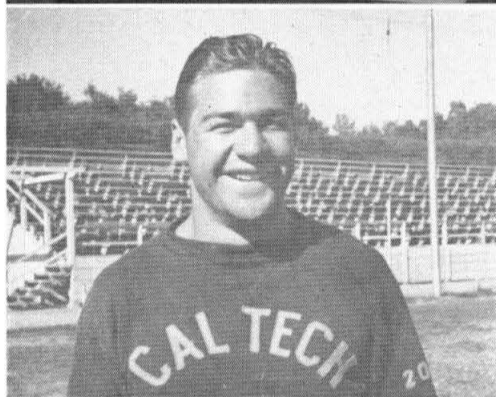
Preliminaries of the
Dabney officers' swim-
ming meet.



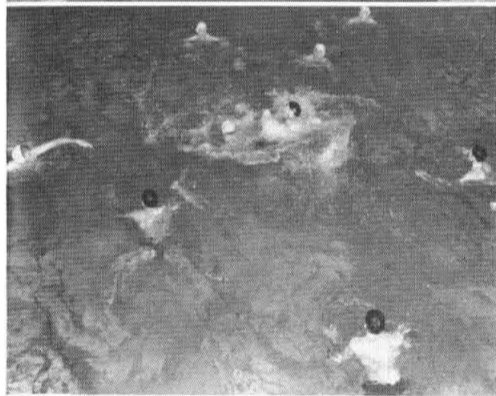
Spirit of Tech!



Smiling Tom.



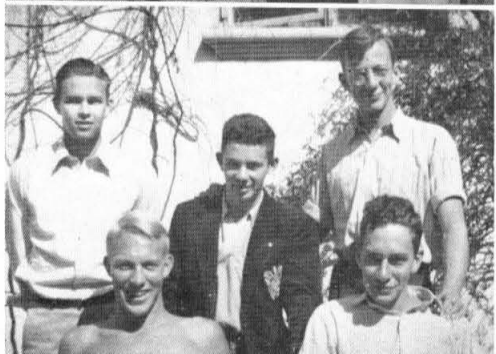
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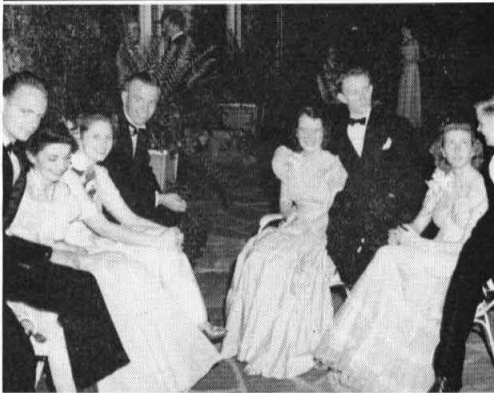
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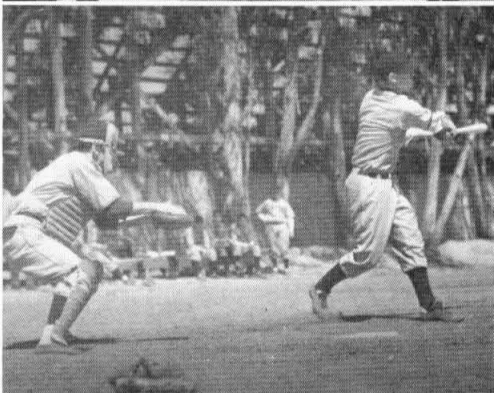
CEntury 20188



Snake dancing around
the Oxy-game bonfire.



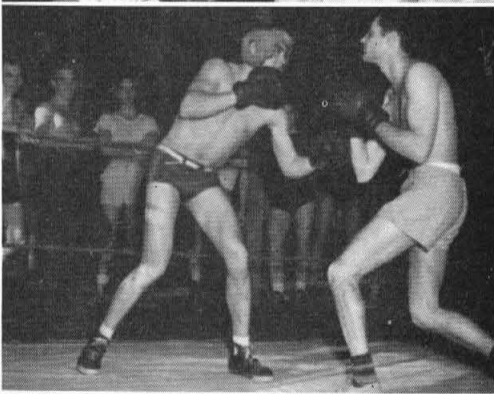
Intermission at the
student body formal.



Anderson hits another
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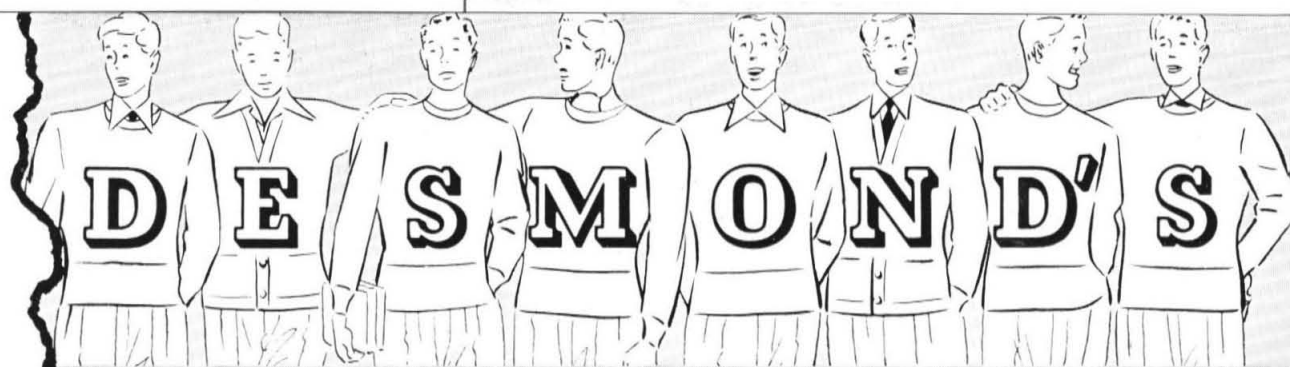
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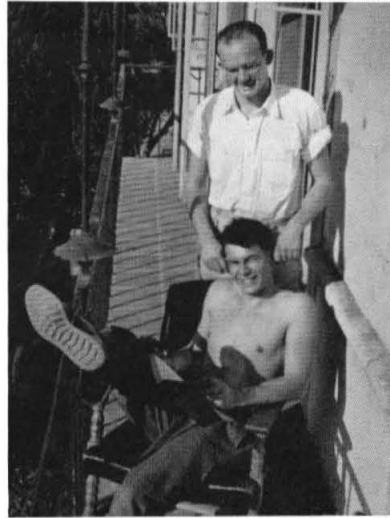
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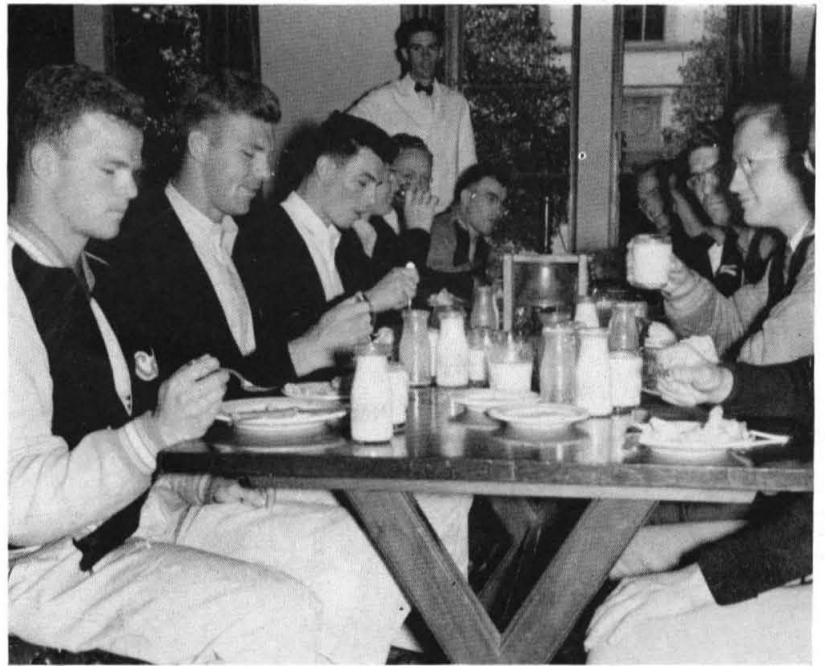
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15	La Verne 0	55 ³ / ₈	PJC 77 ¹ / ₈	4	Citrus 9
0	Oxy 26	112 ¹ / ₂	Glendale JC 18 ¹ / ₂	4	PJC 19
0	Whittier 25	74	Pomona 57	4	Chapman 2
6	Redlands 27	101	Whittier 25 ¹ / ₂	1	Glendale JC 8
14	Pomona 0	101	Redlands 32 ¹ / ₂	11	Citrus JC 3
6	San Diego 44	70	Oxy 60	19	Pomona 8
BASKETBALL		61	Santa Barbara 71	6	Whittier 1
34	Whittier 35	TENNIS		8	Pomona 9
41	Chapman 37	3	PJC 6	8	Whittier 9
46	Pomona 45	6	UCLA 3	7	La Verne 11
50	Pepperdine 44	9	Whittier 0	5	Pomona 4
52	La Verne 41	3	PJC 6	12	Pomona 1
58	Pepperdine 45	7	Oxy 0	3	PJC 8
45	Oxy 42	8	Loyola 1	14	Whittier 8
48	Redlands 51	8	Whittier 0	5	Whittier 6
37	Chapman 38	5	Pomona 4	16	Cal Poly 3
51	Whittier 54	0	Redlands 9	17	Redlands 6
52	Oxy 41	6	Pomona 3	15	Redlands 11
59	Pomona 45	0	Redlands 9	0	Oxy 2
63	Redlands 53	8	Oxy 1	SWIMMING	
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				28	Fullerton 47
				52	Compton 42
				55	Pomona 20
				40	Oxy 33

The Beauties of Caltech



Left: Transforming James St. John. Center: Co-eds Mary Warren, the queen; Georgia Osgood, second; Patricia Lambert, third. Right: Osgood and Warren back to normal.

Caltech went co-educational this year. Earl Carroll of Hollywood fame chose a queen of the Caltech students. Writing with a touching sincerity which belies the connoisseur, he said "All the girls were exceptionally lovely, and I found the selection most difficult. I sincerely hope my choice will meet with approval." His choice was Mary Warren of Ricketts. The men of Ricketts no longer have to trek to Scripps every weekend with such a beauty in their midst.

The whole affair started when the California Tech received a letter from Earl Carroll. The editors saw a chance for a great publicity stunt and decided to go ahead with the beauty contest. Entries were taken from each house: Mary Warren and Georgia Osgood, Ricketts; Patricia Lambert, Dabney; Jean Bussard, Fleming; Shilde Steinle and Janet St. John, Troop Club. The boys were then transformed by Sonia Henius and Gwen Crawford, make-up artists at the Pasadena Playhouse. They were then photographed by Bob Gustavson.

The results have been terrific, every newspaper from coast to coast carrying the story, and the New York News buying the pictures.