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THE BIG T

The 1946 Big



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Harold M. Hines

Foreword

The City of Pasadena takes particular pride in the California Institute of Technology, builder of trained men in the technical and scientific world. Caltech and its men in their accomplishments bring fame and credit to the Institute and our city.

Students who are privileged to attend this world-renowned center of learning are fortunate indeed to have the opportunity to observe the contribution made by the public-spirited citizens to the many cultural and civic activities of the community. Among these may be mentioned the annual Tournament of Roses with its floral parade and football game, its art center, its theatrical productions, and, not the least, its athletic activities, many of which have produced athletes such as the late Charles W. Paddock, for whom your athletic field at Tournament Park is named.

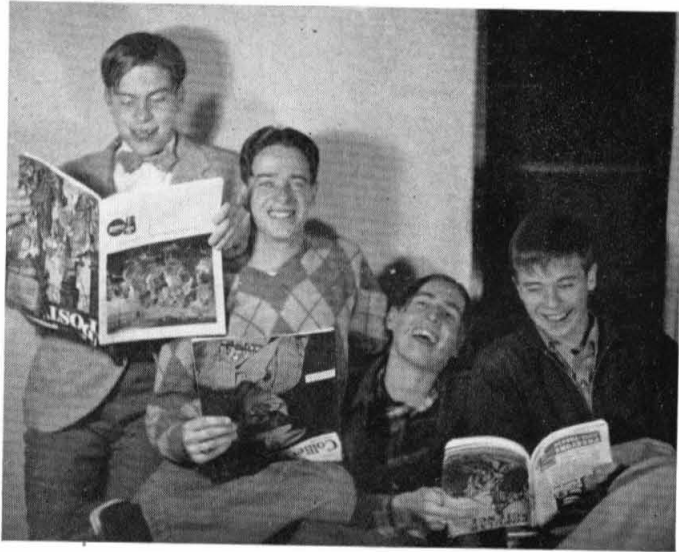
Caltech contributed substantially to the successful conclusion of World War II in the development and production of many scientific devices for the armed forces. More important still, it trained hundreds of men who performed distinguished service in the Navy. During this period many demands were made of the city requiring the combined efforts of the Institute and the city to accomplish what often appeared to be the impossible. The finest spirit of coöperation prevailed throughout, to which the municipal administration shall always refer with pride.

Your first "Big T" in the post-war period will record these accomplishments and will serve to remind you that with the will to do in an atmosphere of coöperation, truly nothing will be impossible in the new era of peace.

HAROLD M. HINES
City Manager

March 8, 1946

Study



Play



Friendship

Dedication

Long before Pearl Harbor, Caltech researchers and technicians were at war. For six years most of their work was done in utter secrecy. Only now are we learning the munificence of ideas and equipment that they contributed to victory. They did more than their part. We salute them.

In Remembrance

A. C. Balch Board of Trustees
Col. F. W. Hinrichs
Harry Chandler Board of Trustees
Alexander Macbeth Board of Trustees
Max Farrand Board of Trustees
Roscoe Gilkey Dickinson, Ph.D. Professor of Chemistry
Acting Dean Graduate School
Thomas Hunt Morgan, Ph.D., LL.D., Sc.D., Nobel Lauriate
Member of Executive Council Emeritus
Professor of Biology, Emeritus
Harry Bateman, Ph.D. Professor of Mathematics
Edwin Francis Gay, Ph.D., LL.D., Litt.D.
Associate in Economic History
And all others who gave their lives for their country



Arms and Mudd

The Charles Arms Laboratory of the Geological Sciences is the gift of the late Mr. and Mrs. Henry M. Robinson while the western of the two structures was given by the late Mrs. Seeley W. Mudd. The total space available for instruction and research in the geological sciences probably exceeds that devoted to these purposes in any other institution in America. The internal arrangement of the buildings is such as to provide suites of rooms adapted to the different branches of the geological sciences with office space available for all graduate students in geology, paleontology, and geophysics.

Campus



Throop Hall, originally the only building of the Throop Polytechnic Institute, from which the California Institute developed, is now the administration building. Throop has become the center of the campus, both architecturally and with respect to scholastic activities, as well as serving as administrative headquarters for over 3,000 employees of the Institute in its various war projects scattered over the Los Angeles area. Throop is symbolic of the sound fundamentals on which the Institute is founded.



Throop Hall

Late in 1941, the California Institute of Technology undertook the major responsibility for the development of equipment and methods for the dry-extrusion process of making explosives, and of rockets using them. The Bazooka was first used in the invasion of North Africa in 1942.

FACULTY





Board of Trustees and Executive Committee

H. S. Mudd, R. R. Bush, E. C. Watson, M. Mason,
 W. C. McDuffie, W. L. Stewart, N. Chandler,
 R. C. Tolman, L. Pauling, J. E. W. Sterling,
 C. B. Millikan, F. C. Lindvall
 G. G. Hoag, R. A. Millikan, J. R. Page, E. C.
 Barrett, J. S. Cravens, G. E. Farrand

The administration is rightly headed by the highest level of authority, the Board of Trustees, which in turn leaves the general supervision and direction of school affairs to the Executive Committee, subject, of course, to the approval of the Board. The members of the Executive Committee are Mr. Page, Mr. McDuffie, Mr. Meyer, Mr. Mudd, and Mr. Taylor from the Board of Trustees, and Dr. C. B. Millikan, Dr. Sterling, Dr. Pauling, and Dr. Tolman from the faculty.

Replacing Acting Dean of Freshman J. R. Macarthur is Dr. Foster Strong, well known to freshman physics classes. Dean Franklin Thomas has been active at Caltech since 1913 teaching and counseling as well as contributing much to the civic welfare of Pasadena for which he was awarded the Arthur Nobel Medal. Coming from Princeton in 1925, Dean L. W. Jones has assumed numerous duties including Associate Professor of English, Dean of Upperclassmen, and Director of Admission.



Deans: Franklin Thomas, Upperclassmen; L. W. Jones, Upperclassmen; Foster Strong, Freshmen

Administration

Humanities



Above: P. Bowerman, **Languages**;
far left: C. K. Judy and J. E. W. Sterling,
Humanities; left: R. D. Grey,
Industrial relations.

The Division of the Humanities occupy about one-third of the scholastic program at Caltech and in the past years many of the men have figured prominently in various fields.

Dr. J. E. W. Sterling attended the historic United Nations Conference and broadcasts over the radio in Los Angeles. Dr. R. E. Untereiner was occupied in Washington as an economic advisor to the National Association of Manufacturers. Associate Professor H. N. Gilbert studied the effects of Allied bombing in Germany while other members of the department did editorial work for many of the projects around Caltech.

The Industrial Relations Section has grown rapidly during the war years largely through the efforts of Professor R. D. Grey, who also worked closely with the Southern California Aircraft Industries, and Mr. A. N. Young, a pioneer in Industrial Relations.

Physical Education

In June, 1942, Mr. H. Z. Musselman succeeded Mr. W. L. Stanton as head of the Physical Education Department, and in 1944-45 guided Caltech's championship season in football, track, tennis, swimming, golf, and baseball. Mr. Marion Anderson, Chief Specialist with the V-12 unit here, and coach of the unscored upon 1944 football team, returns to the Department as a civilian.

Physical Education: H. Z. Musselman, M. Anderson



Scientists

The Science department at Caltech made many valuable contributions to the war effort in projects both on and off the campus.

In the Biology Department, Dr. A. E. Sturtevant continued his research in genetics. Along with such problems as parachute fatigue and motion sickness, Dr. D. Tyler developed a remedy for seasickness used in the Normandy invasion. Dr. A. J. Haagen-Smit and Dr. F. W. Went investigated plant rubber—the guayule, its oils and resins.

Over and above the sixteen projects of the Chemistry Department, Dr. D. M. Yost worked briefly on the atom bomb, Dr. J. B. Koepfli directed research in successful anti-malarial drugs, Dr. Linus Pauling contributed an oxygen-meter for aero-medicine, and Dr. C. G. Niemann worked with chemical warfare agents. It is with deepest regret, however, that we note the passing of Professor Roscoe G. Dickinson during the war years.

Dr. J. P. Buwalda and Dr. Beno Gutenberg, members of the Geology Department, continued teaching geology and meteorology in the war program. Dr. Chester Stock, Dr.

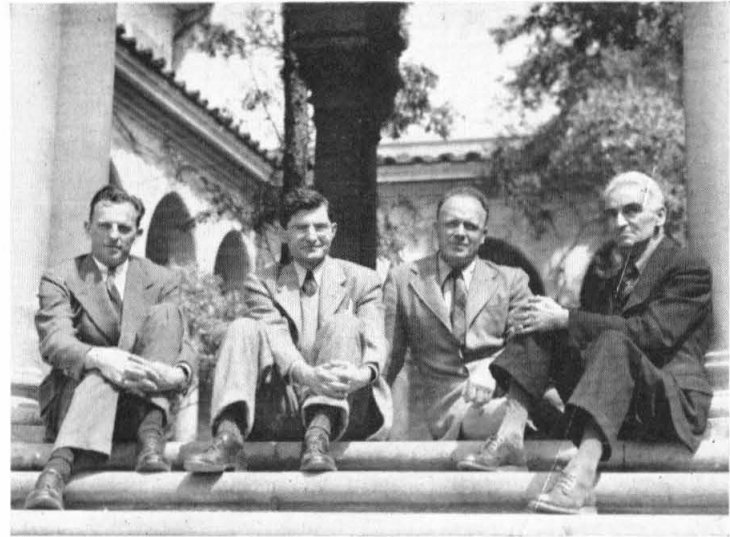
Richard Jahns, and Dr. Willis Popenoe worked on the U. S. Geological Survey while other members of the department engaged in research concerning everything from strategic minerals to submarine signal devices.

In the Mathematics Department, Dr. E. T. Bell and Dr. A. D. Michal continued teaching, and Dr. Morgan Ward directed the V-5 and V-12 mathematics courses. Dr. L. E. Wear taught in the V-12 program while Dr. R. P. Dilworth did special work with the Air Forces in Europe. We note with deep regret the death of another member of the Caltech faculty, Dr. Harry Bateman, who was one of the outstanding men of his field.

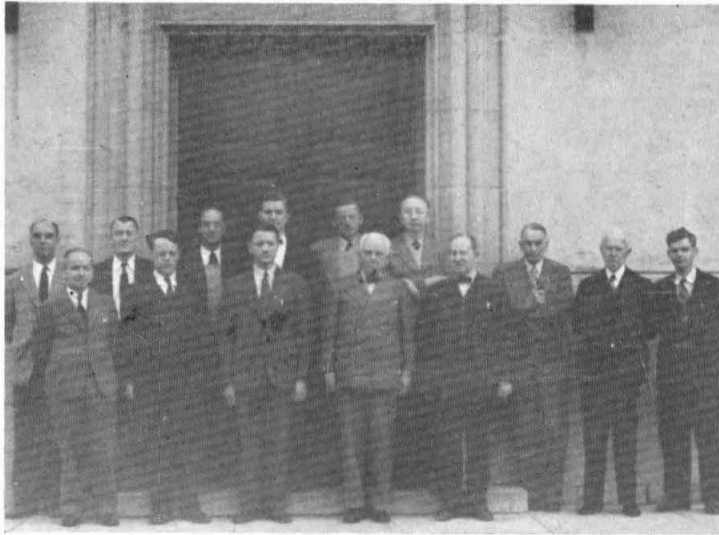
While all the faculty contributed to the Caltech project—rocket research, especially for aircraft, Dr. C. D. Anderson and Dr. C. C. Lauritzen figured prominently for the Physics Department. Dr. H. V. Neher was concerned with radar research at the M.I.T. Radiation Laboratory. Dr. R. C. Tolman was vice-president of the National Defense Research Council in Washington, D. C. Everyone is familiar with the work of one of our newer additions to the faculty—Dr. J. R. Oppenheimer, director of the Los Alamos project.



Chemistry: B. H. Sage, L. Zechmeister, O. R. Wulf
 V. F. H. Schomaker, E. H. Swift, C. G. Neimann, S. J. Bates
 D. H. Campbell, D. M. Yost, L. Pauling, W. N. Lacey



Mathematics: R. P. Dilworth, A. D. Michal, M. Ward, E. T. Bell



Physics: C. D. Anderson, C. C. Lauritzen,
 F. Strong, W. R. Smythe, A. Goetz,
 J. W. M. DuMond
 E. C. Watson, L. Davies, H. V. Neher,
 R. A. Millikan, P. Epstein, R. C. Tolman,
 S. J. Barnett, T. Lauritsen

Geology: D. P. Willoughby, R. H. Jahns, I. Campbell, C.
 Stock, J. H. Maxson
 R. VonHuene, B. Gutenberg, J. P. Buwalda, W. Otto



Biology: G. Keighley, A. van Harreveld, S. Emerson, J. F.
 Bonner, C. A. G. Wiersma, A. J. Haggan-Smit, H. Borsook

Engineers

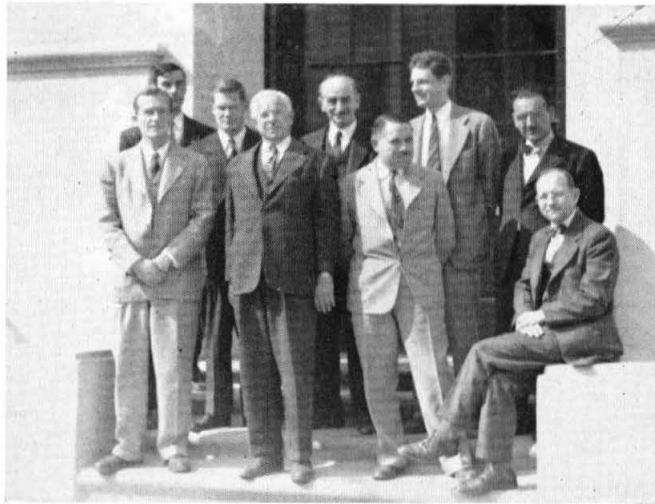
The Aerologists, a division of the Meteorology Department, were specially adapted for the V-12 program. Associate Professor P. E. Ruch has been acting head of the Meteorology Department from February, 1945, Director of the C.I.T.-A.A.F. Meteorology Research Project, and instructor. Associate Professors W. H. Rempel and N. C. Stone instructed in weather forecasting, practice, and meteorological laboratory, and served as supervisors in various Army Air Forces Extended Forecasting Research projects. Associate Professor R. O. Elliot was on active duty with the U. S. Navy until January, 1946, when he returned to the Institute as an instructor in Extended Forecasting. Mr. S. E. Blewett was a special lecturer on trans-oceanic flight forecasting and supervisor of the C.I.T.-U. S. Weather Bureau Project to analyze fifteen years of Northern Hemisphere daily synoptic weather maps.

Professor F. Thomas of the Civil Engineering Department was C.I.T. director of the Engineering, Science, Management War Training (E.S.M.W.T.) sponsored by the U. S. Office of Education to help meet the shortage of technically trained men in industry. From 1941 to 1945, C.I.T. trained about 30,000 men. Professor R. R. Martel served as consultant for the National Defense Research Council and Associate Professor W. W. Micheal also worked with the E.S.M.W.T. as a supervisor. Associate Professors F. J. Converse and A. P. Banta both made contributions to the war effort—the former working on foundations for dry docks, fleet bases, and other installations; the latter serving on active duty in the Corps of Engineers where he planned bases on Okinawa, Iwo Jima, Formosa, and other Pacific operations. Associate Professor G. W. Housner also served as Chief of Operational

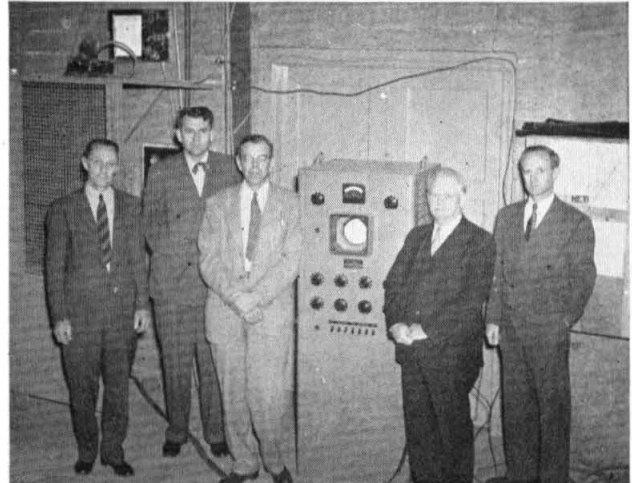
Analysis with the Fifteenth Air Force in Africa and Italy.

In the Electrical Engineering Department, Dr. R. W. Sorensen worked until November, 1943, as coordinator for the Southern California E.S.M.W.T. Radio Training Course. From then until the end of 1945, he was Associate Director of the Special Studies group at Columbia University with offices in the Empire State Building. Dr. S. S. Mackeown worked full time at the Institute teaching and also did outside consulting work while Dr. F. W. Maxstadt continued full time teaching, supervised and taught in the E.S.M.W.T., and did consulting work on war and reconversion problems. Teaching and rocket research, in addition to being in charge of several secret projects, kept Dr. W. H. Pickering well occupied.

Professor R. L. Daugherty, head of the Mechanical Engineering Department, taught full time besides doing ordnance work for the Army and Navy and being Regional Administrator for the E.S.M.W.T. Dr. D. S. Clark was official investigator for the Office of Scientific Research Development (O.S.R.D.) and War Production Board contracts besides holding many positions around Caltech, such as Editor of **Engineering and Scientific Management**. Dr. D. E. Hudson was first half then full time with the O.S.R.D., and is now instructing again. Also with the O.S.R.D. were Dr. R. T. Knapp and Dr. V. A. Vanoni while Dr. W. O. Wagner came from private business in February, 1945, to the Hydraulics Department. Mr. A. Hollander taught and served as a consulting engineer to Aerojet and other Southern California concerns, while Dr. H. N. Tyson taught full time and served as a supervisor to E.S.M.W.T.



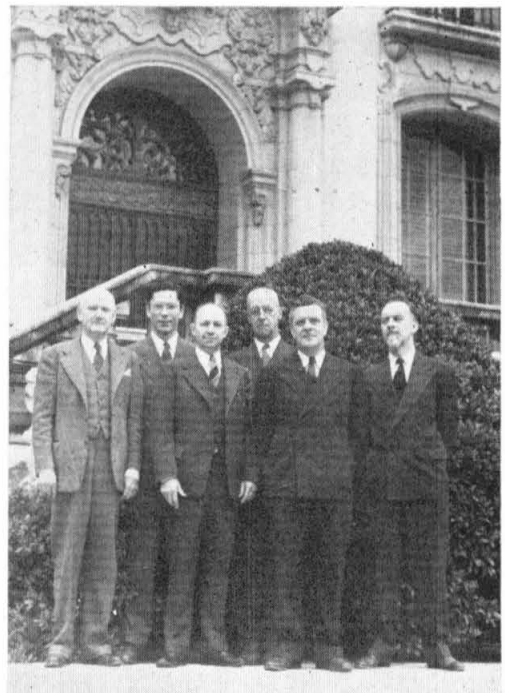
Mechanical: P. Kyropoulous, D. E. Hudson, A. Hollander,
J. W. Dailey, V. A. Vanoni
H. N. Tyson, R. L. Daugherty, R. T. Knapp, D. S. Clark



Electrical: F. W. Maxstadt, F. C. Lindvall, S. S. Mackeown,
R. W. Sorensen, W. H. Pickering

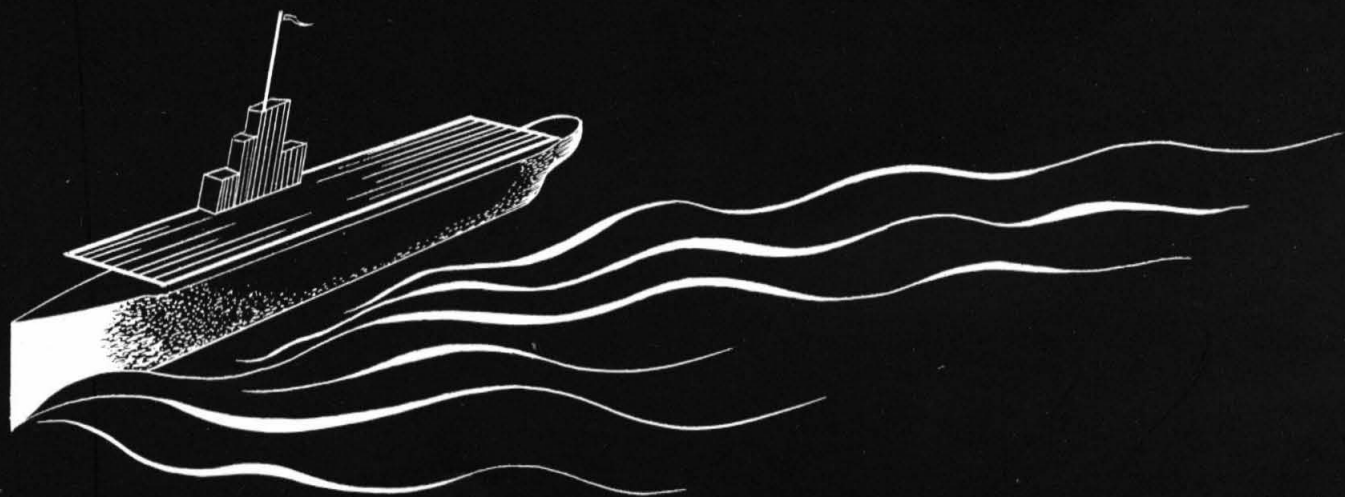
Civil: F. Thomas, G. W. Housner, F. J. Con-
verse, W. W. Micheal, A. P. Banta, R. R.
Martel

Aerologists: W. H. Rempel, P. E. Ruch, R. D. Elliot, S. E.
Blewett, N. C. Stone

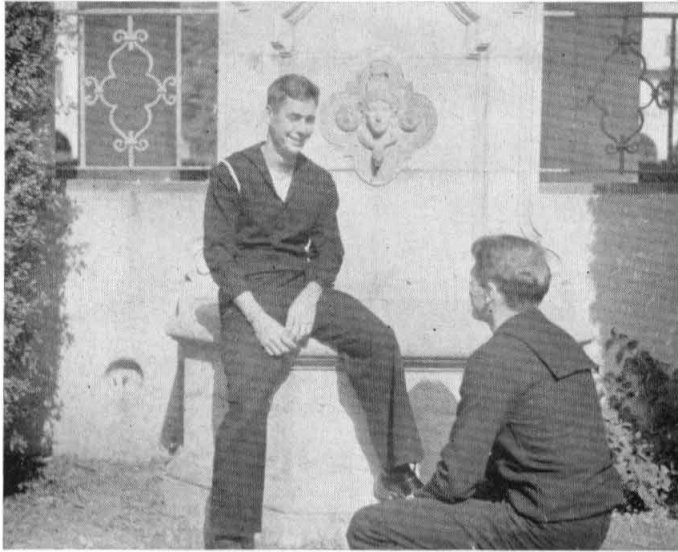


The largest rocket developed by CIT was the 1200 pound aircraft rocket, modestly named "Tiny Tim." It gave the attacking plane the punch of a 12 inch naval gun.

CLASSES



Senior Class Officers

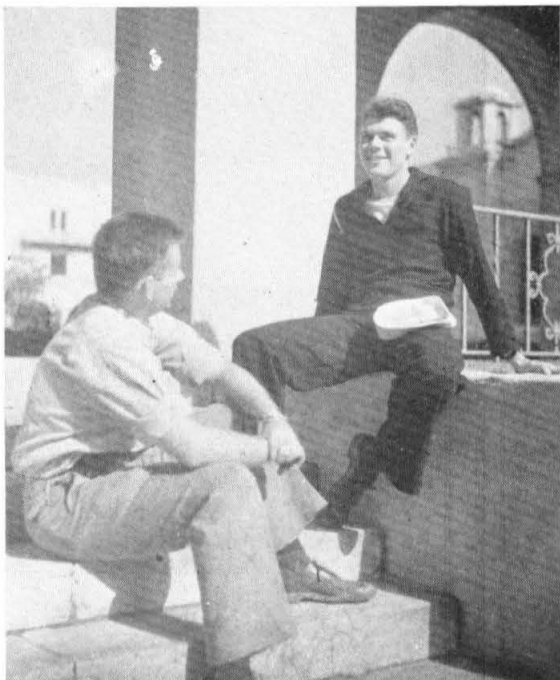


Clapp

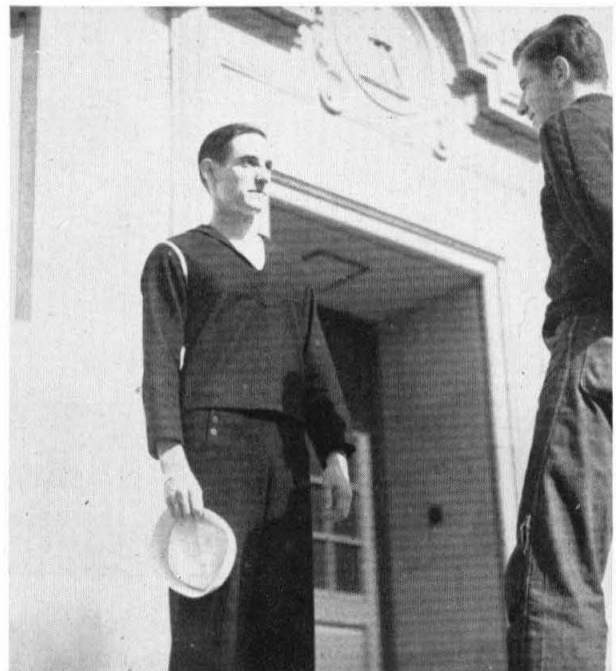


Comlossy

This year's senior class officers included such able men as Roger Clapp, president, John Fleming, Howard Jessen, and Hal Comlossy. As usual, the class held its "Ditch Day" at some unidentified place, but according to the rumors which later floated around, everyone had a swell time. The crowning feat of the year's activities was the planting of sixty square feet of lawn in front of the ME building. The lawn was originally planned as being a subtle hint to the faculty that the student body does not like ivy and ice-plant. The frosh were never given a chance to mow the lawn because of a certain incognito who gave orders to have the lawn removed.



Jessen



Fleming

March Civils

JOHN ARTHUR ANDERSON . . . also known as Andy . . . was born and educated in Long Beach, California . . . came to Tech in 1943 in V-12 . . . Varsity baseball for two seasons . . . co-captain and All Conference pitcher in '45 . . . vice president of ASCE.

PHILIP H. BENTON . . . formerly at Montana School of Mines . . . holds record of longest residence in Ricketts . . . Ski Club's activities closely followed . . . "pH" contends that Utopia consists of the three B's (Belles, Beaches, and Beverages).

ROBERT W. FOOTE . . . on staff of "Eager Beaver" and California Tech . . . a Beaver and Varsity footballer.

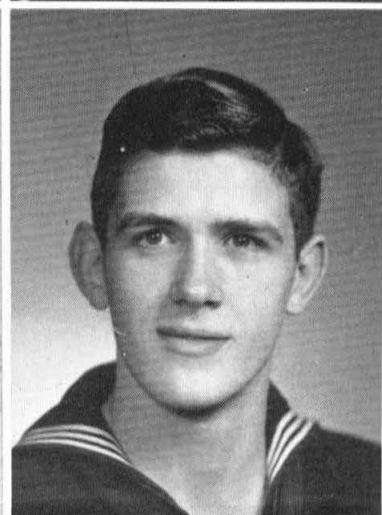
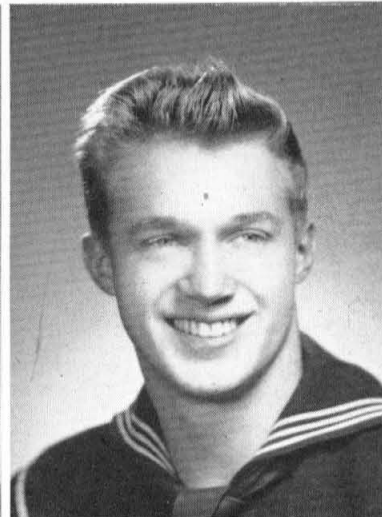
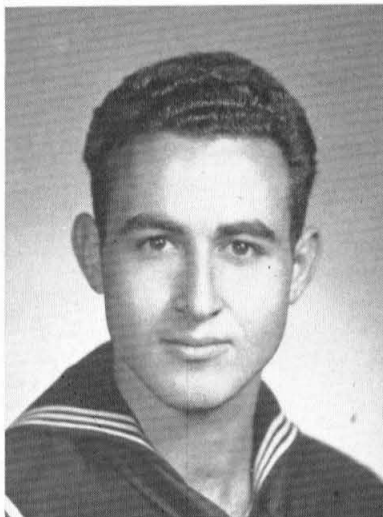
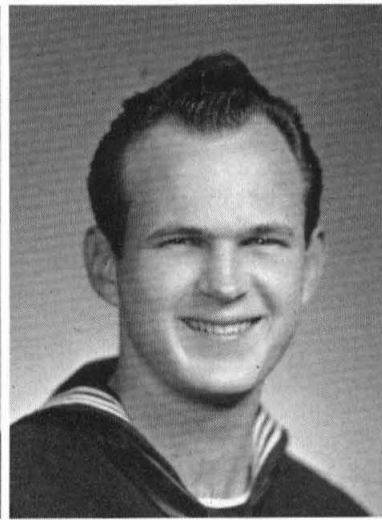
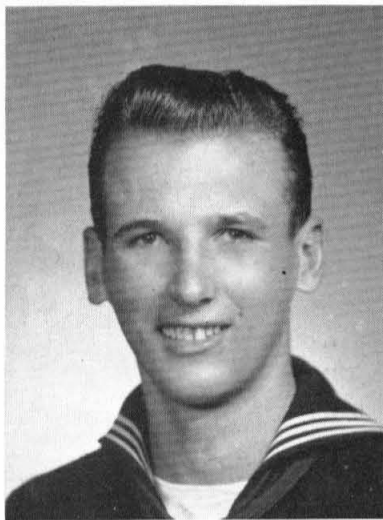
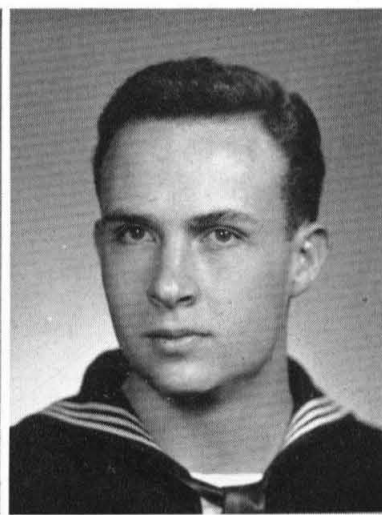
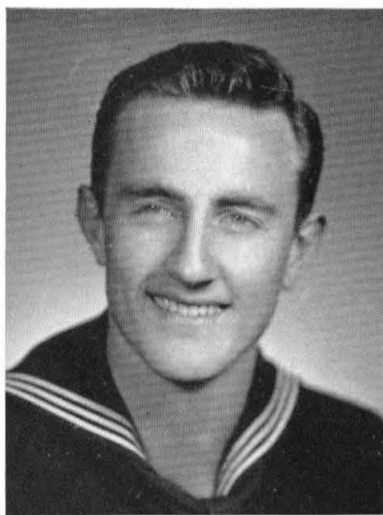
THOMAS LESTER FULLER . . . hails from deep in the heart of Texas (Austin) . . . torn away from Univ. of Texas after frosh year by Tech . . . famed reputation as one of the smoother operators off campus . . . well liked by his compatriots.

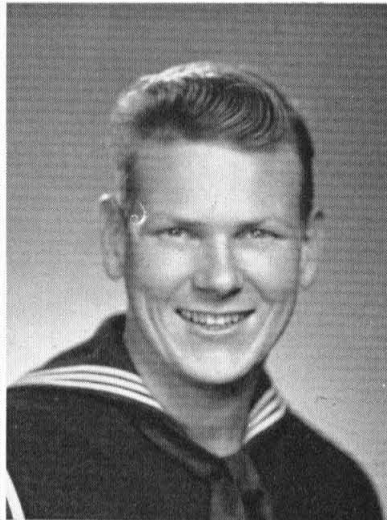
NORMAN A. GOTTLIEB . . . better known as N. A. . . . beach boy and protege of Charles Atlas . . . born in L. A. . . . connoisseur of cuisine . . . great charm with women . . . terror of CE social functions.

DONALD B. HICKS . . . "Hicks" . . . USNR . . . Petty officer of Blacker . . . half aerologist and half CE, mostly bridge player . . . born in Tacoma, Wash. . . . attended Univ. of Washington before coming to Tech in sophomore year . . . earned his letter on '45 baseball team.

HOWARD ELLSWORTH JESSEN . . . local boy from La Canada . . . came to Tech via Univ. of Texas . . . upheld CE's honor by being president of Tau Beta Pi . . . Beaver . . . keen sense of humor . . . music lover . . . personality plus, he is most liked man in section.

PAUL J. JURACH . . . on '45 football and basketball squads . . . deeply interested in construction techniques of dams and bridges . . . looking forward to a successful career in public service . . . hobby is modern philosophy.





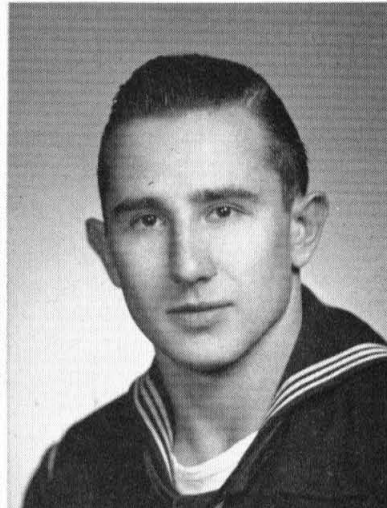
JAMES A. LEWIS . . . attended Shasta High, Redding, Calif. . . . nicknamed "Indigo" . . . interests in reading, writing, architecture, jazz, modern art, and collecting minerals.

WILLIAM H. LIBBEY . . . youngest CE . . . surfed in from Honolulu in '43 to enter Tech as civilian . . . adopted by V-12 three semesters later . . . letters in swimming, football and water polo . . . friendly, easy going chap, he was held in highest esteem by fellow CE's.



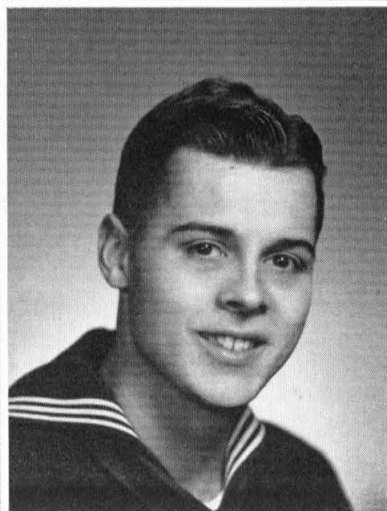
HAL D. McCANN . . . noted for unparalleled wit . . . blessed with Long Beach as home . . . the tall man of the section, he was at Tech for eight semesters as V-12 . . . member of 1945 football team . . . treasurer of ASCE.

JAMES LEE McCARTHY . . . ability with a slide rule surpassed only by proficiency in love . . . dances . . . was on varsity golf team . . . fame rests with his ability to always carry a pack with only one cigarette.



GEORGE D. MEIXNER . . . excelled as Long Beach "beach boy" . . . famous for his various "gags," i.e.: smoking, snaking, coffee drinking, clean living and continuous efficiency . . . the "true Tech man" . . . disclosed reputation as "wolf."

STANLEY H. MENDES . . . the little orator . . . "I didn't come here to bury Ma Wheeler" . . . footballer and hurdler par excellence . . . ex Oxy man . . . Beaver . . . well liked by all.



GEORGE R. POOL . . . loyal son of Arizona . . . builds model bridges . . . carries a pipe that has never been smoked . . . chief rabble rouser in his classes . . . noted for his quiet modulated voice (joke).

JERRY H. RICE . . . "sunshine" . . . from Washington U. . . enlightened lives of classmates with vocalizing talent . . . lightened comrades lighter moments by witty pessimism: "It'll rain by noon."

JOHN E. RICHTER . . . hails from Los Angeles . . . former V-12 student "O'Roony" . . . vice president of ASCE.

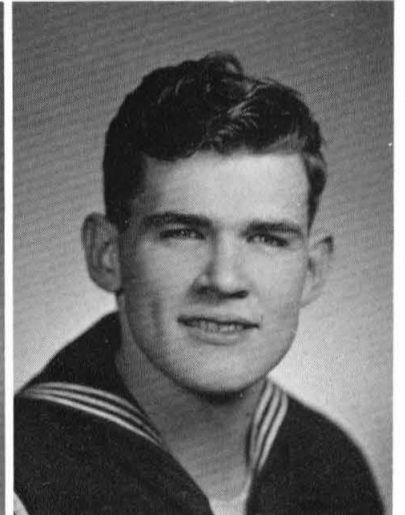
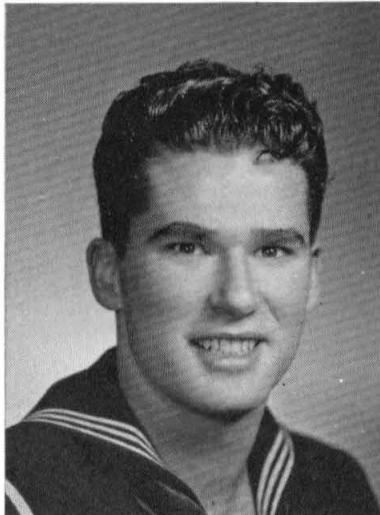
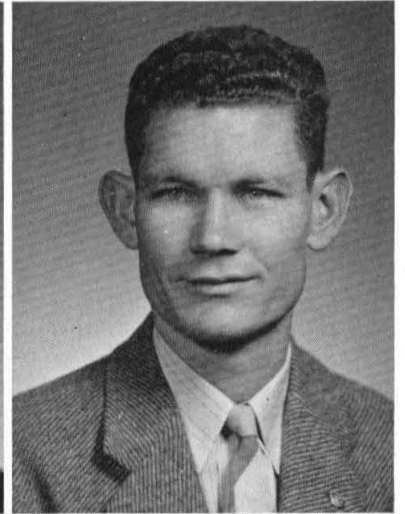
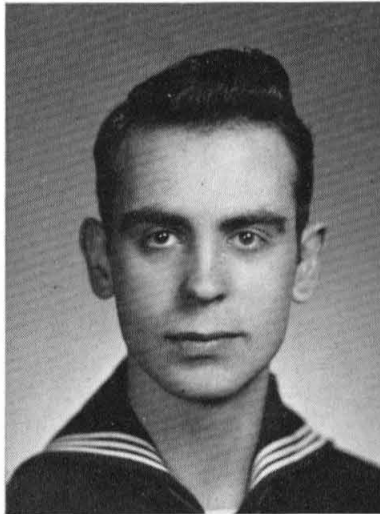
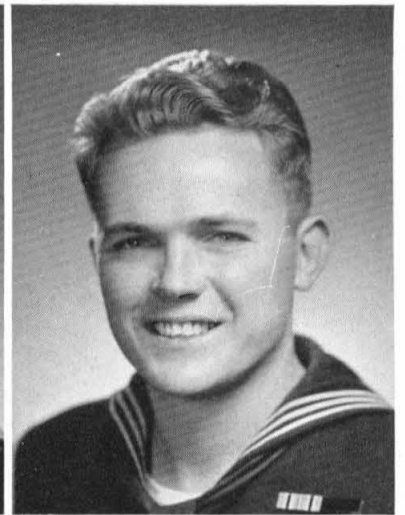
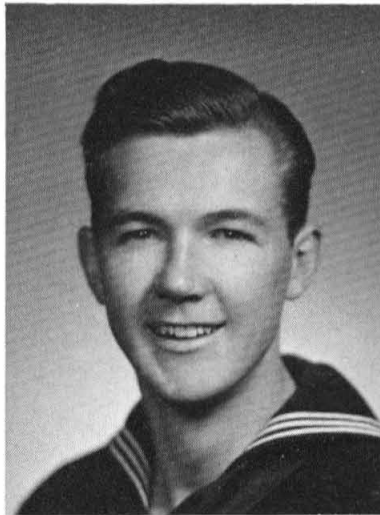
WILLARD A. ROSS . . . "silent Will" . . . one of harder working CE's . . . a stabilizing influence on the antics of his more hilarious classmates.

ELMER R. SHEPARD . . . Wanalchee native . . . CE with definite architectural tendencies . . . philosopher at heart . . . an artist, dabbling in pastels and poetry . . . profficient in sack duty.

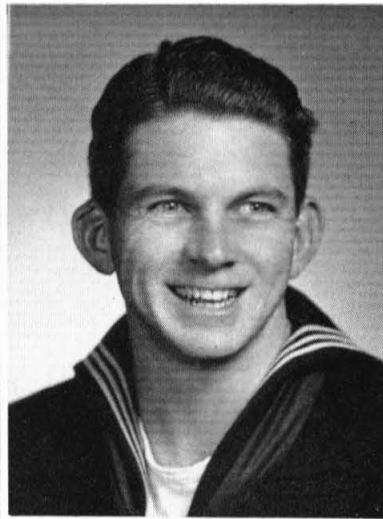
ELLIOT O. STEPHENSON . . . better known as Pappy due to his three year old son who attends classes with him . . . member of Tau Beta Pi . . . president of ASCE . . . vice president of Tech Vets . . . saw action on New Guinea in Army.

WILLIAM C. STOOKEY . . . "curley Bill" . . . "Liberty Lieutenant" . . . gin, gals, and Goodman . . . started at Montana School of Mines.

RICHARD C. WARNER . . . first year at Univ. of Alaska . . . interests in construction of dams and bridges, water supply, and logging.

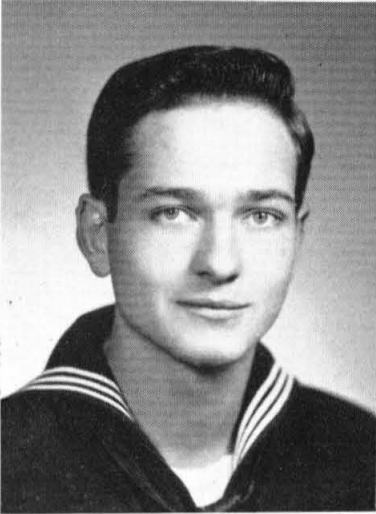


March Civils



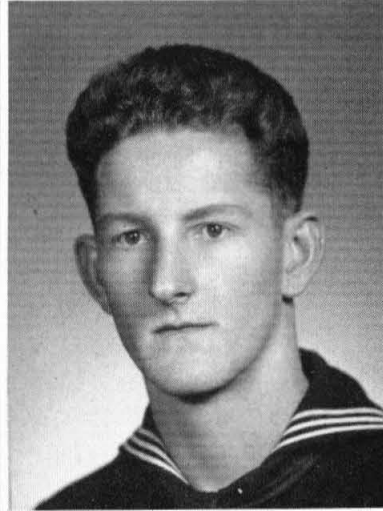
WILLIAM C. ALLISON, Jr. . . . "Wild Bill" . . . problem child of Pacific Northwest . . . hails from Washington State . . . hunting and fishing enthusiast . . . AIEE.

STEPHEN W. BABCOCK . . . Pomona bred . . . alias the "Stride" . . . amiable . . . combines enthusiasm for radio with love of great outdoors . . . favorite game—chess . . . detests ice skating . . . IRE.



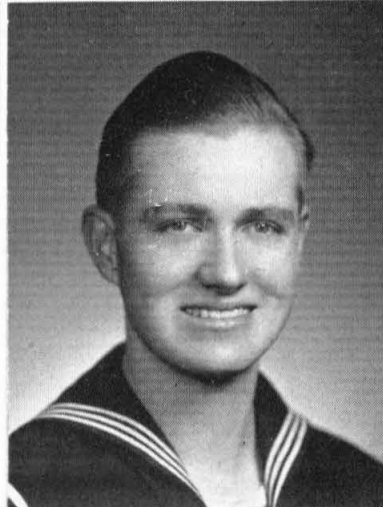
GEORGE W. BARTON . . . happy intellectual . . . civie in frosh year . . . "The Voice" . . . vocalizes at Oxy and PPC, even on radio . . . likes Varga wallpaper . . . keeps Bell System solvent . . . IRE . . . Tau Beta Pi member in junior year.

HARVEY H. BRINKHAUS . . . hails from Brooklyn, N. Y. . . formerly attended Arizona State Teacher's College . . . member of AIEE and IRE.



ELMORE G. BROLIN . . . participated in varsity basketball and football . . . officer of V-12 battalion . . . AIEE . . . received Wheaton Football Award . . . plans to get a M.S. degree.

CHARLES E. BURDG . . . quantities of radios and oscilloscopes are manufactured in the Burdg-cage . . . glee club standout . . . Navy lured Chuck from soph class and Ma Wheeler's chow line to become Dabney's bugler . . . AIEE and IRE.



JOSE C. CHAVEZ . . . "Joe" . . . strict jive-hound and jitterbug . . . secretary of IRE . . . well liked . . . envies CE's with their carefree, outdoor existence . . . lives in the B-50 recreation room.

REXFORD R. CHERRYMAN . . . backstroke sensation, whizzing through South. Cal. Conf. meets . . . interested in photography . . . livened lectures with his quips.

Electricals

ROGER W. CLAPP . . . "Roger the Lodger" was president of senior class . . . top notch sprint man for two years . . . Beaver . . . IRE, AIEE, Ski Club, and Radio Club member . . . present ambition: discharge.

WILLIAM A. DAVIS . . . quiet, unassuming, good-natured fellow . . . divides time between Tech, the Constance, and "that certain girl" . . . trackman . . . active member of AIEE.

CHARLES W. DICK . . . has been Student Body secretary, officer in V-12 battalion, and received the Honor Key . . . nominated to "Who's Who Among Students in American Colleges" . . . member of YMCA and AIEE, ex-Throop Clubber . . . broke the ice each day for water polo.

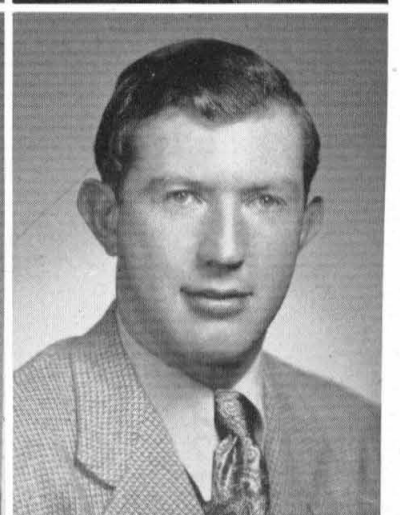
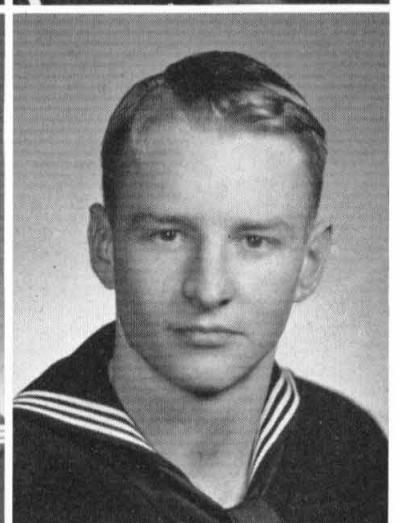
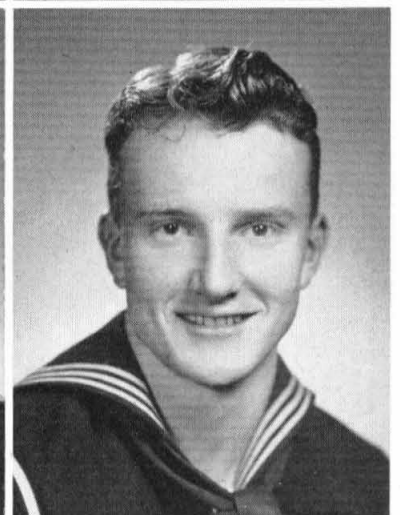
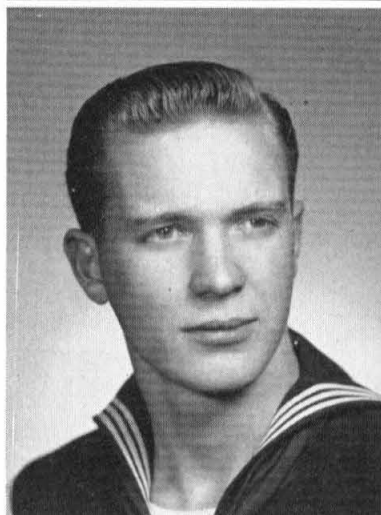
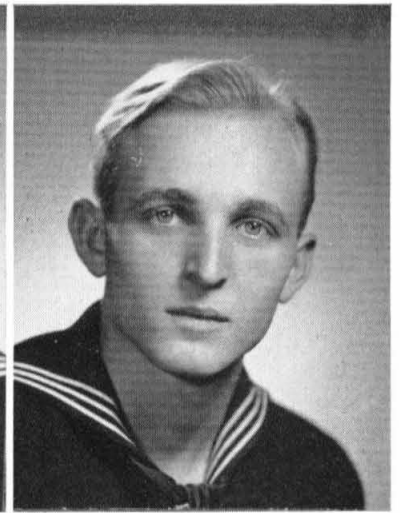
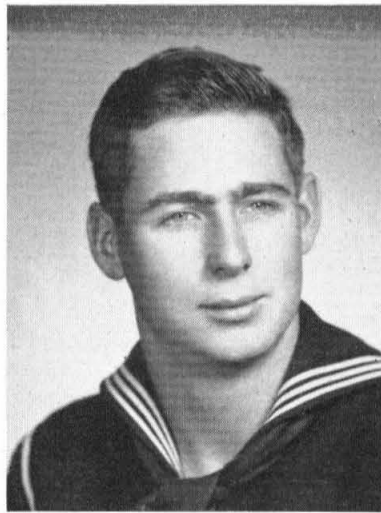
BERT W. DOWNS . . . one of few V-12 to go all the way at Tech . . . known for genial friendliness and pleasing sense of humor . . . member of swimming team . . . chief M. A. in V-12 battalion . . . Tau Beta Pi and AIEE.

DONALD A. DUNN . . . civie frosh . . . ex-poker player . . . ex-chemist . . . can be smooth—without that "five o'clock shadow" . . . Ski Club and IRE . . . feature editor of "Big T".

JEROME P. DYSON . . . "Pierre" . . . thumps out bass with Stewart Heptet . . . IRE and AIEE . . . ACS and Chem Club . . . Musicale . . . member of swimming team—almost drowned . . . principal interest: Chemistry . . . spends leaves in great outdoors . . . "Big T" staff member.

JAMES C. EVANS . . . "J. C." or "The Kid" washes his face with a straight razor . . . stole a little time from Mary Ellen to study . . . one of few Ski Club members who skis . . . IRE . . . Musicale . . . football manager and hurdler in track . . . "Big T" staff member.

FLOYD C. FISHER . . . hails from Diamond Springs, Calif. . . attended USC before coming to Tech . . . hobbies are fishing, hunting, and photography.



March



ROBERT FROHMAN . . . "Tiger" still found time for notorious bridge sessions while carrying one of class' heaviest schedules . . . frosh civilian . . . Musicale and PKD . . . IRE . . . snakes for everything including strength tests.

HOWARD L. GREENFIELD . . . burns the 0300 oil . . . social beaver . . . BIG man on campus . . . specialty is hotfoots . . . has been known to doze . . . delights in illuminating his room—brilliantly.



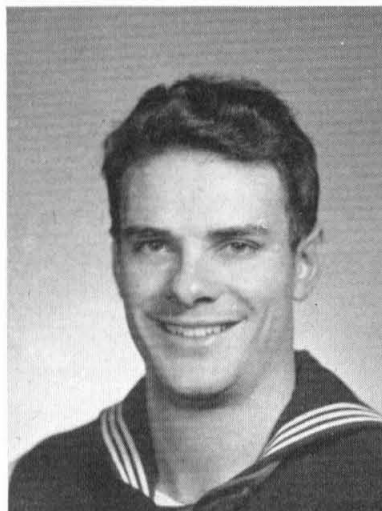
DONALD J. HASS . . . a local blue eyed, blonde . . . member of V-12 band.

WILLIAM F. HORTON . . . the Lemon King . . . avid tennis player . . . physicist at heart . . . another frosh civie . . . IRE and vice-president of AIEE.



GEORGE HUFFORD . . . as one authority said about George, "When he was a lad, his father said 'son, mediocrity is the worst word in the English language—never be mediocre.' He never was."

JEROLD R. IRELAND . . . the laughing boy . . . came to Tech as civilian frosh from seaside home in Santa Barbara . . . enjoys all sports . . . IRE and AIEE.



JACK L. JENSEN . . . escapist from USC . . . disliked Navy as much as Caltech . . . brown eyes around on leave . . . leads quiet and sedate life.

LOUIS K. JENSEN . . . "Low Louis" . . . ASB treasurer . . . YMCA officer . . . made Tau Beta Pi in soph year . . . secretary of Beavers . . . has a fine jazz library . . . Radio Club, Ski Club, IRE member . . . on swimming squad . . . spare time taken up with designing and building his own electronic brain-children.

CALVIN E. KEMPTON . . . interested in amateur radio . . . Radio Club . . . desires to invent as a boon to humanity . . . got his Atlas physique by lifting weights . . . haunts the Friday night dances.

RICHARD P. LAGERSTROM . . . "Lagerbutt", alias "Mortsregal" . . . frosh civie from South Pas . . . senior editor of "Big T" . . . IRE and Radio Club . . . football . . . Beaver . . . secretary-treasurer of Ski Club.

RICHARD GRANT LEVIN . . . another bright boy with the bell-bars . . . "88 Keys" Levin expects an honorary degree in Horizontal Engineering . . . IRE and AIEE . . . a fine fourth in cross country.

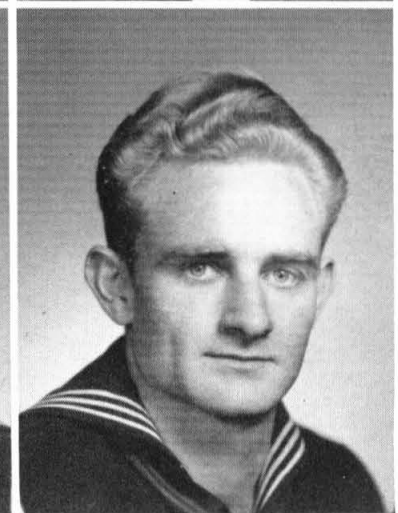
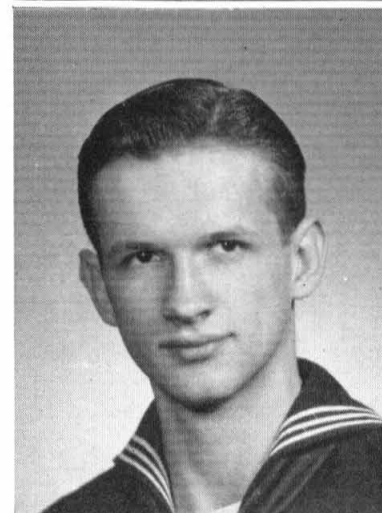
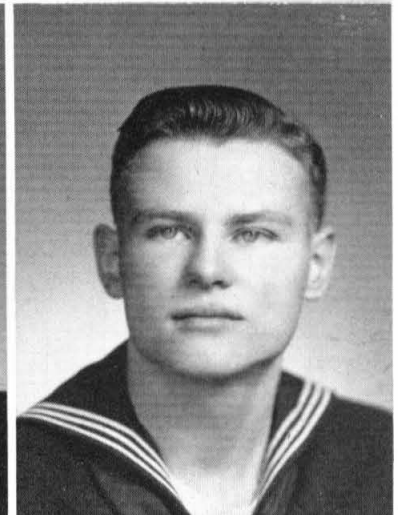
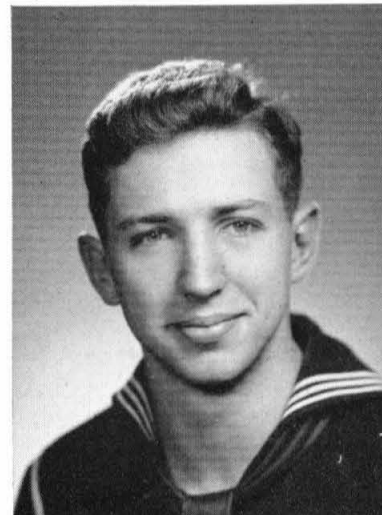
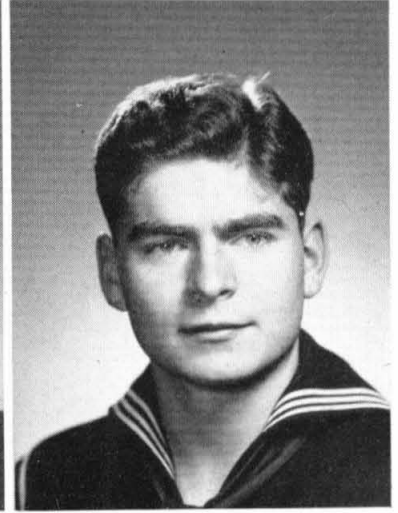
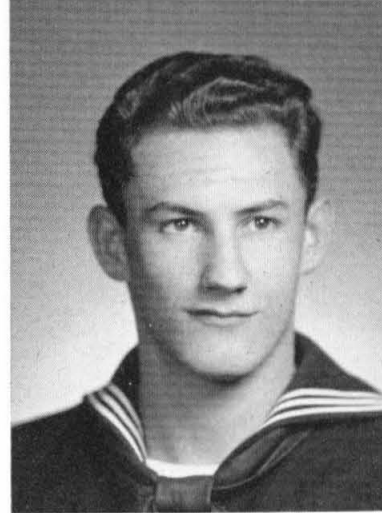
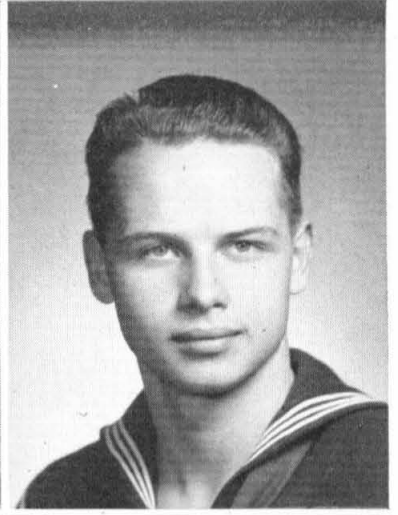
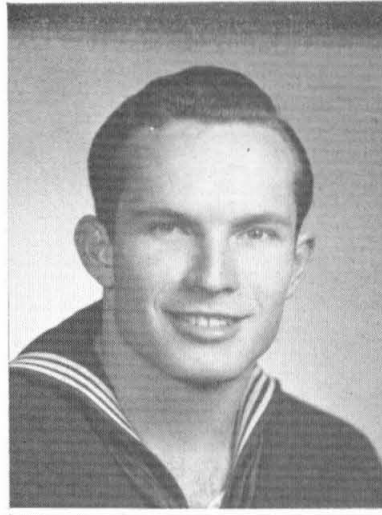
CASSIUS R. McEWEN . . . helped bring back IRE to Tech and is now its chairman . . . member of Ski and Radio Clubs . . . blew down from the Northwest dragging his skis behind him . . . one of most popular members of senior class.

EDWARD G. NEALE . . . "Ted" . . . gags, gags, gags . . . funster from San Fernando Valley . . . IRE . . . football and track . . . Radio Club . . . animal husbandry expert—would make a fine husband for some beautiful creature . . . plans career in advertising.

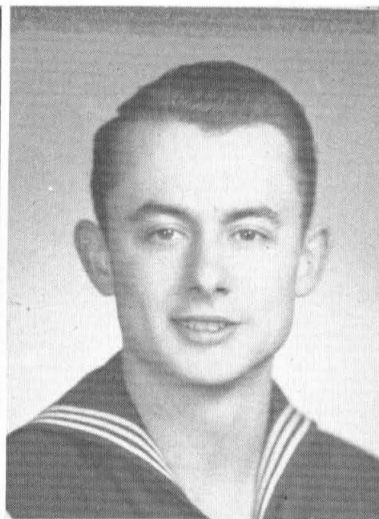
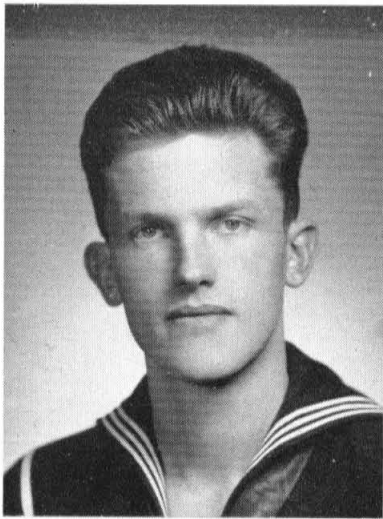
DAVID B. NEILSON . . . "D.B." . . . "Big T" photographer . . . diversified reader . . . has radical but unprintable opinions about Tech's textbooks . . . chess and bridge expert . . . plays tennis . . . IRE . . . 8 semesters of Navy life.

STANLEY R. NIXON . . . president of AIEE and member of Tau Beta Pi . . . Honor Key . . . nominated to "Who's Who in American Colleges" . . . water polo . . . First Representative of ASB . . . officer of V-12 Battalion.

FLAVIUS M. POWELL, Jr. . . . "F.M." . . . a radio ham . . . IRE, AIEE, Radio Club and Ski Club member . . . football for two seasons . . . joined Navy in '42 . . . Came to Tech in '44 . . . thorough-going civilian by now.

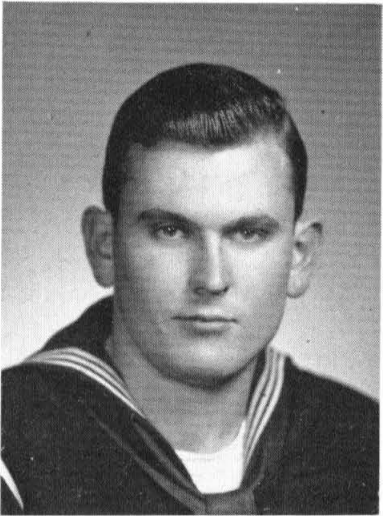


Electricals



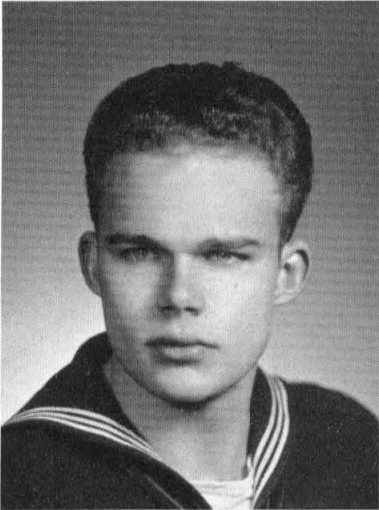
EBERHARDT RECHTIN . . . "Ebbie" . . . secretary of Tau Beta Pi . . . violinist and member of Pasadena Civic Orchestra . . . member of Musicale, AIEE, IRE . . . platoon leader . . . cross country . . . Industry is his middle name.

RASTON REICHWEIN . . . "East" . . . a staunch "Skip"-man . . . discovered skiing while at Tech . . . plays Malaguena on the piano . . . takes sixteen units of "East's" Bridge.



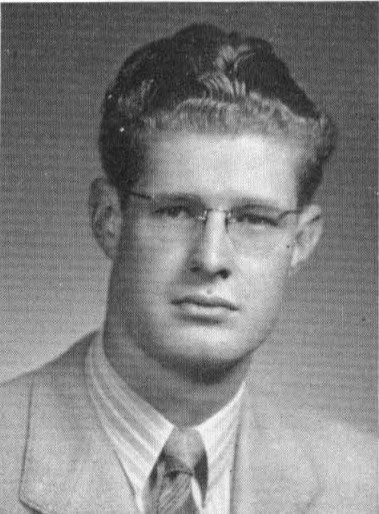
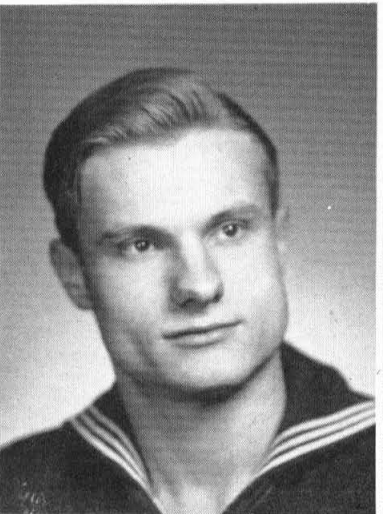
KENNETH W. ROBINSON . . . an academic standout—Poppa Potts' star student . . . finds relaxation in golf and photography . . . plans creative future in EE . . . IRE . . . AIEE.

HERBERT N. BOYDEN, III . . . "Herbie" a skiing zealot . . . frustrated physicist . . . noted for playing it close with registration committee . . . passion for classical music—evidence: large record library . . . pianist . . . Ski Club, IRE, and Radio Club member.



RICHARD P. SCHUSTER, JR. . . . Ipana for the smile of beauty . . . IRE, YMCA, Radio Club member . . . football . . . super-gloss and beach-boy . . . S-T-A-N-F-O-R-D . . . plans return to Tech for Applied Chem degree . . . connoisseur of good jazz.

JOHN D. SEAGRAVE . . . came to Tech on A.C.S. scholarship . . . V-12 transmogrified him into an EE . . . AIEE, Musicale, Glee Club member . . . captivated by music in general . . . composes and sings . . . lives in Pasadena . . . cultured!



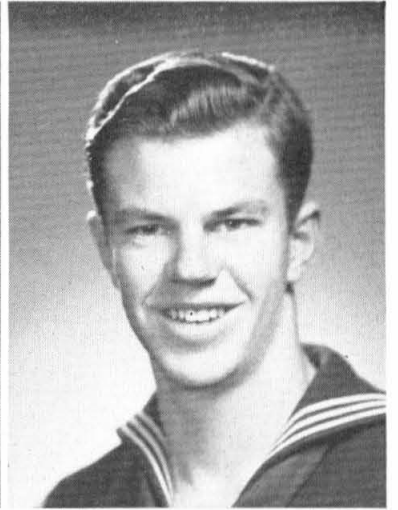
ROBERT F. SENSIBAUGH . . . "R-F" . . . ASB president . . . YMCA vice-president . . . ASB secretary . . . Beaver . . . water polo . . . honor key in junior and senior years . . . old L.A. High man . . . plans future in industrial management.

RICHARD A. SMITH . . . a rare phenomenon among Tech theorists . . . a practical engineer . . . member of Musicale, Radio Club, IRE, and AIEE . . . best known for his height—6 feet 7 inches.

Electricals

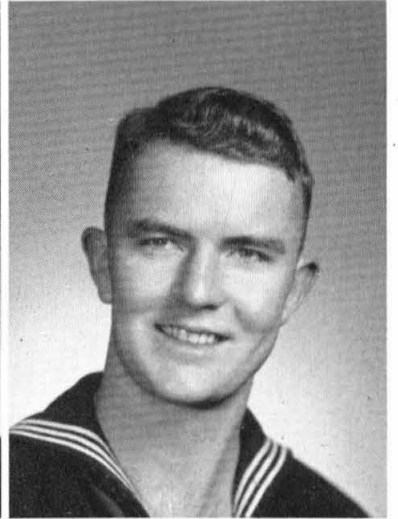
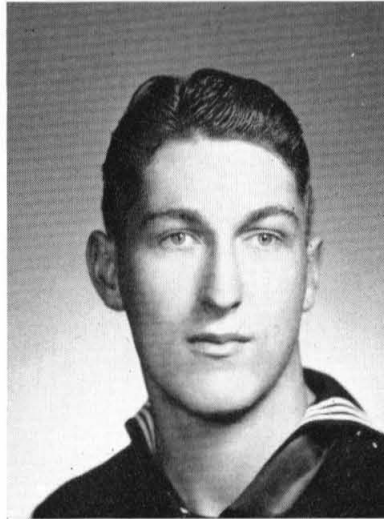
ALAN R. STEARNS . . . even though he did best to raise average in EE, still one of best liked men in his section . . . winner of Wheaton Football Trophy . . . honor standing in last two years . . . AIEE . . . plans to continue on at Tech and get his M.S.

JOHN E. TABER . . . "Jet" . . . an electronic idea man . . . IRE . . . football . . . has a yen for a life in the open . . . Burbank boy . . . helped put over the Junior-Senior Prom . . . has helped many another social function.



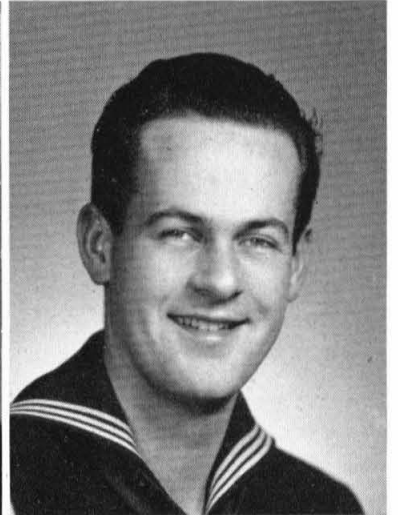
ORISON WADE . . . joined Navy unit after three years as civie . . . Tau Beta Pi . . . IRE and secretary of AIEE . . . purveyor of excellent files . . . participant in interplatoon sports . . . avid hiker and fisher.

MILTON G. WEBB . . . an intellect with a plebian vent . . . track man . . . IRE . . . eight semester "old hand" . . . has been known to crack tests, frequently . . . holds a third interest in Greenfield, Blackman and Webb, Inc.



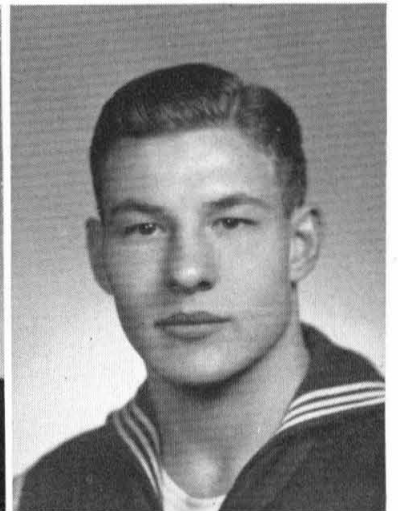
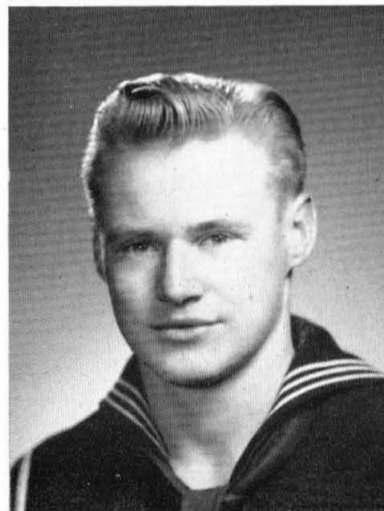
REV. L. CLYDE WERTZ, S.J. . . . attended Santa Clara . . . obtained M.A. at Gonzaga . . . member IRE, AIEE, Tau Beta Pi . . . plans to teach science at Loyola.

TECK A. WILSON . . . "T.A." . . . Tacoma to Tech . . . California Tech Staff member . . . Beaver . . . IRE and Radio Club . . . AIFF . . . wants a degree, commission, wife, discharge, and a par golf game—he's so different!

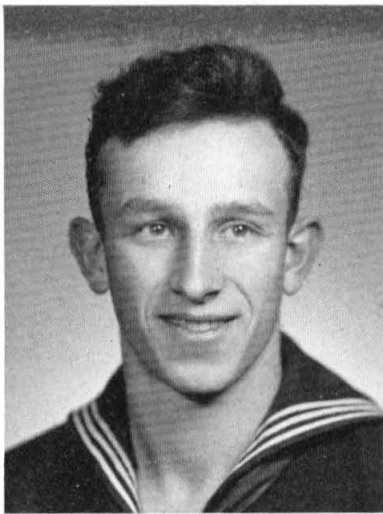
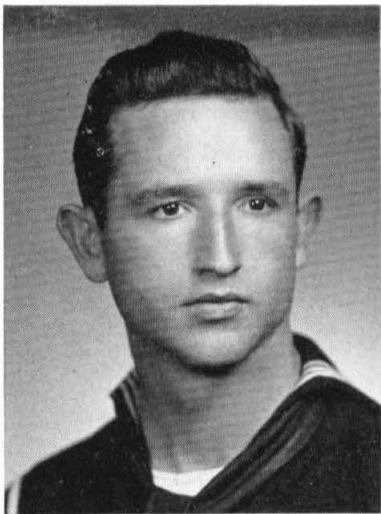


HARRY S. WOLBERS . . . transferred from civie to V-12 status at end of frosh year . . . "Big T" staff . . . one of officers of V-12 battalion . . . plans to receive a master's degree in business administration at Stanford.

JERRY F. WOZNIAK . . . "Woz" . . . big activity man . . . ASB athletic manager and Rally chairman . . . sports editor of "Big T" . . . business manager of California Tech . . . Beaver . . . football standout for two years . . . helped organize Varsity Club.

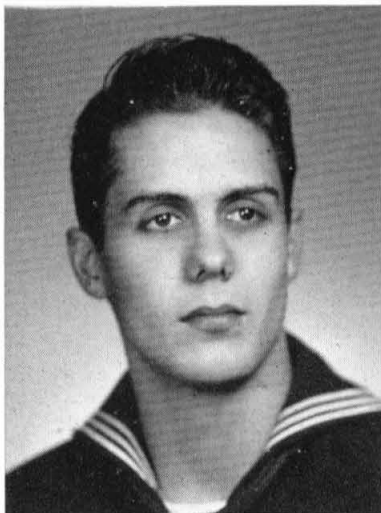


March



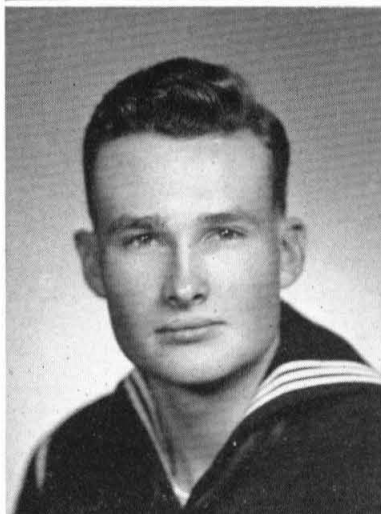
BENJAMIN L. AUSTIN . . . "Bengie" . . . member of SAE and Varsity Club . . . baseball and basketball manager . . . football . . . will be remembered for being first member of class of '46 to leap out of the frying pan into the fire.

STUART R. BATES . . . "Stu" . . . 2 years track letterman . . . Varsity Club . . . 3 year basketball letterman . . . expert juggler since kindergarten days . . . definitely the athletic type . . . will be remembered as most completely relaxed man on campus.



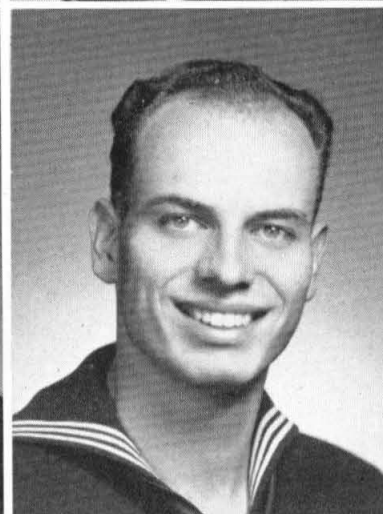
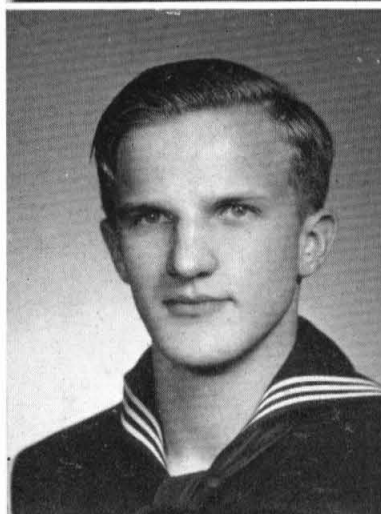
PAUL G. BISSIRI . . . "Bizz" . . . ASB vice-prexy . . . Board of Control chairman . . . track and cross country manager . . . football . . . member of Tau Beta Pi, SAE, and ASME . . . Honor Key . . . noted for resistance to any sort of activity.

ERNEST H. CLARK . . . "Hubie" . . . 2 years of football, winner of Wheaton Football Trophy in '45 . . . Beaver . . . ASME, Tau Beta Pi, and Varsity Club member . . . served on Calif. Tech . . . noted for making highest grades with least effort . . . Honor Key.



HAROLD COMLOSSY . . . "Handsome Hal" . . . SAE and ASME member . . . held highest V-12 student officer post . . . senior class treasurer . . . elected most popular man with UCLA's Pi Phi House . . . aspired to track and tennis . . . BMOC.

ROBERT H. CONRADT . . . "Condor" . . . letter in swimming . . . Varsity Club . . . ASB Publicity Manager '45 . . . editor of "Eager Beaver" . . . Horizontal Hugh . . . famous for sarcasm . . . SAE . . . Honor Key . . . drummed with Rex Stewart Corubo . . . music follower and sketch addict.



THEODORE H. DEHNKE . . . born in Harrisville, Michigan . . . came from the University of Michigan . . . in Newport with the rest of the gang.

JAMES E. DENSMORE . . . "Jim" . . . SAE, ASME, Tau Beta Pi member . . . lettered in track and cross country . . . junior class prexy '45 . . . ASB Publicity Manager '44 . . . active leader of V-12 band . . . Varsity Club . . . Honor Key.

KEITH DOIG . . . just plain "Doig" . . . member of SAE and ASME . . . senior football manager '45 . . . majored in bridge and poker . . . prefers co-education (don't we all).

DOUGLAS S. ELLIS . . . hot guitar plucker and rabid exponent of "Dixieland" jazz . . . remembered for undisguised loathing for incompetent instructors—"I hate Caltech, I hate Caltech, I hate Caltech . . .", intends to obtain MS in psychology from Oxy.

JOHN E. FLEMING . . . "Flem" . . . ME's claim to fame . . . secretary of Tau Beta Pi and chairman of SAE in '45 . . . senior class secretary . . . selected perpetual section leader and faculty appeaser . . . noted for writing pointed open letters on pertinent matters . . . 4.0 all around . . . an ex-Stanford man who's more interested in Scripps.

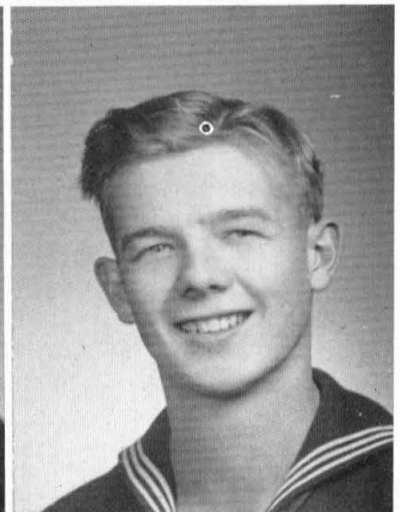
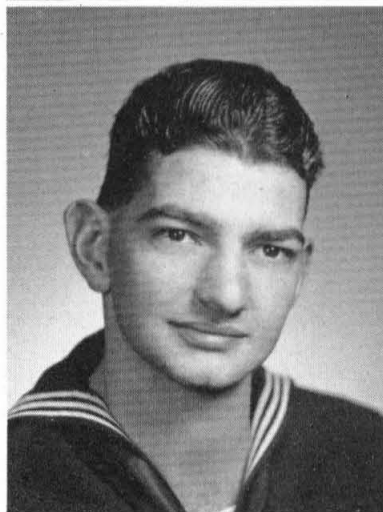
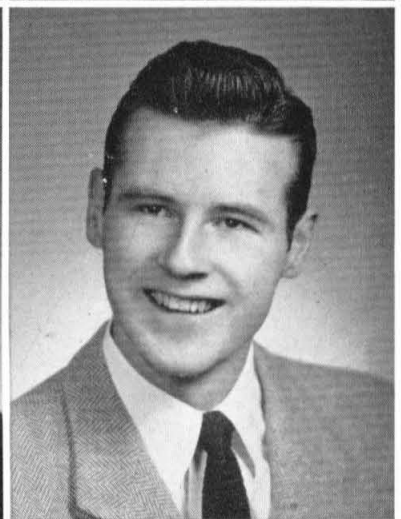
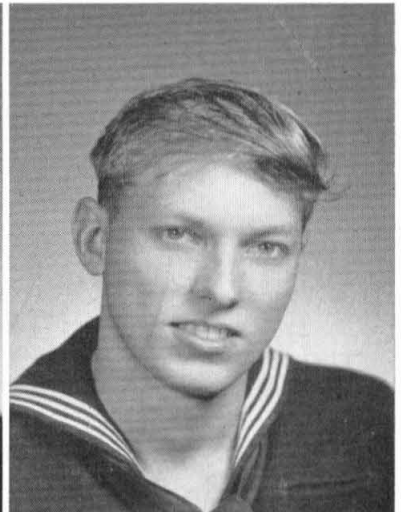
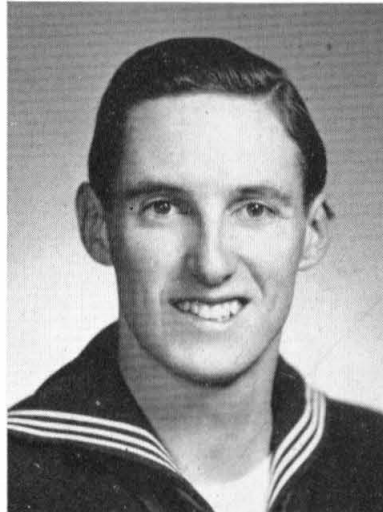
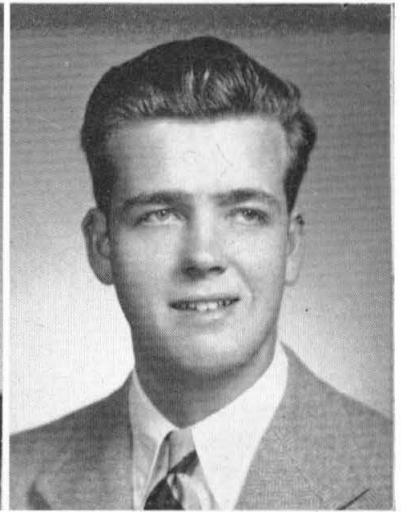
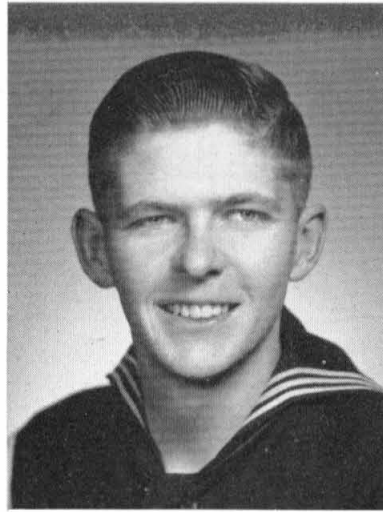
DONALD G. FURST . . . quietest living man on campus—noted for making the highest grades with the least noise . . . track man . . . SAE and ASME . . . Tau Beta Pi . . . a most fortunate V-12, er—he got out.

GEORGE S. GILL . . . lettered two years in track, one year in cross country . . . member of Varsity Club and Beavers . . . an outstanding miler in Southern Calif. . . always seen with either letter to "Dodie" or "Astounding Stories"—sometimes both.

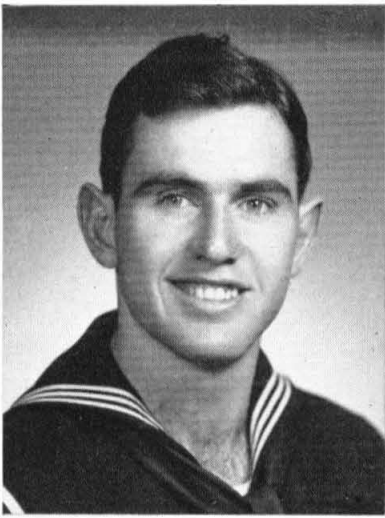
PHILIP E. JENSEN . . . recognizes no necessity for "muscle-man" type . . . Tau Beta Pi and Beaver . . . Throop Club . . . varsity basketball . . . noted for political intrigue and zany cracks . . . if not studying, locating "material".

ALBERT O. KLEIN . . . "Al" . . . SAE . . . has been a mainstay as clarinetist with V-12 band for eight semesters . . . noted for industriousness, persistence, and high grades—with a quiet sense of humor.

FRANK H. LAMSON-SCRIBNER . . . "L.S." . . . member of SAE, ASME, and Glee Club . . . participated in water polo and La Jolla rough water swim . . . noted for asking and answering questions.

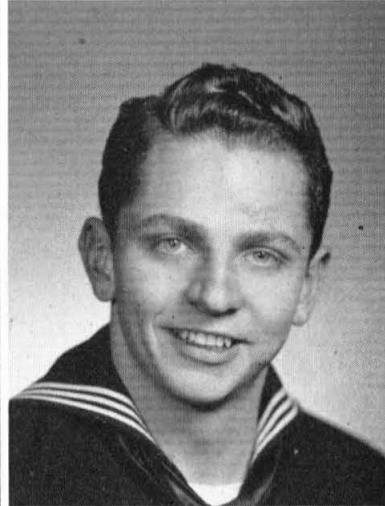
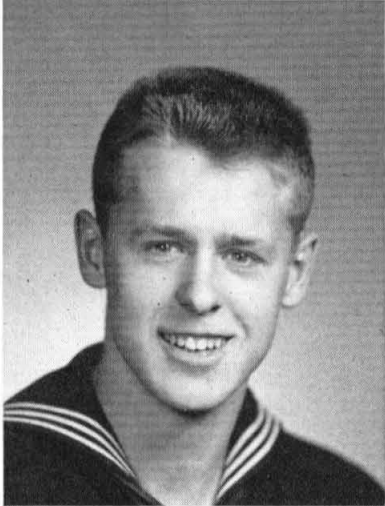


Mechanicals



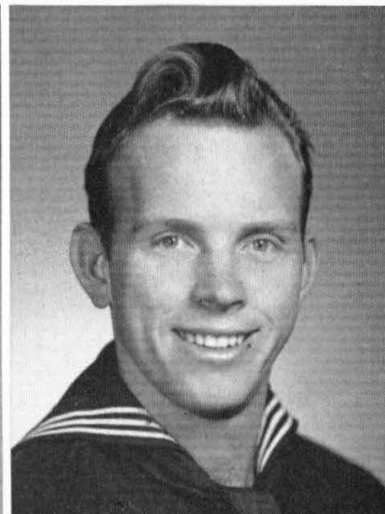
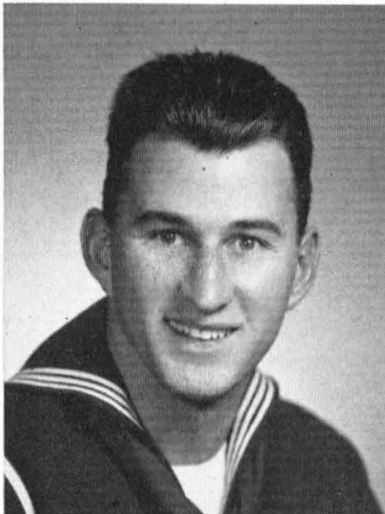
GEORGE W. LYON . . . "Tex" . . . letter in football '45 . . . member of ASME and Varsity Club . . . "scusemy southern slur, but Texas is the only place worth coming from" . . . noted for military bearing.

PAUL J. MUZYCHENKO . . . "Muzzy" . . . ASME . . . noted for faculty baiting and speed (not with the track team) . . . rated most important man in V-12 unit because of morning newspaper service . . . known as the bartender's friend (universal).



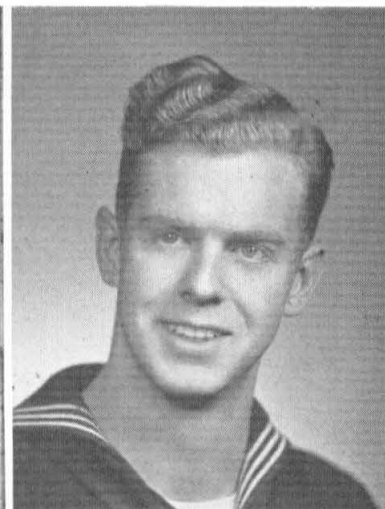
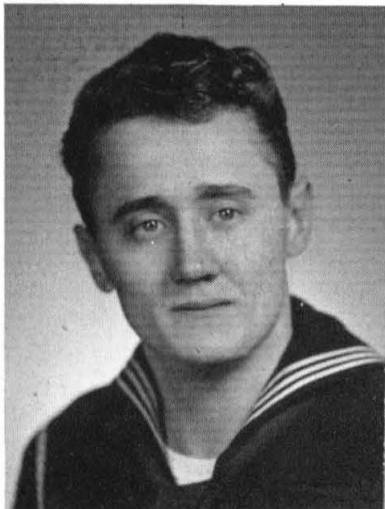
VINCENT W. NURRE . . . "Vince" . . . two years basketball, one year football . . . Varsity Club and ASME . . . on "Calif. Tech" and "Big T" staffs . . . acted as kibitzer for the "Eager Beaver" . . . an Iowa boy who likes hunting and fishing.

DONALD E. ROOT . . . "Root" . . . letter in football . . . member of SAE, ASME, and Varsity Club . . . most famous for gags and over powering nose . . . last remaining member of the Oaf Club . . . a Platoon Leader—platoon leader, that is.



HAROLD L. SARMENTO . . . "Hal" . . . member of SAE and ASME . . . basketball manager '44 . . . Ricketts Company Commander . . . best known as custodian of the cokes.

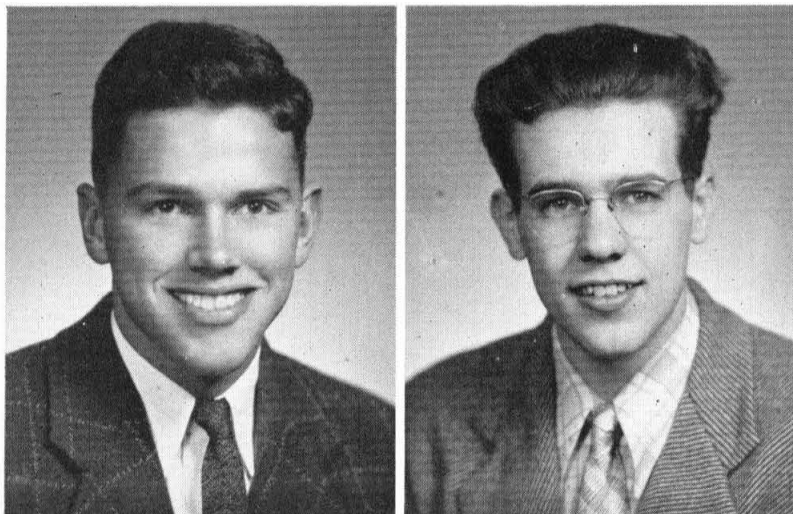
PERRY SHAFFER . . . a semi-local boy, being born in Ontario, California . . . Navy turned him into an ME.



JOHN SUTYAK . . . "Salty" . . . Tau Beta Pi treasurer . . . ASME student chairman . . . lettered in baseball . . . member of SAE and Varsity Club . . . the Pirate from Pittsburgh made his degree in seven semesters . . . major hobby is music.

GEORGE R. WATT . . . "Lover" . . . member of SAE and ASME . . . affable George . . . "if it's a gag, I'll kick it around—trigger quick response, what?" . . . noted for tennis, i.e., he beat Conradt.

March Mechanicals



ROBERT A. BOWERS . . . "King" Bowers has led a hectic life . . . top-notch tennis player . . . night life fiend who has been "king pin" of many an undertaking . . . rekknown for wide-awake look . . . about to take the "great step."

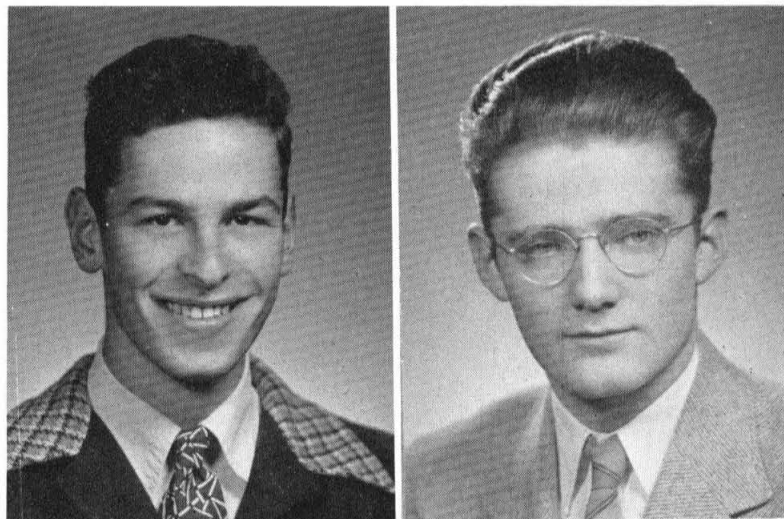
ROBERT A. GOLDING . . . hails from Long Beach . . . he is the only man known to bring pajamas to Professor Lacey's lectures . . . as a member of the Chem Club and Throop Club, Bob has become known for his friendly personality and his knowledge of P.E. . . . look for him playing poker with Webber.

March Applied Chemists

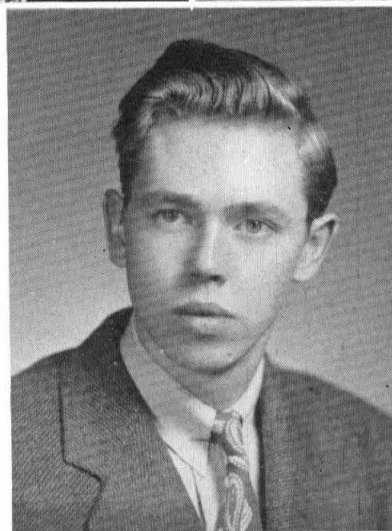
March Chemists

EDWIN GOULD . . . purveyor of the latest sane, insane, and otherwise jokes . . . has shattered more lab instructors' and teachers' nerves by his "ingenious" and "phantastic" experiments . . . a hard working Throop Club executive.

JOHN W. GRYDER . . . a quiet "pure chemist" who is scholastically tops . . . known as "Grider" . . . hails from "distant" L.A. . . . Tau Beta Pi . . . a good friend to ask "what's cooking?" and a good man to confuse fellow chemists.

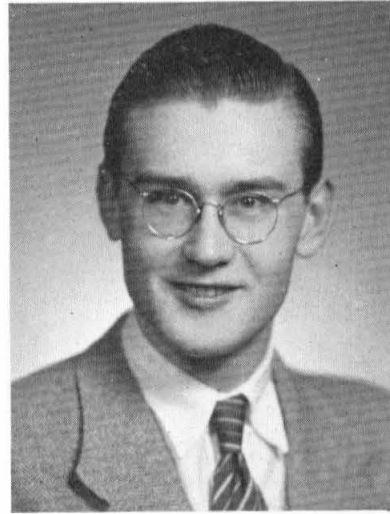


JOHN S. SHOWELL . . . "Shovel" has one of the best dispositions in the senior class . . . his laugh is an institution . . . president of Chem Club and member of Musicale . . . will do post-graduate work here.

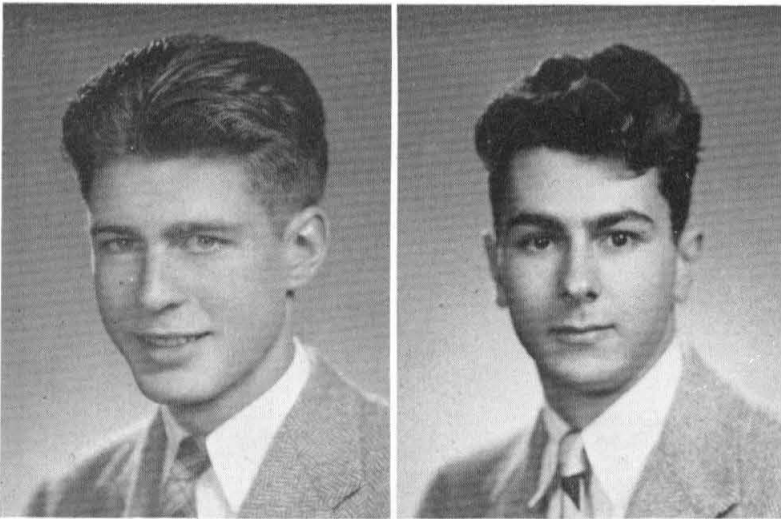


March Mathematician

LINCOLN K. DURST . . . hails from Santa Monica . . . alternated schooling at UCLA and Tech . . . made Phi Beta Kappa and B.A. from former . . . member of Musicale and American Mathematical Society.

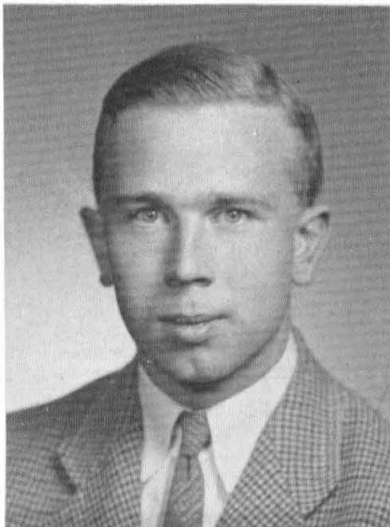


March Physicists



JAMES A. CULLEN . . . from Missoula, Montana . . . attended Pepperdine . . . saw service in Navy between soph and junior years . . . member of Musicale . . . Tau Beta Pi.

SERGE LANGE . . . a geologist turned physicist who plans to become a historian . . . an exponent of the cautious sand-bagging school of poker . . . an ardent Musicale member and general music authority . . . optimistic bridge player . . . famous for "boo".



CARROLL A. WEBBER, JR. . . . one of the two best poker players and bluffers on campus . . . Tau Beta Pi . . . high politics man . . . member Throop Club inner circle . . . an early enthusiastic golf player and mountain climber.

June Aerologists

DENNIS J. AHERN . . . held a spot on the Tech line for two seasons . . . can be seen exercising at the Track . . . known as a good sport and liked by all . . . went to Univ. of South Carolina.

DALE E. BEMENT . . . made his letter during his first cross-country try . . . one of the biggest, if not the biggest operator on the campus . . . can usually be seen with Mona Jones.

EDWARD E. CARR . . . attended Berkeley, UCLA, and Valley City State Teacher's College in North Dakota . . . lettered in cross-country . . . postwar interest: "Diplomatic service."

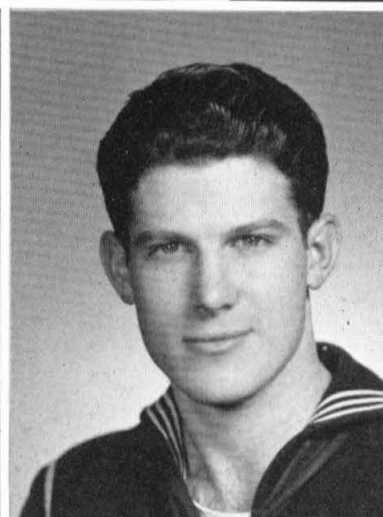
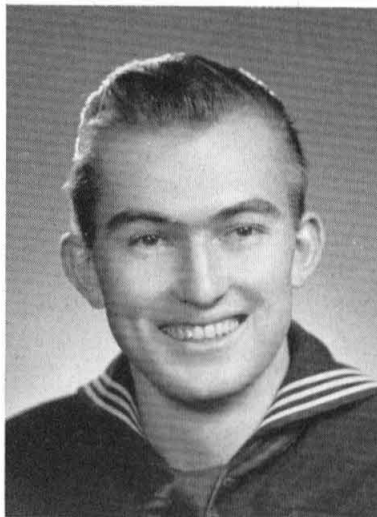
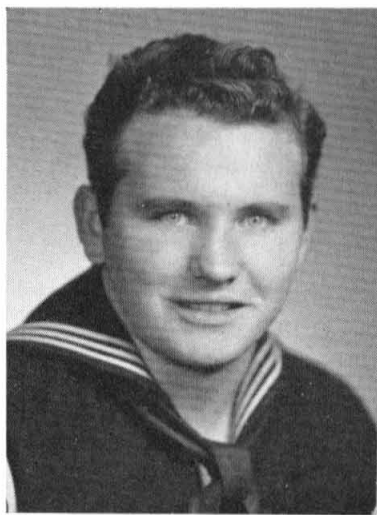
LLOYD W. CHAMBERLAIN . . . aerology transfer from Ursinus College in Pennsylvania . . . mighty might on Tech's football machine . . . Varsity Club . . . currently setting female hearts in Southern Cal. af flutter with that "back east" charm of his.

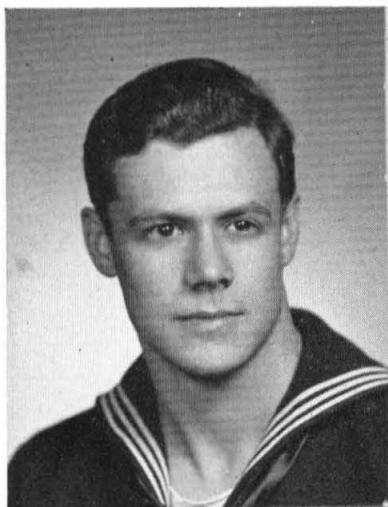
BERNARD E. DETHIER . . . Bernie whisked from Harvard by Navy to enjoy Southern California's golden sunshine . . . his theme song is "Give Me Leave, Lots of Leave."

DON E. HOPKINS . . . "Hoppy" dropped down to Tech from Portland, Oregon, via Univ. of Washington . . . gained recognition by engineering the construction of an aerological weather-shelter which is doubtlessly the biggest in captivity.

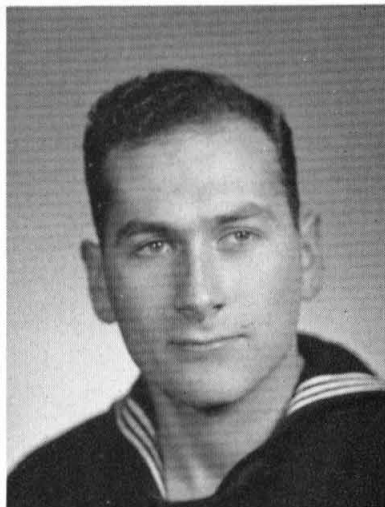
WILL A. INGRAM . . . it's "intuitively obvious" that weather man Will has his mind on things other than weather . . . plans to study chemistry at Univ. of Chicago, his home town . . . learned to run the cross-country at Western Michigan.

FRANK C. JORGENSEN . . . one of the hardest working business managers that the "Big T" has had . . . prefers the Constance to any other room in Fleming . . . hails from L.A. . . . "my buddy."

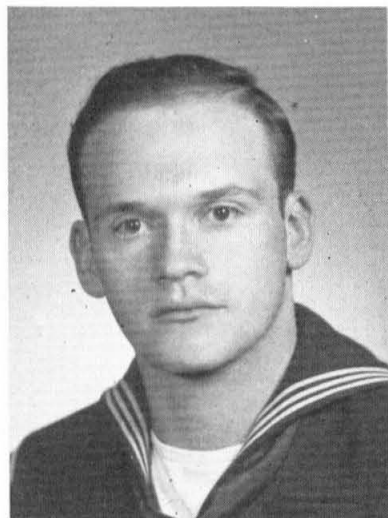




THOMAS W. KELLY . . . ASB treasurer . . . stumble bum on the track team at Tech and Notre Dame . . . can usually be found at Scripps on week-ends.



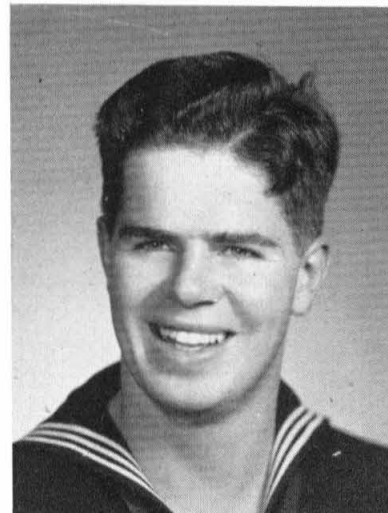
DAVID R. LEWIS . . . "Fee the maller" . . . famed for his "Oxy co-ed" appearance in the Rose Bowl, with the other strange cheer-leading activities . . . theme song: "Carry Me Back".



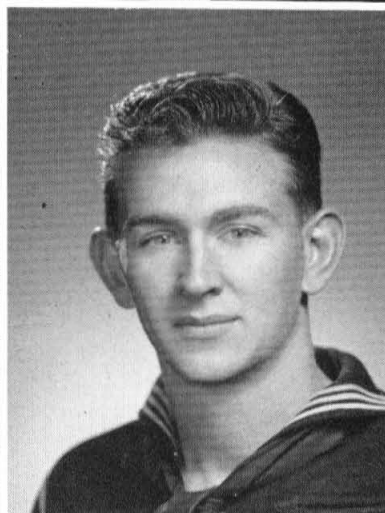
WALTER A. LONG . . . always eager to give his friend advice on beach and skiing conditions . . . can usually be found listening to Gabriel Heater . . . hails from the home of the Rambling Wrecks.



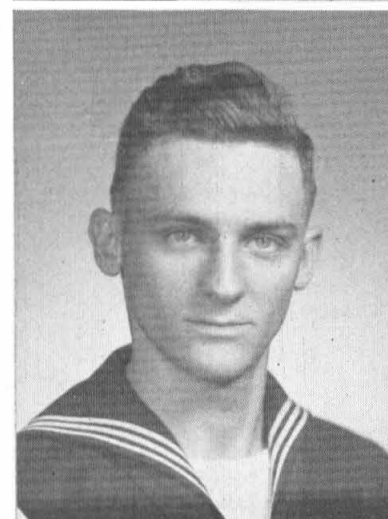
NORMAN J. MacDONALD . . . a rambling wreck from Georgia Tech . . . ace pitcher on baseball team . . . "somewhat engaged" to a little girl back in the home town of Bethesda, Md.



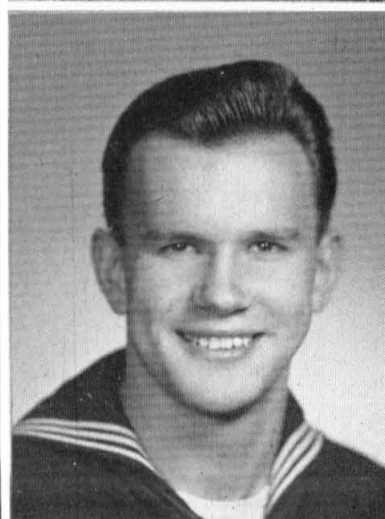
HOWARD W. MORGAN, JR. . . . "Bits" . . . from Scarsdale, N.Y., Scarsdale, that is . . . famed for his words "I am retiring from public life" . . . co-editor of California Tech . . . tried to stir up school spirit as cheerleader . . . Beaver.



ROBERT L. NEWBROUGH . . . one of busy men on campus . . . letter in football and flashy forward on basketball team . . . ASB vice-prexy in senior year . . . Beaver . . . member of Varsity Club . . . Honor Key . . . foresook millions of women at Oxy campus for love of aerology.



ROBERT C. SIEGEL . . . "I'm gratified to have fraternized with 20 of the cleverest students Tech has ever produced" . . . can be listed among the missing on week-ends . . . played handball at UCLA . . . also paperweight boxing champ.



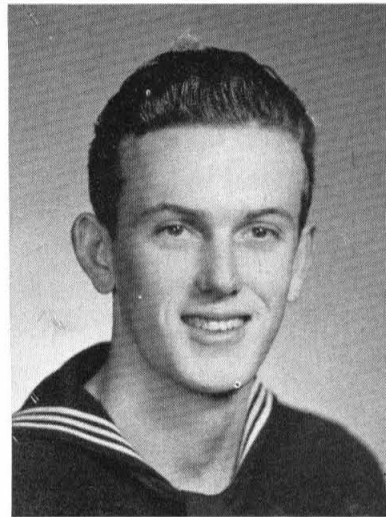
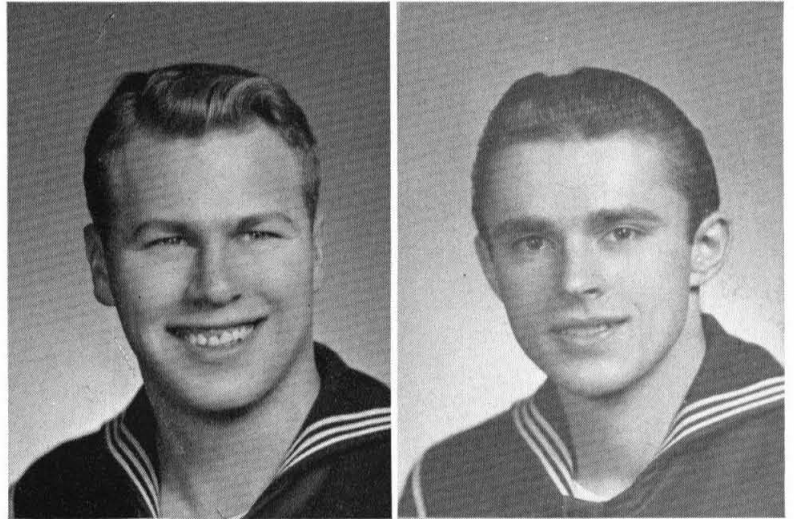
MILTON A. STRAUSS . . . "Milt" . . . biggest interest in athletics . . . letter in football and received Wheaton Trophy . . . selected on All-Southern California Intercollegiate baseball team . . . Athletic Manager . . . member of Beavers and Varsity Club.

Aerologists

ROBERT E. TUCKER . . . "Tuck" . . . ASB Publicity Manager during senior year . . . managed football and baseball teams . . . main outside interest is women . . . one of the eager Beavers.

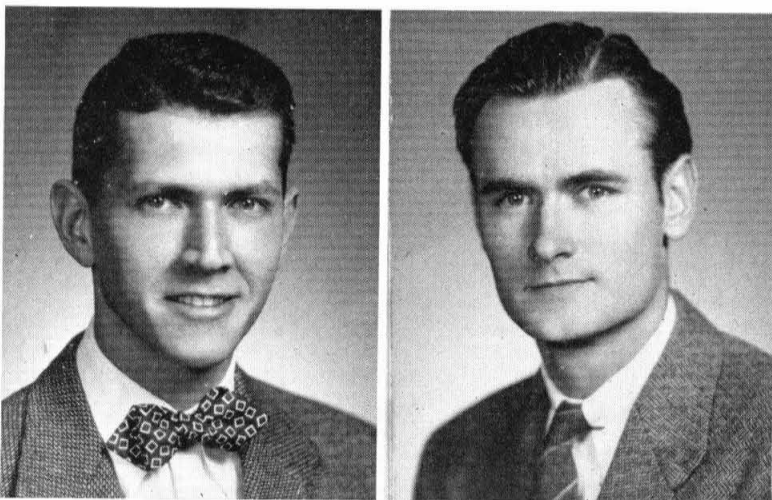
ROBERT C. WISE . . . "Y" prexy, Beaver, First Rep., band member . . . Honor Key . . . he'll head for Cornell for graduate law . . . ace long-range forecaster, having gotten "the word" at Notre Dame.

HOWARD R. WOODS . . . attended SC where he started his track career—continued it at Tech . . . hopes to continue meteorology in the weather bureau as a climatologist . . . second home is in Arcadia.



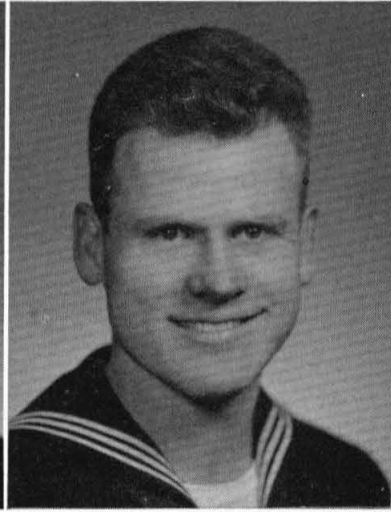
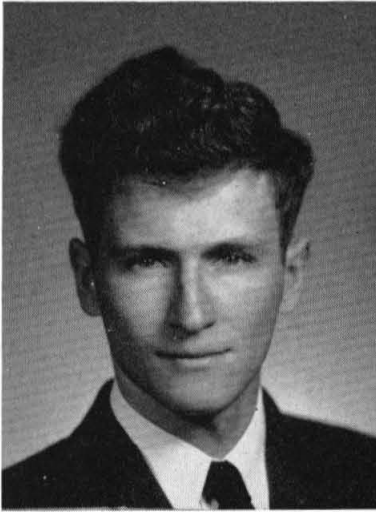
June

Biologists



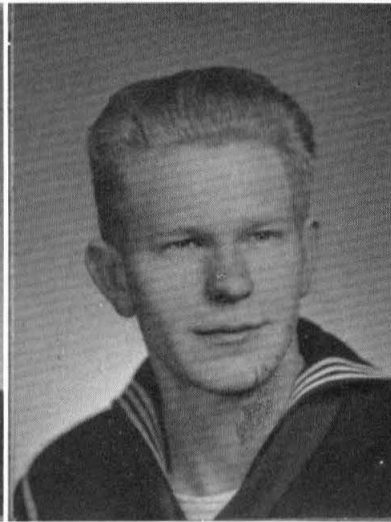
DAVID R. ESNER . . . Musicale prexy . . . noted for scholarly attainments in French and music . . . a quiet, thoughtful fellow.

DAVID B. SHELDON . . . came to Tech in '39, left for AAF in '42, and returned for degree in biology . . . one of the married men in the class, Dave is the proud father of a baby girl . . . plans to go on to medical school.



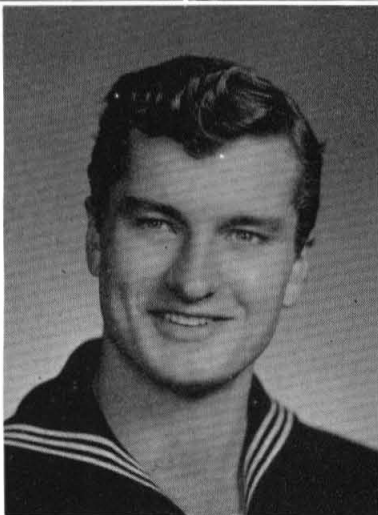
JAMES F. CHALMERS . . . served in the famous Flying Tigers during the war . . . an old Tech student.

JOSEPH P. COLLEY . . . reared in sunny San Bernardino . . . moved to Fleming . . . on track and basketball squads . . . Varsity Club . . . ASCE treasurer.



NORMAN R. GREVE . . . took frosh and senior years at Tech, rest in Marine V-12 at U. C. . . . member of ASCE and Tech Vets . . . typical CE of the class.

CHRESTEN M. KNUDSEN . . . home in Redlands, Calif. . . . civie at Tech . . . secretary of ASCE . . . hobbies: magic and photography . . . after finishing at Tech, wants to go someplace—Pomona.



JEROME W. SCHNEIDER . . . "Jerry" . . . ASCE president . . . Student-Faculty Relations Committee . . . basketball '45-'46 . . . Varsity Club . . . ASB board . . . Varsity Club secretary . . . Newman Club . . . Fleming Athletic Manager . . . Beaver . . . Honor Key . . . "Home in Indiana."

June Civils

June Electricals

WAYNE S. BLACKMAN . . . "Blackie" . . . fascinated by things . . . instrumental in bringing back Tech's Radio Club . . . takes business from local watch repairmen . . . skips to the Track frequently.

PHILLIP N. BUFORD . . . came to Tech via Univ. of Arkansas . . . holds an expert's rating in "Centrifugal Chapeau Engineering" . . . "when they found the promised land, they called it Arkansas(?)"

JOHN J. BURKE . . . a fleet man (RT 1/c) . . . president of both Tau Beta Pi and Radio Club . . . letter as football end . . . treasurer of Varsity Club . . . IRE . . . quite well liked . . . interests lie in classical music, radio, and motorcycles.

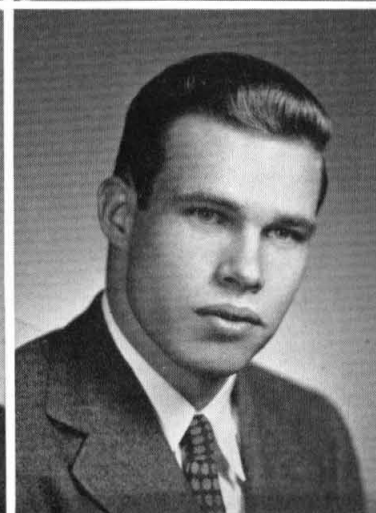
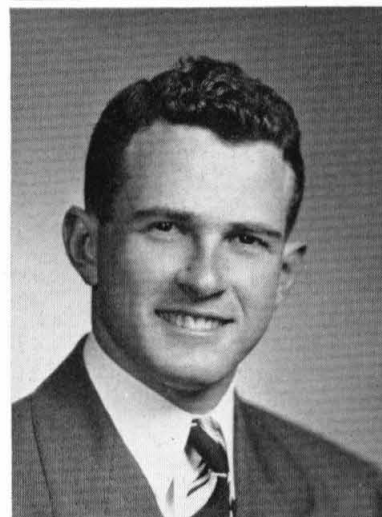
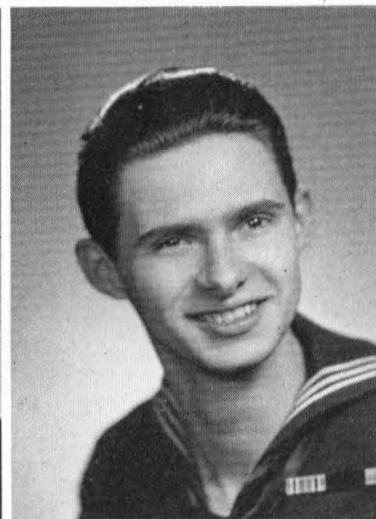
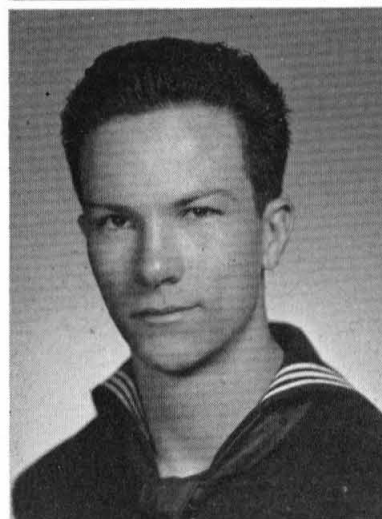
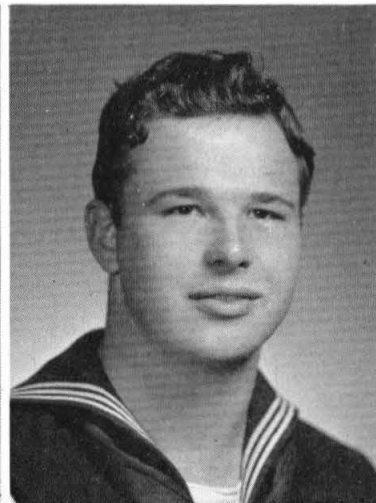
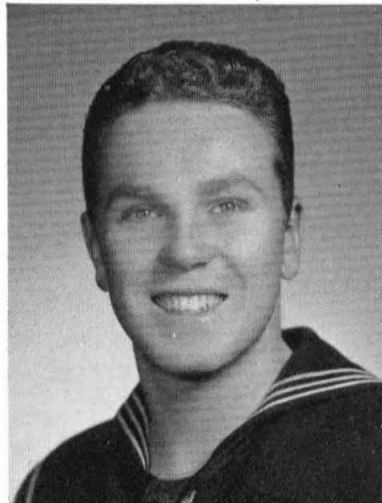
PAUL MARTIN BURRIS . . . "old dad" . . . came to Tech from navy unit in Missouri . . . can fix anything from dictaphones to bassinets—a practical engineer . . . an instrumental enthusiast, he plays french horn, alto trumpet, in addition to helping direct the band.

D. CHESTER DAVIS . . . Tech frosh track man . . . next two years at U.C. in Marine V-12 . . . treasurer of Tech Vets . . . athletic type, specializes in 100 and 220 yd. dash . . . varsity track.

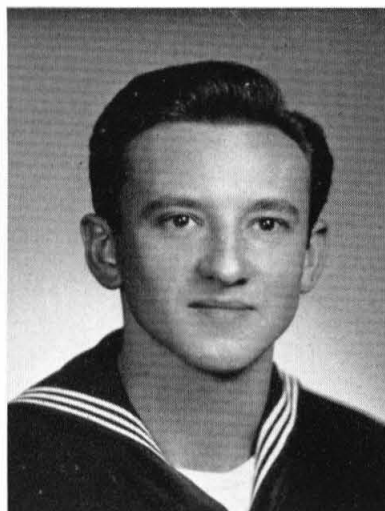
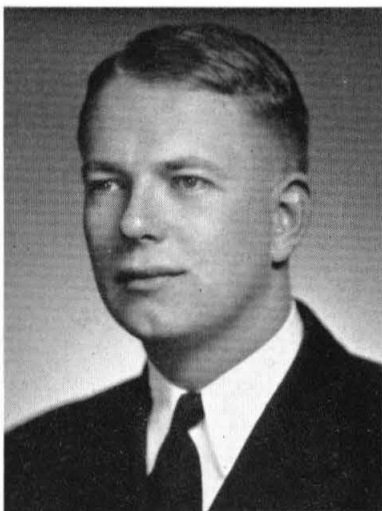
HERBERT I. DAVIS . . . six semesters in V-12 at Tech, finishing as a civilian . . . interest in water sports . . . two years in water polo and swimming . . . EE by option, HE by choice.

RICHARD H. DELANO . . . Dick combines scholastic aptitude with a sharp sense of humor . . . attended U.C. in Marine V-12 for two years . . . Musicale . . . secretary of Tau Beta Pi.

PETER FAGAN . . . proponent of the strong silent school . . . known for long-windedness (e.g. "Hello") . . . authority on diametric words . . . believes in "a minimum of physical exertion."

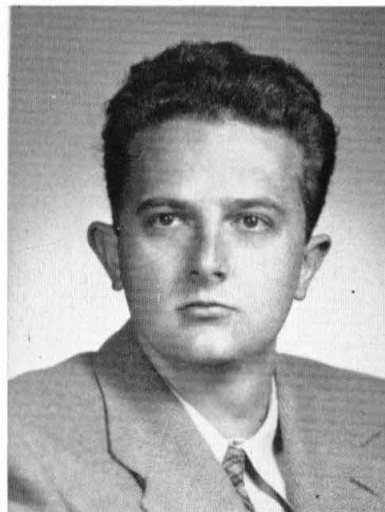
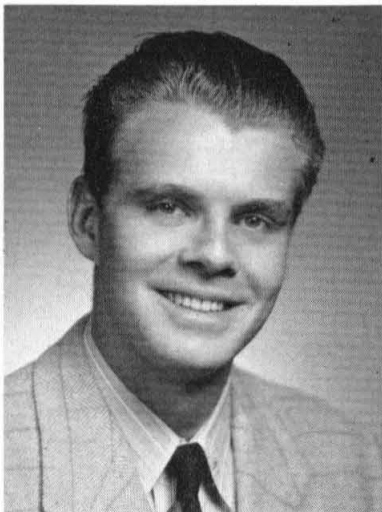


June Electricals



LAURENCE O. HAUPT, JR. . . . Ricketts House . . . band . . . Radio Club . . . AIEE . . . frosh football . . . soon on arriving at Tech, had antenna for N6NSX across Ricketts court.

EDWARD S. IDA . . . fleet man . . . Tau Beta Pi . . . Glee Club . . . plays chess . . . professed interest in workshops and women . . . smooth dancer . . . likes tennis and horseback riding . . . former student at Washington U., St. Louis.



DAVID C. LINCOLN . . . president of Blacker House . . . "Linc" is the other half of the Lincoln-Smith couplet . . . AIEE and IRE . . . hard working ability made him Tau Beta Pi in junior year . . . valuable man on senior football team.

CONRAD P. STENSGAARD, JR. . . . "Connie" . . . a physicist turned EE . . . came to Tech from Chaffey J.C. . . . specialized in "hamming" . . . Radio Club and IRE.



JACK Van BENTHUYSEN . . . "Happy Jack" . . . when he isn't expounding on the wonders of Missouri, "Van" finds time to plan for the future when he could study to be an architect . . . "Big T" staff.

JERRY A. ZAGORITES . . . "Zag" . . . intent upon becoming an EE . . . before coming to Caltech, he spent some time at U.C. (Berkeley) . . . active member of AIEE.

June Mechanicals

BENNETT BOVARNICK . . . "just a little guy with big ideas" . . . came from New England after a tour of Europe, Infantry style, to relax in the sunshine . . . noted jitterbug at Throop Club dances.

JOHN P. CALLIGEROS . . . "Greek" . . . member of SAE, ASME, and Varsity Club . . . letter in '45 football as the immovable mass and the irresistible force . . . somewhat partial to the Bronx . . . "I asked for the Army when I couldn't get the Marines; I guess the Navy needed good men."

WILLIAM FREDERICK EVENSON . . . "Eric" . . . called "Lard" by those who dared . . . ex-Stanford man . . . music appreciator and general kibitzer . . . member of SAE and ASME.

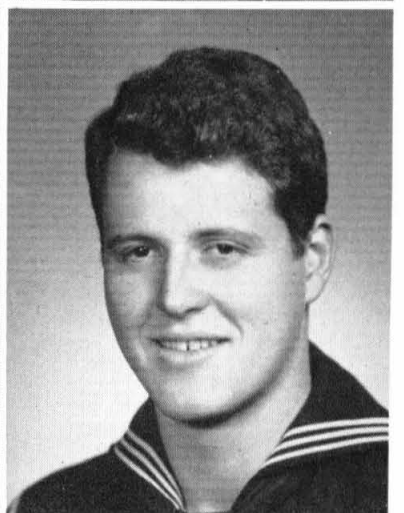
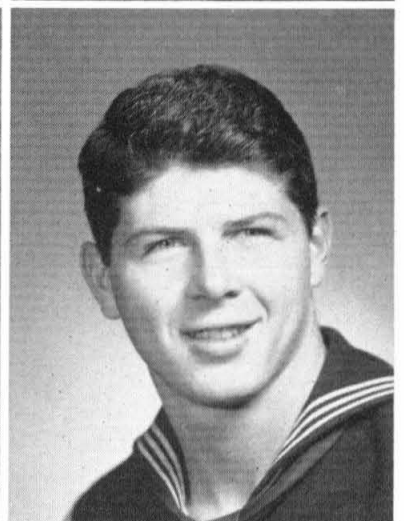
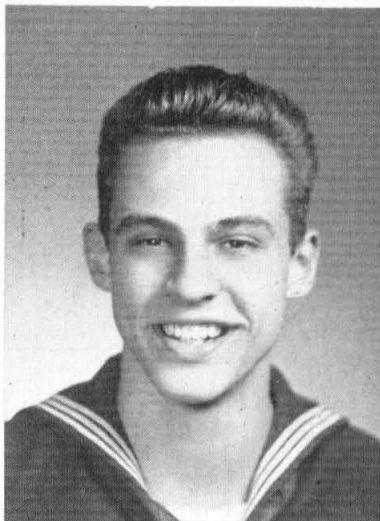
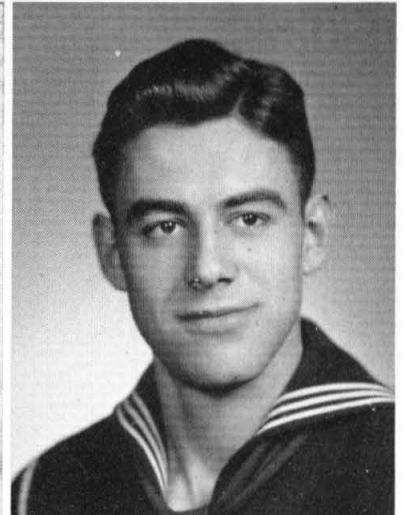
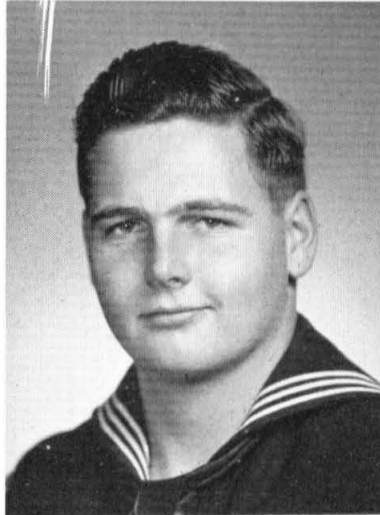
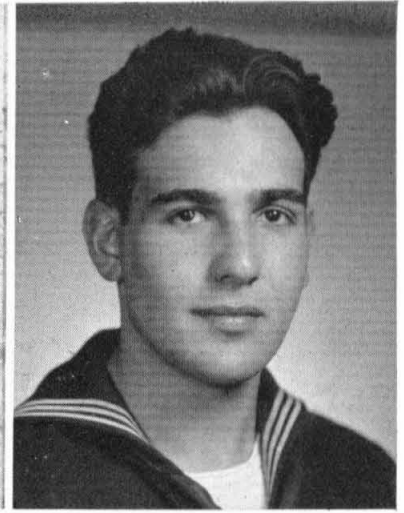
FRANK S. GATES . . . "Cutie" . . . the type that never runs down . . . noted for taking finals early, cooling tests, and denying both . . . member of ASME . . . Tau Beta Pi.

ROBERT H. GRUBE . . . "Groobie" . . . letter in track and water polo . . . Varsity Club . . . famous for phenominal complexes, sensational ideas and solid boogie.

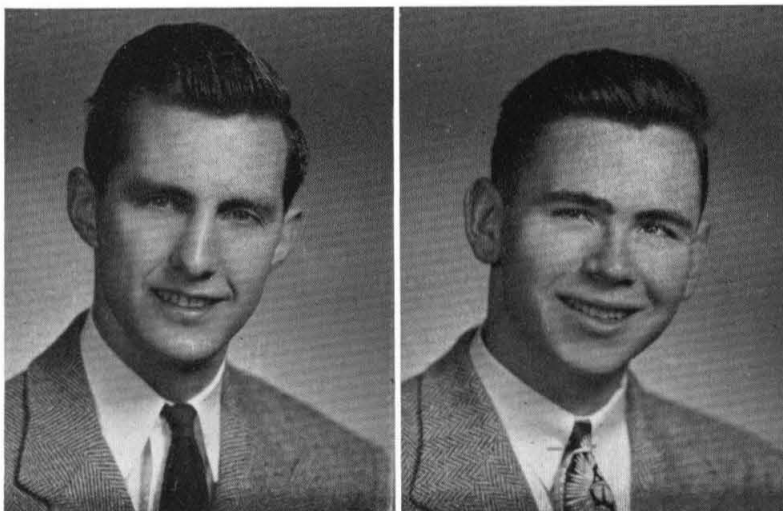
BENJAMIN S. HAYNE . . . "B.S." ('Buck Shot') . . . hic . . . member of Varsity Club, SAE, and ASME . . . letter in football '45 . . . famous for D-Day crusade against affluence of incohol and other activities.

ROBERT L. PEELER . . . another frustrated chemist, turned ME by Navy . . . civilian at Tech for one year . . . wants to come back to study chemistry.

PAUL C. RICKS, JR. . . . born in Garborville, Calif. . . . president of SAE . . . after Tech, he will stay one year in the Navy . . . loves to fool around with gas engines.



June Mechanicals



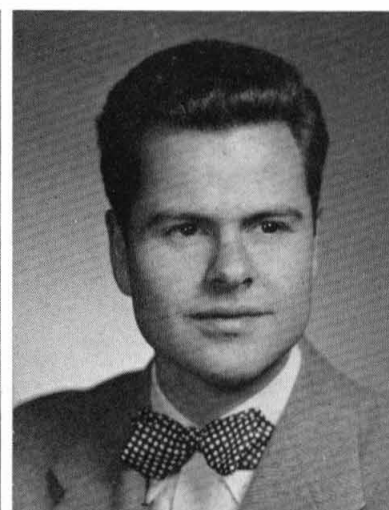
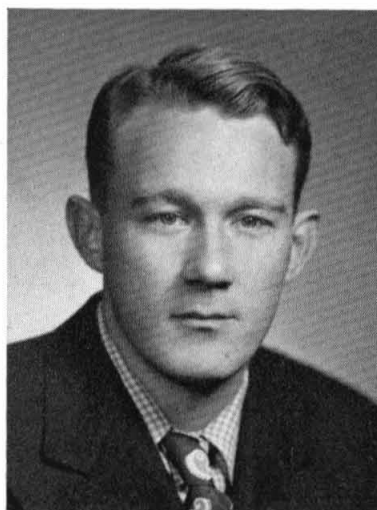
FRED P. ROBINS . . . believes in a minimum of study . . . usually retires before 10:30 on week nights . . . played J.V. basketball, stars in all intramural sports . . . Beaver . . . ex-Throop Club prexy . . . spends week-ends in Pomona.

LOUIS SCHMIDT . . . astounded everybody by managing to carry 18 units and work full time at Galcit . . . Tau Beta Pi . . . SAE and ASME . . . Lou's heavy sarcasm is a constant peril to erring instructors . . . likes sports but hates calisthenics.

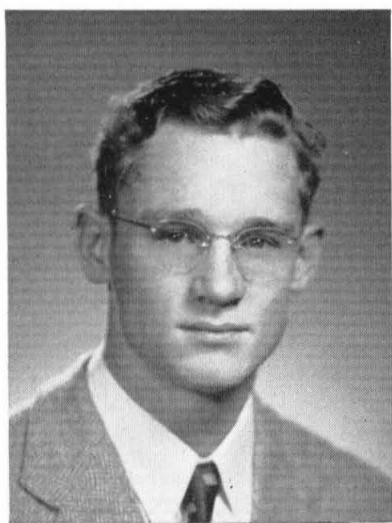
June Applied Chemists

WILLIAM G. MISNER . . . hails from South Pas and PJC . . . member of Chem Club . . . he has shown his hard-working abilities . . . his future, however, seems to be tied up at Balboa . . . fondest wish is to return to graduate school.

HERBERT W. STRONG, JR. . . . into a befogged, confused world came Strong—politician . . . God's gift to women . . . noted authority on Ohio . . . Throop Club prexy . . . sure-fire panic on any occasion . . . noted for oriental ideas . . . faculty editor of "Big T".



June Chemist



WILLIAM MOJE . . . distance swimmer of no mean ability . . . noted for his red hair . . . recently married, the "Mhojie" is an enthusiastic, hard-working student . . . never known to be other than constantly good-humored.



Lawrence struggles
with a Lucas
experiment



Clark finishing a ME lab

September Graduates



BERNATIS

DAVIES
SIMMONS

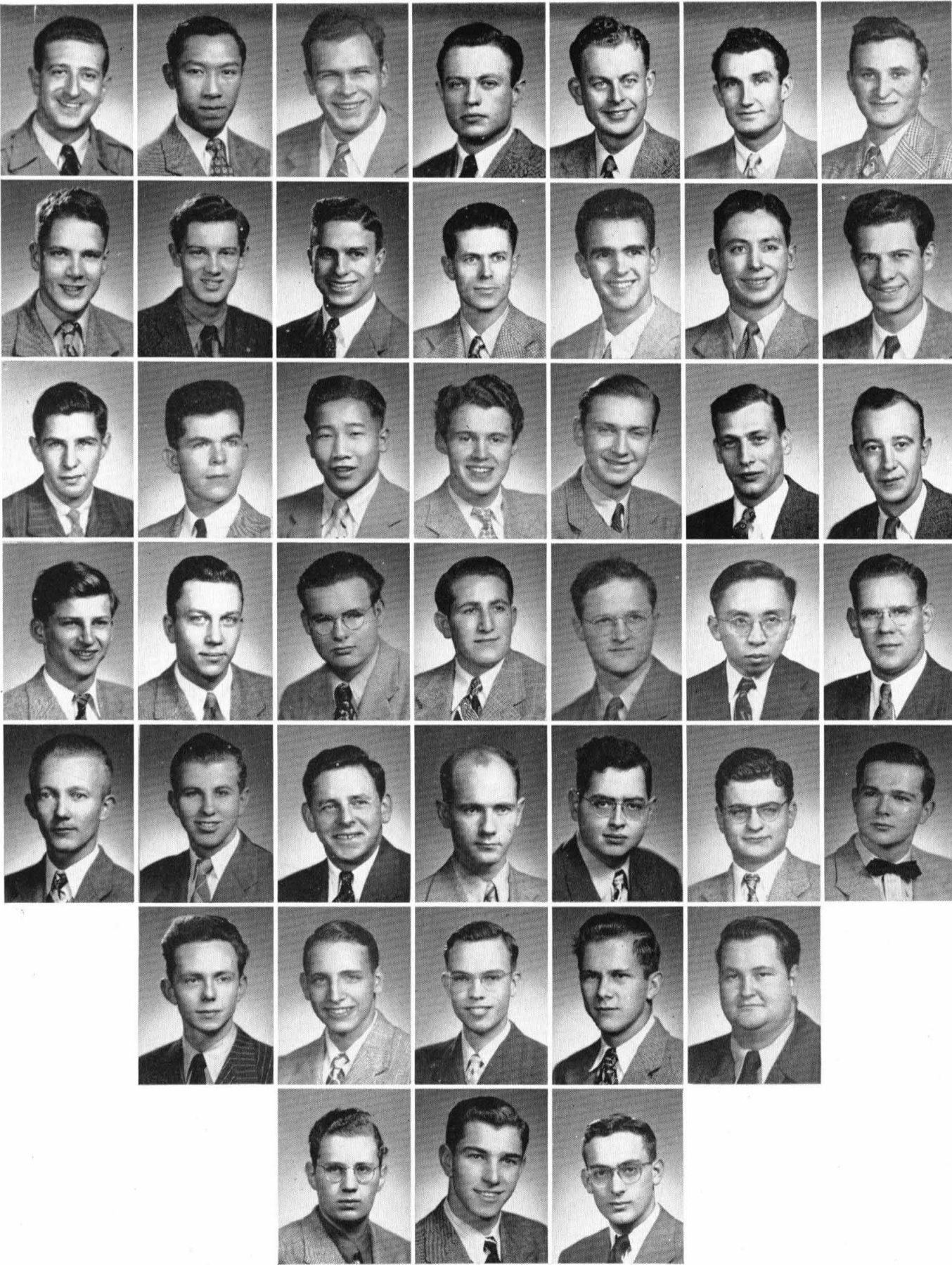
HARDY
STEIN

HATCHER
STUART

JONES
WARD

McDONALD
WILSON

POUNDER



Attias, J. J.
 Au, Y. C.
 Austin, G. A.
 Bellew, W. R.
 Beymer, E. H.
 Bowerman, F. R.
 Brachfeld, J.

Conrath, R. R.
 Darling, R. O.
 Elia, L. G.
 Gammans, G. G.
 Gould, N.
 Hamilton, T. H.
 Harrison, J. W.

Haas, W. M. B.
 Hedrick, L. G.
 Kam, M.
 Kampe, W. L.
 Kohler, H. G.
 Krenzien, C. H.
 Lawrence, H. J.

Leighton, T. C.
 Lesovsky, R. V.
 Link, R. F.
 Lipow, M.
 Mendenhall, R. M.
 Oey, T. S.
 Pond, M. C.

Rasmussen, C. F.
 Rock, F. C.
 Rose, E. S.
 Scott, R. E.
 Shaw, C. B.
 Sheriffs, L.
 Shoemaker, E. M.

Steward, R. M.
 Swerling, P.
 VanDeerlin, D. B.
 Viewig, A.
 Washburn, C. G.

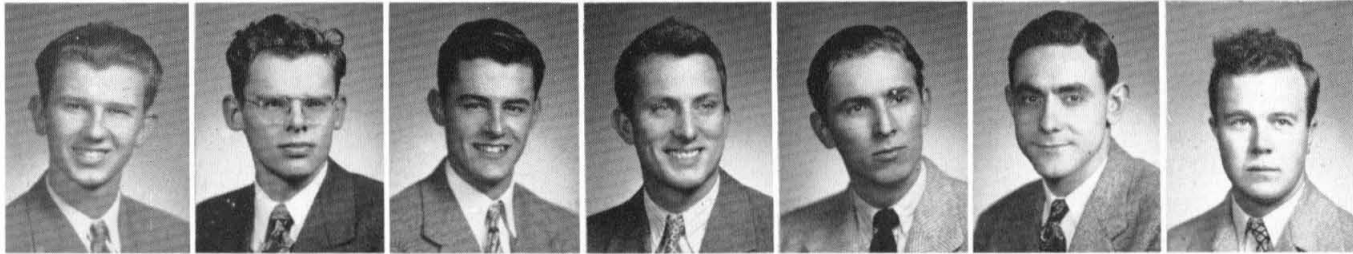
Werner, J. B.
 Wolf, F. J.
 Hipsch, H. M.

Juniors

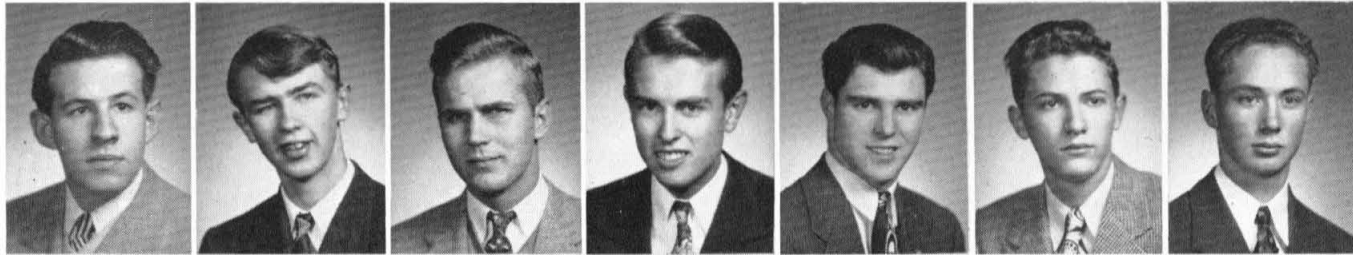
Alpert, A. W.
 Barker, W. A.
 Baron, D.
 Barraclough, R.
 Baugh, H. W.
 Binger, R. E.
 Breed, A. K.



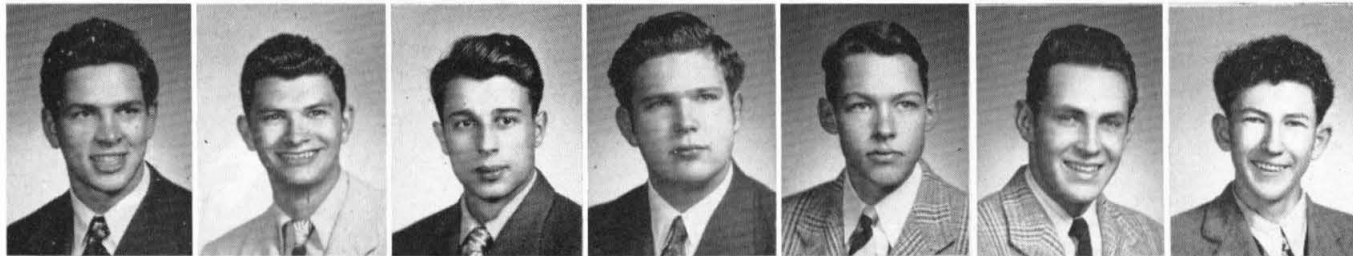
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 Bruun, E.
 Bussard, R. W.
 Butler, S. M.
 Carter, H. C.
 Chambers, G. R.
 Christopherson, W. A.



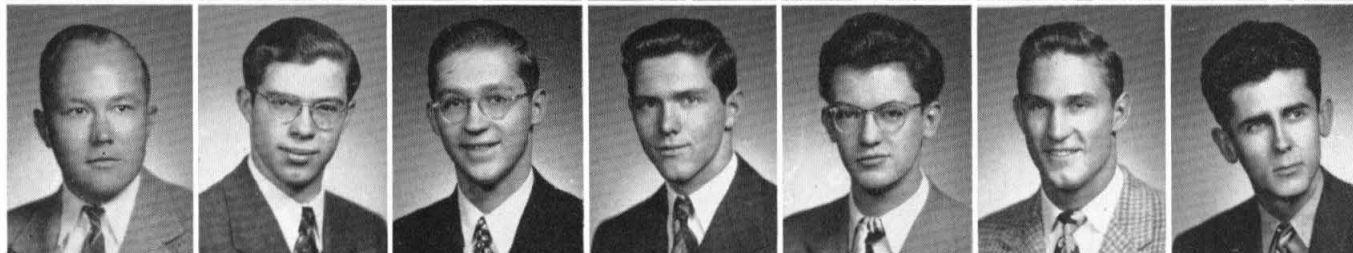
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 Cox, A. N.
 Dahm, L. P.
 Drinkward, C.
 Duke, E. K.
 Elder, J. K.
 Fay, A. P.



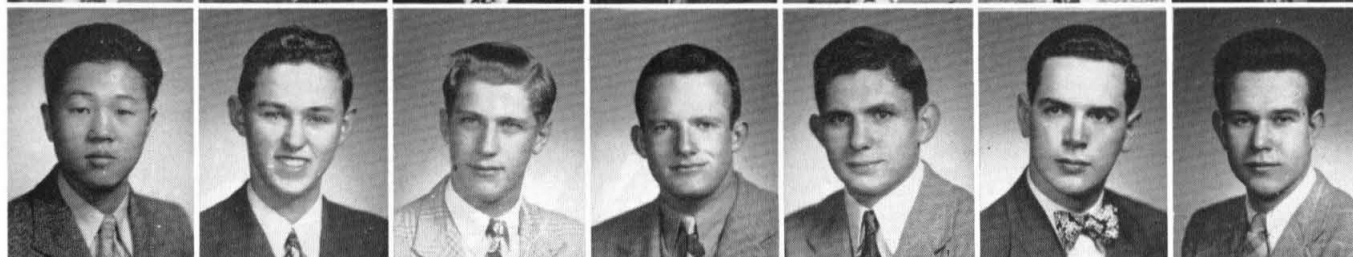
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 Flam, F. H.
 Fletcher, T. C.
 Folmer, P. J.
 Funsten, J. W.
 Grey, G. H.
 Griffin, M. D.



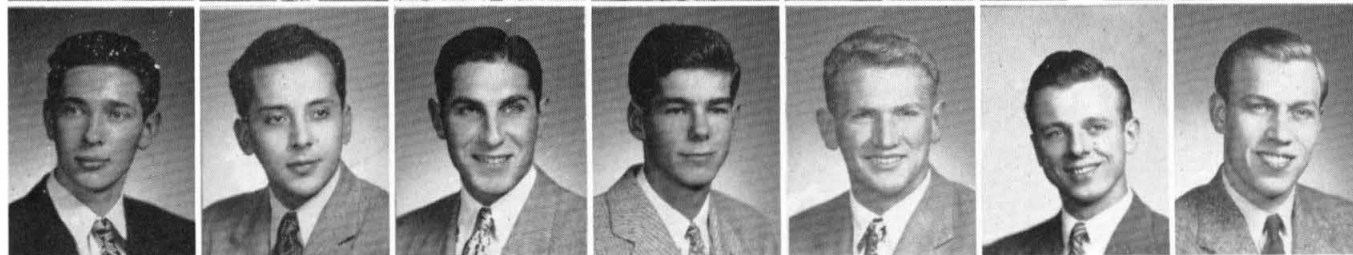
Gunther, F. G.
 Hammermeister, O.
 Harris, W. N.
 Hay, R. W.
 Hendrickson, J. B.
 Hibbard, D. E.
 Holm, H. K.



Hsu, R.
 Jarmie, W. N.
 Johansson, E.
 Jones, B. C.
 Kimble, G. W.
 King, R. I.
 Knipe, R. H.



Lang, T. G.
 Lesmez, J. J.
 Levin, A.
 Lewis, H. B.
 Long, D. V.
 Martinek, G. A.
 Matzdorff, R. E.



Sophomores



Mendoza, A. A.
 Mitchell, E. E.
 Mosich, J. T.
 Mullen, J. K.
 Murphy, C. G.
 Navarro, C. B.
 O'Brien, J. M.

Oswald, D. J.
 Patterson, R. L.
 Payne, P. G.
 Pedraglia, R. M.
 Peterson, E.
 Puder, A. T.
 Quirnbach, C. F.

Rains, D. A.
 Rappaport, H. P.
 Rennie, B. B.
 Roach, J. E.
 Robinson, M.
 Roe, G. W.
 Rose, T. W.

Roskowski, E. F.
 Ross, C. J.
 Ruddick, R. B.
 Schneider, F. C.
 Seiden, W.
 Shaller, E. H.
 Shepard, D. L.

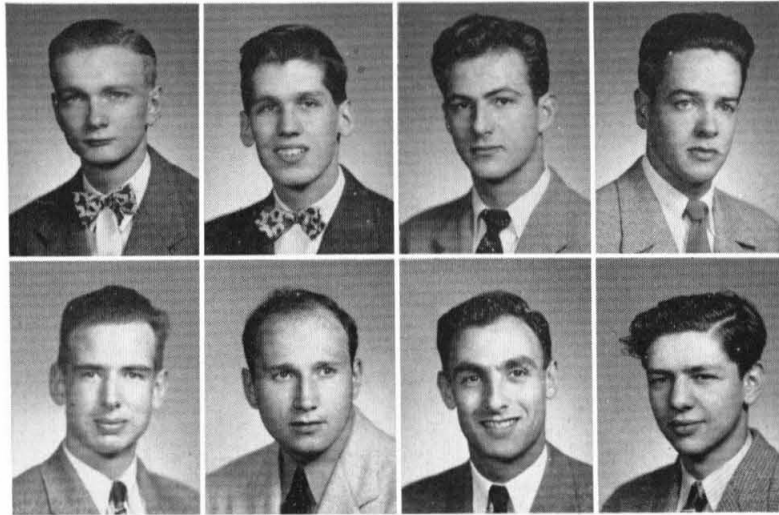
Shore, B.
 Simons, W. H.
 Sinclair, R. M.
 Six, D. E.
 Smith, G. D.
 Smyth, W. E.
 Soule, W.

Spellman, R. A.
 Staats, W. T.
 Stearns, J. E.
 Stormes, J. M.
 Stowe, B. B.
 Suhrer, F. C.
 Susskind, G.

Swain, J. S.
 Thomas, J. H.
 Thomas, J. R.
 Tycko, D. H.
 Vrabec, A.
 Walker, N. C.
 Webster, W. W.

Sophomores

Wheeler, S. C.
 Wikle, C. D.
 Wilkening, J.
 Wilson, R. L.

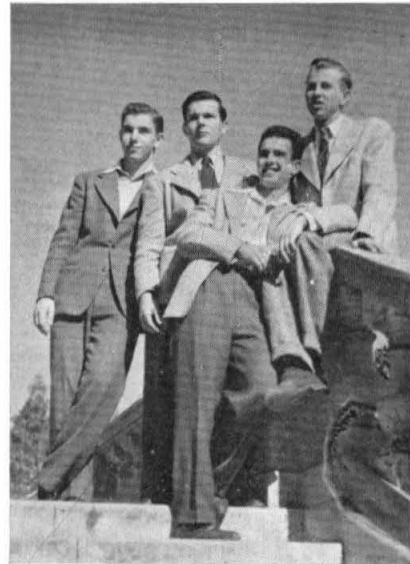


Whittlesey, J.
 Worcester, B. A.
 Zacharias, R.
 Zwick, E. B.

Sophomores



At the Christmas dance — Wolf was blowing Gould's nose.



Sophomore Officers, Oct. - Feb.
 Wolf, Shoemaker, Rock, Gould

Once Nat Gould was elected President of the Sophomore class, the spirit and enthusiasm for activities surpassed that of all other classes. The big affair of the year came just before Christmas, when Bob Barraclough engineered an enjoyable evening at the Christmas dance. Success for that evening is due to the hard labor of a few individuals who devoted much of their time for decorating Dabney Hall Lounge. One of the year's drawbacks was the solid defeat handed out by the Frosh at the annual Rodeo — the Sophs didn't win an event.



Albee, P. H.
 Archer, W. E.
 Bailey, W. H.
 Baird, J. K.
 Beardsley, F. H.
 Bemem, L. H.
 Bible, R. E.

Bickford, E. F.
 Blair, E. W.
 Blanton, W. E.
 Bratnober, E.
 Breiman, L.
 Brockman, W. J.
 Brow, R.

Brown, G. J.
 Carnachan, R. S.
 Carroll, H. A.
 Cohan, J.
 Cootes, W. R.
 Cuff, L. F.
 Curtis, F. S.

Danielson, W. E.
 Darrow, R. A.
 Davis, E. F.
 Dobrolowski, J. H.
 Dodson, D.
 Dolan, E. J.
 Drapes, A. G.

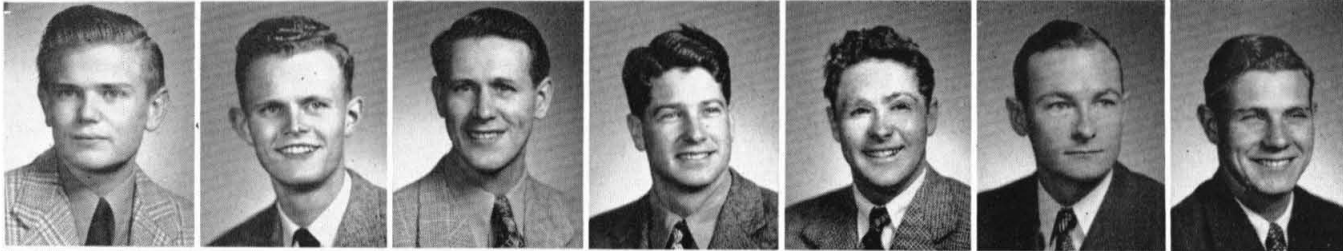
Dunbar, E. E.
 Duque, V. A.
 Earle, G. W.
 Eilau, W. E.
 Evans, D. L.
 Famularo, K. F.
 Fenzi, G. C.

Ferguson, R. C.
 Ferguson, R. H.
 Fletcher, A. M.
 Fong, S.
 Forester, C. F.
 Funk, R. B.
 Gates, V.

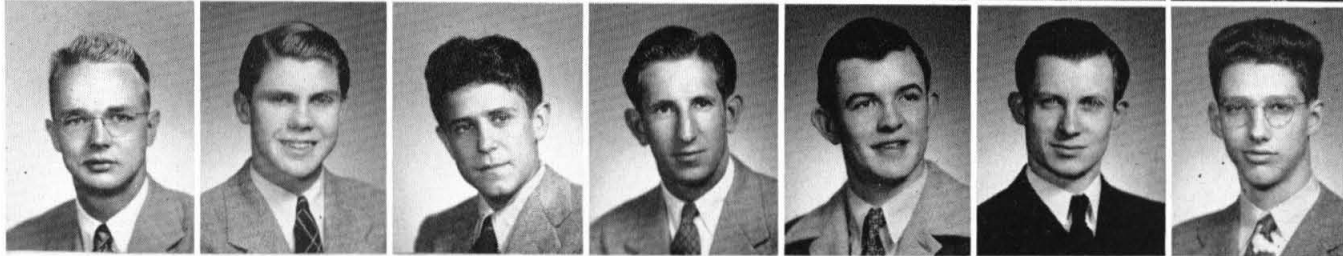
Goodman, F.
 Graham, B.
 Greene, R. C.
 Greer, P. H.
 Grey, G. M.
 Griffin, G. T.
 Guenther, R. B.

Freshmen

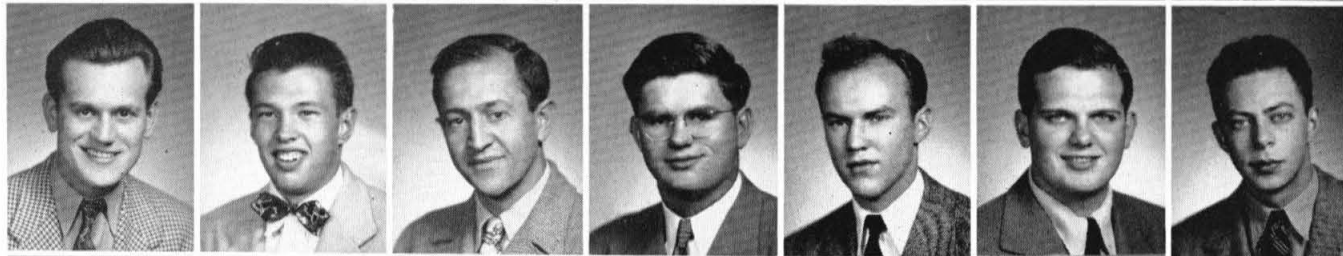
Hamlin, R. N.
 Harris, A. V.
 Harris, J. N.
 Harris, P. B.
 Hartman, D. T.
 Hayward, D. K.
 Heath, J.



Heath, W. C.
 Heggland, R. W.
 Heyneman, R.
 Hindsley, W. E.
 Hockaday, R. C.
 Holcomb, W. C.
 Houghton, W. G.



Hrebec, G. M.
 Hurley, N. L.
 Hylton, F. G.
 Johnson, J. E.
 Johnson, R. C.
 Johnston, W. J.
 Jhrde, R. A.



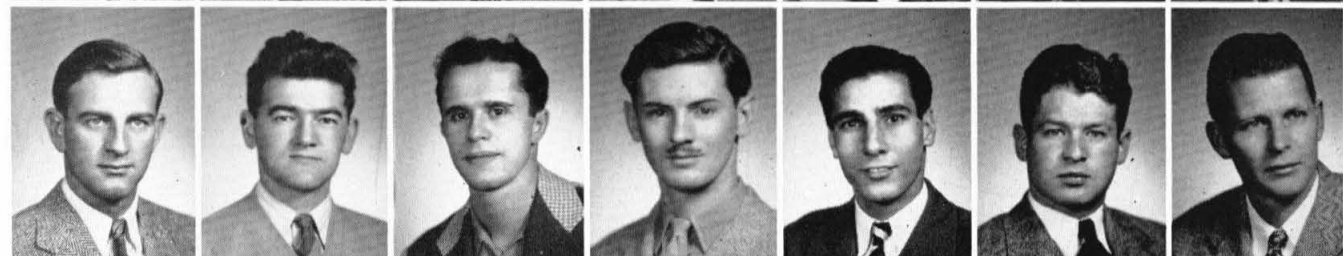
Kachadoorian, R.
 Katz, E.
 Kemner, J. W.
 Kermeen, R. W.
 Kidder, P. H.
 Kincaid, D. P.
 Kinkel, J. F.



Knight, C. H.
 Kohnen, K. D.
 Kono, E.
 Kostelac, J. F.
 Krumholz, J. F.
 Kuljian, M. J.
 Kvammen, K. R.



Lane, C. A.
 Lanz, W. T.
 Leggett, E. M.
 Lehr, C. K.
 Levonian, E. P.
 Linderman, H. J.
 Loggins, R. H.



Lucas, C. M.
 MacGinitie, W. H.
 Marshall, J. C.
 Mattice, J. A.
 McPhate, J. A.
 McChane, B. S.
 Miller, T. W.



Freshmen



Mitchell, O. L.
 Mooring, E. C.
 Morgan, G. R.
 Morrison, D. R.
 Meuhlberger, R. P.
 Neidringhaus, T. R.
 Noonan, A. R.

Orr, C. B.
 Paine, W. D.
 Parkhurst, K. L.
 Parten, K. M.
 Perry, B.
 Perry, R. M.
 Petrulas, J. G.

Petzar, G. M.
 Pierson, R. D.
 Poe, J. L.
 Powell, D. O.
 Pratt, F. S.
 Prouty, T. P.
 Ramsey, W. J.

Reeves, W. O. R.
 Rudin, B. D.
 Ryder, P. D.
 Saltman, P.
 Satre, L. H.
 Saunders, A. M.
 Savant, C. J.

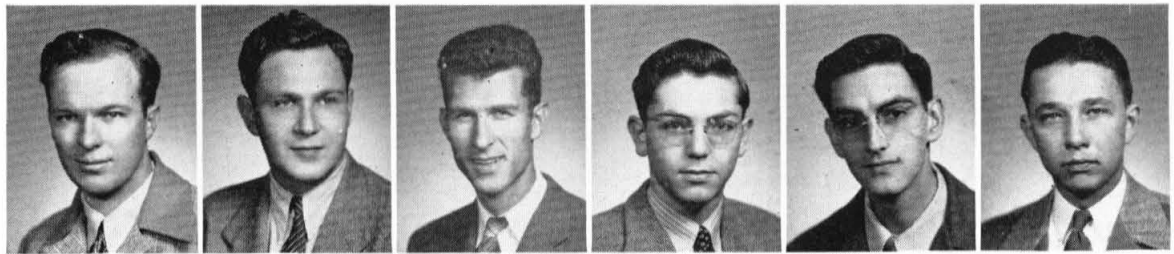
Smith, V. L.
 Sprecher, M.
 Stappler, R. F.
 Stein, R. S.
 Stiles, K. L.
 Stone, G. S.
 Sundsmo, A.

Sykes, R.
 Sylvies, W. A.
 Taylor, W. C.
 Team, R. B.
 Terriere, R. T.
 Trivus, S.
 Vetter, G. R.

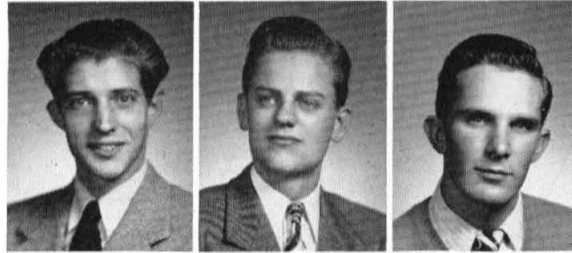
Vreeland, T.
 Vremsak, G. L.
 Wakeman, T. H.
 Walance, C. G.
 Walquist, R. L.
 Walter, J.
 Ward, E. F.

Freshmen

Waters, W. D.
 Weisbrod, S.
 West, E. D.
 Whitehouse, G.
 Whiting, G. J.
 Willig, H. R.



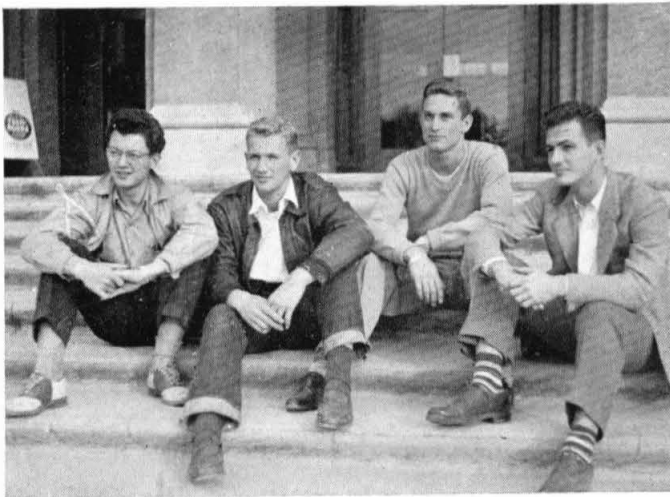
Willson, G. R.
 Woodbury, H. H.
 Woodward, G. N.



Gardiner, K. W.



Freshmen



Frosh Officers, Oct.-Feb.
 Hendrickson, Long, Hibbard, Wilkening

Much to the disappointment of the upperclassmen, this year's Frosh class is not of pre-war calibre—most of the Juniors and Seniors know by now that you can't ask a veteran to shine your shoes. However, there are many of the new Frosh who are returning after being called by Uncle Sam shortly after entering Tech. We sincerely hope that these men in particular will help bring pre-war conditions back to Tech. On the present Freshman Class largely rests the responsibility of carrying out the reformation of Tech social activity started by this year's ASB Board. Whether or not Tech moves forward depends on you Frosh—we know you won't fail us!



Abel, L. W.
 Abel, R. W.
 Abrahamson, R. E.
 Ackley, A. R.
 Aillaud, E. R.
 Aine, H. E.
 Albert, R. L.

Allee, J. B.
 Anderson, E. L.
 Anderson, S. B.
 Anderson, W. A.
 Anderson, W. B.
 Andrew, T. L.
 Armstrong, J. K.

Artz, A. L.
 Aske, G. J.
 Aslund, R. E.
 Bagley, D. R.
 Bagley, R. F.
 Baker, E. H.
 Bakken, H. N.

Barrere, W. E.
 Barry, M. J.
 Bartholet, J. K.
 Basmajian, D. T.
 Beck, A. E.
 Belote, J. L.
 Bills, K. W.

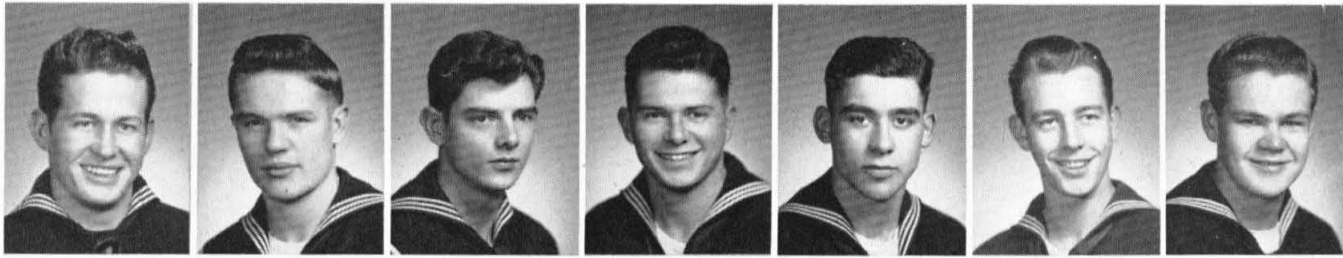
Binns, D. G.
 Blue, D. G.
 Booth, S. T.
 Boyce, R.
 Boyde, J. A.
 Bretvick, L. D.
 Brunelle, R. M.

Brunet, J. A.
 Buckalew, R. M.
 Burford, R. A.
 Burg, L. C.
 Carawan, J. H.
 Carlson, M.
 Carpenter, A. W.

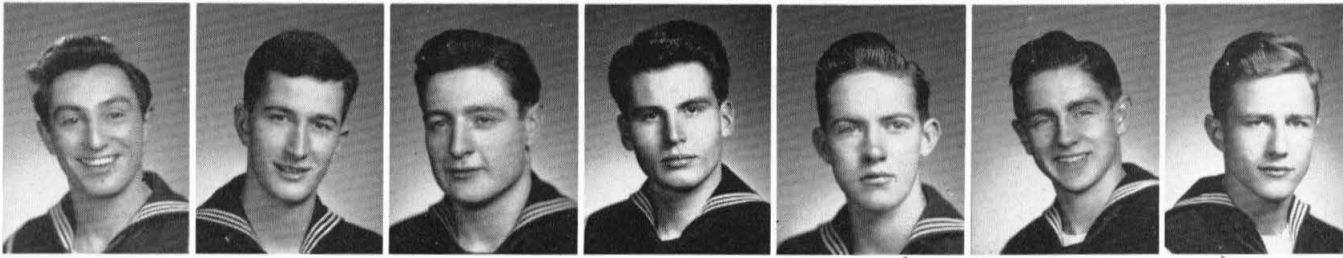
Carroll, H. L.
 Carter, S. B.
 Castle, J. R.
 Chapman, W. H.
 Chitwood, S.
 Christensen, H. J.
 Churchill, C. M.

Navy U-5

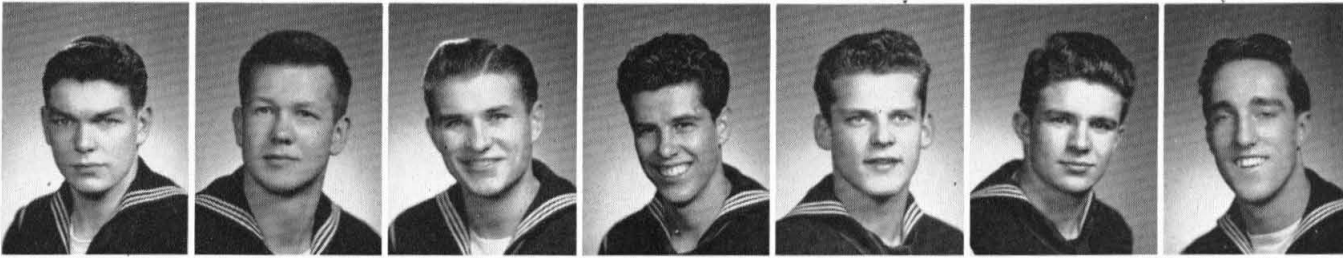
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 Clark, E. L.
 Cloux, R. F.
 Collings, L. B.
 Collins, A. D.
 Corison, J. B.
 Consgriff, E. J.



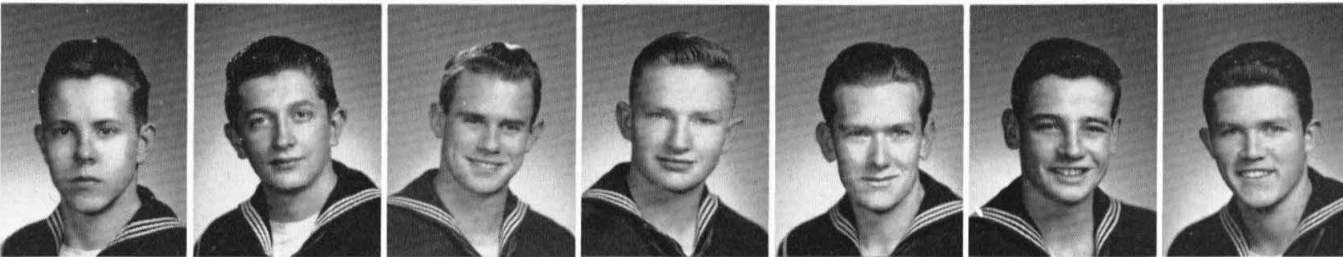
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 Craven, T.
 Croom, J. D.
 Curtis, T.
 Dailey, M. G.
 Davenport, K. L.
 Davis, D. E.



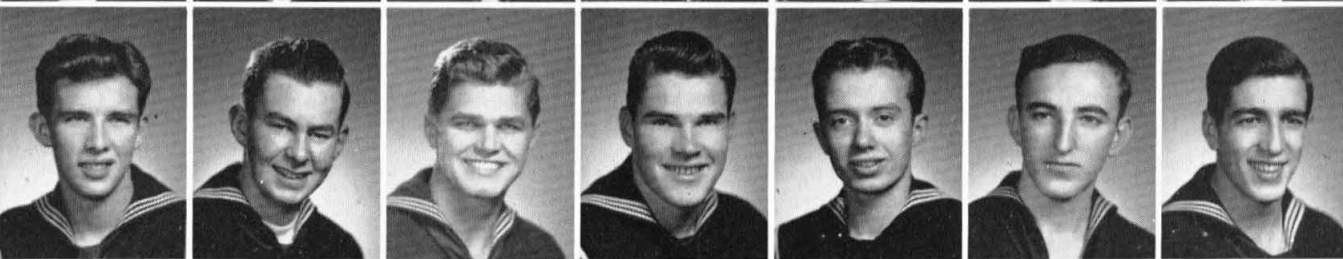
Davis, H. E.
 Davis, J. R.
 Day, A. J.
 DeMario, W. F.
 Desautels, R. J.
 Dill, R. E.
 Dolan, G. K.



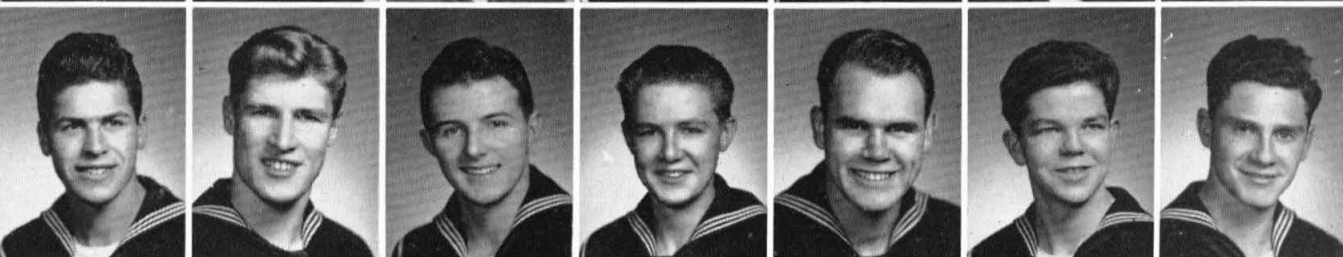
Doornink, G.
 Dorran, R. N.
 Darsett, C. B.
 Cowden, E. B.
 Drake, K. J.
 Dryden, W. G.
 Easton, M. A.



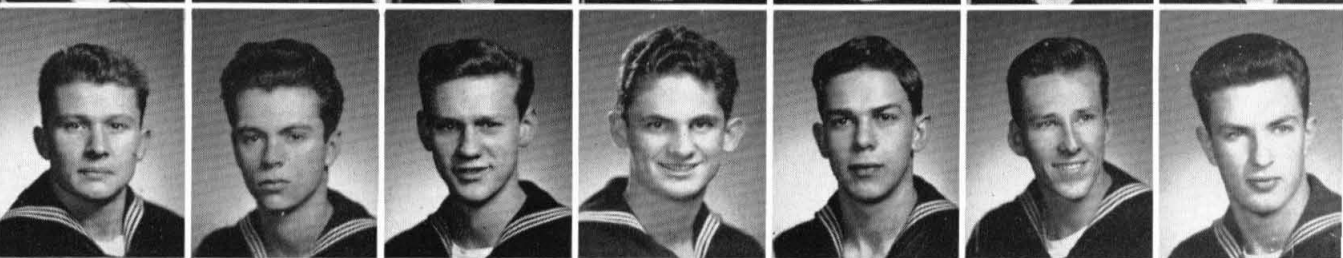
Elliot, D. T.
 Erdman, W. L.
 Ernst, W. H.
 Eroe, S. A.
 Evans, B. L.
 Evans, K. A.
 Faranda, P. L.



Fink, N. S.
 Flinn, E. A.
 Floch, B. D.
 Forslund, G. M.
 Fougner, A. G.
 Fowler, M. K.
 Frank, P. R.



Franklin, J. E.
 Frei, R. H.
 Gans, R. B.
 Garrett, H. M.
 Garrett, J. E.
 Gates, W. J.
 George, R. A.



Navy U-5



Gilmour, J. J.
Cold, R. E.
Gordon, H. T.
Goshorn, L. J.
Croves, J. W.
Gray, J. E.
Curley, R. P.

Hahn, R. D.
Hamblin, R. L.
Hamilton, W. E.
Hann, R. L.
Hannigan, D. R.
Hansen, A. C.
Hanson, J. G.

Harper, G. L.
Hart, W. E.
Harvey, G. J.
Hawthorne, F. E.
Hayes, T. W.
Hayward, C. R.
Heaven, G. H.

Higgins, W. G.
Hogan, J. C.
Holbrook, R. E.
Hoppe, F. J.
Innes, R. E.
Jackson, R. R.
James, M. D.

Jamieson, F. T.
Johnson, F. J.
Johnston, L. M.
Jones, T. R.
Joyce, P.
Keck, J. W.
Keehr, W. W.

Kelly, N.
Kielmeyer, R. D.
Killingsworth, R. M.
Klise, J. G.
Koch, D. H.
Kramer, V. K.
LaDue, C. V.

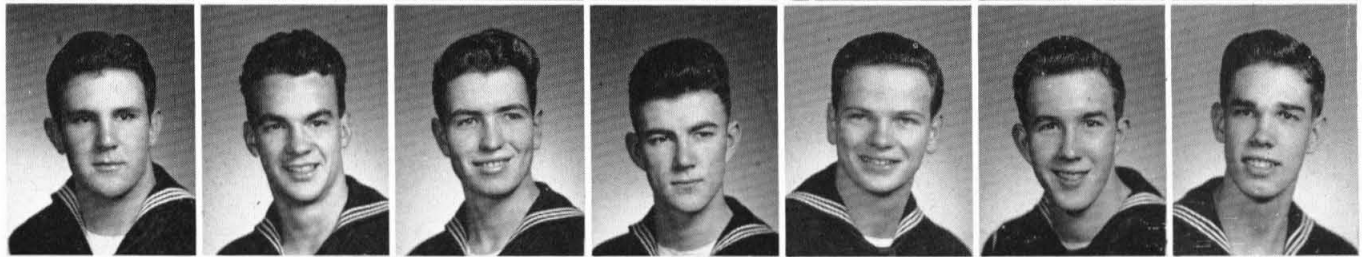
Lauritzen, H. M.
LeDuc, F. D.
Leisy, R. B.
Leonard, E. F.
Lindberry, J. R.
Lindell, A. K.
Lobdell, M. R.

Navy U-5

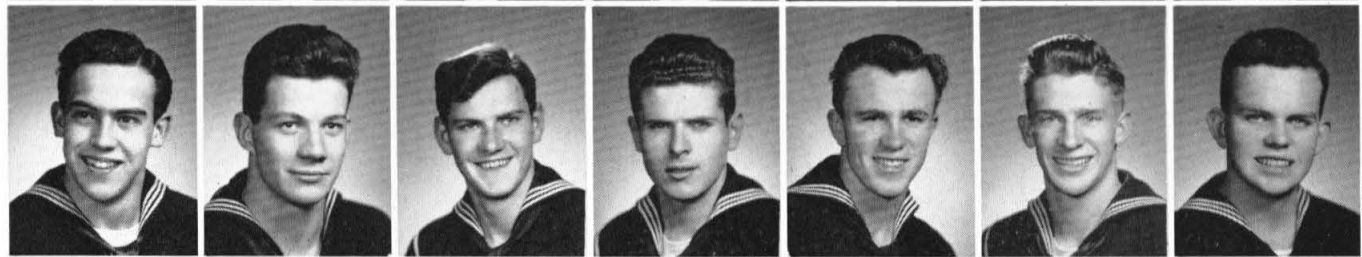
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 Love, F. A.
 Lowry, D.
 Luntzel, J. R.
 MacDougall, R. A.
 Marnach, R. H.
 Martin, T. W.



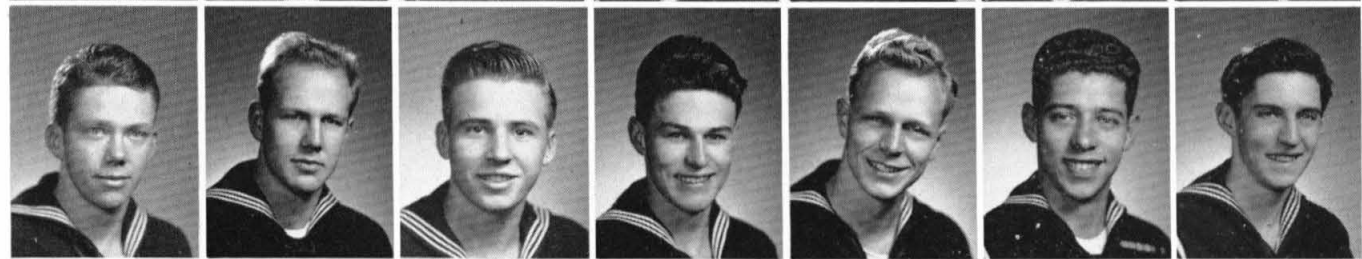
Matthew, D. F.
 Maughmer, R. W.
 McBride, C. R.
 McCloskey, P. N.
 McNamara, J. O.
 Michels, F. A.
 Miner, D. K.



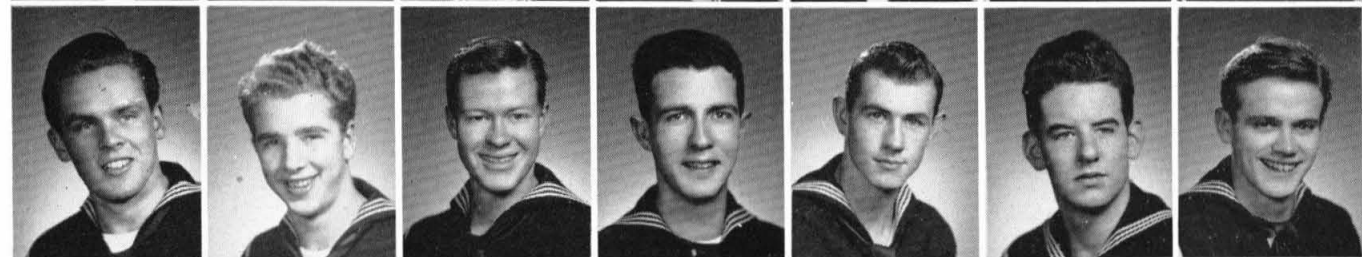
Morris, G. O.
 Morrison, R. A.
 Nance, J. W.
 Newman, R. E.
 O'Hara, J. F.
 Ohmer, C. O.
 Overholt, E. L.



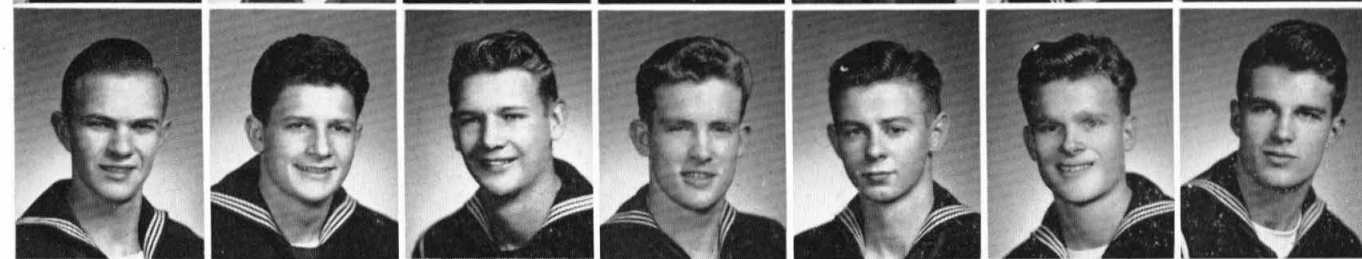
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 Pederson, S. J.
 Pinkham, S. H.
 Riebeling, H. A.
 Ritchey, D. D.
 Rogers, C. B.
 Rogers, E.



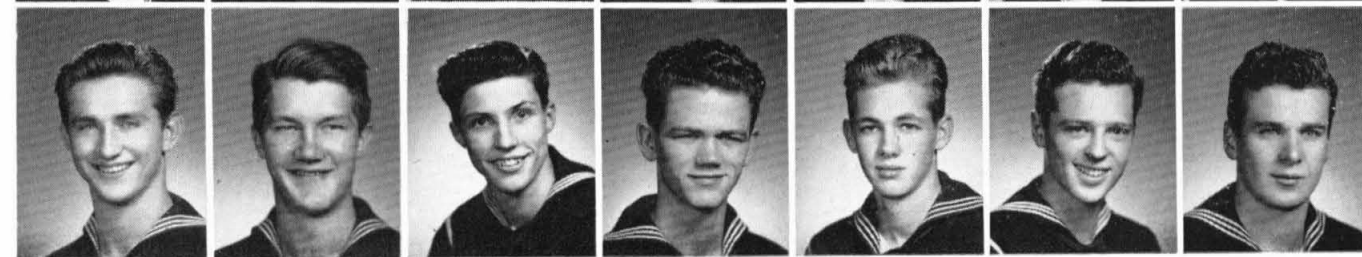
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 Samsel, D.
 Scott, R. S.
 Scurlock, R.
 Shea, J. J.
 Shirrod, R. L.
 Sink, G. T.



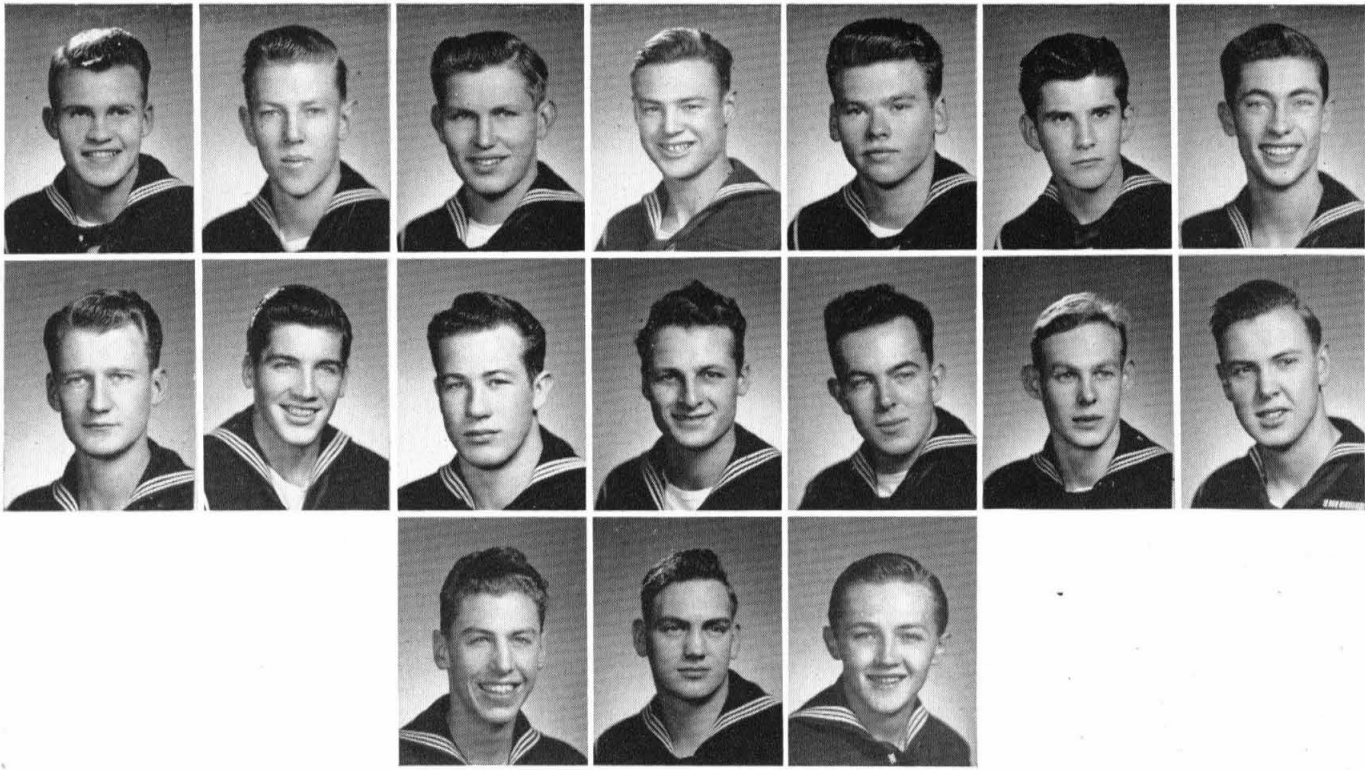
Spargo, T. H.
 Spero, K. R.
 Stevens, J. R.
 Stevens, P. A.
 Stith, G. R.
 Stollmeyer, B. N.
 Struckman, R. H.



Taylor, P. O.
 Taylor, S.
 Taylor, T. N.
 Thomas, P. D.
 Thompson, R. E.
 Tissot, E. E.
 Tudor, A.



Navy U-5



Turney, J. A.
 Van Slooten, D.
 Von Flue, R. J.
 Walden, D.
 Walker, G.
 Walker, R. O.
 Warner, J. L.

Washburn, A. D.
 Weik, J. F.
 Wilken, P. L.
 Williams, J. F.
 Williams, W. A.
 Wilson, W. S.
 Winslow, A. G.

Wiseman, E. A.
 Wright, A. C.
 Phipps, R. C.

Navy U-5



Left: Rolf Sinclair's prize winning room decorations range from pin-up pictures to church propaganda. You ought to see it—it's a sight!

Right: Man about campus Jerry "Texas" Ward, is camera shy because of his good looks. He exposes his body, though.

Camera Shy Students

Sept. Graduates

Adamson, P. A.
 Atencio, A. J.
 Blocker, R. F.
 Brandi, P. C.
 Dauwalter, C. S.
 Douglas, D. L.
 Drake, J. F.
 Dykstra, J. D.
 Essig, F. C.
 Fernandy-Paupy, R. R.
 Field, J. F.
 Freire, J. F.
 Huang, T. H.
 King, W. R.
 Lim, V. H.
 Lockwood, G. H.
 Long, W. A.
 Pecchenino, P. L.
 Platt, A. E.
 Richter, J. E.
 Steele, H. M.
 Taylor, W. C.

Juniors

Adams, G. J.
 Anderson, R. M.
 Baker, F. F.
 Bearson, R.
 Blight, A. F.
 Blink, R. L.
 Brueggemann, H. P.
 Brundred, L. L.
 Caldwell, D. D.
 Chaffee, G. A.
 Clayton, R. K.
 Cox, C. B.
 Crafts, C. A.
 Critchlow, A. J.
 Demuth, O. J.
 Deniston, J. J.
 Driscoll, R. B.
 Dynes, W. M.
 Eggenberger, B.
 Engel, H. L.
 Froelich, J. E.
 Fullerton, P. W.
 Grancher, P. G.
 Hamming, W. J.
 Hawthorne, R. G.
 Hickey, Y.

Juniors

Kelly, G. G.
 Kowan, J. H.
 Krueger, R. E.
 Lewis, H. K.
 Locanthi, B. N.
 Lundy, W. P.
 MacLean, D. L.
 Manning, O. T.
 Mauldin, L. F.
 Mays, J. M.
 McDougall, C. H.
 Mon, D. K.
 Myers, F. O.
 Parkin, B. R.
 Peary, B. A.
 Rosener, J.
 Schaafsma, W.
 Sinclair, C.
 Sturdevant, C. R.
 Tasker, R. B.
 Terminel, R. S.
 Terry, J. P.
 Vanhanapanich, C.
 Valle-Riestra, J. F.
 Wiggs, J. S.
 Winters, E. B.

Sophomores

Allingham, J. W.
 Anderson, R. C.
 Anderson, R. G.
 Bagley, A. S.
 Bass, H. N.
 Bayley, R. M.
 Beder, E.
 Brown, R. J.
 Burkholder, J.
 Burrows, J. S.
 Collins, B. F.
 Conner, W. M.
 Dalton, R. D.
 Drew, W. A.
 Eatherly, W. P.
 Fisher, A. E.
 Foster, R. J.
 Green, H. W.
 Hann, J. D.
 Harrison, W. D.
 Hedenberg, J. W.
 Howard, P. J.
 Hybertson, H. M.
 Lambert, P. C.
 Lamson, P.
 Leavenworth, C. D.
 Lilienthal, D. M.

Sophomores

Macmillan, R. S.
 Markowitz, I. L.
 Marten, R. A.
 Mason, H. A.
 Maurus, R. A.
 McClellan, R.
 McEuan, A. H.
 Mehl, R. M.
 Needham, F. E.
 Nicolai, F. M.
 Olson, N. E.
 Otto, D. W.
 Platzek, R. C.
 Ridenour, S.
 Rigsby, G. D.
 Roberson, H. L.
 Scheck, F. F.
 Schuyler, A. H.
 Silliker, D. L.
 Spalding, D. P.
 Spooner, M. E.
 Stubbins, R. L.
 Vail, T. E.
 Walp, R. M.
 Waters, A. E.
 Wechsler, J. W.
 Wright, H. W.

Navy V-5

Allen, R. J.
 Barton, C. H.
 Chase, K. T.
 Daniel, R. H.
 Davison, R. D.
 Flynn, M. F.
 Gerhardt, C. M.
 Hain, G. N.
 Henry, W. G.
 Hershey, E. A.
 Hughes, C. B.
 McLaughlin, G. R.
 Merenes, C. R.
 Mings, J. R.
 Moore, J. L.
 Moore, R. L.
 O'Neill, D. K.
 Persigehl, R. L.
 Phillips, H. W.
 Richards, R. D.
 Rolih, L.
 Sparks, D. E.
 Terrill, H. L.

Freshmen

Adams, C. H.
 Anderson, C. J.
 Bauman, L. I.
 Bennet, C. T.
 Benton, A. R.
 Bond, C. R.
 Browne, D.
 Cantwell, J. R.
 Conover, J. M.
 Dannen, J. H.
 Hall, J. S.
 Haufe, R. C.
 Hickey, M. V.
 Hummel, J. R.
 Hunter, R. B.
 Kennedy, P. R.
 Kenney, J. T.
 Love, J. R.
 MacGregor, D. J.
 MacRae, D. S.
 Matthews, J. D.
 Moore, T. W.
 Nelson, K. L.
 Pollack, R. J.
 Pyle, N. D.
 Spalding, A. O.
 Spear, K. E.
 Vestey, E. G.
 Vickrey, W. T.
 Vogel, M. C.
 Weir, K. O.
 Wikholm, W. A.
 Wiren, J. F.

One of the most novel rocket launchers was the "Calliope," installed on the General Sherman Tank. Firing 4.5 inch rockets developed by the CIT group, a "Calliope" launcher could ripple-fire 60 rockets in one-half minute.

ACTIVITIES



Board of Directors



Officer's Banquet



Left to right around the table: Tucker, Strauss, Kelly, Newbrough, McDonald, Schneider, Roskowski, Hamilton, Wise

The chief goal of this year's Board of Directors, headed by president Rob Roy McDonald, was to do their utmost to bring student body affairs and activities back to their pre-war status, and in view of this, a need for a Rally Committee chairman was soon realized. Phil Jenson was elected to this post, and following his graduation, Jerry Schneider assumed Phil's office.

Included in the rehabilitation program was the rebirth of the Court of Traditions, the Varsity Club, the Beavers, the California Tech, and the Big T, all of which had ceased to exist during the course of the war. The efforts of this board have not been in vain.

A diligent and earnest group of students, not yielding to discouragements, they will resign their offices leaving a long list of accomplishments that have done much toward the achievement of their goal.



ASB Dance

Board of Control



Left to right: R. Stewart, J. Ward, R. Newbrough, R. R. McDonald, T. Hamilton, L. Schmidt, R. Barracough.

The Honor System at Caltech is an institution perpetuated by the whole hearted cooperation of the Student Body and the Board of Control. Passing judgment on violations of our Honor System may be the primary duty of the board, but education of the students concerning the advantages of the system has taken an important position in the duties of the board. Under the able leadership of the Student Body vice-president, Bob Newbrough, this has been one of the most successful years that the board has had.

Committees

Always a vital cog in the smooth functioning of student body affairs, the Election Committee, headed by Jerry Ward, saw that ballots were printed, distributed, that polling booths were set up, and that the returns were accurately tabulated.

The Interhouse Committee, composed of the house presidents and vice-presidents, is the official representative body of the Student Houses. This committee establishes general house policies at its weekly meetings.

The Publicity Committee, under Bob Tucker's guiding hand, did its job well during the past year. Charged with the task of securing the public's attention, the committee kept Southern California newspapers well informed on Caltech sport and social events.

Election

Interhouse

Publicity



Along with the many changes back to "old times" at Tech was the revival of the Beavers this year. This organization is composed of a limited number of student leaders who have distinguished themselves by their active participation in extra-curricular activities about the campus.

Livening school spirit in the student body through initiating and stimulating campus activities is the objective of the Beavers. Membership is therefore an obligation to service to the student body.

The success of the Beavers in quickly organizing and functioning as a service organization is due largely to the leadership of its first president, George Austin, who benefited the new Beavers with his familiarity with former Beaver activities and his new ideas.



Within two months of the revival of the Beavers, the group had staged the celebrated Pajamarino, prepared an edition of the "Little T" and handled the orientation program for the new Freshmen.

Beaver Officers

Beavers



First Row: Cherryman, Austin, Stearns, Clark, Nurre, Wozniak, MacDonald, Hicks, Hedrick, Anderson, Strauss
Second Row: Gold, Hamilton, Libbey, Bates, Sutyak, Lyons, Mendes, Powell, Ahern, Grube, Root, Jensen
Third Row: Jackson, Hayne, Jurach, Brolin, Gill, Calligeros, Schneider, Burke, Davis, Newbrough, Chamberlain.

The Varsity Club, dormant during the war years, was reorganized in a meeting held the 14th of January. Composed of men who have earned one major letter or two minor letters, it is one of the oldest and strongest-knit clubs on the campus.

The club is primarily interested in the strengthening and furthering of intramural and intercollegiate athletics, and as an additional duty, it assists the Court of Traditions in the maintenance of the college traditions. Suggestions as to any changes in the athletic situation made by the Varsity Club receive a great deal of attention from the Athletic Council.

This year's officers are: Milt Strauss, president; Denny Ahern, vice-president; Jerry Schneider, secretary; and J. J. Burke, treasurer.

Varsity Club

Tau Beta Pi



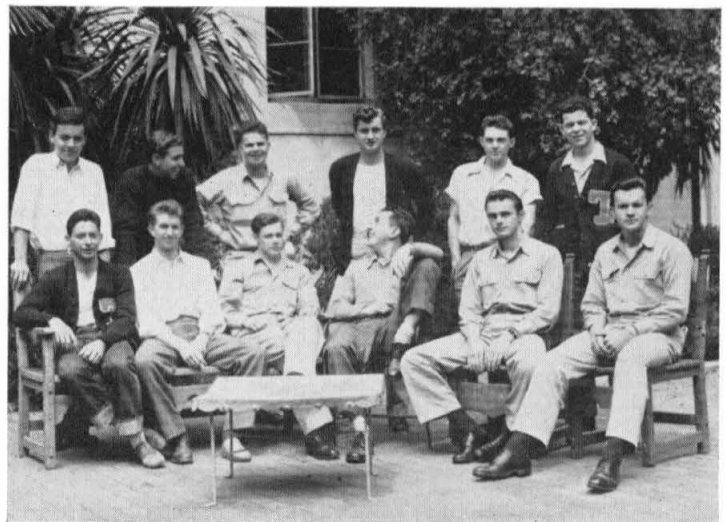
It is the purpose of the Tau Beta Pi to select its members from the highest one-eighth of the junior class and the highest one-fifth of the senior class. The criterion for membership is not only a high academic standing, but also the student's contribution to extra-curricular activities and his general diversity of interest.

Activities of the Tau Beta Pi included a beach party held early in the year, the combination formal initiation and banquet, and the formal dance which occurs once every school year. In spite of the manifold wartime restrictions, this fraternity has been able to carry on its affairs actively in much the same manner that was characteristic of its pre-war existence.

Officers for this semester are J. J. Burke, president; E. S. Ida, vice-president; DeLano, recording secretary; D. C. Lincoln, corresponding secretary; D. Douglas, treasurer; and F. S. Gates, cataloger.

The Honor Key is the award of the Student body of Caltech to those who have performed meritorious service to their school through their work in extra-curricular activities. Those receiving the Key this past semester are: Tom Hamilton, Lang Hedrick, Tom Kelly, Rob Roy McDonald, "Bits" Morgan, Bob Newbrough, Ed Roskowski, Jerry Schneider, Milt Strauss, Bob Tucker, Dale Vrabec, Bob Wise, and Frank Wolf.

Honor Key



Big T

Since 1943, the Student Body of Caltech has not received an annual. Because of this, Rob Roy McDonald appointed Frank Wolf and Joe Lesmez as co-editors shortly before Christmas. The difficult task of appropriating enough money for publication was left in the hands of Carl Rasmussen.

The staff constantly labored under unusual handicaps. Printing and engraving costs had risen about 40% over those existing in 1943, and paper suitable for the annual was nearly non-existent. At the end of February, Lesmez and Rasmussen found that their studies kept them from devoting enough time to the annual. As a result, Frank Jorgensen was appointed business manager and Leigh Sheriffs, former managing editor, was elevated to the position of co-editor. Although Joe and Carl do not appear on the staff, their work in the early stages of publication are warmly appreciated by those who finally finished the laborious task.

The editors fully realize that this annual is not quite up to Caltech standards. This is due to a considerable rise in prices, not having enough time in organizing a capable and willing staff, and other unforeseen difficulties. This edition of the Big T has carefully tried to follow the reorganization that the Student Body is undergoing at this moment. It is hoped, however, that this edition will convey from mind to permanent record, the achievements of the Institute, of students and faculty alike, during the war.



Frank and Joe

Very few people have given any of their free time to help put the "T" to press. The few who did, however, must be thanked and congratulated. Mr. Morland of the C. I. T. Purchasing Department helped procure many of the "hard to get" photographic supplies, while twenty-three unidentified aerologists consistently helped the business manager. To these, and a few others, we extend our warm thanks.

Special mention must be made to the Austin Studios who are responsible for the individual photographs. The editors realize only too well that there are many students whose pictures do not appear in this issue. The early deadline on the photographs forced the editors to leave out many "camera shy" students.

Thanks must go to Mr. Jack Cannicott of the Los Angeles Engraving Company, engravers for this "T", for his timely advice on the finer arts of publishing the annual. We also thank Mr. Keith Cordrey of the Premier Printing Company who supervised the printing of the book. We must not forget Messrs. Theron Imlay and Bob

Dahlquist, two ex-GI artists, who designed the division pages.

Last, but not by any means the least, we wish to extend genuine appreciation to the advertisers in this Big T. Without their kind generosity, this edition could not have existed. The staff hopes that the Student Body will patronize these concerns in order to show them how warmly we feel for their timely help.



In the minds of the editors, this issue of the 1946 Big T is not the mere publication of the annual, but it is the revival of an old Caltech, a school which had nearly died during the war. We, and many of the students, want to see Caltech back where it used to be — back on top!

California Tech

Staff—October to February

Editor-in-Chief . . . Don Shepard
Co-editor . . . Jim Hendrickson
Co-editor . . . Bits Morgan
Feature and News . . . Teck Wilson
Sports . . . Roger Clapp
Copy . . . George Roe
Copy . . . Matt Mattison
Photography . . . H. W. Baugh
Correspondence . . . Pete Folmer
Bussard, Foote, Jenson, Johansson,
Miller, Stowe, Trivus, and Webber.



The California Tech after being out of circulation for two years, was revitalized by two freshmen, Don Shepard and Jim Hendrickson, co-editors. Prior to the "Tech", the "Eager Beaver" was the campus rag, after the "Tech" was discontinued due to the lack of interest. Starting with a lithoprinted edition, the "Tech" soon expanded into the familiar sheet you read so avidly every Friday morning. In February, 1946, Shepard and Hendrickson gave up their positions on the "Tech" staff (due to the draft) to Bits Morgan, the present editor.

The school appreciates the work and effort of these men and their staffs in reviving the California Tech.

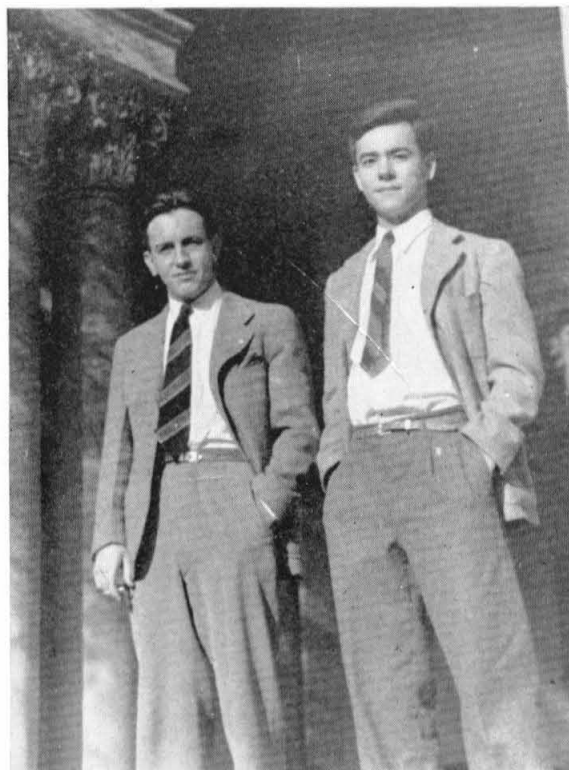


Staff—March to June

Editor-in-Chief . . . Bits Morgan
Editor . . . George Roe
Sports . . . N. J. MacDonald
Feature . . . Fee Lewis
News . . . Hugh Carter
Music . . . Frank Valle-Riestra
Photography . . . H. W. Baugh
Artist . . . Carlos Navarro
Exchange . . . Ed Carr
Advertising . . . Denny Ahern
Office Manager . . . Sid Trivus

Little T

The Little T was again printed in February, 1946, after a lapse of a year and a half. Editors of the handbook were Ed Roskowski and Dale Vrabec, working in conjunction with the Beavers. Credit must be given to these two men for turning out a fine job in the limited time allowed for publication.



Roskowski and Vrabec



First Row: Young, Sheriffs, Duke, Strong, Oey
Second Row: Dyson, Hardy, Hammock, Golding, Misner
Third Row: Harrison, Gryder, Hammermeister, Showell, Peterson, Moje, Rock

The Chem Club nearly died during the war due to the lack of chemists at the Institute. However, under the direction of John Showell, the few remaining members of the species were collected together, and the club was kept going. This March, when Showell graduated, Frank Rock was elected president, and Joni Brachfeld vice-president. It is the hope of the new officers to give the club a badly needed shot in the arm, planning interesting lectures by visiting speakers and discussions on the chemist's favorite topic—chemistry.

Chem Club

Ski Club



Rob Roy McDonald, President 1945-46



C. W. Hunt



The Hut at Snow Valley

Since its organization in 1937, the Caltech Ski Club has instituted numerous developments for furthering the active interest in skiing evidenced by Tech men. The most important of these is the Ski Hut, built for the week-end use of the Club's members. It can accommodate 60 persons and has frequently been the scene of excellent mixed parties. Transportation pools to the hut and to other skiing areas are arranged by the Club.

Racing is open to all; and the Club, besides providing at Snow Valley a convenient spot for getting its members in shape, arranges both inter-collegiate meets for its undergraduate team, and open-meets for the entire Club. Free instruction is given to team members by coach Larry Thackwell and to beginners by the more expert skiers of the Club. Now that the Student Houses are again functioning, the "Lilly Inter-House Ski Trophy" will also once more be presented annually to the winning student House ski team.

This year, an unusual shortage of snow has prevented Tech from doing any important racing. Membership in the Club is open to all Caltech students and persons affiliated with Tech, regardless of their experience (or lack of it). This past winter, the club was guided by Rob Roy McDonald, president and Dick Lagerstrom, secretary-treasurer.

YMCA

Created for the purpose of supplementing the scientific and technical education with the religious, social, and moral implications of a well developed life, the Caltech YMCA has succeeded in creating for itself a respected place on the campus.

Although many of its activities were seriously curtailed by the war, the Y has performed a long list of services. Highlighting the year's social program were two successful Frosh Tea Dances, informal religious bull sessions, a barbecue and dance with Scripps, and Y student forums featuring speakers on various political and social problems.

Traditional services which have been performed this past year include the used book exchange and the loan fund for students finding themselves temporarily embarrassed by a shortage of cash.

In the absence of a general secretary, the office of adviser has been filled by Dr. Hardin Craig.

Officers for the first semester were Bob Wise, president; Frank Wolf, vice-president; Louis Jensen, secretary; Dick Spellman, treasurer. Continuing their good work the second semester found as president, Frank Rock, vice-president, Don Hibbard; secretary, Earl Duke; and treasurer, Dick Spellman.

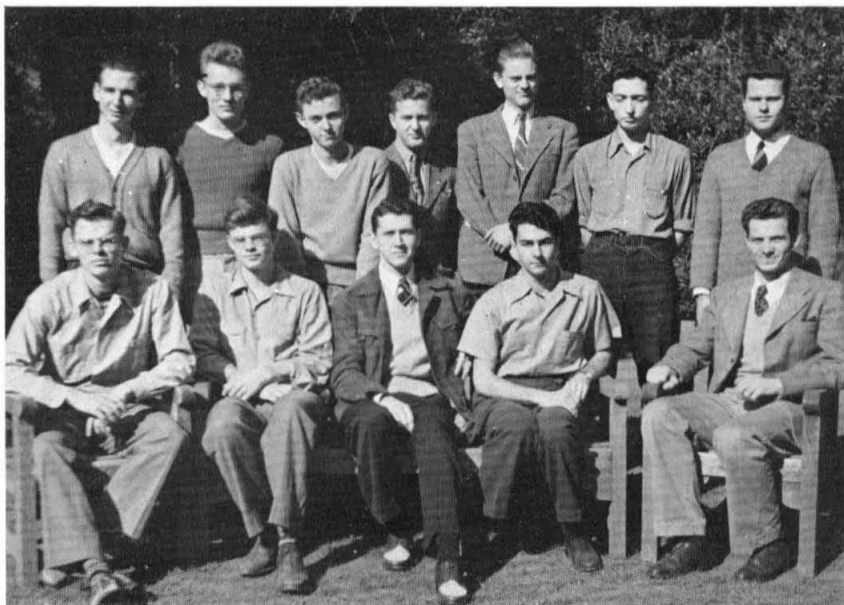


Front Row: Spellman, Wise, Oey
Second Row: Schuster, Wolf, Jensen
Third Row: Soule, Hibbard, Sensibaugh



Second Semester Officers:
Rock, Hibbard, Duke, Spellman

Musicale



The Caltech Musicale provides an opportunity for students to enjoy the finest in recorded music by sponsoring noon concerts every day of the week, as well as an informal Sunday evening symphonic program. The Musicale is in the possession of a fine reproducer and a large collection of records, gifts from the Carnegie Foundation. Membership is open to anyone interested in fine music and entitles one to use all available equipment.



Rex Stewart and His Trumpet

Caltech once again claimed its own dance band upon the return of its leader and arranger, "Rex" Stewart, from a vacation working as a professional musician. Seven men and a girl provided music that was enthusiastically approved by the campus critics as well as offering experience and enjoyment by the expression of modern ideas in music for the members of the band.

Orchestra



Radio Club

First Row: Babcock, Taylor, Chavez, McEwan, Langerstrom, Jensen
 Second Row: Rehtin, Stensgaard, Hufford, Burke, Dyson, Blackman
 Third Row: Smith, Powell, Clapp, Wilson, Neale, Kempton

Forgotten during the war years, the Caltech Radio Club, under the able leadership of John J. Burke, as

president, and capable guidance of Dr. H. V. Neher as faculty advisor, has this year been cleared of the dust and spiderwebs which have collected during the period of inactivity. Aside from reorganization, no definite projects have been attempted by the Club this year, but several of the members have been active on the two and one-half and ten meter bands.

Since its organization in 1920, the ASCE has for its primary objective, the familiarizing of its members with current engineering practice. "N" field trips were taken to help accomplish this objective: inspection of the Lytle-Cajon Flood Control Project; a visit to the Naval Dry-docks at Terminal Island; and an inspection of the Metropolitan Water District's Water Treatment Plant at La Verne, Calif.

Social Events included a beach party at Corona del Mar, a barn dance at Mountain Oaks, a chapter sponsored May dinner meeting for the Los Angeles Section of the ASCE, and a "field day" at Oakmont.

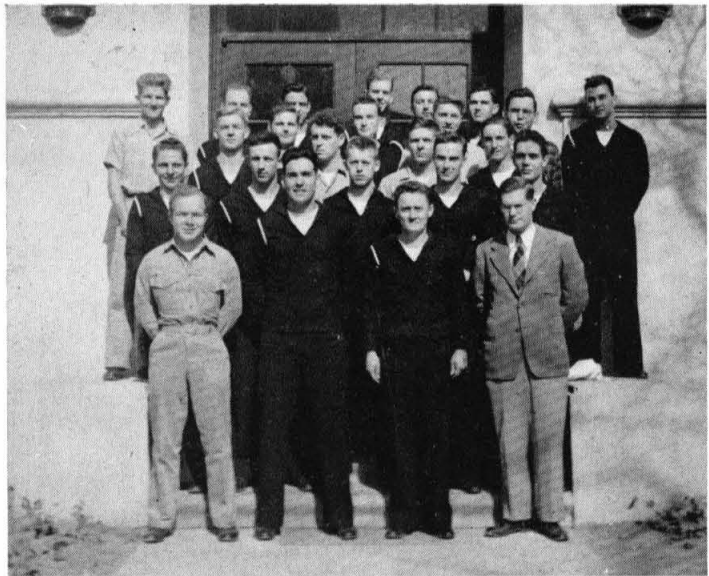
Officers for the winter term included Elliot Stephenson, president; J. A. Anderson, vice-president; R. C. Warner, secretary; H. D. McCann, treasurer. Officers for the spring term included Jerry Schneider, president; John Richter, vice-president; Chresten Knudsen, secretary; and Joe Colley, treasurer.



ASCE

ASME

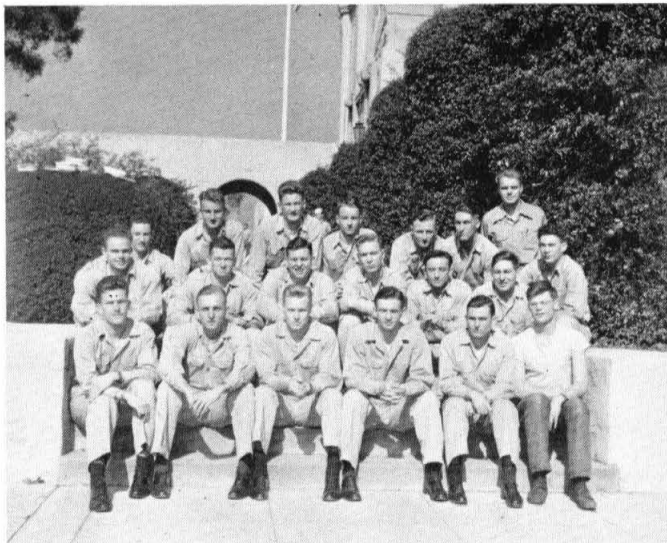
This term's events of the ASME were highlighted by a lecture given by Professor Hollander who presented an interesting paper on the "Comparison of Gas Turbines with Steam Turbines and Gas Engines." Members go on field trips, attend meetings, and participate in discussions and lectures given by prominent speakers from business and engineering concerns. Close contact is established with the parent Society's Los Angeles section, where student members have unusual opportunity to meet many of the practicing engineers of this district. Officers for the year were Dr. Hudson, newly appointed faculty advisor, succeeding Professor Daugherty; John Sutyak, chairman; John Calligeros, vice-chairman; Jack Pounder, secretary-treasurer.



Row 1: Pounder, Calligeros, Sutyak, Hudson
 Row 2: Root, Bates, Nurre, Clark, Bissiri
 Row 3: Lamson-Scribner, Ricks, Doig, Fleming
 Row 4: Stuart, Evenson, Comlossy, Furst, Schmidt, Sarmiento
 Row 5: Densmore, Gates, Watt, Muzychenko, Lyon

The purpose of the American Institute of Electrical Engineers on campus is to acquaint EE's with professional engineers and to coordinate their activities on campus. Inactive during the war years, the club started anew this year with a trip to Boulder Dam. Other activities of the season

included a joint meeting with the newly organized IRE for a lecture on the mass spectrograph and weekly meetings with the Los Angeles chapter. This year's officers are S. R. Nixon, president; W. F. Horton, vice-president; O. Wade, secretary.



First Row: Rechtin, Davis, Wolbers, Nixon, Robinson, Hufford
 Second Row: Seagrave, Horton, Ireland, Dick, Ida, Zagorites
 Third Row: Levin, Downs, Brolin, Dyson, Allison, Wade, Lincoln, Stearns

AIEE



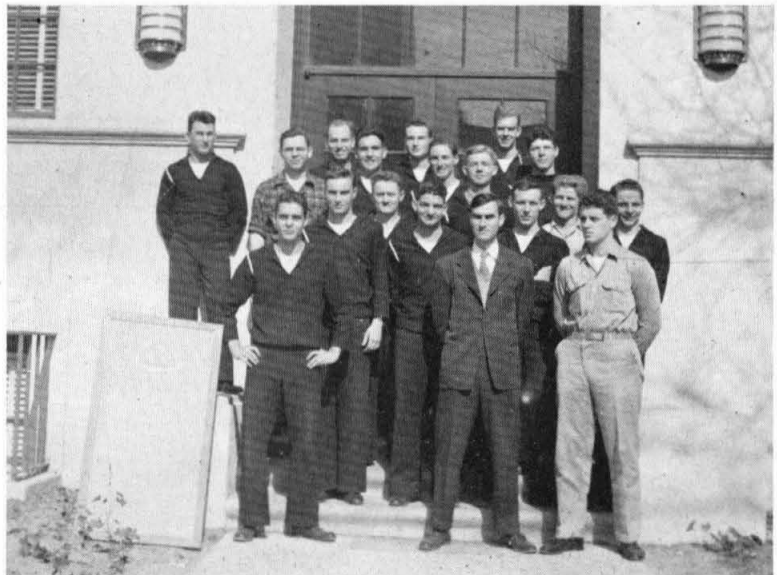
First Row: Rehtin, Chavez, Wolbers, Babcock, Robinson, Hufford, Neilson
 Second Row: Seagrave, Froham, Horton, Ireland, Schuster, Barton Zagorites
 Third Row: Burdg, Levin, Lagerstrom, Dyson, Jensen, Royden, Wilson, Evans
 Fourth Row: Burke, Ida, Clapp, Stensgaard, Wade, Lincoln, Dunn, Sensibaugh

IRE

The desire of the EE Communications majors to participate in an organization analagous to the power option's AIEE, resulted in the formation of a student branch of the Institute of Radio Engineers. The IRE officially began in the summer of 1945 when C. R. McEwen was chosen chairman and J. C. Chavez, secretary. Cooperation with the AIEE led to a field trip to the transmitter of station KPAS (putting it temporarily off the air, thanks to "R-F" Sensibaugh), a journey to Boulder Dam (left intact because nobody could touch anything, but Las Vegas will never be the same), and a number of lectures. A great deal of credit for the fostering and encouragement of the group is

due to both Dr. S. S. Mackeown and Dr. W. F. Pickering. Mr. J. S. Campbell also helped the club out of difficulties more than once. The graduating seniors wish next year's IRE an active and interesting season.

The SAE provides an unusual opportunity for the student engineer to become acquainted with leading engineers of this district, as well as vital problems of national production through section meetings, monthly student chapter meetings, and occasional field trips. While the major concern of the SAE in this district is in the field of aeronautics, the Society embraces other phases of engineering and should find appeal for all students interested in the application of the chosen option to the overall pattern of industry.



Row 1: Bissiri, Kryopoulos, Ricks
 Row 2: Clark, Klein, Conradt, Root
 Row 3: Sutyak, Lamson-Scribner, Stuart
 Row 4: Sarmento, Schmidt, Calligeros, Fleming, Hayne
 Row 5: Densmore, Comlossy, Watt

SAE

Throop

During the war years, Throop Club carried on the traditional role of the club or "Student House" for non-resident students. Thus Throop became the mainstay of social activity for civilian students.

At the beginning of the school year, the frosh were introduced to campus life with a Stag including all the trimmings, and featuring screen entertainment that attracted even the worst "snakes". Exchange dances during the year were arranged with PJC and with Occidental. Date dances in the club lounge featured excellent recorded music from the new amplifying system. A semi-formal usually wound up the social season.

Unfortunately the uncertainties of civilian life spread even to Throop Club Board Members, and during the years since the last Big T, there have been numerous boards which met with varying success. George Bosch and then Robert Poolman were executive heads for several semesters. Fred Robins put new life into the club in the summer and fall of 1945, and Herb Strong carried on the executive duties during the winter, followed by Larry Haupt in the spring of 1946.

During the past year, the Throop Club social program featured such events as a plunge party, beach parties, exchange dances, a most successful hayride, theatre parties at the Belasco and the Pasadena Playhouse, a broadcast party, a sweater dance, and a barn dance in the genuine alfalfa-hay-reconverted lounge. The high point of the year was the joint Throop-Fleming Interhouse dance with the lounge converted to a waterfront dive by means of movie props and sets.

The Club lounge has furnished a place to relax away from the classroom; magazines, records and the radio provided entertainment together with the continuous games of cards, some of them beginning before the war. Bridge sharks under the leadership of vice-president Jack Froelich stirred up an interhouse bridge tournament. In spite of the large proportion of married veterans, athletic manager Fred Robins led several successful teams renewed in interhouse competition.

Other officers during the spring term were Marshal Pond, treasurer; Bob Benton, secretary; Chan Rypinski, social chairman; and Reed Anderson, lounge chairman.



Winter 1945 Board: Left to right—O'Brien, treasurer; Haas, lounge chairman; Smith, assoc. social chairman; Strong, president; Long, vice-president; Gould (seated), social chairman.



"Sweater Girl" Jerry Ward

Blacker



Blacker House, occupied by the Navy for three years, this term assumed normal life with a full program and an "elite" membership. Blacker has been long known as a House which tries to fulfill the ideal balance between athletic, scholastic, and social activities.

Within three weeks of reopening, Blacker held the first House dance of the term, an exchange with the girls of Scripps College. With numerous functions on the docket, including barn dances and formals, Blacker men are upholding their traditional prominence in social activity.

The future promises great success in all activities due to the cooperation and fellowship of the entire House. Blacker is led by Dave Lincoln, president; Dave Caldwell, vice president; John Elder, secretary; and Ken Parkhurst, treasurer, with the help and encouragement of "Bill" Butler, Resident Associate.



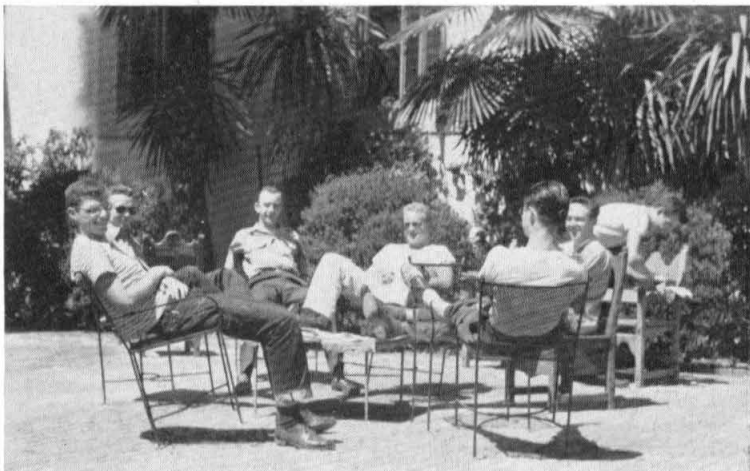
Top to bottom: The House poses in a very relaxed mood; The House officers; At a House dance.

Dabney

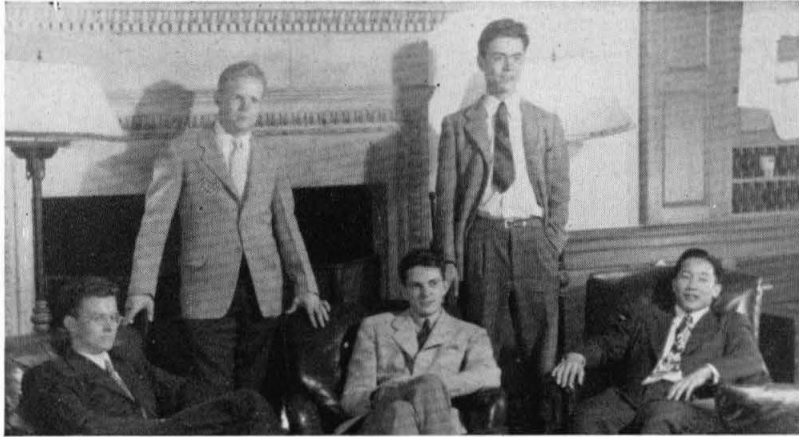
The first of the Houses to be occupied by civilians after the war, Dabney quickly took a prominent place in all phases of undergraduate activity. Athletically, politically, and socially Dabney men showed themselves to be one of the most versatile and energetic groups on campus.

Under the guidance of Social Chairman Merle Kam, the Social Committee launched its program immediately with a well attended and successful Dinner Dance, the other highlights of the semester being the Spring Formal and the Interhouse Dance, along with exchanges, a very commendable smoker, the Archery Green Picnic, and the Corona del Mar Beach Party.

Managed by Jay Stuart, Dabney has entered enthusiastically into all Interhouse and Discobolis competitions, as well as furnished men to all Varsity sports. Dabney skiers under Team Captain Larry Brundred took a decisive first in the Lilly Ski Meet and returned the trophy to its place on the lounge mantel. There it sits proudly beside Discobolis, which has been defended against all comers since the beginning of the semester. In the Interhouse meets, Dabney stands second only to Fleming in track and basketball, and to Throop in swimming. The newly inaugurated Interalley Challenge Trophy, the Throne, was captured by Alley 7, when they "nosed out" Alleys 2 and 3 combined effort by the close score of 54-9 in basketball.



They look happy. The bright stuff is what the Chamber of Commerce is always raving about. Saltman, Douglas, Lawrence, Brundred, Fong (the brawny back), Miller and Whittlesey giving his skies the once over.



The House officers in one of their more photographic moods. Seated are Associate Hummel, Ward, Kam, with Brundred and Vrabec standing.

With ASB president Rob Roy McDonald, ASB secretary Tom Hamilton, Representative Ed Roskowski, Beaver presidents Bob Barraclough and Lang Hedrick, "Big T" editors Frank Wolf and Leigh Sheriffs, and numerous Board of Control members and class officers, Dabney was well represented in campus politics and government.

Dabney began its post war existence with capable and likeable Roland Hummel as Resident Associate. The House selected for its officers president Jerry Ward, vice-president Merl Kam, secretary Larry Brundred, treasurer Dale Vrabec, athletic manager Jay Stuart, and librarian Art Viewig. The important post of House Pope was held by Paul Fullerton while Paul Saltman functioned as Toilet. The dinner lectures of DMSH Bob Stewart served nicely as a supplementary education program.

Stewart and Barraclough get in a few mid-morning licks. Evidently their nights are occupied with other things.



Fleming

Caught firmly in the reconversion mix-up, Fleming House from the outside presented a truly motley group. It consisted of thirty-four Navy V-12 Seniors remnants of the Naval Training Unit stationed at Tech for the past three years; plus an equal amount of graduate students, gathered from the services and universities throughout this and foreign lands; and also several undergraduate civilians.

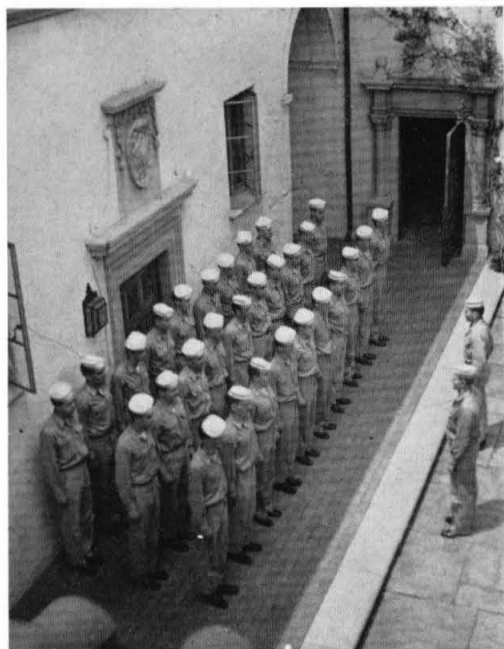


Lewis, Auerbach, and Schneider

Despite their divergent interests, these boys immediately got together to lead the field in physical prowess in Interhouse and Discobolus activities. With the aid of an ever active social program, such events as dinner dances, beach parties, hay rides, and barn dances were terrific and spontaneous hits; culminating in the Interhouse Dance, in which Fleming shared honors with Throop Club in the joint undertaking of lending a very effective atmosphere to the campus in the form of a French dive.

Fleming was foremost in school spirit and activities; boasting six of the nine ASB officers, five men (including editor-in-chief) of the "California Tech", and the backbone of the track, baseball, and swimming teams. Continuous bridge games going on in the lounge every evening helped bring all together, and "informality" was the theme at all times.

Officers for the past term were president Charles Auerbach, vice-president Bob Wise, secretary Dave Lewis, treasurer Charles Beatty, social chairman Ed Ida, athletic chairman Jerry Schneider, and "Head" chairman Bits Morgan.



Left: The V-12 Platoon;
Right: Civies

Ricketts



Left to right: Worcester, social committee chairman; Holm, secretary; Rosener, athletic manager; Granicher, treasurer; Mon, president; Butler, vice-president.

Getting back in the swing once again, Ricketts House has gotten many old members back from the war. As usual, the House has stood out in front for a social schedule, having exchanges with Scripps, Pasadena JC, Pasadena Playhouse, and the campus secretaries. Many of the traditions are back again, the House having been thoroughly soaked in a couple of excellent water fights, and the Frosh-Soph brake drum having provoked several full blown riots.

All told, the Rowdies seem well on the way to the well-rounded social life that distinguished the House before the war.



A corner when the Pasadena Playhouse came to dinner: Harvey, Nick, Rick, Dick with Virginia Owens



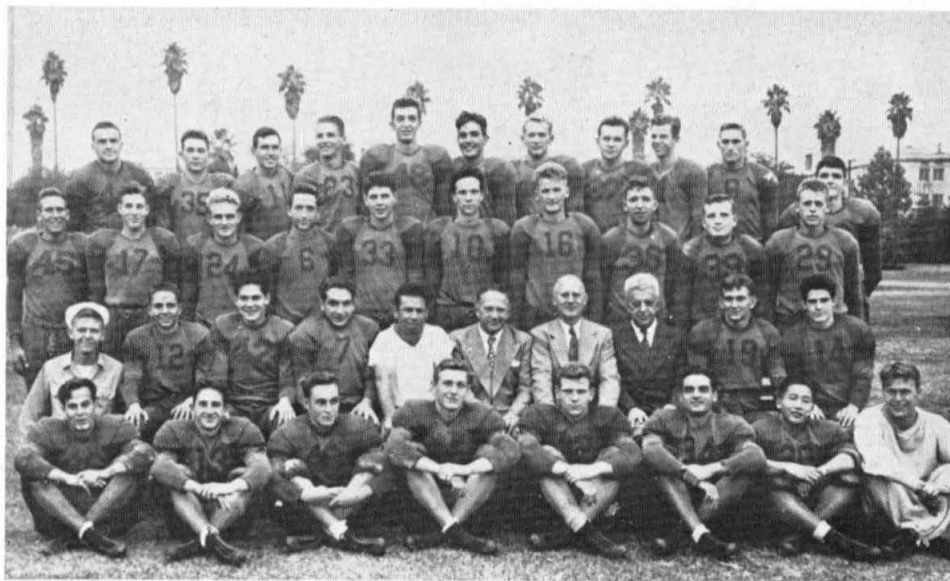
Noon in the Court

In addition to the 5 inch high velocity aircraft rockets (HVAR) developed by CIT, the Institute, in close collaboration with the Army Ordnance Department, aided in the development of one of the most mobile and deadly land-based rockets, launched from the very versatile jeep.

S P O R T S



Football



Coach Pete Brown

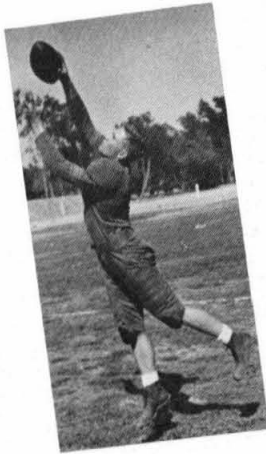
Top row: Schimenz, Stearns, Jr., Lyons, Foete, McCann, Calligeros, Long, Strauss, Taber, Hibbard, Jurach
Second row: Schuster, Wozniak, Powell, Austin, Hayne, Burke, Brolin, Neale, Lee, Nurre
Third row: Doig, Root, Davis, Newman, Coach Pete Brown, Stearns, Sr., Musselman, Doc Haines, Haines, Newbrough, Stearns
Bottom row: Winters, Mendes, Clark, Gerpheide, Libbey, Auslender, Kam, Tucker

The football seasons of '44 and '45 will be remembered by Caltech students and alumni as the two most successful seasons in the history of the old Alma Mater. The success of these teams was due primarily to the Navy's V-12 program, which brought to Tech the necessary brawn as well as brains.

The permission to play intercollegiate football was not the least of the problems facing the athletic department prior to the opening of these seasons. Only after much persuasive arguing and final compromising did the Caltech administration finally give its consent to play football. The permission to play was given so late in the year that only four games could be scheduled for the '44 season. The powerful Beaver eleven developed by Navy Chief Specialist Mason Anderson in turn wholoped Redlands in two contests, USC J.V.'s and the UCLA junior varsity. The '44 season ended with the Engineers hailed as one of the very few undefeated, untied, and unscored upon teams in the nation. In fact, only one team got within Tech's thirty yard line.

This season, with the Navy still at Tech, but with only three returning lettermen, the pre-game outlook was not promising. However, a six game schedule was drawn up, Pete Brown was engaged as the new coach upon Chief Anderson's transfer. An inexperienced but enthused group of about 50 men greeted Coach Brown when fall practice started.

Building around the three lettermen, halfback Jerry Wozniak, tackle Bill Libbey, and guard Milt Strauss, Coach Brown rapidly whipped the '45 edition of the Engineer football team into shape for its opener against Redlands in the Rose Bowl on Sept. 7. Opening games always introduce a few jitters but in this affair Tech was guilty of enough fumbles to supply several teams. Although the Engineers piled up 216 net yards from scrimmage while holding Redlands to 52 yards, seven unrecovered Tech fumbles spelled the difference between victory and defeat. Redlands drew first blood on a long pass on the second play of the game. Their second score was on an intercepted lateral. Many Engineer scoring opportunities were nullified by the numerous fumbles. The Beavers dropped the game 13-7.



Don Hibbard



Cheer Leaders: Joyce Risser, Eleanor Arge, Ruth Risser



Hubie Clark

Occidental proved no threat when, on September 14, the Beavers, bouncing back from the bitter Redlands defeat, raced over an outclassed Tiger eleven 20-0. Wozniak's pitching arm accounted for 18 of the 20 points.

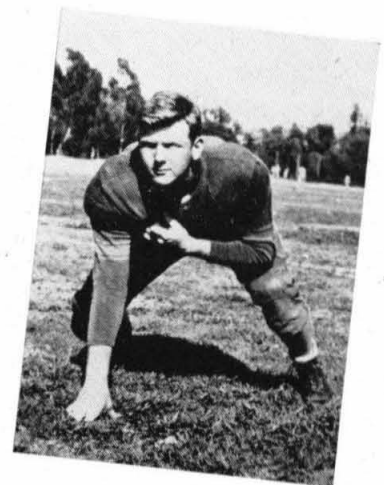
On September 22, the Techmen bogged down at San Luis Obispo when they lost a close one to Cal Poly, 7-6. One of the fluke plays of the season, poor officiating, gave the Beavers a defeat instead of a deserved tie. After marching more than half the field, Tech chalked up its touchdown on an aerial from Wozniak to Schimenz. Chamberlain then attempted the conversion, which was blocked; however, Wozniak scooped up the loose ball and ran it over for a legal point. The referee blew his whistle, signaling a dead ball, hence the extra point was no good. The referee admitted that he was in the wrong in blowing the whistle, but he could not reverse his decision—but then it was too late.

September 29 found the Beavers edging the UCLA jayvees 6-0 in the Coliseum. The score doesn't indicate the beating UCLA took that afternoon. The jayvees never threatened to score and most of the game was played in UCLA territory.

The climax of the season was the game with San Diego State, at the Border City, on October 6. Playing enthused ball before the largest crowd of the season, the Engineers racked up 32 points to soundly trounce the Aztecs. It was in this game that Dutch Schimenz, former Kansas University letterman, and Mort Powell ran wild, breaking away for long gains time after time. Each man accounted for two touch-

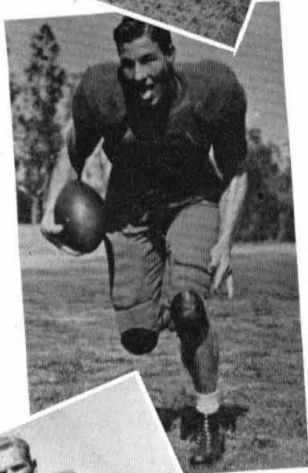


Dick Schuster



Bill Libbey

Football



downs to thrill 12,000 fans at Balboa Stadium. State was held to 7 points until the final few minutes of play when a laxity on the part of Tech reserves enabled the Aztecs to complete long passes and set up two quick touchdowns. Final score: 32-20.

The second Oxy game on October 13 was an anti-climax to the State game and the lifeless ball game that resulted was somewhat of a disappointment to the fans. Tech wound up its season with a 19-0 win over the hapless Tigers at Patterson Field.

At the close of the season, Milt Strauss, guard, was elected honorary captain. The Wheaton Trophy, Tech's annual football award, was presented to four men this season. Only a few points separated each man so it was impossible to give the award to one and not another. Halfbacks Elmore Brolin and Al Stearns, end Hubie Clark, and guard Milt Strauss were the men so honored.

Again the old question of whether or not Tech would be allowed to play football in '46 confronted the athletic department. Petitions were circulated among the students and arguments were drawn up for presentation to the faculty. A unanimous vote favoring participation in intercollegiate football cheered Tech gridiron enthusiasts. With three hearty cheers for the Caltech administration and hearty support for our returned coach, Mason Anderson, we look forward to a successful season in 1946.

Top to bottom: Gerpheide, Wozniak, Long, Powell

Basketball

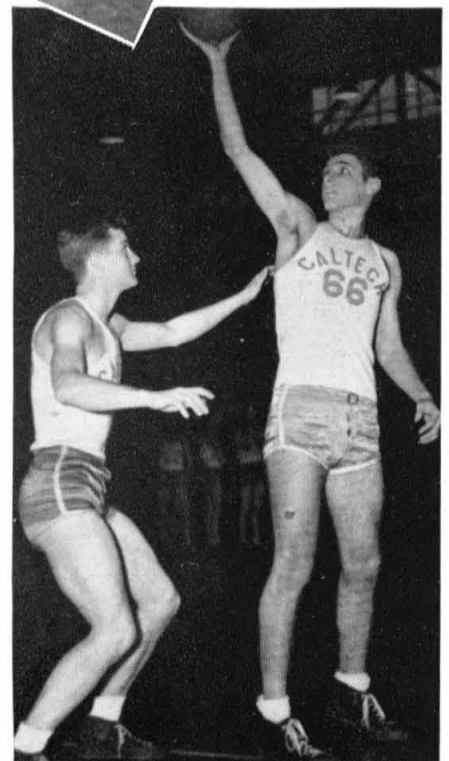


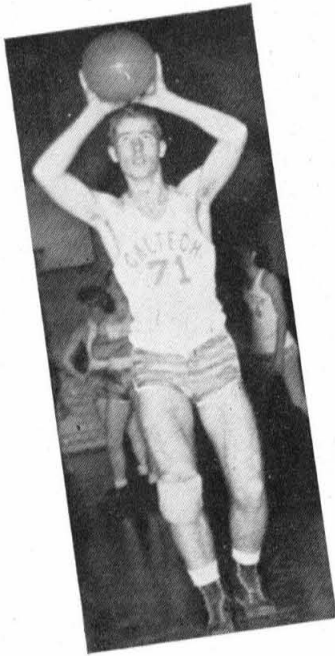
Row 1: Coach Anderson, Jurach, Saltman, Martin, Gold, Strauss
Row 2: Brolin, Schneider, Bates, Nurre, Jensen

Although finishing third in the Southern California Conference this year, Tech's "high-potential" basketekers were selected as the eighth college team on the coast by the Dunkle National Rating Board. Dropping two games to Redlands, one to Oxy and one to Whittier, none by over five points, the Engineers finished the league with four wins, four losses.

It was not until the last three games that Carl Shy's boys could get rolling. Loaded with material, the squad began to click too late. Outstanding player of the year was Captain Stu Bates. Combining his sterling floor knowledge with his amazing speed, Stu was consistently breaking up the offense and getting the ball off the back board. Starting the season as a forward, Jerry Schneider was switched to guard by Coach Shy to utilize his speed and deftness in handling the ball. The forward spots were filled by Dick Jackson and Tom Martin, V-5 frosh flashes. Jackson led Tech's scoring column with 181 points; Martin, in his first year in a basketball suit, was a constant threat with his jump shot. Cavorting at the center slot was Paul Saltman, 6'5" freshman. The only civilian on an otherwise all Navy team, Saltman's height added to the team's strength under the baskets. Filling out the squad were Vince Nurre, fast stepping forward, Paul Jurach, giant center, Dick Gold, dead-eye guard, Elmer Brolin, rugged ball hawker, and Denny Ahern, fighting defense who was unable to finish the season because of a strained knee.

In the first game, the Beavers romped over a hapless Pasadena J. C. quintet 49-33. In the next tilt, the Camp Ross soldiers, paced by Don Barksdale, smothered Tech 51-25. Jackson led the Engineers to a victory over Los Angeles City College

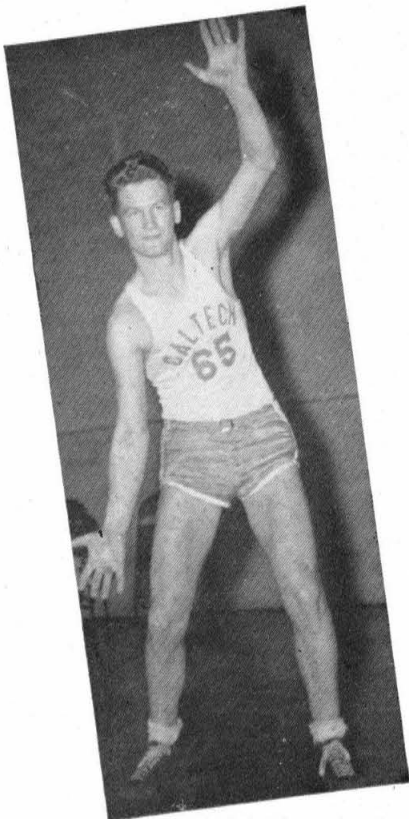




Jackson

The March Field Flyers, paced by many former college players, handed Tech a 49-35 defeat. Unable to break its losing streak, Tech was able to score only nine points in their tussle with UCLA. Too eager to get home for Christmas, the Techmen played slow, sloppy ball, to lose to the Bruins 33-9.

The Whittier Poets holding a strong lead at the half, resisted every Beaver rally to win 43-38. The Redlands



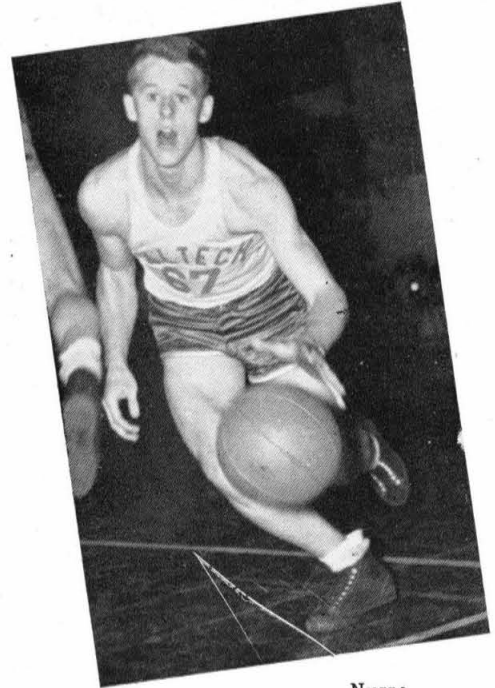
Brolin

by mangling the meshes for 22 markers; the final score was 34-28.

The boys from the Arroyo narrowly edged out Whittier in the first league game by one point. Leading at the half, Tech stopped a last minute Poet rally to emerge victorious 30-29.

Once again the team met Barksdale & Co., only to go down fighting to a more experienced squad 73-45.

In the first encounter with the Oxy five, the Beavers trailed 16-19 at the half. Closing the gap rapidly at the beginning of the second period the Engineers squeezed out a 37-35 win. The slide rule kids met the mighty Trojans at USC; playing one of their best games of the season, the team fought USC to a final score of 25-33 in favor of the Trojans. On the Redlands hardwood the Tech aggregation relaxed after a seven point half time lead to be dumped by the bulldogs in a wild fray, 51-47.



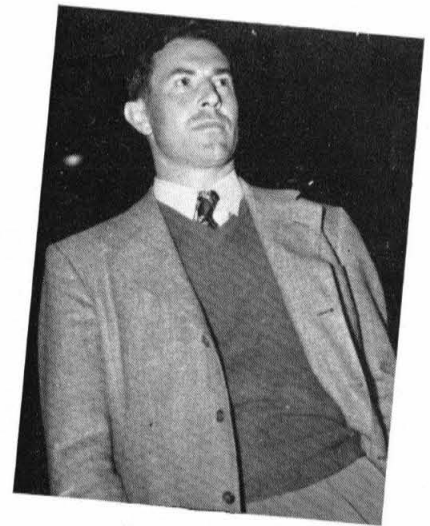
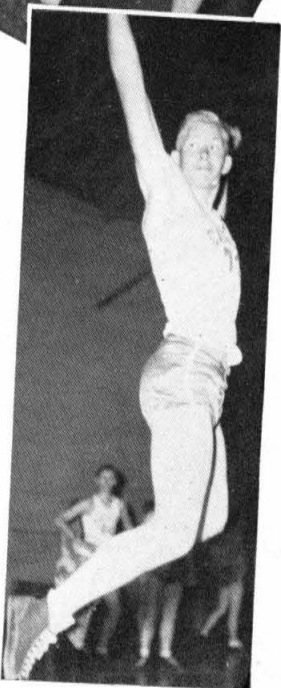
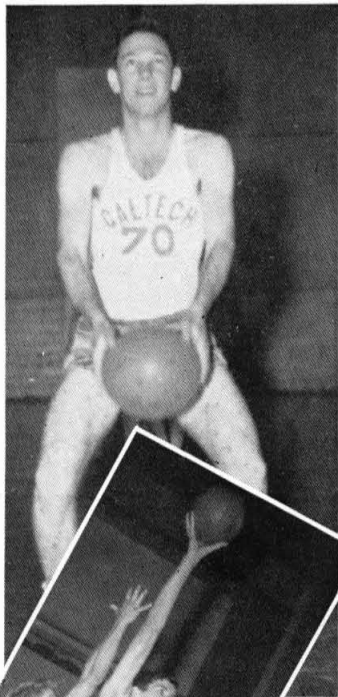
Nurre

quintet left the orange groves long enough to subdue the Engineers 39-43. Tech dropped two more: 43-32 to Pepperdine, and 47-61 to March Field.

At long last the boys in the Orange and White came to life, slapping a 46-31 defeat on Pomona. Jackson found the bucket often enough to head the scoring with 16 points. Next week found the squad attempting to twist the Oxy Tiger's tail, only to be bitten 38-41. Out-playing the Oxy five all the way, Tech lost at the free throw line, where they missed 12 gift shots.

Thoroughly disgusted from the Friday encounter, the enraged Beaver shocked the local sports writers by dunking the Pepperdine Waves 43-41. This was by far the most exciting game of the year. Tech took the lead from the start and at the half led 20-12. With twenty seconds to go and the score tied 41-41, Schneider made a beautiful half-court shot to put Tech ahead. Two Pepperdine shots were blocked in the remaining second before the gun finished off a wild game. Again the Beavers took Pomona in stride with Jackson hitting 16, and Saltman 13, to the tune of 50-41. Journeying to San Diego, the team was wined and dined by their generous navy hosts before the game so well that they were unable to get over their sluggishness and lost 38-46.

Basketball

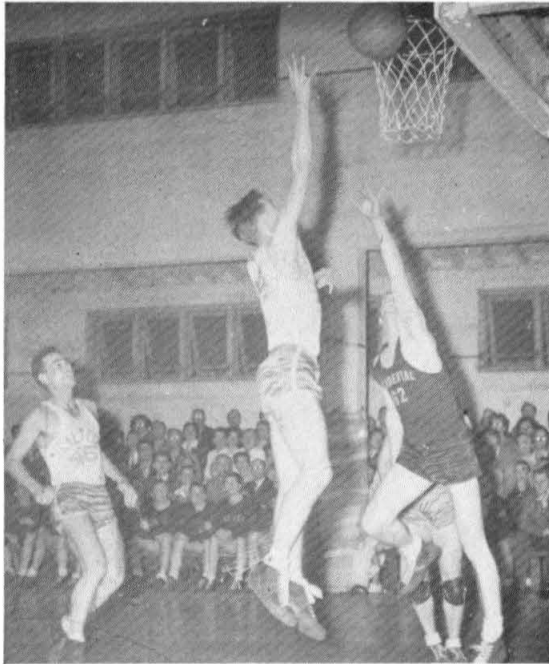


Coach Shy

Not enough credit can be given Coach Shy. Hampered by not having a gym to work his team out, Coach managed to mold a dangerous team to any opponent. There can be no predictions for next year's team since all of the Navy is leaving Tech and the only civilian letterman will be donning the khaki. However, with Coach Shy at the helm, Tech will again floor a fighting squad.

WE		THEY
49.....	PJC	33
25.....	Camp Ross	51
34.....	LACC	28
30.....	Whittier	29
45.....	Camp Ross	73
37.....	Oxy	35
25.....	USC	33
47.....	Redlands	51
35.....	March Field	49
9.....	UCLA	33
38.....	Whittier	43
39.....	Redlands	43
32.....	Pepperdine	43
47.....	March Field	61
46.....	Pomona	31
38.....	Oxy	41
43.....	Pepperdine	41
50.....	Pomona	41
38.....	San Diego NTC	46

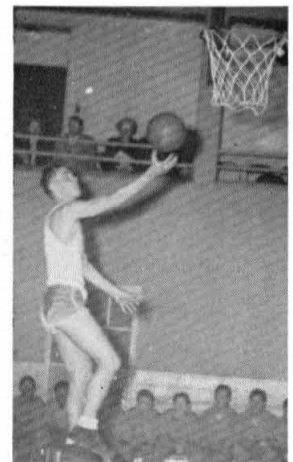
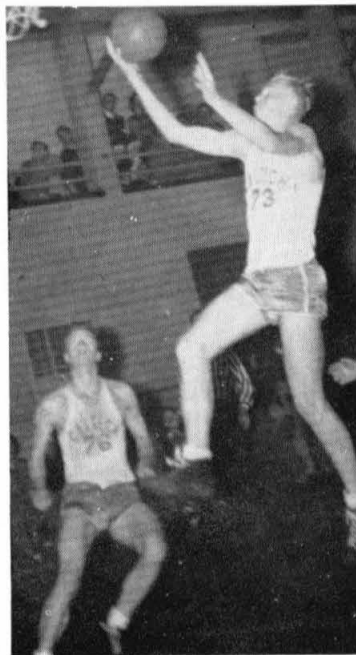
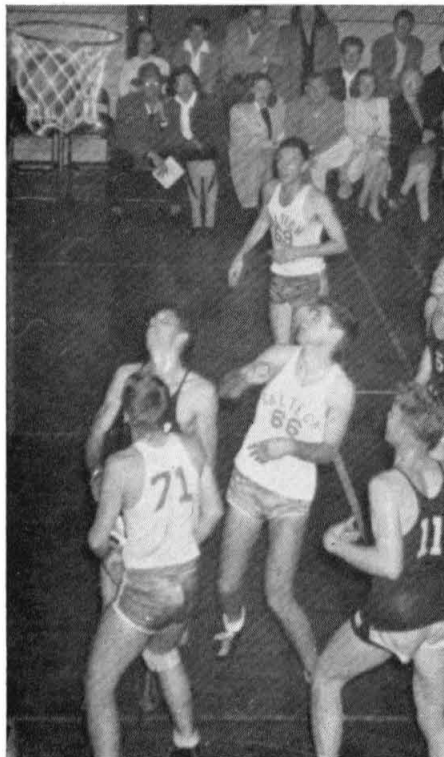
"B" Basketball



In place of the Frosh teams of the past, a Junior Varsity squad was organized. With no regular league scheduled, the Beaverbabes took the mythical championship by crushing the Redlands Bullpups twice and the Oxy's Tiger-cubs for an undefeated conference season. Coach Anderson, his discharge button gleaming brightly, centered his plays about his two swift forwards, Bob Newbrough and Jay Stuart. These boys were constantly fast breaking the opposition guards silly. At the center was "Big" Art Bruington, former prep flash from Wilson Hi. Rounding out the team were Ken Parkhurst, tricky veteran, and Dexter Gans, powerful V-5er. Also seeing much action were forwards Felix Miner, Dick Breed, Guy Carawan, and George Eroo; center Carl Omer; guards Wendel Gates, "Moon" Mullens, and "Big T" Dolan, the silver nitrate kid.

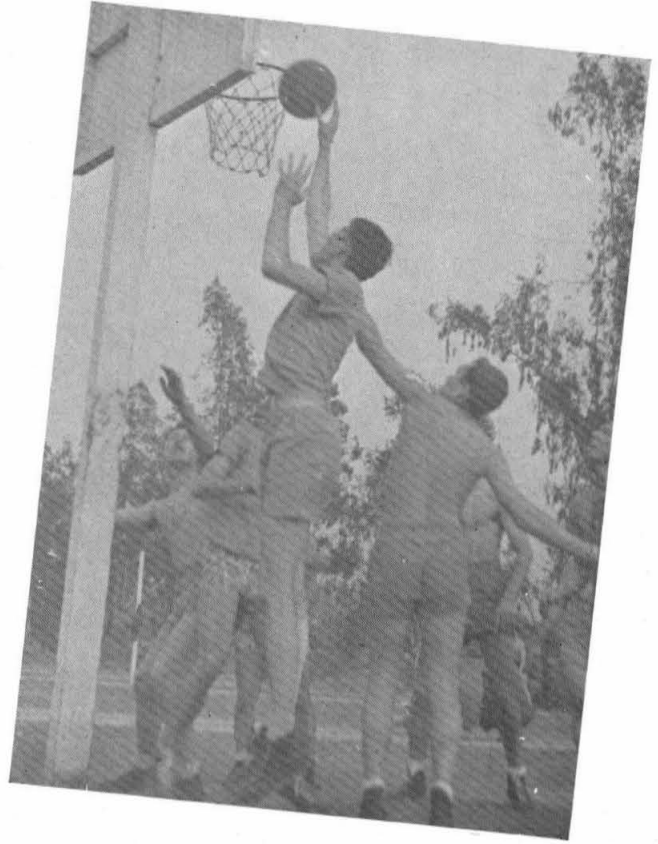
In the first game with Oxy, the Junior Engineers rumbled over a fighting but outclassed five 30-25. In the next two games, the "Little" Beavers crushed the Redlands orange pickers 38-16 and 47-21 with very little trouble. Once again the Oxy JV bowed before the mighty JV squad, this time 35-23.

Under Coach Anderson's skillful direction, Tech will undoubtedly again cop the championship next year.





Above: Miller tries a long shot
Right: Walquist sinks one for Dabney



In a series of hotly contested games, Fleming House has taken the lead in the new interhouse basketball tourney, followed by Dabney. Fleming, led by varsity star Jerry Schneider, has eked out victories over all of its opponents, usually by two or three point margins. Dabney House has shown great power in almost all of its games except for the two with Fleming. Led by Carlos Navarro and Jay Stuart, the Dabney men pose as real threats to the championship. The league is composed of six teams: Blacker, Dabney, Fleming, Ricketts, Throop and a team composed of off-campus veterans.



Intramural Basketball

Cross Country

Lack of opponents limited Coach "Doc" Hanes Cross Country harriers to only three contests. In the opener, UCLA took a 20½-37½ victory over the Westwood course. Frank Johnson placed third, George Gill tied with UCLA for fourth and Jim Densmore, who placed eighth, were the only Tech men finishing in the first ten. In the return match on the Tournament Park course, UCLA again emerged victors 23-38. George Gill romped in an easy winner in 13m 31.1s for the 2½ mile course, with Frank Johnson finishing fourth and Jim Densmore ninth.

In closing the season, Tech accounted for its only victory in defeating Compton Junior College 25-30. With Johnson and Densmore out with the flu, the Beavers were hard pushed to win the meet. However the reserves, Ebby Rehtin, who finished seventh, Ed Carr ninth and Dale Bement tenth, came through to give Tech the margin of victory.



"Doc" Hanes



They're off! The distance men from UCLA and Tech start on the two and one-half mile grind.

Track

After last year's reign as the Pacific Coast champions, the Tech spikesters failed to defend their title successfully. Their failure to do so is due, in part, to the transfer of most of the Navy men to other schools, as these men constituted nearly all of last year's team.

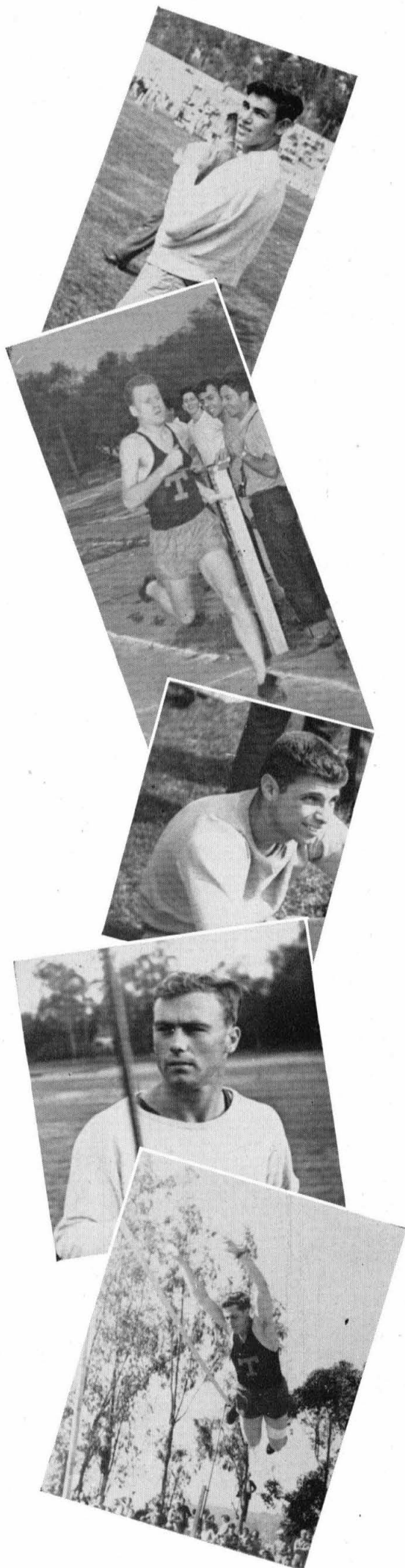
The renewal of the Interclass meet led to a Fleming victory with 55 points and Dabney close behind with 50½. Fleming's main asset was Tom Kelly who garnered 18½ points for the Navy boys with first in the vault, discus and high jump, and a second in the broad jump. Slow but not unpromising times seemed to be the order of the day.

In the annual College relays on the cold and wet Patterson field of Oxy, Tech participated in its first track meet of the season. The final score was: Oxy 43, Redlands 19, Pomona 14, and Tech 12. Our twelve points were scored by: Chamberlain, Funk, Shaller, and Davis in the 880 relay with a second, and Miller, Saltman, Colley, and Baker, a third in the shuttle hurdles. In the field events, Grube placed second in the high jump and Kelly placed in the pole vault.

Following the cancellation of the San Diego Relays, the Beavers played host to Pomona, Whittier, and Redlands in a combination of dual meets. Redlands triumphed over all of their foes by wide margins. The final score of the four-way meet was: Redlands 74, Pomona 40¾, Whittier 26¾, Caltech 23½. In the meantime, Tech emerged from one of the dual meets on the long end of a 75-54 score over the Whittier



Standing: Coach Hanes, Hartman, Walquist, Marshall, Shaller, Grube, Hayward, Danielson, Bement, Simons
Seated: Funk, McLain, Saltman, Colley, Miller, Kelly, Chamberlain, Ingram, Lundy



Doc Floyd Hanes

Poets. Two weeks later, bouncing back from a stinging defeat placed upon them by Occidental, the Tech cinder burners came through with a convincing triumph over the Terminal Island Bluejackets. Joe Colley and Charles Shaller led the Tech men in gathering $9\frac{1}{4}$ and 10 points respectively.

Succeeding the Navy meet was a series of disastrous encounters which at the best did nothing but make Coach "Doc" Hanes hope for an improved track squad next year. In a triangular meet with the Los Angeles Athletic Club and Pepperdine, we had the privilege of watching such stars as Johnny Wilson, Bob Peoples, Al Hershey, and Cliff Bourland. The quadrangular meet the next week with UCLA, Pomona, and Loyola, was, as expected, a runaway for UCLA while the Tech men had to be satisfied with a third place behind Pomona.

Tech's cinder men have five more meets in their schedule this year. A conference meet at Pomona, the Fresno Relays, the Coliseum Relays, the Pasadena Games, and the SPAAU championship at Compton round out the schedule this season as the Big T goes to press. Although the mid-season outlook is none too bright, the men might find their stride by the end of the season.

Top to bottom: Bass, Colley,
Saltman, McLain, Kelly

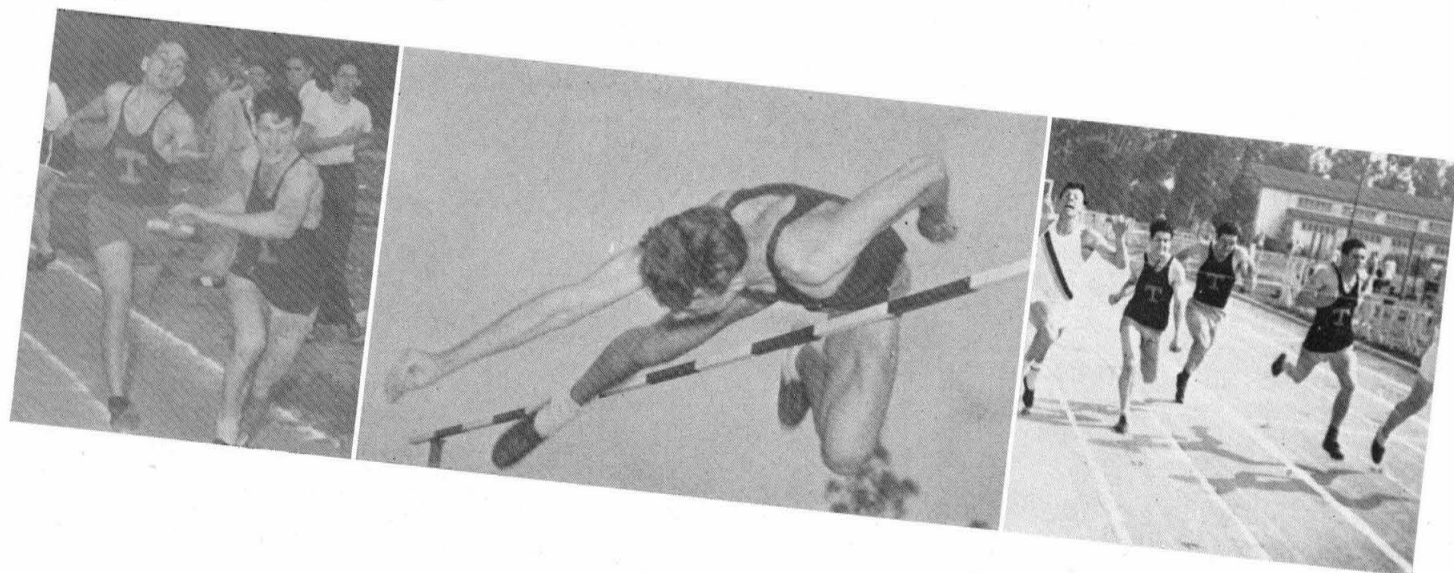
Track

This year's track team seemed to lack strength, but there is good promise of better things to come from sprinters Shaller, Wiren, Funk, and Hartman who should be crowding the 10.0s in the hundred dash next year. Hurdle prospects are good if draft-agers Miller and Saltman are allowed to return next year. After four years in the army, Bill Lundy has hopes of hitting his stride again at a 4:40 mile clip. Conference half-milers are going to have a difficult time beating Bill Simons next year. This year so far Bill has done 2:07 which placed him in the conference meet. Doc Hanes hopes that among the students next year he can find replacements for seniors Colley (low hurdle and 440), Kelly (pole vault and discus), Bement (miler), and Grube (high jump).



Joe Colley

Left: Passing the mail. Center: Grube makes it. Right: The finish line in the 100 yard dash.



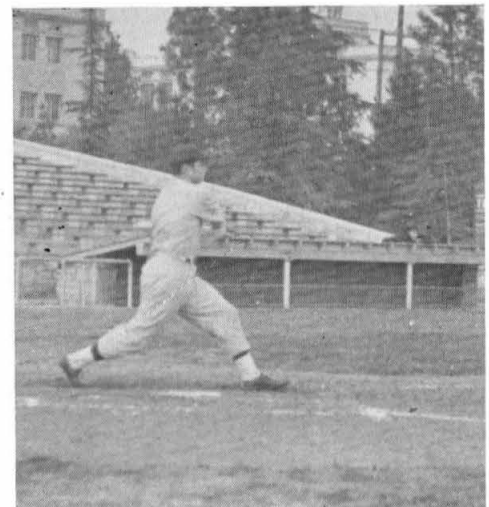


Front row: Ahern, Griffin, Strauss, Viewig, Butler, Patterson, Kam
 Middle row: Coach Musselman, MacDonald, Hedrick, Parkhurst, MacGinitie, Spaulding,
 Petrulas, Coach van Gelder
 Top row: Duke, Pollack, Six, Tucker, manager

With a large group of inexperienced material and only four lettermen, Coach Hal Musselman was faced with the big job of whipping a team in shape. Outfielder Milt Strauss, who led the league in hitting last year with an average of .449, and Norman MacDonald, reserve pitcher, are the only men remaining from last year's championship squad. Langdon Hedrick, who pitched on the 1940 team, and "Huck" Davies, pitcher in 1942 and 1943, have returned to school and assured the team a good hurling staff. No one else on the 30 man squad had played before and the entire make-up of the team was a big question mark.

The first game of the season, with PJC, turned out to be a pitcher's duel—who could throw the most wild pitches and walk the most men—as well as a very spotty exhibition of baseball, with many mistakes made by both sides. Tech overcame a 10-run inning spree by JC to tie the game at 12 all. Next week saw three games played by our boys in grey. The game with LACC was lost due to the removal of Hedrick for an unneeded relief pitcher. The score: 14-11. Tech beat ELAJC for its first taste of victory. A return engagement with PJC resulted in a rout of Tech, a vastly improved JC squad romping over the bases to win 14-2.

As the season wore on, the "bad luck boys" continued their losing streak by dropping a game to a brand new team from Glendale JC, 6-3; losing another



A triple for Ahern

Baseball



Coach Hal Musselman and
Captain Milt Strauss

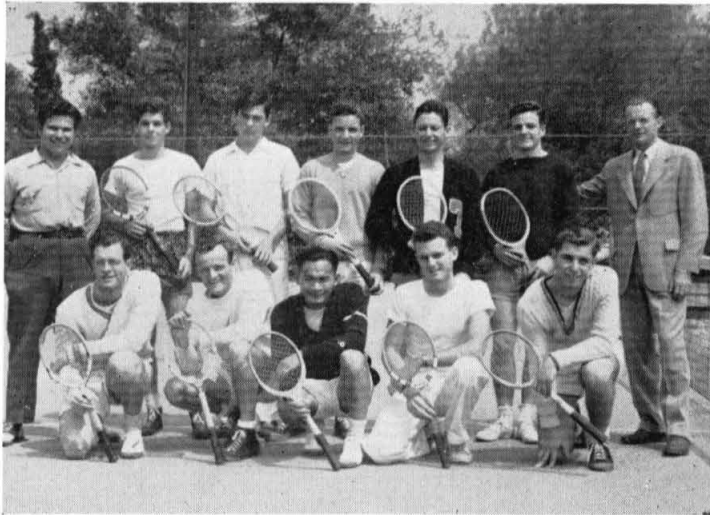
to PJC when they pummeled the Tech nine 12-1; another tilt with Glendale resulted in a 4-2 loss.

As the conference schedule opened (with two postponements), the Beavers had shown a decided improvement, but apparently not enough as Whittier ran hog wild around the bases, as our fielders watched the ball fly by, to chalk up a decided rout of Tech, 10-1. The next week, the diamond boys found the going little better as Loyola toppled Tech 7-2. The outstanding players for Tech in those games were Hedrick and Viewig, who battled in nearly all of the runs.

A game the following week with Pepperdine saw Lang Hedrick go the distance but due to several inopportune errors and some strong hitting by the Waves, Pepperdine came out on top 9-2. Merle Kam in center field made some sensational catches which robbed several Pepperdine men of good hits. MacGinitie led the Beaver offense with three singles. Still lacking a conference win, the Beavers tackled the Pomona Sagehens and in a see-saw battle came out second best by the score of 9-8. After MacDonald failed to stop the Sagehens, Hedrick took over and successfully handcuffed them as well as contributing a home run and a single to the Beaver scoring.

With four conference loses under the belt, five more games remain to be played as the Big T goes to press. Two of these are with Oxy and one each with Redlands, Whittier, and Pepperdine. While the outlook is not too good for the rest of the season, Coach Musselman is looking forward to next year as there will be only three men leaving, Ahern, MacDonald and Captain Milt Strauss. With Hedrick and Davies as the nucleus, the experience that our diamond boys have had this season should put them in fine shape for next year.

Tennis

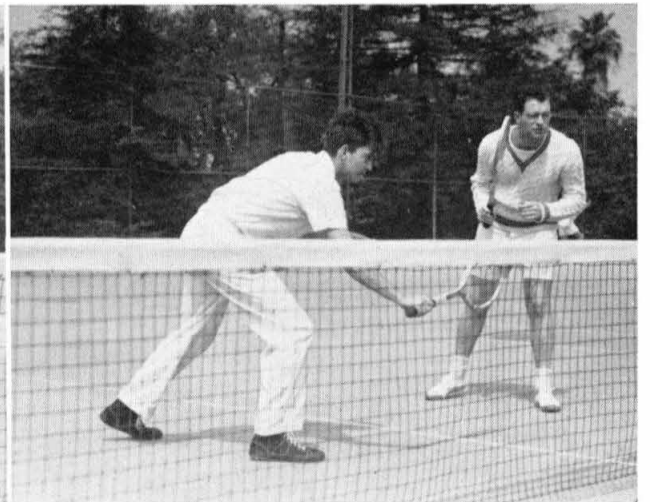
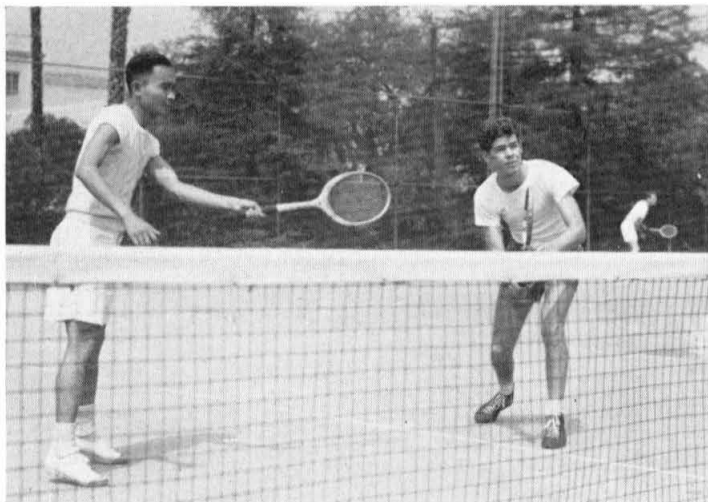


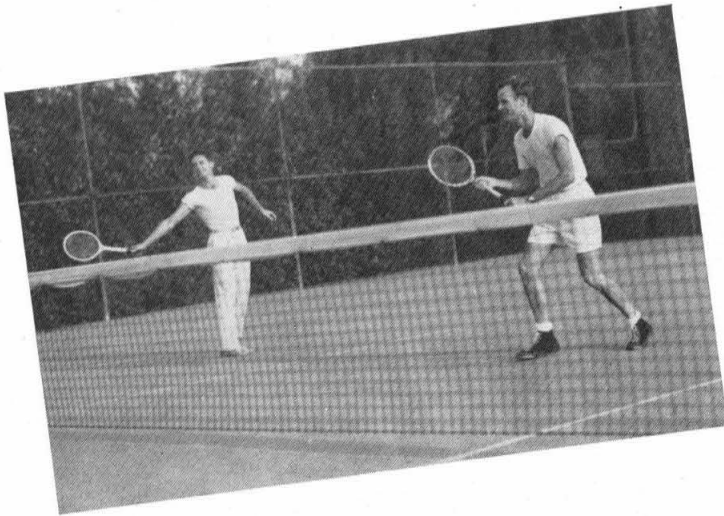
Front row: Caldwell, Suhrer (captain), Vadhanapanich, Knight, Wolf
Back row: Folmer (manager), Lewis, Rappaport, MacGregor, Hamilton, Lamson, Coach Lamb

Even with an abbreviated season of eleven matches, three of which were with USC and UCLA, the Tech netters found themselves plenty busy. Though they failed to win any of their first six matches, they gave a good account of themselves in several of them, even with top men Tom Hamilton and Bob Newbrough laid up with injuries.

After losing three successive matches to UCLA, Pepperdine, and Pomona, the "tough-luck boys" played host to an underdog, but inspired Oxy team and were beaten 6-3 in a series of close matches. Following in the footsteps of the four previous schools, USC varsity defeated the Techmen with a 9-0 shutout, leaving the Beavers the satisfaction of winning only one set. The next week Tech traveled to

Left: Vadhanapanich and Lewis. Right: Rappaport and Caldwell

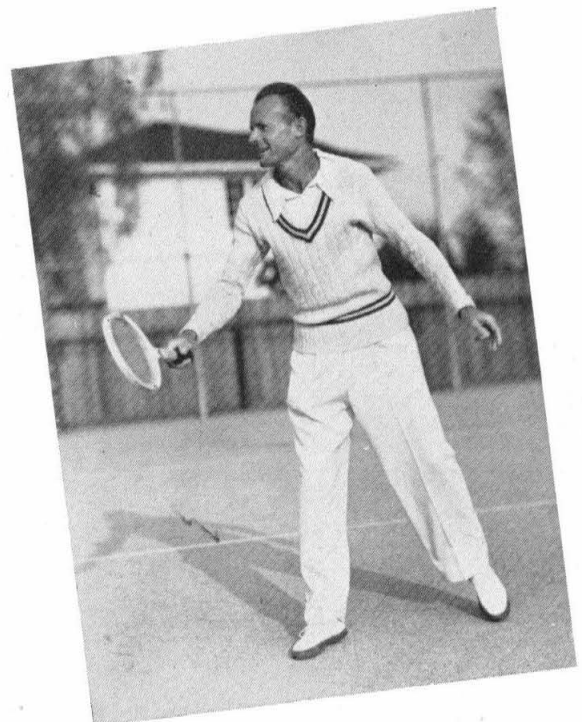




Hamilton and Suhrer

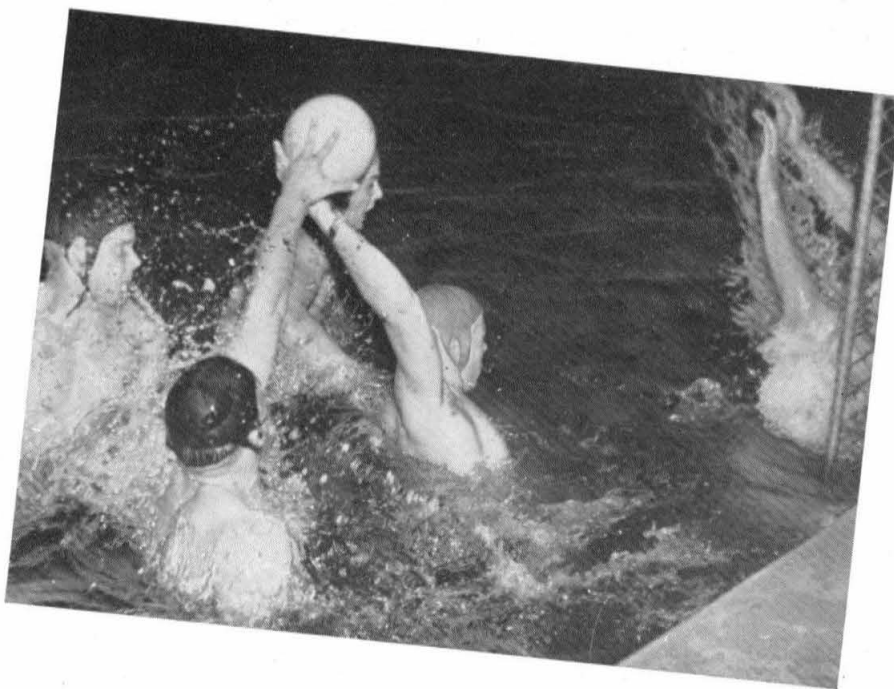
Redlands only to have Redlands trample all over them, again to the tune of 9-0. The following Saturday saw Pepperdine return to the scene of the crime and once more come away victorious, but this time they had to fight for it. After a see-saw battle, the Waves emerged with a 5-4 decision.

Our netters, guided by the very able coach, Johnny Lamb, never seemed to be able to hit their stride as a group. Notable was the trouble with the men working together as doubles. However, some very creditable work was done by Charlie Vadhanapanich, Lewis, and Captain Suhrer. Led by Suhrer, the team included Hamilton, Vadhanapanich, Wolf, Lewis, Rappaport, Lamson, MacGregor, Knight, Newbrough, and Caldwell.



Coach Lamb

Tech fights for a goal
against SC



With only Bill Libbey left from the 1944 squad, Coach Bob Merrick, '42, quickly assembled a starting lineup for his water polo squad consisting of Frank Lamson-Scribner and Ronald Burford at forwards, Clifford Hughes sprint, Herb Davis center back, Libbey and Bob Walquist backs, and Bob Grube goalie. All of these men except Walquist were Navy trainees. Hughes, with his speed and accurate goal shooting, soon established himself as the outstanding man in the league.

After winning the first four matches, a flu epidemic hit a number of the first string men and attributed for the two defeats in the final two games. In the opening game, Tech splashers coasted to an easy 10-7 victory over Inglewood High. In consecutive weeks, Tech trounced UCLA in two games 10-7 and 9-5, and nosed out USC 12-11 in a torrid contest. Hughes and Burford were high scorers in all of these contests.

A scrappy Whittier High squad handed the Beavers their first defeat by an 8-7 score, while USC handed the flu-ridden Engineer squad a 13-1 pasting in the final game.



Water Polo

The record of the swimming team this semester is anything but inspiring. It is not, however, a measure of the spirit and work involved. Considering that there was only one returning letterman, the original outlook was poor. The few men of the team worked hard under Bob Merrick, their coach, to overcome their lack of experience. Nevertheless, the greater experience of the competing teams was more than effort alone could master.

During the season, Murphy became the outstanding man on the squad through his efforts in the 220 and 440. Very appropriately, he was elected captain at the end of the season. Davis, the one returning letterman, was also recognized for his winning times in the 50 and 100. Sturtevant distinguished himself by swimming in almost every event at some time during the season and placing in each.

The conference meet was a serious disappointment. When it was time for the meet to begin, three men were laid up. Had it not been for this, the short end of a 76-63 score might have been different.

With all of the squad except Davis returning next year, the prospects of an improved team are extremely hopeful. With more hard work and a few experienced men, the record next season should be as inspiring as this one was not.



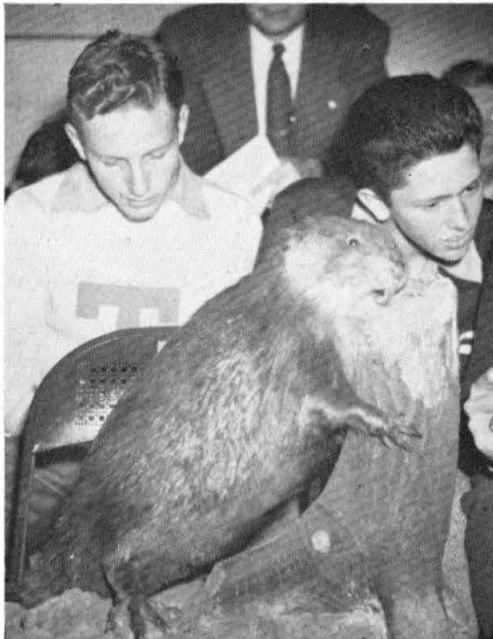
Coach Bob Merrick



Left to right: Sturtevant, Waters, Smyth, Vremsak, Grube, Schaafsma, Davis, Smith (kneeling), Jahrde, Coach Merrick, Jones, Murphy

Swimming

Larry Brundred, Rex Stewart, and Rob Roy McDonald seem to be a bit puzzled over some problem. Which one shall we call up tonight?



The Noble Beaver at a game.

Eugene Shoemaker crowns the winning beauty at the Frosh-Soph Christmas Dance—Lovely Harry Lass receives his crown of thorns.





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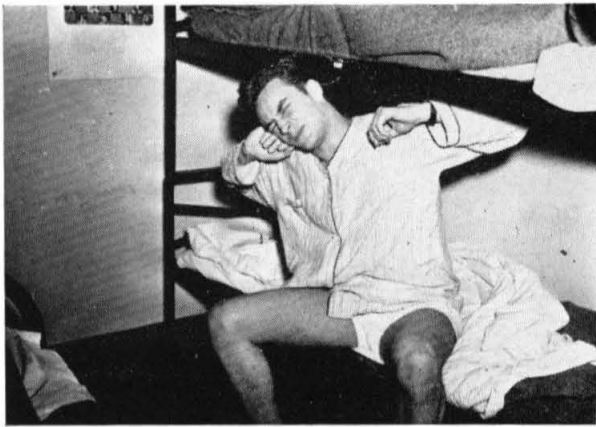
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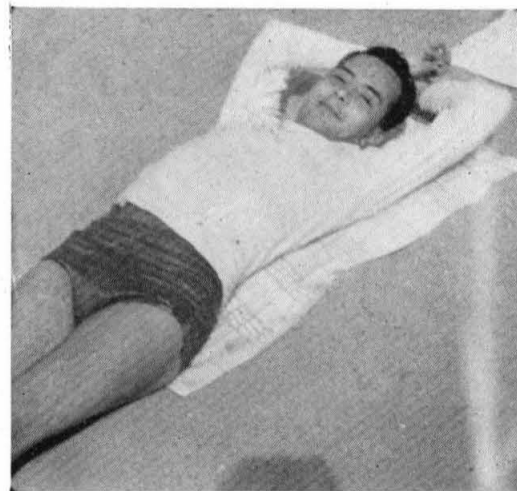
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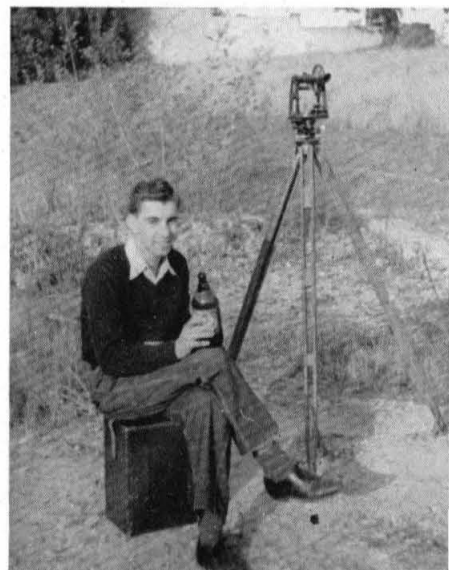
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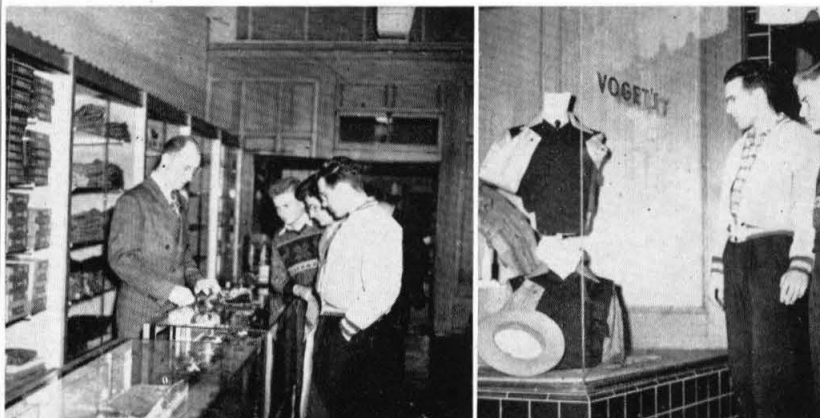
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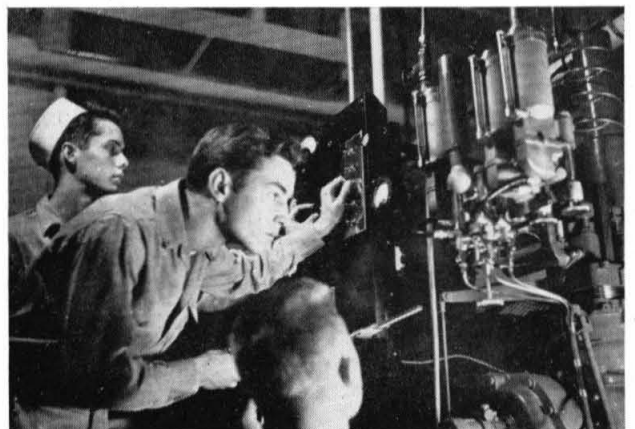
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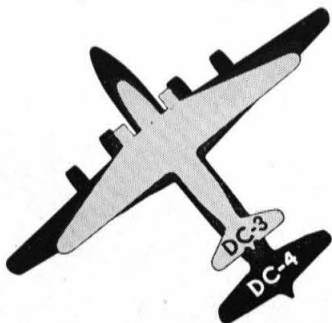
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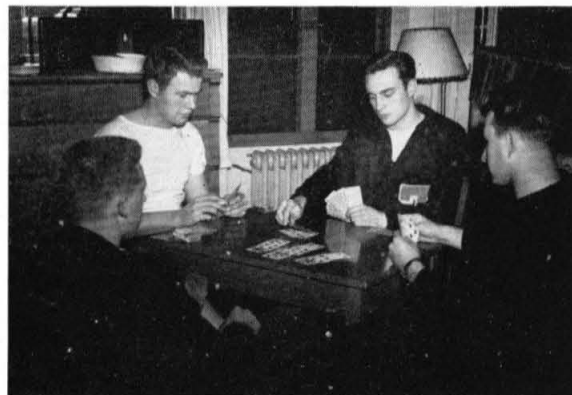
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