

POLY
TECH





Donald May



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Y

*We, the Members of the January 1937 gradu-
ating class, dedicate this book to those
members of the faculty who labored with us
faithfully through long years, until Father
Time took them into well-deserved retirement.
May they be happy in their new life.*

*Designed and Printed By Students
in the
Benson Print Shop*



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*The January 1937
Poly Tech*

*Published by the
Graduating Class
Benson Polytechnic School
Portland, Oregon*

*Featuring
Officers, Members
and
Their Activities*

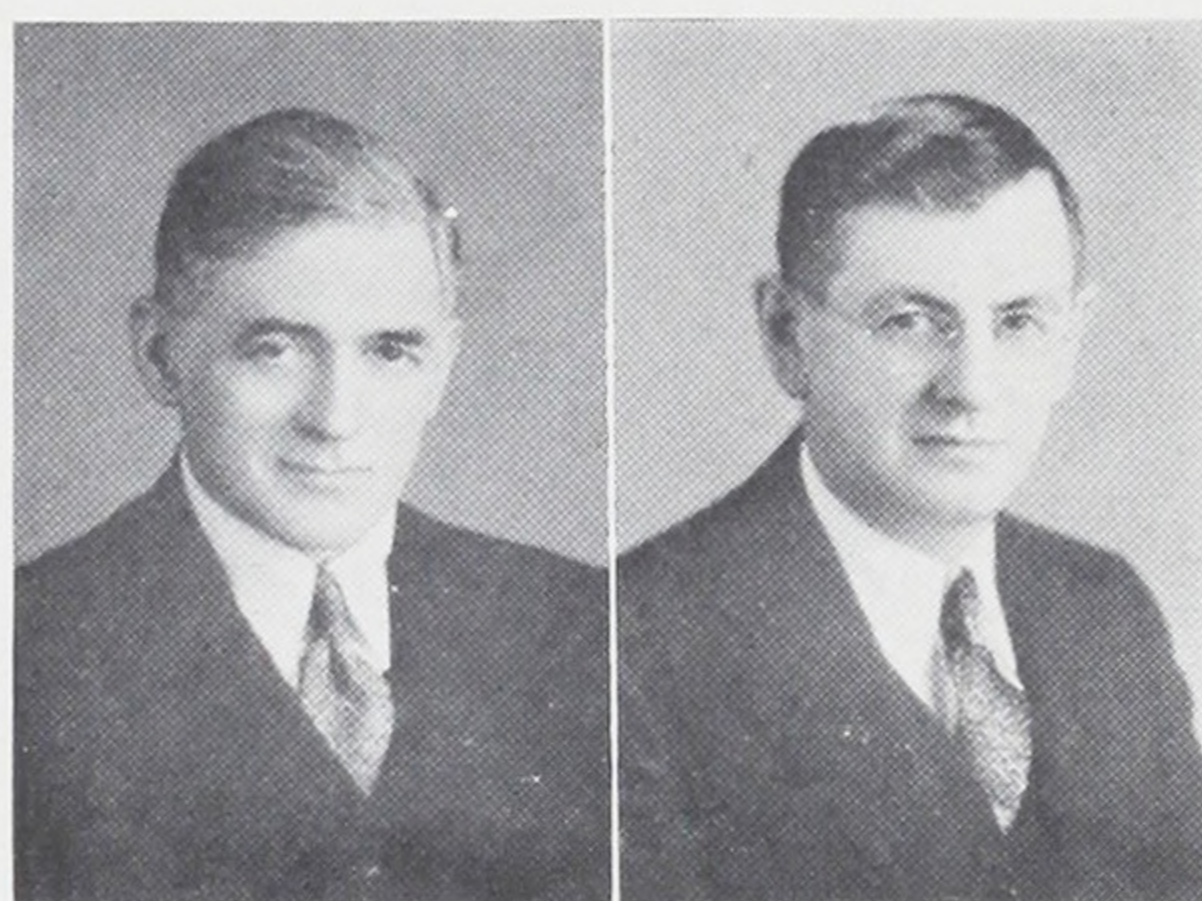
*Organizations and Clubs
of the
Student Body*

*Athletics
Snapshots
Humor
Advertising*





CHAS. E. CLEVELAND
Principal



JAS. G. TONTZ
Vice-Principal

OMAR N. BITTNER
Dean of Men

Omar N. Bittner





ACADEMIC INSTRUCTORS

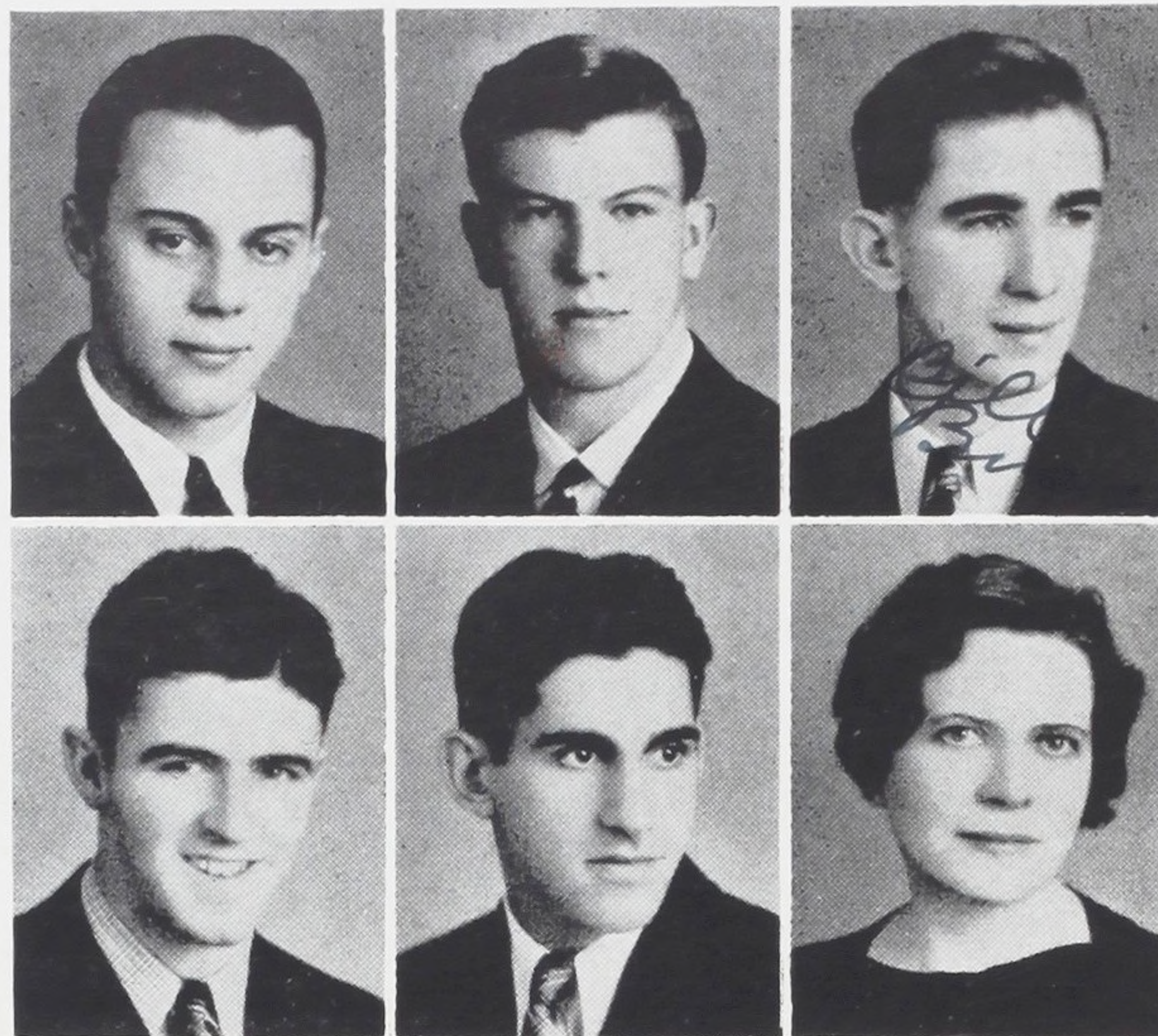
First Row: Mrs. Carruth, Mr. Skei, Miss Hawkyard, Miss Morrison, Miss Forbes, Mrs. Brugger, Miss Drummond, Mrs. Ermler
 Second Row: Mr. Hargreaves, Mrs. Thompson, Miss Morton, Miss Clouse, Miss Ambler, Mrs. Katzki, Miss Haight, Mrs. Holt
 Third Row: Miss Harris, Mrs. McLean, Mr. Graham, Mrs. Finnegan, Mr. Thacker, Mr. Gibson, Mr. Marineau, Mr. Kletzer
 Fourth Row: Mr. Brainerd, Miss Johnson, Mr. Storli, Mr. Bajema, Mr. Tontz, Mr. Shotwell, Mr. Lawrence, Mr. Krieger, Mr. Hamill, Mr. Turner, Mr. Parsons
 Fifth Row: Mr. Wade, Miss Craig, Mr. Oldright, Mr. Brown, Mr. Schreiber, Mr. Rickard, Mr. Bittner, Mr. Karnopp



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 Second Row: Matheson, Dunkin, Strickland, Drynan, Holden, Goehler, Raisig, Bidwell, Lee, Badley, Laney
 Third Row: Ruhl, Allingham, Hadley, Miller, Andyke, Holmquist, Benson, Buckman, Sieforth, Messing
 Fourth Row: Willis, Beebe, Klink, Harrison, Allison, Freitag, Ehlen, Widmer, Henderson, Badley, Cross





ROBERT NIELSEN
DARREL JONES

WILLIAM BUSCHMAN
MISS HAWKYARD



ROBERT MCKOWN
LOUIS KAIEL
MR. ALLISON

CLASS OFFICERS

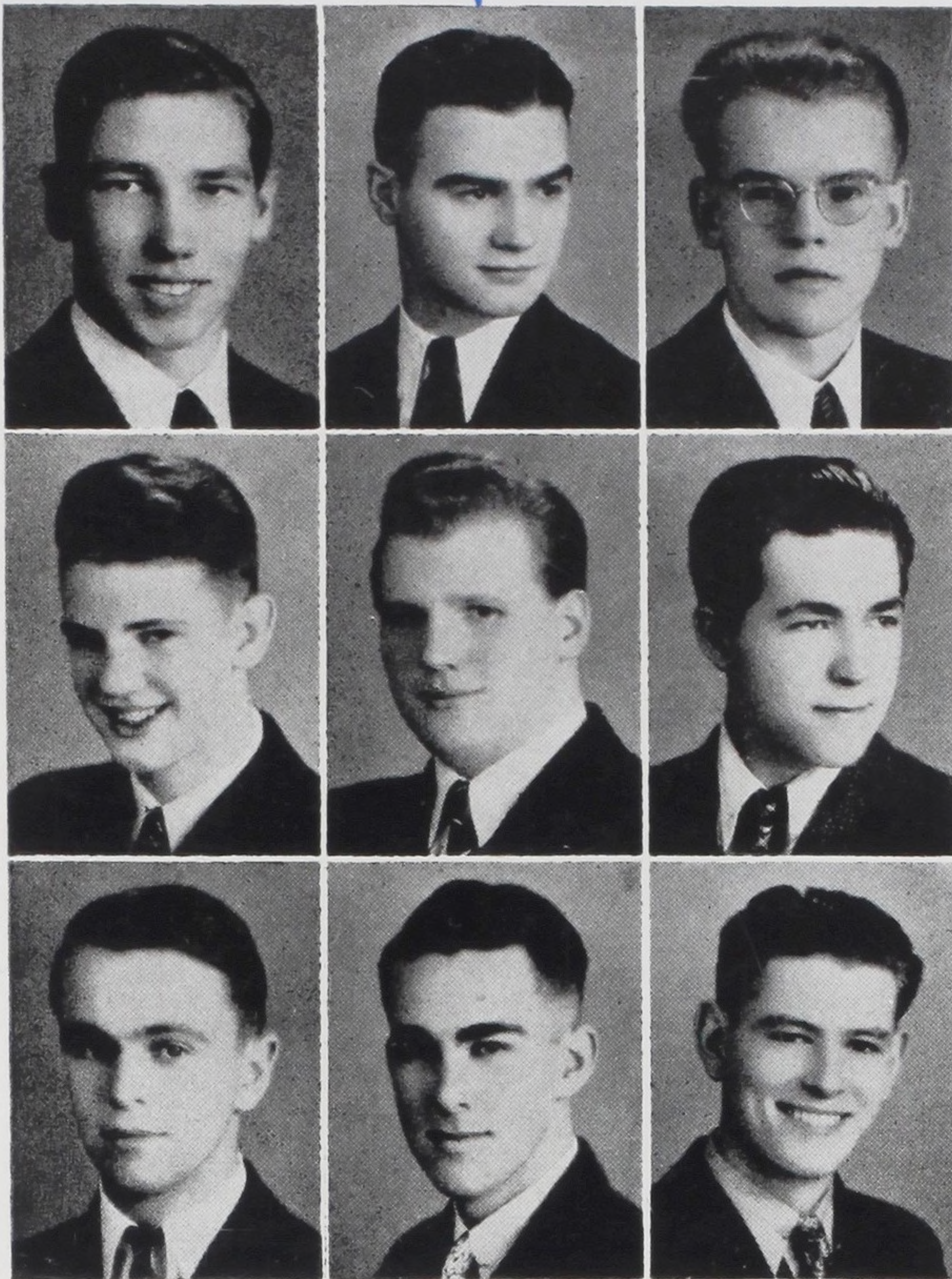
ROBERT NIELSEN	.	.	.	President
ROBERT MCKOWN	.	.	.	Vice-President
WILLIAM BUSCHMAN	.	.	.	Secretary
DARREL JONES	.	.	.	Treasurer
LOUIS KAIEL	.	.	.	Sergeant-at-Arms
MISS HAWKYARD	.	.	.	Adviser
MR. ALLISON	.	.	.	Adviser



Warren Stearns

Ted Wojcik

Lester Roys



WARREN STEARNS
LESTER ROYS
JAMES BRODIGAN

TED WOJCIK
ELMER BURT
DOUGLAS DRYNAN

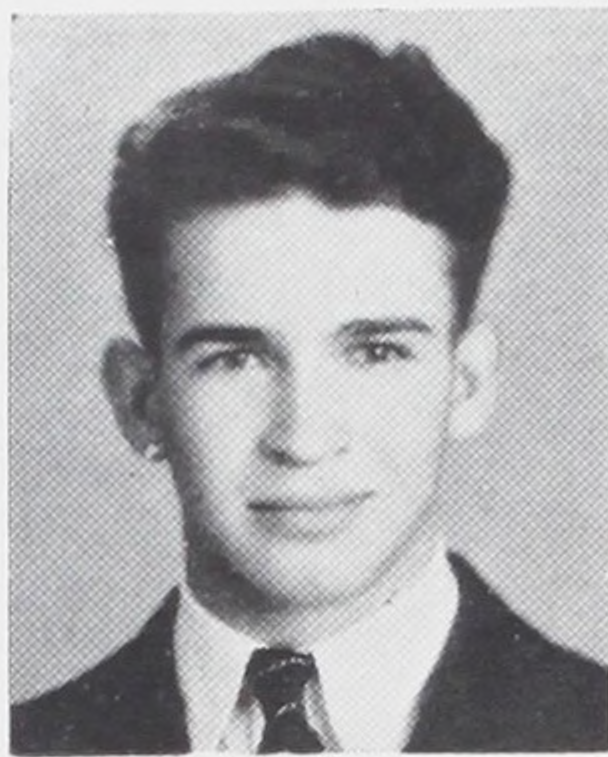
THOR HOGLUND
WILLIS PIERCE
GORDON BROWN

POLY TECH STAFF

WARREN STEARNS	.	.	.	Editor
TED WOJCIK	.	.	.	Mechanical Editor
THOR HOGLUND	.	.	.	Assistant Editor
LESTER ROYS	.	.	.	Sports Editor
WILLIS PIERCE	.	.	.	Club Editor
ELMER BURT	.	.	.	Photo Editor
JAMES BRODIGAN	.	.	.	Staff Artist
DOUGLAS DRYNAN	.	.	.	Humor Editor
GORDON BROWN	.	.	.	Business Manager



ALSIEBLEN, FRANK THEODORE
*Technical Building
Construction*



ARNOLD, CHARLES ALFRED
*Vocational Machine
Auditorium Staff.*



AMOTH, VICTOR WILFRED
Technical Electric

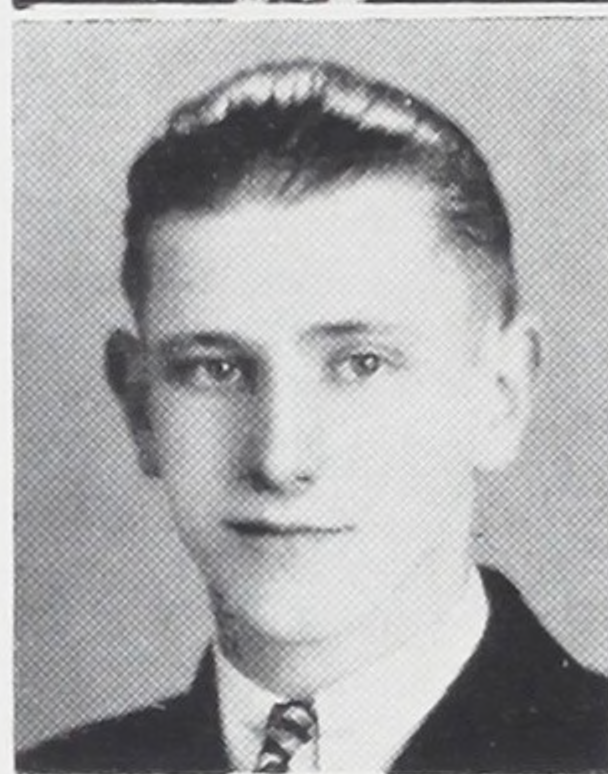
Victor Amoth



BACKSTROM, VICTOR R.
Technical Electric



AMREIN, ROBERT JACK
*Vocational Machine
Band, Machinists.*



BAIN, ALEXANDER
Vocational Electric



ARATA, EDDIE DARRELD
*Vocational Carpentry
First Aid, Orange B, Aqua-
tic, Basketball, Baseball.*

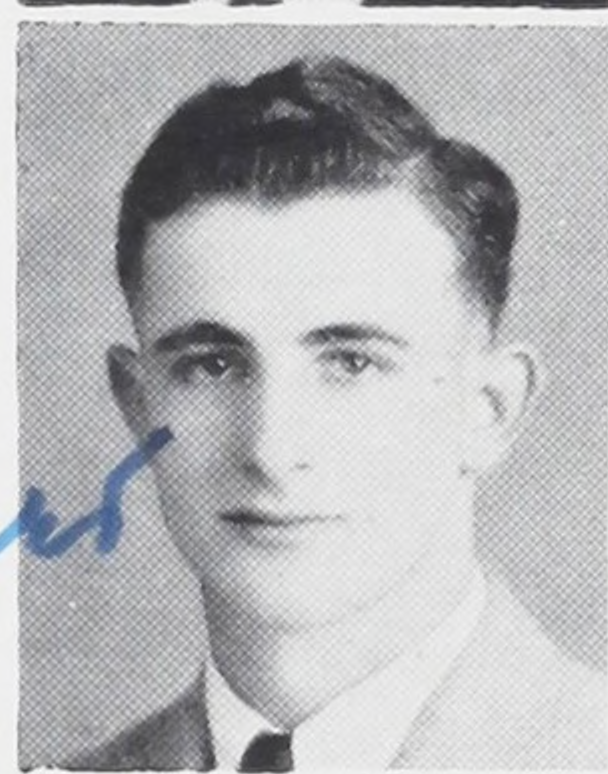


BAKER, PATRICK H.
*Vocational Gas Engine
B.A.E.*



ARDUESER, JOHN LAURENCE
*Vocational Press
Minutemen, Gym Leaders.*

*John
Arduesser*



BALLER, ELDON JOE
Vocational Press

*Eldon
Baller*

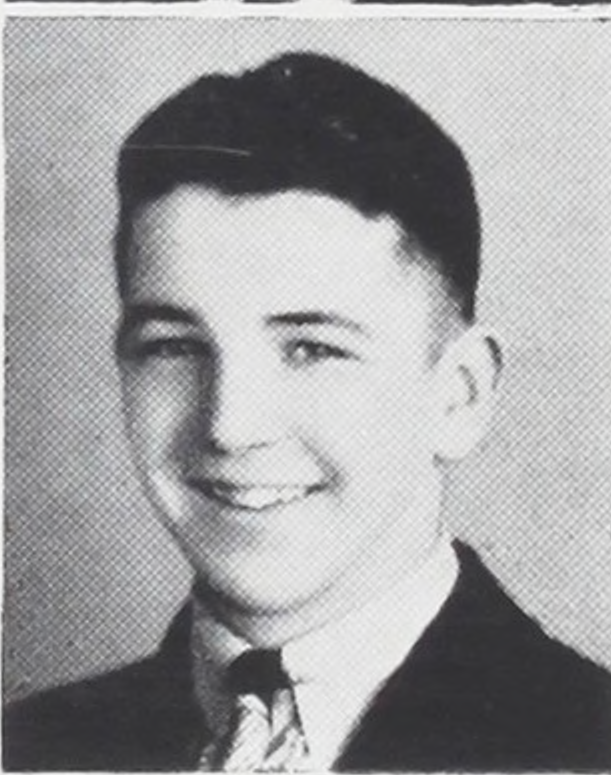


AREHART, MARK
*Technical Electric
First Aid, Minutemen, We
Drivers, Orange B, Hi-Y,
Gym Leaders, Treasurer
Oyer-un-Gon, Captain Fire
Squad, Football.*

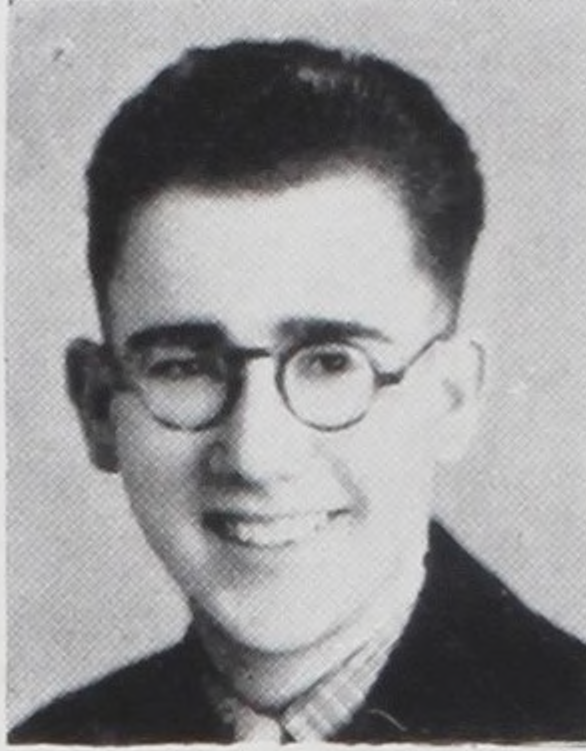
*Mark
Arehart*



BEATTY, ROBERT WAYNE
*Vocational Printing
Executive Board, Minute-
men, Tech Pep Staff, First
Aid, Vice-president Type-
Hi, Aquatic.*



BELL, JAMES WILSON
Technical Electric
 Executive Board, Library
 Council, Band, Astronomy,
 Minutemen, Cashier, Gym
 Leaders, Dramatic, Secre-
 tary Student Body.



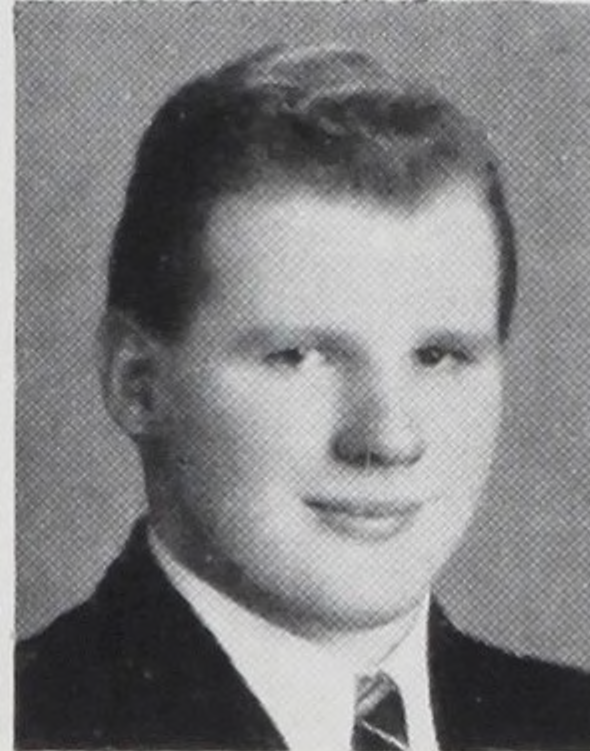
BROWN, GORDON E.
Technical Aviation
 Business Manager Poly
 Tech, Treasurer, President
 Public Speaking, Bronze,
 Silver Scholarship Pins,
 First Aid, Secretary Oyer-
 un-Gon.

BERG, CHARLES J.
Vocational Machine



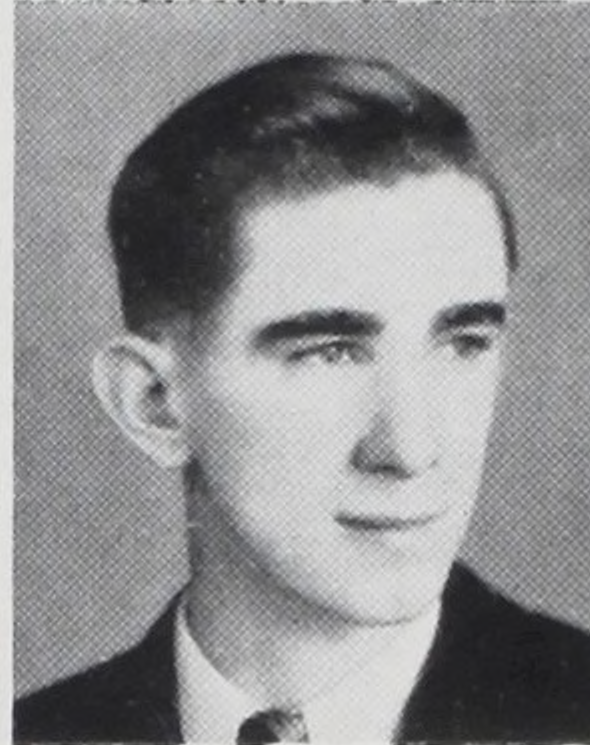
BUDD, DONALD R.
Vocational Electric

BLIVEN, WILLARD D.
Vocational Electric
 Auditorium Staff, Class
 Play Electrician.



BURT, ELMER ROY
Technical Aviation
 Photo Editor Poly Tech,
 First Aid, Secretary Py-
 thagoras, Bronze Scholar-
 ship Pin.

BOOTHBY, IVAN SAMUEL
Vocational Cabinet Making
 First Aid, Wrestling.



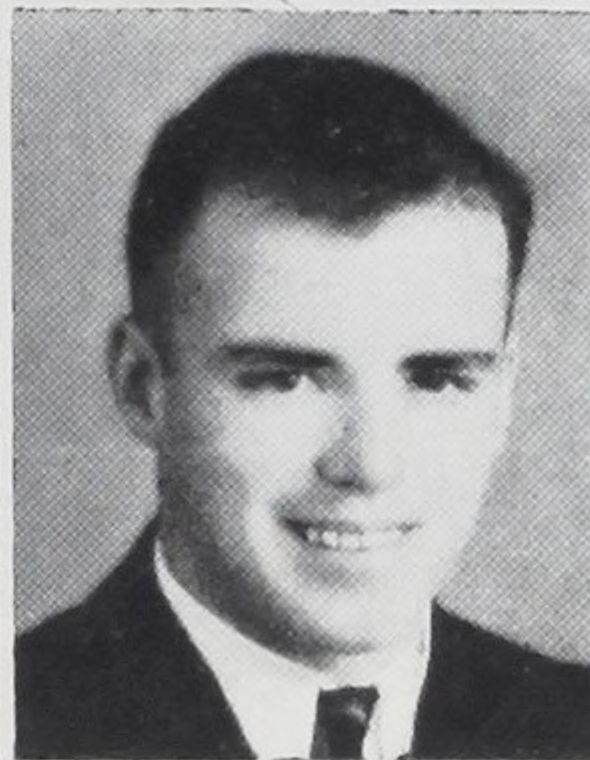
BUSCHMAN, WILLIAM OWEN
Technical Electric
 Executive Board, Minute-
 men, President, Treasurer
 Astronomy, Bronze, Silver,
 Gold Scholarship Pins,
 Manager Track.

BRIDGEFORD, GLENDON ROY
Technical Electric
 Bronze Scholarship Pin,
 Treasurer Electric, Vice-
 president Oyer-un-Gon.



CARLSON, JAMES R.
Vocational Carpentry
 Sailing Club.

BRODIGAN, JAMES THOMAS
Technical Aviation
 Poly Tech Artist, Track.

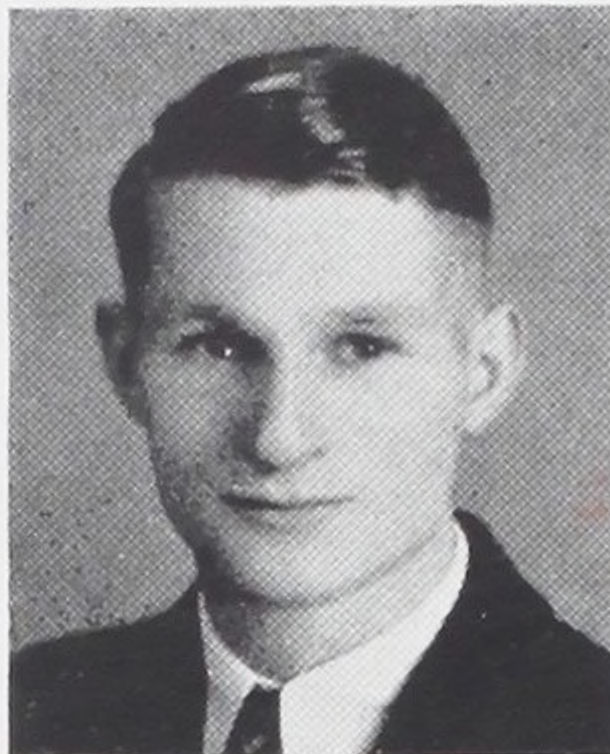


CARLTON, CARL EUGENE
Vocational Electric

Bus Carlton



CHAMBERLIN, ROBERT HENRY
Vocational Gas Engine
First Aid.



Walter Dietrichs

DIETRICHS, WALTER
Technical Gas Engine



CLADEK, RAY EARL
Technical Aviation



DOWNEY, JOHN LAUGHLIN
Technical Gas Engine



COBB, FRANCIS L.
Technical Electric

F. Cobb



Bob Drake

DRAKE, ROBERT E.
Technical Electric
Class Play.

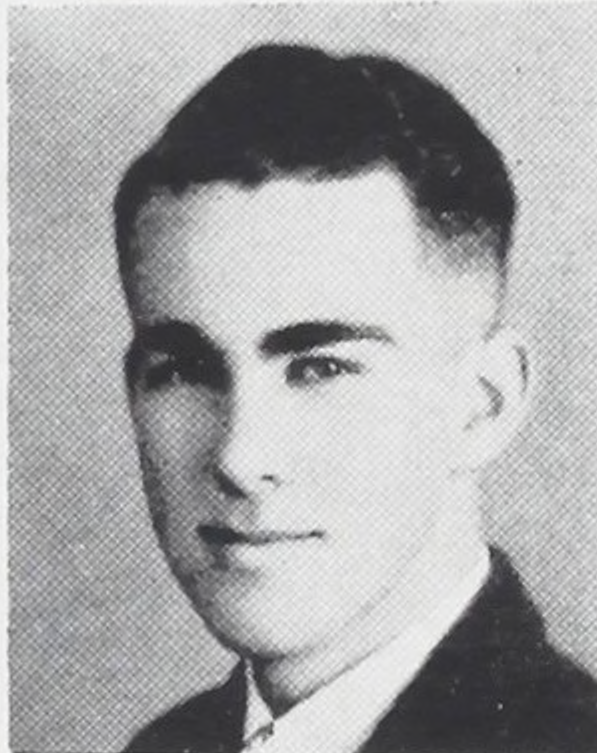


"Swede" Curran

CURRAN, FRANCIS MICHAEL
Vocational Press
Type-Hi, Camera.



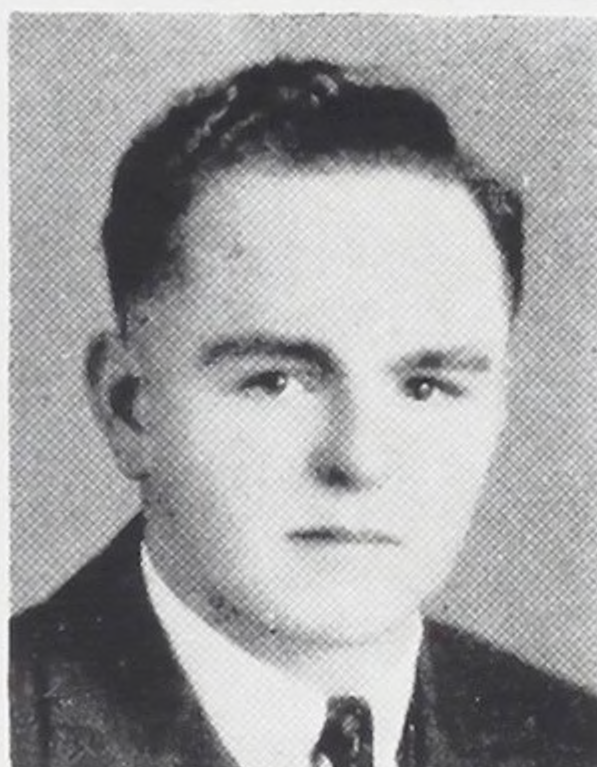
DRYNAN, DOUGLAS H.
Technical Aviation
Executive Board, Humor
Editor Poly Tech, Audi-
torium Staff, Captain, Bat-
talion Chief Fire Squad,
Secretary Aviation, Sec-
retary, Treasurer Orange
B, Soccer.



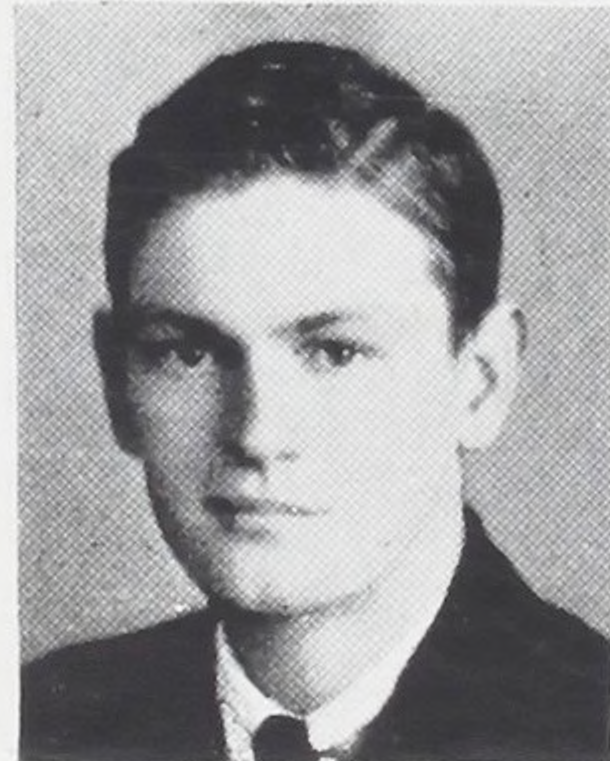
DANIELS, ARNOLD ALLEN
Technical Gas Engine
Candy Stand, B.A.E.



EGGIMAN, NORMAN HARVEY
Vocational Cabinet-Making
Secretary O y e r-u n-G o n,
Troubadours.



DELONG, NEIL EDWARD
Vocational Gas Engine
B.A.E.



Leonard Ek

EK, LEONARD A.
Vocational Gas Engine
First Aid, B.A.E.



ELLINGSON, LAVERNE E.
Vocational Printing
Minutemen, Type-Hi.



Ed Grassley

GRASSLEY, EDWARD
Technical Electric
Chief, Assistant Chief Fire
Squad, President, Treasur-
er Library Council, Presi-
dent, Vice-president, Ser-
geant-at-arms Hi-Y, Min-
utemen, Bronze, Silver
Scholarship Pins, Vice-
President Orange B, Soc-
cer, Vice-President Stu-
dent Body, Football, Base-
ball.

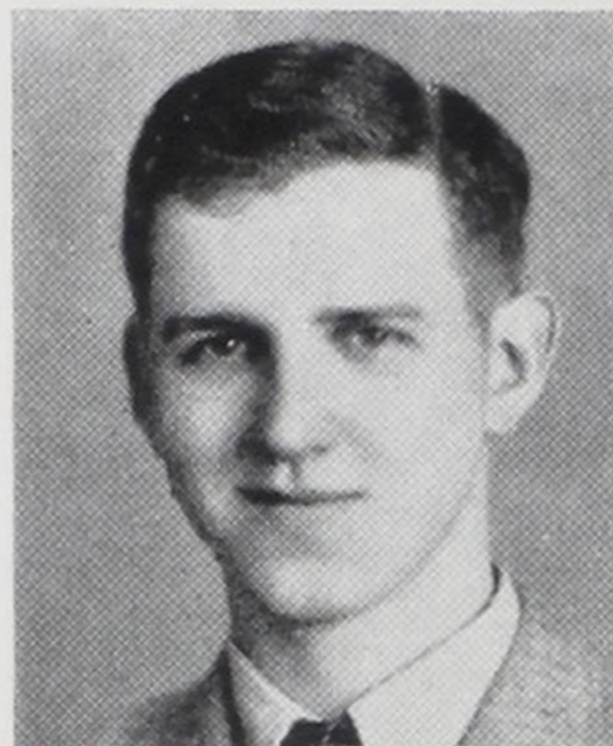
ESTES, EDMON HARLIN
Vocational Machine
Science, Toolmakers, Ma-
chinist.



GRATIOT, HARVEY HENRY
Technical Aviation

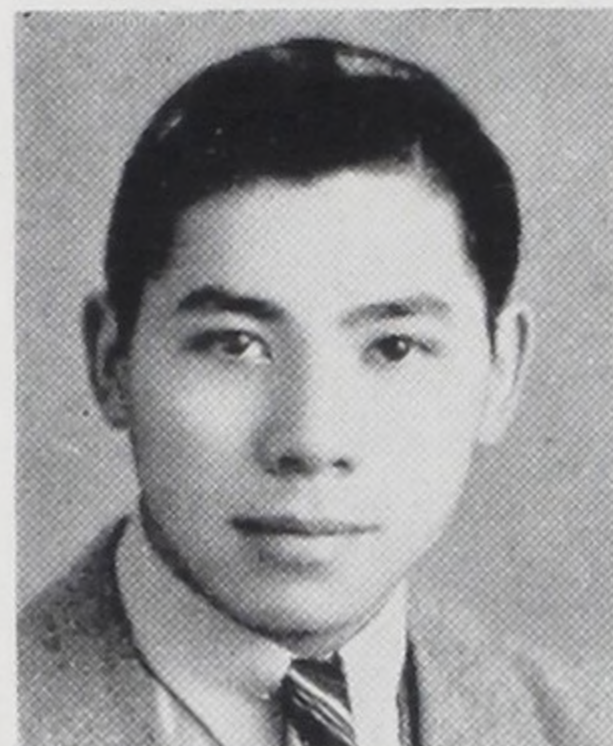
Harvey Gratiot

FREEMAN, WALTER
Vocational Machine



GRAY, JOHN DUNCAN
Vocational Electric
Auditorium Staff, Class
Play Electrician.

FONG, DANIEL KING
Technical Gas Engine
Bronze, Silver, Gold, Spe-
cial Gold Scholarship Pins.



GREEN, WALTER ALBERT
Technical Gas Engine
Minutemen, Camera.

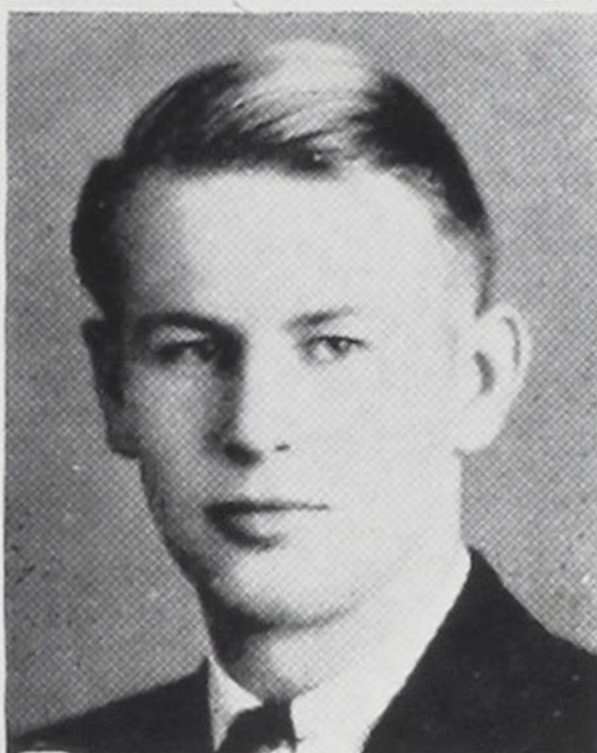
Walter A. Green

GLENN, KEITH CARMAN
Vocational Gas Engine
Gym Leaders.



GREGG, CARL R.
Technical Gas Engine
Executive Board, Basket-
ball.

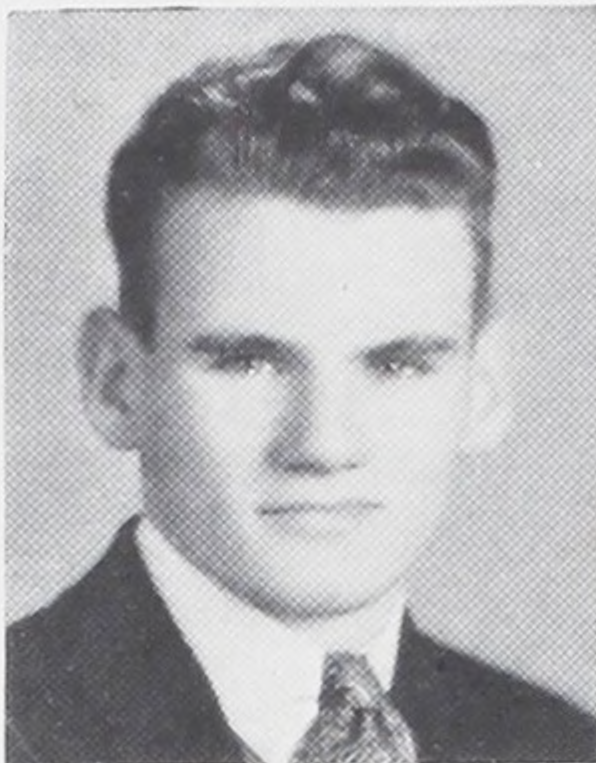
GOLDSMITH, GERSON F.
Technical Aviation
First Aid, Secretary Stu-
dent Body, Library Coun-
cil, Minutemen, Orange B,
Bronze, Silver, Gold, Spe-
cial Gold Scholarship Pins,
Secretary, Vice-President
Public Speaking, Secreta-
ry Hi-Y, Football Mana-
ger.



GRIMM, JEROLD CARL
Technical Gas Engine
Orange B, Manager Foot-
ball.



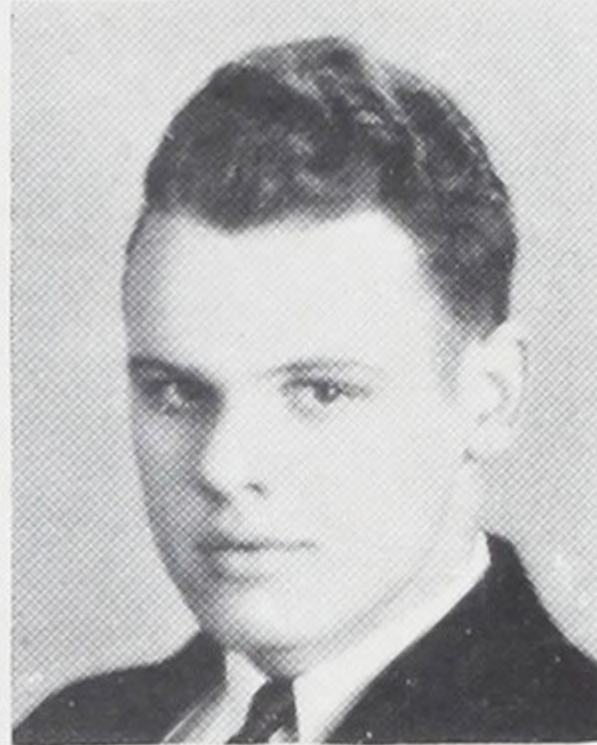
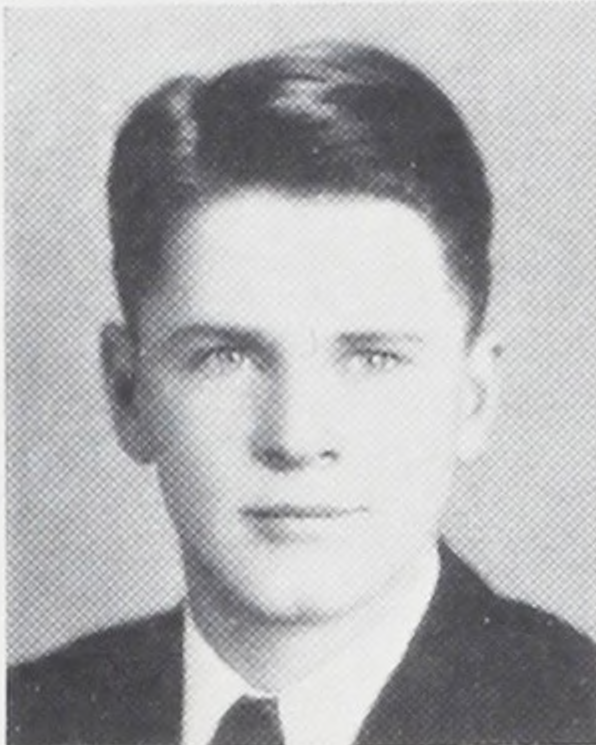
GULLIXSON, DONALD R.
Vocational Cabinet-Making
First Aid.



John P. Haynes

HAYNES, JOHN P.
Technical Aviation
First Aid, Minutemen, Sec-
retary Aviation, Orchestra,
Bronze Scholarship Pin,
Chess.

HALE, WILLIAM C.
Technical Printing
Tech Pep, Type-Hi.

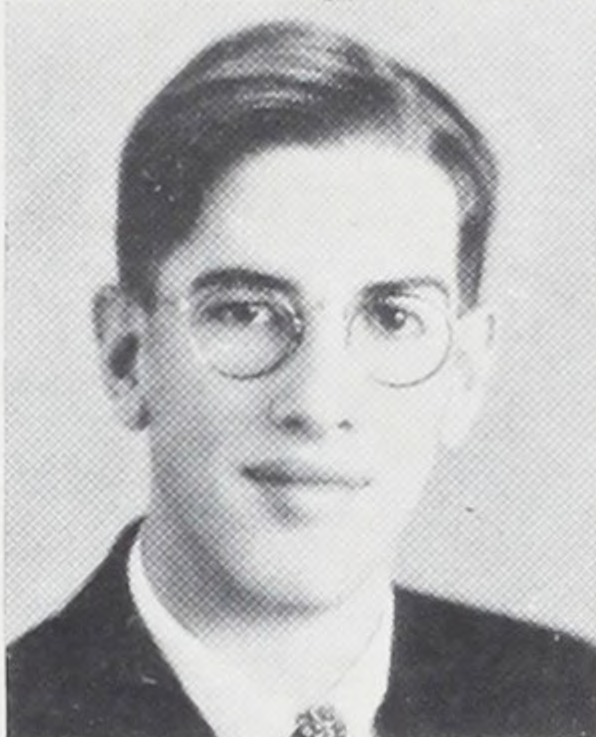


HELZER, LEROY H.
Vocational Gas Engine
B.A.E.

LeRoy Helzer

HALL, NORMAN ELMON
Technical Electric
President, Dark Room In-
spector Camera, Business
Manager Class Play.

Norman E. Hall



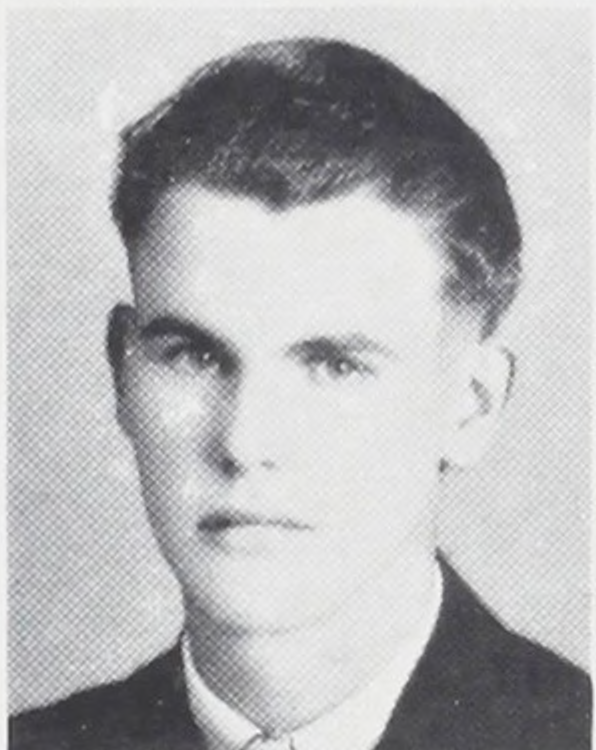
HENNIG, JAMES ARTHUR
Vocational Machine

HANSEN, ROBERT ALLEN
Technical Electric
Sergeant-at-arms Electric.



HESS, CHARLES VERNON
Vocational Gas Engine

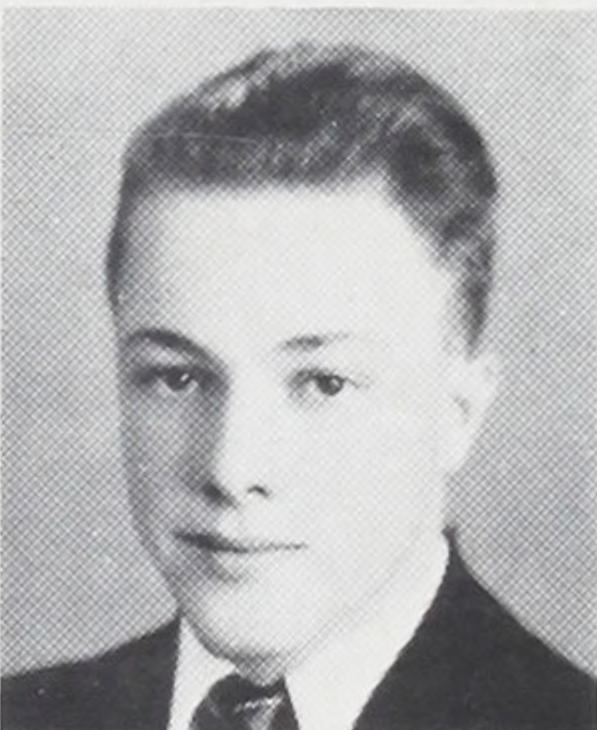
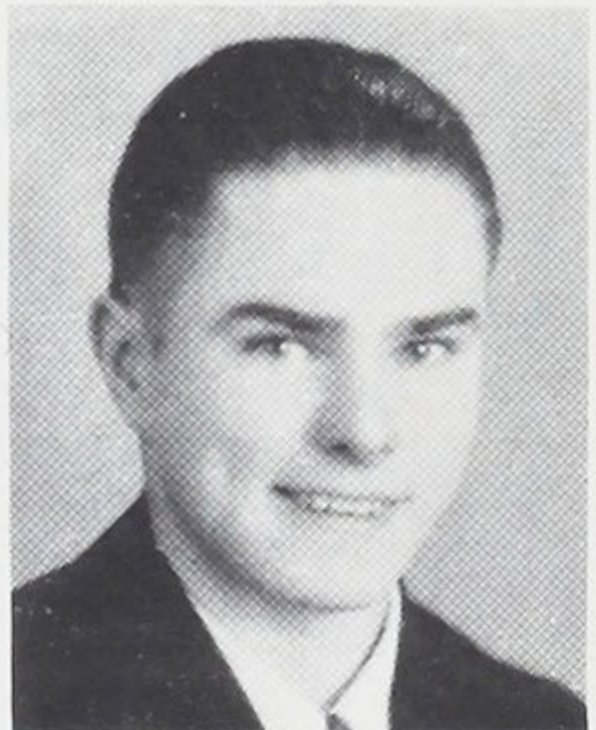
HANSON, CLIFFORD JACK
Technical Gas Engine



HIPPERSON, ROBERT D.
Vocational Electric
Radio.

Bob Hipperson

HAY, PAUL
Technical Electric
Minutemen, We Drivers,
Class Play, Oyer-un-Gon,
Vice-president Camera.



HOAGLUND, VICTOR PETER
Technical Gas Engine
Bronze Scholarship Pin.

Victor Hoaglund



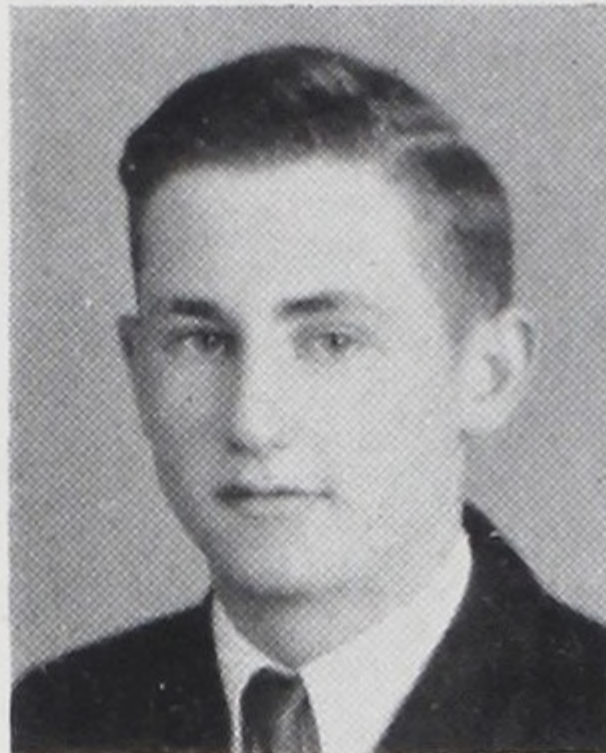
Rob Hodencamp

HODENCAMP, ROBERT CLINTON
Vocational Electric



HUNTER, CLIFTON KEITH
Vocational Gas Engine
Secretary, Treasurer, Sergeant-at-arms, President
B.A.E.

HOFFMAN, ROBERT A.
Technical Electric
Camera.



IRWIN, WALLACE ADRAIN
Vocational Printing
Executive Board, Type-Hi, Tech Pep Staff, Auditorium, Troubadours, Track.

Thor Hoglund

HOGLUND, THOR F.
Technical Electric
Bronze, Silver, Gold, Special Gold Scholarship Pins, Electric, Assistant Editor Poly Tech, Minutemen, Orchestra.



ISAACSON, ROY F.
Technical Electric
Football, Track, Minutemen, Orange B,

HOLM, JOHN VIRGIL
Vocational Electric

Vic Holm



ISBERG, LEONARD
Technical Aviation
Captain Fire Squad, Library Council, Secretary, Vice-president Hi-Y, President, Sergeant-at-arms Orange B, Bronze, Silver Scholarship Pins, Soccer, Football, Baseball.

HOLM, VICTOR E.
Technical Electric
Minutemen, Electric, Orchestra.



JOHN, ROBERT PAUL
Technical Gas Engine
Camera, Radio, Astronomy.

HUGGETT, MARION CHARLES
Technical Aviation
Cafeteria Board, Bronze Scholarship Pin.



JOHNSON, MILTON N.
Vocational Plumbing



JOHNSON, STANLEY E.
Vocational Electric

Stanley Johnson



KRUGER, CLARENCE REINHOLD
Technical Printing
Executive Board, Orange
B, First Aid, Soccer.

JOHNSON, WILLIAM
Vocational Gas Engine
Gym Leaders, B.A.E.

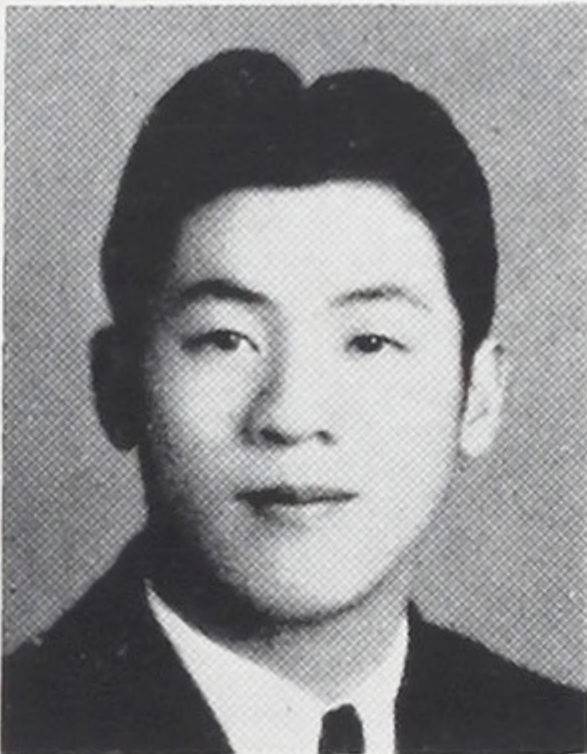
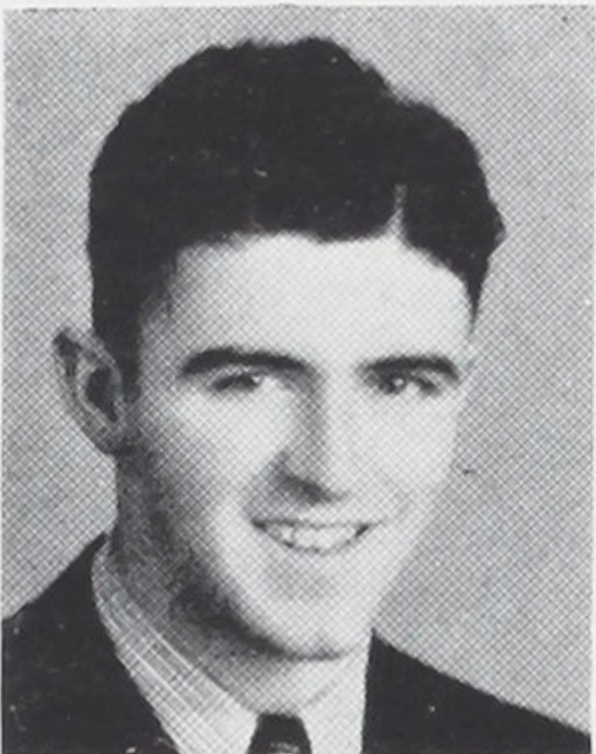
William Johnson



LANDIS, DUANE ROLAND
Technical Mechanical
Secretary, Vice-president
Kumpus.

JONES, DARRELL T.
Vocational Printing
Executive Board, Battalion
Chief Fire Squad, Secre-
tary, Vice-president Min-
utemen, Head Usher Au-
ditorium, Science, Type-Hi,
News, Sports Editor Tech
Pep, Cafeteria Board, Ra-
dio Station KBPS, Secre-
tary, Treasurer Gym Lead-
ers, Manager Football,
Track.

Darrell Jones



LANG, PETER B.
Technical Electric
Executive Board, Auditor-
ium, Gym Leader.

Peter Lang

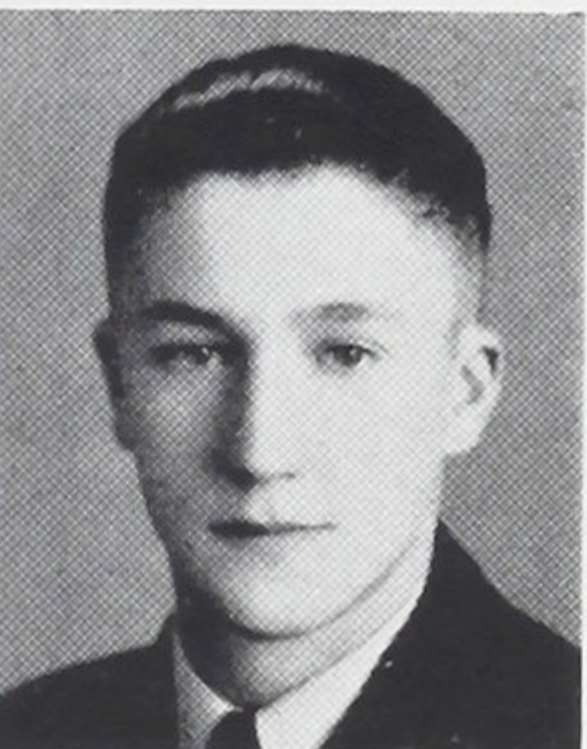
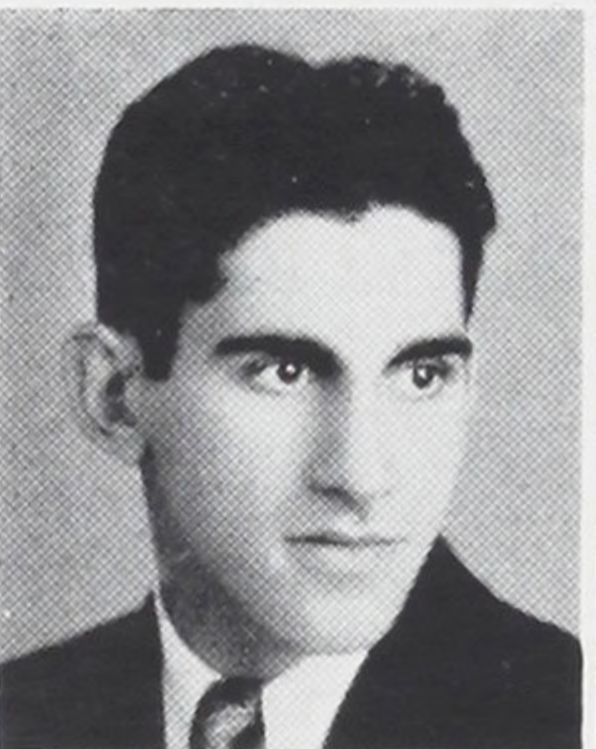
JUNKIN, MAURICE D.
Vocational Electric
Executive Board, Radio,
First Aid.

Maurice Junkin



LESOWSKI, JOSEPH FRANK
Technical Building
Construction
Sergeant-at-arms Architec-
tural.

KAIEL, LOUIS
Technical Printing
Executive Board, Orange
B, Hi-Y, Fire Squad, Foot-
ball.

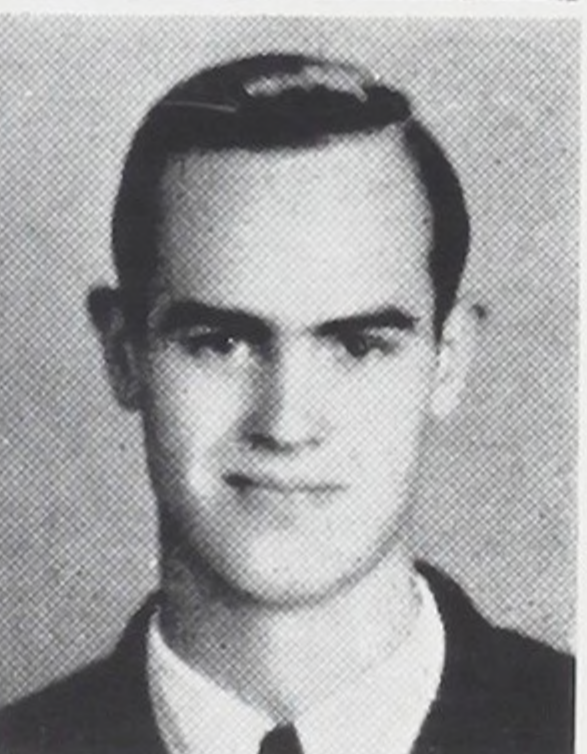


LIBKE, VIRGIL EUGENE
Technical Gas Engine
We Drivers, Bronze Schol-
arship Pin, Baseball, Or-
ange B.

Virgil Libke

KOLIBABA, CHARLES RICHARD
Technical Electric

Kolibaba Charles



LINDE, WILLARD
Technical Building
Construction
Chess, Machinist.



Willard Linn

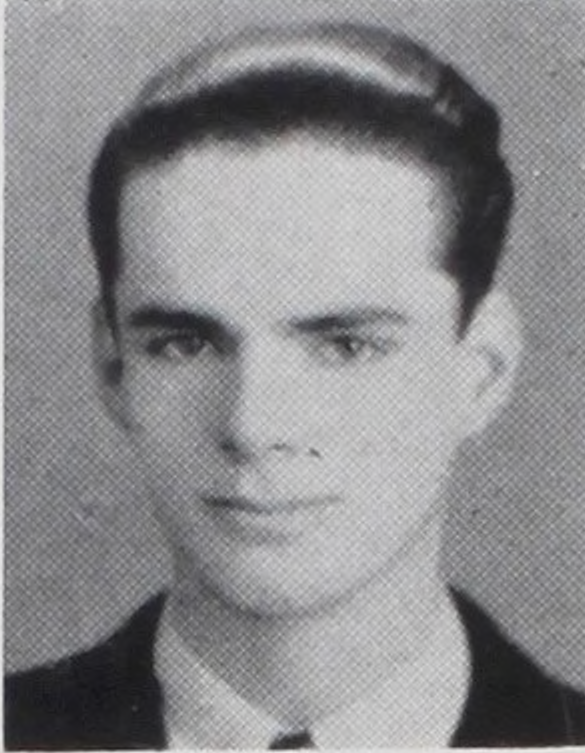
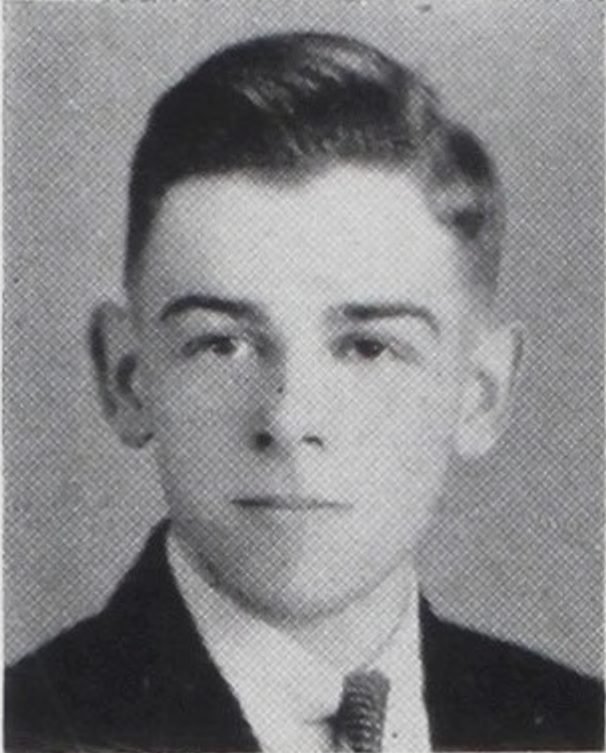
LINN, WILLARD EVERT
Technical Gas Engine
Executive Board.



Billie McIntyre
MCINTYRE, BILLIE T.
Vocational Electric
First Aid, Minutemen.

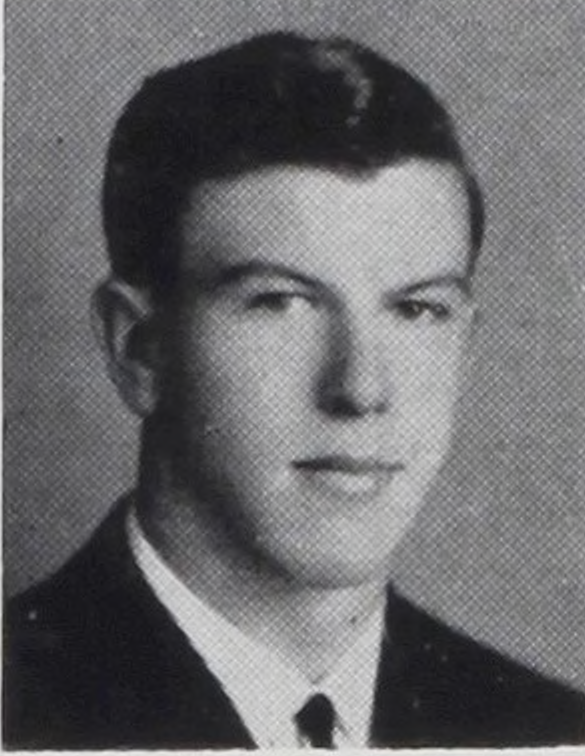
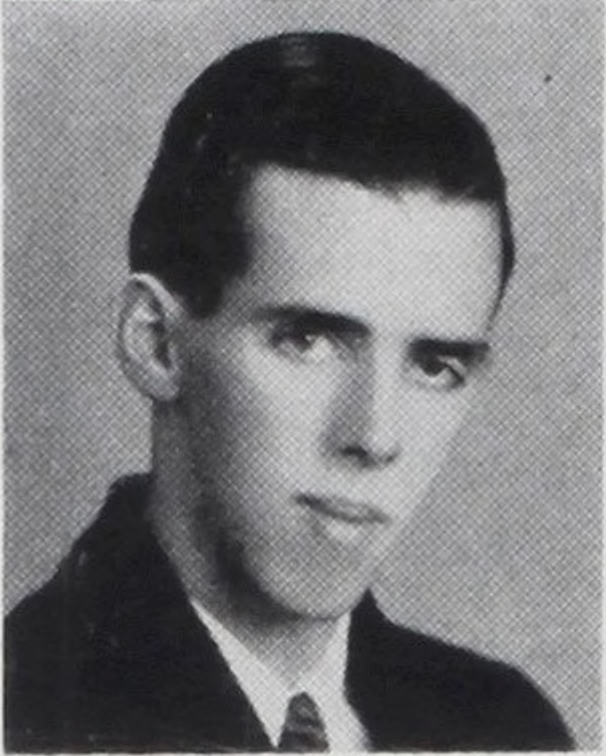
LYONS, ALBERT LOUIS
Technical Electric
Executive Board, Minute-
men.

Louis Lyons



McKINLEY, CLARENCE H.
Vocational Electric

MADSEN, HOWARD ELLIS
Technical Printing

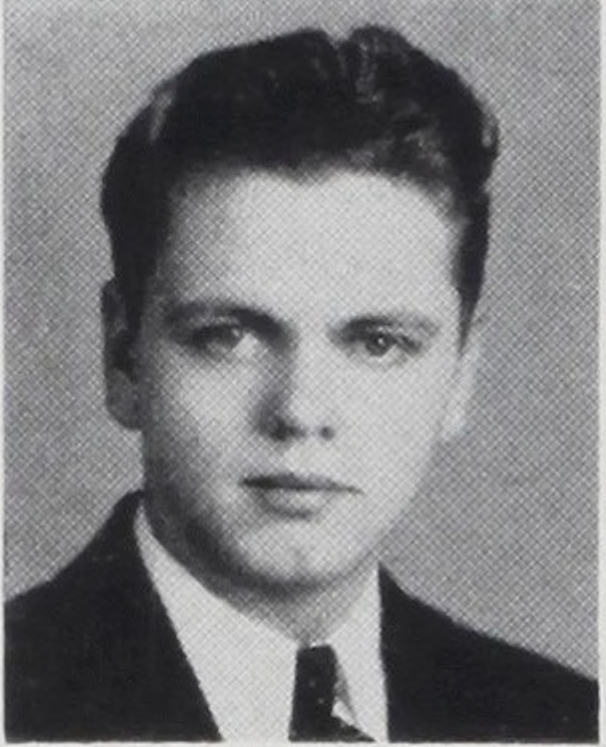


McKOWN, ROBERT E.
Technical Building
Construction
Executive Board, Business
Manager Class Play, First
Aid, Library Council, We
Drivers, Public Speaking,
Secretary Cafeteria Board,
President Minutemen, Au-
ditorium Staff, Treasurer
Oyer-un-Gon, Hi-Y, Treas-
urer, President Orange B,
Sergeant-of-arms Camera,
Secretary Pythagoras, Sil-
ver, Bronze Scholarship
Pins, Football, Basketball,
Junior Track, Captain,
Battalion Chief Fire
Squad.

*Robert E.
McKown*

McCANN, JAY LOUIS
Vocational Printing
Tech Pep, Type-Hi, Orches-
tra, Auditorium.

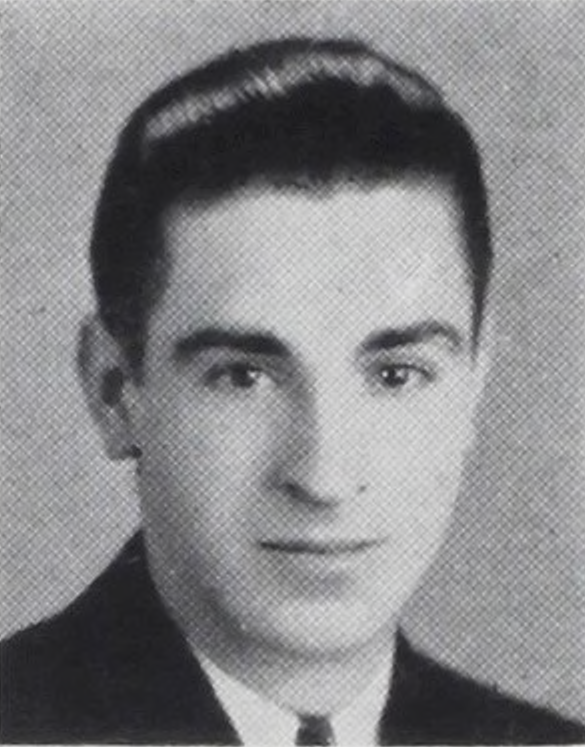
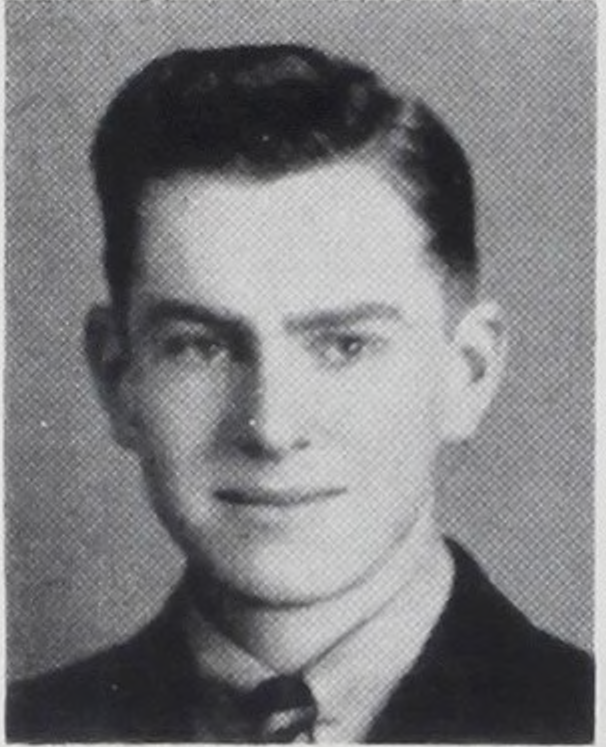
Jay McCann



McLAIN, CHARLES S.
Technical Printing

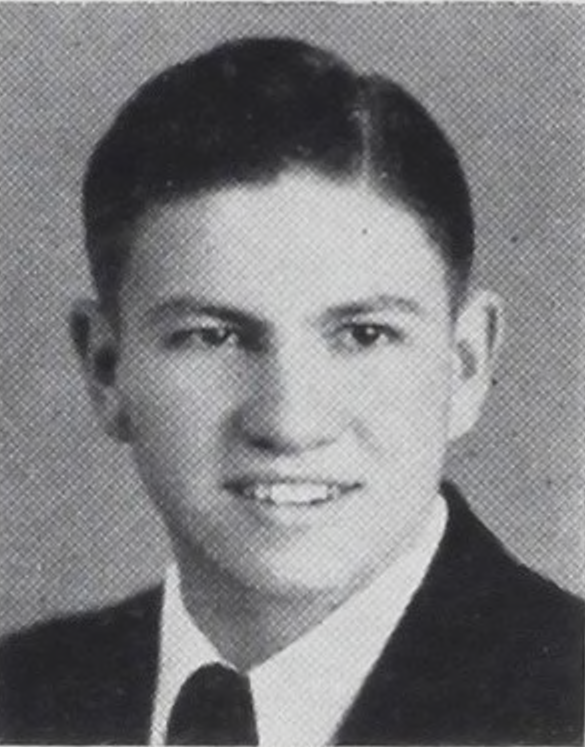
Charles S. McLain

McCLINTOCK, ROBERT M.
Technical Electric
Executive Board.



MILLS, WILLIAM K.
Vocational Press

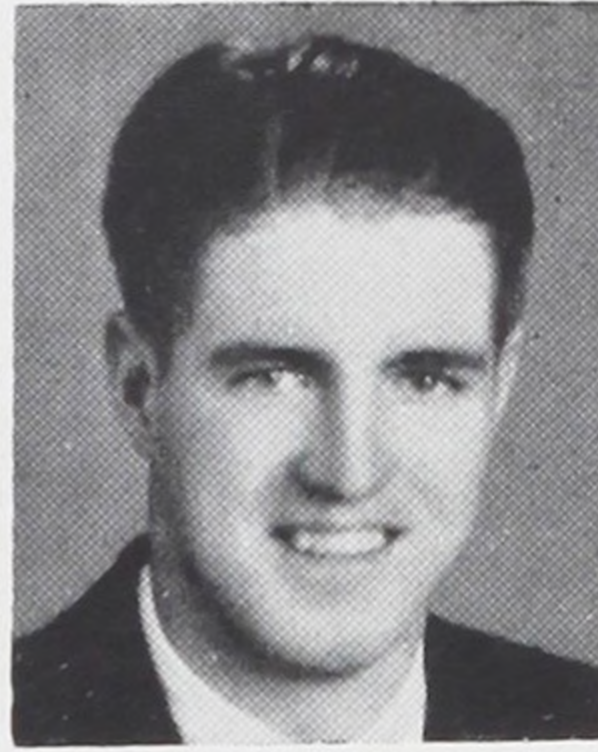
McCRIMMON, O'DILLON W.
Vocational Printing
First Aid.



MOSER, FRED JOHN
Vocational Gas Engine
B.A.E.

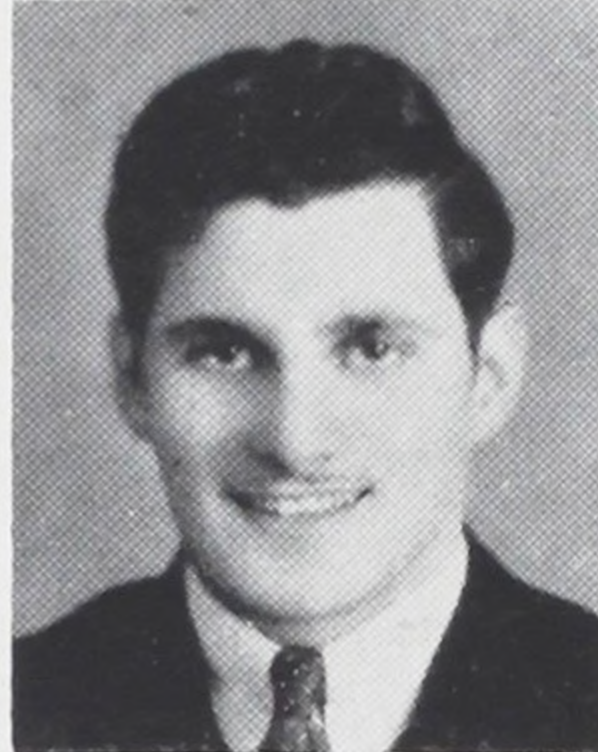


MOY, DONALD
Vocational Electric



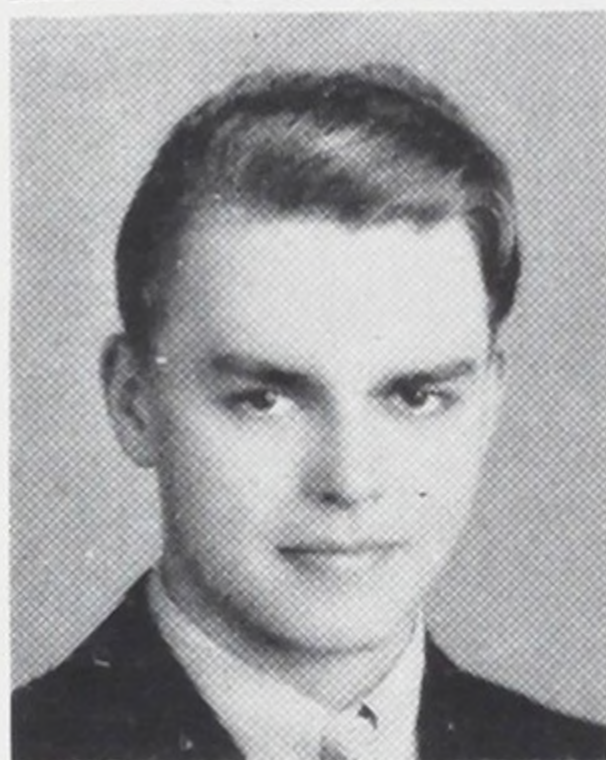
PACHECO, GEORGE FORRIS
*Vocational Machine
Machinist.*

NAGAKI, JOE HIDERJOSHI
Technical Electric
Bronze, Silver Scholarship
Pins.



PARODI, LUE
Technical Electric
Soccer.

NICHOLLS, GEORGE LEONARD
Technical Electric
Chess, Gym Leaders, Ser-
geant-at-arms, Vice-presi-
dent Astronomy, Bronze,
Silver Scholarship Pins.



Earle Pickens

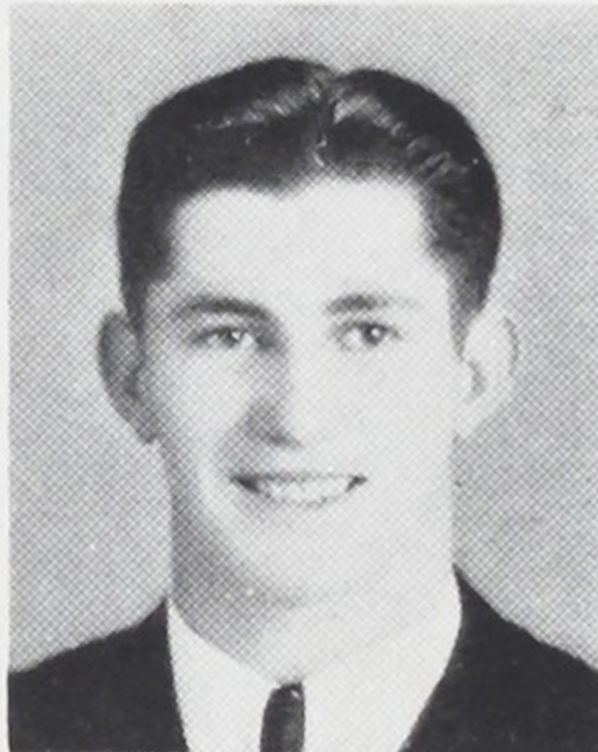
PICKENS, EARLE W.
Vocational Electric

NIELSEN, ROBERT M.
Technical Mechanical
Executive Board, Student
Body Treasurer, Minute-
men, Fire Squad, Library
Council, Book Exchange,
Secretary Oyer-un-Gon, Hi-
Y, President Orange B.
Wrestling.



PIERCE, WILLIS E.
Technical Aviation
First Aid, Treasurer, Sec-
retary, Vice-president,
President Aviation, Secre-
tary Camera, Oyer-un-Gon,
Philatelic, Public Speak-
ing, Auditorium, June '36
Class Play, Club Editor
Poly Tech, Minutemen.

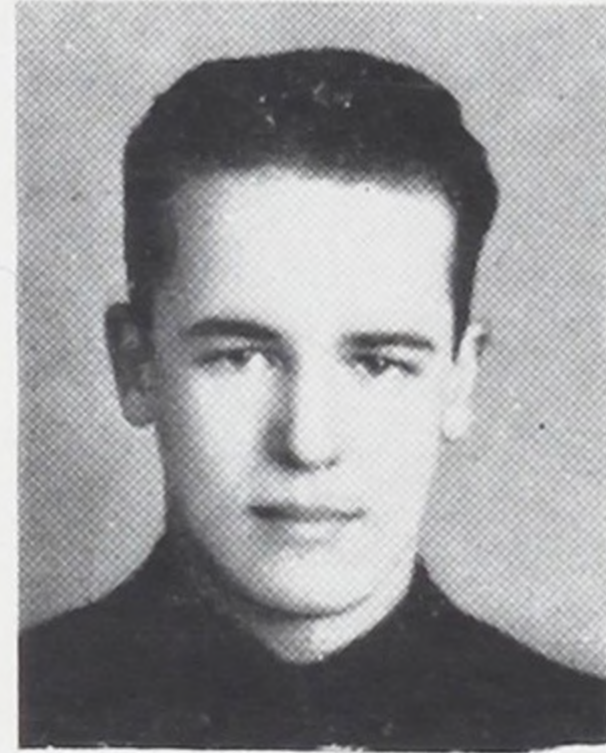
NORDELL, JOHN D.
Vocational Electric



POWERS, GORDON
Vocational Electric

*Oscar
Powers*

OLIVERA, ALFRED
Vocational Gas Engine
B.A.E.

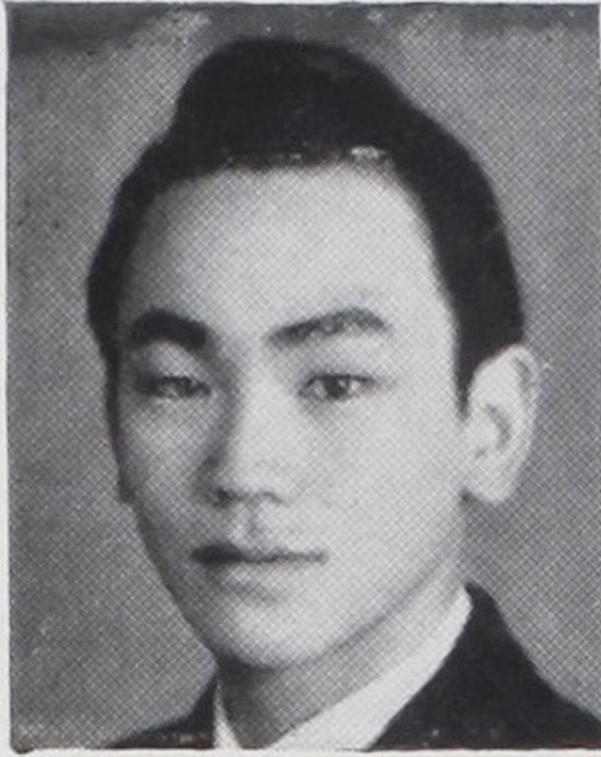


PRESLEY, JAMES W.
Technical Electric
Bronze Scholarship Pin,
Tennis.

James W. Presley



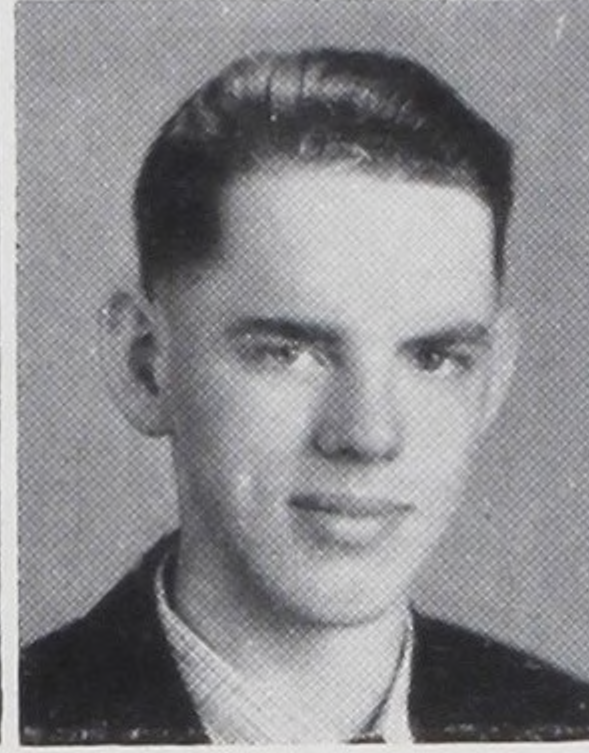
QUINN, BENJAMIN
Technical Aviation



SCHADE, ARTHUR D. T.
Technical Electric
Treasurer Chess, Minute-
men, Wrestling, Class Play.

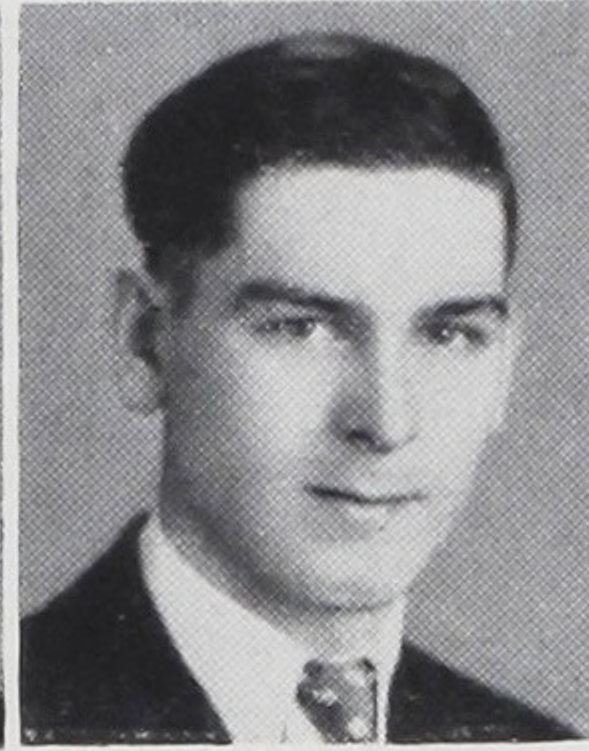
Arthur Schade

REMMEN, ROBERT M.
Vocational Machine
First Aid, President Ma-
chinist, Toolmakers.



SCHLOTTMAN, ROY OTTO
Vocational Gas Engine
Gym Leaders, B.A.E.

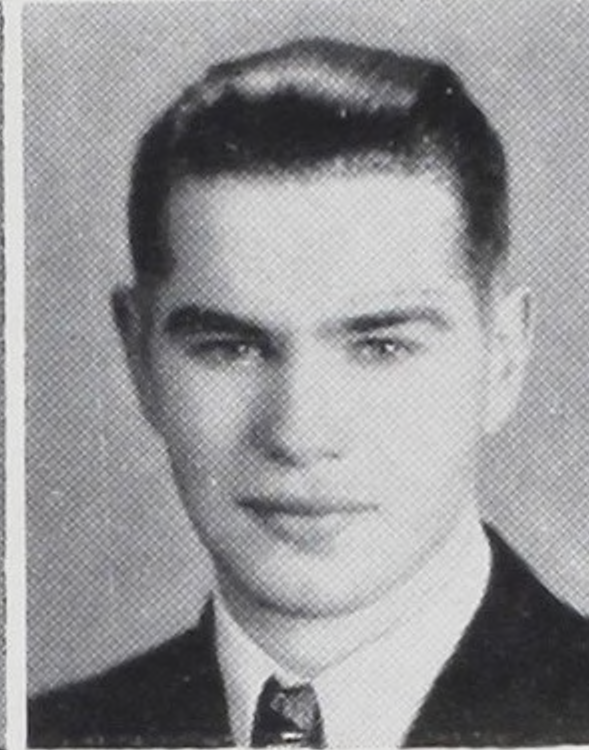
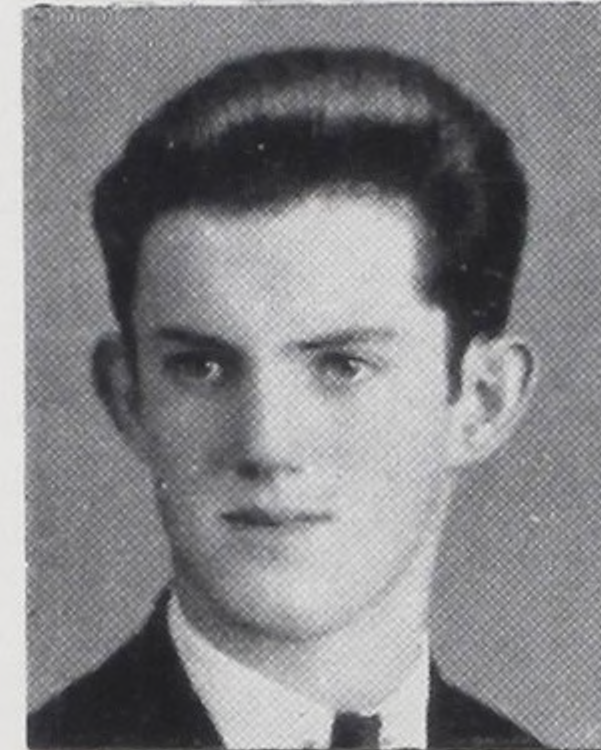
RICHARDS, EDWARD L.
Vocational Machine
Machinist, Toolmakers.



P. Schmidt

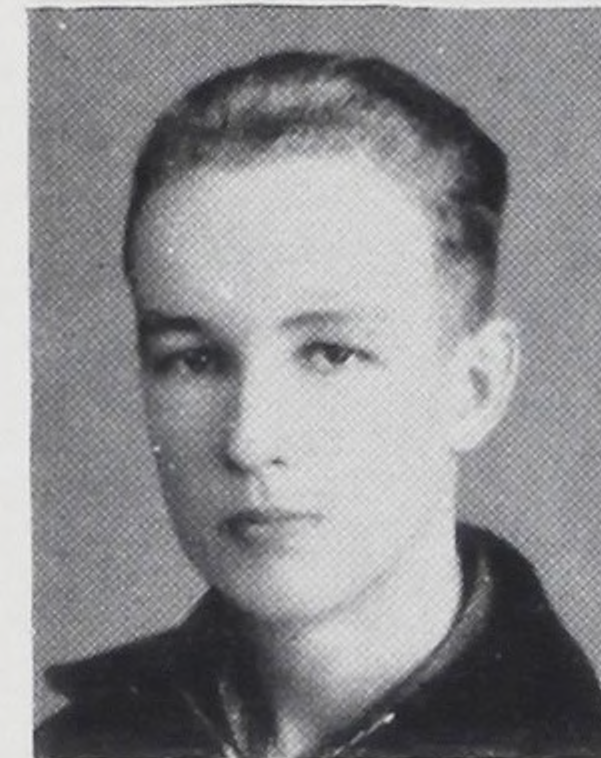
SCHMIDT, PATRICK
Vocational Cabinet Making

Alfred Rowe
ROWE, ALFRED EUART
Technical Machine
First Aid.



SEBERG, FRANK
Technical Aviation
Executive Board, Camera,
Public Speaking, Chess,
Aviation.

ROWLAND, ROBERT JACKSON
Vocational Sheet Metal
First Aid, Executive
Board.



SERVIZIO, SAM
Technical Aviation

ROYS, LESTER L.
Technical Printing
News Editor Tech Pep. We
Drivers, Orange B, Type-
Hi, Radio Station KBPS,
Gym Leaders, Minutemen,
Sports Editor Poly Tech,
Public Speaking, Manager
Football, Junior Track,
Football.



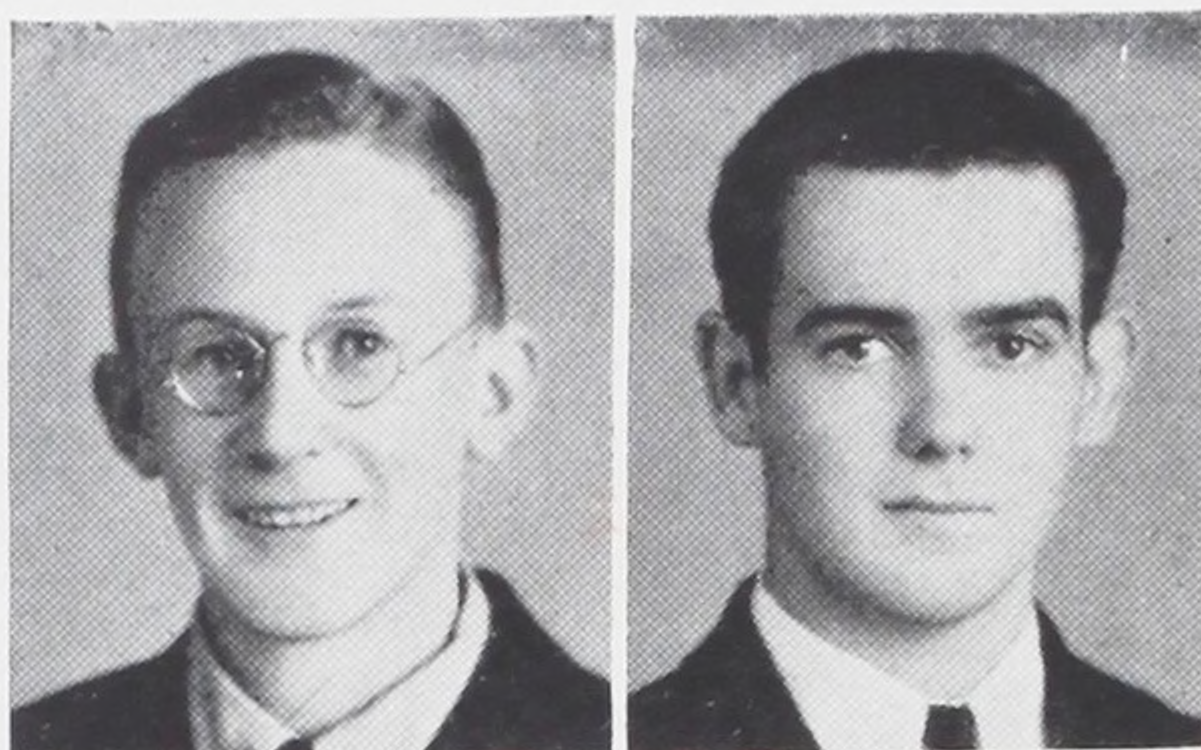
SHELTON, GUY THOMAS
Technical Electric
Sergeant-at-arms Radio,
Minutemen.

Guy Shelton

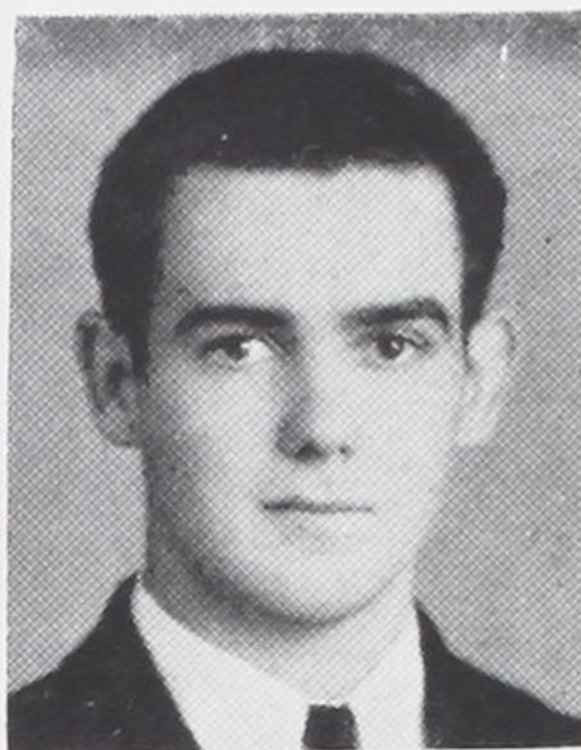


Albert Shinn

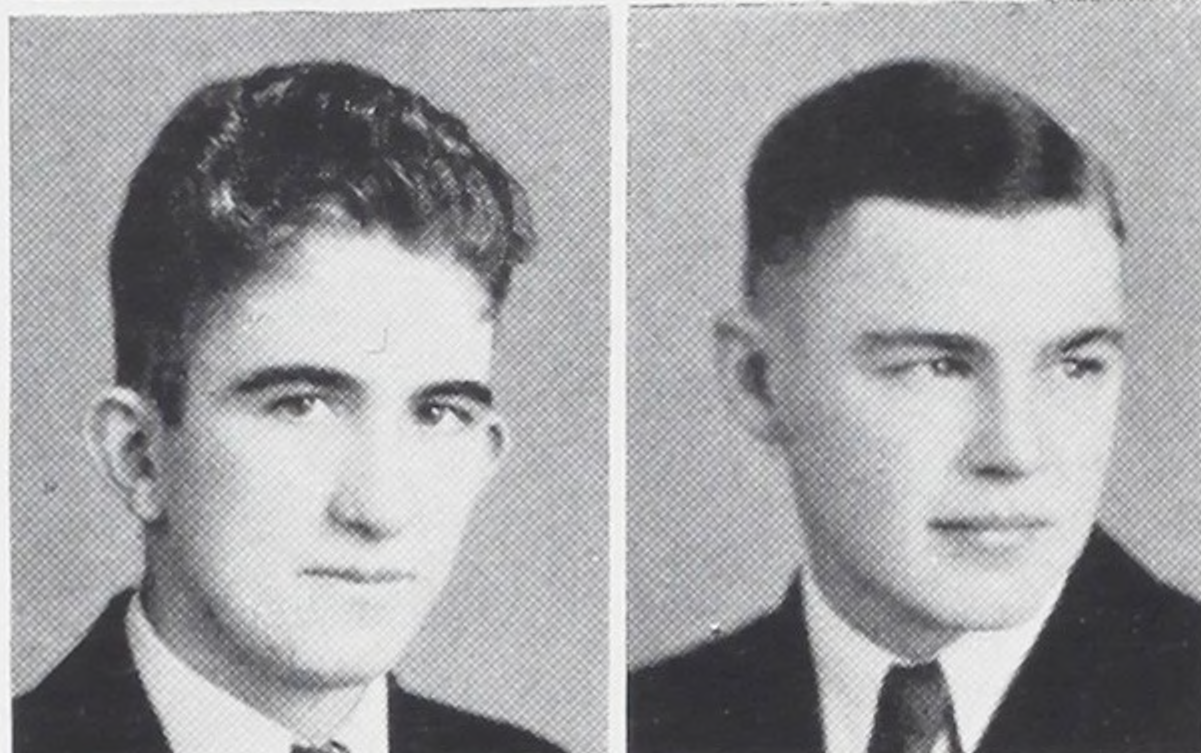
SHINN, ALBERT WILLIAM
Technical Machine
Minutemen, Philatelic, Ma-
chinist.



STEWART, DONALD
Technical Aviation
Soccer.



SLY, RAYFORD
Technical Electric
Vice-president Astronomy.
Radio.



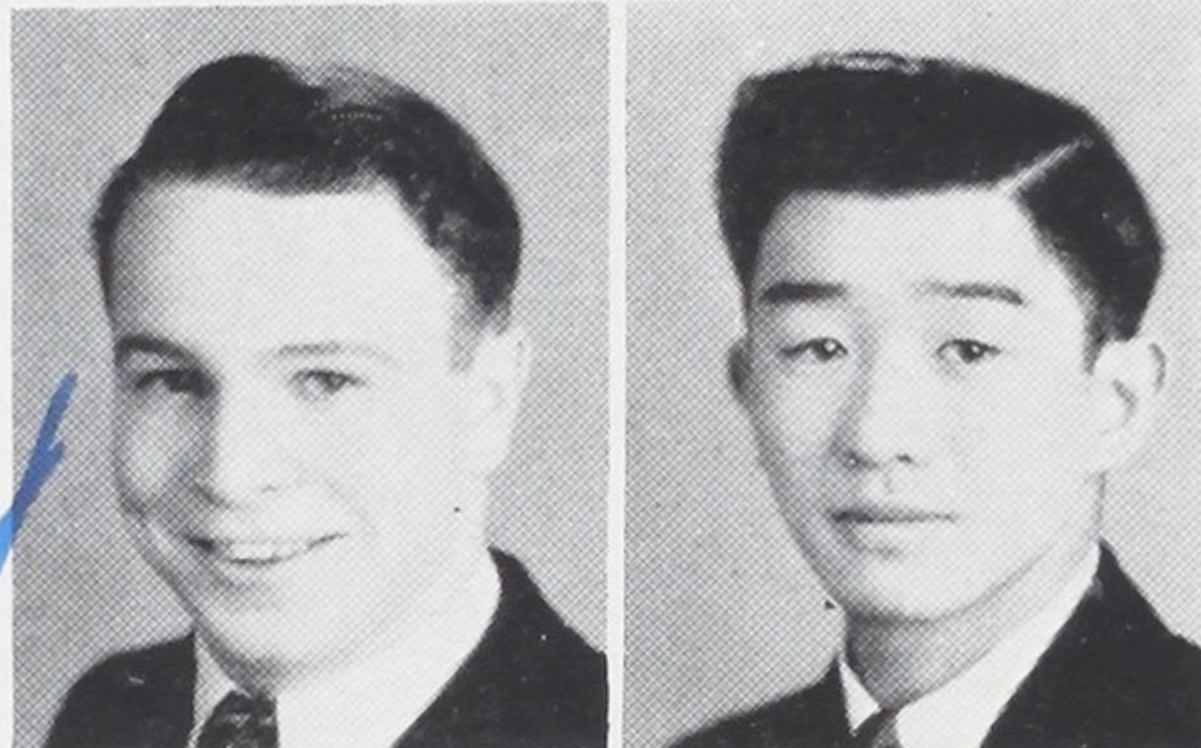
STRACK, ALLEN ROBERT
Vocational Machine
Machinist.

Allen Strack

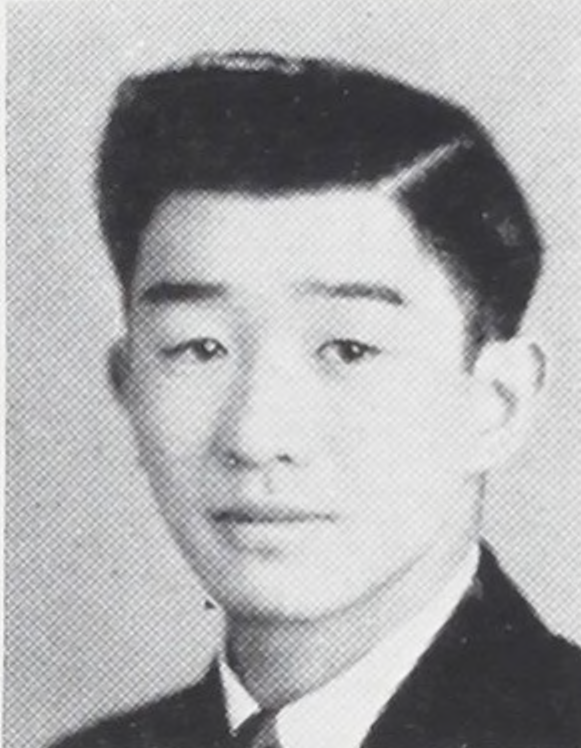


SMEAD, WILLIAM
Technical Electric
Student Body Treasurer,
Fire Squad, Minutemen,
Oyer-un-Gon, Orange B,
Hi-Y, Electric, Football,
Gym Leaders.

Bill Smead

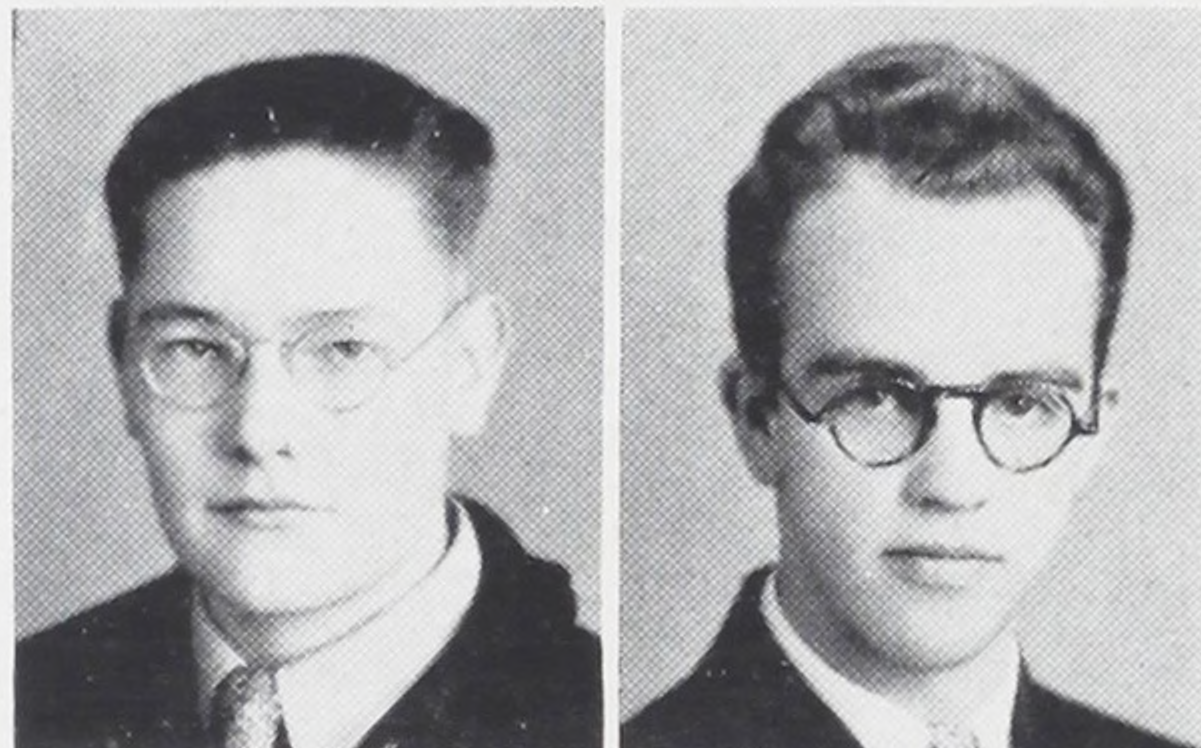


SUMIDA, NOBUYUKI
Technical Aviation
First Aid, Aviation.



SNIPES, ORAN
Technical Mechanical

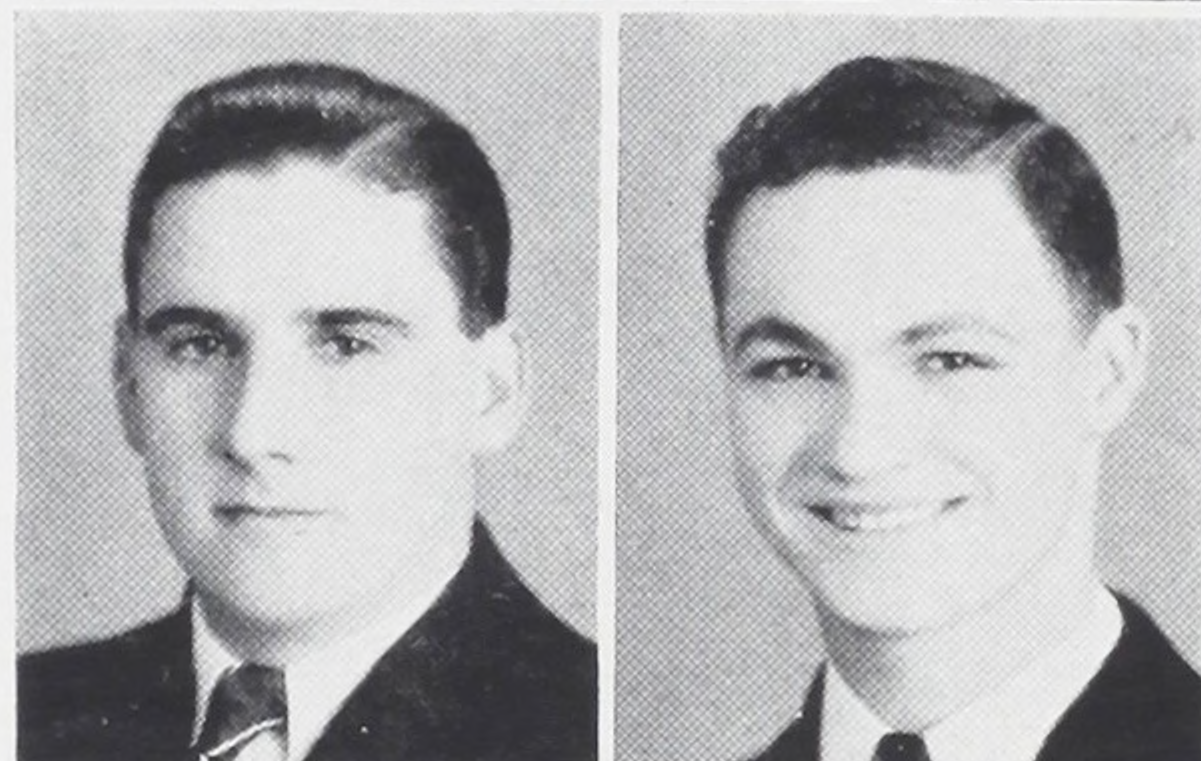
Oran Snipes



TABLER, LORNE WESLEY
Technical Electric
Treasurer, President Oyer-
un-Gon, Secretary, Vice-
President Camera.



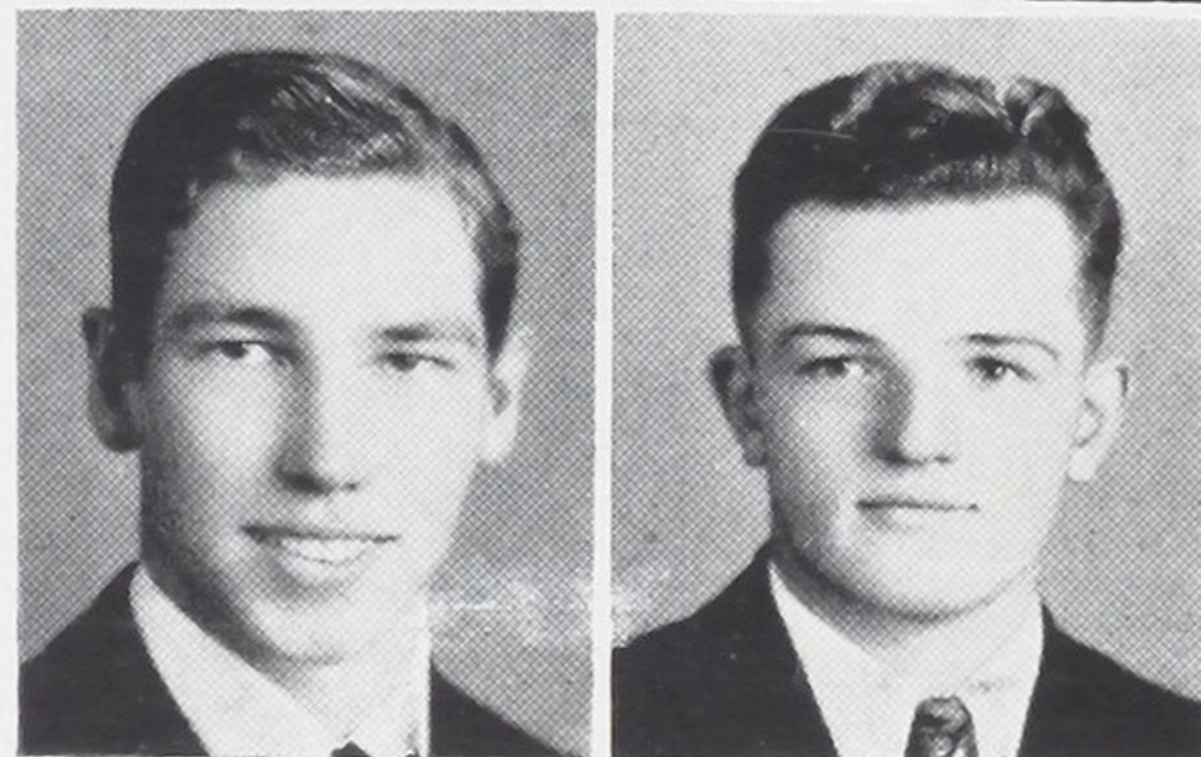
STAATZ, HENRY WILLIAM
Vocational Press
Baseball.



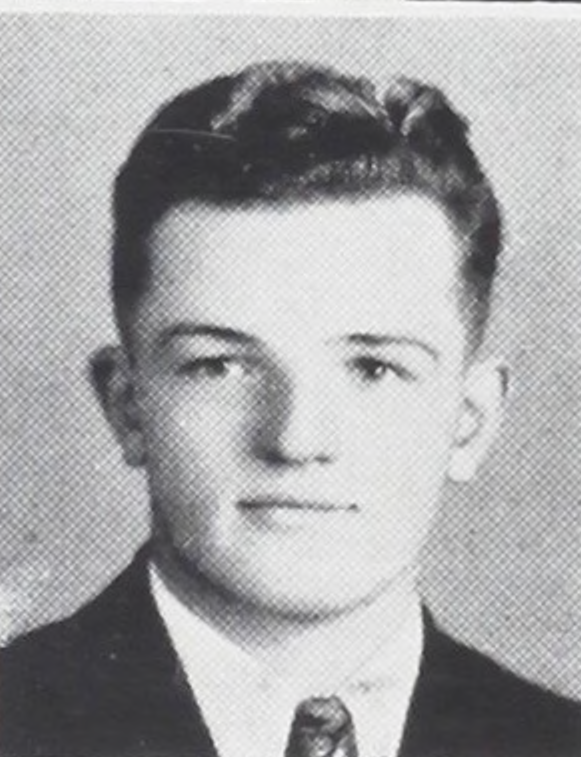
TADDEO, ALFRED STEPHEN
Technical Gas Engine
Minutemen, B.A.E. Junior
Football, Basketball.



STEARNS, WARREN S.
Vocational Press
Editor-in-Chief Poly Tech,
Library Council, Bronze,
Silver Scholarship Pins.



TAYLOR, BERT GLEN
Vocational Gas Engine
Gym Leaders, Executive
Board.



TAYLOR, R. M.
Technical Electric
Class Play.

R. M. Taylor.

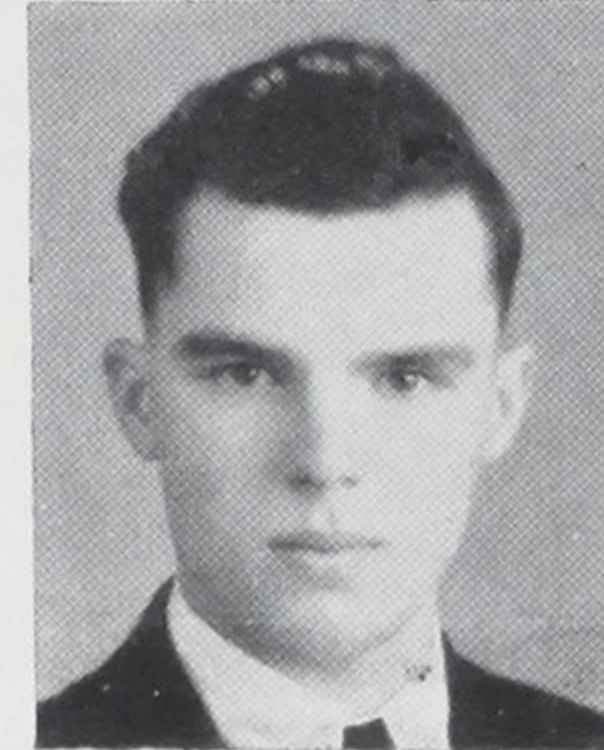
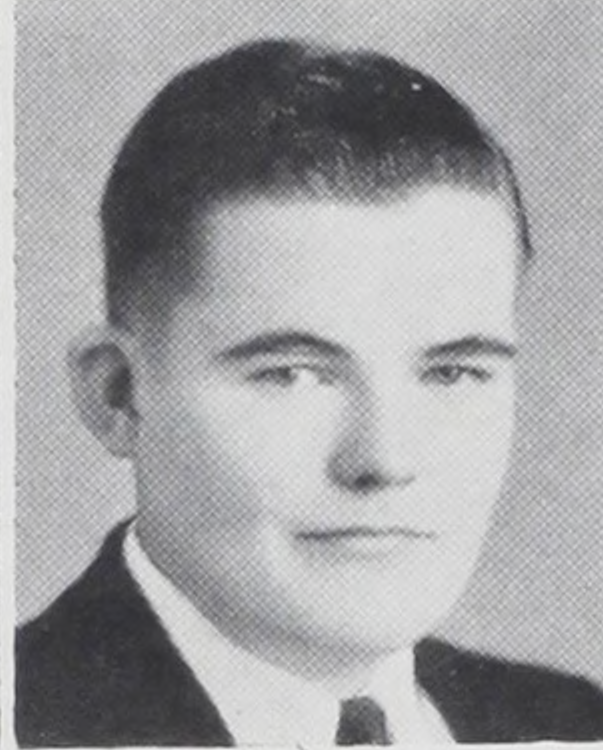
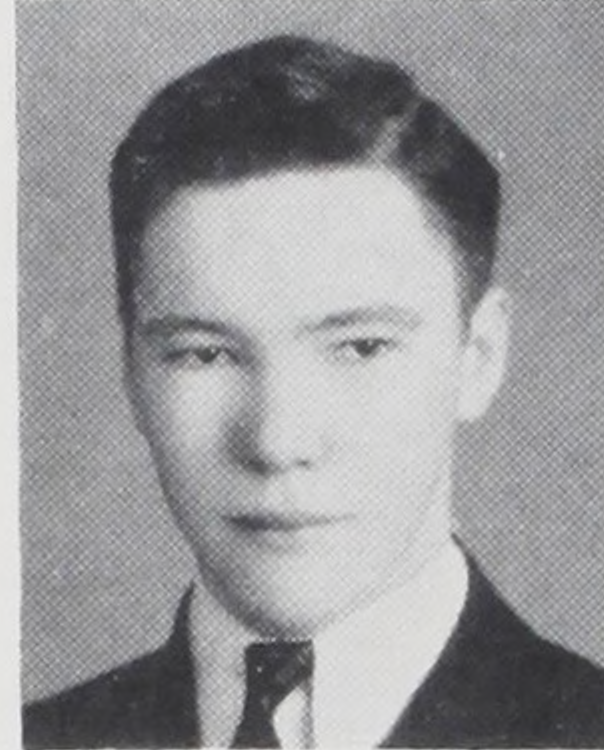
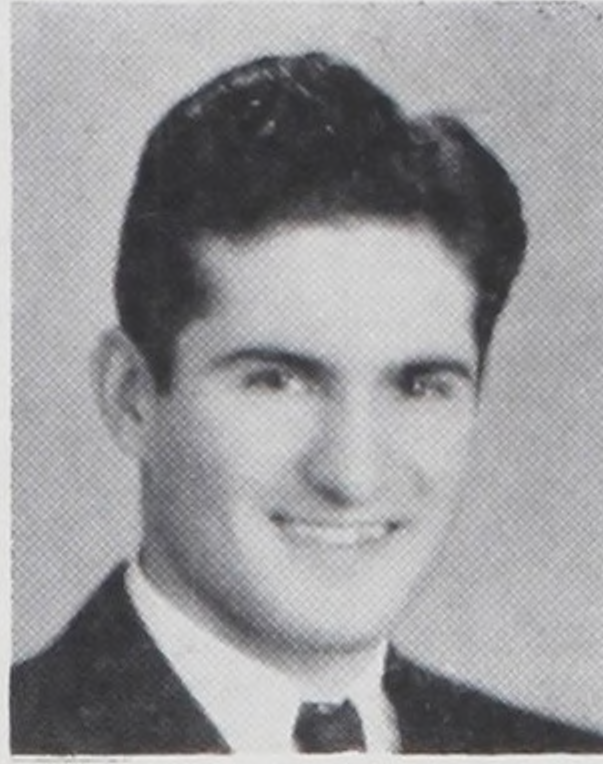
TAYLOR, WAYNE CARL
Vocational Press
Minutemen, Bronze Schol-
arship Pin.

THOMPSON, KENNETH B.
Technical Gas Engine

UPPINGHOUSE, RICHARD LOUIS
Technical Aviation
Aviation.

VOSPER, RICHARD L.
Vocational Cabinet Making
Treasurer Camera.

WALLACE, ALBERT LOUIS
Technical Mechanical
Band, Minutemen, Mana-
ger Candy Stand, Orches-
tra, Pythagoras, Secretary,
President Machinist, Gym
Leaders, Cashier.



WALTIE, RICHARD HENRY
Technical Machine

WERDERBER, JOSEPH F.
Vocational Machine
Machinist.

Joe Werderber

WILCOX, ELMER H.
Technical Electric
Secretary Oyer-un-Gon, We
Drivers, President Camera,
Executive Board.

WILLIAMS, JUNIUS J.
Technical Printing
President Student Body,
Executive Board, Minute-
men, Secretary, Vice-pres-
ident Library Council, Hi-
Y, Gym Leaders, Secretary
We Drivers, Class Play,
Cashier, Treasurer Public
Speaking, Assistant Yell
Leader, Yell King.

Junius Williams

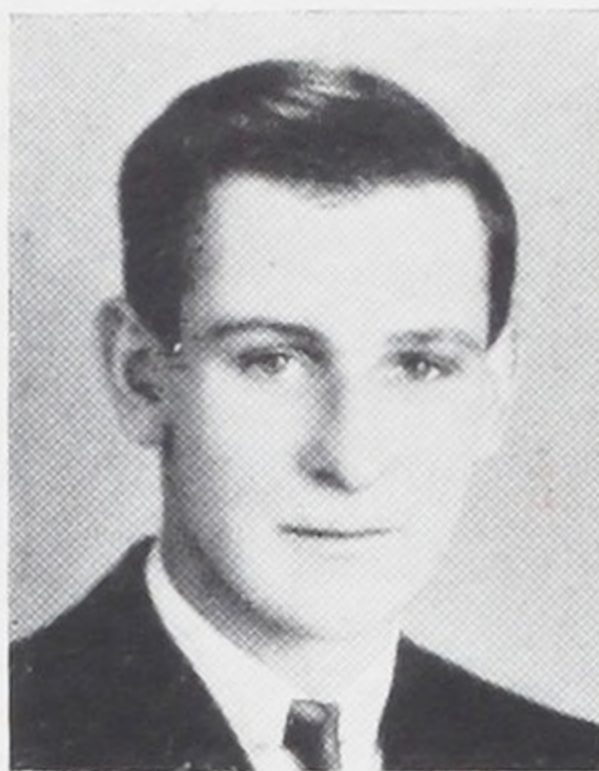
WILLIAMS, MATT C.
Technical Gas Engine

WILLIAMSON, FRANCIS A.
Vocational Electric

Francis Williamson



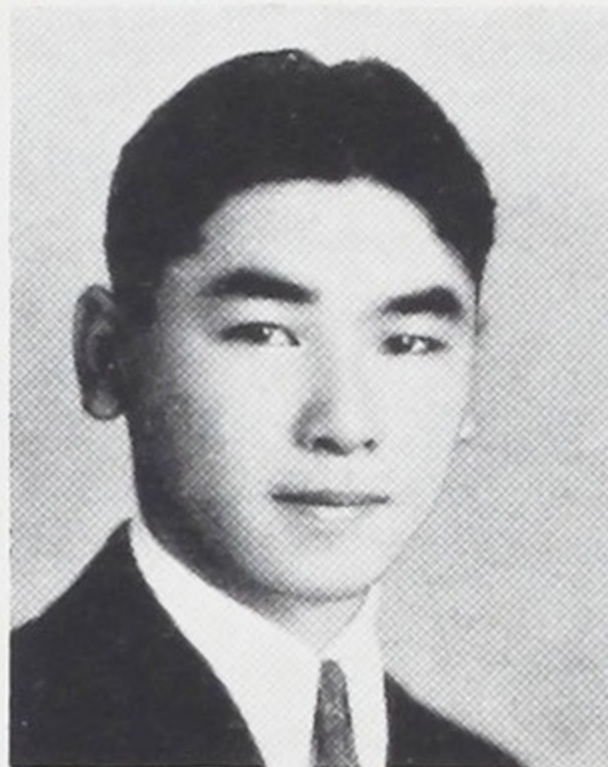
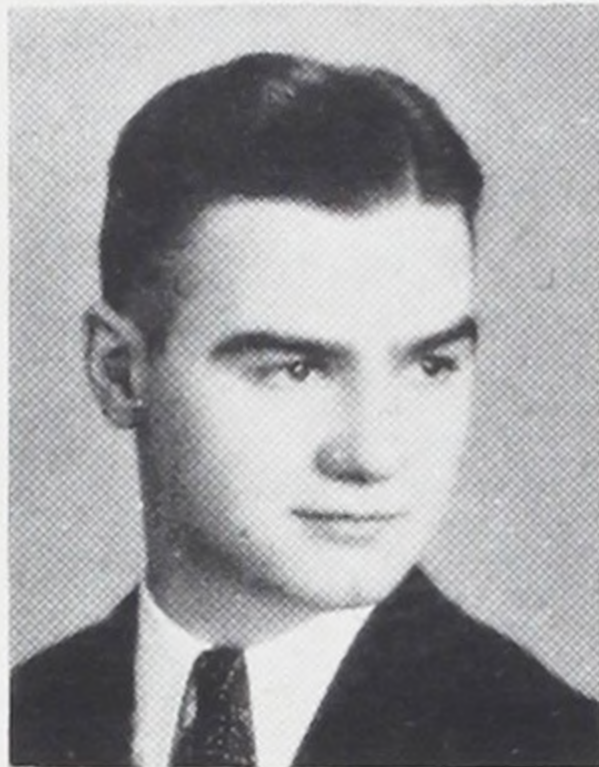
WILLOUGHBY, GEORGE F.
Vocational Gas Engine
Vice-president B.A.E., Ex-
ecutive Board.



WONG, PHILIP P.
Vocational Gas Engine

Philip P. Wong

WOJCIK, THEODORE
Vocational Printing
Mechanical Editor Poly
Tech, Minutemen, Secre-
tary, Treasurer Type-Hi,
Camera.

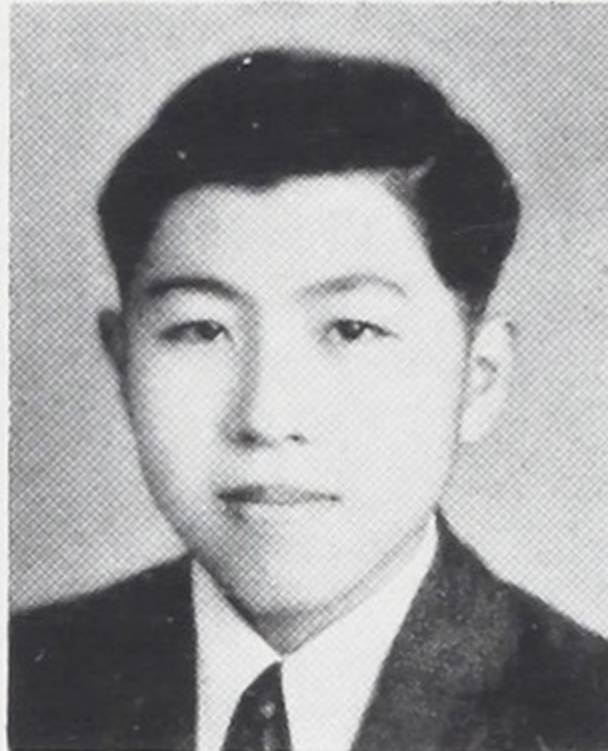


YAMASAKI, TED
Vocational Plumbing
First Aid, Chess.

Ted Yamasaki

WOLFE, RUBEN
Vocational Gas Engine
B.A.E.

Ruben Wolfe

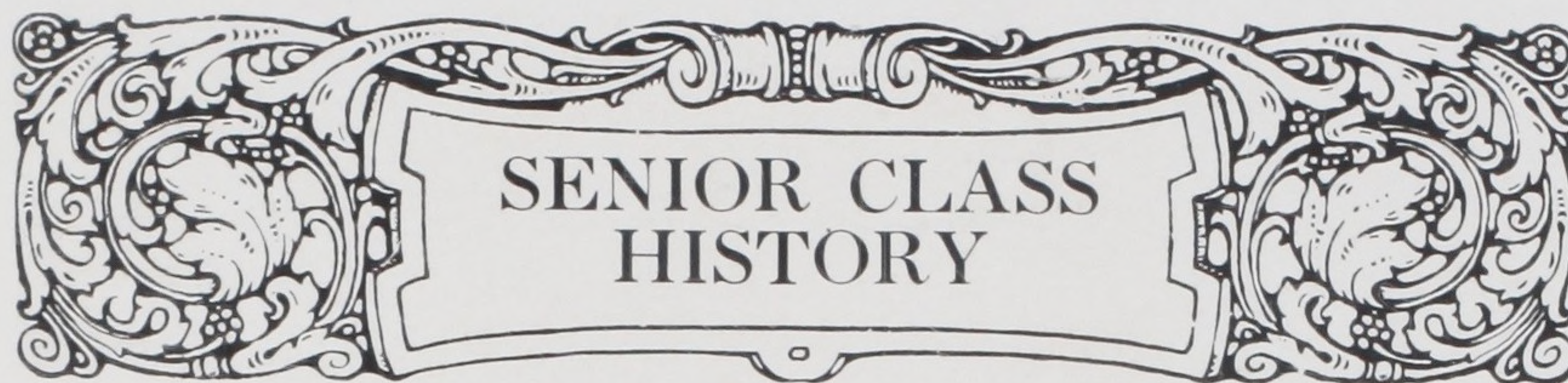


YOKOTA, PATRICK R.
Technical Electric
Executive Board, Minute-
men, Secretary, Treasur-
er, Sergeant-at-arms Cam-
era, Cashier, Sergeant-at-
arms Electric, Bronze
Scholarship Pin.

Patrick Yokota

Laurence Sandblast





SENIOR CLASS HISTORY

In January 1933, a class of freshmen entered the portals of Benson for the first time. Some entered with the intent of just getting by, and others came to waste their time away not caring what sort of record they made. Some excelled in scholarship, others in sports or in clubs. Out of this group, most have completed their courses and are now ready for graduation.

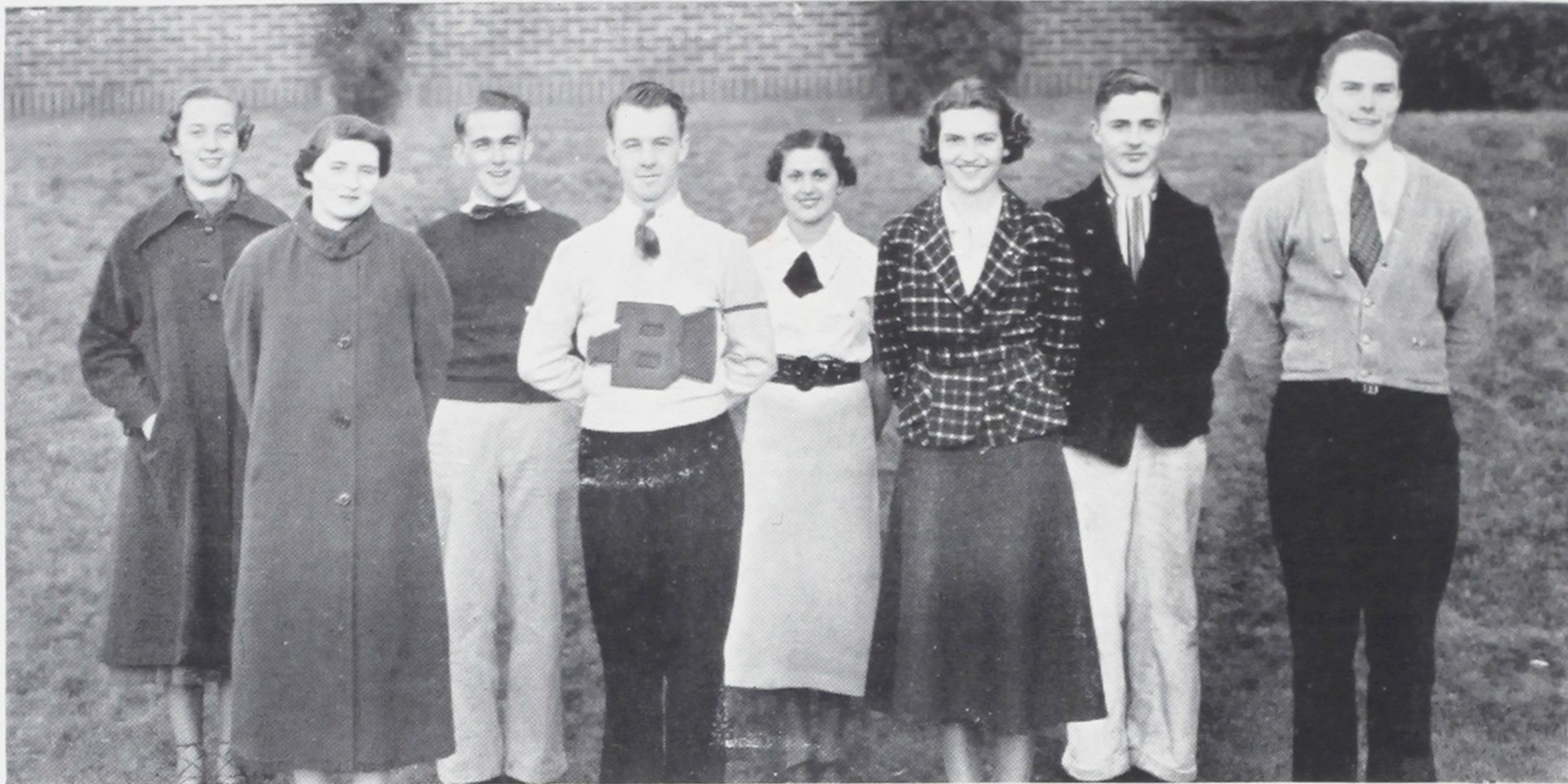
On April 15th, 1936, the class was organized by Mr. Cleveland, and the machine was put into motion for the election of the class officers. The officers elected were: Bob Nielsen, president; Bob McKown, vice-president; Darrell Jones, treasurer; Richard Van Fleet, secretary; Louis Kaiel, sergeant-at-arms; Warren Stearns, editor-in-chief of the Poly Tech; and Gordon Brown, Poly Tech business manager. Later Richard Van Fleet discontinued his schooling and William Buschman was elected to fill the vacant secretarial post.

After the beginning of the new term, President Nielsen appointed committees to make suggestions for the class colors, motto, and flower. The class finally selected as its motto, "Knowledge without practise makes but half an artist." Royal blue and silver were selected as the colors of the class and the white carnation was chosen as the class flower.

Since it is the custom of all graduating classes to present a play, the Jan. '37 class presented as its play a three-act farcical comedy, "Mary's Ankle." Under the capable direction of Mrs. Doris Smith the performance proved to be a huge success.

Now as we near graduation, we can safely say that we have done our utmost to uphold the high ideals of Benson, and we take this opportunity to say to the underclassmen, "Carry on."





First Row: Pat Shea, Junius Williams, Dorothy Cleveland, Paul Hay
Second Row: Betty Boucher, Douglas Drynan, Sylvia Stiano, Robert Drake

JAN. '37 CLASS PLAY

On the evening of December 11th the January '37 graduating class presented a three-act comedy entitled "Mary's Ankle"; written by May Tully. The play, one of the most amusing ever to be presented at Benson, is a story of ambitious but impecunious youth.

The leading character, "Doc" Hampton, is a young doctor just finished with his internship in one of the larger hospitals. He is yet without a practice except for his landlady, Mrs. Merrivale, who, because of her great desire to be doctored keeps a roof over him and his two friends, "Stoksie," a lawyer without clients, and "Chub," a financier devoid of capital.

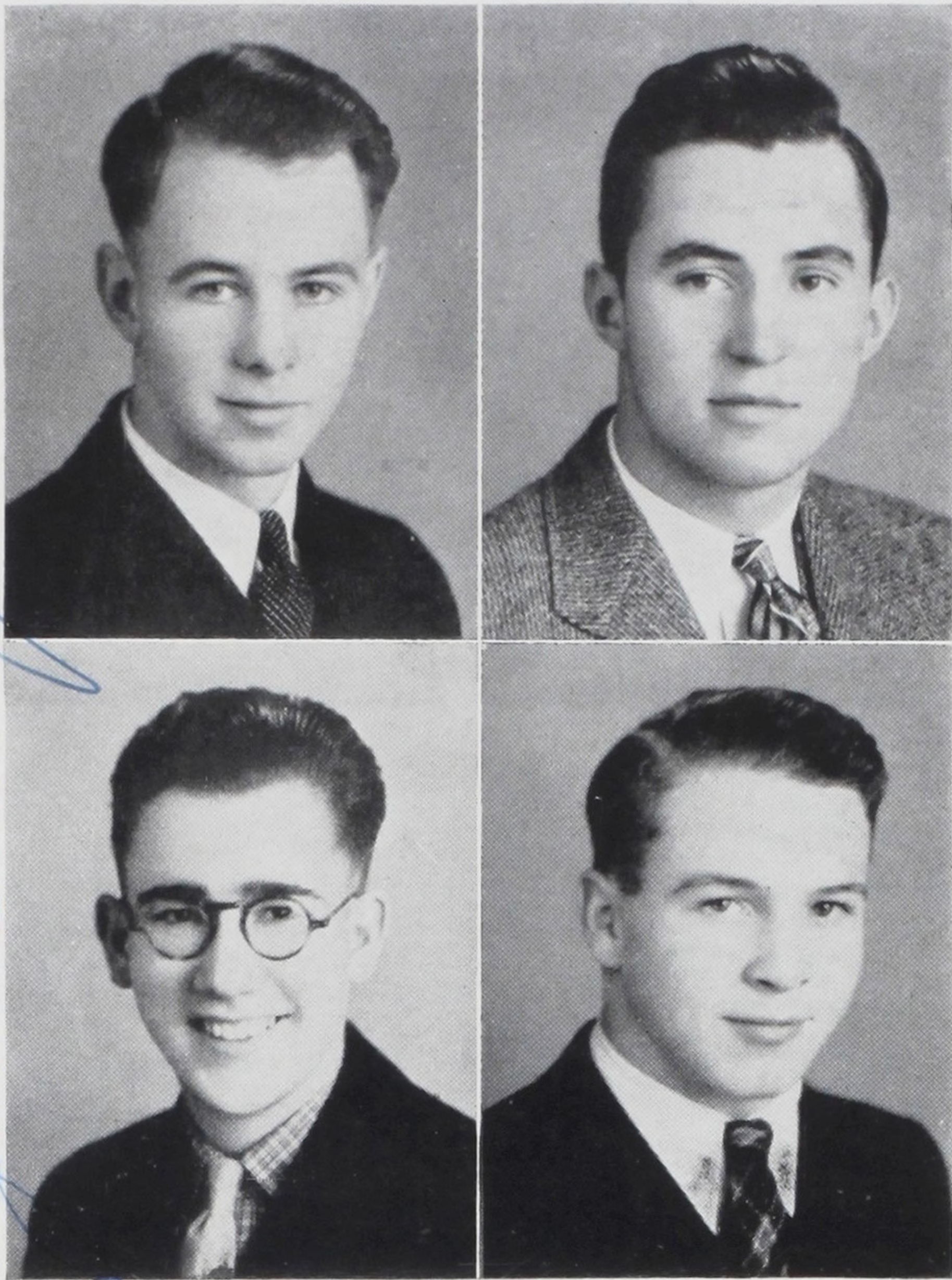
The "Doc" in order to procure money with which to live sends a fake wedding announcement to his rich uncle expecting to receive wedding presents which might be pawned. These gifts, however, prove to be things that cannot be pawned. To make matters worse Uncle decides to visit the newlyweds. Upon entering the room, he sees a very personable young woman, Miss Mary Jane Smith, whom he immediately assumes to be the wife of his nephew; but who in reality is a solicitor for funds who has had an auto accident outside "Doc's" house and is brought in for medical attention. Then to top everything Uncle decides to give them another wedding present in the form of a trip accompanying him to Bermuda. But everything turns out happily as Mary's sense of humor saves the day.

Those who took part in the play are Paul Hay as "Doc", Robert Drake as the lawyer, Junius Williams as the financier, Arthur Schade as "Doc's" uncle, and Richard Taylor as the steward. The feminine roles were played by Dorothy Cleveland as Mary Jane Smith; Pat Shea as Mrs. Merrivale; Betty Boucher as Clementine; the daughter of the landlady; and Sylvia Staino as Mary's aunt, Mrs. Burns.

Mrs. Doris Smith coached the play. Student assistants were Norman Hall and Bob McKown, business managers; Mark Arehart, property manager; and Darrell Jones, advertising manager. Arthur Schade replaced Douglas Drynan in the part of the rich uncle, but the plate had been made and it was too late to make the change on this page.



Jim Bell Junius Williams



JUNIUS WILLIAMS
JAMES BELL

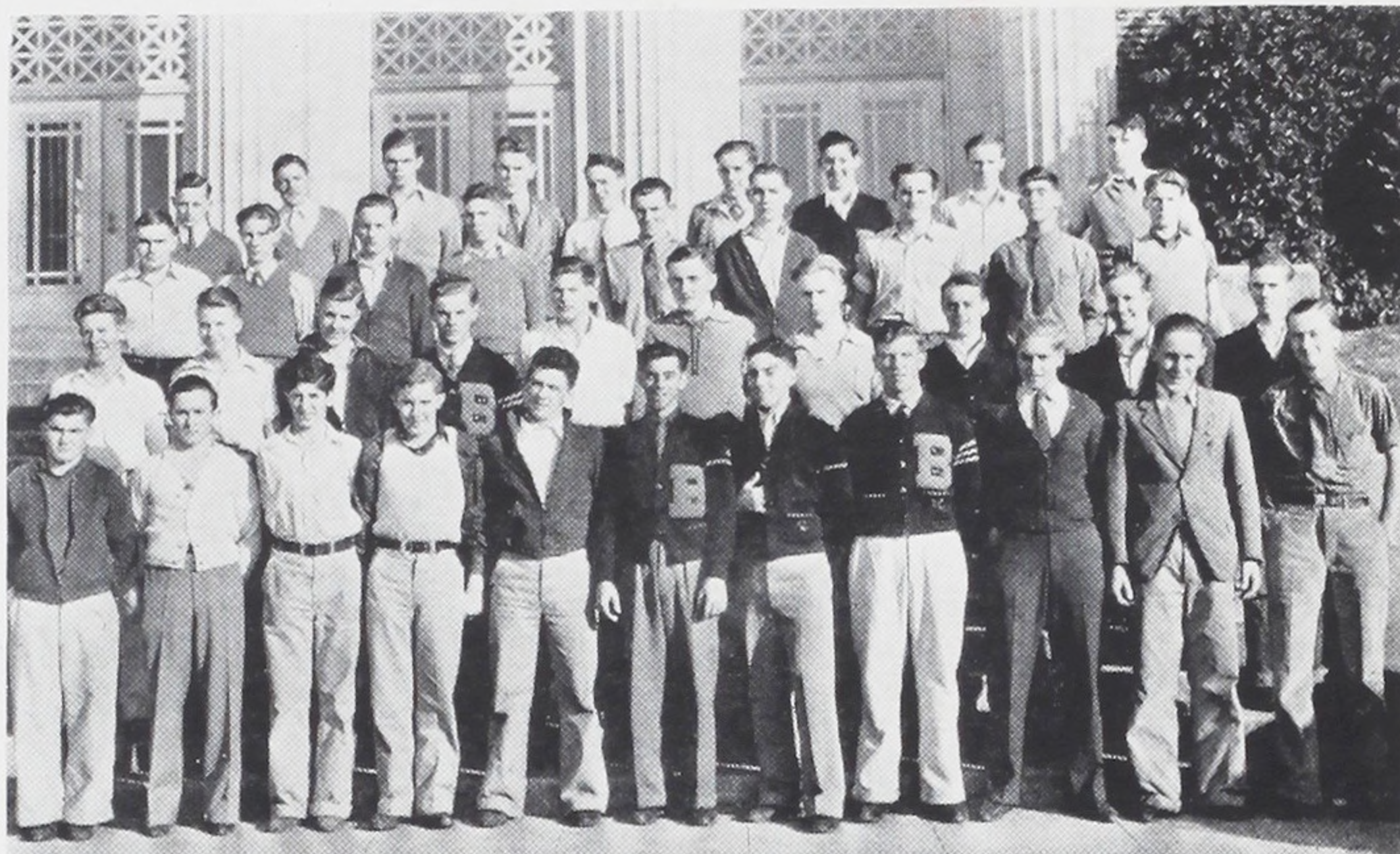
ALLEN HAYCOCK
BILL SMEAD

STUDENT BODY OFFICERS

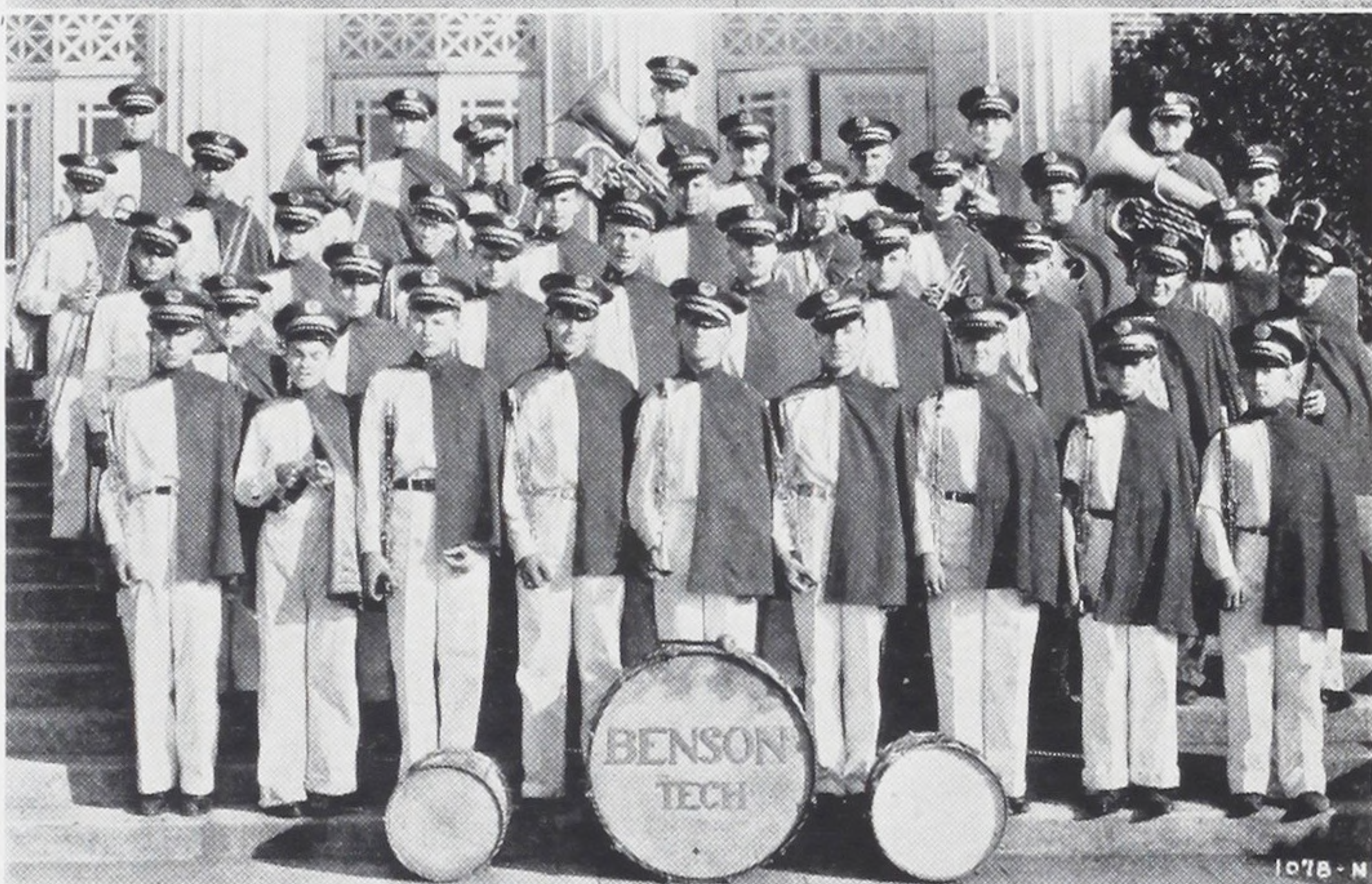
JUNIUS WILLIAMS	.	.	.	President
ALLEN HAYCOCK	.	.	.	Vice-President
JAMES BELL	.	.	.	Secretary
BILL SMEAD	.	.	.	Treasurer



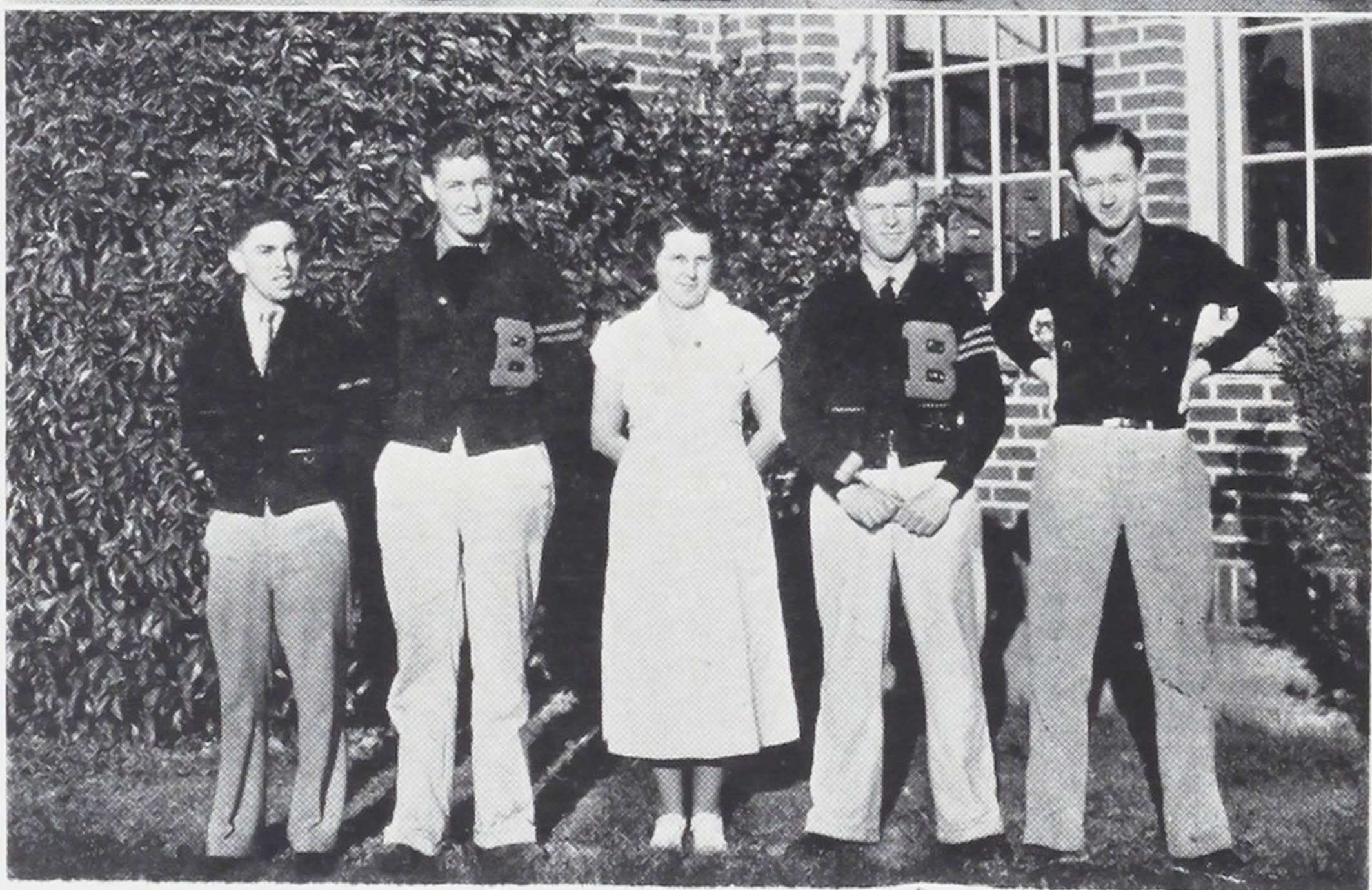
AUDITORIUM STAFF
BENSON BAND
CAFETERIA BOARD



Front Row: Bowder, Pettibone, Piha, Laird, Arehart, Angelus, Osipovich, McKown, Christeansen, Peterson, Schreiber. *Second Row:* Heard, Burton, Robertson, Grassley, Gilbert, Boswell, Manis, Nielsen, Abbott, Kaiel, Magnuson. *Third Row:* Sterne, Serriels, Arnold, Cook, Blivin, Stewart, Anderson, Fox, Junck. *Fourth Row:* Carner, Petersen, Pedersen, Rohse, Bernard, Carr, Parsons, Farr, Bowen. *Back Row:* Churchill, Lundberg, Bernard, Donnelly, Evans.



Front Row: Sandberg, Parker, First, Illig, Johnson, Siegfried, Boles, Coats, Berry. *Second Row:* Densmore, Trachi, Boone, Storli, Wilson, Radcliffe, Havercroft, Byers, Bell. *Third Row:* DeBenedetti, Hood, Hale, Tobin, Smith, Weeks, Easton, Holm, Woody. *Fourth Row:* Harrison, Mangold, Stark, Trezone, Anderson, Stone, Davis, Geres, Lyon. *Back Row:* Mr. Ferris, Bent, Perkins.



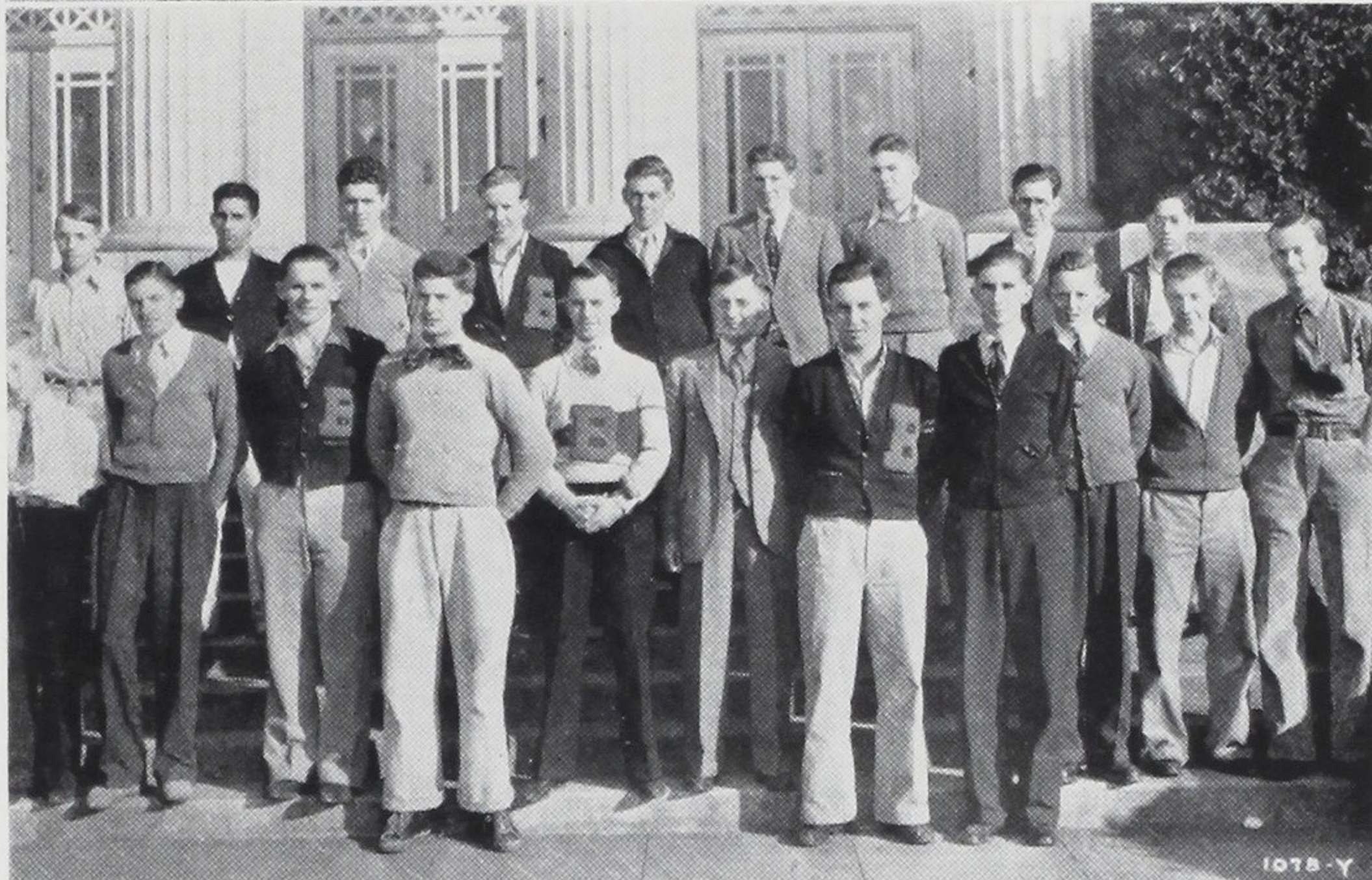
Osipovich, Halverson, Mrs. Cupper, McKown, Schreiber.

CANDY STAND STAFF
EXECUTIVE BOARD
BENSON FIRE SQUAD

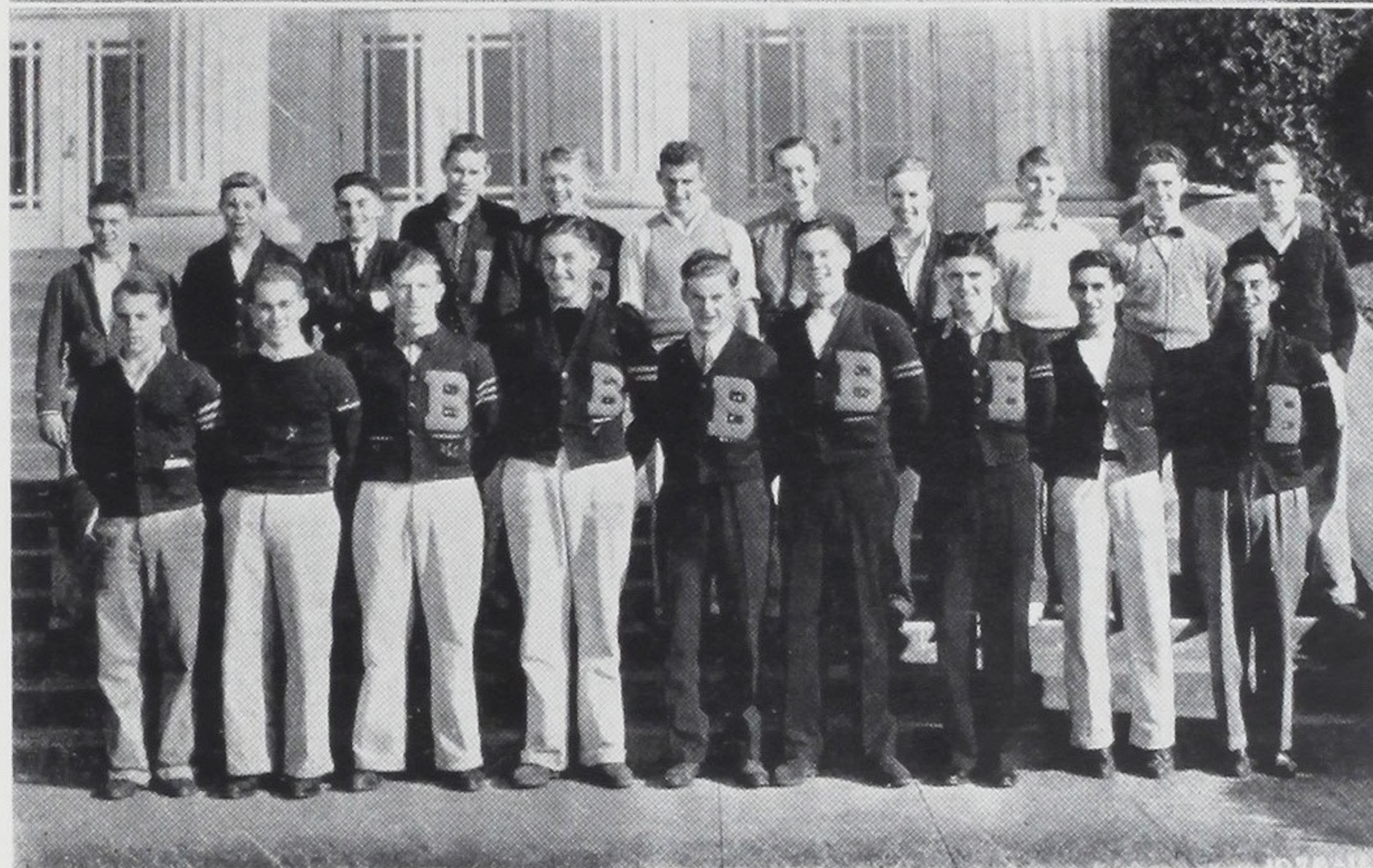
Simpson, Mickey, Wallace,
Daniels, Mr. Holden.



Front Row: Olsen, Peterson,
Sohler, Eastman, Williams,
Mr. Bittner, Haycock, Bush-
man, Carver, Larsell, Schrei-
ber. *Back Row:* Green,
Kaiel, Allen, Abbott, Lyons,
Wilcox, Cook, Bell, Wong.



Front Row: Nielsen, Drynan,
McKown, Halverson, Grass-
ley, Isberg, Jones, Kaiel,
Angelus. *Middle Row:* Are-
hart, Lundberg, Osipovich,
Isaacson, English, Marchi,
Schreiber, Abbott, Donnelly,
Allen, Bobelle.

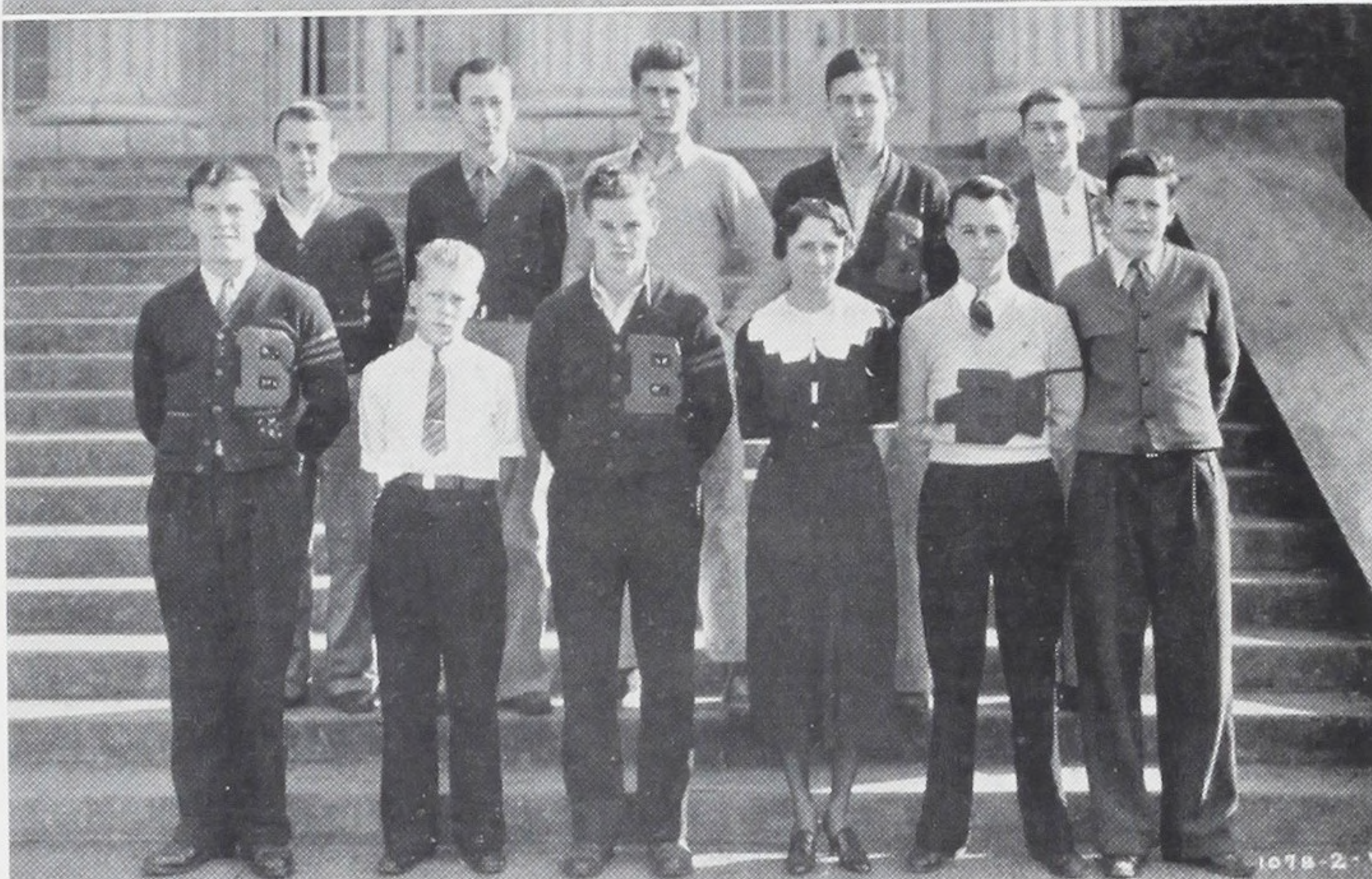


FIRST AID CLASS
LIBRARY COUNCIL
MINUTEMEN

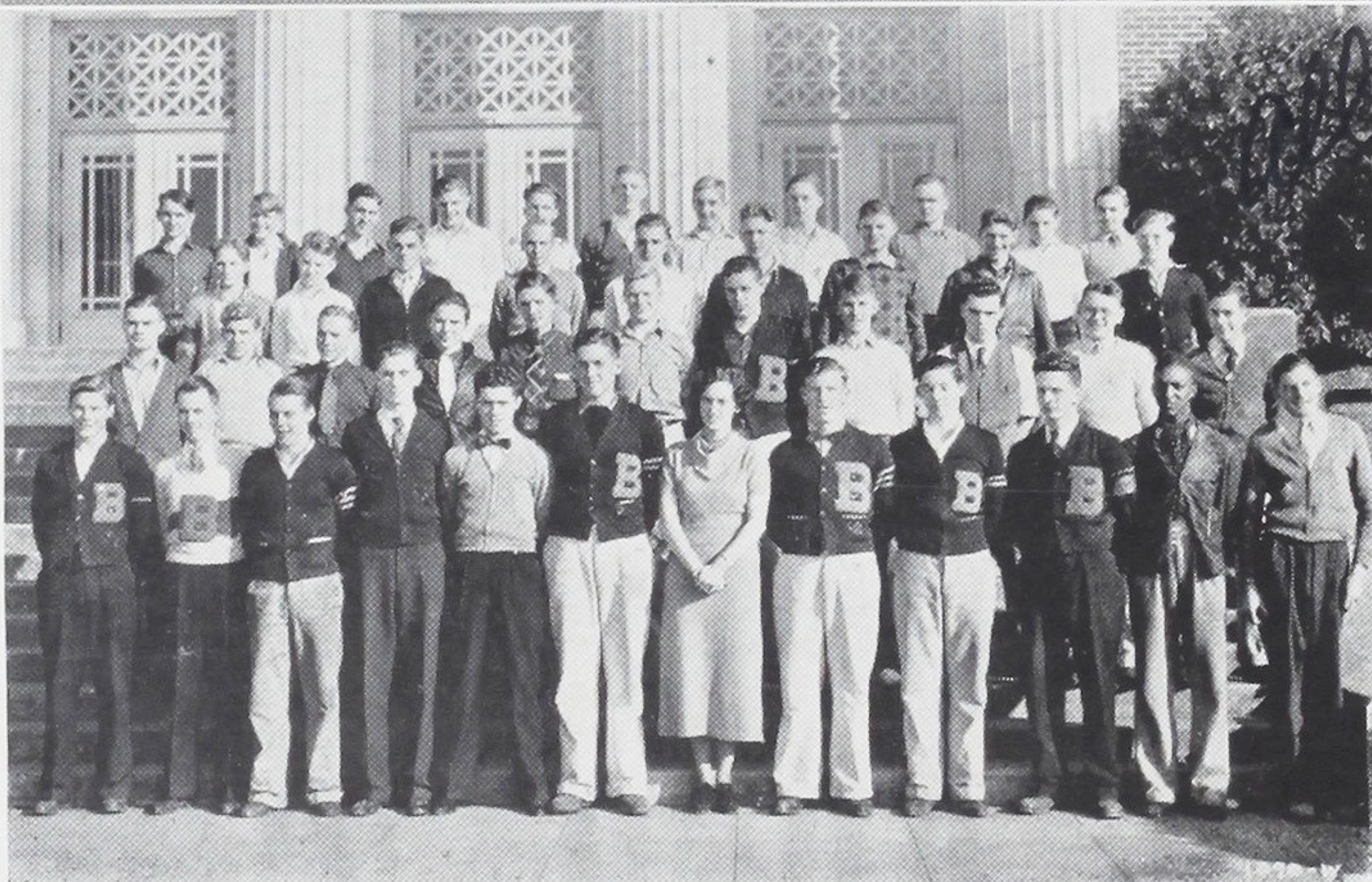


Bill Kochler

Front Row: Shilling, Dodge, Misinger, Kochler, Arata, Halverson, McKown, Reed, Arehart, Angelus, *Second Row:* Heard, Berry, Newell, Parsons, Rowe, Bleything, Donnelly, Bintliff, Sciaraffa, *Back Row:* Takayama, Fitch, Kraner, Will, Hubak, Criswell, Richards, Hinds, Famion, Olsen, Black.



Front Row: McKown, Olsen, Grassley, Miss Morrisson, Williams, Bryan. *Back Row:* Nielsen, Schreiber, Eastman, Haycock, Stearns.



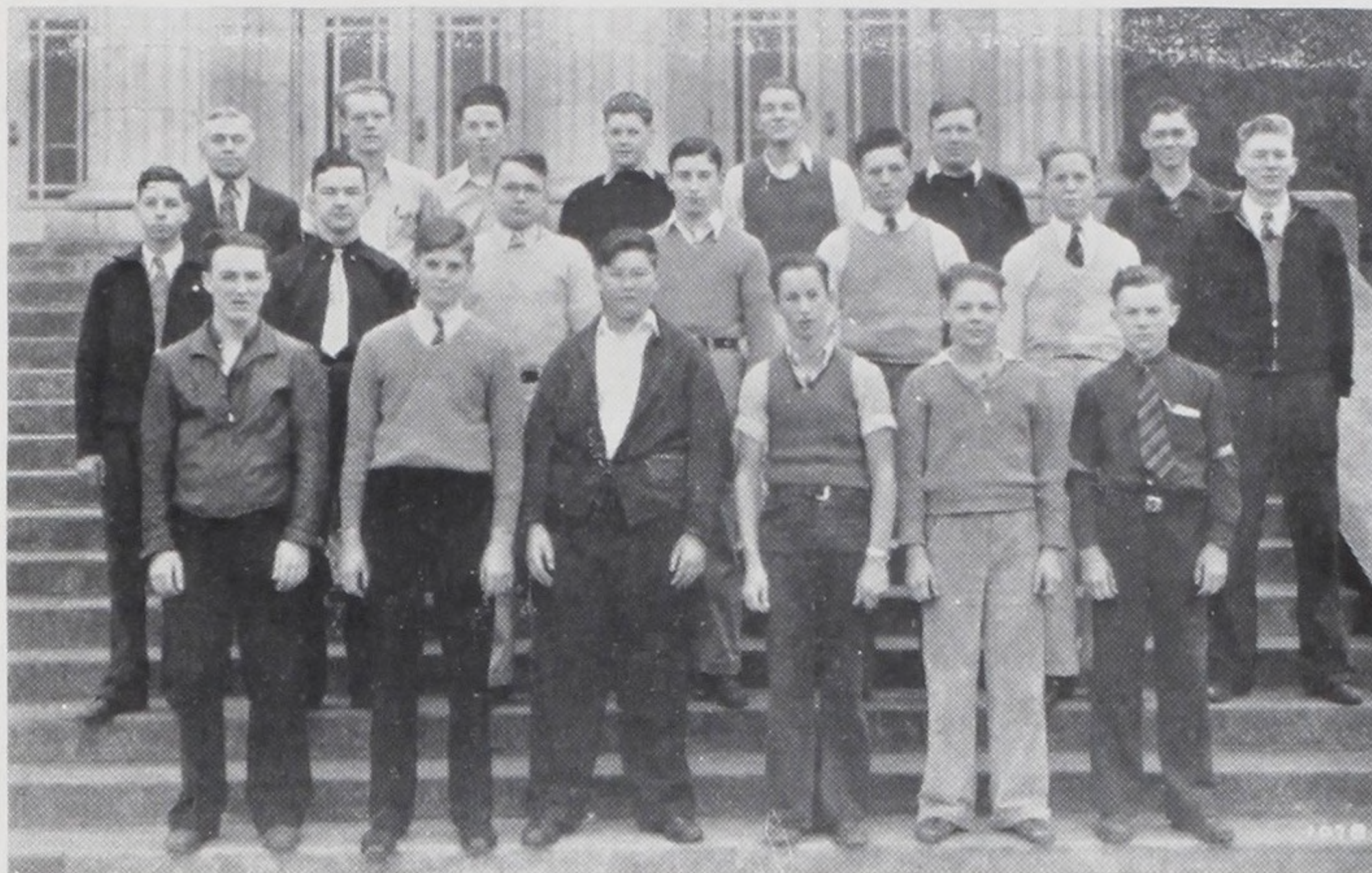
Paul Paget

Front Row: Lundberg, Williams, Nielsen, Bushman, Allen, Halverson, Miss Craig, McKown, Parsons, Schade, Mills, Peterson. *Second Row:* Wojcik, White, Bennett, Mock, Herford, Lewis, Isaacson, Donnelly, Wallace, Hoops, Battaglia. *Third Row:* Clark, Hood, Lyons, Klontz, Hanson, Bauch, Stangel, Juneck, Paget. *Back Row:* Waldt, Primmer, Young, Stone, Nelson, Storli, Fisher, Cuthric, Davis, Yevtich, Cancilla.



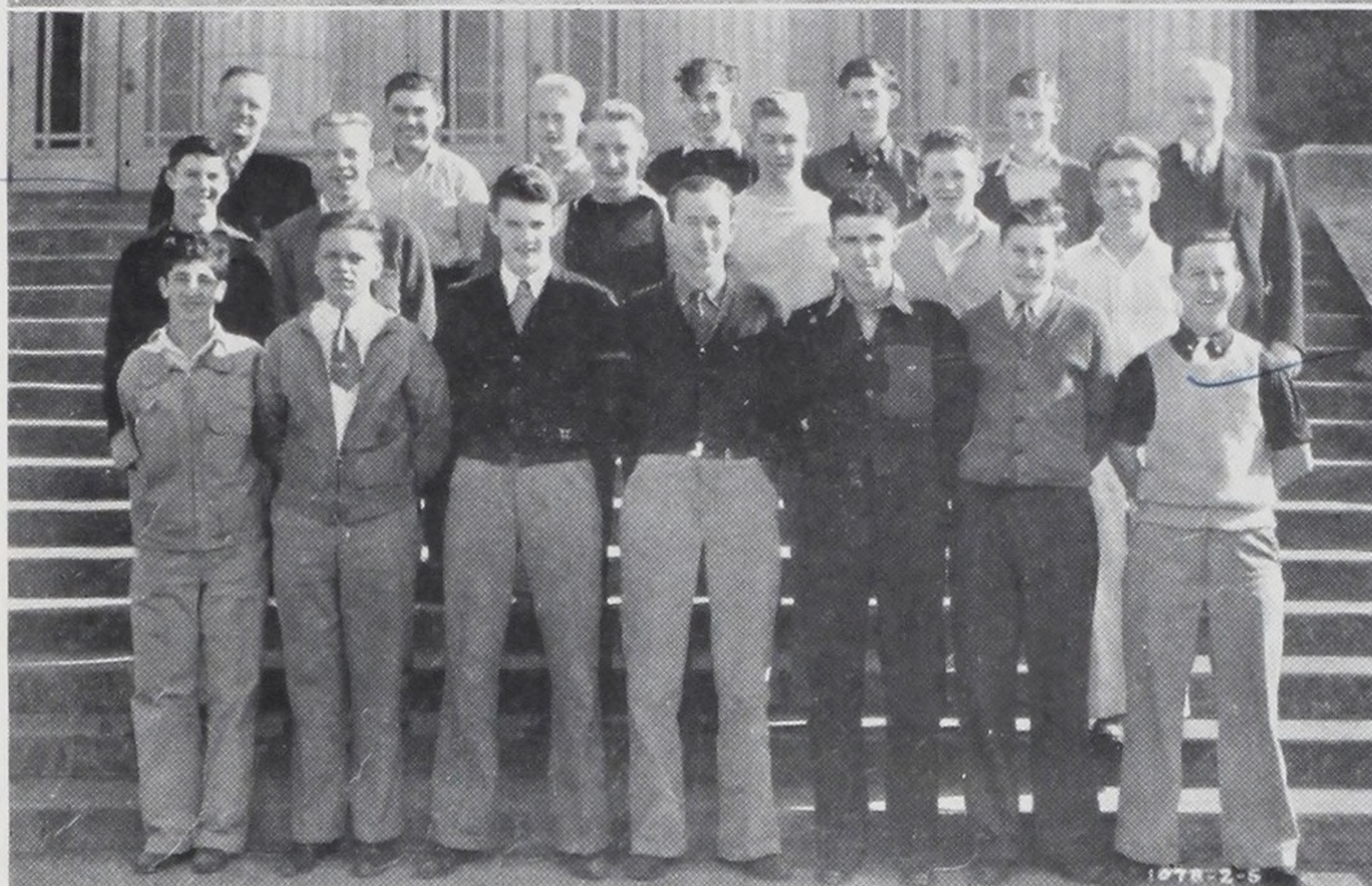
BENSON ORCHESTRA TECH PEP STAFF TROUBADOURS

Front Row: Bell, Ley, Crawford, Woody, Miner, Mackie. *Center Row:* Olsen, Weeks, Hoops, Radcliffe, Boone, Tarkildsen, Easton. *Back Row:* Mr. Ferris, Hogg-lund, Bennett, Hager, Holm, Byers, Butler.



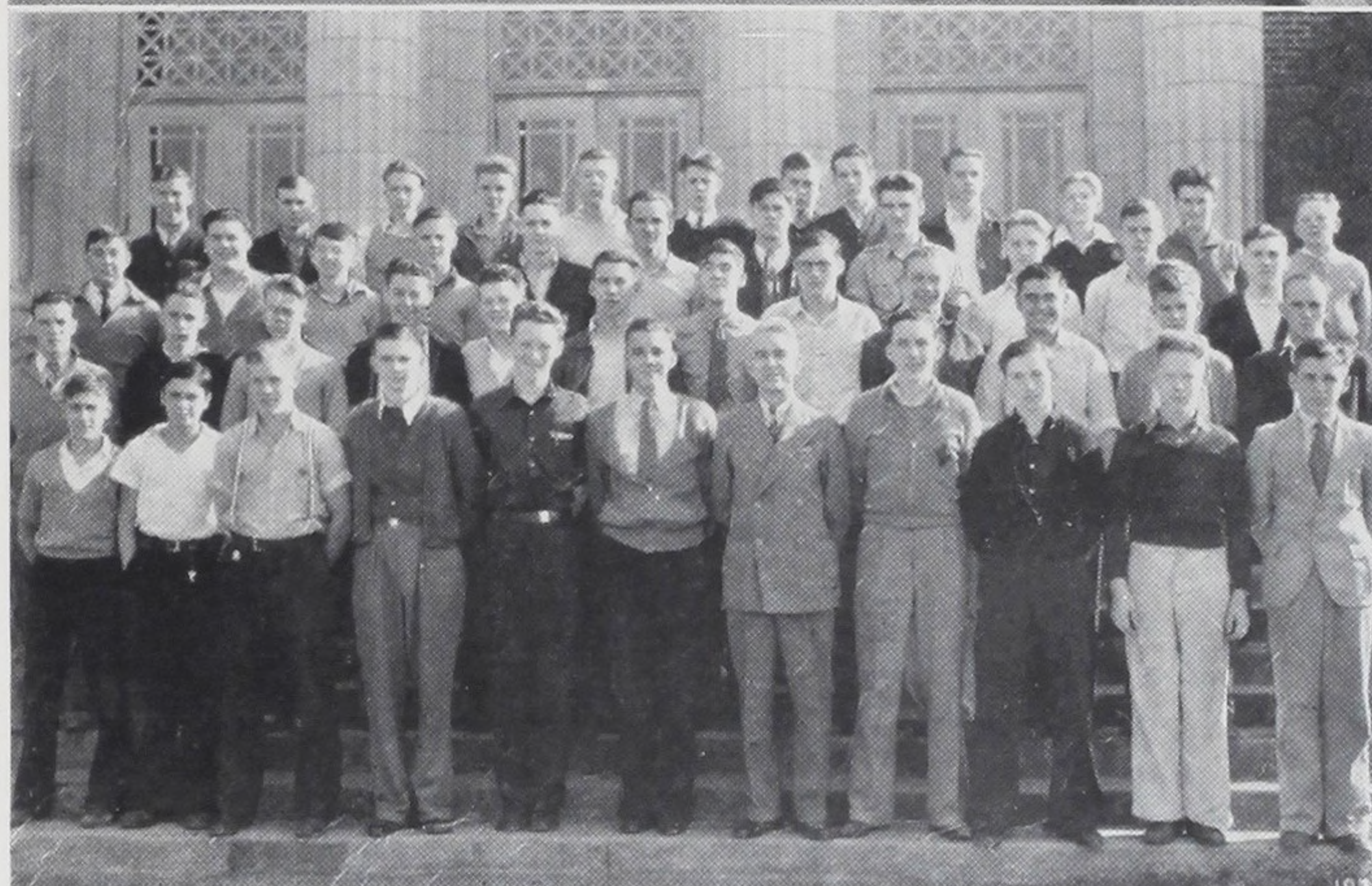
E. Scholfield

Front Row: Piha, McCann, Roys, Schreiber, Jones, Bryan, Coates. *Second Row:* Scholfield, Wilson, W., Henderson, Kullowatz, Anderson, Heard. *Back Row:* Mr. Henriksen, Avolio, Hagerman, Wilson, M., Smith, Mr. Willis.



Jerry Coates

Front Row: Cerotsky, Bull-etset, Jones, Boswell, Simpson, Hansen, Mr. Boone, Somner, Spangler, Andrews, Skei. *2nd Row:* Smith, Hines, Hyder, Crane, Anderson, Beckman, Fox, Buckbee, Denny, Avolio, Mac Neill, Bartnick. *3rd Row:* Herren, Burch, Cereghino, Kelt, Norman, Anderson, Piper, Spencer, Nyden, Hunsacker, Somner. *4th Row:* McKown, Rachford, Higgins, Lemme, Redding, Zanders, Hill, Wolfe, Hurst, Mac Kenzie, LaDue.



CLUBS

Students who come to Benson are asked to join a club. Clubs lead to friendships that remain through the entire period of their stay in school. They also give the members a chance to show their leadership and executive ability and acquaint the member with an elementary knowledge of parliamentary law. But most important, it gives the student a knowledge above and beyond the scope of his present course.

There are clubs, however, which have nothing to do with any subject in school but are of general interest in the school. Such is the Orange "B" Club which sponsors shop athletics, and the Hi-Y Club which tends to improve the actions of its members and the school in general.

AQUATIC CLUB

Swimming has long been denied the students of Portland high schools as an interscholastic sport, possibly because the high schools have no tank in which to practice. This, however, did not stop a few progressive students who started one of the newest clubs in school. They are under the advisership of Mr. B. E. Badley.

ARCHITECTURAL CLUB

This group was founded by students majoring in Architectural Drawing for the purpose of creating an interest beyond the course. Each year contests are held for the design of a specified house. The winners are displayed at the Tech Show and are a very popular exhibit. Mr. D. L. Foulkes is their faculty adviser.

AUTOMOTIVE ENGINEERS

This group, as you could probably guess, is for Automotive and Gas Engine students. It was intended to increase the interest and further education in the auto mechanic trade. At the meetings certain short-cuts and tricks of the trade are discussed which make a member better fitted for work as an auto mechanic. The club contacts certain automobile firms of the city and obtains exhibits of all the latest cars for the Tech Show. The club is advised by Mr. C. V. Badley.

AVIATION CLUB

This club is for any student of Benson who is interested in aviation or model airplane building. Model contests are held frequently and the winning ships are exhibited in the Tech Show. Prizes are awarded to the builders of the best models. The club keeps up with all the advances in airplanes, motors, and models, gathers its information and prints it weekly in the Tech Pep under the name of "Flight Log." The adviser, Mr. Bidwell, has had much experience in this line.

CAMERA CLUB

This club is very popular because it deals with a subject in which anyone is interested. If you take pictures and would like to develop them yourself, the Camera Club is the place for you. The club has all the facilities of a large developing company. Members possess a dark room, printer, developer, dryer, and an enlarging machine. Each year they put up an exhibit for the Tech Show and explain the principles of photography to the customers. The club is advised by Mr. Raisig, who recently succeeded Mr. Laney in this capacity.

CAVALIERS

Fencing has never been a sport of interscholastic competition in Portland, but a number of students who were interested in this sport started a club. It was one of the first clubs of its kind to start in the city. Originally the club held competition between its own members but as clubs in the other schools sprang up, inter-club dueling has become the vogue. The Cavaliers have long been trying to have fencing made an inter-school sport like football and soccer. Each year in the Gym they put on a fencing exhibit for the Tech Show spectators that never fails to draw a crowd. Their adviser is Mr. Strickland.



ELECTRIC CLUB

This club during the Tech Show has the most popular exhibit of any shop or club. Spectators literally trample each other to see three million volts travel thru a man and to watch sparks issue from his hair, nose, and tongue. This is the business of the Electric Club, to study and experiment with high frequency current and the X-Ray. Their adviser is Mr. Claude Brereton.

ORANGE "B"

The membership of this club is limited only to the students of Benson who have actually earned a letter in a sporting field. Besides promoting school spirit throughout the school, they sponsor intershop sports such as basketball and wrestling, and attempt to encourage attendance at the games. Their adviser is Mr. Gilbert Drynan.

OYER-UN-GON

Hiking is a very popular outdoor sport at Benson and the Oyer-Un-Gon Club was organized for that purpose. The name of Oyer-Un-Gon may sound like a college fraternity but it is truly the original name for our fair state of Oregon. Several times a year the members, sometimes augmented by the camera club, take trips to various scenes of wonder and beauty around Oregon. For Tech Show each year, the blacksmith lecture room is alive with the scent of pine forests. Forestry scenes are very popular with the customers and the members aim to please. Their adviser, an ardent camper, is Mr. Nielsen.

PUBLIC SPEAKING

For years certain persons connected with the school have been asking for a course in public speaking but, as yet, have not met with success. The Public Speaking club is the next best thing. Most of our student body officers, past and present, have been members of this organization. The members at times take over an entire assembly and give their speeches as if they have been trained for years. The members have also put on programs in the auditorium for the Tech Show. Mr. Karnopp is the faculty adviser.

RADIO CLUB

Radio is a very popular subject with the students of Benson and recently the Radio course was inaugurated. The club has a Short Wave Transmitter and receiver and attempts to teach all the members the code. Classes are held every term in sending and receiving. For the Tech Show they lay open the air waves for the use of the visitors by granting them the privilege of sending Radio-Grams free of charge to any part of the U. S. through the Amateur Radio Relay League. Their adviser is Mr. R. T. Stephens.

TYPE-HI

This club was founded by the students of the printing course for furthering the knowledge, uses, and methods of advertising. "Hello Day" tags and football "lineups," etc. are printed by this group. Mr. Willis, head of the printing department, is the adviser.

WE DRIVERS

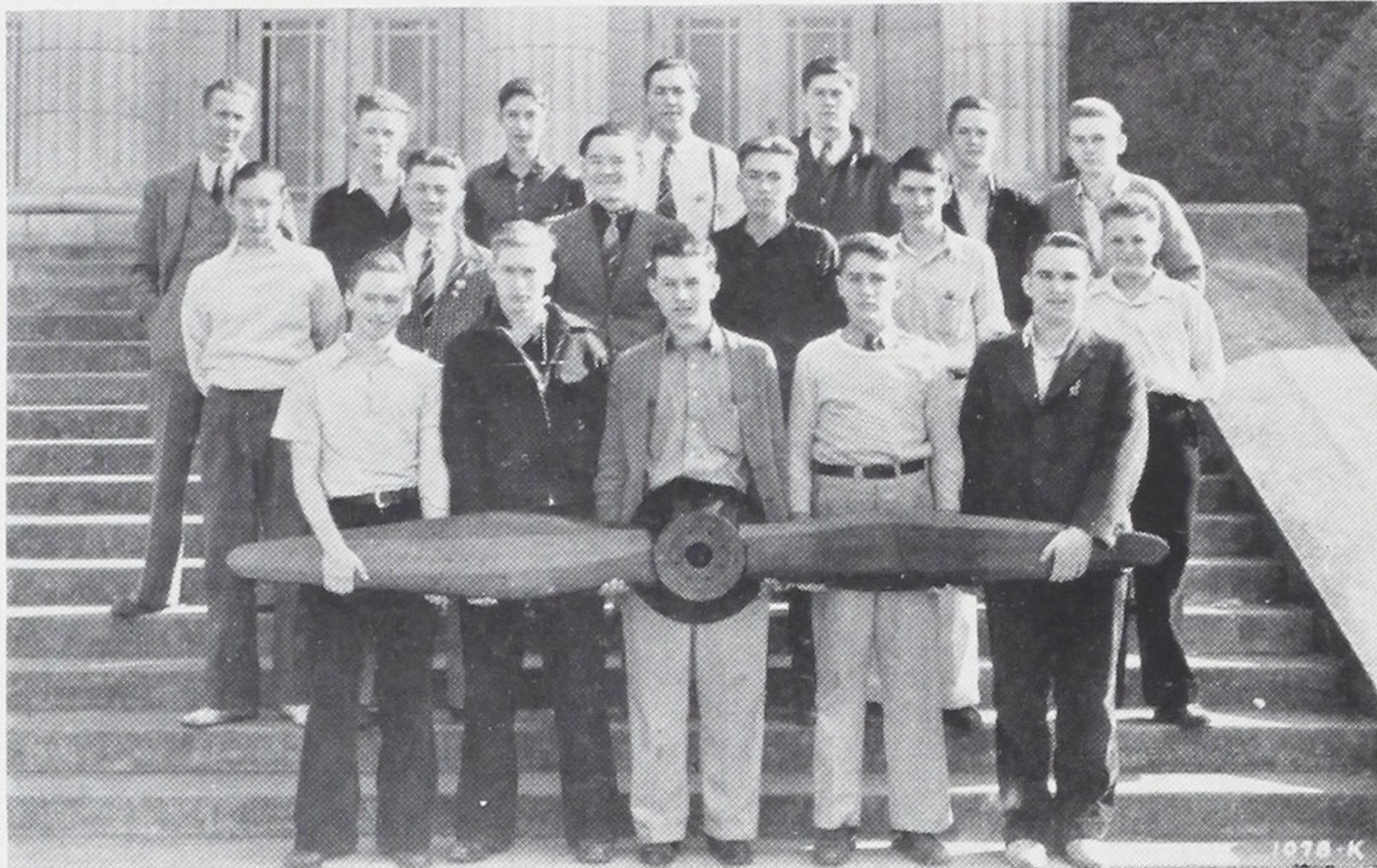
Safe driving has become a by-word with members of this club. It was started with a "bang" in 1936 by an assembly which announced the first club meeting. At present it is one of the largest clubs in school. Safety pictures are shown at some of the meetings and the police give talks on the necessity of safe driving. B. E. Badley is the adviser of this club.

HI-Y

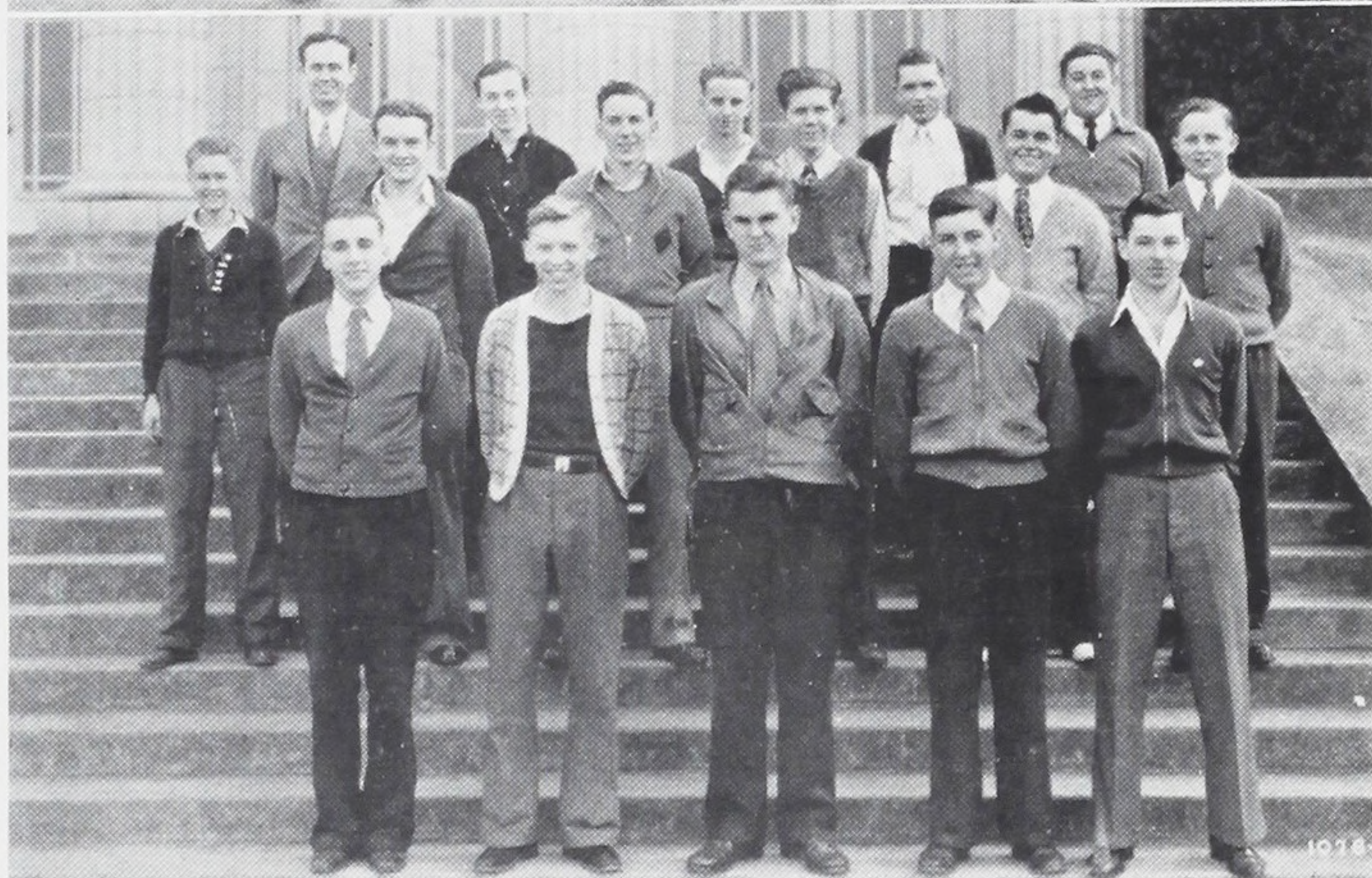
The Hi-Y is not, in reality, a school organization and their adviser is not a member of the Benson faculty, but it is one of the most active clubs in the school. It tries to build and maintain a high Christian character in the school.



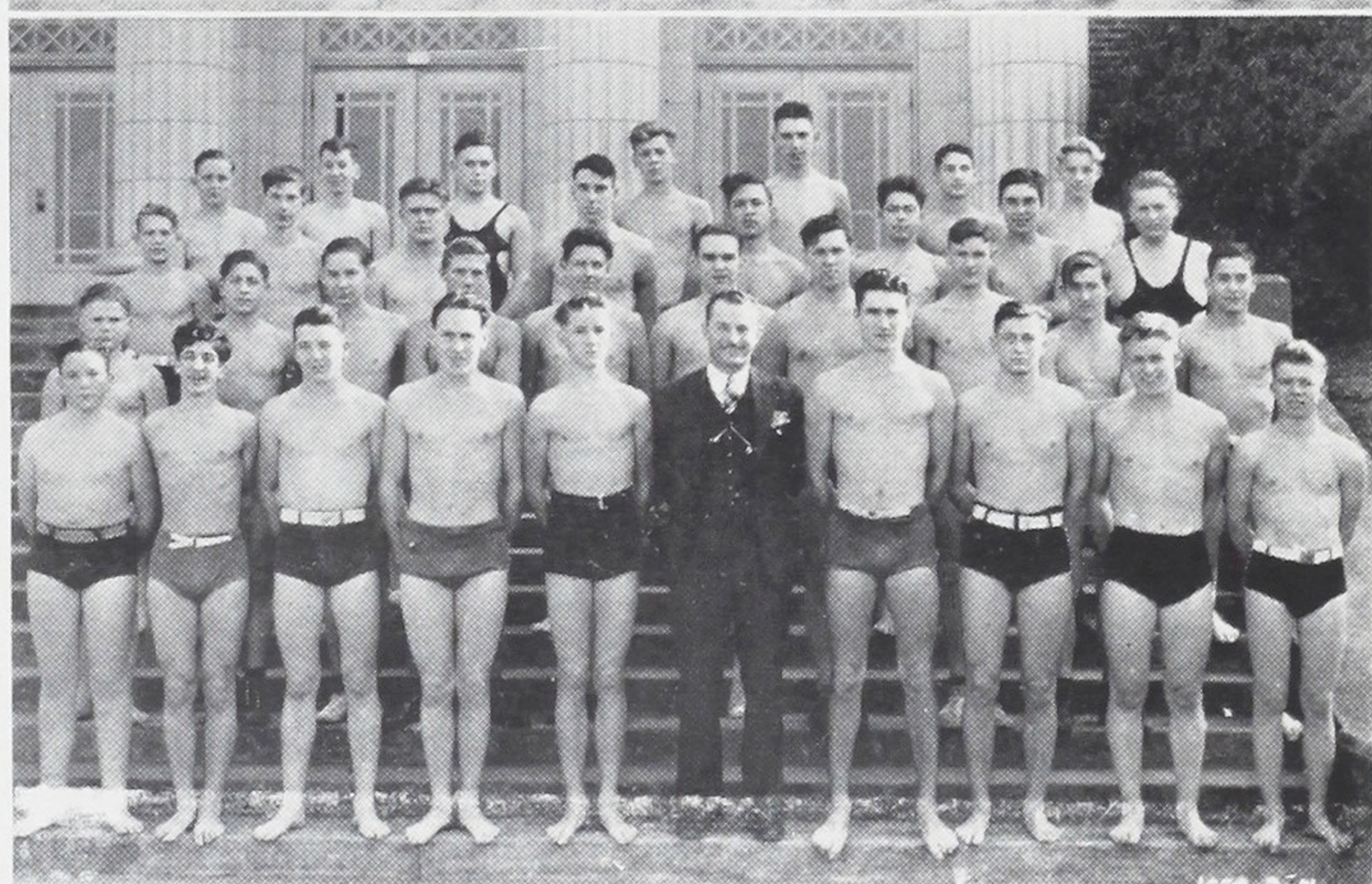
AVIATION CLUB
ARCHITECTURAL CLUB
AQUATIC CLUB



Front Row: Hilton, Van Abkoude, Harrington, Williams, Black. *Center Row:* Harvey, Ravin, Gabel, Madison, Howard, Schulze. *Back Row:* Mr. Bidwell, Holm, Johnson, Pierce, Piper, Hay, Lesker.



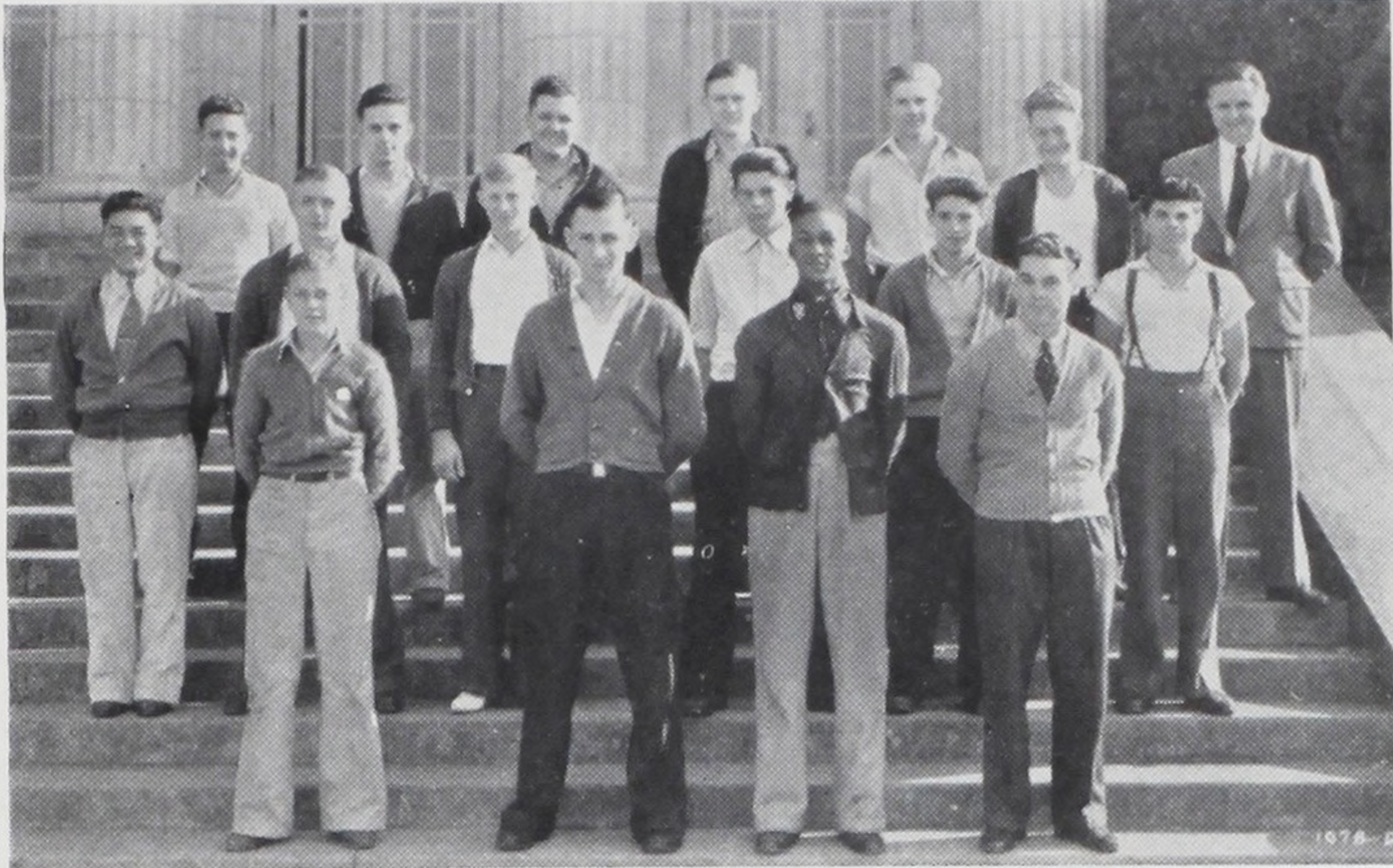
Front Row: Hansen, Lemme, Rohse, Murtaugh, Conn. *Center Row:* Maxcy, Goldman, Somner, Carloch, Lesowski, Carver. *Back Row:* Mr. Foulkes, Spengler, Henderson, Roberts, Herren.



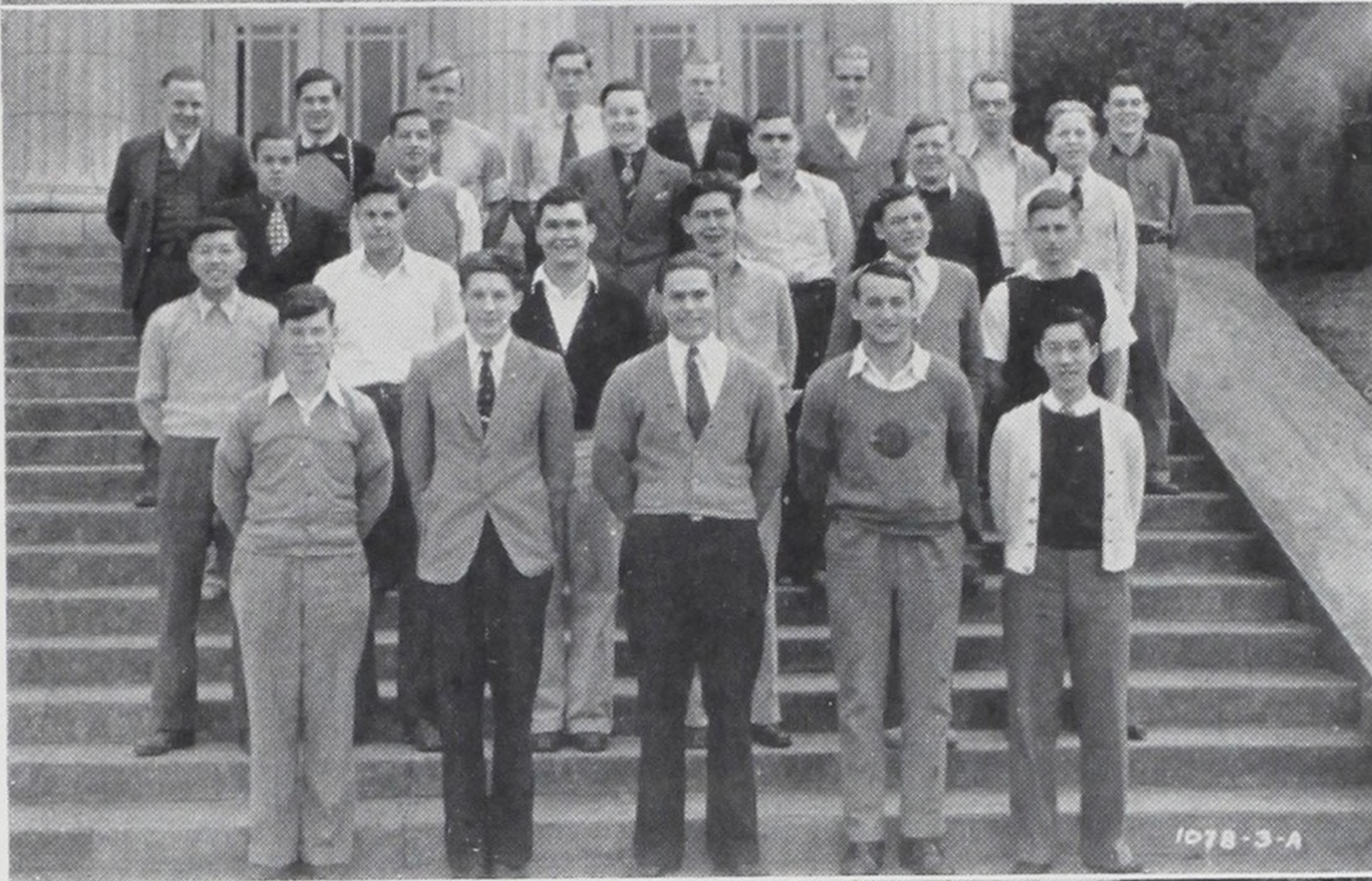
Front Row: Shiffer, Piha, Beatty, Peterson, Donnelly, Mr. B a d l e y, Williamson, Phillips, Rochat, Edwards. *2nd Row:* Stone, Schierman, Harvey, Dethloff, Patterson, Black, Brenneki, Patterson, Carty, Battaglia. *3rd Row:* Tufford, Upton, Miller, Bowen, Herrle, Roberts, Prentice, Plester. *Back Row:* Carver, Umacher, Kochler, Thomas, A r a t a, Peterson, Nyden.

AUTOMOTIVE ENGINEERS CAMERA CLUB CAVALIERS CLUB

Front Row: Wolfe, Wil-
loughby, Mills, Hunter. *Center Row:* Takayama, Beard,
Johnson, Francis, Bell, Val-
erico. *Back Row:* Chenette,
Ludu, Baker, Neil, McCann,
Napier, Mr. Badley.



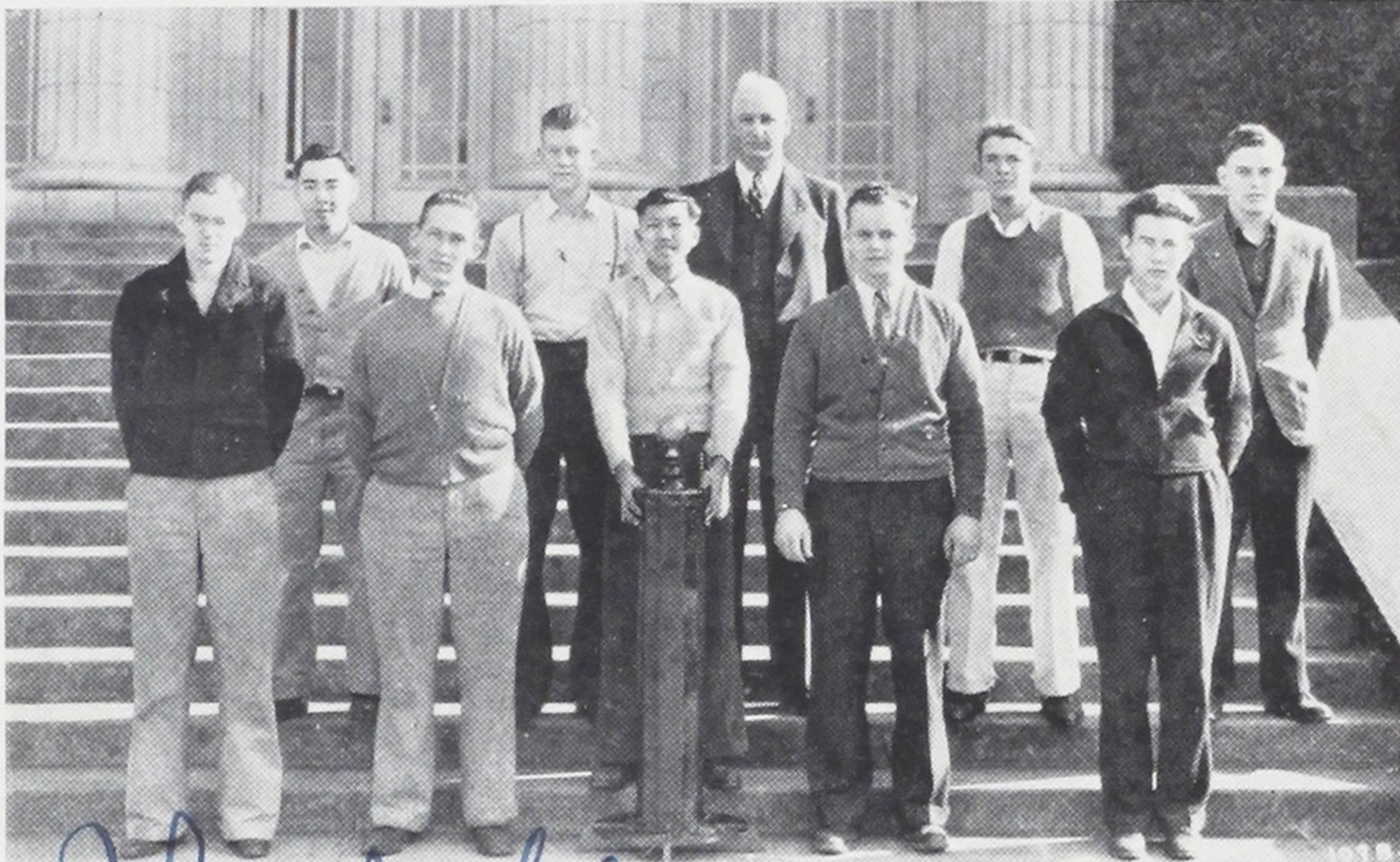
Front Row: Vosper, Wilcox,
Hay, Thiessen, Wong. *2nd Row:* Yokota, Gilbert, Cav-
agnaro, Smith, Peterson,
Hoffman. *3rd Row:* McDon-
ald, Hall, Gabel, Sterne,
Byers, Torkirdsen. *Back Row:* Mr. Laney, Block, Buf-
fun, John, Lassell, Andae-
son, Tabler.



Front Row: Ryan, Raines,
Wong, Eagle, Carlson. *Center Row:* Cassetta, Hill, Mr.
Strickland, White, Jenkins,
Olsen. *Back Row:* Spinks,
Opton, Cripe, Sahlman, Mc-
Guire.



ELECTRIC CLUB
HI-Y CLUB
ORANGE B CLUB



Bill Kochler

Front Row: Mc Gregor, Goldsmith, Yokota, Reddaway, Bridgeford. *Back Row:* Iuala, Hansen, Mr. Brereton, Holm, Kochler.



Johnny Angelus

Front Row: Kaiel, Goldsmith, Isberg, Grassley, Halverson, McKown, Nielsen, *Center Row:* Williams, English, Haycock, Schreiber, Smead, Donnelly, Arehart, Wong. *Back Row:* Abbott, Angelus, Lundberg, Allen, Marchi, Eastman, Sohler, Bobelle.



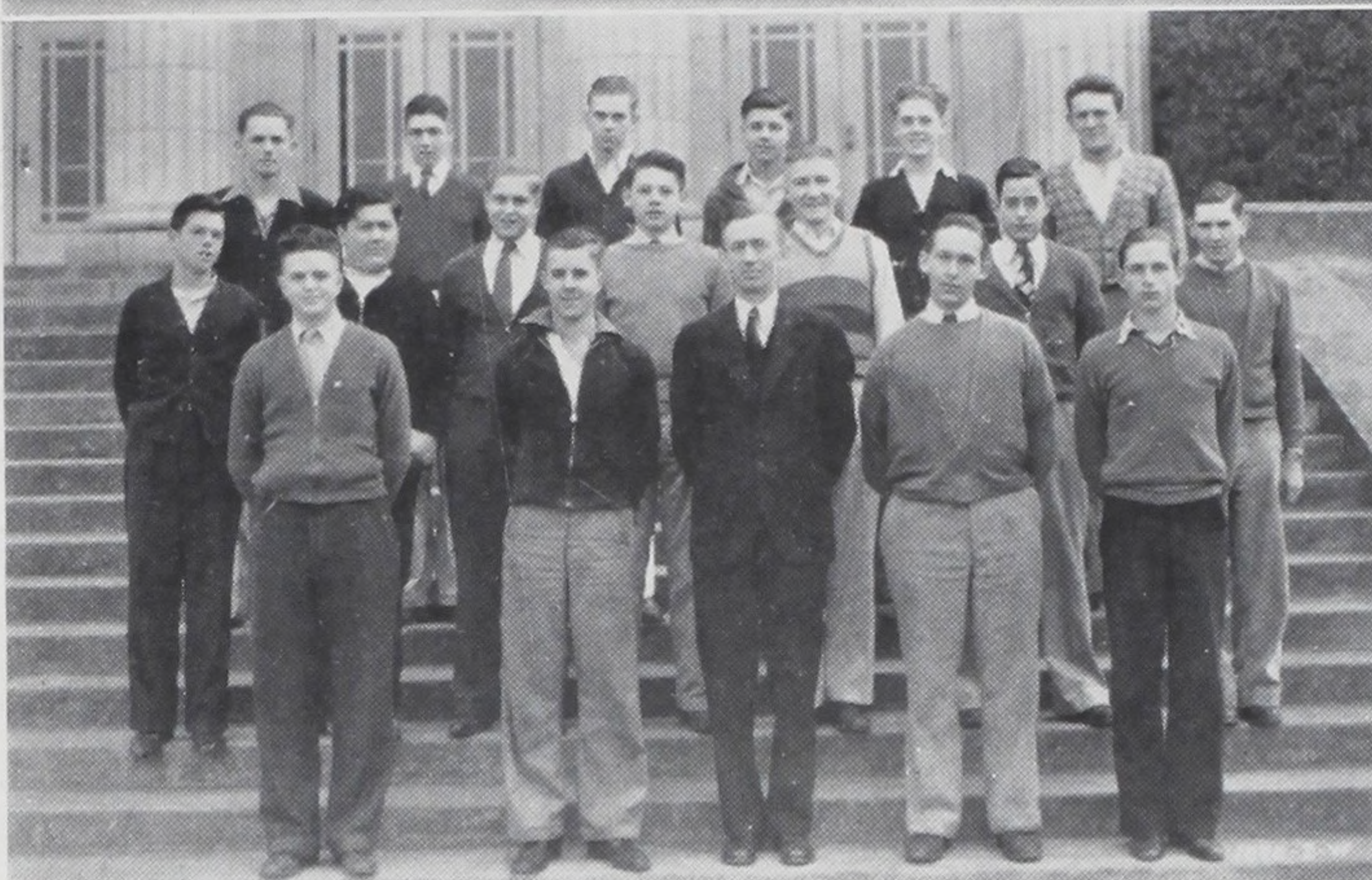
Front Row: Criswell, Roys, Isberg, Halverson, McKown, Parsons, Witke, Churchill. *2nd Row:* Arehart, Nielsen, Evans, Goldsmith, Drynan, Grimm, Kaiel, Angelus. *3rd Row:* Lundberg, Perryman, Grassley, Haycock, Buley, Isaacson, English, Millerstrom, Osipovich. *4th Row:* Kruger, McDonald, Alberty, Kari, Manning, Arata, Phillips. *Back Row:* Libke, Mann, Cavagnaro, Bobelle, Mills, Abbott, Domenico.

OYER-UN-GON CLUB
PUBLIC SPEAKING CLUB
BENSON RADIO CLUB

Front Row: Tabler, Theberath, Olsen, Love, Shiffer, Wilcox, Bridgeford. *Center Row:* Schierman, Cavagnaro, Brown, Gabel, Young, Buffun. *Back Row:* Mr. Nielsen, Fisher, Jones, Watkins, Harpe.



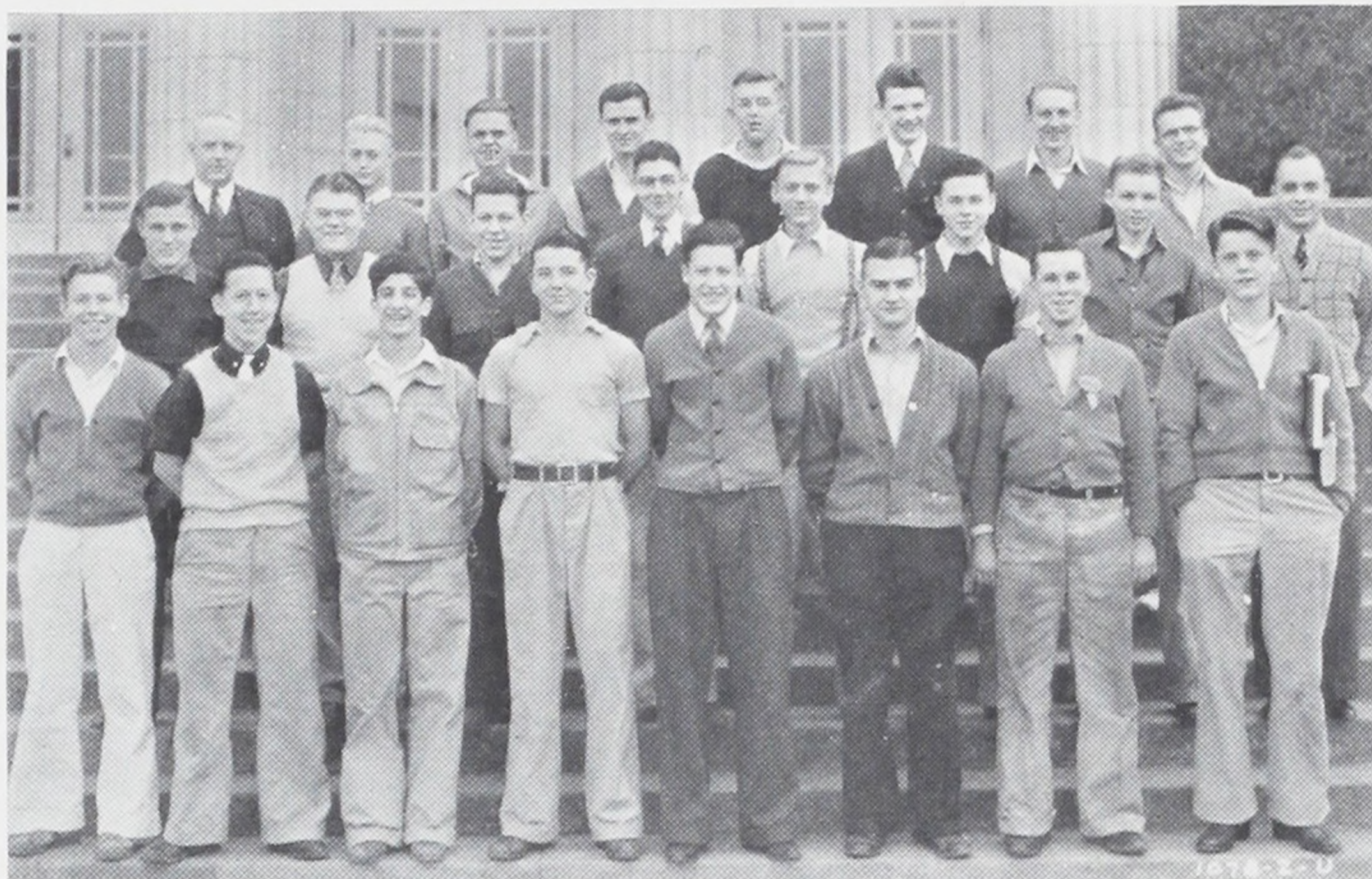
Front Row: Gensman, Robertson, Mr. Karnopp, Goldsmith, Dunn. *Center Row:* Clancy, Teresi, Christiansen, Norman, Smith, Battaglia, Jennings. *Back Row:* Sohler, Hamilton, Perkins, Patterson, White, Ugar.



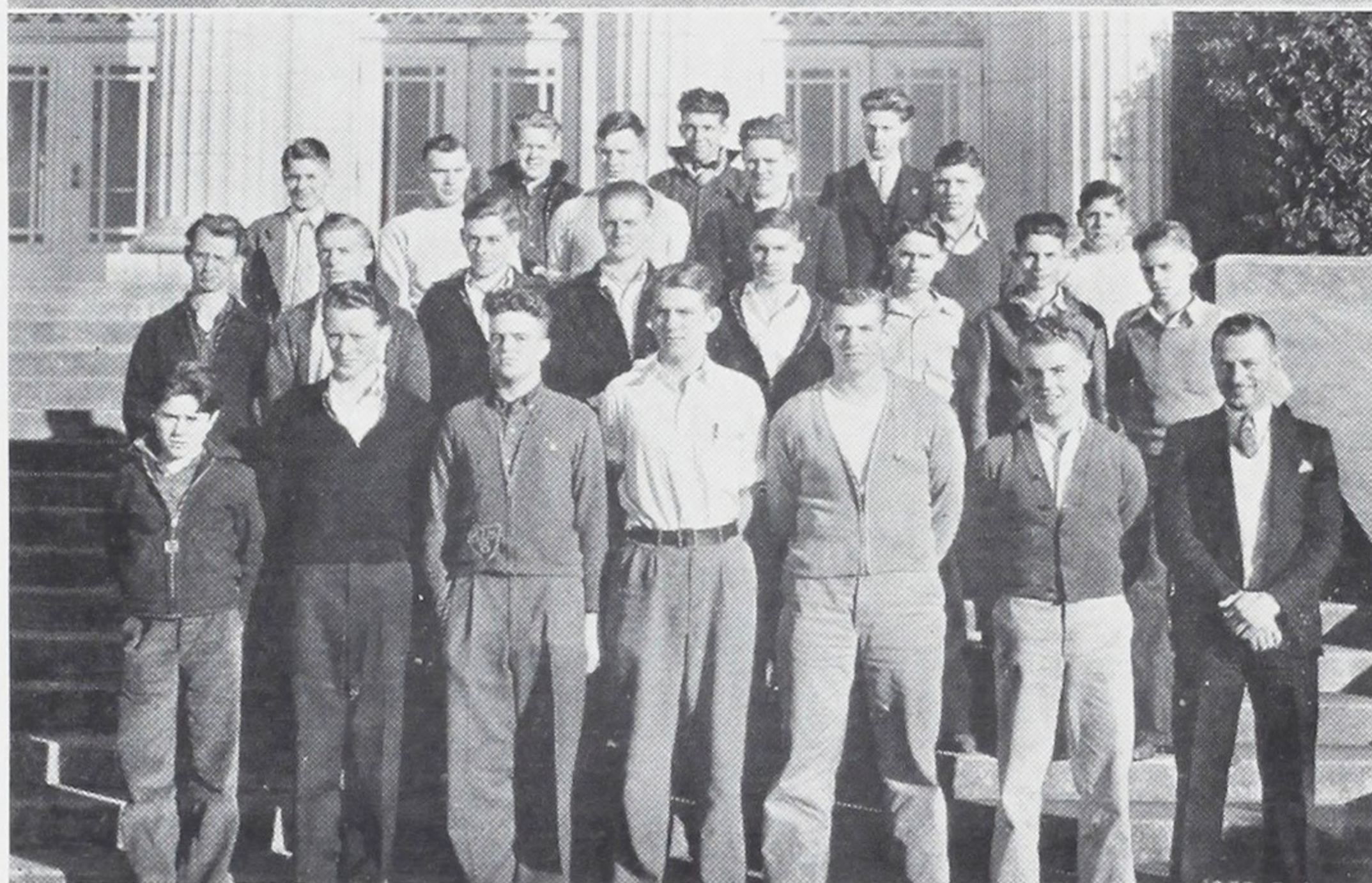
Front Row: Sandberg, Emerson, Elliott, Hipperson, Premier, Wier, Van Tussel, Bowder. *Center Row:* Nigaki, Holms, Cameron, Cate, Pearson, Davidson, Sachter, Wheeler. *Back Row:* Richards, Hansen, Lewis, Kaplan.



TYPE-HI CLUB
AND
"WE DRIVERS" CLUB



Front Row: Heard, Coates, Piha, Beatty, Bryan, Wojcik, Irwin, Hale. *Center Row:* Bohmer, Jensen, Heuer, Hamilton, Dixon, Spinks, Ballangrud, Ludwig. *Back Row:* Mr. Willis, Hagerman, McCann, Curran, Lemme, Roys, Hansen, Ellingson.



Front Row: Hopkins, Simpson, Gensman, Young, Conant, Anderson, Mr. Badley. *Second Row:* Tucker, Beard, Lyons, Vanderberg, Dodson, Harper, Allen, MacFarlane. *Third Row:* Beard, Miller, Dennis, Miller, Carter. *Back Row:* Welch, Pescasco, Jones.

Ray Jones



Sig Tully



Jay L. Phillips

First Row: Arehart, Lundberg, Isberg, Haycock, McKown, Kaiel, Kochik, Domenico, Vuseik, Riggetto
 Second Row: Coach Marineau, Mann, Sohler, Elliot, Thusen, Isaacson, White, Peters, Yochim, Badley
 Third Row: Story, Kullowatz, Manning, Marlow, Buley, Halverson, Cavagnaro, Jones, Rose
 Fourth Row: G. Goldsmith, Phillips, Haines, Tully, Preston, Roys, English, Grassley, Churchill, J. Goldsmith

BENSON FOOTBALL TEAM

Under the guidance of their new coach, Fred J. "Lefty" Marineau, the fighting Benson gridsters battled all the other teams in the league to finish in third place. The Techmen trounced a light but fighting St. Helens team by a score of 26-0 in their only pre-season game, and established themselves as a real championship contender. The St. Helens bunch fought like wildcats up until the final gun, only to be outplayed by a heavier Benson eleven.

Owing to the arrangement of the schedule the Mechanics were forced to play the mighty 1935 champion Washington team in their first league game. The Benson-Washington game was a thriller. The Tech aggregation was first to score. This was a surprise, and it so aroused the fighting hearts of the Washington lads that they fought harder. Shortly after Benson's touchdown drive the Colonials recovered a fumble on the Mechanic's thirty-two, and after a series of downs knotted up the count 6-6. In the fourth quarter it all happened. Washington blocked a Benson punt on the Tech twenty-yard stripe, and after three plays a Colonial back had the ball safely tucked under his arm and over the goal for six more points. The try for point was not good, and the score was 12-6 in favor of the champions.

With one minute and thirty-two seconds left to play it looked like a cinch victory for the husky men of Washington high, but the Benson "never die" spirit started something. After the kick-off Isberg faded back and let a pass go with everything he had, and Al Haycock, star end, caught the pigskin on the Washington six. In two plays the Techmen again had the score tied just as the final gun fired. Time had to be allotted for the try for point, and this time Isberg shot a pass into the waiting arms of Al Haycock for the winning point.

The Mechanics' next contest was with the highly-touted Jefferson Democrats, who were picked early in the season to take championship honors. The Demos were outplayed for three quarters, and it wasn't until late in the final chapter of the ball



game, when Jefferson scored on a long pass, that they were sure of victory. The score ended Jefferson 12, Benson 6.

Still smarting from the defeat at the hands of the Jefferson squad, the mighty Benson warriors took their next opponents, Lincoln, to the tune of 13-7, which still kept them in the running. The Lincoln Cardinals were outplayed all during the contest, and Benson had numerous other opportunities to score only to lose the ball on fumbles.

The Grant Generals were next to fall before the powerful Tech barrage, but this time the Mechanics really showed what they could do and romped to an easy 19-0 victory. Up until this point the "G-Men" were noted as having the toughest defense in the league, having had the least number of points scored against them.

The lowly Franklin Quakers pulled the largest upset of the season in beating the Bensonites 7-6 in a heart-breaking contest that was a real ball game all four quarters. The F. H. S. team, which had won but one game in three seasons, scored

on an intercepted pass and held the powerful Techmen to one touchdown.

Adding insult to injury, the Mechanics were again trampled upon by the spirited Roosevelt Teddies. The easy-moving Roosevelt squad completely outplayed and outclassed the Techmen, and battled to a 14-0 win. Benson's spirit seemed to be deadened by the defeat at the hands of the Franklin ites, and the Teds fairly pushed the Techmen around the gridiron.

Climaxing the season with a 7-0 victory over the Commerce Penpushers, the Benson Tech eleven galloped back to East Twelfth and Hoyt with a third place in the league standings safely tucked in the bag. The Techmen made their only score late in the second period after numerous other attempts had failed. Benson's goal was threatened only once. In the first quarter Commerce recovered a Tech fumble on the Benson twelve-yard line, but the defense of the Mechanics held like a stone wall and the green-shirted eleven was held for downs on the Benson three-yard line.

Coach Marineau proved himself a real mentor in piloting the Tech football eleven this season, and without a doubt he deserved the honor of coaching the prep league all-star team. It may now be seen how he established the record he did in Idaho by the way he made the Techmen look like champions. The Roosevelt game this year was the first time in eight years that a Marineau team has failed to score, which is quite an offensive record for any football coach. The Minnesota shift which Benson used this year was an innovation in the Portland Interscholastic league, and was interesting and spectacular from the standpoint of the spectators.

Benson players fared well in the selection of all-star teams. Isberg, Haycock, and Marlow made the Oregon Journal and News-Telegram teams, while the Oregonian placed Isberg and Haycock, giving Marlow and English places on the second squad.



Coach "Lefty" Marineau





First Row: Davis, Harriman, Newell, McIntosh, Harrington
 Second Row: Coach Badley, Buckbee, Bintliff, Davis, Maixner, Manes, Lawton, Roberts
 Third Row: Kunz, Nelson, Berry, Eckert, Trueax, Moy, Ericksen, Kanaya
 Fourth Row: Mecum, Hagerman, Kuss, Hertner, Smith

JUNIOR FOOTBALL TEAM

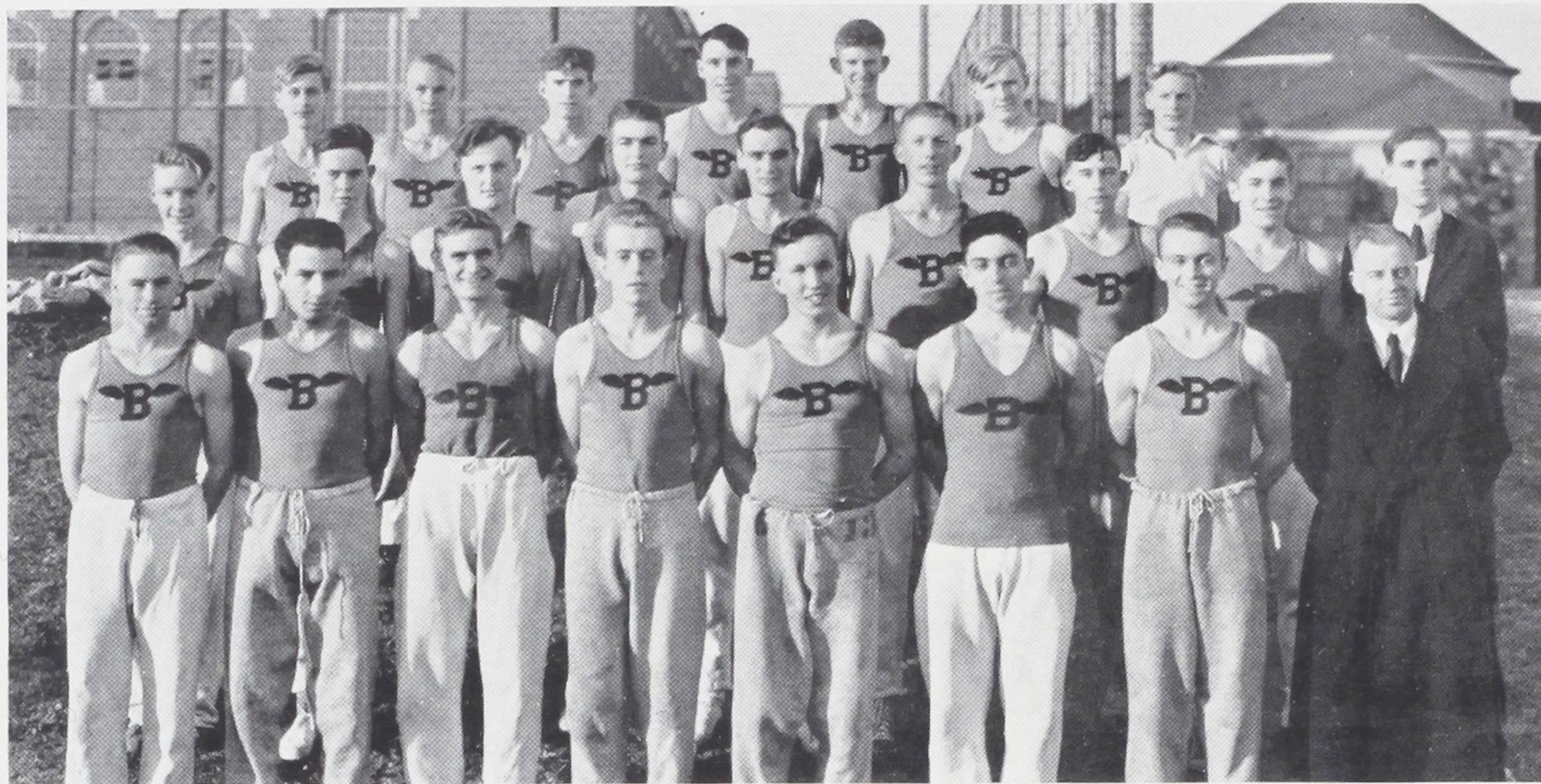
Because of the lack of material for the varsity football squad, Coach B. E. Badley was forced to give up his experienced and much-needed players to form second and third varsity teams, and had to call upon inexperienced boys to fill their positions. Although the Benson Juniors went through the season without a win, much good material was uncovered as prospects for next year's varsity team.

The Juniors followed the same form of football as the varsity but just lacked the experience to put the ball across the opponent's goal line. It may safely be said that the Junior football team is not given enough credit for the work they do in forming material for a varsity squad. Each year the Junior squad must learn the style of football taught by the varsity coach so they will have some experience when their time comes to play senior ball. Unlike some of the other high school Junior teams, the Benson Juniors are not allowed to wear letterman sweaters, and receive, as an award for playing, small monograms. As stated before, the Juniors went through the season without a win, having been beaten by such scores as 12-0, 14-0, and 6-0, but many outstanding players were developed among whom are: Buckbee, Davis, McIntosh, and Smith. The Tech Juniors should really go places next season with the experience they now have acquired, and the material brought up from the freshman squad. This year's squad showed more life and fire than any other junior team Benson has had in previous years.

Members of the Junior squad who advance to the varsity next year will be familiar with the style of play used by Coach Marineau, and, with the lettermen who return to school in the fall, Benson will have a better opportunity to go places in the football schedule of the Portland Interscholastic League in 1937.

The Freshman football squad, under Coach Gibson, had the most successful season that any first year squad has enjoyed for a long time. The team won practically every game they played, and much talent was uncovered to help make the varsity squad next year.





First Row: Hilton, Domenico, Pinkston, Cereghino, Abbott, Osipovitch, Brodigan, Coach Hargreaves
 Second Row: Peters, Simonsen, Smith, Loomis, Schrieber, Storli, Burns, Schlitt, Bushman
 Third Row: Lissy, Klontz, Chase, Bowen, Gilpen, Buffman, Litchford

CROSS COUNTRY TEAM

Coach Harry Hargreaves was unable to get his cross country squad in very good shape for the first meet of the season, because three or four of his best runners were on the football squad, and had no opportunity to practice. The harriers only competed twice prior to the state meet over the Hill Military Academy course.

The first meet of the season was held at Grant High school in which Grant, Jefferson, and Benson participated. The course of the race was in and around the school buildings. Several Benson runners lost their way, consequently losing valuable points. The meet ended with Grant in first place; Benson, second; and Jefferson, third. Bob Domenico, ace harrier of the Tech squad, was leading the pack by a nice margin, but got off the course and finished second.

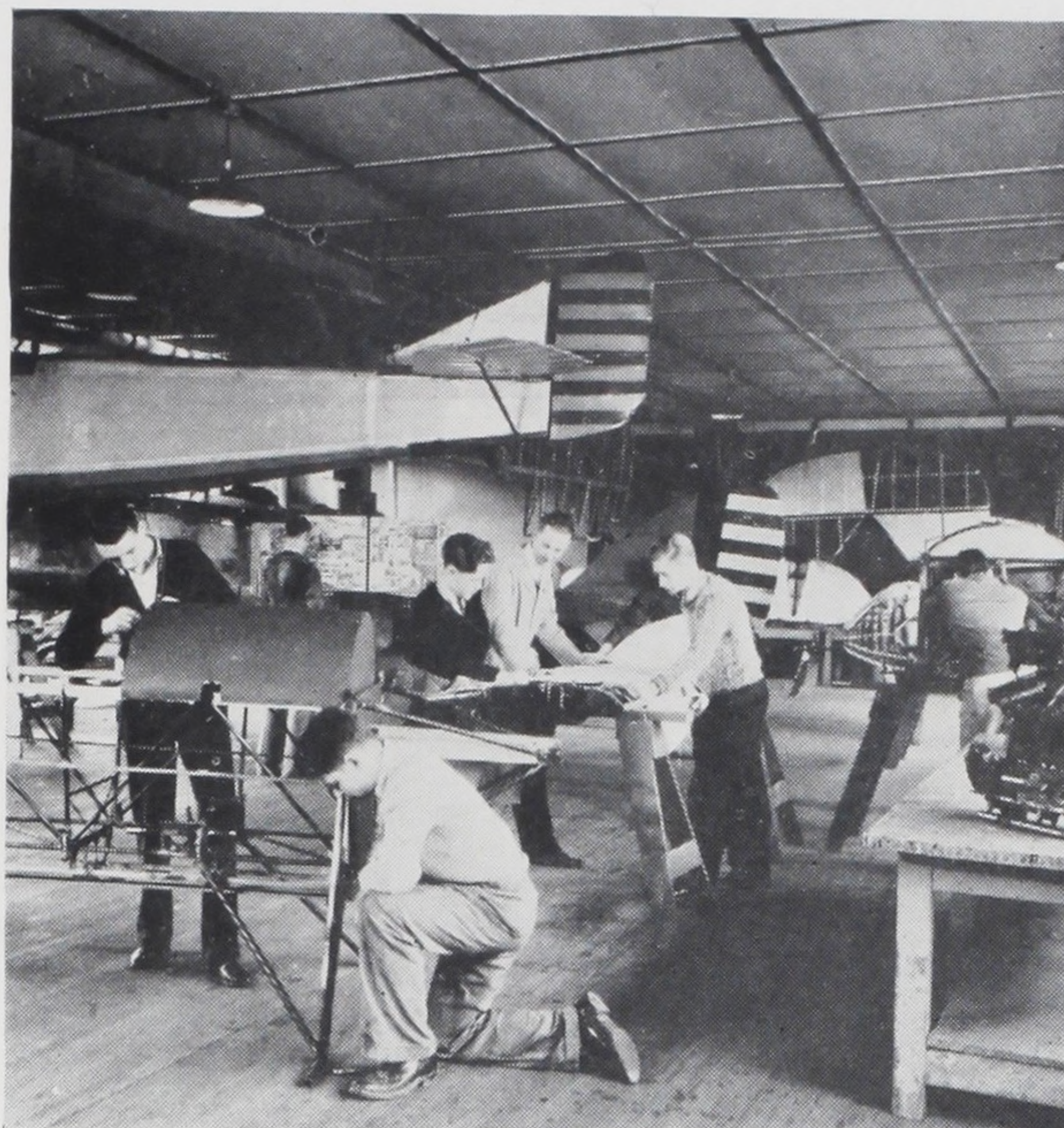
Benson won the next contest, which was run on the difficult Hill course against two strong teams, Jefferson and Hill. Bob Domenico did exceptionally well by finishing in first place. This meet established the Techs as a possible title holder, but in the state contest at Hill, Benson finished third, trailing Grant and Milwaukie by a few points. In the Junior event little Johnny Brazeau finished fifth and won a chicken for his performance. The winner received a turkey with all the trimmings.

Twelve teams entered and one hundred twenty-five harriers went to the post. The meet also featured a college race in which the fleet-footed University of Washington team finished one-two-three. An unattached runner entered the collegiate event and beat all the other college entries, but as he was entered without any colors, his record-breaking run was not counted in the scoring.

The Benson team finished marvelously well considering the fact that they had only been in two previous meets. The Benson squad will see many runners back next season, including Domenico, and Abbott, two of the Tech's best runners.

Coach Harry Hargreaves deserves a great deal of the credit for the fine showing his cross country teams make each year, and Benson is indeed fortunate to have a track mentor of his caliber.





AVIATION SHOP

One of the most popular courses given in Benson is the Aviation course. The course does not give actual flying instruction, but it gives the student a thorough understanding of the fundamentals of the theory and practice of flying. This is a good foundation for the student who plans to be a pilot or plane mechanic.

The equipment is of the very finest, making it possible to construct a full size airplane complete in every detail. In fact, this has actually been done several times, and, although there is a federal law preventing the actual flying of these planes, the students get first hand experience in the construction of aircraft.

During the first term, the student spends all of his time in shop on class work, studying the principles of flight and aerodynamics. When he comes to his second term he is introduced to real shop work, where construction of airplanes, wings, fuselage, and so on, is taken up.

Third term shopwork is the studying of aircraft motors, their construction, and repair. The fourth term is given over to the study of carburetion and motors.

Fifth term work is the study of aviation lighting and ignition. The sixth is meteorology and navigation, its bearing on navigation, and the navigation of aircraft. The seventh term takes up the study of airplane instruments and radio. When the student studies radio in the aviation course, he gets a good working knowledge of code and the fundamentals of radio communication.

A total of seven terms of aviation shopwork is necessary for graduation, but the student may, if he wishes, take an eighth term, advanced shop. Here the student gets a knowledge of advanced rigging, test stand, and inspection. He also spends some time in familiarizing himself with the Department of Commerce rules and specifications.





ELECTRIC SHOP

When the student first enters the Electric shop, he must acquaint himself with the wiring department of the shop. In this department he receives instruction in the elementary branches of wiring. This includes light wiring, telephone wiring, and most important of all, instruction in splicing, soldering, and taping of electrical conductors.

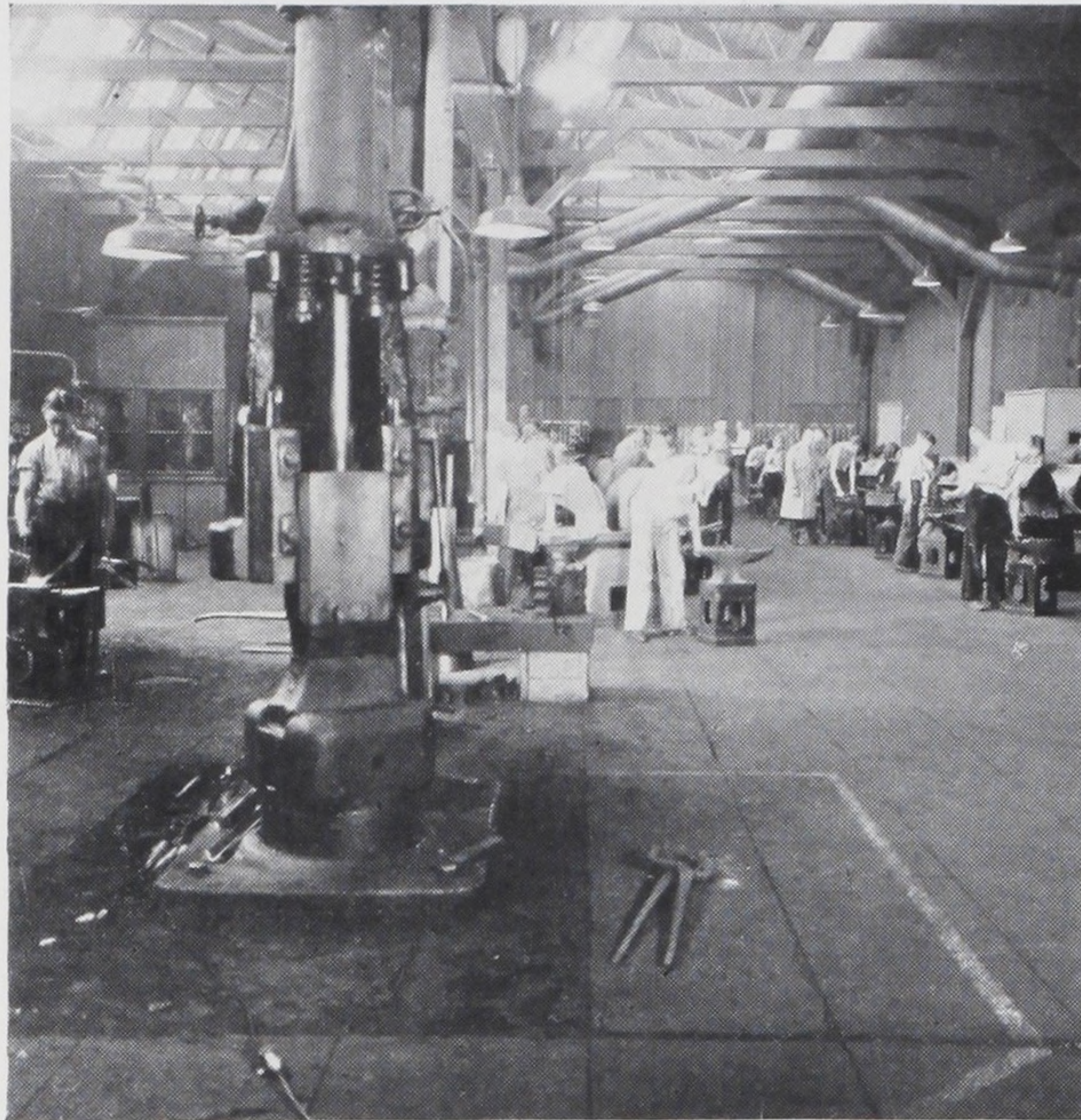
During his second term, the would-be electrician goes into what is perhaps the most important department. In this department, he is required to wire a life-sized model of a section of a building according to the specifications of the city code. He also learns the wiring and servicing of houses, apartments, and industrial buildings. Another part of this department covers the calculating of costs and the computing of sizes of fuses, wire, and conduit. Work on flexible steel conduit is also covered.

The student then advances to the real electrical work which lies in studying direct current controllers and armature winding for D.C. motors. This is very interesting work as the student must trace out a diagram from the controller and after making a neat finished diagram of the connections, he must hook up the controller to operate a motor. All the latest type controllers are used.

The student spends some time in the machine department. This department contains lathes, drill presses, shapers, grinders, and various other machines. In this department is done most of the machining, woodworking, winding, and grinding incident to a commercial electric shop.

The last term is spent in studying alternating current motors and controllers. This is by far the most difficult work the electric student is called upon to tackle. The course enables the graduate to enter the trade as an advanced apprentice with a distinct advantage over the ordinary high school graduate.





FORGE SHOP

The Forge shop makes all the forgings required by the school. Every first term student must keep a notebook which deals with the theory of forging, and the composition, making, and use of different alloys. The beginner first learns to make and use a small, hot fire in heating the metal to be forged. The first piece of metal given to the student is a three-quarter-inch round bar of machine steel. This metal is "drawn out" to form a nine-sixteenth-inch square bar, usually seven or eight inches long. In "drawing out," the metal is heated to a bright red heat in the forge, grasped by one end with tongs in the worker's left hand, held across the anvil and hammered into the required shape. The nine-sixteenth square bar is then "drawn out" to five-eighths octagon and it in turn to a nine-sixteenth hexagon and finally to a three-eighths round bar which is about ten inches long. This round bar is bent first into a round ring, then into a clevis, and finally made into a lap-welded link.

Then the student who has worked for a month or more on the same piece of steel, is given a second piece which he "draws out" to a one-quarter by three-quarter-inch strip, about ten inches long. This piece of "strap iron" is made first into a "two-by-four" clamp, then bent to form two clamps for a three-inch pipe. One of these clamps is made into a gate-hook, while the other one is made into two staples for the hook.

The next forging to which the boys put their efforts is a half-inch solid hexagon head bolt with a nut tapped to fit. The next exercise is a welded ring and a grab-hook joined by two links.

The following hand tools are then made and tempered: Two punches, draw chisel, cape chisel, and a flat cold chisel. Facing, parting, inside boring, centering, and diamond-point lathe tools are made and tempered to stand up under regular machine shop use.





FOUNDRY SHOP

The Foundry course is an important and valuable one, not only to the student who intends to major in foundry work but also to the Tech student who may major in other shops.

The question has often been asked by technical students and parents, "Of what value are these minor shops to the student who majors in an altogether different shop." It is rather difficult for a person who is not acquainted with the system of the school to understand, at first thought, what connection foundry work has to do with a course such as electrical engineering. There is a close connection, however.

A student enters the Foundry for the first time and sees piles of sand, shovels, and a great many unknown tools and apparatus. In due time he is taught the use of these various things. How to make the simpler molds, how the metals are melted and poured, and many other tricks of the foundry are taught him.

But this is not all nor yet is it the most important. Along with this work, which naturally appeals to the boys, are taught the deeper things which are of so much value in later engineering work. As he makes the mold, he is taught about the shrinkage of metals, how to calculate the weight and volume of a casting, what defects are common in cast pieces and the causes of these defects and where to look for them.

Then when it is time to cast and he sees the iron being melted at a white heat in the cupola, or the softer metals being melted in the gas furnaces, the student learns of the different qualities of iron and steel and how they are formed.

In short, it is the aim of the foundry department not to give the technical who takes but one term of foundry work the training of an expert foundryman, but to teach him those things in foundry work which are of value in later work in any branch of engineering.





GAS ENGINE SHOP

The first term technical Gas Engine student works in the Foundry. The second term he spends in the Pattern shop making four different models. The third term is spent in the Machine and Blacksmith shops. The fourth term technical student then takes Sheet Metal and gets his first term in the Gas Engine shop.

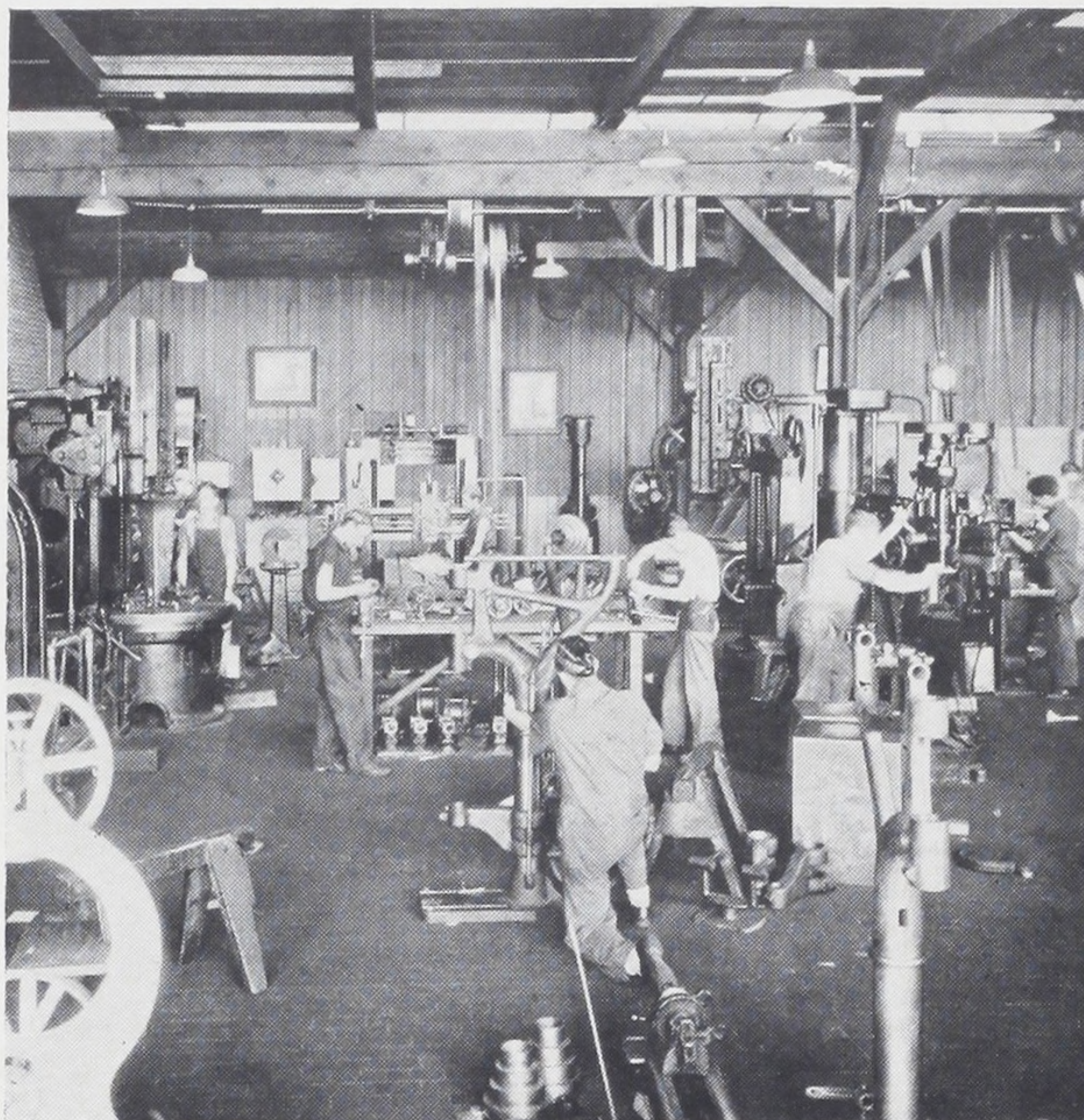
The beginning classes are given instruction in vulcanizing. When the student has learned this well enough, he starts learning the parts of the complete front end assembly, the mechanism of the clutch, transmission, differentials, and rear axle. The students must learn to place each part correctly and accurately. The next thing the student must study is carburetion. One term's work deals with this alone. Carburetion is very important, and few mechanics understand this subject thoroughly. The work includes the study of fuel pumps, filters, and vacuum tanks.

Another term is spent studying the electrical parts of the car. The first thing studied is the starting mechanism. The student then starts studying the lighting and ignition system. The battery room is supplied with all the necessary equipment for this kind of work. Outside jobs are given to the student to acquaint him with the practical end of the trade he is going to follow. Late model cars are brought in the shop and repaired.

The last two terms consist mostly of a more advanced type of work. This is to train the student so that his experience in future commercial work will be a continuation of his school practice.

The class room work is an important adjunct to his curriculum. The instructors give weekly lectures on different phases of the work. The beginner is given class room work two days a week. This balancing of the program assures to the student entering this shop a complete and thorough knowledge of the practical as well as the technical and theoretical sides of the gas engine trade.





MACHINE SHOP

Machine shop practice is required for the Technical Mechanical, Aviation, Electrical and Automotive courses, and in Vocational Printing Press, Automotive, and Machine courses. The length of time spent by the student and the variety of his experience depend upon his course. The aim is to give breadth of experience rather than to develop skill in any particular phase of the work.

The beginner is given a block which he must chip and file. The block must be filed square, and also must be filed accurately. When the student has his block filed he lays it out for drilling. Before doing this he must work some problems on drill speeds. The next thing to be accomplished is tapping. He then advances to tool grinding. The tools to be ground are: roughing, roundnose, cornering, square-nose, boring, U. S. S. threading, and right-hand facing tools. He then has two templates to work on.

Next comes lathe work. This includes exercises on accuracy, thread cutting, and the various phases of compound gearing and work associated with the lathe. The lathe is one of the most useful and common machines found in connection with machine work. All work must be made to pass rigid inspection.

The student next turns his attention to the intricacies of the shaper. This machine is used in finishing flat surfaces and requires more skill and care in manipulation than does the lathe or drill press.

The student is advanced to the tool-making department if he passes the other departments with good grades. The tool-making department accomplishes some very important work in the course of the year's study. Many small tools have been made and innumerable small fixtures have been turned out. The students in the tool-making department make hammers, tools for lathes, chisels for the wood shop, and many other things.





PLUMBING SHOP

First term students in the Plumbing shop are taught the workings and uses of fittings and tools. When these are thoroughly mastered, the boys are taught the art of pipe-cutting and threading. They make a two-foot square out of half-inch pipe which is subjected to a test of sixty pounds pressure.

Students from the second term up learn to set fixtures, wipe joints on lead pipes, and estimate and work on blueprints. Estimating is an important accomplishment to the plumber, because to be a success, he must be able to gage a job very closely. If he overestimates, he is liable to lose the job to a competitor. If he underestimates, he loses money.

The architects must also learn the more important things in plumbing. They must learn pipe-threading and cutting, and soldering and pipe calking. The plumber learns splicing and soldering in the Electric shop, as nearly every cable or wire that is used in the trade is lead coated.

The Plumbing shop has two regular size floors, but by reducing the scale of the plan, plumbing may be put up for buildings as large as eight stories.

Along with the practical work, the student must take much theoretical work. This includes the uses of traps, the seal of the trap, the sizes and depths of the seal, the connections of a range or furnace, the different ways of setting the different types of fixtures, the many ways of ventilating, the study of pumps and rims, the different ways of heating, and many similar subjects.

The shop contains steel tables, gas burners, and necessary tools for lead work and joint wiping. There are two air-gas torches for melting out caked joints. There are also three large wood benches, having over twenty vises, where boys learn thread-cutting and pipe-fitting. There is a large motor-driven pipe threading machine, and every variety of hand tool necessary for all kinds of plumbing work.





PRINT SHOP

There are three courses a printing student may take. They are Technical printing, Vocational printing, and Vocational printing press. The technical and vocational printing student starts by cleaning cases. In doing this, they learn where each letter and punctuation mark are located. After he has finished cleaning the case, the student starts his first lesson. There are fifty-four of these lessons. They are instructions on printing, spacing, and general shop work. After finishing these, there are several simple border designs to worry over. The Vocational student usually spends one term on this work while the Technical student spends two terms.

Students are then promoted to the advanced composing department. In this department, they work on I. T. U. lessons. These lessons were just introduced this term. They study these lessons, and answer questions in the back of the book. After finishing these, they take a test on the questions and do exercises. The Vocational student spends the rest of his three years here. The technical student spends four terms here and then goes to the press department where he learns the fundamentals of press feeding and putting jobs on a press. He spends one term here and then goes to the linotype department. The student spends three terms in this department.

The student who takes Vocational Press first learns how to feed a press. Safety-first methods are taught before actual work begins. He learns the correct position to stand at a press. He next learns the parts of the press, all the oil holes, and how to ink a press. The student takes a test every two weeks about presswork. He is given problems on estimating costs of printing jobs. He also learns how to feed a cylinder press. The sixth term the presswork student takes Machine work.

The students in the Print shop write all the articles in The Tech Pep. The Tech Pep is set up in the linotype department and printed in the press department.





SHEET METAL SHOP

The freshmen students first learn to solder sheet metal. They learn the properties and uses of tools. When this is mastered, they have harder exercises to do. They make many simpler patterns which help them in their later work. They make pipes, fittings, bowls, funnels, and many other things.

The student learns sheet metal pattern drafting, the various kinds of sheet metal and alloys. He gets skill in the various hand tools and machines, and develops his judgment in their use and care. He learns to make the different types of seams, and to rivet.

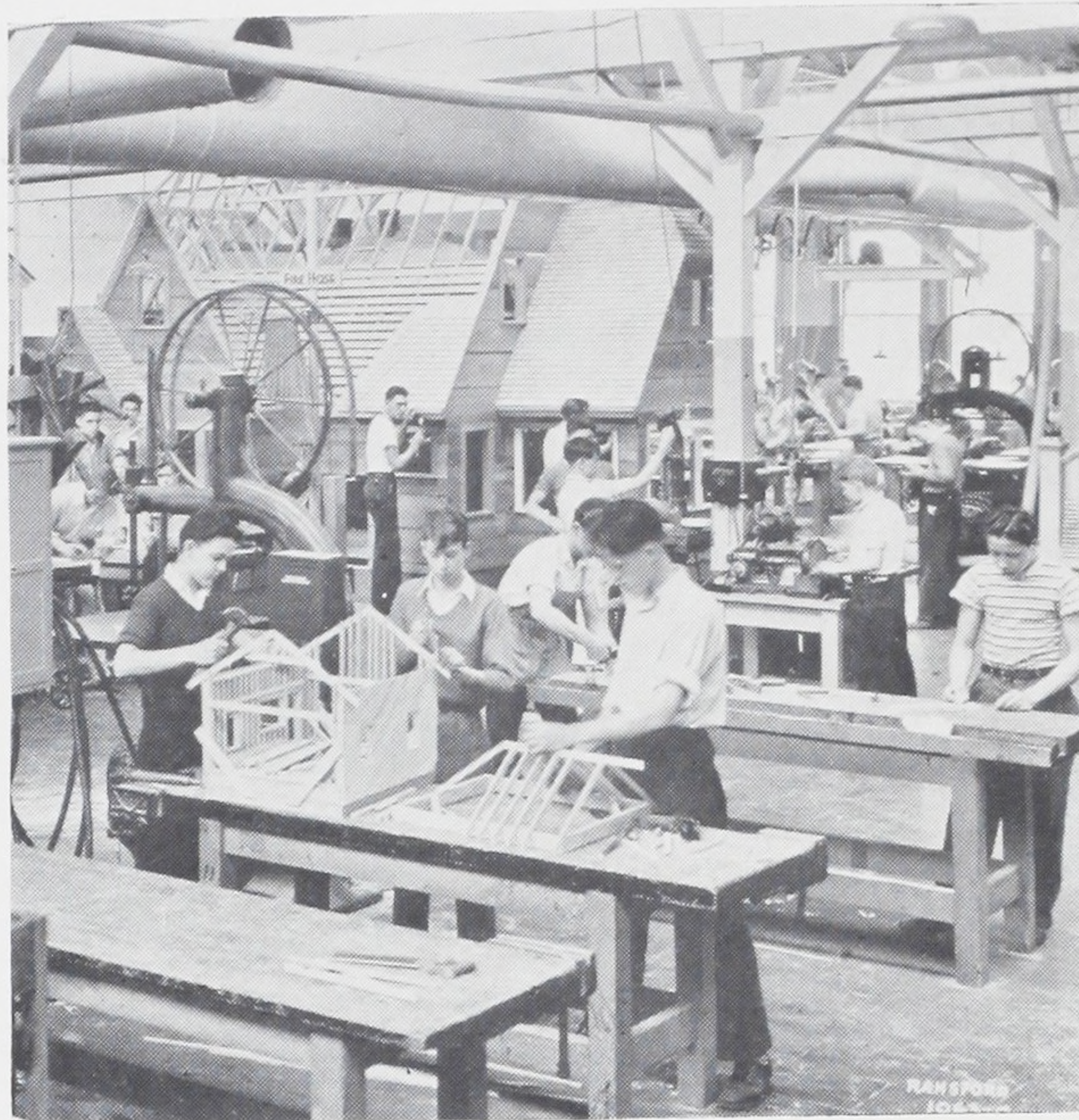
The third year the student studies problems in ventilating and furnace heating. He is given practical work in mensuration for sheet metal workers. He takes up coppersmith and art metal. The students learn brazing and oxy-acetylene welding.

Most of the students in the shop are majoring, but the gas engine students spend one term in here and drawing students a half term to great advantage.

Lectures and written work are given the boys so that they can figure on any type of work. The sheet metal trade is important. One realizes it when he recalls that the ventilation system in our school is made of sheet metal. When anything goes wrong with any of this system, boys from the sheet metal shop repair the break. During the summer and part of this term, two new ventilators were put in near the science rooms in the north wing.

We would call attention to a fact which is often not realized and appreciated and that is, that in all of the shops of Benson the machines upon which the students work are real machines, big ones such as are used in great industries, some of them costing thousands of dollars apiece.





WOODWORKING SHOP

Most of the boys in the Pattern shop are second termers. This is required in most of the technical courses. The object of this course is to prepare the student in such a manner that he may ultimately become a much better pattern maker.

The first term students make four patterns. Every week an examination is given on the different tools, nails, woods, screws, glues, and many other things dealing with woodworking. While making the four required patterns, the student becomes acquainted with most of the tools and machinery of the shop.

During the second semester, the student takes regular pattern making. He learns chucking, rechucking, and segment work. The boys are taught the different types of mortices and tenons, and are required to make a few exercises covering this.

The four-year Building Construction Course is designed to give the students general insight into the building trades. They are given sufficient instruction, both theoretical and practical, to enter the trade as advanced apprentices.

During the time spent in school, the students are required to make a miniature model of a modern bungalow. They are required to make an actual window frame complete, in order that they may understand each joint.

The Wood shop is one of the most important shops in the school. The students make many things for the district. They make all of the patterns for the castings to be made in the Foundry, one of which was the Simon Benson Plaque that hangs over the entrance to the auditorium.

The shop is equipped with all the modern machines. These include a twenty-four-inch planer, a sixteen-inch jointer, a belt sander, a combination table saw and circular crosscut saw. There are also a mortice machine, a single end tenoner, two disc sanders, a spindle sander, a twenty-four-inch speed lathe, six nine-inch speed lathes, twelve 12-inch speed lathes, and two thirty-six-inch bandsaws.



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Street Car Conductor—How old are you, my little girl.

Little Boston Girl—If the corporation doesn't object, I'd prefer to pay full fare and keep my own statistics.

* * *

Teacher—Did you ever have your tonsils out, Churchill?

John—Only when I laugh real heartily.

* * *

Waiter—About that steak you ordered, sir. How'd you like to have it?

Neil Buley—Very much indeed.

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Light Lunches and Fountain
Service, Homemade Pies and
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*We offer the best of well-
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S.W. Third and Salmon
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Science Instructor—What is water?
John Downey—Liquid that turns black
when you wash your hands in it.

* * *

EPITAPH

Here lies the body of Susan Jones,
Resting beneath these polished stones.
Her name was Brown instead of Jones,
But Brown won't rhyme with polished
stones.

* * *

There's lots of cut-throat competitors
among barbers.

Go To

W. E. BURNS - - - DAN BURNS
Not Brothers---The Same Man

Auto Parts - Tools - Equipment

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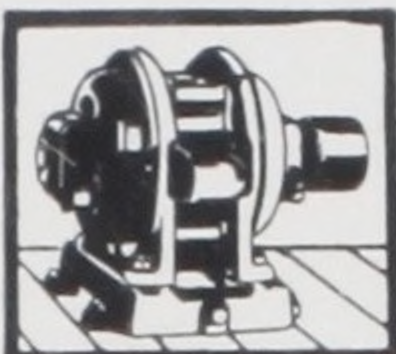
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S. E. Sixth and Madison

Phone East 8776

Joe—Believe me they roar when I do
my stuff on the stage.

Moe—Oh, are you a comedian?

Joe—No, I'm a lion tamer.

* * *

Wayne Taylor—You shouldn't pound
your head against the floor. You might
injure yourself.

Al Haycock—Don't be silly. This floor
is concrete.

* * *

Bob Nielsen—I'm a new man today.
She—Oh, be yourself.

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COMMERCIAL
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Flowers for every occasion

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For School Jewelry*

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Manufacturing Jewelers

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2nd Floor, Fifth & Pine

Math Instructor—And now we find X
equals zero.

Junius Williams—Gee, all that work
for nothing.

* * *

He—When I leave 'em, I leave 'em
cold.

She—What are you, a killer?

He—Naw, a refrigerator man.

* * *

Bob McKown—I've just returned from
photographing big game in Africa.

Leonard Isberg—Well, well, any gnus?

MOTORCYCLES



NEW and USED
BICYCLES
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We Repair Anything in Wheel Goods

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BE 5389

Bill Halverson—Hey, Gerson, you got your shoes on wrong; you got the right one on the left foot.

Gerson Goldsmith—My gosh, they been that way for sixteen years; I thought I was club-footed.

(Overheard in Restaurant) Cook—
That oyster I've been using for the past two weeks is getting rather flabby.
What'll I do?

Boss—Use the old bean.

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—ANNUAL
ENGRAVERS

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MARSHALL-WELLS COMPANY

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Wholesale Hardware

Complete Lines of Tools, Athletic & Fishing Supplies and
General Hardware Items.

Mr. Hargreaves—I'm surprised at you, Robert, that you cannot tell me when Columbus discovered America. What does the chapter heading of last week's lesson say?

Robert McKown—Columbus, 1492.

Teacher—Well, isn't that plain enough? Did you ever see it before?

Robert—Yes sir, but I always thought it was his telephone number.

* * *

Bill Mills—I'm writing a book without any women in it.

Reggie Ryder—Oh. your diary, eh?

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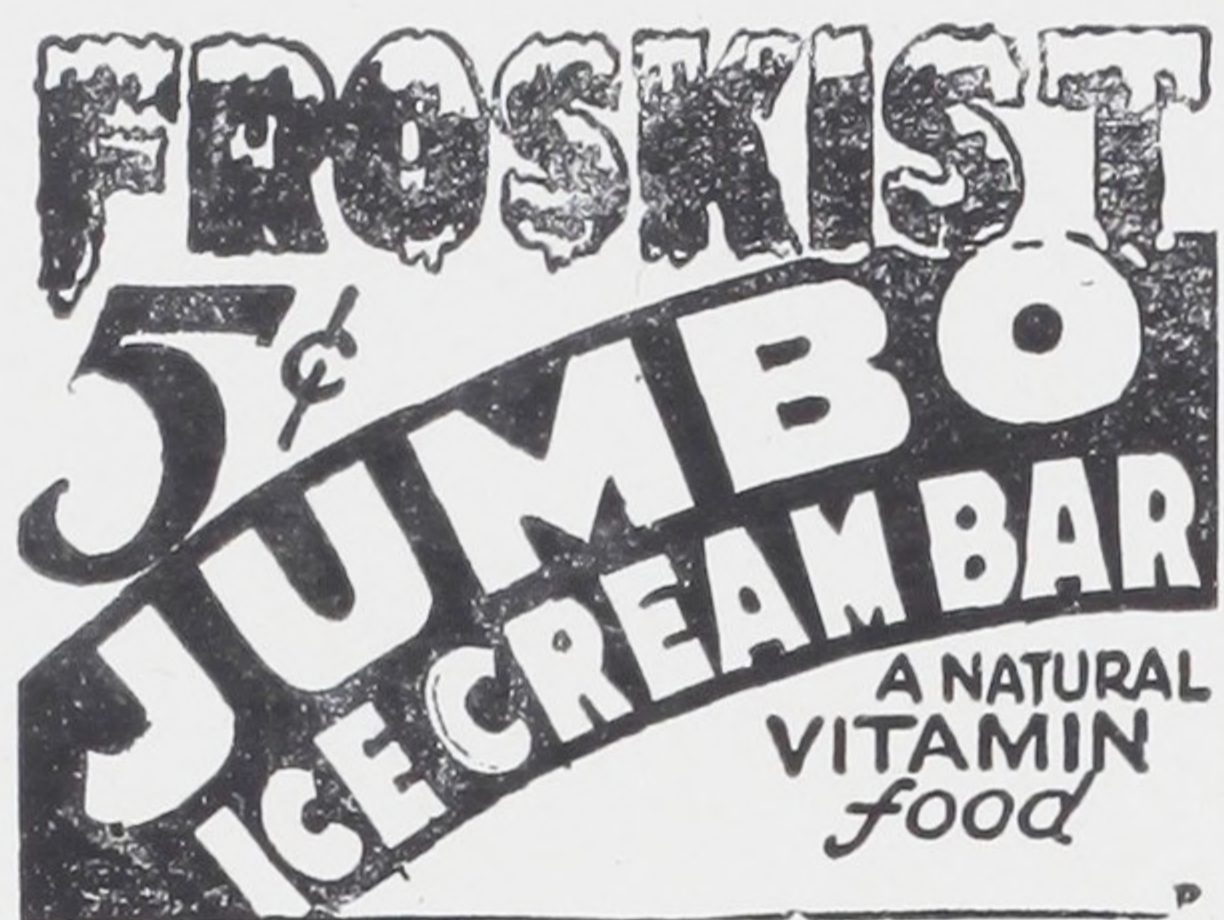


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Johnny Angelus—You know that music stool you sold me?

Shopkeeper—Yes.

Johnny—Well, I've twisted and turned it in all directions, and I can't get a single note out of it.

* * *

Ted Wojcik—And here's a picture of me showing my muscle.

Ted's Weakness—You should have it enlarged.

Ted—The picture?

She—No, the muscle.



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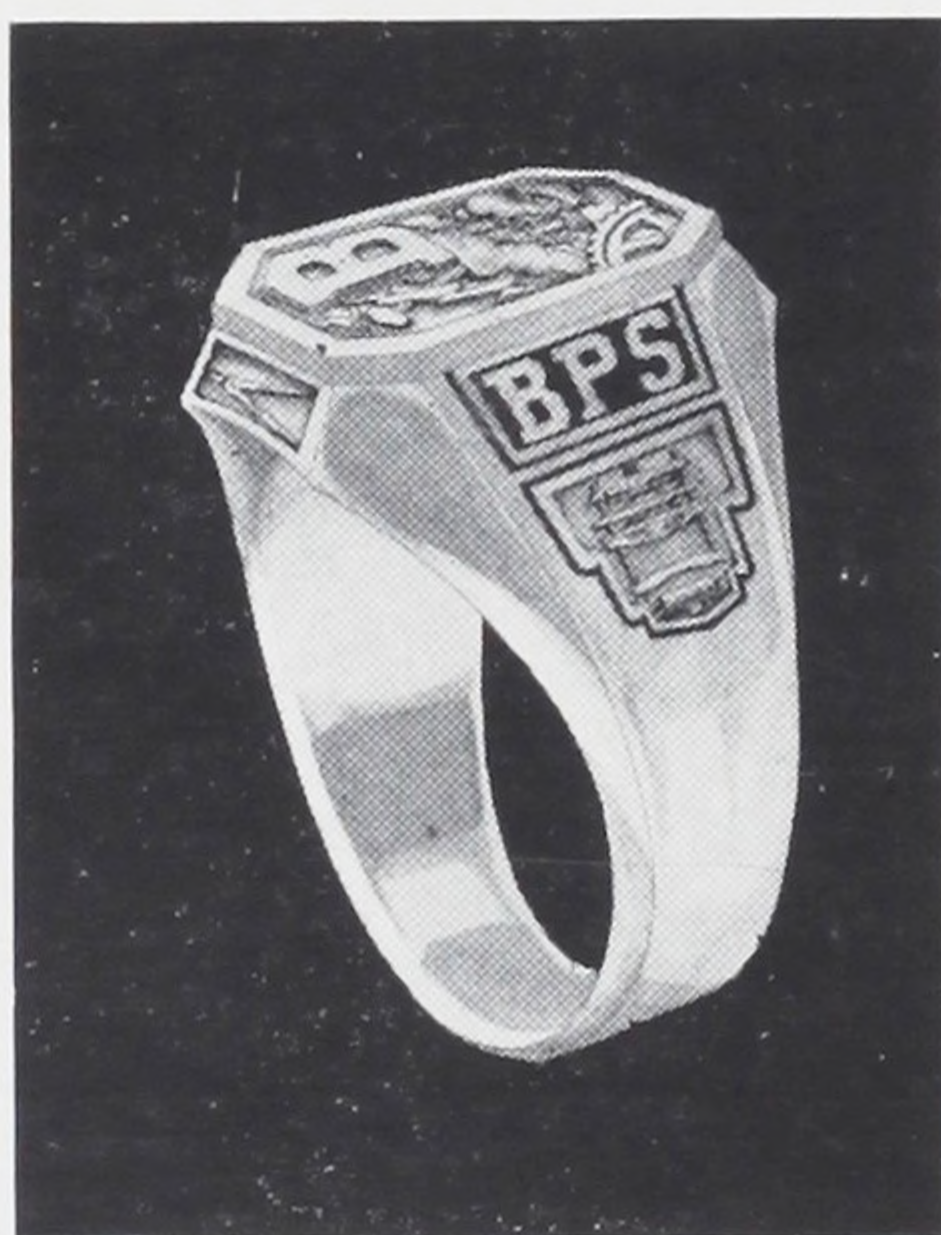
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