

1963

**THE TECHNICIAN**







# The Technician

1967  
PUBLISHED BY THE STUDENTS  
OF

ROANOKE TECHNICAL INSTITUTE

ROANOKE, VIRGINIA

SAMUEL M. GUZMAN  
EDITOR

H. CARLILE QUINN  
FACULTY ADVISOR

VOLUME I



**ASPIRING TO REACH HIGHER GOALS**



# *Foreword*

In an atomic age where men have long since reached an end to geographical pioneering and where, indeed, the new horizons reach out to the moon, there remains (on earth) but the challenge to meet new frontiers on an educational plane - to seek new levels of knowledge, new heights of achievement.

In this light then, the state of Virginia, Roanoke Technical Institute, and especially the Class of 1963, are pioneers in the true sense for they, each in turn and as an integral unit, have engaged in a pioneering program of educational endeavor - a venture which holds promise for those who follow. As in all new efforts, the way is not always smooth. But, like true pioneers, new ideas are tried; new methods are invented.

This, then, is their story; their struggles, their hopes, their achievements.

## *Contents*

INTRODUCTION

ADMINISTRATION

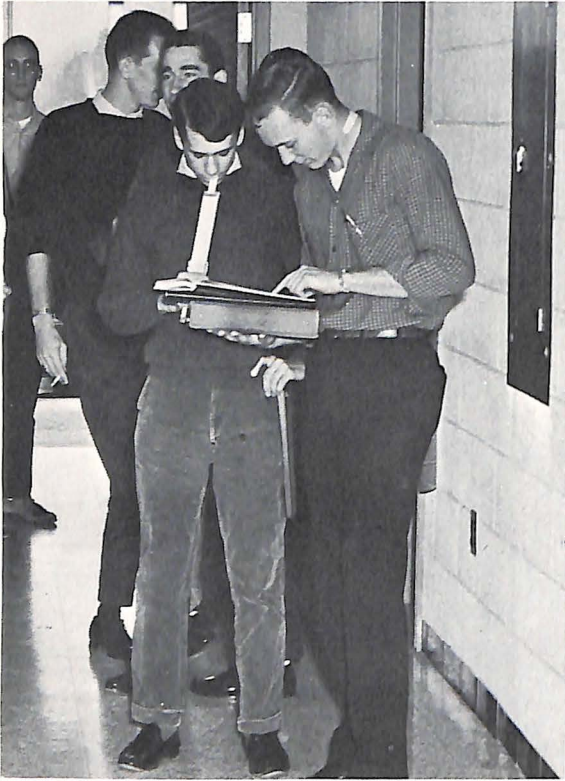
FACULTY

CLASSES

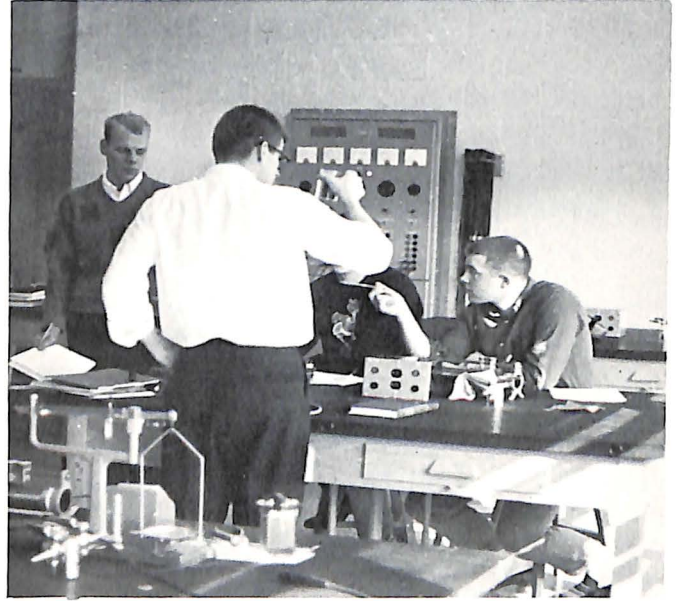
ACTIVITIES

ADVERTISEMENTS

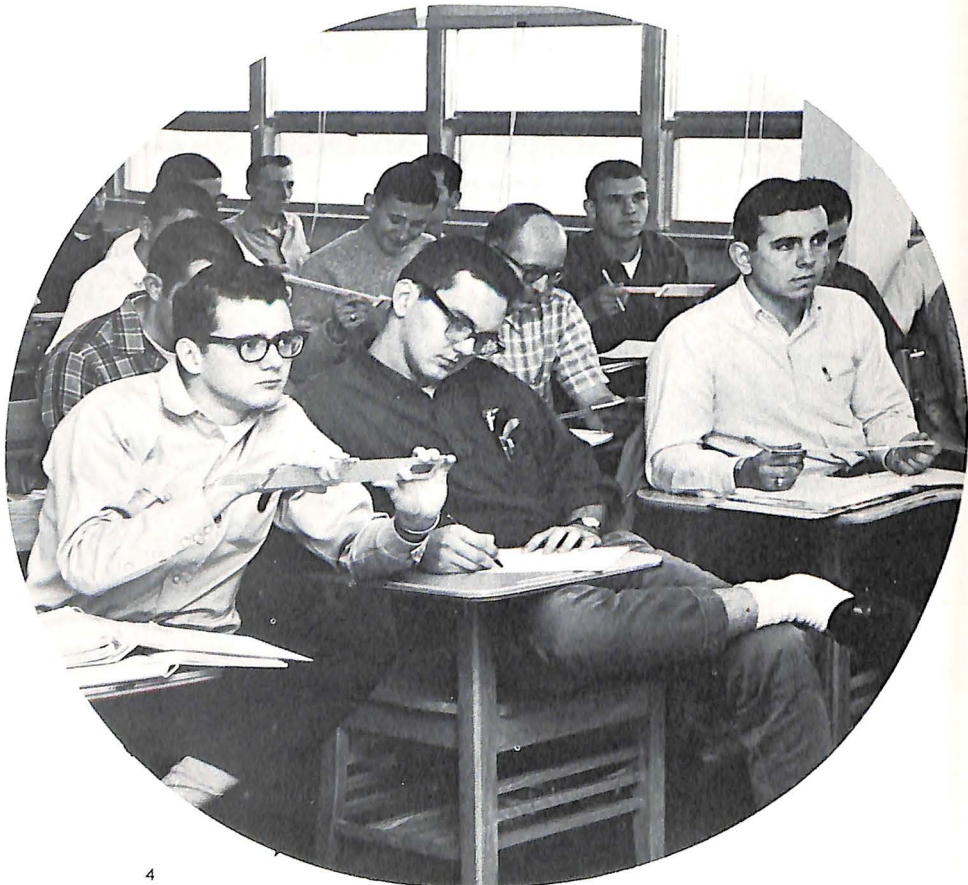
# BOLD YOUNG MEN WILLING TO PIONEER NEW FIELDS



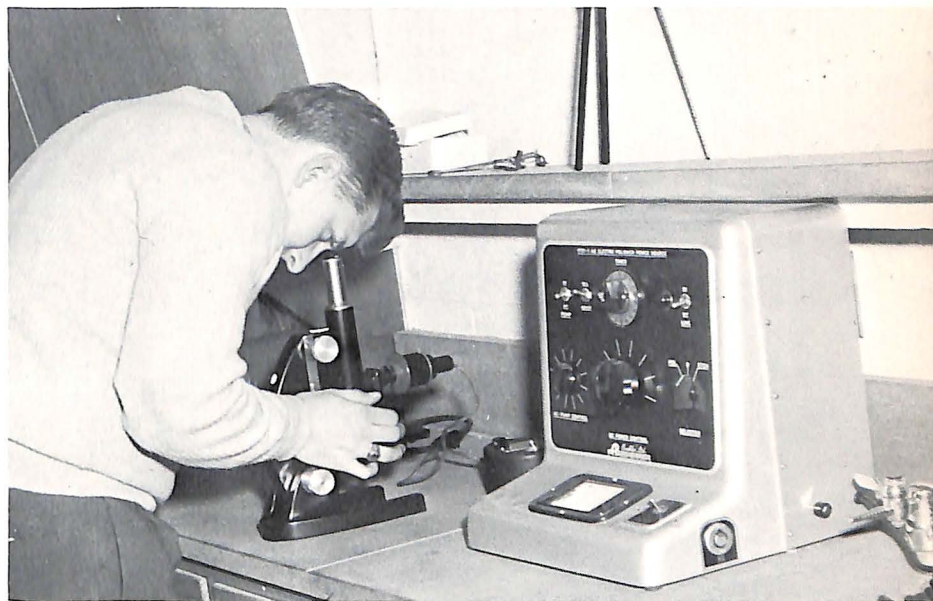
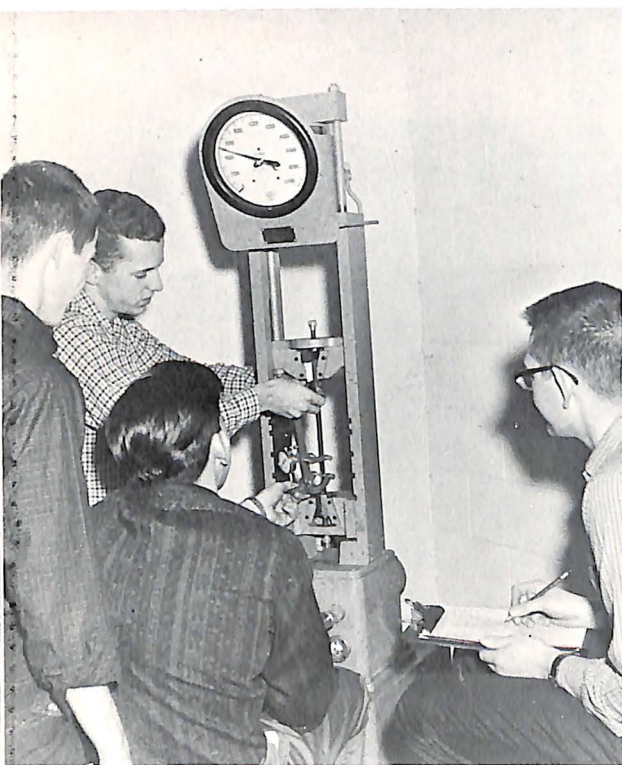
Last minute cramming?



Joe Pentecost works a problem the hard way . . . or maybe he just forgot his slide rule.



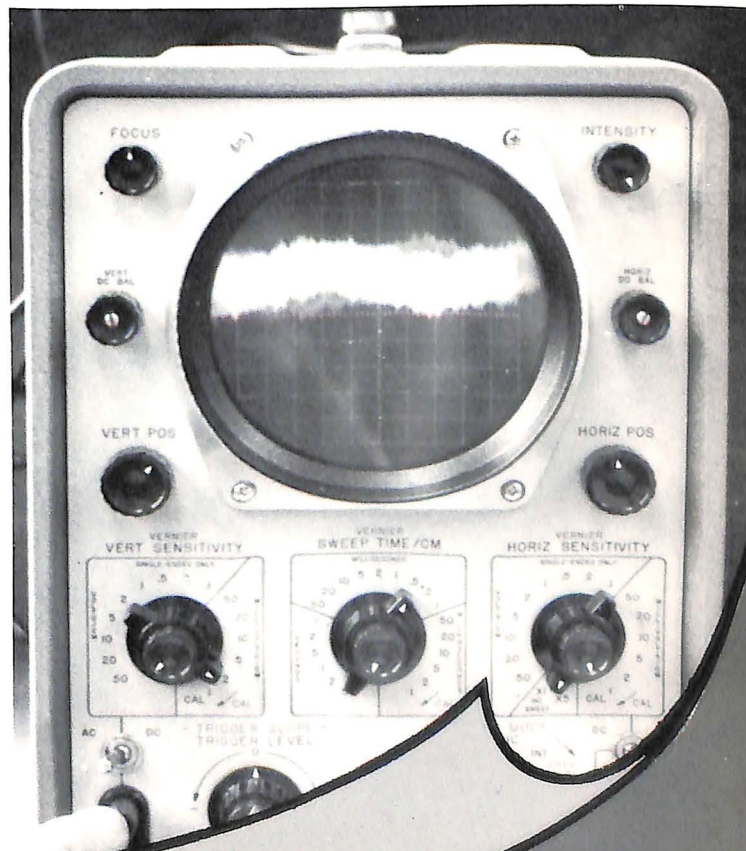
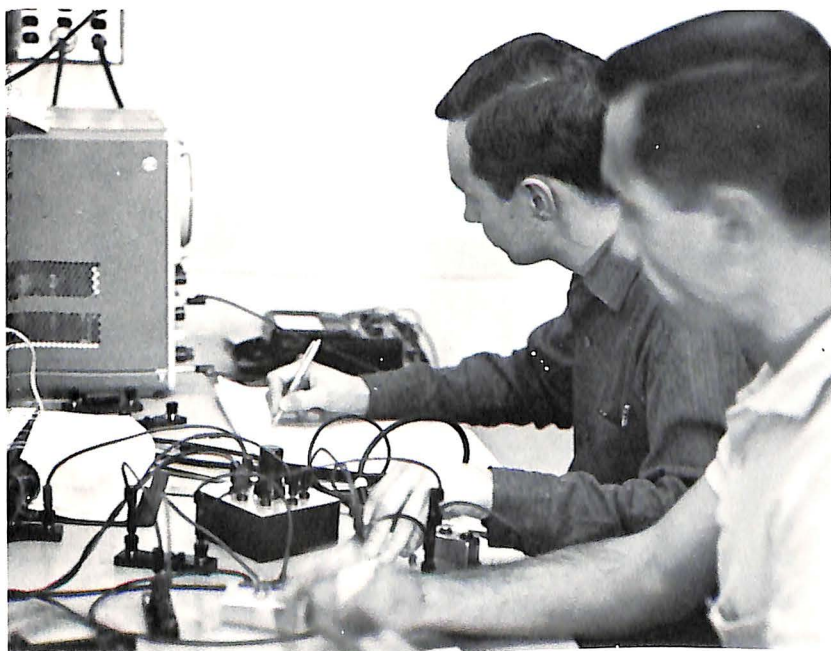


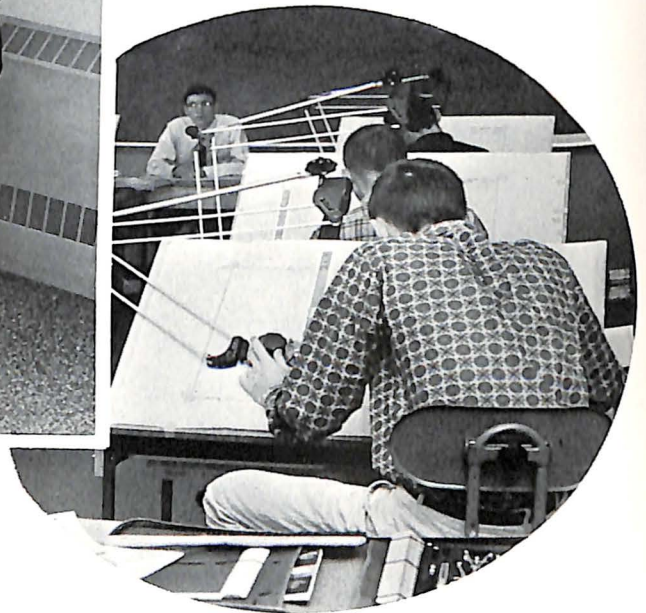


Monty Sanders, Ron Bryant, Darius McBride, and Dave Williams are seen accumulating data from a tensile test to be used in determining mechanical properties of steel, while Mickey Johnson performs a microscopic examination of a metallurgical specimen to determine grain structure.

## ... OPENING NEW FRONTIERS

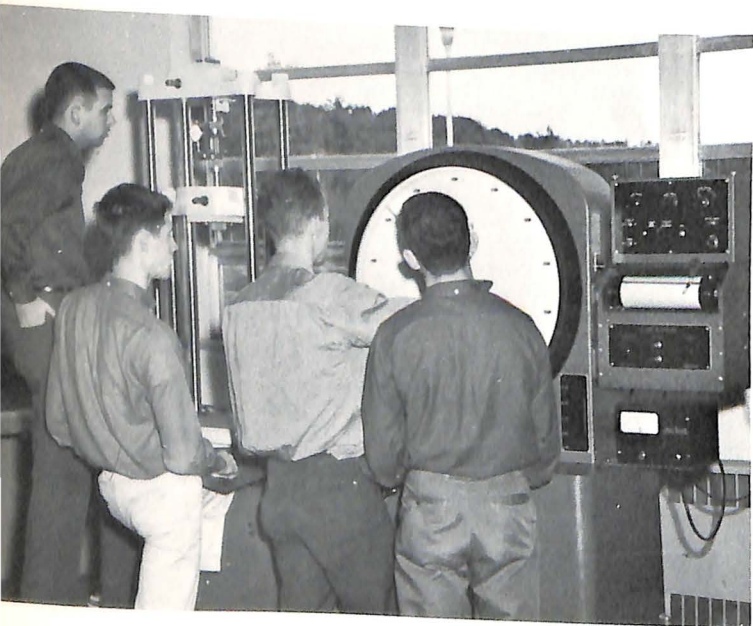
Electronic devices and circuits are tested and proven in the laboratory to substantiate the theory learned in lecture. An indispensable "tool" to this end is the cathode-ray oscilloscope.





Through our continued sacrifices and with a determined effort to achieve perfection in our selected vocations, we may help our community to find a solution to many of its perplexing problems.

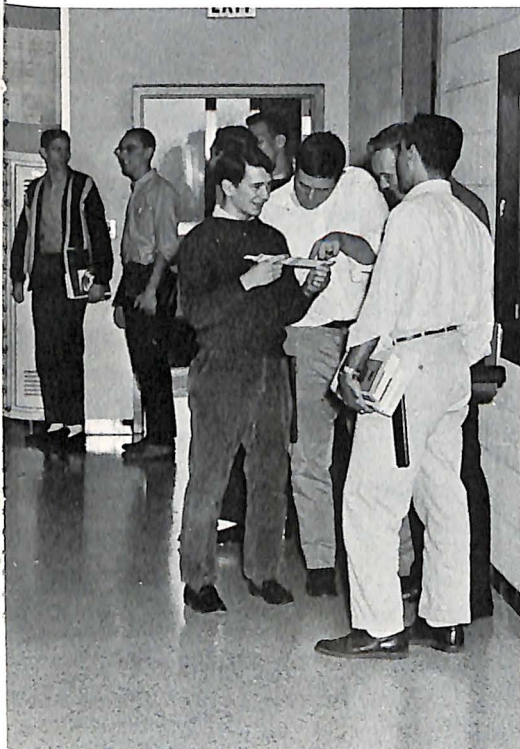
## THE CHALLENGE IS CONSTANTLY BEFORE US



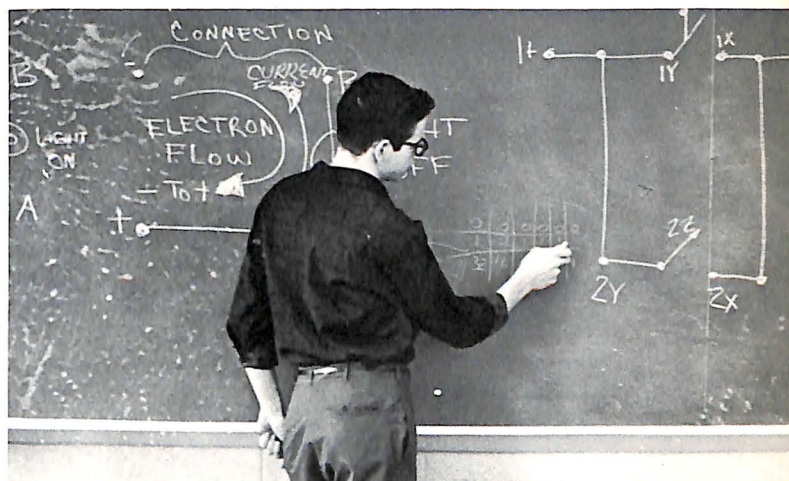
Students spend much of their time in the modern, well-equipped library which includes, among its many volumes, the largest technical reference source in the State.



# WE CONTRIBUTE—THEREBY, WE GAIN



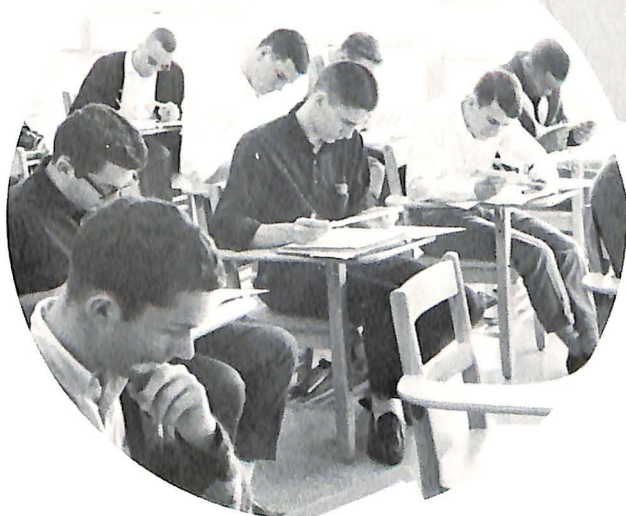
It says so . . . right there! One way to win an argument--use your slide rule.



Ed Boyer explaining the operation of the Minivac 601 computer.



During tests the "slip-stick" is essential for rapid calculations.



Bill Mattox works out a problem in an electrical design course.



MR. JAMES E. McVEAN  
Director

The passing of a bill in 1958 by the legislature of the state of Virginia created a state institution of higher learning, but only in theory. In order to become a reality, this enactment would require the initiative of an administrator combined with the ability of an educator. Some men in the teaching profession excel in one or the other of these fields. Rare, indeed, is the man who possesses both of these qualities. The search was long, the qualifications demanding.

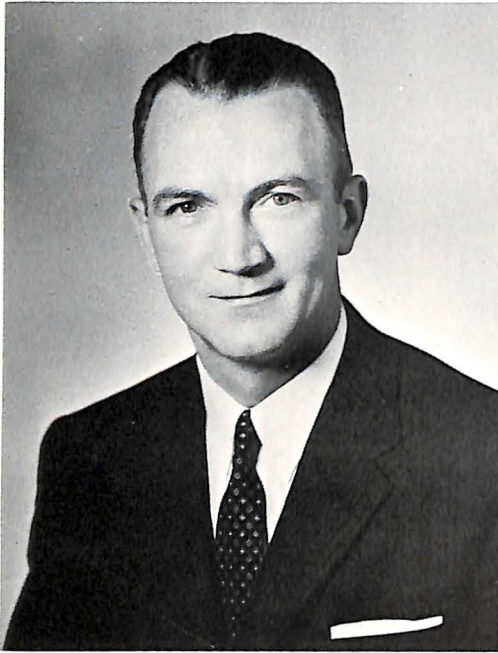
Fortunately, such a man was found. In February, 1961, James E. McVean was appointed director of the proposed college which was to be a branch institution of Virginia Polytechnic Institute. His was the task of creating an institution with an educational program little heard of and, as yet, untried in this state . . . the two year program of specialization in the engineering technologies. Bringing with him an avid interest and a knowledge of the value of this type of education, and an experience born of association and participation, he was equal to the task.

Mr. McVean graduated from Canton Ag. and Tech. Institute in 1941, earned the B.E.E. degree at Clarkson College of Technology in 1948, and the M.S. degree at Cornell University in 1953.

To you, Mr. James E. McVean, leader, teacher, and friend, we, the first graduating class of Roanoke Technical Institute proudly and gratefully dedicate this first volume of THE TECHNICIAN.

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*Dedication*



MR. ROY C. HERRENKOHL

We at Roanoke Tech feel a particular indebtedness to Mr. Roy C. Herrenkohl, dedicated civic leader, without whose effort Tech's arrival might long have been delayed.

We are especially grateful for his untiring effort and his continued interest. With foresight and optimism, Mr. Herrenkohl has championed "our cause" since 1953 in an effort to coordinate civic, business, and industrial support in order to bring Tech to Roanoke.

His leadership and determination were an inspiration to all who worked with him.

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## ROANOKE TECHNICAL INSTITUTE

### ADVISORY COMMITTEE

Roy C. Herrenkohl, Chairman

David N. Burrows

G. L. Furr

E. H. Lane

Leonard G. Muse

Walter L. Young

## VIRGINIA POLYTECHNIC INSTITUTE ADMINISTRATION

T. Marshall Hahn, President

Stuart K. Cassell, Business Manager

W. G. Worchester, Dean of Engineering

Stuart B. Row, Coordinator of Branch  
Institutions

Under the guidance and leadership of Mr. McVean the Institute has experienced steady growth and is receiving wide recognition.



Through foresight, dedication, and diligent hard work, the faculty has grown into a smooth operating team whose duties are varied but coordinated to create and establish an atmosphere for learning.

Their patience and wisdom guide us in our education; their enthusiasm and knowledge are invaluable in gaining an insight into the mystifying and elusive areas of learning.

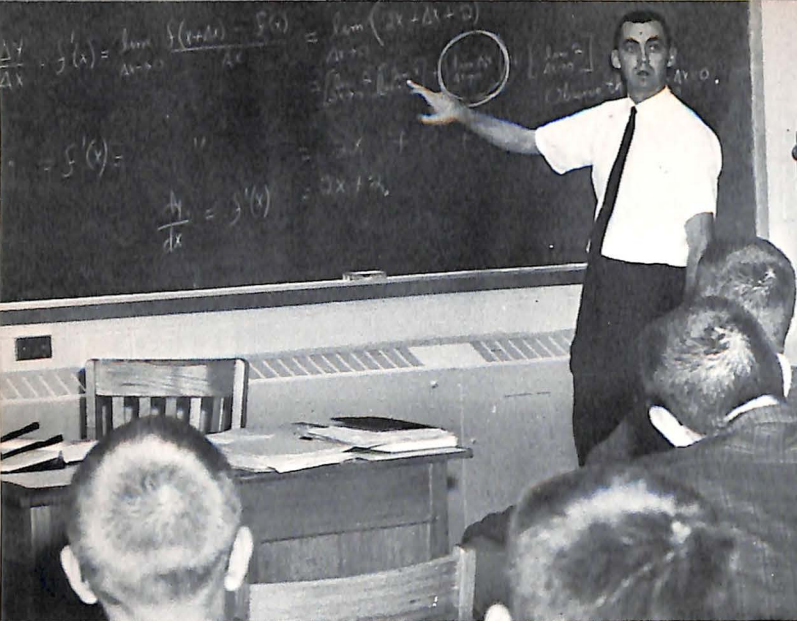
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## ADMINISTRATION

LOUISE CLENDENEN



A special tribute is warmly extended to Miss Louise Clendenen, who has done an excellent job of establishing an administrative office, in addition to conducting a lost and found department, and an "information booth".



Mr. Gryder explains the use of limits in the calculation of the derivative in a differential calculus lecture.



Always ready to lend a helping hand, Mr. Hardy explains the operation of an electrical circuit in the physics laboratory to Lee Taylor and Boyd Hubbard.

## ... AND FACULTY

DANIEL E. GRYDER, B.S.  
Wake Forest College  
Mathematics

CURTIS M. HARDY  
B.S. in E.E.  
Virginia Polytechnic  
Institute  
Electrical Department

PATTON H. MCGINLEY,  
B.S.  
Georgia Institute of  
Technology  
Physics







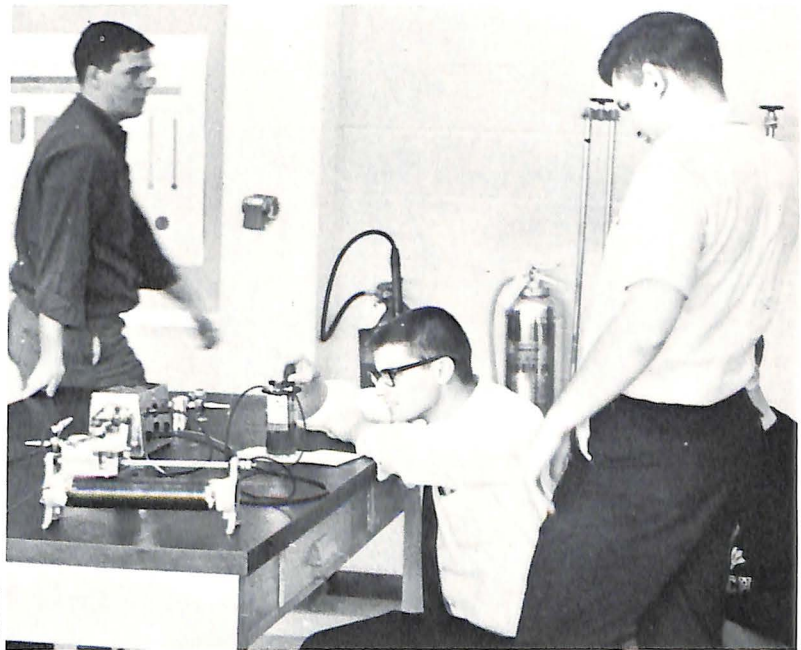
**SHERRARD T. MOSELEY**  
 B.S. in E.E., M.E.E.  
 Virginia Polytechnic  
 Institute  
 Syracuse University  
 Electrical Department



**THOMAS L. OVERBY**  
 B.S. in E.E.  
 Virginia Polytechnic  
 Institute  
 Electrical Department



**HUGH B. PHELPS**  
 B.M.E., M.M.E.  
 Clarkson College of  
 Technology  
 Head, Mechanical  
 Department



Besides heading the mechanical department, Mr. Phelps maintains a full teaching schedule, and is seen here preparing a lecture for one of his many classes.



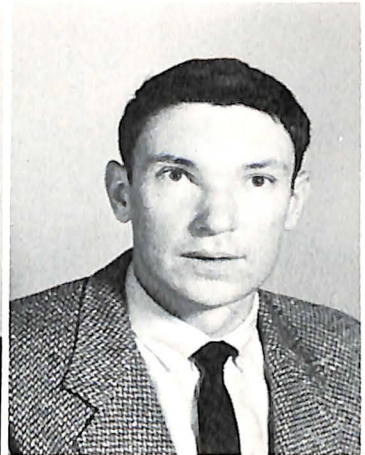
Mr. McGinley checks laboratory set-up of John Higgins and Hampton Munsey in a study of electro-chemical effects.



H. CARLILE QUINN, B.S.,  
M.A., Virginia Polytechnic  
Institute, English, Eco-  
nomics, Psychology



HARRY C. RACE  
B.S. in E.E., North-  
eastern University,  
Head, Electrical  
Department



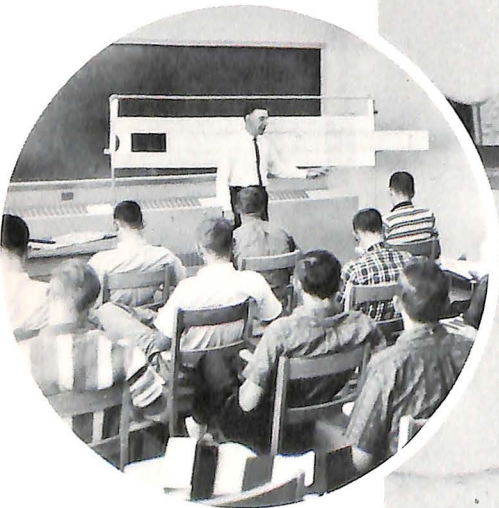
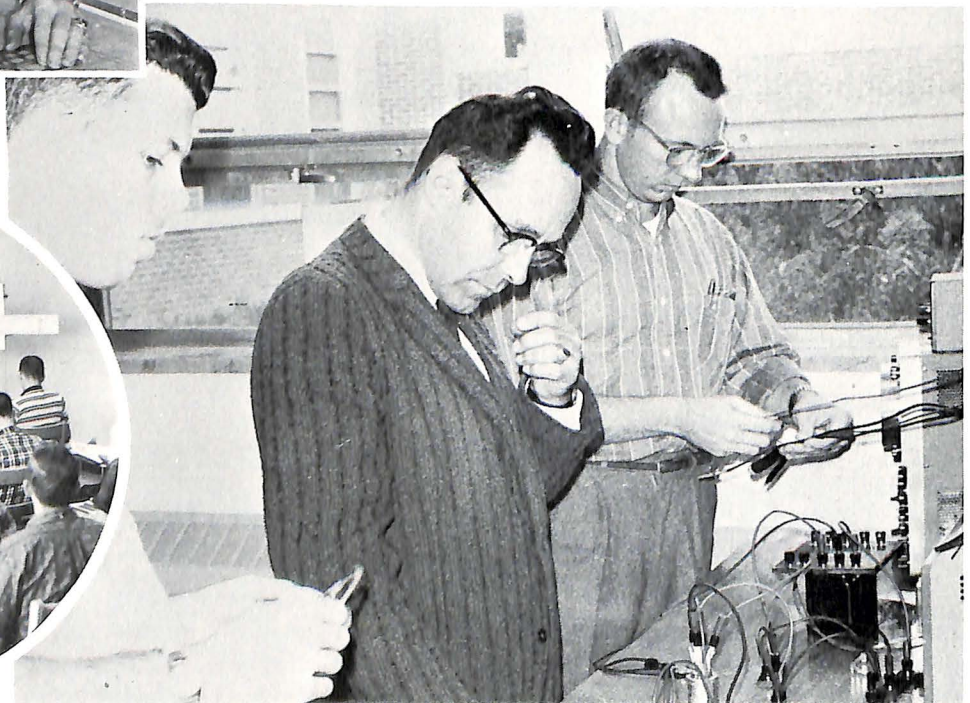
PAUL H. SALES, B.S.  
State Teachers College,  
Massachusetts  
Graphics



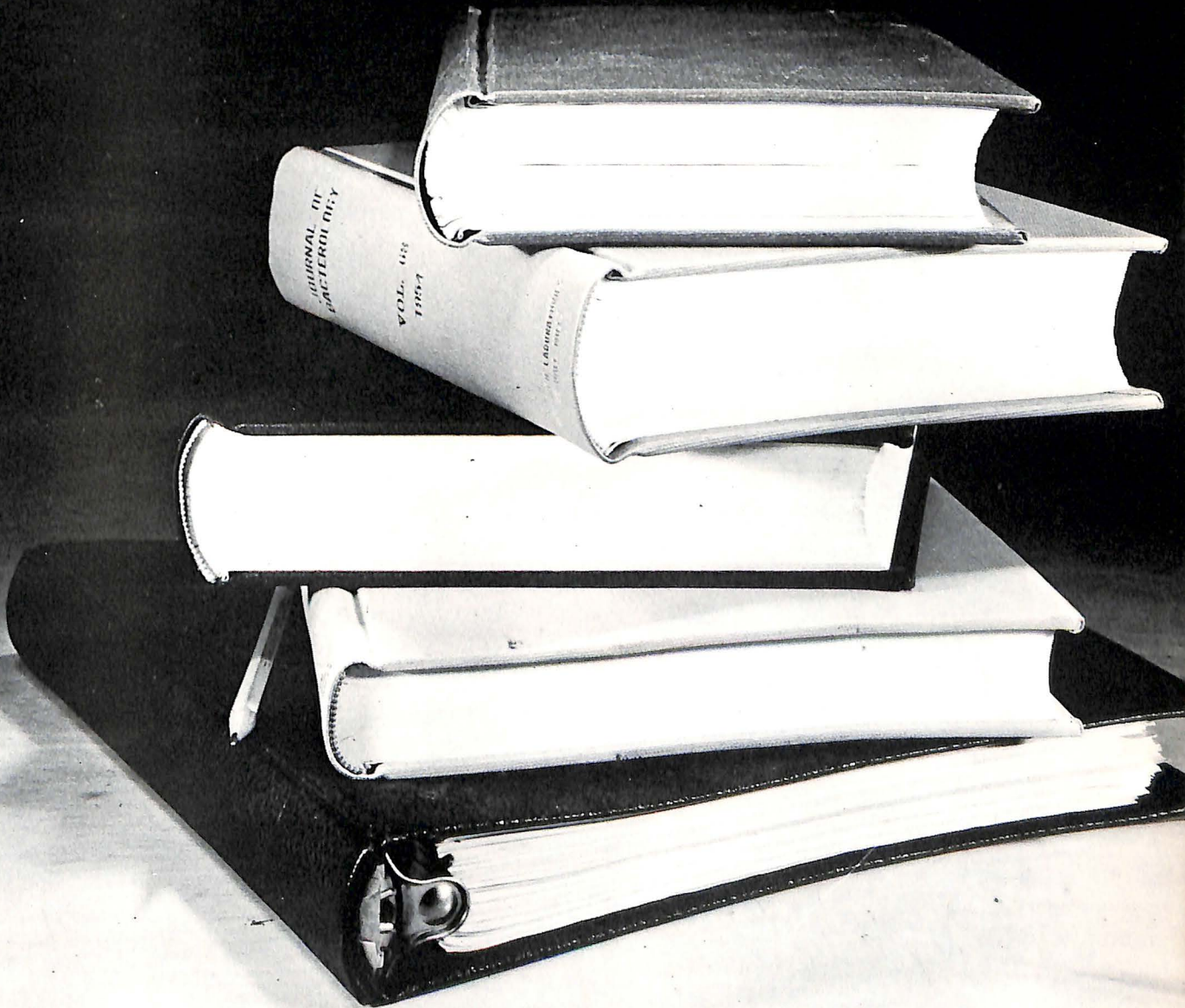
Mr. Sales, Professor of Graphics, "practices  
what he preaches".

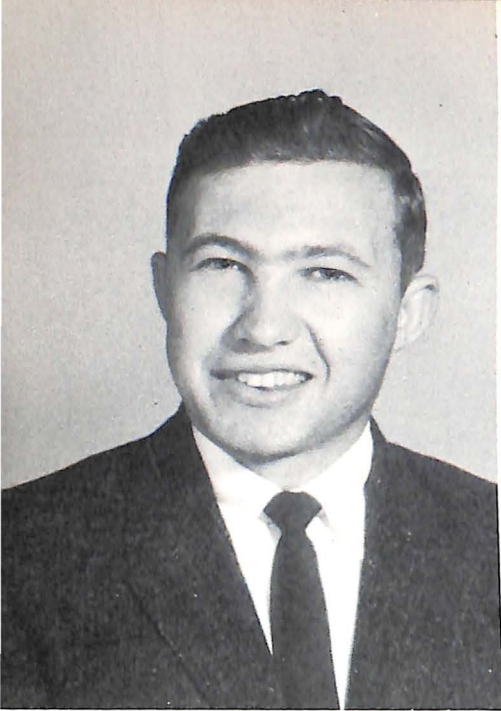
Students learn to operate the slide rule in Mr.  
Overby's class.

Bill Mattox and Jimmy Layman are  
assisted by professor Race in  
trouble shooting a circuit.



# SENIORS

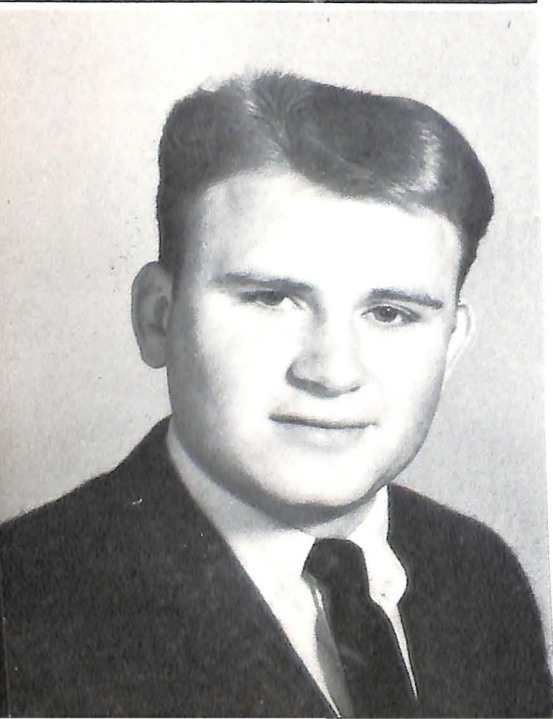




JERRY P. BOWERS  
ELECTRICAL



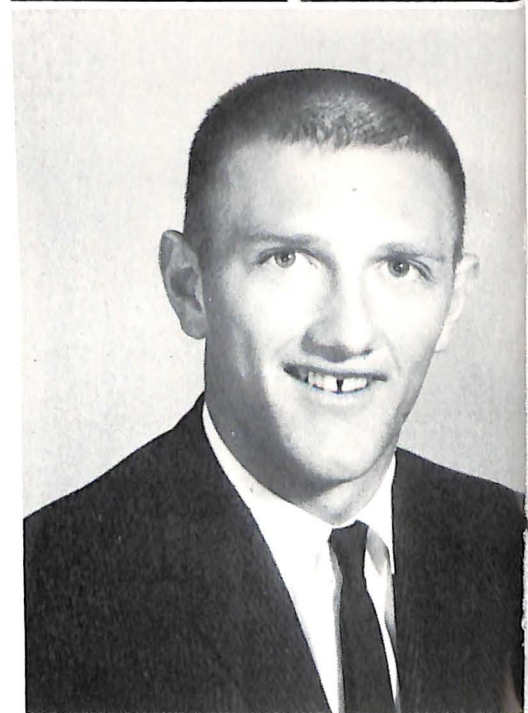
EDWARD A. BOYER  
ELECTRICAL  
Camera Club, IRE



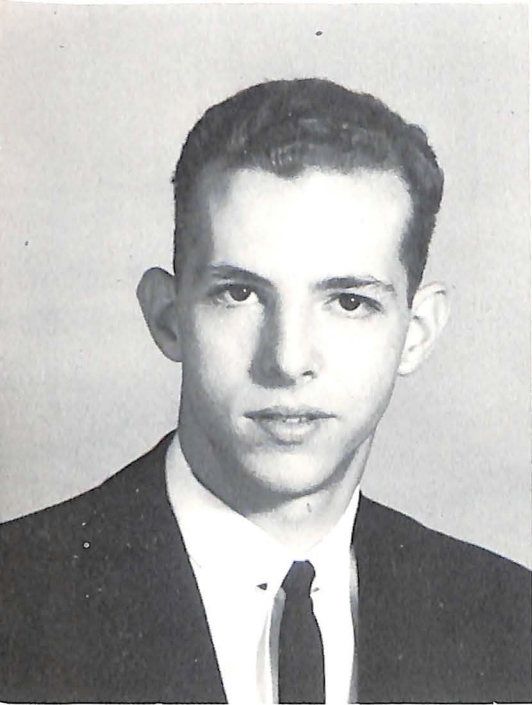
THOMAS R. BROGAN  
ELECTRICAL  
Tau Alpha Pi, IRE



LYNNIE B. BROWN  
ELECTRICAL  
Tau Alpha Pi,  
Student Council,  
Secretary



RAY S. BROWN  
MECHANICAL

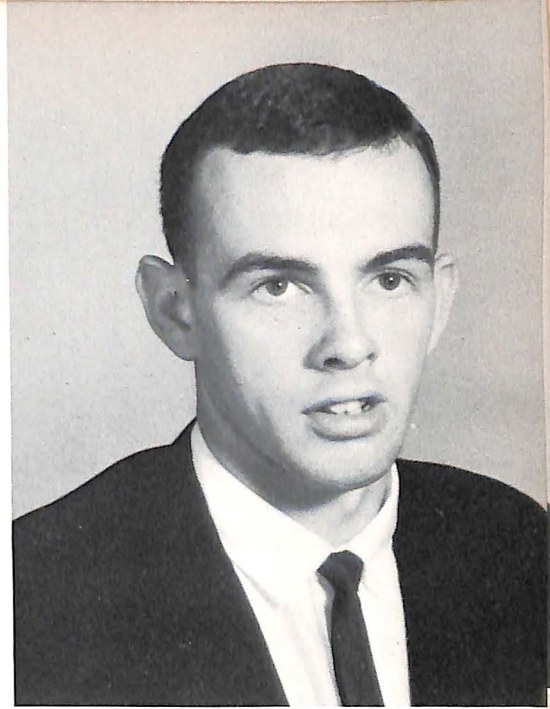


CHARLES R. BRYANT  
MECHANICAL

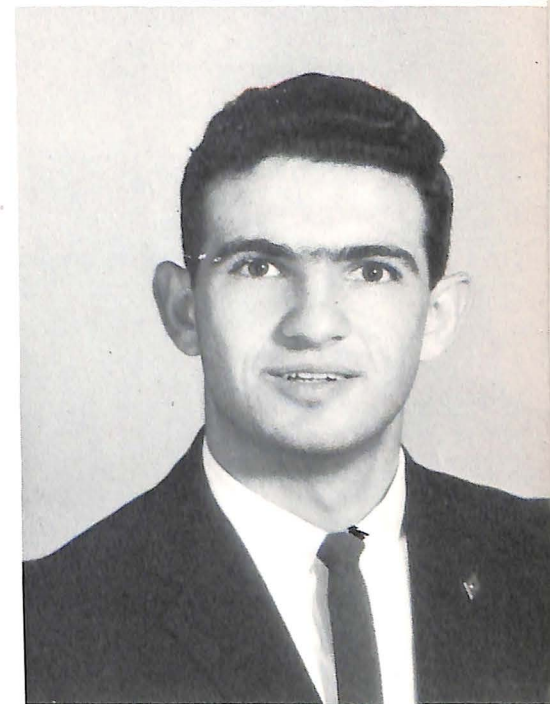
Tau Alpha Pi; Student  
Council, Representative



JOHN R. COLE  
ELECTRICAL

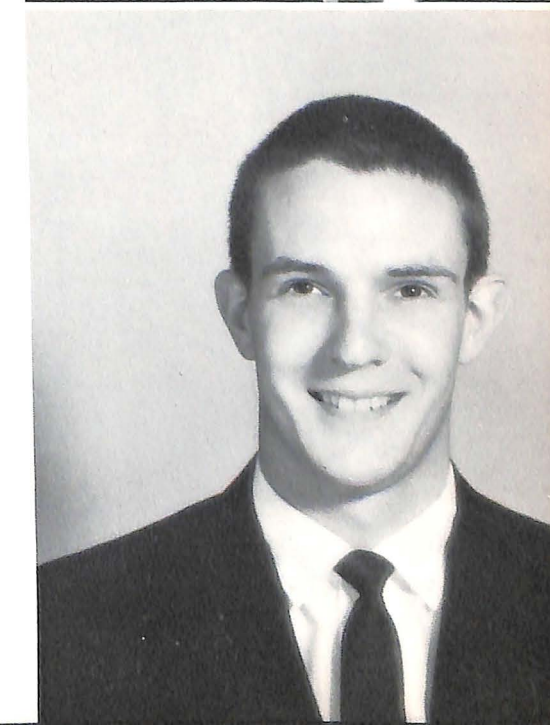


STEPHEN E. DEAN  
MECHANICAL



DARRYL G. DELLIS  
MECHANICAL

Student Council,  
Treasurer



JAMES M. DUNMAN  
MECHANICAL



JOSEPH C. GIVENS  
ELECTRICAL  
Camera Club, IRE



ROY L. GRIGGS  
ELECTRICAL  
Tau Alpha Pi, IRE,  
Student Honor Committee



SAMUEL M. GUZMAN  
ELECTRICAL  
Tau Alpha Pi; Student  
Council, President; Yearbook,  
Editor; Student Honor Committee,  
Chairman; IRE; Camera Club



CHARLES F. JOHNSTON  
MECHANICAL



MAC H. JOHNSON  
MECHANICAL



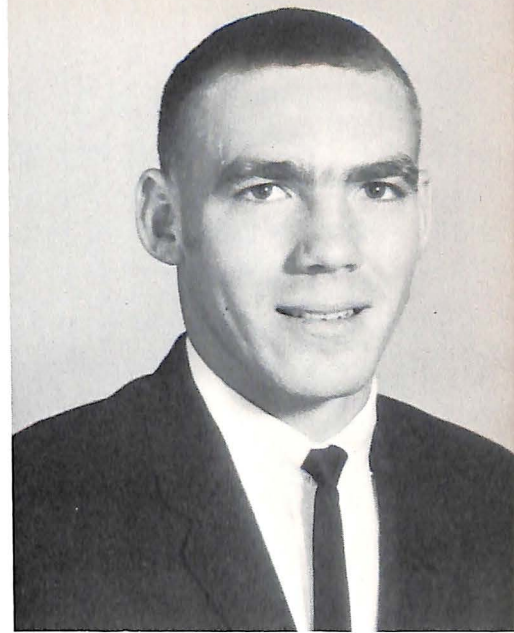
CLYDE D. LAVINDER  
ELECTRICAL



JIMMY N. LAYMAN  
ELECTRICAL

Student Council, Vice-  
President; IRE; Student  
Honor Committee

DAVID W. LEONARD  
ELECTRICAL



WILLIAM F. MATTOX, JR.  
ELECTRICAL  
IRE



DARIUS A. McBRIDE  
MECHANICAL



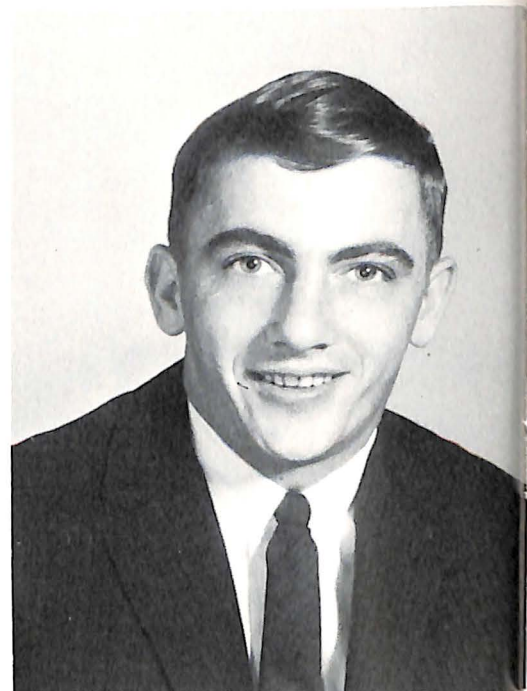
NEIL E. MEDLEY  
ELECTRICAL



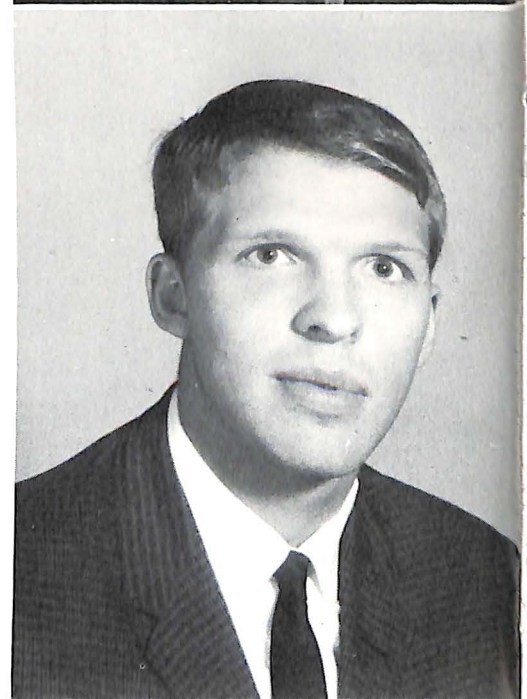
BUFORD L. NICHOLS  
MECHANICAL



RICHARD B. RADER  
MECHANICAL



JAMES S. REYNOLDS, JR.  
ELECTRICAL  
IRE



KENNETH W. RICHARDSON  
MECHANICAL

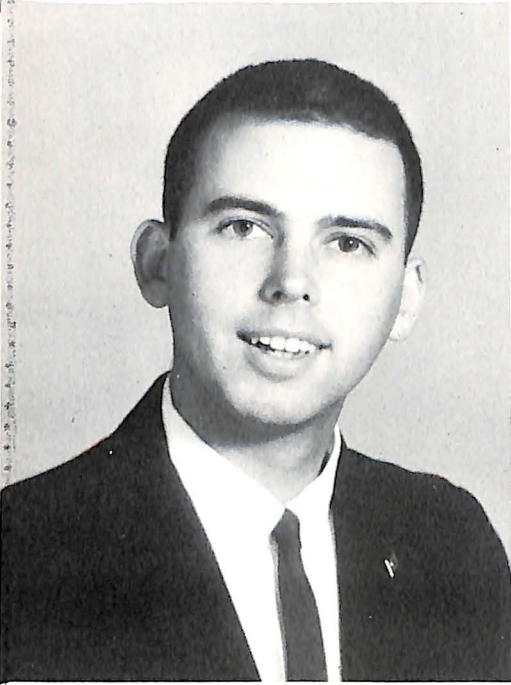


GUY D. SPARKS, JR.  
ELECTRICAL



JAMES A. ROBERTSON, JR.  
MECHANICAL

Student Honor Committee

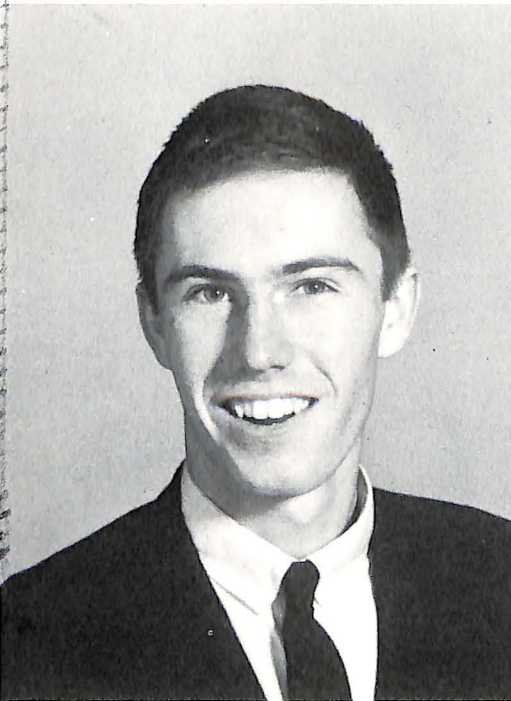


GARY H. SPIERS  
ELECTRICAL

IRE, Class Ring  
Committee

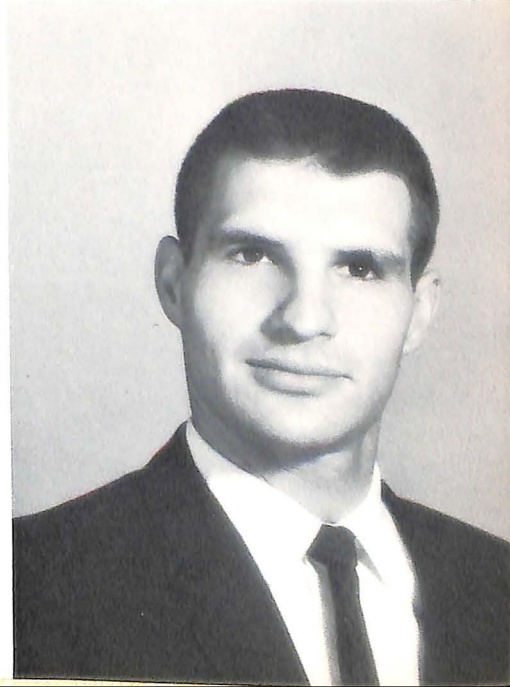


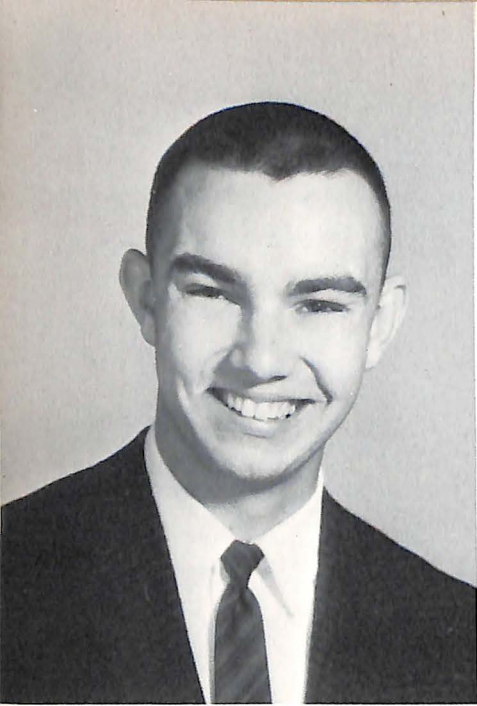
MONTAGUE L. SANDERS  
MECHANICAL



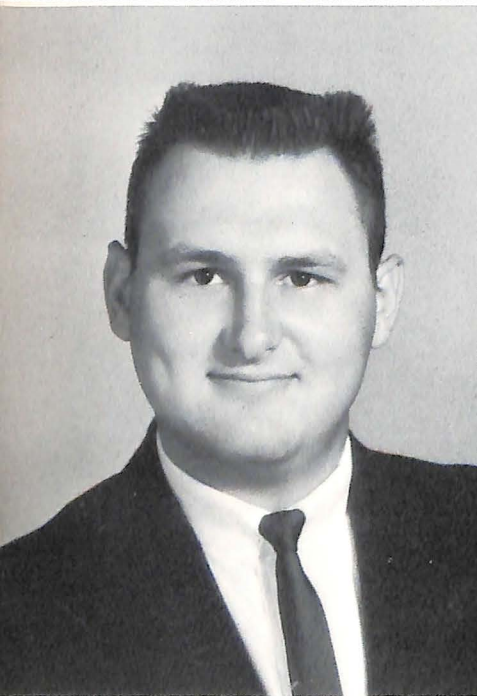
CLARENCE L. TARPLEY  
ELECTRICAL

IRE; Student Council,  
Representative;  
Student Honor Committee





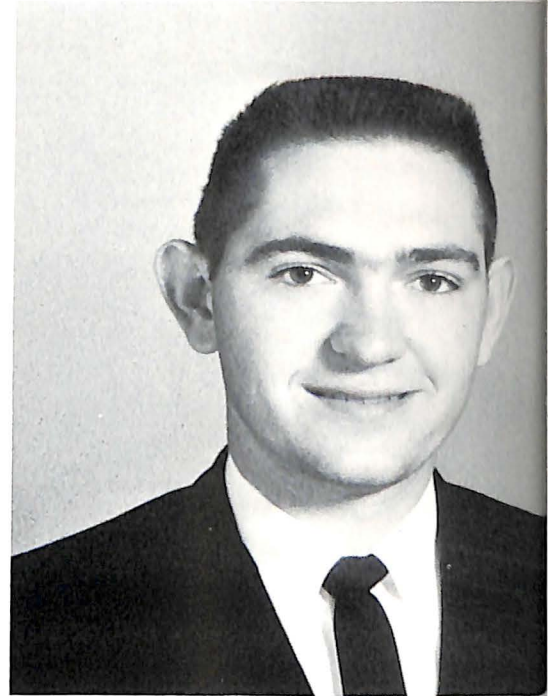
THOMAS E. TIPTON  
ELECTRICAL



DONALD L. TURMAN  
ELECTRICAL



CHARLES F. VARNER  
ELECTRICAL  
Camera Club

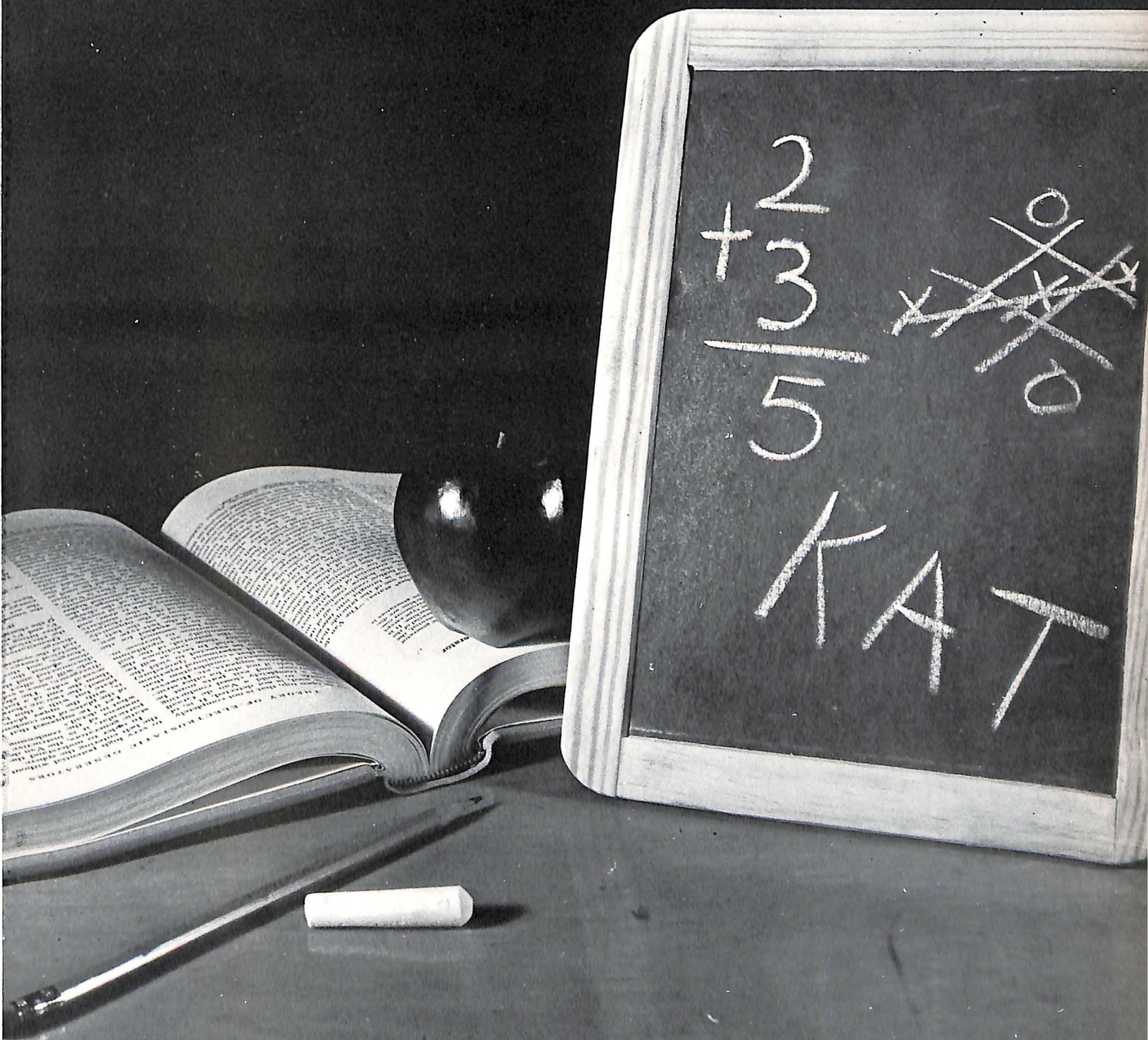


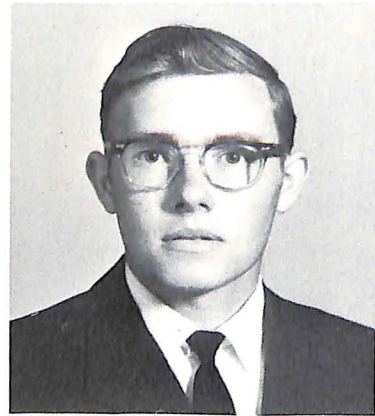
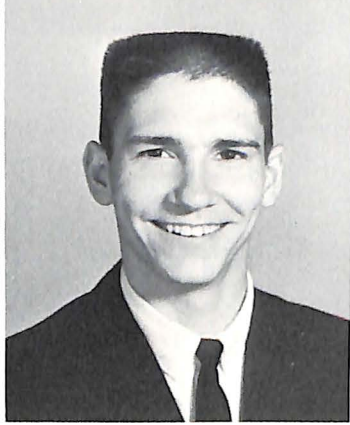
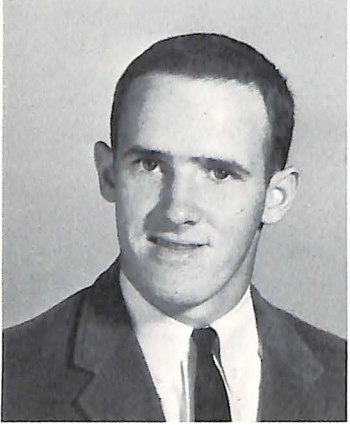
DAVID L. WILLIAMS  
MECHANICAL



MILES R. ZAWADZKE  
ELECTRICAL

# UNDER CLASSMEN



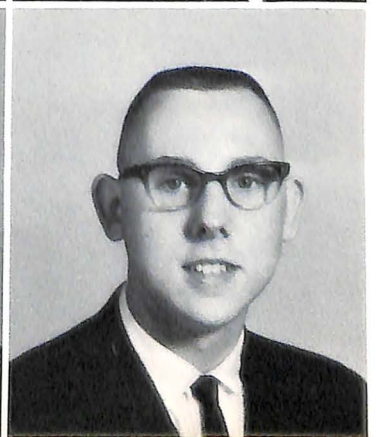
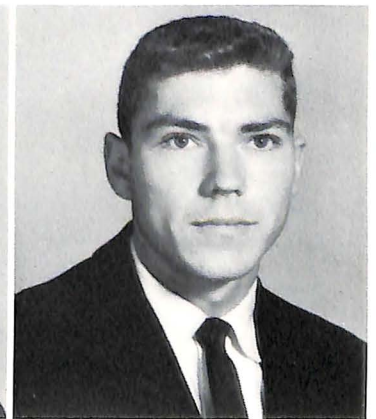
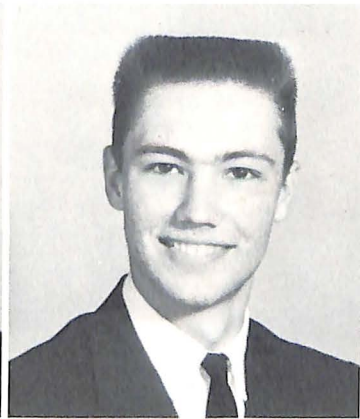


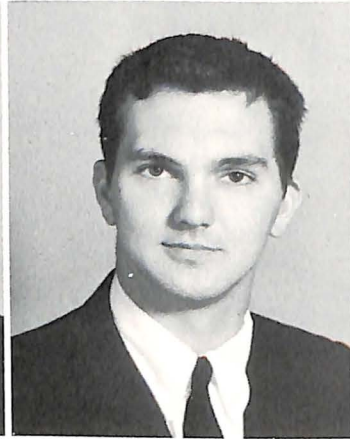
Maurice D. Goad  
 Lewis P. Hash, Jr.  
 John W. Higgins, III  
 William E. Hoffman, Jr.  
 Gerald W. Hogan  
 Boyd W. Hubbard  
 Junius R. Hughes  
 Wallace D. Jamison  
 David R. Kegley  
 David L. Kinsey  
 Jesse C. LaPrade  
 Grover L. Layman



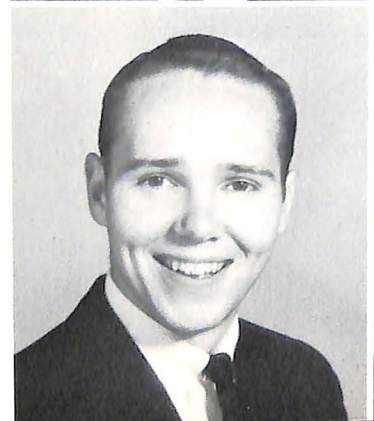


William L. Aldredge  
 Carlton F. Aylor  
 Bruce C. Bartley  
 August F. Berger, Jr.  
 Michael D. Bishop  
 Joseph W. Bradley  
 William B. Clemmer  
 Thomas W. Crawford  
 Robert J. Derenge  
 Roger D. Doss  
 Robert A. Faris  
 Franklin D. Garst



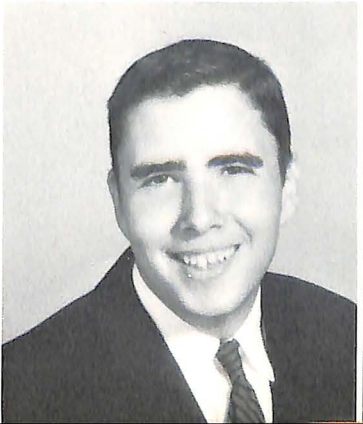
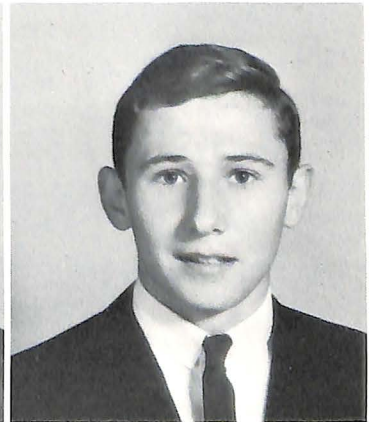
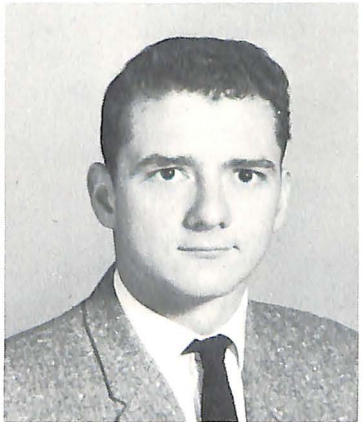


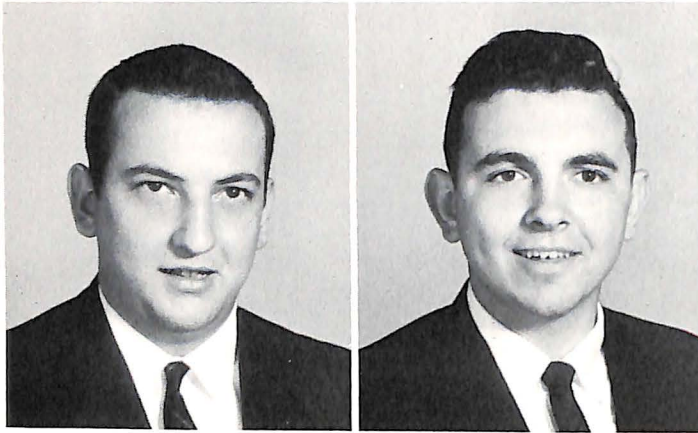
Henry C. Rush  
 Roy A. Skinnell  
 William D. Smith  
 Woody R. Smith  
 Richard D. Steen  
 William H. Stevens  
 Lee A. Taylor  
 Danny R. Templeton  
 Allen K. Thomas, Jr.  
 Brian W. Walsh  
 Barry Walsh  
 Jerry J. Warren





James W. Lemke  
John T. Lenzi  
Joseph J. Levin, Jr.  
Harold S. Mills, Jr.  
Thomas R. Mitchell, Jr.  
Hampton C. Munsey, Jr.  
George E. Parker  
Joseph E. Pentecost, Jr.  
Donald H. Quisenberry  
Larry W. Reed  
Edward R. Robertson  
Martin L. Robison





Aubray D. Weddle  
Douglas G. Wills



Ray P. Womack  
James H. Workman

Not Pictured:

John M. Ayers  
Matthew P. Blackwell  
Dale W. Bryant  
John G. Canning  
Jerry M. Cole

James W. Collins  
George R. Cooper  
Sherrille L. Craig  
Charles C. Driscoll  
Robert H. Eanes, Jr.

Roger J. Glass  
Dan M. Lindamood, Jr.  
Dale A. Lusby  
Reginald L. Manley  
Wayne T. Massey

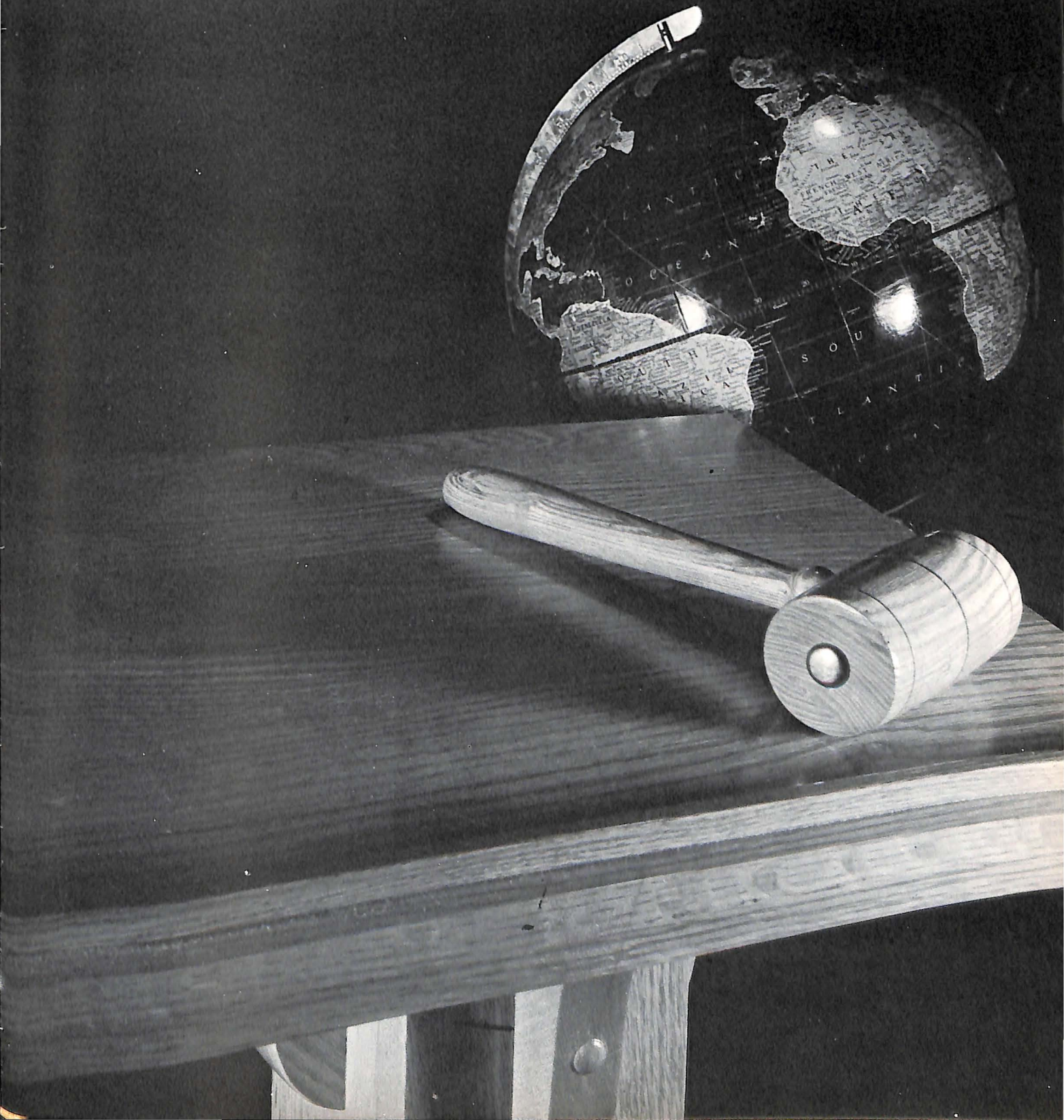
John H. Meador  
Buford L. Nichols  
Vernon H. Sutherland  
James D. Sutphin  
Edward W. Turpin

Now the time has come for us to part. We leave behind the treasured memories that have endeared us to our Alma Mater.

As we move on to blaze new trails, may we pause and cherish these memories once again through the activities and organizations that helped us to establish them.



# ACTIVITIES





## STUDENT COUNCIL

Very early in the life of the new school, the need for some form of student government became apparent. As time went by, and the students faced, or sometimes created new "problems", the widening gap between the student body and administration was evident. Someone implanted the idea of government and self discipline among the students. Soon, several leaders emerged, and Tech's embryo student governing body was formed. This interim committee composed of Ed Boyer, Lane Craig, Sam Guzman, Jimmy Layman, and Guy Sparks, was elected and empowered by the student body to act as a study group to determine the best type of government suitable for the group. Soon, with the very capable suggestions of Colonel Thomas I. Edgar, faculty advisor, the committee completed the study and presented its conclusions and a finished constitution to the student body for consideration. Shortly afterwards, the document was ratified unanimously at a special assembly of the student body.

The acting committee immediately set about conducting an election to determine the officers of the newly formed government as called for by the constitution.

In an interesting, well disciplined election, attended by the entire student body, the following students were chosen as officers of the STUDENT COUNCIL, the governing committee of the student body: Samuel M. Guzman, President; Jimmy N. Layman, Vice President; Barry Brown, Secretary; and Darryl Dellis, Treasurer.



At one of its first organizational meetings, the Student Council conceived and formed a working model of an Honor System. A special committee was appointed to insure its operation.

James Robertson, Clarence Tarpley, Roy Griggs, Jimmy Layman, and Sam Guzman, Chairman.



At a general meeting early in the year, the seniors decided, by majority vote, to have class rings made. A special committee was appointed to furnish a design. Jerry Johnston, Gary Spiers, and Roy Griggs did the original work on the design.

Roanoke Tech, again in a pioneering spirit aimed at promoting and encouraging high standards and ideals, has instituted a State Chapter of TAU ALPHA PI, a national organization devoted to the recognition of high scholastic achievement and service.

Membership in Tau Alpha Pi is by invitation, and is limited to those in the top four per cent of the Senior class.

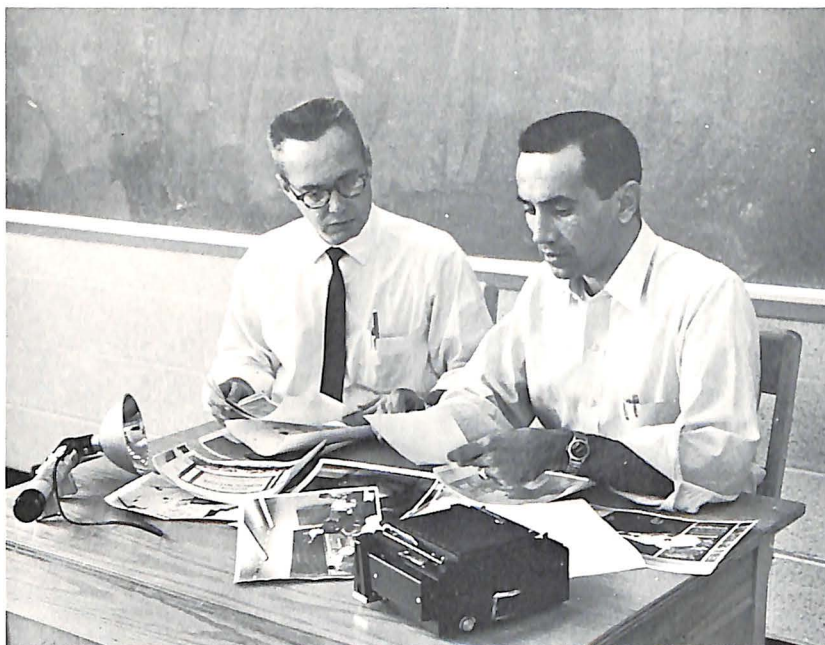
## NATIONAL HONOR SOCIETY

Charter members: Barry Brown, Ron Bryant, Roy Griggs, Tom Brogan, and Sam Guzman.



# *The Technician*

In an effort to record and reproduce a historical event verbally, much is lost in the telling. Therefore, some of the events and activities which took place during that time when the doors of Roanoke Tech first opened have been lost forever.



Mr. H. C. Quinn, faculty advisor; Sam Guzman, editor.

The yearbook staff, however, has spent many long hours of extremely satisfying work in an attempt to present to the student body a complete pictorial and written coverage, commensurate with the size of the book and available information, of the events and personalities that made up the 1962 - 1963 school year.

## YEARBOOK STAFF

Standing are Sam Guzman, John Lenzi, Boyd Hubbard, and Barry Walsh. Seated are Harold Mills, John Higgins, Wayne Massey, Ed Robertson, Jerry Warren, Bruce Bartley, Hamp Munsey, and Douglas Sutphin.



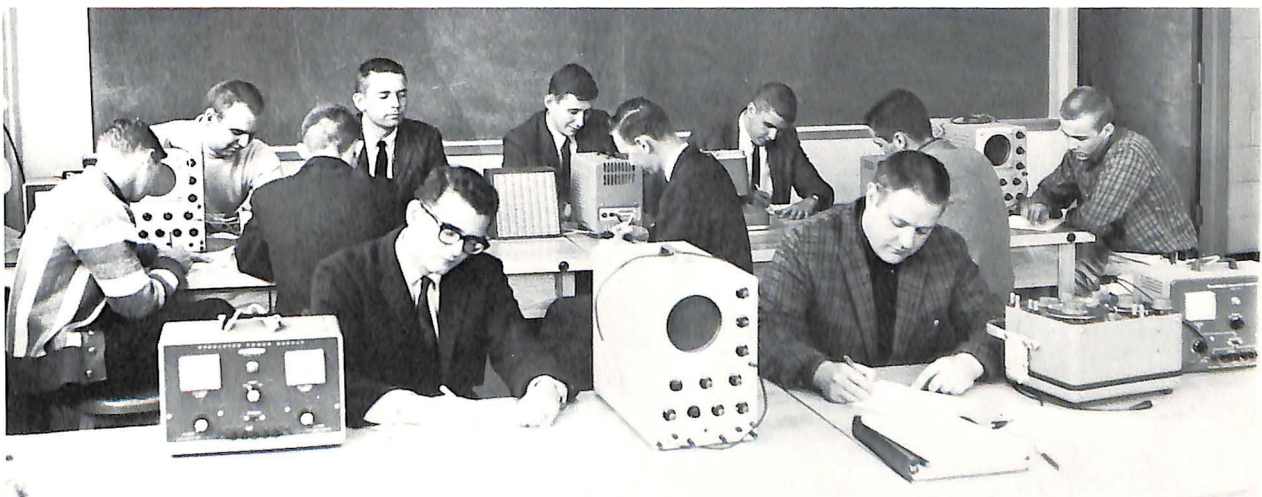


## AMATEUR RADIO CLUB

The Roanoke Tech Amateur Radio Society is a student organization devoted to improving the radio skills of its members, the advancement of amateur radio, and public service in time of need. In addition to its bi-weekly business meetings, the Society holds regular weekly meetings for the instruction of its members in radio theory and code proficiency. Facilities of the radio shack are also available to members for society-connected activities during their free time. These activities include anything from a delightful chat via the club's transceiver with a fellow ham in California, to building a power supply for one of the several receivers the club operates.

The officers and members of the Radio Club are as follows: Fred Berger, President; Dave Kegley, Vice-President; Woody Smith, Secretary-Treasurer; Bud Hogan, Joe Levin, Glen Diamond, David Moxley, Tommy Mitchell, Peyton Hash, Allen Thomas, Bill Hoffman, Bob Faris, David Kinsey, Tom Kanode.

Mr. Thomas L. Overby is the Faculty advisor.

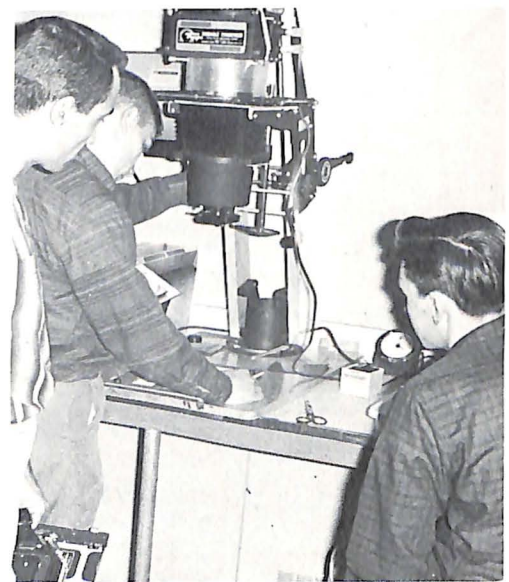




FRONT ROW: Roy Griggs, Joe Givens, Mr. Race, Sam Guzman. SECOND ROW: Jim Reynolds, Fred Berger, Woody Smith, Jimmy Layman, Allen Thomas. THIRD ROW: Robert Faris, Bill Mattox, Gerald Hogan.

## INSTITUTE OF RADIO ENGINEERS

One of the extra-curricular activities available to Electrical Students is membership in the IRE, Student branch of the Virginia Section. Mr. H. C. Race, who is the faculty advisor, was instrumental in forming the group.



## CAMERA CLUB

Despite a slow start and handicapped by inexperience, the Camera Club has accomplished a lot--from organizing and maintaining a darkroom, to furnishing the photographic work for two publications. Mr. D. E. Gryder is the faculty advisor.



# ADVERTISING

**HIGHLIGHTS**  
**NOW THEY STAND**

**ONE**  
*Mean*

**CLASS POT**  
**LET MARCH**

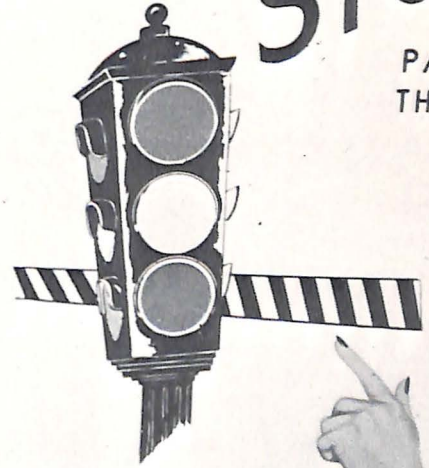
**Obituary**



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**THANKS**

*from the students of*



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**PATRONIZE THIS MERCHANT**



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**HELPED TO MAKE POSSIBLE**

**Advertising**

**IS CLOVER HIGH**

A collage of various images and text fragments, including a large photo of a group of people, smaller photos of individuals, and snippets of text from different sources.

**Two Best When Kilo's Hot Ships Sails Into 12th Row**

**1955 800 and 8000 Leaders**

## MEN OF PROGRESS

"The men most sought after today are those who have the qualities of self-reliance, courage, resourcefulness and independence of judgment that all through history have distinguished superior men from their inferiors. Business needs the contributions of men who can escape the bonds of conformity to recognize emerging new problems and offer fresh solutions. What is progress but successful adaptation to new problems and opportunities?"

From a Commencement Address by  
General Electric Vice President, Dr. George L. Haller

GENERAL  ELECTRIC

INDUSTRY CONTROL DEPARTMENT  
Salem, Virginia



## THE MOON... and beyond!

Bright, new horizons await today's students . . . new technologies . . . new medicines . . . even the moon and whatever lies beyond.

How far today's students go in this space age depends partly on their imagination but primarily on their training. Conquering new horizons will demand more of today's graduates — more knowledge, more skills, more training and more specialization.

Our Free Enterprise system, with its high living standards, gives everyone an opportunity to "shoot for the moon" in any field. Whether or not our target is reached depends on how well trained we are to launch ourselves.

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