


THE TECHNICIAN



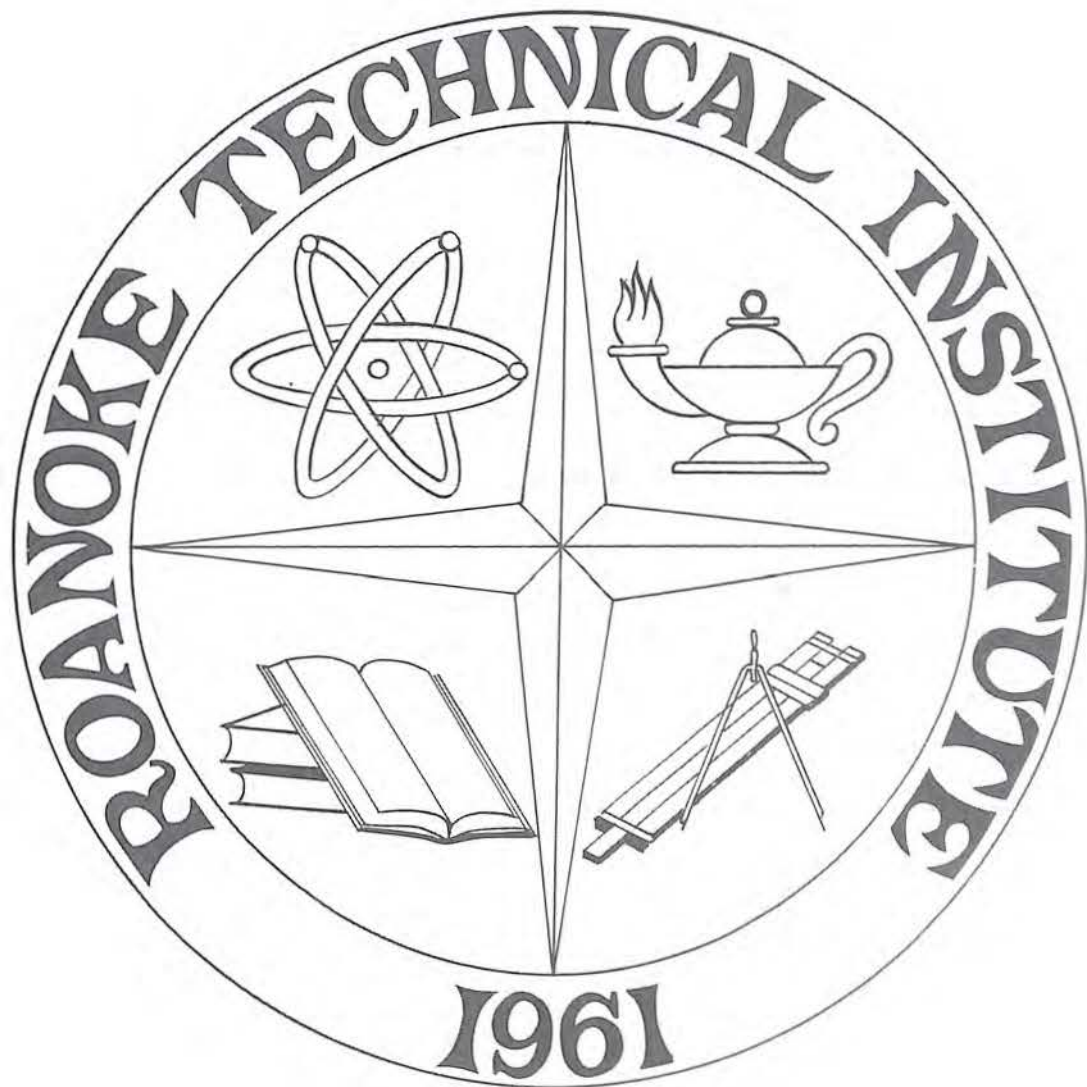






# *The Technician*

## *1964*



*ROANOKE TECHNICAL INSTITUTE*  
*ROANOKE, VIRGINIA*  
*VOLUME II*

Allen K. Thomas, Jr.  
Editor

Daniel E. Gryder  
Sponsor



## *FOREWORD*

These are the horizons that face us if we gaze from the windows of Roanoke Technical Institute; however the Class of 1964 has far greater horizons awaiting it upon graduation. Our future is indeed unlimited.

Roanoke Technical Institute has grown as we have grown over the two short years here. We, the Class of 1964, have seen the advancement made by our school and its administration and we have had the pleasure of being an integral part of this advancement.

Now we advance toward our personal horizons in three distinct steps; the assimilation of theoretical knowledge from our instructors, the acquisition of practical knowledge through the performance of laboratory experiments, and finally - the most important aspect in the realization of our goals - the attainment of the elusive ability to work and live in this world with our fellow man.

This, then, is the story of our hopes, our advancements, and our futures.

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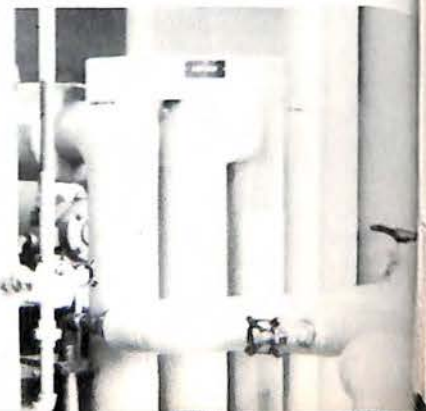
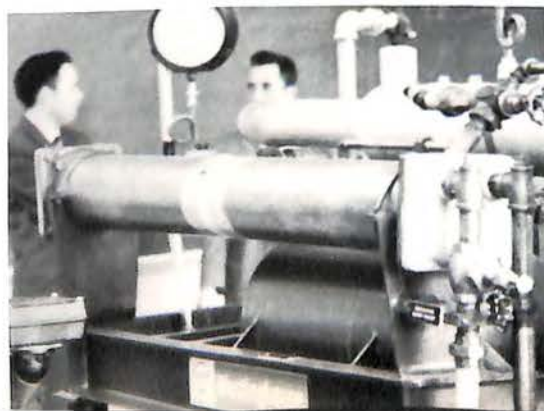
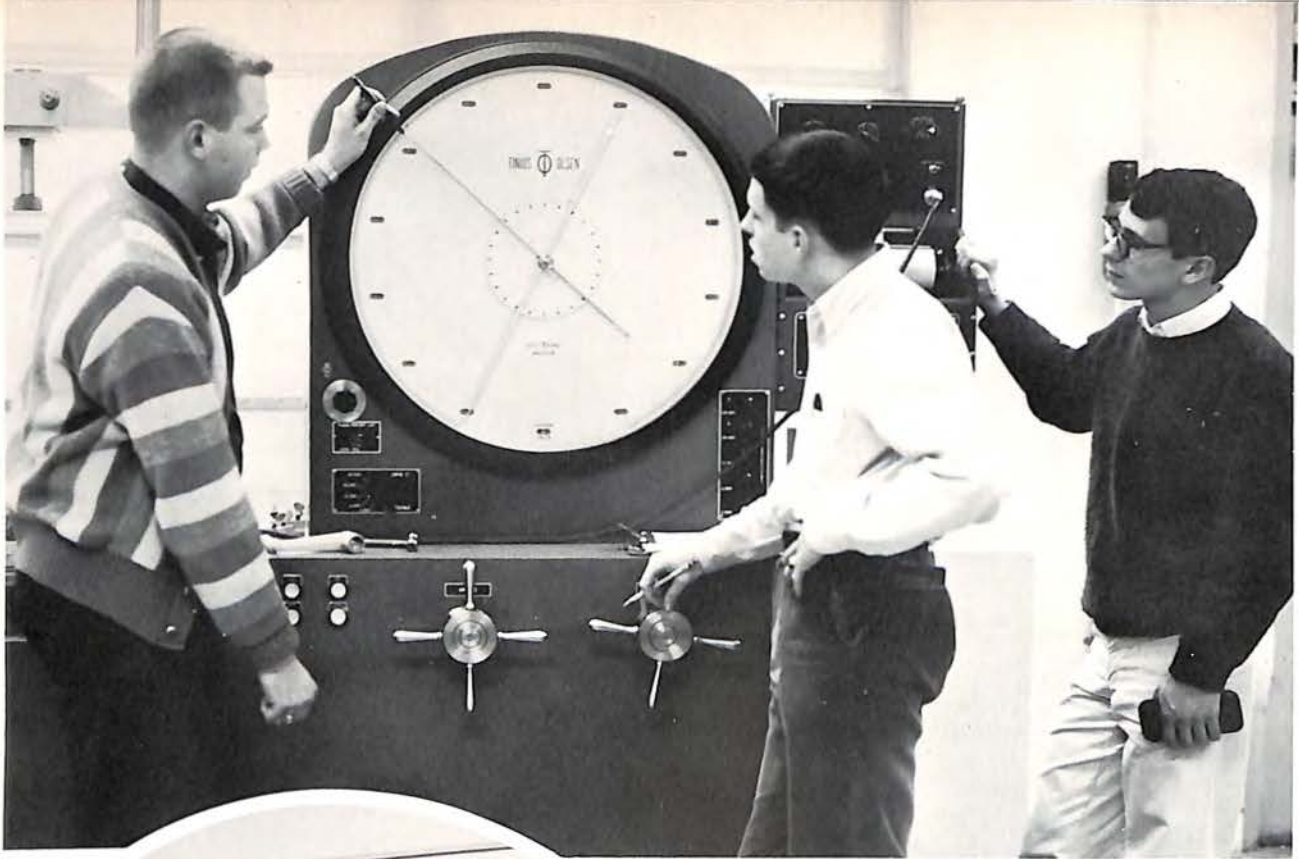
*ACTIVITIES*



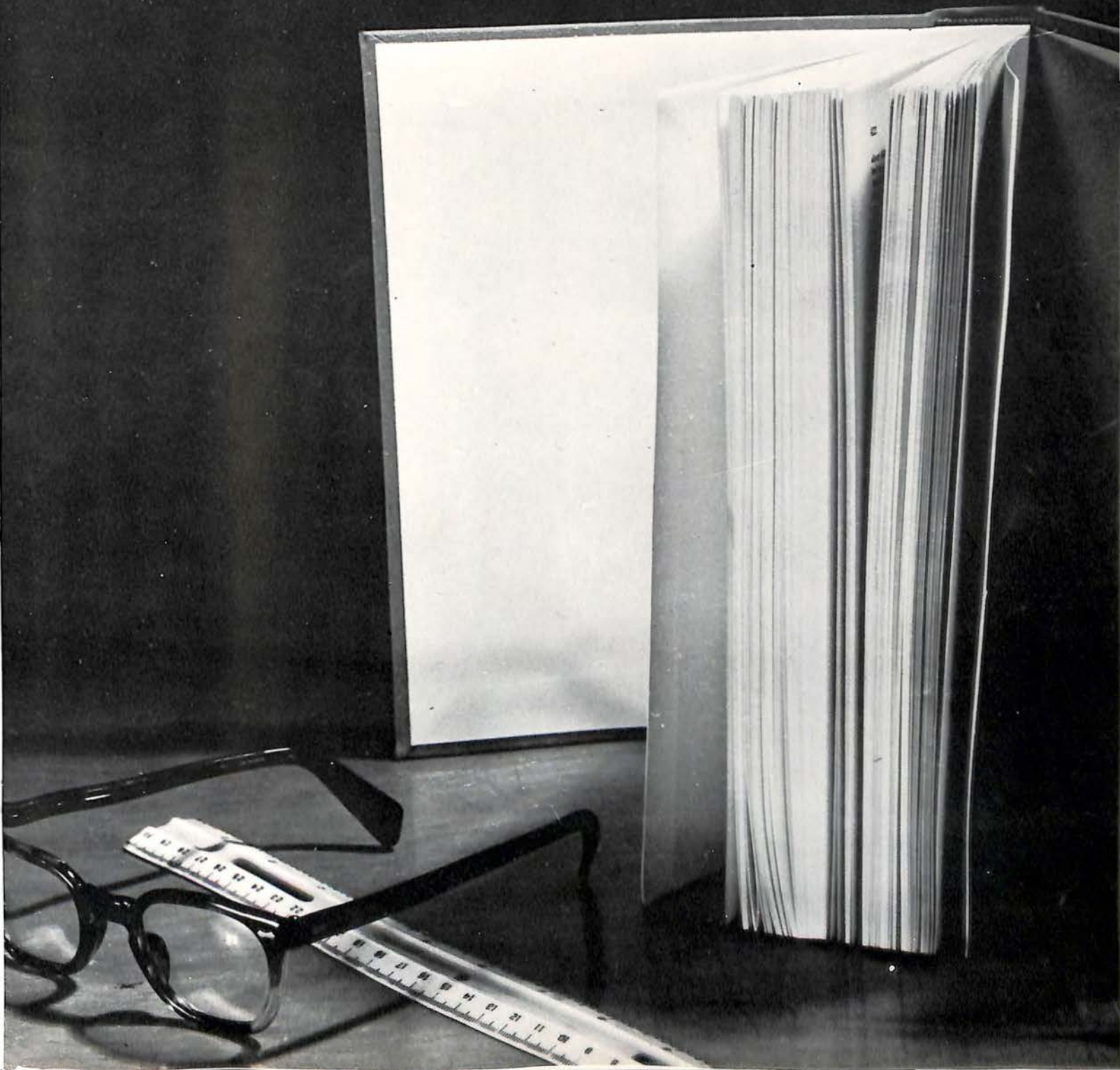








# *ADMINISTRATION*

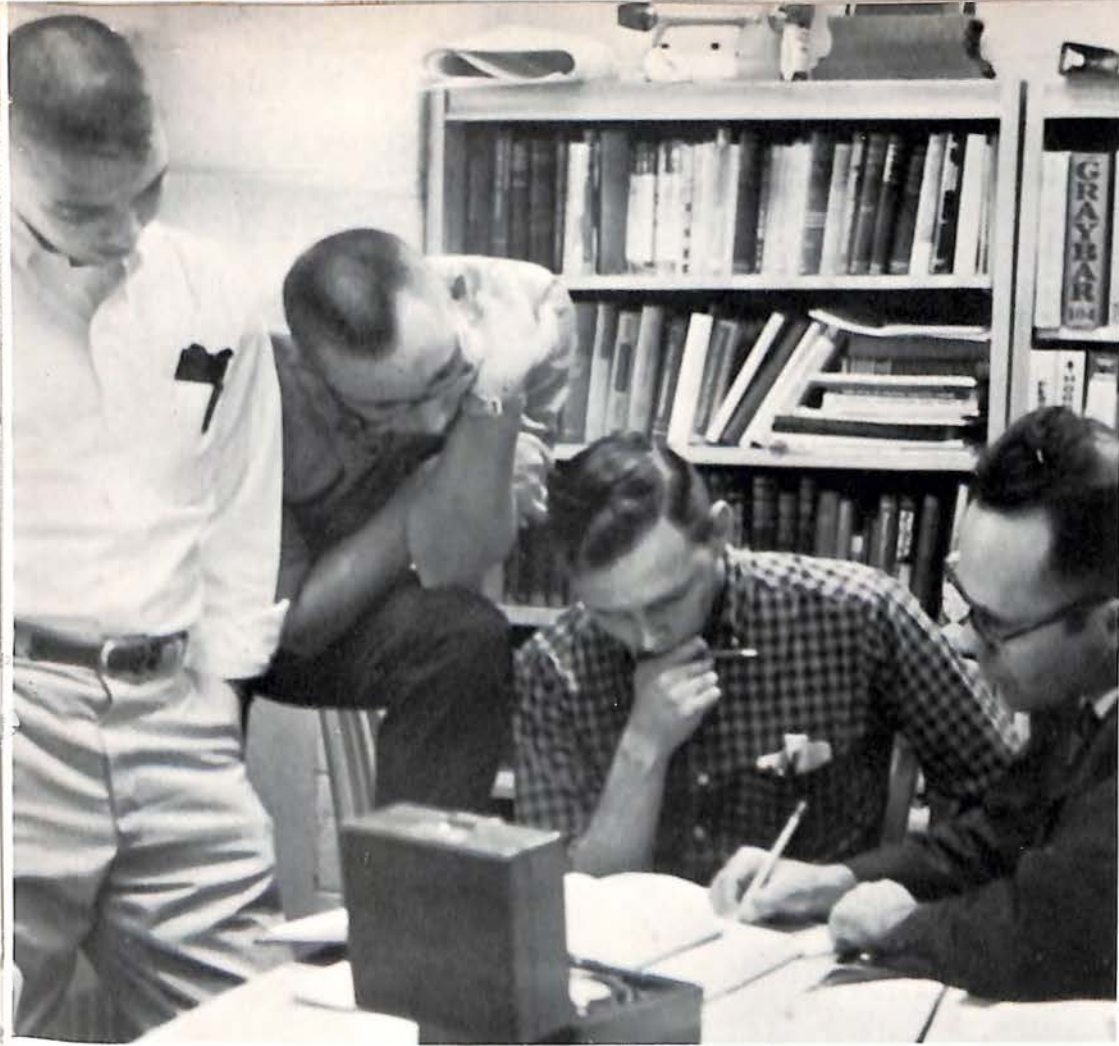




## *DEDICATION*

During our two years at Roanoke Tech there stands out in the minds of the Seniors one man who has been both an instructor and a friend to the students. During his three short years here he organized a Student Branch of the I E E E, and a chapter of TAU ALPHA PI, National Honor Society. He has been instrumental in setting up a curriculum we believe second to none.

We dedicate this the 1964 Technician to you - Mr. Harry C. Race.





DANA B. HAMEL, Ph. D., Ed. D.

Professor and Director of the Institute

A.B., Ashland, 1951

M.A., Ohio State, 1952

Ph. D., Ohio State, 1955

Ed. D., Cincinnati, 1962

Under the capable leadership of Dr. Dana Hamel, Roanoke Technical Institute has advanced to a respected member of the community. He is unceasing in his efforts to bring the name, Roanoke Tech., before the entire valley. If he is not behind his desk he is very likely behind a rostrum, speaking on the aspects and rewards of Roanoke Tech.

To you, Dr. Hamel, we offer our thanks for the interest you take in Roanoke Tech. and in each student.



HUGH B. PHELPS

Associate Professor and Head of  
Mechanical Technology

B. M. E., Clarkson College of  
Technology, 1950

M. M. E., Clarkson College of  
Technology, 1956



HARRY C. RACE

Associate Professor and Head of  
Electrical Technology

Dean of The Evening College

B. S., Northeastern University, 1942



H. CARLILE QUINN

Assistant Professor in English

Head of Admissions

Head of the Humanities

Head of Student Affairs

B. S., Virginia Polytechnic Institute, 1951

M. Ed., Virginia Polytechnic Institute, 1963



LOUISE CLENDENEN

PENNY McKAUGHAN



A warm thanks goes to both Miss Louise Clendenen and Mrs. Penny McKaughan. They have done an excellent job in maintaining the administration office. In addition to their regular duties, they also conduct a lost and found department and an "information booth".





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 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 co-ordinate 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.

## *ROANOKE TECHNICAL INSTITUTE*

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Stuart K. Cassell, Business Manager  
W. G. Worchester, Dean of Engineering  
Stuart B. Row, Coordinator of Branch Institutions



WILLIAM R. RICKETTS, JR.

Assistant Professor in  
Mathematics

B.S., Virginia Polytechnic  
Institute, 1956



PAUL H. SALES

Assistant Professor in  
Graphics

B.S., State Teachers  
College, 1955



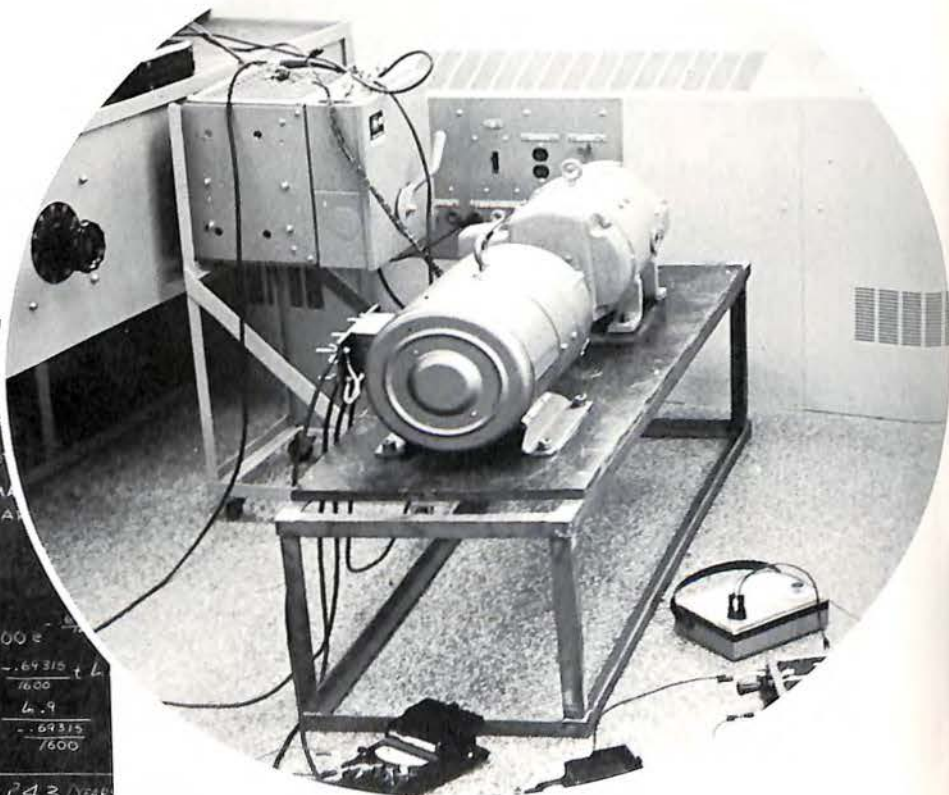
WALTER M. DENISON

Instructor in Physics

B.S., Roanoke College,  
1956

An Electronic Technician's Nightmare

Any Questions?



GENERATED  
ENDED BY THE

CALCULUS

PROBLEM: THE RATE AT WHICH A  
RADIUM DECOMPOSES IS AT ANY INSTANT  
PROPORTIONAL TO THE MASS THEN PRESENT, AND THE MASS  
DECREASES TO HALF ITS ORIGINAL VALUE  
IF INITIALLY A PIECE OF RADIUM HAS A MASS OF 100  
MILLIGRAMS, IN HOW MANY YEARS  
WILL THE MASS BE 90 MILLIGRAMS?

SOLUTION:

$$\frac{dm}{dt} = km$$

$$\int \frac{dm}{m} = \int k dt$$

$$\ln m = kt + C$$

$$\ln m_0 = k t_0 + C$$

$$\ln m_1 = k t_1 + C$$

$$\ln \frac{m_1}{m_0} = k(t_1 - t_0)$$

$$\ln \frac{m}{m_0} = kt$$

$$\frac{m}{m_0} = e^{kt}$$

$$m = m_0 e^{kt}$$

$$m = 100 e^{kt}$$

$$50 = 100 e^{k(40)}$$

$$\ln \frac{1}{2} = 1600 k$$

$$k = \frac{\ln \frac{1}{2}}{1600}$$

$$90 = 100 e^{kt}$$

$$\ln \frac{9}{10} = \frac{-0.64315}{1600} t$$

$$t = \frac{6.9}{-0.64315/1600}$$

$$t = 243 \text{ YEARS}$$

ROBERT D. FLOYD, JR.

Instructor in Physics

B.S., Lynchburg College, 1961



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Instructor in Mathematics

B.S., Wake Forest, 1956

CURTIS M. HARDY

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B.S., Virginia Polytechnic Institute,  
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B.S., (Sc.) Roanoke College, 1949

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1963

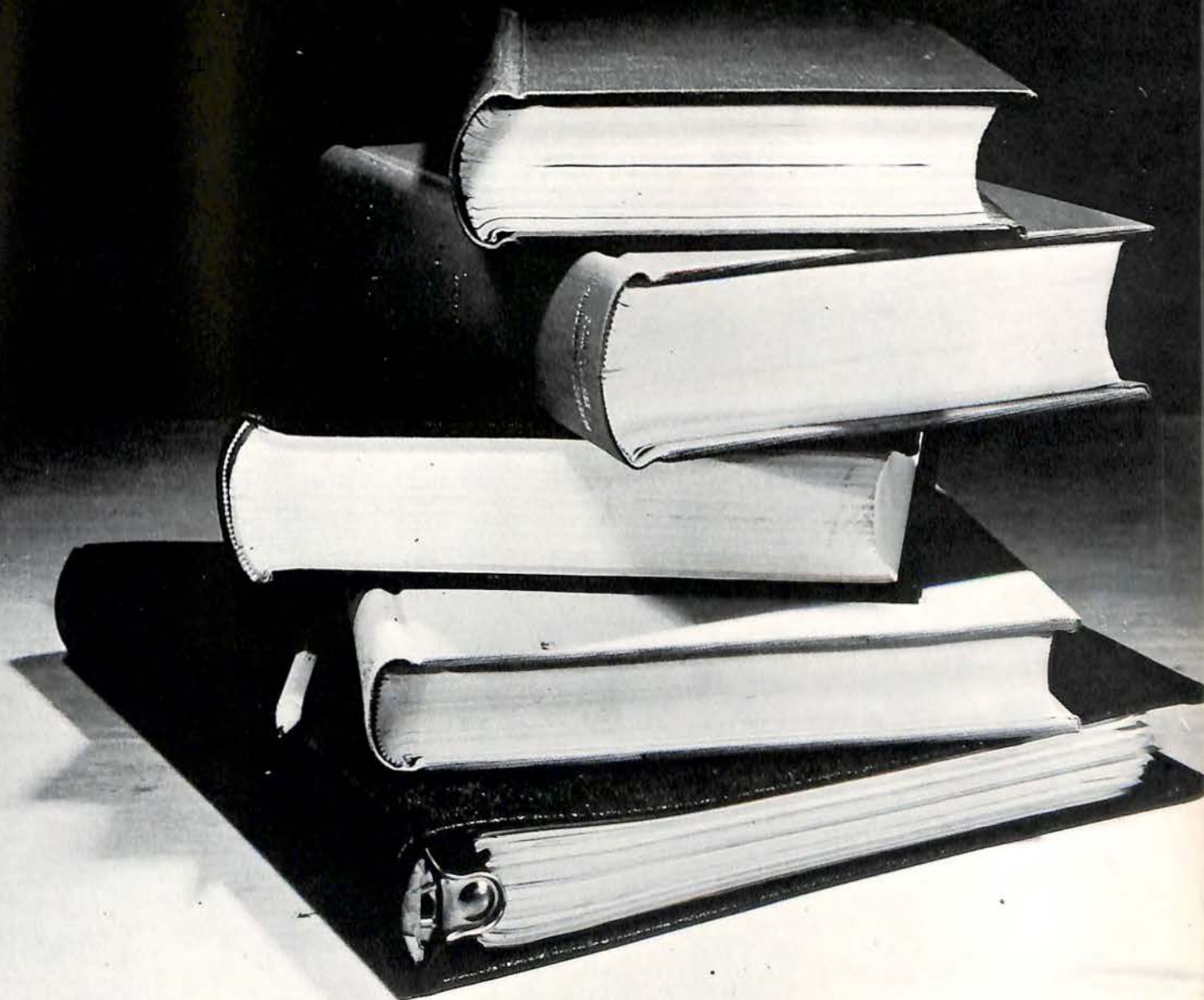


ROY L. GRIGGS

Shop Instructor

A.S., Roanoke Technical  
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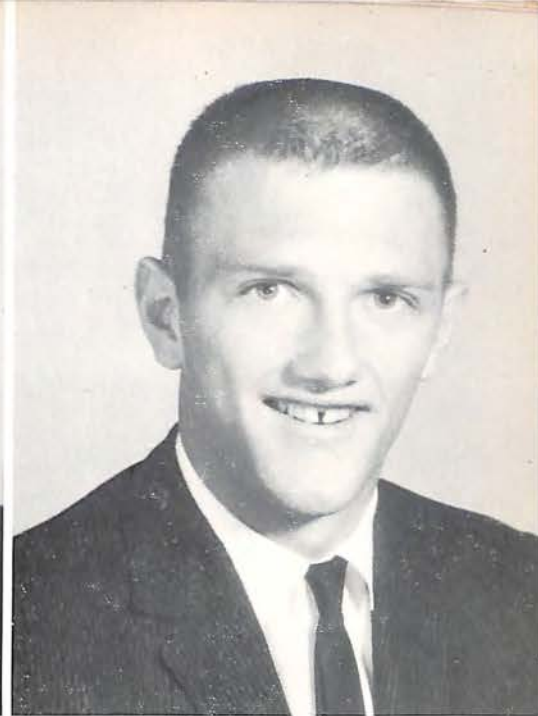
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RICHMOND, VIRGINIA

Tau Alpha Pi, Secretary; Yearbook Staff.

ROY PATRICK WOMACK

A. S. MECHANICAL

ROANOKE, VIRGINIA



# UNDERCLASSMEN



Paul C. Albert  
Bryon G. Amos  
Robert W. Atkinson



James W. Baker, Jr.  
Jerry E. Baker  
J. Patrick Banks



Loy N. Belcher  
James G. Biggers



Benton L. Bingham  
Frank O. Blevins





James N. Blount  
Roger A. Boone  
George P. Brevard



John M. Brooks  
Richard L. Brown  
Sidney M. Brown

Glen S. Buskill  
Thomas M. Calfee



Joseph W. Chitwood  
Wayne M. Collins



James H. Dick  
Roger G. Dodson  
Joseph M. Donkers



Arthur H. Ellis III  
Keith W. Evans  
Lewis S. Flowers



Douglas S. Foster  
John P. Griggs



Peter F. Guerrant  
Mark M. Guy



Cicero H. Hall  
Alvin D. Harris  
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Vernon E. Helms  
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Jerry G. Michael  
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Robert J. Moorman



James G. Morgan  
Clark T. Myers



Hampton C. Munsey, Jr.  
John W. Newman  
Jerry S. Noblitt



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Harry T. Obenchain  
Justin R. Orfield, Jr.



Douglas L. Padgett  
Richard G. Pettyjohn



Grover H. Quillen, Jr.  
Alfred H. Randolph



Richard A. Reed  
Richard H. Ruff  
Stephen A. Schultz



James C. Sears  
Burley C. Semones  
William D. Shumate

James E. Stephens  
Euel H. Stump, Jr.



Charles F. Thaxton  
Sherrill G. Thomas



Homer D. Thurman  
Steven C. Vaughan  
Newsom E. Via, Jr.



Benjamin T. Wade  
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Jackie D. Walters



Curtis L. Welcher  
Lawrence S. West, Jr.



John H. Widdifield  
Calvin O. Wilkerson





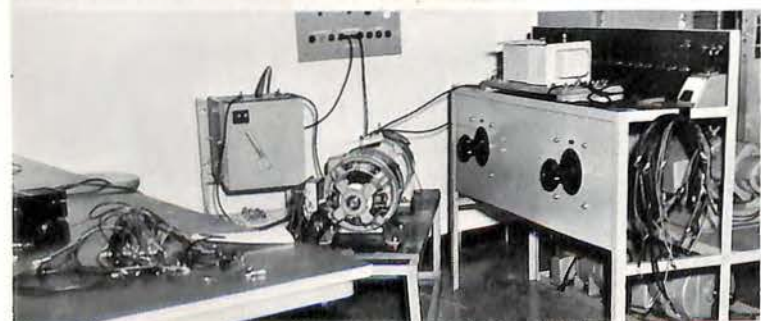
Raymond H. Williams  
Douglas G. Wills



James H. Wilson  
Charles S. Wiltsee



Ronald G. Wiseley  
William E. Wright



# *ACTIVITIES*





## *STUDENT COUNCIL*

Pictured Larry Reed, Secretary; Rodger Doss, Treasurer; John Griggs, Freshman Representative; Fred Berger, President; Lewis Layman, Vice-President; Butch Parrish, Mechanical Representative.

The Student Council is the student's governing body. Its activities include the sale of class rings and this year the council is planning a Ring Dance for the Seniors.

The council's main duty is to provide a sounding board for the students suggestions and also keep the students informed of the school's regulations.

# HONOR COURT

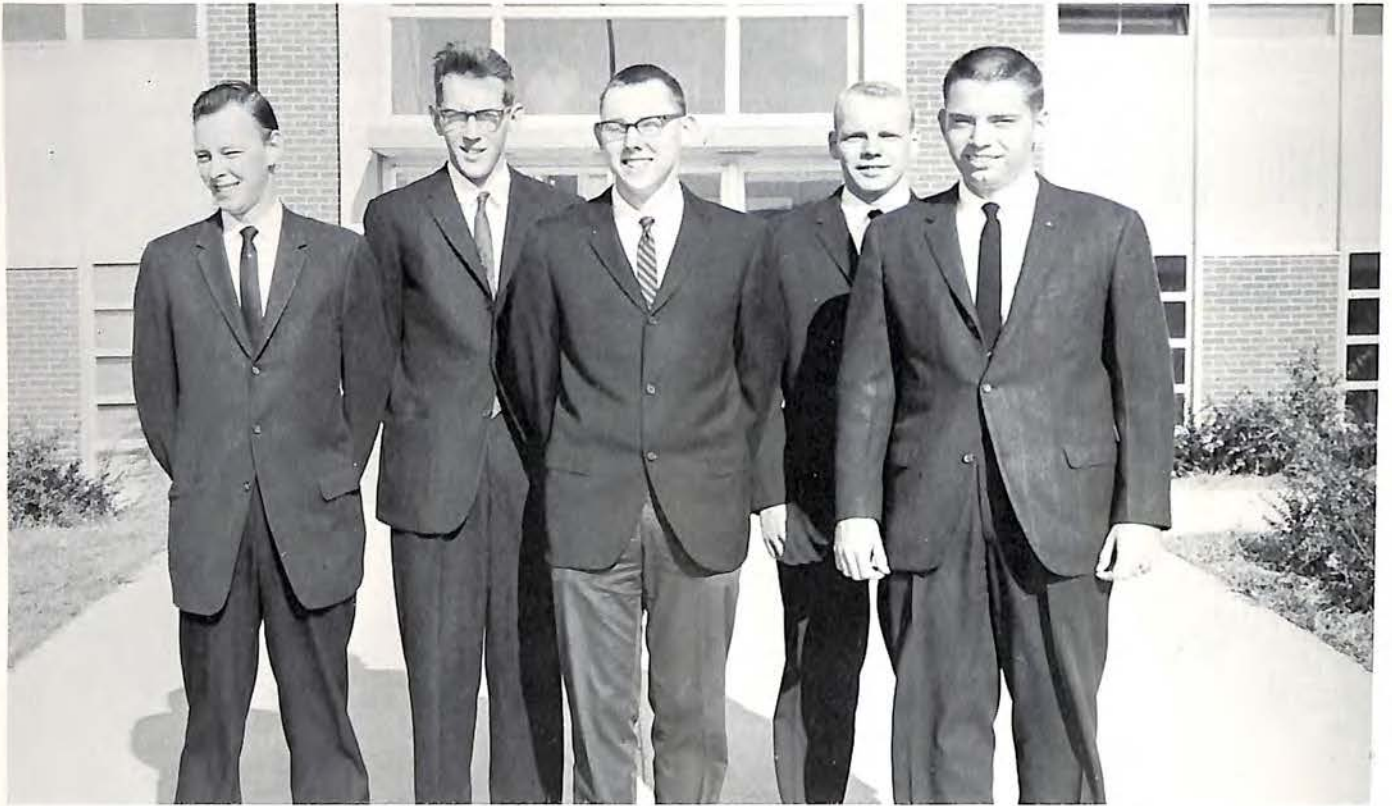


Richard Reed, John Griggs, Fred Berger, Butch Parrish, Rodger Doss, Larry Reed, David Kegley, Lewis Layman, Lewis Leffler, Pat Womack, John Newman.

The Honor Court, organized this year, is based upon the following three beliefs:

- (1) To trust a man or woman is to make him or her worthy of that trust.
- (2) No gentleman or lady will lie, cheat, or steal.
- (3) Every student is a gentleman or a lady.

Through the Honor Court, a great responsibility is placed upon the student in governing his personal conduct.



## *TAU ALPHA PI*

The officers are as follows: Allen K. Thomas, President; Robert Faris, Public Relations; G. Lewis Layman, Vice-President; Jerry Warren, Secretary; A. Frederick Berger, Jr., Treasurer.

At Roanoke Tech, high standards and ideals are promoted and encouraged through a State Chapter of TAU ALPHA PI, a national organization dedicated to the recognition of high scholastic achievement and service.

Membership in TAU ALPHA PI is by invitation and a candidate must participate in school activities and have an outstanding academic record.

## *“THE TECHNICIAN” STAFF*



Jerry Warren, Bud Hogan, Lawrence West, John Lenzi, Bob Faris, Joe Givens, Hampton Munsey, Allen Thomas, Benton Bingham.

The yearbook staff has worked diligently this year to bring you the best possible book. We have attempted to record the events and personalities that made up the 1963 - 1964 school year.

The staff wishes to take this opportunity to thank the administration for their aid and guidance, the Photo Club for their excellent work in producing the photographs used and the entire student body for their support in bringing forth the 1964 Technician.



## *ROANOKE TECH AMATEUR RADIO ASSOC.*

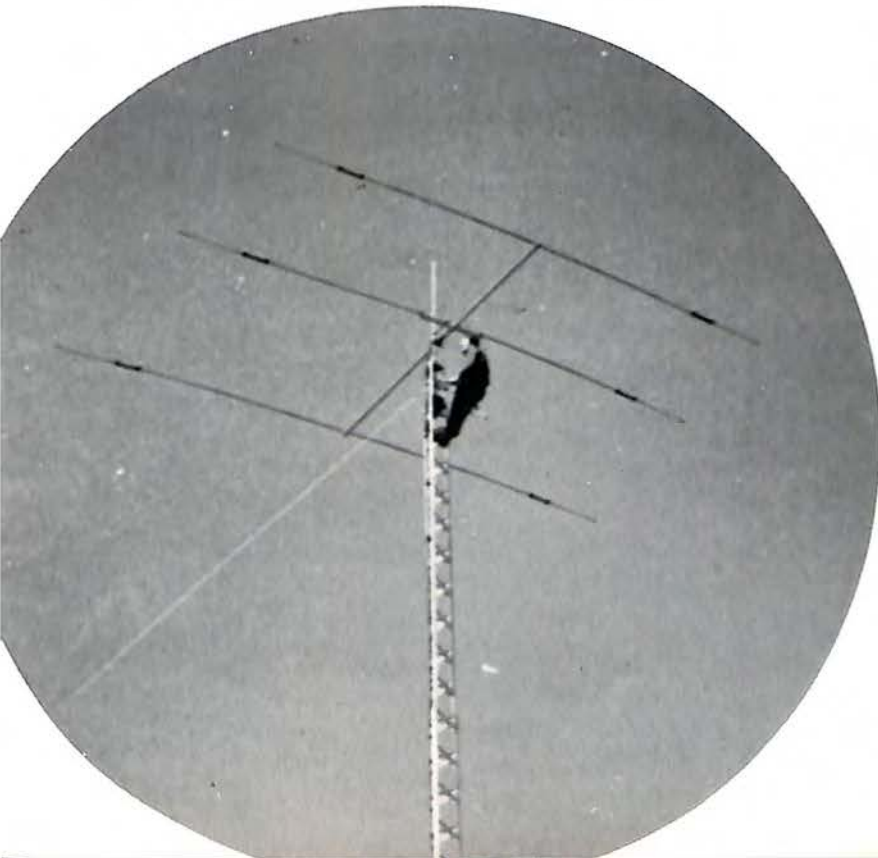
The Roanoke Tech Amateur Radio Association is a student organization devoted to improving the radio skills of its members, the advancement of amateur radio and public service in time of need. The club holds bi-weekly business meetings, and in addition has available code tapes for those members who are working towards their licenses. Facilities of the radio shack are available to members for association-connected activities during their free time.

The officers and members are as follows: Tom Kanode, President; Bill Hoffman, Vice-President; Allen Thomas, Secretary; Glenn Diamond, Treasurer; Joe Lodge, David Kinsey, David Kegley, Waldo Hicks, David Moxley, Benjamin Wade, James Overfelt, Keith Evans, Charles Towels, Steve Vaughan, Fred Berger, Bud Hogan, Bob Faris.





What goes up . . . sometimes comes down



# IEEE



David Kinsey, Donald Smith, Thomas Mitchell, Secretary-Treasurer; Joe Givens, Mr. Harry C. Race, Faculty Advisor; Rodger Doss, David Kegley, President; Allen Thomas, Fred Berger, Bill Hoffman, Jerry Cole, Vice-President; Marty Robinson, Glenn Diamond, Larry Reed, Lewis Layman, Benton Bingham, Tom Kanode, William Aldredge, John Lenzi, Bob Faris, Wallace Jamison, Hampton Munsey, Boyd Hubbard, David Moxley, Maurice Goad, Bud Hogan.

The members of I.E.E.E. Student Branch at Roanoke Tech belong to the largest engineering society in the world. There are over 27,000 student members.

The Student Branch of I.E.E.E. does not supplement, nor does it supplant studies, but rather it serves to enhance education.



One of the important functions of I.E.E.E. is the continuing education of its members, by technical meetings on local and national levels and by journals.

The members of the Student Branch receive these benefits plus the opportunity to have local engineers speak at Branch meetings and to take field trips to nearby firms and manufacturers of electronic equipment. These talks and trips usually serve to emphasize in a concrete manner, the theory of electricity and electronics the student studies in the classroom.

The student member of the I.E.E.E. is further aided in his quest for knowledge by the **STUDENT JOURNAL** published by the parent organization strictly for students. This magazine features articles both of the technical and nontechnical nature written by men who are experts in their field. Papers of general interest prepared by qualified students are also published.





## *PHOTO CLUB*

Tom Crawford, Barry Walsh, Dick Steen, Jay Bennetch, John Brooks, Lewis Leffler, John Lenzi, David Kegley, James Dick, Bob Derenge, John Newman, Steve Brown, Homer Thurman, Carroll Rush, Mark Grey.

The main purpose of the Roanoke Tech Photography Club is to acquaint the students with a technical knowledge of photography. The student learns how photography is used in industry to convey a message which would be inadequate with just words. Many types of photography are covered, ranging from microscopic to telescopic. The student is familiarized with the use of different cameras. He also learns how to compose pictures and the process of developing and printing. Fully equipped developing and printing rooms are provided for this purpose.



## CAVE-CLUB



Steve Vaughan, Jim Biggers, James Overfelt, Keith Evans, Bud Hogan.

A newly organized club this year, the Cave Club, was formed to provide a knowledge of underground caverns and related activities. The group visits the surrounding area entering caves and observing the various formations. Through this process an understanding of nature's wonders is gained.



## *ASTME*

The ASTME is a national organization composed of members who deal primarily with the application of manufacturing engineering. This college chapter composed of mechanical engineering technology students whose interests lie in the field of manufacturing. All students holding membership in the college chapter are considered as junior members. They attend the senior chapter's meetings, seminars and conferences. An opportunity is afforded the student to associate with men who are now doing jobs similar to those the students will fill in the future.

# ADVERTISING

HEY KIDS...  
**STOP!**  
PATRONIZE  
THIS MERCHANT

**STOP!**  
PATRONIZE  
THIS ADVERTISER

THANKS  
from the students of

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AN AD FROM US

...HELPED TO MAKE  
...POSSIBLE

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...Without these figures, we would be...  
...a notebook at a reasonable price. We...  
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...of approximately 25,000, in...  
...and individuals who...  
...to a total

**CLOVER HIGH**



## 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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# CONGRATULATIONS

TO THE CLASS OF 1964



# GOOD LUCK

TO THE CLASS OF '64



## today's busy people...

... take to more-than-refreshing Dr Pepper. It's different... a happy, harmonious blend of deep fruit flavors. Goes everywhere, tastes great, and Dr Pepper has a built-in energy lift. That's why today's busy people like it. Have a Dr Pepper... today.



*Funtime. anytime is Dr Pepper time!*







