

This Website serves as a tribute to the Pioneering and Technological Visions of

#### Dr. William M. Brish

Superintendent of Public Schools 1947 – 1973 Washington County , Maryland





Once, a National leader of pioneering Instructional Television in K-12 school classrooms - now, the Washington County school district shows little evidence that a skilled staff of hundreds, operating five television studios, for a period of over forty years, created "live, and videotaped" television lessons, contributing to the education of thousands of students.

#### **BIOGRAPHY:**

#### Dr. William M. Brish

William M. Brish was born September 6, 1906 in Frederick, Maryland. He graduated from Frederick High School in 1924. He received an AB degree from Franklin and Marshall College in 1928, a master's degree for Teacher's College, Columbia University in 1932 and a doctor of Pedagogy degree from Franklin and Marshall in 1956. He did some additional graduate work at George Washington University.

Brish began his career as a history and science teacher at Thurmont and Frederick (MD) High Schools. He subsequently served as principal of Elm Street School in Frederick, Maryland. Prior to his time as superintendent in Washington County, he was the Assistant Superintendent of Schools for Prince George's County and then Superintendent of Schools in Kent County.

He served as the Superintendent of Schools for Washington County (MD) from 1947 to 1973. <u>During his tenure</u>, the Washington County closed-circuit television program was developed and instituted. <u>Brish became known as an expert in using television for instructional purp</u>oses.

As a result of the closed-circuit program, Washington County was selected by the U.S.government to partner with Nigeria's education system in developing instructional television. Brish was the home base coordinator for the U.S.A.I.D. Modern Aids to Education Project for Nigeria from 1963 to 1969. Dr. Brish also served as a consultant in educational television for All India Radio as a part of a Ford Foundation project (1950-1961) and for several workshops atuniversities in the United States (1957-1960).

After his retirement from Washington County Schools, Brish was a cluster director(1973-1975) and then consultant for the Appalachian satellite project from 1976 to 1987 (AESP -Appalachian Educational Satellite Project, ACSN - Appalachian Community Service Network). An active member in his community, he served on theboards of the Hagerstown Chamber of Commerce, Washington County Free Library, Washington County Museum of Fine Arts, Mason-Dixon Council, and Boy Scouts of America.

Dr. Brish left a legacy in Washington County beyond his work as superintendent. As a result of his involvement in developing the Hagerstown Junior College which is now the Hagerstown Community College, the college library is named after him as well as the local planetarium.

William Brish died June 1, 1999.

In August 2006, a 50 th Year Reunion was held in Hagerstown, Maryland. More than two-hundred former employees attended -- including a number of pioneer employees who kicked-off the Educational Television Project in 1957.

Come join us again on September 27, 2008.

Contact us by telephone: Downs Hewitt – 301-582-2837 Nancy Bushey – 301-665-1312

Or E-mail: Jim Eckel: mailto:eckel18335@aol.com

This Website is provided and mastered by

Mr. Greg Keefer, a 34+ years employee of the Publications Department of Washington County, Maryland Public Schools.

# Celebrate a 2nd Reunion of Former Employees of Educational Television in Washington County Public Schools.

The Reunion is planned for September 27, 2008 for all former employees of the Television Center . 1956 – 2000

When: September 27, 2008 (Saturday) 4:00 PM - Doors Open 6:30 PM - Dinner Buffet

Where: Elks Lodge No. 378, 11063 Robinwood Drive, Hagerstown, Maryland

Why: - To fellowship with former co-workers of The Washington County Educational

Television System: TV Administrators; Teachers; Directors; A/V Engineers; Studio Crew;

Artists; TV Maintenance; Clerical and Publications Technicians

- To recognize the contributions made by all who participated in this pioneering experiment.
- To share fond memories with old friends and memorabilia that you are welcome to bring with you.

Your reservation and check must be received by September 1st 2008
Print, Clip and Mail this Portion To:
Mr. Downs Hewitt - 11241 Marbern Road , Hagerstown , Maryland 21740
Make check payable to: "TVCRC" - or - TV Center Reunion Committee
Your Name
Guest:
What Job did you perform at the TV Center?
During what year(s) ?
Telephone e-mail
\$25.00 Reservation for one (includes meal, tax and gratuity) \$45.00 Reservation for two (Includes meal, tax and gratuity)

#### **Questions please contact:**

Nancy Bushey at 301-665-1312 -or- Downs Hewitt at 301-582-2837

#### A Message From Superintendent Brish- 1963

The use of instructional television in county schools began in September, 1956, and has continued as an integral part of the instructional program.

The results of a five-year study, The Washington County Closed-Circuit Educational Television Project (1956-61), are described in this report. The project was sponsored by the Electronic Industries Association and the Fund for the Advancement of Education of the Ford Foundation, assisted by the Chesapeake and Potomac Telephone Company.

Since our school system had the unique opportunity to work with television in major subject areas at all grade levels in successive years, we are often asked to point out the most significant achievement of the project. While we may seem to oversimplify the findings, we believe that the use of instructional television has stimulated teachers, supervisors, and administrators to examine more closely the teaching-learning process and to pursue curriculum development with a new interest.

Early in the project it became evident that the important issue was not whether television should be used for direct instruction but how it should be used and what it could contribute to the improvement of instruction.

As a result, the curriculum is being continually revised and extended, teaching procedure studied, and achievement evaluated. Instructional television is regarded not as a "substitute", but as a valuable addition to the school program.

While much has been accomplished and substantial progress made in using television in the schools of Washington County, there is need for further study, analysis, and evaluation.

Television has been accepted as an important educational resource.
Instructional television is a regular part of the school program and is now being used on an even broader scale than during the project. School staffs feel that instruction has been strengthened, pupil educational opportunity broadened, and achievement improved. All this has been accomplished by regular school personnel with a minimum of outside technical assistance. Savings resulting from the redeployment of personnel, equipment, and facilities, rather than additional funds, are being used to meet the costs.

We in Washington County are, therefore, convinced that television has a definite place in the program, and, if properly used, can add a new dimension to education.

Dr. William M. Brish - Superintendent of Schools

# 50 YEARS OF INSTRUCTIONAL TELEVISION IN WASHINGTON COUNTY, MARYLAND

#### A HISTORICAL TIMELINE - 1956 - 2006

### (I) WASHINGTON COUNTY CLOSED-CIRCUIT EDUCATIONAL TELEVISION SYSTEM

#### 1956 -

Superintendent of Schools, William M. Brish has a vision to experiment with Televised Instruction.

- Ford Foundation sponsors the "Pioneering Experiment"- 2 million dollars, 6- year term.
- A Co-axial Cable system is designed by Bell Telephone Corp. and constructed connecting a few schools.
- First Telecasts are conducted "Live" using remote trailer facilities.
- Five fully equipped (audio/video) TV Studios are constructed each with two black and white cameras, two camera operators, one floor manager, two audio-video operators, and one television director.
- Mr. T. Wilson Cahall coordinates the television Instruction facilities.

#### 1957 - 1958

Closed-Circuit Cable System is expanded to all Hagerstown area Schools – Employing 20+ Teachers

Mr. Stanley Johnson, and Mrs. Marjorie E. Hoachlander – Television Production Supervisors

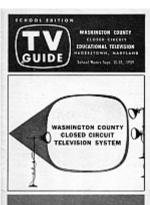
- Triangle Publications (TV Guide) produces a weekly TV Guide for the school district.
- Students in all grade levels are receiving "Live"- televised instruction.
- Classroom teachers help to write curriculum and assist each student with the classroom lesson.
- Instructional graphics are designed by staff artists -- 16 mm films, photographs and slides enhance televised instruction.

# Additional Televised Courses, Teachers, Television Directors, audio/video studio production Crewmembers are employed.

- Hagerstown Junior College Students, enrolled in the "Communications Course" are employed as part-time Crewmembers at the television studios.
- School students learning skills/abilities are evaluated.
- Ampex, Corp. donated a 2-inch VideoTape
  Machine to the TV Center. some telecasts
  are videotaped for teachers to evaluate
  themselves, and for archival purposes not
  for transmitting at this time.



Reading left to right from the back row: Mr. Mittel, Mr. Etchison, Mr. Davis, Mr/
Powell, Mr. Hewitt, Mrs. Robeson, Miss Nuce, Mrs. Snively, Mr.Kercheval, Mr. Lizer,
Mrs. Schroyer, Mrs. Allison, Mr. Roberts, Mr. Brish, Mr. Hull, Miss Martin, Miss
Cushen, Mrs. Clopper, Mrs. Davidsen, Mrs. Guyton, Miss Donnelly, Mrs. Heltzel,
Mrs. Hesson



#### 1959 - 1963

The Closed-Circuit Television Network is completed – connecting all district schools.

Mr. Robert F. Leasure coordinates the television Instruction facilities

**Mr. George Ropp i**s Principal of Television Teachers and supervises the Graphic Arts Support Staff of (3)

**Mr. Sam Wagaman** – Assistant Television Production Supervisor.

**Mr. James Spear** – joins the Production Supervisor Team.

# To improve the professional quality of Televised Courses - skilled, full-time personnel are retained and hired

- Artists, Photographer, Television Directors and most A/V operators are full-time employed – other parttime college student crewmembers rotate in and out each year.
- A Television maintenance and A/V services department is established.
- A Clerical staff is added to facilitate the typing of television scripts and publications.
- School students learning skills/abilities continue to be evaluated.
- Another 2-inch Ampex Tape machine was donated.
   some courses are videotaped and lesson series televised.
- Washington County School District now funds the full Educational Television budget.
- Bell Telephone Corp. charges an annual rental fee (\$156,000) for use of co-axial cable network connecting all district schools.
- Public Taxpayers begin to complain about "costs" of teaching with television.

#### 1964 - 1967

# New Facilities (Central Resource Center) are renovated and constructed for Television Teachers, Graphic Arts, Photography, and Printing/Publications personnel.

- Air Conditioning was added to all facilities.
- A Television maintenance and A/V services facility is constructed
- A new building is constructed for TV Teachers offices.
- A 16 mm and still Photography studio and darkroom is constructed.
- A Title III (Federal Government funded, 3-year, Project) began to produce 16 mm film productions for instructional purposes, and to produce and evaluate Televised Instruction.



#### 1968 - 1973

Dr. William Brish retires in 1973 after overseeing his successful Television Project for 17 years.

- The Resource Center" concept is developed. Combining Television, Library, Graphic Arts, Photography, and Instructional Materials Departments.
- A staff of 30 + Television Teachers continue to produce live and videotaped, lessons for classroom instruction (in black and white format).
- A videotape remote camera system is purchased to supplement the productions.

The Title III project ends in 1970 after a thorough evaluation – finding that Television is a

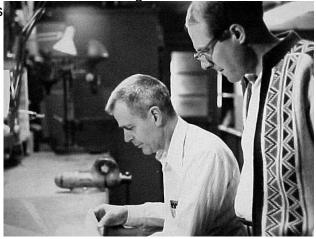
successful instructional tool for classroom teachers

to use.

The public (taxpayers) continue to complain about the growth and costs of "teaching with television."

#### 1973 - Dr. Claude Kitchens - new Superintendent of Schools, upgrades and restructures the Television **Production System.**

- Citizen Committees evaluate Educational Television System and make specific recommendations for improvements and cutting costs.
- Robert Leasure, Coordinator of Television and George Ropp, Television Utilization Specialist retire.



#### (II) WASHINGTON COUNTY INSTRUCTIONAL RESOURCE CENTER

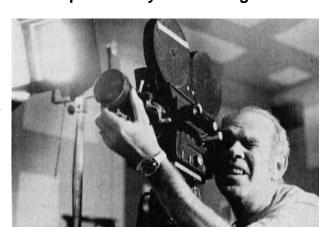
#### 1974 - 1979

Mr. Richard Predmore becomes Coordinator of Television and implements changes –

- Washington County Closed-Circuit Television becomes WASHINGTON COUNTY **INSTRUCTIONAL RESOURCE CENTER (IRC).**
- The IRC incorporated the following departments: Instructional Television Production. Television Maintenance, Central Office Library, Graphic Arts, Photography, Instructional Materials Lab, and Printing/Publications Services.
- A system of transporting Videotaped Lessons to and from schools was developed.
- 1977 The Closed-Circuit cable network was no longer **needed and was eliminated.** – saving \$240,000 per year.
- 1977-1978 Studio Production Equipment was upgraded to "Color Productions." - a major improvement for instruction. - special effects switcher, Character Generator, color camcorder remote system.
- Emphasis was placed on "professional quality productions" and wages were compensated accordingly.
- A large number of Video Tape Recorders were purchased to produce and duplicate the instructional lessons.

1978 - Changes in the use of television have also taken place this year. No longer are programs produced live and no longer is

television used in large, combined classes. Programs are being produced in both color and black and white. Students today have the advantage of small-group or individual presentations. Television teacher visitations and a new concept - instant replay on a videocassette machine - are available. Programs developed in the television studios are recorded on videocassettes and sent to all schools. Teachers



utilize and control these cassettes in classrooms. Lessons are telecast to meet the school schedules, but teachers can request replay at any time.

- A VideoTape Library was established to catalog and retrieve for classroom teachers.
- **Professional quality** was such that local businesses and National Corporations contracted with Washington County to produce custom Videotapes for their use.
- An agent was contracted to "Market/sell" our Instructional Lessons Series to other School Districts.
- The Library of videotaped Lessons grew to the point that certain Television Instructors, Administrators, support personnel and (3) Television Studios were no longer needed. They were reduced each year.
- All of the "Predmore" changes seemed to satisfy the "Public Pressure" to reduce the Television budget – thereby, "extending the life" of television production services while improving their quality.

## ( III ) WASHINGTON COUNTY INSTRUCTIONAL TELEVISION SERVICES

1980 - 1992

Mr. Richard Whisner – then - Dr. Wayne Gersen becomes Superintendent of Schools

 Due to the Department of Instructional reorganization, The IRC terminology is eliminated and each department is incorporated under various management

#### Mr. William Kercheval becomes Supervisor of Televised Instruction

- Television Studio Production, Television Maintenance, Videotape Room Operations, Graphic Arts Instructional Materials come under the "Division of Instructional Television."
- Two large television studios continue to create professional Instructional Television Productions – Elementary Art, Music, Washington County Social Studies and History; Secondary Math, Science, Social Studies, Citizenship, and "Let's View The News." (a popular student production)
- Television Videotape Remote Crews were formed and used on a regular basis.
- Business Contracts were entered with: Washington County Extension Service; The Smithsonian Institute; Dr. Ted Brown, Entertainment Associates; ESOL (English Speakers of Other Languages) and others.
- Product Sales increased until (20) school districts and (5) State-wide Networks across the nation repeatedly purchased Washington County School District Instructional Television Lesson Packages.
- IATV- Interactive Television (twoway televised communication between classroom students and teachers) is begun using microwave/antennas transmissions.
- Once again, The Library of videotaped Lessons grew to the point



that - certain Television Instructors and support personnel were no longer needed. – They were reduced each year.

- 1984-1985 A very small ITV staff remains Two Television Teachers, One TV Director remains. Lesson Series are produced this year and inserted into the curriculum the next year.
- Classroom teachers continued to utilize the videotape library on a daily basis but, they no longer requested "new productions."
- The Elected Board of Education began a systematic reduction of television production services for budgetary reasons.
- Satellite TV, Maryland ITV, and Cable TV Productions were scheduled for receiving, videotaping and supplying to classroom teachers
- William Kercheval retired thus ending the last of the Studio Television Supervisors.
- 1988 Donald Zilch Director of Instruction, assumes the responsibility of Instructional Television Services.

### (IV) ELIMINATION OF WASHINGTON COUNTY INSTRUCTIONAL TELEVISION SERVICES

1994 -

Dr. Herman Bartlet becomes Superintendent of Schools

1994 - 1997

Mr. Vincent Tantillo (Coordinator of Audio/Video Services) – assumes Coordinator of Television Services

There appears to be little support for televised instruction from

Superintendent Bartlet, the Department of Instruction and the Elected Board of Education.

No updated equipment is purchased No "new" televised instructional lessons are initiated.

IATV (interactive televised classroom

instruction) continues to link all High Schools

Television Maintenance Service and technicians are moved to the "Maintenance Department."



#### Mr. James Eckel – assumes what remains of Television Services.

- "Live" Telecasts of School Board Meetings were produced on a regular basis using local Cable Television Co. Public access channel.
- A few remote telecasts and videotape services continue: televised Annual Budget meetings, Orientations, Seminars, video yearbooks.
- Studio Television Productions become almost non-existent. The Department of Instruction has little or no interest in producing televised Lessons of Instruction.
- Television staff positions are eliminated or transferred to IATV positions in the schools.
- Commercial sales of Videotapes are terminated.
- Television Studios, Control Rooms and Videotape Rooms are dismantled.



Videotape Library is severely damaged due to the absence of staff -- and most original

videotaped series are destroyed due to renovation and new construction in the area.

 2000 – Last staff position is eliminated as Mr. Eckel retires.

#### 2002 - 2006

Dr. Elizabeth Morgan becomes Superintendent of Schools Mr. Ronald Shirley (reassigned to Library Services) – assumes what remains of Television Videotape Services.

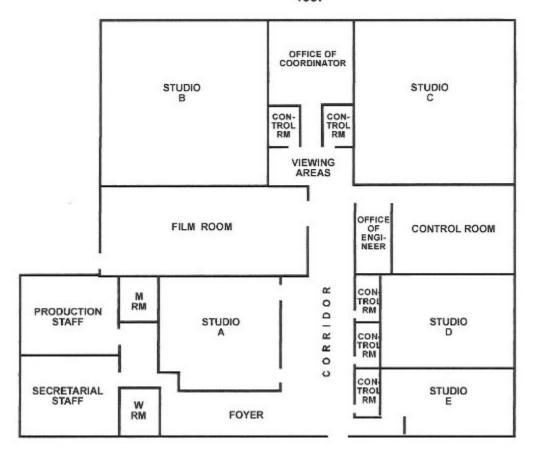


- Mr. Shirley, a 30-year Television audio/video operator/technician survives as the only person employed to provide archived and videotape duplications to classroom teachers.
- **IATV- Interactive Television** (two-way televised communication between classroom students and teachers) is now almost inactive. An Instructional Assistant operates the camera and is assigned to the school principal.
- "Live" Telecasts of School Board Meetings continue on a monthly basis using local Cable Television Co. Public access channel.

#### WHAT HAPPENED TO INSTRUCTIONAL TELEVISION?

- A lack of continuity and understanding on the part of school district administrators and local elected officials failed to preserve former Superintendent William M. Brish's "Successful Experiment."
- Although numerous studies and evaluations concluded that students receiving televised instruction were consistently ahead of the learning curve, taxpayers in Washington County refused to support it. This forced Elected School Boards to underfund, thus eliminate. Instructional Television Production.
- Once, a National leader of pioneering Instructional Television in K-12 school classrooms - now, the Washington County school district shows no evidence that a skilled staff of hundreds, operating five television studios, for a period of over forty years, created "live, and videotaped" televised lessons, contributing to the education of "thousands" of students.
- Perhaps, this answers why many of us feel that we need to assemble together to honor the memory of the "Grand Experiment" and all of those who contributed so much to its success.

#### TELEVISION STUDIOS AND FACILITIES 1957





# The following information is extracted from the 1958-59 Publication – "Closed-Circuit Television, Teaching in Washington County." – Progress Report.

# Personnel for the Washington County Closed-Circuit Educational Television Project 1958-59

#### **Administrative Staff**

- Superintendent of Schools, William M. Brish
- Assistant Superintendent of Schools, William C. Diehl
- Director of Instruction, William L. Donaldson
- Director of Public Relations, Robert F. Lesher

#### **Television Staff**

- Coordinator, T. Wilson Cahall
- Chief Engineer, John R. Brugger
- Supervisor of Instruction, George H, Ropp

#### Studio Teachers - Elementary:

Mrs., Barbara R. Al1ison, .Mrs. Josephine B, Clopper, Mrs., M. Louise Davidsen, Dolores T. Donnelly, Bruce Etchison, Mrs. Mary D. Heltzel, Robert R. Hull, Dorothy I. Hussey, Barbara J. Maurer, Clyde H. Roberts, Mrs. Lorraine M, Robeson, Anna Louise Schroyer, Velora V. Swauger, Mrs. Mildred C. Vance

#### **Studio Teachers - High Schools:**

James K. Davis, Mrs. Jane S. Guyton, Downs E, Hewitt, Edward C. Kercheval, H. Jane Martin, M. Eugene Mittel, Alta F. Nuce, Allan R. Powell, Ralph N. Rohrbaugh, Mrs. Pearl C. Snively

Production Supervisor, Mrs. Marjorie E. Hoachlander

Tests and Measurement Veronica Maz, James D. Morgan

Assistant Engineer, John F. Wahlfeldt

\*Operators: W. Walter Rudisill, Paul R. Dowie, Tom Hefelfinger, Vincent W. Helmintoller, Jr., Eugene Lloyd Mitchell, Charles Ross

**Assistant Production Supervisor:** Stanley D, Johnson

**Staff Directors:** Robert Dudley, Terence P. Hourigan, D, Glenn Thomas, HarryWagaman

\*Assistant Directors: Eddie Penn, Harry A Swope, Jr.

\*Crew Members: Judy Cohill, Wayne Decker, Bruce Dick, Dean Fiery, Maureen Louise Galman, Alice Grove, Suzanne Guiney, Nancy Hanks, Carlton Harris, Hans Heinrich, William McClannahan, Frank Papa, John Rarnaciotti, Algene Sensenbaugh, William Slook, Gary Twigg, Bobby Whited.

Visual Aids: James Eckel, Phyllis Wolf

Clerical Department: Mrs. Hilda F. Newcomer

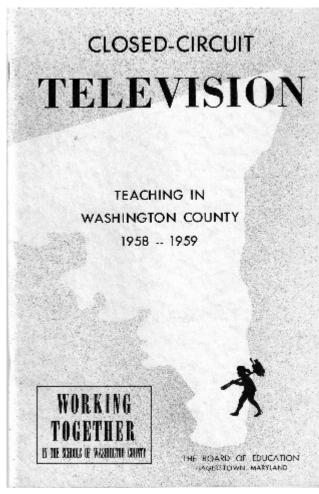
Mrs. Elizabeth V, Buckingham, Mrs. Viva C. French, Mrs. Ruth Grove, Mrs. Barbara Murray, D. Juanita Peters, Virgie Rudolph

• Junior college students who are employed part time

# WASHINGTON COUNTY CLOSED CIRCUIT TELEVISION REPORT - 1963

#### NOTE:

This publication was produced by the School System. – A very informative Historical, six-year article.



The Board of Education first considered using television in the schools in 1954. The Board was then aware that the children of the 1950's came to school with a better background of information than earlier generations-and that a primary reason for this was exposure to new experiences via television in the home. This situation suggested a need for curriculum changes to avoid trying to teach children things they already knew. It also suggested that television might be even more valuable in the classroom than in the living room.

The Board was unaware of it then, but a movement was underway to set up a project which could explore the uses of television for instruction. Backing this project was a joint committee formed by the Electronic Industries Association and the Ford Foundation's Fund for the Advancement of Education, with a number of consultants representing various educational agencies. The committee wanted to start a large-scale project-something that would provide a comprehensive test of television. The emphasis was to be on regular, direct instruction by television rather than on occasional or supplemental uses of it.

Washington County was ultimately chosen as the site of this project on the basis of a proposal to use television for instruction at all grade levels and in basic subject

areas; to use it for teacher education and for improvement and enrichment of the curriculum. The county also proposed to test television's usefulness in relieving classroom and teacher shortages and in achieving better use of community and school resources. And finally, it proposed to find out whether instruction by television was economical.

This study, the Washington County Closed-Circuit Educational Television Project, was an exploratory and practical experience - not a formal research experiment. It extended over a period of five years, 1956-1961, and included the schools of an entire county school system. The project program developed as a natural outgrowth of the curriculum improvement program which had been evolving over a period of many years. Television lessons were scheduled regularly to make them integral parts of courses, but at no grade level did they occupy a major portion of a school day. The telecasts did not prevent pupils from having personal contacts with teachers and from engaging in the give and take of classroom discussions. The television experience was planned as only part of a total learning experience for the pupil.

The project got underway in the summer of 1956. One hundred teachers, principals, supervisors and community leaders gathered at a workshop in July and August to plan the new television instruction program. At the same time a team of Chesapeake and Potomac Telephone Company engineers under William C. Warman began stringing cable for the television network; and John R. Brugger left his post as chief radio and television engineer at the University of Illinois to design and install the transmission center. The installation was completed that fall in time for telecasting to eight schools. The system was expanded until by September 1963, every public school in the county was linked to the television circuit.

As the project developed, television came steadily into use at all grade levels and in most subject

areas. Television instruction was coordinated by staff members T.
Wilson Cahall and Robert F. Lesher. Each summer and at times during the school year, teachers, principals, parents, supervisors and administrators gathered to assess progress and to restudy courses and teaching methods. New courses were added, old ones altered -until today



more than fifty courses are included in the television program. By the time the project's official life came to an end in 1961, the county not only had a new teaching aid in the classroom, but also was well on the way toward having a vastly improved curriculum and a new approach to teaching-by teams. The advantages of television were apparent and the cost low enough so that after outside financing had ended, the county was able to continue and even expand its use of television in the classroom.

Throughout the five years of the project, the county school system received support from two major sponsors-the Electronic Industries Association and the Fund for the Advancement of Education. Invaluable assistance also came from the Chesapeake and Potomac Telephone Company of Maryland.

The Electronic Industries Association, representing major electronics companies, provided free of

charge the necessary television cameras; receivers; and studio, control room, projection and recording equipment. Seventy-five manufacturers donated the equipment valued at \$300,000.

The Fund for the Advancement of Education and the Ford Foundation underwrote other project expenses. These included the costs of designing the system, administering and supervising the project, providing secretarial help, paying cable rental fees, securing additional television sets, solving various production problems,



training technical personnel, and carrying out the evaluation program. The Fund and the Foundation together contributed about \$200,000 a year to the project over the five-year period.

The Chesapeake and Potomac Telephone Company, with technical advice from Bell Laboratories, developed the closed-circuit system for transmitting television to the classroom. This system included more than 115 miles of coaxial cable plus transmitting and amplifying equipment.

#### THE SYSTEM AND THE STAFF

To many educators, the most unfamiliar and perhaps worrisome aspect of classroom television is the system itself. It is a complex electronic affair, with strange devices and odd terms like "videcon," "zoom" and "dolly out." Yet the actual task of operating such a system is not as forbidding as it might sound. Washington County has found that it can operate an extensive closed-circuit system with a minimum of professional and technical assistance. Many other school systems are probably in a position to do the same.

In the completed system in Washington County, forty-five schools are linked by coaxial cable to form a closed-circuit television network. Six lessons can be sent simultaneously over this cable and picked up on more than 800 standard twenty-one-inch television sets in classrooms, school cafeterias and auditoriums throughout the county. Many classrooms are equipped with two sets, so that no pupil has to sit far from the screen. Auditoriums and other large viewing rooms are equipped with several sets, generally one for every twenty-five children. Large screens are now being used to replace small receiving sets in auditoriums and other large viewing areas

The lessons are transmitted from a Television Center adjacent to the Board of Education offices in Hagerstown. This center is a prefabricated metal building with a concrete block addition covering an area of 100 by 125 feet. A few years ago it had a dirt floor and housed farm equipment. Now it contains five television studios. Three of these are twenty-five by thirty feet, and two are forty feet square-large enough to permit the use of an automobile or truck for demonstrations. From these studios more than twenty-five lessons a day or 125 a week are transmitted to schools. These lessons are for the most part live telecasts. The Columbia Broadcasting System, operating day and night seven days a week, produces about 140 live programs, while National Broadcasting Corporation in the same period transmits about sixty.



The center also contains offices for production, engineering, supervisory and clerical personnel, and a film projection room. Slides and films are stored, repaired and previewed in the film room from which they can be fed either into any of the five studios or directly to the schools over the closed-circuit system. Adjacent to the Television Center is another pre-fabricated metal building 100 by 40 feet, which contains office space for the studio teachers, plus a workroom for the art staff.

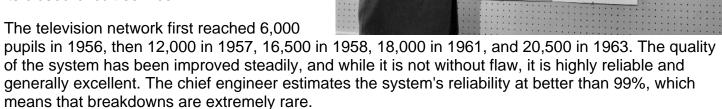
Before installing a television system for classroom instruction, it is first necessary to decide whether it shall be a closed- or open-circuit system. The open-circuit system requires no cable, thus eliminating cable rental costs. But this system provides a single transmission channel, so

that only one lesson can be telecast at a time. The closed-circuit system permits transmitting six or more lessons at a time and since Washington County wanted to make extensive use of television for teaching, it chose the closed circuit system.

At the time the Board of Education asked the Chesapeake and Potomac Telephone Company to install this system, in June of 1956, there was considerable question as to whether it could be done economically. One engineer, for example, made a guess that cable rental costs for such a system would amount to \$2,500,000 a year and capital costs to \$7,000,000 or \$8,000,000. His estimate made sense in terms of costs then being experienced by the major networks; and there was no other experience on which to base an estimate. No one had yet built an economical closed-circuit system of the size and quality needed in Washington County.

But whereas the major networks transmit over a system combining expensive underground cable and

microwave relays, the Telephone Company ultimately worked out for Washington County as system using a simplified coaxial cable. The cable rental cost is about \$150,000 a year, or one-seventeenth of the \$2,500,000 estimate. This made all the difference between a practical and an impractical system. The completed network, in fact, represented an electronic engineering milestone, and systems built since have been modeled upon it. The Telephone Company used its Washington County experience to formulate the rate schedule that is now being used nationwide for its closed-circuit service.



Operating this system requires a substantial staff. A precise figure is hard to give because there is no definite line between television personnel and non-television personnel. In all, there are about

seventy people working most of the time in the television system-and this includes teachers. supervisors, technical and clerical personnel, as follows:

- **Coordinator 1**
- **Instructional Supervisor 1**
- Teaching Staff 25 (10 part-time)
- **Production Staff 30 (17 part-time)**
- Art Staff 3





#### Clerical Staff 4

A brief discussion of the duties of the coordinator and of the supervisory, production, engineering and art staffs follows. While these departments are discussed separately, in practice they work together very closely. The standard studio crew for telecasting a lesson includes the teacher, two technicians, a director, a floor manager and two cameramen. All are interdependent.

#### **COORDINATOR**

The coordinator works directly under the assistant superintendent in charge of instruction as chief-of-staff for television. His duties induced coordination of the work of the departments of engineering, production and instruction.

#### **INSTRUCTIONAL SUPERVISORY STAFF**

A supervisor of television instruction works as a member of the county staff of general instructional

Kellan

Jacque

supervisors. His responsibilities to the studio faculty are similar to those of a principal in a conventional school. The entire group of instructional supervisors, however, provides assistance to studio teachers in the planning, teaching and evaluating of televised courses.

In addition to their other relationships with studio teachers, instructional supervisors arrange for them to meet with classroom teachers to discuss problems of mutual concern as members of a teaching team.

#### PRODUCTION STAFF

It is the teacher's responsibility to present the lesson and the engineer's job to transmit it, while it is the production staff's job to see that the lesson is presented as effectively as possible. The task of the production staff is not easily defined. The teacher is, essentially, the equivalent of the commercial station's producer. He decides what his lesson is to include, and no techniques of production are allowed to

violate the teacher's conception of the method and principles of teaching involved. The director is there to help the teacher work effectively -to help him use television's many capabilities. Production techniques are designed to implement the teacher's conception of the lesson.

The teacher new to television has much to learn about teaching in a studio situation. He must modify his habits of walking and talking. He must learn the skills of interviewing, working with a studio crew, using studio cues and signals and teaching with a variety of visual aids. This does not imply that the television teacher must become a professional actor. It means mastering simple techniques such as walking slowly enough for the camera to follow smoothly, and gesturing in such a way that the camera does not distort the arm or hand. The teacher must also learn how to prepare a script outline. The script is necessary not only as a guide for the teacher but also as a cue to let the director know what the teacher plans to do, and when. If the teacher intends to walk from one part of the studio to another, the director must know when, so that he can have the cameras in readiness. If films, slides or other kinds of visual aids are to be used, the script must indicate to the director when and where in the sequence of the lesson they are to come.

At the Television Center, two experienced supervisors head the production staff. They also teach communications courses for the Hagerstown Junior College. Most of their staff of thirty is made up of

junior college students, about half of whom are majoring in communications. In addition to the two supervisors, there are five full-time and three part-time directors. The rest of the staff is made up of cameramen and floor managers who assist the director. The fact that many of the students are studying communications at the junior college is a great advantage in training them for work at the Television Center.

About half of the production crewmen are new at the beginning of each school year. Many of them

arrive at the Television Center less than two weeks before school opens, knowing only how to operate the family television set. In twelve days they are operating cameras with considerable skill. Ninety per cent of the television lessons are live. The rest are taped on occasions when the teacher must be absent at the usual lesson time, wishes to interview a resource person at his convenience or desires to evaluate his telecast as it is received in a classroom situation.



#### **ENGINEERING STAFF**

The Chesapeake and Potomac Telephone

Company carries all responsibility for the maintenance and operation of the cable and the system amplifying equipment. All other equipment-television cameras, receivers, projection, recording, studio and control room equipment-is the responsibility of the chief engineer and his assistants. They maintain equipment and supervise the transmission of the audio and video signals.

The engineer and his assistant supervise the staff of technicians who have varied responsibilities. The Engineering Department, like the Production Department, trains its own personnel. With the exception of the chief engineer and his assistant, all are junior college students or recent high school graduates. Not infrequently these students go on to careers in electronics.

#### 1. The film room operator

- maintains a library of films which he catalogues, deans, splices, and inspects.
- feeds the proper film into the studio, or directly to the schools.
- schedules film previews for teachers and helps teachers select parts of a film for use in their lessons.

#### 2. The video-tape recorder technician

- records lessons or special demonstrations
- maintains a library of approximately 200 one-hour tapes of previously recorded materials
- operates the video-tape recorder
- · schedules the replaying of topes

#### 3. The audio-video operators

- connect the studio to the proper channel
- control the equipment which determines the quality of the audio and video signal



operate turn tables and recorders

#### 4. The maintenance crewmen

- service the 800 television sets located in 45 schools
- test the 15,000 tubes in the television system
- install and maintain equipment at the Television Center

#### **ART STAFF**

The Art Department provides a number of important services. There are three full-time staff members in this department, all recent high school graduates talented in art. They prepare most of the maps, charts, diagrams, acetate overlays, special illustrations, models,



and backgrounds for sets and similar material used by the teachers in more than fifty televised courses. While much commercially-produced illustrative material is available; often it is not suitable for television. Many maps are too detailed, and illustrations are not proportioned for the television screen, which requires a height /width ratio of three to four. Worthwhile illustrative material can often be produced much more cheaply than it can be purchased. Having the Art Department makes it possible for teachers to be much more flexible in planning graphic materials for their lessons-a vital advantage if the most effective use is to be made of television.

#### TELEVISION IN THE SCHOOLS

The "correct" way to fit television into the conventional school routine will probably be debated for

years to come. The proper length of the television lesson, the optimum size for the television class opinions about these and other problems may ultimately fill volumes. No one now has had enough experience to know the best conclusions.

Nevertheless, a few things do seem clear. One is that television should not take up a major portion of any pupil's school day; television is best used as a specialized kind of learning experience or as an aid to classroom instruction. The other is that a television lesson should generally be followed as soon as possible



by a session with the classroom teacher.

But there is now no easy answer to the question of how long a television lesson should be. The fact that the attention span of a first grader is shorter than that of a high school pupil has bearing on the question. So does the fact that pupils at the same grade level can profit by a longer television lesson

in a subject like art, than in others, such as conversational French, where more concentration is required.

At present elementary pupils spend 7.3 % to 13 % of their classroom time watching television lessons. These lessons, ranging in length from thirteen to twenty-five minutes, are followed by work in the subject with the classroom teacher. Junior high school pupils spend almost one-third of their time in television classes, while high school pupils seldom spend more than 10% of their time in television classes.

None of these time periods are recommended as the ideal. The staff is inclined to believe that the amount of television viewing time in the elementary schools is satisfactory. Junior high schools may have too much viewing time, while high school pupils might profitably spend more time than they now do.

The flexibility of the elementary school day makes it much easier to use television there than in the junior or senior high school. Since there are no rigidly defined periods in the elementary school, the classroom teacher can devote as much or as little time as he deems necessary to preparation for the television lesson, or to discussion and other follow-up work. The junior and senior high school schedules, on the other hand, are relatively inflexible. When the day is made up of six periods of equal length, both television and classroom teachers are more limited in what they can do.



In certain subjects, television is obviously very successful. In others, it is less so, although it appears that in no subject does television fail to produce results at least as good as those achieved when classroom instruction alone is used. There are many on the county staff now who believe that any well taught subject will be effective on television, and that failures are caused by unsatisfactory presentation, not by weaknesses inherent in television. It is certainly true that no one should judge hastily whether or not a course is suitable for television. Many teachers in Washington County who thought that arithmetic could not be taught successfully on television have changed their minds, because test results have made it quite clear that elementary pupils made much more rapid progress in arithmetic with television than they did without it.

#### **TEACHERS AND TELEVISION**

The impact of television on the Washington County school system has been far greater than anyone could have predicted in 1956. Nowhere has this impact been more obvious than in the area of teaching and teaching methods.

Television has made the talents of some' of the county's teachers far more widely available than they were before. This benefits not only the pupils, but also many other teachers who, for the first time, have an opportunity to watch their colleagues at work. When this first happened, teachers with thirty

years' experience sometimes discovered, often to their surprise, that there were quite a few teaching techniques they had not known about. Before television, these teachers had to depend largely on theory and experience to guide them. Now they have a daily opportunity to watch and weigh the methods and theories of others, and to see how these work out in practice. For most teachers, this has been an enlightening experience. It has provided on-the-job training never before possible. An even more notable change brought by television has been the establishment of teaching teams. The teacher in the studio and the teachers in the classroom comprise the team.

Undoubtedly, Television has a place in the instructional program of the school. Television adds a new dimension to the instructional program. Through the use of visuals and other techniques unique to television, classroom television provides experiences for Washington County pupils that could not be achieved in other ways.

Additional Information: (From Teachers Handbook - 1975)

#### **Television Production Department -**

Since 1956 pupils in Washington County have received by television selected courses in their program of education.

Telecasts originate in the Instructional Resource Center's studios located within the Central Office of the Board of Education. They are transmitted to schools by coaxial cable over a six-channel, closed-circuit system or distributed by video tape cassettes delivered to the individual schools for use within their established schedules.

Approximately twenty-five telecasts are produced each week on video tape. With repeat playbacks and program material received and distributed front the Maryland Public Television Network, there are approximately one hundred and twenty-five transmissions each week to the schools of Washington County over the TV cable system.

Instruction in the elementary schools is augmented by the use of eleven locally produced tele-lessons and eight telecasts available from the state ITV network. Areas of service are music, art, science, social studies, reading, nutrition and ecology. The middle schools instructional program is supplemented in science, mathematics, music and art. Four of these telecasts are provided by the state ITV network. A programmed series of social studies films is also available for integration into the curriculum.

At the high school level, televised instruction in English, business mathematics, biology and contemporary problems is provided by this school system. The state ITV network presents a series of calculus lessons. A sequented program of social studies films is also available to the classroom teacher.

While the major part of television teaching is instruction of basic course content, there are some telecasts that are of the supplemental and enrichment nature. There are also special telecasts for in-service training and for the dissemination of information to the administrative staff, school principals, teachers, and students.

The role of tile TV Production Department is to translate each course's curriculum objective into educationally valid instructional television. This is accomplished through "production team" meetings for each TV course, involving the TV production managers, TV directors, TV teachers and other support instructional personnel. Within these "production team" meetings are developed interesting and stimulating methods for presenting the defined curriculum objectives, these

ideas became the framework for the television script which is then developed cooperatively by the television teacher and the television director.

The TV Production Department also works closely with school principals and instructional supervisors in the decisions as to the course offerings that will make up the television schedule for the coming school year. Tile production managers work with the formulation of the schedule of regular telecasts so that the offerings stay within the parameters imposed by existing facilities and equipment. Once these decisions have been made, it is the responsibility of the production managers to assign the necessary facilities and personnel to the daily production schedule so telecasts are recorded in sufficient time for scheduled transmission to the schools.

Classroom and studio teachers also function as teams in curriculum planning, teaching and evaluating. Both have unique roles but each complements and supplements the work of the other. For each television course there is a committee of classroom teachers who meet with the studio teacher for planning and evaluation. The total learning experience for the pupil in courses employing television is planned as a two-part unit: learnings that are guided by tile studio teacher and activities planned and initiated by the classroom teacher.

While television is a one-way medium of communication, the television teacher using effective teaching methods can draw upon the unique potentials of electronic tools and other aids in the studio to provide active mental, emotional and sometimes physical experiences for pupils during a telecast.

Resources not readily accessible m many classrooms, such as live or recorded current happenings, films, new information and data and guests who contribute to learning because of their special knowledge, talents or skills, become important elements of many television lessons.

Studio teachers need to keep in touch with those they teach and welcome invitations from classroom teachers to visit classes. Television is, in itself, a medium of communication. Its value in education is determined by the imagination, sincerity and skill of the instructional staff of Washington County who produce and utilize what is transmitted.

### Television Teachers – 1959-1960

Mrs., Barbara R. Al1ison Mrs. Josephine B, Clopper Mrs., M. Louise Davidsen **Dolores T. Donnelly Bruce Etchison** Mrs. Mary D, Heltzel Robert R. Hull, **Dorothy L. Hussey** Barbara J. Maurer Clyde H. Roberts Mrs. Lorraine M, Robeson **Anna Louise Schroyer** Velora V. Swauger Mrs. Mildred C. Vance James K. Davis Mrs. Jane S. Guyton Downs E, Hewitt **Edward C. Kercheval** H. Jane Martin M. Eugene Mittel Alta F. Nuce Allan R. Powell Ralph N. Rohrbaugh Mrs. Pearl C. Snively

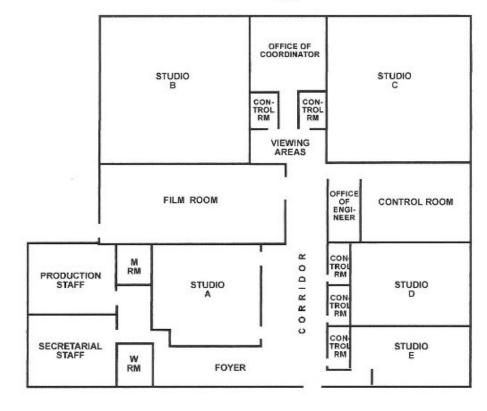


Reading left to right from the back row: Mr. Mittel, Mr. Etchison, Mr. Davis, Mr/
Powell, Mr. Hewitt, Mrs. Robeson, Miss Nuce, Mrs. Snively, Mr.Kercheval, Mr. Lizer,
Mrs. Schroyer, Mrs. Allison, Mr. Roberts, Mr. Brish, Mr. Hull, Miss Martin, Miss
Cushen, Mrs. Clopper, Mrs. Davidsen, Mrs. Guyton, Miss Donnelly, Mrs. Heltzel,
Mrs. Hesson.

#### **Television Teachers – 1970**

Louise Hewitt
Jane Guyton
Clyde Ball
J. Allen Martin
Rick Wilson
Darlene Smith
Leonardo French
Claude Sasse
Rita Downs
Nina Atherton
linda Rohrer
Sandy Taylor

#### TELEVISION STUDIOS AND FACILITIES 1957



**Karen DeGrange** Vaughn Dullabaum **Mary Smith** Jon Cannon Ralph Giffin **Dan McElrath Eileen Whisner** Joe Sokol Ralph Rohrbaugh **Ann Harris** Jane Martin **Maurice Johnson** Joe Gambino **Terry Mason** Jim Seibert **Alta Nuce** John Stouffer **Richard Munch Thomas Prather** 

#### **Production Supervisors – 1970**

**Stanley Johnson Harry Wagaman Television Directors – 1970 Glenn Thomas Paul Pottenger** Joseph Sullivan **Thomas Klipp Gerald Miller Keith Schneider Steve Grumbacher Bronson Staley** Studio Crewmembers - 1970 **Sheila Metzel Allan Williams Tony Calendrelle Mike Steiner Ron Shirley Carl Reed Donna Hunt Sheryl Mullendore Dan Stanton** 



**Charlene Perry Joseph Gambino Mary Smith Alta Nuce** John Hoover **James Seibert Nina Atherton** Dan McElrath John Stouffer Ralph Rohrbaugh **Richard Wilson** Vaughn Dullabaun **Sandra Gates Joanne Berteaux Terry Mason Nancy Reedy** Ralph Giffin Claude Sasse Joseph Sokol **Rita Downs** 



#### **Television Teachers – 1974-75**

(Teacher Subject Grade)

Charlene Perry - Music 1,2
Laura Downin - Art 1,3,5
Richard Wilson - Art 2,4
Nancy Sullivan - Music 3,4
Mary Michael - Social Studies 3,4
Ronald Brown - Music 5
Richard McNew - Science 5
Ralph Rohrbaugh - Science 8
Joseph Gambino - Biology 9A
John Stouffer - Biology 9B
Ralph Giffin - Contemporary
Decisions 11
Richard Munch - Math - Metric 12
Thomas Prather - Math - Metric 12.

**Television Teachers – 1977** 

(6) Teachers

**Television Teachers – 1984** 

(2) Teachers



#### **Graphic Artists, & Photo Technicians**

1956 - 2000

1957 - Phyllis Wolf, Jim Eckel

1960 - Phyllis Wolf, Jim Eckel, Jim Brown

**1962 -** Phyllis Wolf, Jim Eckel, Kathy Wills (Baker)

**1964 -** Phyllis Wolf -Art Supervisor, Kathy Wills, Tom Cunningham, Kristin Grice (Bowen)

**1965 -** Phyllis Wolf /Prather -Art Supervisor, Kathy Wills, Norm Grahl, John Glosser, Glenn Greathouse



**1967 -** Phyllis Wolf /Prather -Art Supervisor, Kathy Wills, Norm Grahl, John Glosser, Phil Grove, Pat Crist, Jim Eckel

**1968 -** Phyllis Wolf /Prather -Art Supervisor, Kathy Wills, Norm Grahl, John Glosser, Phil Grove, Pat Crist, Linda Wolford, Paulette Sprinkle, Donna, Doug, Dave Myers (student), Jim Eckel

1969 - Phyllis Wolf /Prather -Art Supervisor, Kathy Wills, Norm Grahl, John Glosser, Phil Grove, Pat

Crist, Linda Wolford, Paulette Sprinkle, Dave Myers (student), Dottie Slieffer, Gail Beale, Sally Baker, Bonnie Orndorph, RayJean Ditterman, Jim Eckel

**1970 -** Phyllis Wolf -Art Supervisor, Norm Grahl, Phil Grove, Pat Crist, Linda Wolford, Paulette Sprinkle, Dave Myers (student), Dottie Slieffer, RayJean Ditterman, Coleen Werner, Jim Eckel, -Art Supervisor

**1971 -** Norm Grahl, Pat Crist, Linda Wolford, Paulette Sprinkle, Joy Hartle, Coleen Werner, Cindy Ryder (Stouffer), Jim Eckel - Art Supervisor



**1972 -** Norm Grahl, Pat Crist, Linda Wolford, Paulette Sprinkle, Joy Hartle, Coleen Werner, Cindy Ryder (Stouffer), Teresa Lewis, Jim Eckel -Art Supervisor

**1973 -** Norm Grahl, Pat Crist, Linda Wolford, Paulette Sprinkle, Joy Hartle, Ralph DeVore, Cindy Ryder (Stouffer), Teresa Lewis, Jim Eckel -Art Supervisor

1974 - Norm Grahl, Pat Crist, Linda Wolford, Paulette Sprinkle, Joy Hartle, Marla Stevens, Cindy Ryder (Stouffer), Teresa Lewis, Jim Eckel -Art Supervisor

1975 - Norm Grahl, Craig Gay, Pat Crist, Linda Wolford, Paulette Sprinkle, Joy Hartle, Mary

Hammond, Mary Stanley, Cindy Ryder (Stouffer), Teresa Lewis, Dan Stanton, Dan Reily, Jim Eckel -Art Supervisor.

**1976 -** Norm Grahl, Craig Gay, Pat Crist, Linda Wolford, Paulette Sprinkle, Joy Hartle, Mary Hammond, Mary Stanley, Cindy Ryder (Stouffer), Teresa Lewis, Dan Stanton, Roy (Sam) Sampsel, Jim Eckel -Art Supervisor.

**1977 -** Pat Crist, Linda Wolford, Paulette Sprinkle, Mary Hammond, Mary Stanley, Cindy Ryder (Stouffer), Teresa Lewis, Dan Stanton, Tony Surranno, Eddie King, Roy (Sam) Sampsel, Jim Eckel -Art Supervisor.



**1979 -** Pat Crist, Linda Wolford, Paulette
Sprinkle, Mary Hammond, Mary Stanley, Cindy Ryder (Stouffer), Teresa Lewis, Dave Myers (returns),
Tony Surranno, Eddie King, Jim Eckel -Art Supervisor.

**1981 -** Pat Crist, Linda Wolford, Paulette Sprinkle, Mary Stanley, Dave Myers, Jim Eckel -Art Supervisor.

1985 - Pat Crist, Mary Stanley, Dave Myers, Jim Eckel -Art Supervisor.

1990 - Pat Crist, Linda Wolford, Shiela Metzel (PDC), Jim Eckel -Art Supervisor.

1995 - Pat Crist, Jim Eckel -Art Supervisor.

**1996 - 2000 -** Jim Eckel -Art Supervisor.



#### Washington County Closed Circuit Television System Directory of (472) Employees 1956-2000

Conrad (Bill) Ahalt Custodian

Mary Ann Aiken Federal- Title III ITV

Tessa Aldridge Production

Barbara R. Allison Teacher – Social Studies

W. Craig Angle Production

John Angle Engineering

Terry (Karn) Angle Teacher - ESOL

David Arnett Production

Deanna Babbs Production

Gary D. Babbs Production

Alice (Grove) Bair Production

Jacqueline Baker Teacher – French
Kathy Baker Graphic Artist
Dawn (Strauss) Baker Teacher - Music

Sally Baker Graphic Artist & Production

Julie (Bliss) Barlup Production Lawrence C. Barton **Engineering** Deborah K. Barthlow **Production** William E. Bell **Production Production Robert Bergstrom** Michael S. Bequeath **Production Production** Mary S.Bledsoe Thomas H. Blocker **Production** Linda R.Bloyer **Production** Donald E. Bolyard Production

Glenn Bond Federal Programs

Inge N. Bonefas Production

Dolf Bonenberger Production

Harry Bottorff Production & TV Director

Jill M. Boward Production

Diane M. Boward Production

Krissy (Rice) Bowen Graphic Artist

Steven A/ Bowers Production







**Harold Boyer** 

Loraine (Laurie) Boyne

**Bruce B.Brown** 

James Brown

**Ron Brown** 

John R. Brugger

Joseph Brumback

Geisela Bullememer

**Bruce Buhrman** 

Patricia Burger

Craig C. Butcher

**Howard Bruneau** 

**Earl Burkett** 

Nancy (Hanks/Henry/Reedy)

**Bushey** 

Joseph Byers

Vicki Byrd

Anthony (Tony) Calendrelle

Peter (Pete) Callas

Johnathan Cannon

Roberta (Ratliff) Carbaugh

Dorothea (Carbaugh) Chatkin

James R. Clark, Jr.

Thomas G. Clark

**Roland Cline** 

Darryl N. Clopper

**Maryanne Coffey** 

**Sharon Cooper** 

**Felicia Cohill** 

Barbara (DuBois) Cole

Thomas R. Colvin

Robert Coneley, Jr.

Charlene (Perry) Connel

Jeanette M. Cooley

John Corderman

Lawrence K. Costanza

**Peggy Costion** 

John Cozzoli

**Production & Graphic Artist** 

Production

**Production** 

**Graphic Artist** 

**Teacher – Music** 

**Chief Engineer** 

Production

**Teacher** 

Teacher - Science

Federal

**Production** 

**Production** 

Custodian

TV Director, Teacher-English

Teacher - Science

Teacher -Art

**Engineering Tape Operator** 

Supervisor - School News

Teacher -

**Production** 

**Production** 

**Production** 

**Production** 

Teacher - Math

**Production** 

**Production** 

Federal-Title III ITV

**Production** 

Teacher -French

**Engineering** 

Production

Teacher - Music

Clerical

Production

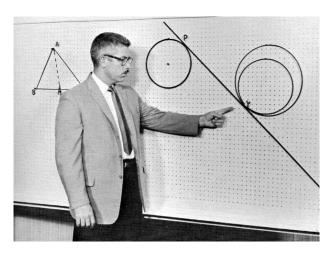
**Production & Engineering** 

**Production** 

**Production** 







Bernard Cramer Custodian

Patricia Crist Graphic Artist

Nancy Crosley Production – Puppets

Thomas Cunningham Graphic Artist
Judy Curry Production
Jane Cushen Teacher

Robert (Bob) Dean Engineering
Paul M. Datillio Production
Al Davis, Jr. Production
Marlin W. Davis Production
Wilmer V. Davis Custodian
Pat Decker Production

Rebecca (Plummer/Miller) Decker TV Director
Karen DeGrange Teacher -French

Stephen E. Deitz Production

Jeffrey Deschamps Production

Ralph DeVore Graphic Artist

Bruce Dick Film Operator

Hugh A. Dilson Graphic Arts

Theresa Dodson, Jr. Clerical

Laura Downin Teacher -Art
Rita ( Salem ) Downs Teacher - Music

James T. Draper, Sr. Custodian

Barbara DuBois Teacher -French
Delores (Donnelly) Dudley Teacher -Music

Laurie Dudley Clerical
Bill Dukes Production

Vaughn H. Dullabaun Teacher – Math Eileen Dux Production

Eileen Dux Production
Judy Dwyer Production

James Eckel Supervisor Graphic Arts

Susan E. Edlund Production
Susan C. Elgin Production
Thomas M. Elgin Engineering
Franklin S. Elliott. Production
Jeffrey Elliott Production
David Elsen Production







Daniel I. Eshelman Custodian

Bruce I. Etichison Teacher – Art

Al Evans C & P Telephone Engineer

Charlene (Perry) Fay

Coleen (Williams) Ferguson

Frank C. Fiery

R. Dean Fiery

Gregory J. Filiczak

Donald L. Fink

Production

Production

Production

Production

Production

Production

**Nelson Flint** 

Dan Flotz Engineering & TV Service

**Engineering** 

**Dennis B. Flowers** Production **Production** Nancy (Grove) Foltz Samuel M. Foltz Production **Graeme Foster Evaluator** James F. Fox TV Director Bill (Funk) Friend **Engineering** John C. Funk **Engineering** Sue Funk **Production** William D. (Bill) Funk **Engineering Judy Funkhouiser Production Production** Maureen L. Galman

Joseph F. Gambino, III Teacher – Science

Barbara Gardenhour Production
Sandy Gates Teacher - Art
Craig Gay Production
Paul F. George Production
David L. Gerber Production
Ronald F. Gerber Production

Ralph E. Giffin Teacher – Social Studies

William E. Giffin, Jr. Production

Cynthia Gist Teacher – Science

John W. Gladhill Engineering
John E. Glosser, Jr. Graphic Artist

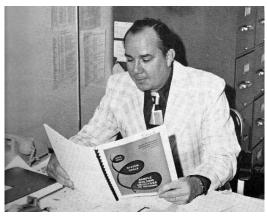
Cynthia L. Graph Clerical

Glenn Greathouse Graphic Artist/Photographer









Dick Griswald

Bill Grooms Kurt Grooms

Samuel H. Gross

Phillip Grove

Phyllis (Wolf) Grove Steven Grumbacher

Mary jane Grumbine Roger L. Guptill

Linda K, Guyer

Jane Guyton

John B. Haines
Garv Hammond

Roger "Gordy" Harbaugh

Frank M. Harlacher

Robert (Bobby) Harmon

Mary Louise Harr

Linda Harrell

Claude (Woody)Harrellson

**Carlton Harris** 

**Reed Harrison** 

Angie (Tussio) Harsh

Joe Ellen Harter

Stephen E. Harwood

Jo Hassler

Mary Hawbecker

Allan T. Healey

Philip Healey Herman, Herr Heckmann

Tom Hefelfinger

Hans Heinrich

Vincent (Vince) Helmintoller

Harry M. Hennesy Robert W. Hershey

William S. Higgins, Jr.

Charles R. Hill

**Downs Hewitt** 

**Production & Engineering** 

Production Engineering

**Production** 

Graphic Artist/Photographer

**Graphic Artist - Supervisor** 

TV Director Production

Production Production

Teacher -English

Production

Engineering

Engineering

Public Relations

Production

Teacher

Clerical

Custodian

**Production** 

**C& P Telephone Intern** 

Production

Production

Production

**Crew Member & Clerical** 

Teacher

**Production** 

**Production** 

Production

**Engineering & A/V Engineer** 

**Production** 

**Engineering Utility** 

Production

TV Director
Teacher- Math

Engineering

Engineering







Phyllis S. Hill Supervisor Library Media

Leslie Hobbs Teacher - Math

Margery Hochlander Production Supervisor
Charles R. Holder Teacher – Social Studies

Linda (Rohrer) Hollar Teacher – French

Kenny Hollar Production

John Homan Teacher – Science

Penny S. Hosapple Production

Kenny Hose TV Service Technician

Rae Jean Dinterman/Giffin/Howell Graphic Arts
William V. Hovis Production
Barbara (Babbs) Hull Production
John J. Hull Guidance

Kirby (Lorado) Hull TV Service Technician

Robert R. Hull Teacher – Math

Donna Hunt Production

Christine L. Hurd Supervisor - Printing

Dorothy Hussey

Robert (Bob) Ipoilito

Tom (Maurice) Ireland

Carol. J.(Itnyre) Izer

Walt Jenkins

Teacher – Math

Production

Production

Media Aide

Engineering

Walt Jenkins Engineering
William L. Jenkins Engineering

Charles E. Johnson Teacher – Social Studies

Frederick Johnson, Jr. Teacher – History

Kenneth (Kenny)Johnson Production & Engineering Stanley D. (Stan) Johnson TV Production Supervisor

Dennis L. Johnston Production
Willis W. Jones Production
Carlton Kaler Production
R. Lawrence Kayser, III Engineering

Karen Keller Federal

David Kelley Federal- Title III ITV

Edward C. Kercheval Admin., Teacher – English
William C. Kercheval ITV Superv. – Teacher – Math

Nancy (Foltz) Kercheval Production
Vincent R. Keys, Jr. Production









Dr. R. Thomas Kincaid

Joseph King Production

James H. (Jim) Kiracofe Engineering

Maureen (Galmen) Kline Production

Ralph L. Kline Teacher – Social Studies
Thomas T, Klipp Production & TV Director
Narenda Kumar Admin. ITV Evalu/Utilization

Admin., Teacher - Spanish

Doris Leasure Federal Programs

Gerald (Jerry) Lapole **Production** Johnathan K. Leasure Production John W. (Jack) Leatherman Production **Ed Lecrone Production** Thomas M. Levens Production Alan J. Levin **Production** Teresa Lewis **Graphic Artist** Robert A. Lewis, Jr. Production Theodore (Ted) Light Production Federal

James H. Line Federal
Fran Little Production
Samuel A. Little Production
David W. Livingood Production

John Lizer Teacher - Science

Thomas Longham Production
Sue (Hammersla) Lopez Production
Peggy K. Lumm Production

Blair MacKenzie Federal – Title III ITV

Chris Malott Production
Catherine Marks Clerical

Dale Martin TV Service Technician
Richard L. Martin Production

Susie (Potts) Martin Production

Linda Marshall Federal & Clerical

Ken Mason Photographer/TV Production

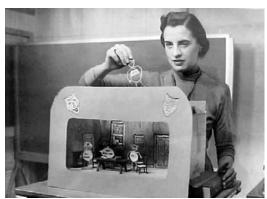
Barbara Maurer Teacher – Arithmetic

Frederick S. Mayer Production

Patricia Maynard Teacher - Social Studies

Dennis Mazingo Production







Richard McCann TV Director
William McClanahan Production

Charles D.(Dan) McElrath Teacher -Science
Richard McNew Teacher -Science

Larry G. Mellott Production
Keith Merchant Production
Eric Merklein Production

Hal Metcalf TV Guide – Publisher

Phillip E. Metz Production & TV Director

Trudy (Mackrell) Metz Production

Sheila (Shobe) Metzel Chief Floor Director & CG

Pauline A. Miles Production

F. Timothy Miller Production

Gerry Miller, II TV Director

Claire A. Minnich Production

Eugene L. Mitchell Assistant Engineer

Robert L. Mitchell Production
William A. Mitchell Production
Vernon T. Miskowich Engineering

Eugene (Gene) Mittell Teacher – Science

Lewis E. Monninger Custodian

Dora Moore Production

Richard G. Moore Teacher – Social Studies

StepheMoore Production

Carl J. Mose Custodian

Karen Motern Teacher - Art

Mark A. Mowen Production

Barbara Mower Teacher - Math

Fred S. Moyer Production

Joanne D. Mullendore Teacher - French

Sheryl Mullendore Production & Remotes

Mary Mullins Intern

Calvin Mumma Production

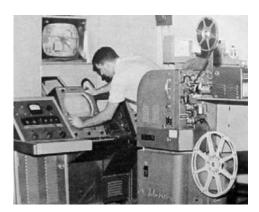
Edward L. Mummert Production & Engineering
Richard Munch Production & Teacher -Math

Bennett G. Murray Teacher – Math

Robert (Bob) Myers Assistant Chief Engineer







David M. Myers Graphic Artist

Joseph E. Nalley Production

Sue (Roulette) Nalley Clerical

Herman Niedzielski Federal Programs

Hilda Newcomer Clerical

Earl Milton (Chip) Neal, Jr.

Richard (Rick) Newman Production & Engineering

**TV Director** 

Steven H. Northcraft Production
Gary Nunamker Production
Robert O. O'Brien Production

JoAnn (Berteaux)Overington Teacher – French

Donald O'Neal Production

Ruth Orndoff Helping Teacher – Title III TV

Barry Oxendine Production

Frank A. Papa Engineering, Video Tape Operator

Janice L. Peck Graphic Artist
Sara K. Peifer Graphic Artist
Edward (Eddie) Penn TV Director
Sue (Guiney) Penn Production

Kathy Phillips Federal – Title III TV

Larry Plessinger Engineering
Paul Pottenger TV Director

Nina (Atherton) Pottenger Teacher - Science

Allan Powell Teacher - History

Thomas W. Prather Teacher - Math

Joy (Hartle) Predmore Instructional Materials

Gregory W. Price Production

John Ramacotti Production

Bob Ratliff, Jr. Production

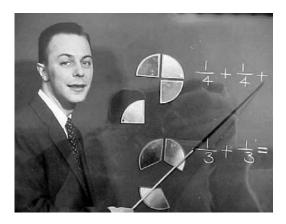
Roberta Ratliff Production

Phillip G. Reaser Federal Programs- Title III TV

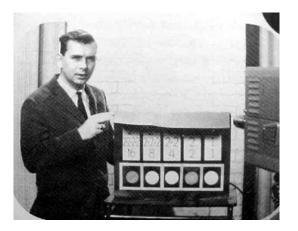
Michael A. Reece Production

Carl Reed Production, Lighting TV Director

Otto James Production
(Jack) Reeder Engineering
Donald E. Reedy TV Director
Linda N. Reid Production







Daniel Reilly Graphic Arts
Edward J. Remavege Engineering

Robert N. Remavege

Kenneth D. Resh

Engineering. Tape Operator

**Production** 

Harry C. Reynolds

Kenneth G. Ridenour

David A. Rider

Production

Production

Donald C. Rider Production

Jimmie Riser Engineering

Clyde H. Roberts Supervisor & Teacher - Art

Louella D. Robertson Teacher - Arithmetic

V. Lorraine Robeson Teacher - Arithmetic

Joseph E. Rockwell Teacher – Math

Quentin Roessner Supervisor, TV Maintenance

Ruby (Hendershot) Roessner Clerical - ITV

Barbara Rorhbaugh Production

Ralph N. Rohrbaugh Teacher – Science

Donna Rohrer Production

William (Bill) Rohrer Teacher – Science

Charlie Scott Ross Engineering
Norman E. Rottler Custodian

Charlene (Perry) Rowe Teacher – Music

Walter (Rudy) Rudisill TV Serviceman, Engineering

Maureen Ryan Production
Cindy Ryder Graphic Artist
Brenda JoAnn Sacratini Production

Claude Sasse Teacher – Social Studies

Joseph B. Sauder Production

David Schaefer Engineering

Joseph D. Schaefer Engineering

Keith C, Schneider TV Director

Anne L.( Schroyer) Harris Teacher - Science

J. Clifford Schultz Production

Karen (Mottern) Schulz Teacher –Art

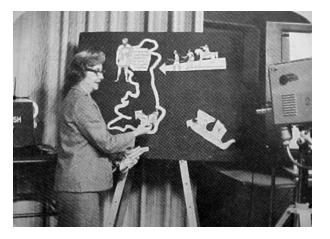
Carolyn Seburn Teacher – Math, Supervisor

John W. (Jack) Seburn Teacher – Social Studies, Supv.

Alvin B. See Engineering







James Seibert Teacher – Social Studies

Teresa (Renner) Semler Production
Algene Sensenbaugh Production
Cheryl D. Shank Production
Juana L. Sheetz Production

Walter H. Shield, Jr. Production & Engineering

Ronald Shirley Production, & Tape Rm Coordin.

Donna (Bock) Shives Production

John Shives Production & TV Director

Sally Shobe Production Production **Earl Showalter** John Showman **Production** Penelope A. Shropshire Production **Production** Lynn Shuman **Terry Lee Slick** Production Dorothy E. Slifer **Graphic Artist** William Slook Production

Verlin Smaltz Teacher – Chemistry

Howard E, Ph. D. Smead Production

Darleen Smith Teacher – Music

James L.Smith Engineering
Donald Smith Production
Marla Smith Graphic Artist

Vergie L. (Rudolph) Smith

Eddie Snapp

Anne M. Snavely

Lynn Snively

Harry A. Snyder

Richard W. Snyder

Stephan Snyder

Clerical

Production

Production

Production

Production

Production

Production

Joseph (Joe) Sokol, Sr. Teacher – Social Studies

Deanna (Knepper) Soulis Teacher – English

William (Bill) Sonnick, III Engineering

James H. (Jim) Spears Production Supervisor

Ian Grant SpongProductionHoward SprecherCustodianPhillip R. Sprecher, IIIProduction







Robert (Bob) Sprecher Chief Cameraman

Thomas Sprecher Production

Paulette Sprankle Graphic Artist

Lawrence K. Springer Engineering & Film

Bronson Staley TV Director & Teacher

Mary Stanley Graphics / Instructional Materials

Daniel Stanton Graphic Artist – Studio Sets

Ronald C. Stark Production
Kenneth Starliper Engineering
Frederick (Freddy) Starr Production

Daniel H. Steenburg Production & Set Design

Mike Steiner Production, TV Remote Director

Michael Stitley Production
William O. Stottlemyer Production

John J. Stouffer Teacher – Science

John R. Stouffer, Jr. Teacher – Biology

Lavora Stouffer Graphic Artist

W. Wayne Stouffer Production

Frederick Sullivan Production

Nancy Sullivan Teacher – Music

Tony Suranno TV Remote & Photographer, CG

Judith M. Sweigert Production
Harry (Beta) Swope TV Director
Michael Thomas TV Director
Charles Thompson Production

Leonora (Polly) Timbrook Clerical – TV Engineering
Paul Tompros Teacher – Social Studies

Mildred B. Tresler Production

Margo Lelani Trovinger Teacher – ESOL

George D. Trump Production
Thomas C. Trumpower Production
Gary Twigg Production
Richard (Dick) Veatch TV Director

Lawrence P. Violet Production & Engineering Harry (Sam) Wagaman Production Supervisor

John Wahfelt Chief Engineer

Robert A. Wantz Teacher –Science



Richard A. Warden Production

E. Lee Weaver Teacher - Art & Supervisor

Frederick C. Weibel, Jr. Production

Eileen A. Whisner **Teacher – Mathematics** 

**Bobby Whited** Production Wallace Wibble Production **Bruce Wibberly** Production Michael (Mike) Wicklein **Production** Bruce A. Wilder Production Kathy (Wills) Baker **Graphic Artist** 

TV Director, Engineering, TV **Larry Williams** 

Remotes

Janet L. Willias Production Richard (Rick) Wilson, Jr. Teacher - Art Pamela L. Wingern Production

David (Dave) Wolfinger **C & P Telephone Company** 

Cindy (Nunamaker) Wolfinger Production William (Bill) Wolfinger **Production** Linda (Jennings) Wolford **Graphic Artist** Richard C. Woodring Production

Jane Woods Teacher - Music

**Boyd Work** Production **Gregory J. Worthington** Production **Leonard Worthington** Production **Thompson Worthington** Production Walter B. Wragga Production

**Teacher – Social Studies** Terry (Mason) Young **Princeton Young** Production, Engineering

Mike Younkins Production

Teacher - English Sara Zenge

**Larry Zentmyer** Production

**Donald Zilch** Supervisor - ITV

# In Memorium

These friends and coworkers are fondly remembered for their skillful efforts that contributed to the successes of the Educational Television Project.

(Apologies for any errors in names omitted or included in this list)

Name	Position
William Ahalt, Sr.	Custodian - ITV
Dr. William M. Brish	Superintendent of Schools – Founder of Wash. Co. Educ. TV
Clyde Ball	Teacher - Math
Catherine Beachley	Teacher - Guidance
Robert (Malcolm) Binau	Cameraman - TV Production
Douglas Bivens	Administration – ITV Host
Loralei B. Bowers	Teacher - Math
Claude Brubeck	Supervisor – ITV Host
Alan T. Butler	Audio/Video, Tape Operator
Fred Buzzerd	Teacher – English, Title III ITV
T. Wilson Cahall	1st Coordinator, Closed Circuit TV
Ronald Crist	Supervisor of Federal Programs
Josephine Clopper	Teacher - Social Studies
James K. Davis	Teacher - Math Supervisor
Ruth Deavers	Floor Director- TV Production
Wayne Decker	Film Room Operator - TV Prod.
Sara Jane DeLauter	Clerical - TV Production
Brenda L. Divelbiss	TV Production
Paul Dowie	Audio/Video - TV Production
Robert (Bob) Dudley	TV Director
Michael P. Dwyer	Cameraman - TV Production
William J. Dwyer	TV Production
Alfred P. Fehl	Teacher - English
Leonardo French	Teacher - Math
Theodore W. Gossard	TV Production
Norman L. Grahl	Coordinator - Photography, Film
Paul Guptil	Teacher - Science
Mary Hammond	Secretary - ITV
Claude (Woody) Harmison	Custodian, ITV
Jack Harshman	C & P Telephone - Engineer
Mary (Penny) Heltzel	Teacher - Math & Science
Joan Hesson Lizer	Teacher - Arithmetic
Louise Davidsen Hewitt	Teacher - Music
Terry Horrigan	Director -TV Production
Herbert Howell	Night Watchman – TV Studios
Maurice Johnson	Teacher - U.S. History

Daniel Johnson	Teacher - Science
Ruth Jones	Teacher -Title III ITV
Wilbur G. Kelley	Chief Engineer - ITV
Edward C. Kercheval	Teacher – English, Director of Public Relations, Deputy
	Superintendent
Marvin R. Kershner	Video Tape TV Production
Robert Kinsley	Teacher - Art, Title III ITV
Lester Leggett, Jr.	TV Production
Robert F. Lesher	2nd Coordinator of Instructional TV
Brian Leiter	TV Production
David W. Livengood	TV Production
H. Jane Martin	Teacher - Core 8 - English & Hist.
J. Allen Martin	Teacher - Science
Loren E. (Mac) McCarthy	Assistant Chief Engineer
Mary Michael	Teacher – Washington County Social Studies
David M. Miles	Supervisor Title III ITV
John R. Miles	Coordinator- Instructional Mtls.
JoAnn Miller	Teacher - English
Russell G. (Chip) Miller	Engineering TV Production
Claire Minnich	Floor Director - TV Production
William Moore	Teacher - Social Studies
Barbara L. Murray	Secretary - ITV
Alta Nuce	Teacher – Special Education
John Pearl Summer	TV Service- Engineer
Eddie (King) Potts	Artist, Actor, & TV Makeup
Richard Predmore	Supv. Instr. Resource Ctr. & ITV
Melvin (Mel) Ritz	C & P Telephone – Engineer
Ralph Rohrbaugh	Teacher – Science
George Ropp	Supervisor - Principal TV Faculty
Roy (Sam) Sampsell	Illustrator – Federal Programs
Sarah Jane Shantz	Secretary - ITV
Gary Shields	Audio/Video TV Production
Mary Smith	Teacher - Social Studies
Pearl C. Snively	Teacher - Core 7
Kenneth (Kenny) Starliper	TV Service - Engineer
Joseph L. Sullivan, Jr.	Director - Television
Bernie Swope	Video Tape Operator
Vincent Tantillo	Chief Engineer ITV
D. Glenn Thomas	Director - Television
Margaret Towson	Teacher - Spanish, Supervisor
Fred Trovinger	Cameraman - TV Production
Louis Tuckerman	Teacher - History
Mildred Vance	Teacher - Science
William (Bill) Warman	C & P Telephone- Engineer
David K Zonis	TV Production

### **Additional Photos**

