A HIGH SCHOOL COURSE IN BROADCASTING: ITS EVOLUTION, CONTENT, AND STRUCTURE

Thesis for the Degree of M. A.

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Juanita Jane Rucker

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A HIGH SCHOOL COURSE IN BROADCASTING: ITS EVOLUTION, CONTENT, AND STRUCTURE

By

Jumits Jane Rocker

A THESIS

Spinitted to the College of Comministion Arts of Hichigan State University of Agriculture and Applied Science in partial fulfillment of the requirements for the degree of

HASTER OF ARTS

Department of Television, Radio and Film

PEFACE

To those principals and superintendents for inspiration and administrative guidance, which provided opportunity to gain the necessary experience through the years to give this project any worth-while quality it may have, the writer wishes to express her appreciation.

To her parents and friends who have given the quiet emouragement necessary to complete this project, she expresses a very deep gratitude.

To the present professors who have guided this project to its completion, she extends sincere thanks for their patience and wisdom in shaping it to its present form. She hopes that the materials contained herein may be of value to any reader sessing help in preparing a course of study in broadcasting for a high school class.

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Alenita Jone Rucker

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Submitted to the College of Communication Arts of Michigan State University of Agriculture and Applied Science in partial fulfillems of the requirements for the degree of

INSTER OF ARTS

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Year 1959

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ABOTPMOT

The purpose of this study is to provide a description of a course in broadcasting offered to the upper lovels of the secondary school and to present an evaluation of the owners in terms of established putterns drawn from the histories of previous courses in broadcasting.

The study is divided into four divisions. The first two trace the development of broadcasting interests and activities at the collegiate level and them in the secondary level of education. It was found that, at both levels, a curricular interest and eventual development of a curricular followed the broadcasting activity in which educational institutions exact and attempted to operate their can radio stations. The sapid, early development of this station activity and the subsequent failure to operate their can stations was a parallel sevenent at both levels. Causes of the failure were similare lack of funds and lack of levels. Causes of the failure were similare lack of funds and lack of levels.

The third division traces the development of the broadcasting activities at New Castle high School, How Castle, Indiana where this course has been offered for several years. This material indicates how the present set of objectives and the course of study evolved. The course of study and its procedures are then presented.

The fourth division presents an evaluation of the course, some recommendations, and the conclusions reached.

An evaluation of the course is used in terms of the historical approach to that has been subject in other subjects and with what objectives. It is also evaluated in terms of the general objectives of secondary education today. The subspicibility of the course is pointed sub-by presenting some suggested revisions to meet three possible school stantages:

(1) the school which desires a speech suphents in a radio course, and

(3) the school which desires a television exphasis in a broadcasting equipment,

The recommendations protected and the results of needs fall and ideas created during the years this course was evolving and during the research for the historical saterials for this study.

The conclusions reached in this study ares (1) this course in broadcosting, as presented here, for the upper levels of the secondary school,
is practical and can be recommended to other schools with similar
facilities and needs, (2) it is fixetble and can meet other school
attentions and needs, and (3) broadcasting as a course of study scale
to have attained academic recognition in both the secondary school and
in institutions of higher education.

Two trends were noted at the collegiate level of education. One was a more toward a philosophy of professionalism in acadesis training in broadcastings the accord, a broader concept toward broadcasting seems to be occurring. The more is toward a concept of mess communications which implades all mess media.



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THELUCTION

The achievements of science since the turn of the century have advanced human civilisation more than in the previous five hundred years. Life has become easier and more pleasant. Man can move about faster and can communicate with his fellowan almost everywhere on the face of the earth. Accompanying all this change and seeming efficiency have been technological problems and problems in human relations. In less than seventy-five years, radio, television, and the airplane have made this world seemingly very small; they have made our modern society source of man and their affairs on the other side of the world, man about whom there had previously been little thought or concern. These developed a need for knowledge and skills that would help unrawel the mysteries of these man and their affairs.

In short, there was a need for education, technological and seciological. Thus the achievements of science, which in themselves are the result of education, produced needs for more education. Today, because of these new media of communication and transportation, education is faced with new challenges and wider vistas.

Receased reports spell out in detail the story of how man has changed his ways of doing and thinking because the new media of communication, radio and television, have brought into his daily amareness a whole world, its activities, its conflicts, needs, and desires, its wide spage of human emotions.

It is not the purpose of this study to trace or report the story of the impact of these media upon society. It is, however, the purpose of this study to show one small means available to man which may sharpen his ability to comprehend and assimilate these media into modern living and thinking. That way is to provide training at the secondary level of education in and with these new communication tools. Such training would not be purely vocational, but would aim toward a broad, general comprehension of radio and television, their uses, the skills they demand, their potentials.

adio-Television Education in Cur Society

Education has been defined as the process by which society preserves and transmits its intellectual and cultural heritage and expresses itself through teaching and learning. For effective transmission, teachers should be skilled in the arts of communication. These teachers should possess an understanding and an appreciation of those devices, and a knowledge of their history and service to mankind. The printing press was such a device. Later the chalkboard and then the motion picture and numerous other tools came to the aid of the teacher. In the late trunties of this century, radio, and in the mid-forties, television, become smallable tools for the communication of the knowledge and culture of our civilization to present day society.

Arthur B. Mochlman, School Administration, (New Yorks Houghton Mifflim Company, 1951), p. 3.

By 1918, it had been established that radio was a dynamic, social force. Willey and Young, discussing the dynamic force of radio in elementary education, wrote that:

Radio can, and does, become a great index to public taste. The attempt to learn about public opinion via radio is no longer a gross error, an inexact effort at measurement but has been developed into a real science.

By 1948, it had been established that television was a dynamic, social force, too.

Horisons have been greatly expanded: millions of people have seen the ballet, have travelled to distant lands, have explored some of the country's best museums; experiences they could never have in their own life times. Television has taken its viewers into the United Nations, into the meetings of Congressional investigating committees. It has led a mass andience into intimate, active participation in the political heart of the country in a way never dreamed possible. The range here is without bounds.

Today, after only thirty-eight years, a very short span of time in terms of man's history, radio has reached a universality of use and acceptance that other technical tools took centuries to attain. One hundred and thirty-nine million radio sets keep our nation tuned to "today's news today." And now we have television. The Mational Breadensting Company's Research Department estimated there were by 5

Play D. Willey and Helen Toung, Radio in Elementary Education, (Boston: D. C. Heath & Company, 1948), p. 218.

William Y. Klliott (ed.), Television's Impact on American Culture, (East Leasing: Michigan State University, 1956), p. 181.

^{**} Radio's Dimensions Today, Syonsor, (June 21, 1958), p. 13.

ing andience is one hundred and twenty million. Figures for June 1953, show that of the estimated 50.6 million homes in the United States, 16.7 millions have at least one radio set in operation and 12 million homes have at least one television set in operation.

Reviewing the statistics concerning TV set saturation and audience potential. H. K. Nesburn says of this informations

Any activity which involves such a percentage of the child's time is worthy of considerable attention on the part of every educator.

Results of research and experiments currently being carried on in almost 150 elected circuit installations and the nation's 32 educational television (ETV) stations as well as numerous telecourses over

^{*}Mileriaion Factbook No. 25 (1957), p. 25.

^{*}H. K. Hesburn, "Television and the Future of Education," Educational Forum, XXII (Nay, 1953), p. 309.

[&]quot;Spongor, log. cit.

Broadcasting-Telecasting (June 30, 1958), p. 39. Also for more detailed set information, see: The Advertising Research Foundation, Mational Survey of Radio and Television Sets Associated with U.S. Households, Hav. 1954. (New Yorks The Foundation, 1954).

[&]quot;Neuburn, ep. cit., p. 390.

^{*}Appendix O: Cleard-circuit Educational Television in Schools, Colleges, Universities, and Defense Installations, Television in Education.

Office of Education Bulletin, No. 21 (Washington: Government Frinting Office, 1957), pp. 107-110. There are 111 installations listed here.

^{14,000.} Pastabost, (Nay, 1958).

instruction is by television as by classroom instruction.

The impact of these media upon society in general has been such that it murits wide-ranged research and discussion, but the influence of these media upon the high school student is particularly pertinent to this study.

In 1946, Paul Lagarsfeld reported on a study made by the National Orinion Research Center.

According to the findings of this survey, 60% of the high school pupils questioned believed that they had gained general knowledge from radio listening, 35% said they had acquired practical information from the medium, and 20% indicated that they had gained enjoyment of cultural information from the radio.¹³

important roles in the life of today's high school student. Feeple of high school age are now, and will continue to be, consumers of the radio and television product; they should understand the product. The consumer role encompasses all students. However, the growth of the industry has erested another need, that of providing foundations for

Name of Progress in Educational Television. (Namedington, D. C., 1955), pp. 82-83.

Real Mouroe (ed.) Encycloredia Educational Research. (New York: Macmillan, 1950), pp. 958-959. This survey of research done on learning by madio instruction reports same findings.

Hider Kusate. An Inventory of Instruction Tolevision Research.

A preject of the Institute of Communications Research at the University of Illinois (Ann Arbor, Michigans Educational Television and Radio Conter, December 1, 1956).

Poul Legarafeld, The Foorle Look at Madio, (Chapel Hills Watwardter of North Carolina From, 1946), p. 122.

careers. The industry and its related fields have opened many new employment possibilities. Many of those who act as consumers will also be employed, directly or indirectly, in the business of broadcasting.

The development of the radio-television industry was rapid. The transmious activity in electronics research and development, and the quick expansion of the electronics manufacturing industry has demanded trained personnel. Over 3000 A. M. and 500 F. M. radio stations and almost 500 television stations are now licensed by the F. C. C. Some of the commercial stations are beaming programs into the schools of their communities and many are presenting local students on a public relations basis. These figures indicate that there is much activity in broadcasting and this activity requires personnel.

Industry turned to education to help meet the need. In 1956, the United States Office of Education made this report concerning the needs of the industry.

The rapid increase in the production and use of radio, television and electronic equipment is one of the most amazing developments of our day. Expansion in the use of radio came first and it represents one of the very large industries of the country today. As the use of radio almost overshadowed the use of the plane and the phonograph in the 1920's, so today television threatens to overshadow the popularity of radio. The television industry alone has increased its production of TV sets from '7500 in 1946 to 6,500,000 sets in 1950' (Figures from Deshurst, Frederic J., and Associates, America's Needs and Rescurces, New York: The Twentieth Century Fund, 1955, p. 357). According to America's Needs and Rescurces, the 'development of electronics during the past decade

²⁴ Broadcasting-Telecasting, op. cit., p. 98. (3206 A. M. stations, 52k F. M. stations, and ki5 T. V. stations in operation.)

is ushering in a new and revolutionary era of automation. (sume) Hamy industries are now in the process of converting to electronic sometime to modernize their production.

because of this enormous expansion in the entire field of electronice, it is important to recognize that this field should be exphasized in whatever ways possible in school programs, whether by courses or by extra class activities. Our economy will, require engineers, technicians, machine operators, associalers, and also communications specialists in the field of radio. The benefits of radio and areateur radio communications as a worth while hobby should be also recognized. The United States has more licensed anatour radio operators than all the rest of the world put together. 18

It is apparent to the most casual observer that radio and television are dynamic forces in our society. Today's high school student, in his present and future role as a consumer of the radio and television product, should be made some of the workings of the industry, its sociological potential, and its responsibilities. In addition, many of these statemes will one day be engaged in professional activities directly or indirectly related to the radio and television industry. A few will be employed by radio and television stations; others will be engaged in the design and manufacture of equipment; others will find their work in advertising agencies; some will be marketing new products; and still others will be working in related media. A radioentary, but comprehensive knowledge of the media can be especially helpful to all of these young people.

photography, radio for secondary school purils. Bullstin No. 11, (Neshington, D. C., Government Printing Office, 1956), p. 23.

An emercess of a need for formal training, both on the sociological and professional levels, was first falt by educators at institutions of higher learning. In addition to their recognition of broadcasting as a social force, colleges and universities answered the desand for trained professional workers. Eventually there was a domand for such training at the secondary level. Here also, educators falt the responsibility to de more than provide vocational training. Both university and public school administrators insisted that any study of these social should lead to an appreciation and understanding of their function in our society.

Assumtions.

The mend for maintaining such a course of instruction on the secondary level is based on three assumptions, two of which have to do with the sociological implications of the media. First, it is assumed that because broadcasting has such an impact upon our daily lives, there is a need for intelligent assimilation, and that intelligent assimilation can be the product of organized, directed study in which young people are trained to understand and manage this new tool of living. Secondly, it is assumed that broadcasting is now a vital part of our culture and that the steay of how it came to be and what man is doing about controlling and directing it is part of every child's heritage. The third assumption has to de with the educator's responsibility to meet employment demands because of the demands for trained personnel, schoolers must accept the responsibility to provide professional training for intersected young people.

Educators have been challenged to incorporate a study of these media in their curricula which would enable our population to understand and appreciate them. Those responsible for planning and guiding our educational programs must accept this responsibility.

Need for the Study

The impact of radio and television upon society and industry was

first recognised by colleges and universities. Eventually, administrators

at the secondary levels of education felt the need to incorporate in

their curricula a study of those media that will lead to understanding

and appreciation.

High schools are now adding courses in broadcasting to their speech or English areas of study. Most of the text books in radio and television now swallable are geared to college use and are therefore not too acceptable for high school use. Most high school speech texts include a chapter on radio and/or television but this is inadequate for a smaster's study. Teachers who are asked to teach these courses are usually in the speech, English, music, social studies, or sadio-visual fields. Their specific training does not include sufficient background in madio-television to enable them to adapt the existing text materials.

Time, there is a need for a text book, or a detailed course of stady that will meet these requirements:

1. It should present sufficient material for at least a semester's study.

- 2. It should require a calibre of work that will challenge the stadems in the eleventh and twelfth grades of high school.
- J. Its objectives should be within the broad range of the educational philosophy of the secondary school.
- 4. Nethods and content within the course should meet the approval of the collegiste and professional broadcasters.

Purpose of the Study

The purpose of this study is to provide a description of a course in broadcasting offered to the upper levels of the secondary school and to present an evaluation of the course in terms of established patterns drawn from the histories of previous courses in broadcasting.

The course of study as presented here was offered in New Castle, Indiana Senier High School during the school year 1957-1958. This course was the result of a development based upon a process of selection, rejection, and addition applied to the materials of the historical study, to the materials and methods projected in swallable college textbooks, and experimentation in the classroom.

Since the study is primarily concerned with the presentation of a curvicular offering in the area of broadcasting for eleventh and twelfth grade high school students who have had some speech training, it has sound advisable to set this presentation in broad perspective by first equalizing the history of broadcasting in education and proceeding from these to a servey of secondary school broadcasting activities.

The development of the curriculum at both levels was contingent upon the development of stations owned and operated at both levels.

It has been pointed out above that there is a need for such a course. Four exiteria which such a course should neet were listed. In addition to those criteria, the writer believes that such a course of study should also neet these conditions:

- 1. It should be flexible so that both large and small schools might find it usoful,
- 2. It should be constructed so that it can be adapted to meet the meets of the schools
 - a) which do and do not present a prerequisite in speech,
 - b) which may have a maximum or a minimum of broadcast equipment and facilities,
- 3. Its content and objectives should be justifiable financially and academically,
- h. It should provide students with experiences that:
 - a) Will maintain and further the development of their language skills.
 - b) Will continue to develop their powers of observation, reasoning, and problem-solving,
 - e) Will add to their sourcess of our past culture,
 - d) Will provide them with a basis for understanding and evaluating a new tool of living in the present-day world.

Background and Procedure

In order to create such a course of study, it was necessary to determine the assurers to these questions:

- 1. Was there a need for such a course?
- 2. What has been the history of the secondary school curricula in the areas of broadcasting?
- 3. What and how much have schools been offering in these areas?
- 4. What is the trend and basic philosophy of what has been offered?

As background for this study, the writer has examined the evallable literature and publications concerned with radio and television as embject matter at the secondary level. An examination was made of research materials on the impact of these madia upon our society. The problems, failures, and successes of educational broadcasting as shown by past and surrent studies were investigated. A review was made of current transs in secondary educational philosophy.

The writer, who has been a teacher at the secondary level in various areas of speech, English, and psychology, was assigned the task of being one of two persons responsible for establishing the sixth ten-wat frequency-modulation radio station to be caused and operated by a city school system. Operating that station five years, and teaching section courses for many years prior to the station's existence have

NAME FM, City Schools, New Castle, Indiana, 91.1 magacyoles.

provided perspective and techniques which the writer believes are practical.

In gathering and treating these materials for presentation, the writer has found it necessary to combine the historical and problem-colving methods.

Scope and Limitations

This study is a translation of personal experiences and investigation into a source of study in broadcasting for use at the high school
level. The study has been limited to radio and television as a
corricular offering with the exphasis upon radio.

Endio is less than forty years old and television is younger than that. Communantly, research has been limited to the last forty years.

No doubt there are some units on the study of broadcasting being tempts in English, draws, speech, and social studies classes that were not discovered by this writer. The difficulty in such an investigation lies in the fact that the content of courses is not discountible from their titles. But an effort has been made to obtain as broad and therough a picture of carrioular work in broadcasting as the available literature would possit.

Definitions

Trace levels of secondary education—is used in this study to refer to the eleventh and twelfth grades of the twelve-year public school program. Course of study—indicates a basic outline of related materials that includes objectives, procedures, and suggested activities for an eighteen-week or one-semester study, for which there will be some credit granted towards graduation. It is essumed that most high school classes much daily and class periods usually run between forty-five and fifty—five minutes.

Executional mails and television—There is much confusion that execution the trace of this title and also a similar one, "television and radio in education." It is recognized that there are several facets of severalled educational broadcasting. Therefore, in this study, the title, "mails or television in education," will refer to the inclusion of consess of study about radio anti/or television in the corrioulum which thench

- 1. Testiniques,
- 2. Scille.
- 3. Arts.
- 4. An appreciation of the industry and/or clubs and workshops in the extra-curvicular program.

"Rimentional broadcasting" or "educational radio and television" will suggest the use of the broadcast progress for instructional and enrichment purposes in the classroom.

CHAPTER I

HISTORY OF DEVELOPMENT OF BROADCASTING IN EIGHER EDUCATION

Introduction

In order to set this investigation in broad perspective, the bistory of broadcasting in education is exemined. Since this investigation is economical with a course of study for the secondary level of education, it seems advisable to present the findings of this historical chady in two parts: broadcasting activities in institutions of higher education and broadcasting in secondary education. Therefore, this chapter traces the history of the development of broadcasting in higher education, focusing on significant factors, traces, and influences upon the development of broadcasting in education, generally. It presents that history in two parts: the development of station operation and the development of a curricular interest in broadcasting.

The Rise and Peoline of Educationally Owned Stations

The history of broadcasting shows an early recognition by educators of broadcasting's potential for education. The repid rise of educationally small and operated stations here evidence of this interest. (Table 1-1)

Although the history of broadcasting is usually considered as beginning shows 1921, there are evidences of successful broadcasting experiments before that time. Deforest is reported to have successfully broadcast in France as early as 1908, and in this country in 1916. Marie was seconsofully broadcast through the isboratory facilities of the University of Misconsin in 1917. However, a Westinghouse transmitter efficially week on the air as XUKA on Movember 2, 1920, and thus became the first licensed broadcasting station. The first program by Kikk, a reminedy licensed broadcast station, was the reading of the Harding-Cox election returns. On Jamery 13, 1922, the University of Minnesota and the University of Missonsin went on the sire time becoming the first educational stations to operate. By 1925, the FCC had suthorised 571 stations: 176 of these were owned by adventional institutions (see Tables 1.1 and 1.2). By 1930, 612 stations were on the airs 197 of them were educationally enmed. By 1935, the proportion was one to three; 201 of the 605 authorized stations were educationally owned (see Table 1.3). In other words, educational institutions were receiving about one-third of the licenses that were being issued.

[&]quot;Gydney W. Head, Broadcasting in America, (Bostons Houghton Mifflin Company, 1956), p. 102.

S. E. Prost, dr., Education's Own Stations, (Chicago: University of Chicago Press, 1937), p. hoh.

Head, on sit., p. 107.

Correll Atkinson, American Universities and Colleges That Hors Hold Produces Licenses, (Bostons The sendor Publishing Corpany, 1961), p. 17.

[&]quot;It should be noted in Table 1.1 (column 2) that most of the licenses received by institutions of higher learning were not being held. See discussion later in this chapter.

Furthermore, institutions of higher education were receiving the majority of these licenses. By 1933, 202 broadcast licenses had been immed to educational institutions; of these 202, institutions of higher education held 124 (see Table 1.1).

A factor that sided in this early development of radio stations council by educational institutions was the enthusiasm and stimulation that came from various national organisations.

The 1923 Oskland-San Francisco convention of the National Education
Association sponsored a series of informal speaking programs over a local
station. In 1926, the N. E. A. sponsored a series of speeches locally
in Washington, D. C. over VEC in cooperation with the National Broadcasting
Company. The 1928 Boston convention of the Department of Superintendents
of the N. E. A. sponsored its first nationwide hook-up.

Frost, log. cil. For a detailed account of this early rush to set on the sir. see

Walter S. Monroe (ed.), Encyclopedia of Educational Research, (Mar York: Mesmillen Company, 1950), pp. 953-955.

Elsine Exton, "Developments in Educational Radio and Television," The School Board Journal, CXVIII (April, 1946), p. 53.

Corroll Atkinson, Development of Radio Education Policies in American Public Echools, (Edinboro, Ferm., Edinboro Educational Frees, 1939), pp. 1-34.

Omwoll Atkinson, <u>Universities Have Held License</u>, on oit. S. I. Prost, Jr., on oit.

Milliam B. Levenson and Edward Stanheff, Teaching Through Radio and Television, (New York: Rinehert and Company, Inc., 1952), pp. 33-61.

Michard B. Hull, "The Story Bohind ETV," The H.A.E.B. Journal.
XVII (Pehruary, 1953), p. 6.

Vitkinson, Development of Ratio Policies, op. cit., p. 29.

TABLE 1.1
EDUCATIONAL BROADCAST LICHISHS BUTWHEN 1921 AND 1936[®]

•	Airbe		Cumulative	Received by
Year	Received	Lost	Total	ligher Education
1921	1	0	1	0
1982	73	7	67	60
1923	39 38	18 24	67 63	23
1924	38	24	102	17
1925	25	37	90	9
1926	10	8	92	3
1927	6	8 6	90	3 1
1928	4	23	71	2
1929	1 0	13	59	1 3
1930	0	9	59 50	9
1931	1	2	49	1
1932	0	k	1.5	0
1933	0 2	اب 5 1	15 10	0
1934	2	ĺ	1.1	0
1935	1	3	39	1
1936	1	1	35	0
Total	202	164	942	123 ⁶

^{*}Proct, 42. 412., pp. 3-5.

Atkinson, Universities Here Held Licenses, on cit., p. 16.

The above totals due to the fact that Alabama College and University of Alabama did not hold original license but assumed joint comercian of station licensed to Alabama Folytechnic Institute on February 25, 1929. It must be remembered that St. Horthbert College came and operates two redio stations. This.

TABLE 1.2 BRADGAST PAGILITIES: 1922 TO 1958[®]

Yoar	Authorized On the Air	PA	27
1922 1923 1924	302 573 530 571	On the Air Authorized	On the Air Authorized
1925 1926 1927 1928 1929 1930	571 528 682 677 618 612		
1931 1932 1933 1934 1935	608 606 610 591 605		
1936 1937 1938 1939 1940	632 676 747 718 817	21 20 37 10 23 22 25	
1911 1912 1913 1914 1915	897 925 912 924 955	67 60 41 47 53	8 5 4 6
1916	1,215	55	6
1947 1948 1949 1950	1,795 2,034 2,179 2,303	55 236 587 737 691	12 30 69 10h
1951 1952 1953 1954 1955	2,385 2,420 2,584 2,697 2,840	649 629 580 553 540	107 108 198 102 158
1956 1957 1958	3,020 3,164 3,000 3,353 3,212	530 513 552 526 634	496 477 638 418 665
1959°	3,447 3,289	543 709	lulii 668

Producesting-Telegasting, 51 (October 15, 1956), p. 130. All figures as of June 30, each, between 1922 and 1956, came from FGC sources. FA-TV were authorized to commence regular broadcasting in 1961. FA stations prior to that year were under experimental high-frequency authorizations, and TV stations under experimental visual broadcasting grants.

b proadcesting followarding: 53 (July 8, 1957), p. 87; 1958 figures from 55 (July 28, 1958), p. 112. Figures are for June 30, each year.

Carch 16, 1959), p. 163.

TABLE 1.3
COMPARISON OF TOTAL AM STATION AUTHORIZATION AND EXUCATIONALLY OMNED STATIONS

Your	Total	Educational
1925	571	176
1930	612	197
1935	635	201
1936	632	sos _p

^{*}Frost's study ended with 1936 figures.

bof this 202, 16h had seemed to hold their licenses by 1936. See Tables 1.1 and 1.2. It is interesting to note, also, that figures for 1957 show 552 FH stations authorized (Table 1.2) and that 148 were non-commercial stations (Table 1.6).

In 1926, a group of educators met in a national radio conference which was called by Secretary of Commerce Herbert Hoover. At this meeting they formed the Association of College and University Broadcasters, which in 1936 became the Mational Association of Educational Broadcasters, or the MAES. This is the oldest organization in the field of educational broadcasting; it has been instrumental in the formation of similar agencies, such as the JUET and the ETHC. The NAES was one of the first fund raisers for the JUET and was responsible for the idea of a "network center," such as the ETHC was to become when it was suggested to the FAE.

In 1930, the National Advisory Council on Radio was organized to stimulate an interest in the medium. With other similar organizations, it cooperated in much of the early research into radio in education.

Apparently the first organised effort at radio education was developed through the Leadership of May Lyman Wilbur, then Secretary of the Department of the Interior. The work he began in 1929 led to the organisation of the National Committee on Riucation by Radio in 1930.

[&]quot;Hall, "The History of ETV," on. cit., p. 5.

[&]quot;Harry J. Skornia, "Services of the NAEB," The NAEB Journal, XVII (February, 1958), p. 7.

Did.

¹³Levenson and Stasheff, op. cit., pp. 40, 270.

cation, (Bostons D. C. Heath and Company, 1948), p. 386. For a more complete report on this organization, see Frank Earnest Hill, Tune in for Education: Eleven Years of Education by Radio. (National Committee on Education by Radio, 1942). Also see Atkinson, Development of Radio Policies, op. cit.

A colorful phase of radio education history has been the struggle of educators against domination of the field by commercial interests . . . The Hational Committee on Education by Radio, financed by the Fayne Fund, . . . ennounced its purpose . . . in 1931 . . . (see) * . . . to secure to the people of the United States the use of radio for educational purposes . . . * 120

This Cormittee challenged the old Federal Radio Cormission. It introduced bills into the Senate and published articles demanding the rights of the educational broadcaster to broadcast. Believing that its work was done, the Committee dissolved itself in 1966. Willey and Young summarised the work as follows: "This Committee was extremely active and it achieved its purpose of protecting the right of the educational broadcaster."

when the Federal Radio Commission became the new Federal Communications Commission (by the Act of 1934) and had power to sot, much of the bitterness of the struggle between industry and education disappeared. The FCC formed the Federal Radio Education Commissions Commissioner John W. Studebaker became chairman. The purpose of this committee was to join industry and education together, to eliminate controversies and missionstructurings, and to unify their size and methods.

These were the national groups that maintained an interest in and supported the novement of educational radio in those early days. They fought to preserve the broadcaster's rights to broadcast and tried to encourage institutions of higher learning to enter into broadcasting.

Mitthisson, Development of Medio Policies, on eit., pp. 5-6.

Milley and Young, log. cit.

²⁵ Thid., pp. 387-388. Atkinson, Development of Radio Policies, op. sit., pp. 5-8.

Some of these same groups and others with a similar purpose were to be active in the late forties when frequency modulation and television were to become realities.

the educators, were intrigued with this new electronic mass medium of communication. In the early days of radio, people were not concerned with might they heard; they were more interested in discovering how far many a station was located; they dialed around the band to discover how many different stations they might "pull in" on their sets. Between 1922 and 1926, radio sets were sold by the millions.

In spite of all this general public interest in radio, in spite of the engagement of educators to get on the eig, and in spite of all the support and encouragement from various civic groups, institutions began to parent their licenses to expire (see Table 1.1). This initial rush to get on the air was followed by a sharp decline in the number of educational stations. By 1932, the trend was obvious by 1937, 164 stations had occured to operate; and by 1945, only twenty-six stations was on the air.

[&]quot;Mall, log. cit. Willey and Young, on. cit., p. 380.

Radio sets are still sold by the millions. By the end of 1956, it was estimated that there were 53.2 million radio homes in the United States, there were 37.5 million radios in automobiles, making a total of 113.5 million radios in use in the United States. Figures from 1957 Broadcasting-Teleoseting Market Book Issue, p. 30. (See Table 1.4.) Today, it is estimated that there are 156 million radio sets in use, should be as many as ten years ago. (See Table 1.4.)

Pionroe, log. cit. Exton, log. cit. Bull, log. cit.

TABLE 1.4

RADIO SETS IN USE^A

Year	Redio Homes	Redice in Autos	Total Radios
1931	14,000,000	100,000	15,000,000
1941	29,700,000	8,750,000	56,000,000
1951	18,750,000	20,000,000	107,250,000
1956	53,200,000	37,500,000	113,500,000
1957b		Ŧ	
1958 ^e			156,000,000

Broadcasting-Telecasting Teerbook-Sarket Book, 1957, p. 30. Figures for end of December, 1956. Year 1931 was first year reported.

Using A. C. Heilson figures as of March 1957, "The Real Radio Story,"

<u>Television Age</u>, V (August 12, 1957), p. 29, indicates 47.7 million
potential radio homes, but only 66% or 31 million are reached; whereas
there are 39.3 million potential television homes and 90% or 36 million
reached.

They're Taking a New Look at Madio," Sponsor, XII (June 21, 1958), p. 32, indicates "radio listening is up about eight percent on a weakly cure basis, and there is a slight decrease in total hours tuned in." In other words, more people are listening to radio but listening is being done over shorter periods of time. "... today, there are 156 million radio receivers in use, which is a little over twice as many as ten years ago."

Frost reports in detail this decline in the number of stations (See Table 1.5).

On Jamery 1, 1937, only thirty-eight [licenses] were held by educational institutions, . . . It is significant to note that of the 16k broadcast licenses lost by educational institutions, 50, or 30.5 percent, were held by their respective institutions for a period of less than one years 85, or 51.8 percent, less than two years 109, or 66.6 percent, less than three years; and only 55, or 33.5k percent, three years or more.

It is evident that there was a sharp decline in the number of institutions coming radio stations and that those which gave up their licenses operated for only brief periods of time; about two-thirds operated less than three years (Table 1.5).

Stations are eited by several investigators, who apparently agreed as to the emass for lack of success. There is an obvious similarity in their reports. The lack of funds, of broadcasting skills, of adequate facilities, of receiving equipment, of skill in classroom utilisation and evaluation are most often listed as ceases of failure. Some studies also indicate that the competition offered by the commercially owned stations and the influence of faderal regulation, which tended to favor the commercial stations by strengthening them, was too great.

³⁰ Prost, on cit., pp. 3-5.

Bill, op. cit., p. 6.

Mionroe, log. sit.

TABLE 1.5

LEMOTH OF THE EJUCATIONAL INSTITUTIONS HELD THEIR
BUYABCAST LIVENSES BETWEEN 1922 AND 1937

Tours Held	Ruber	Total Lost	Percentage of Those Lost, 164
Less than one 1 - 2 2 - 3	50 35 214	50 85 109	33.5 51.8 66.46
3 - 4 4 - 5 5 - 6 6 - 7 7 - 8 8 - 9 9 - 20 10 - 11	16 13 6 5 7 2 7		
12-43 13-41 14-45	\$ \$ \$0	55 b	33.54
	208	164	100.00

Frost, op. 511., pp. 4-5.

There were 38 stations in operation in 1937; 164 had ceased operations. The percentages reflect how long those stations which ceased operations remained on the air. No figures are available for determining how long each of the 38 stations on the air in 1937 had been operating.

Exectors seemed to put the responsibility on their commercial competitors for their failures in broadcasting. There was some bitterness on the part of educators, but apparently only in isolated instances. But it must not be inferred that all commercial broadcasters were unco-sparetive with the educational broadcasting movement. Atkinson, one of the emplicate to make a thorough investigation into the history of educational broadcasting, refers to his correspondence relative to this problem of competition. "There are muserous confidential complaints that educational radio policies have been stynisd"; he calls it a "bitter wood-battle." Apparently Atkinson was impressed with the positive suther them with the negative aspects of the relationship between the commercial and educational broadcaster.

Hell also implied that he believed the educators guilty of this kind of attitude in his report of the history behind ETV; "... educators
... tended to blame American commercial broadcasters for their plight."

Attingon apparently felt impelled to defend the commercial broad-

Commercial interests, as a thole, have limed up as strongly as possible with reputable educational interests, not only for the

Makingon, Development of Radio Policies, op. cit., p. 8.

sond.

Mall, op. alt., pp. 6, 27.

which of being able to make an accurate and imposing-looking report of their services to the community but also because educators are improving the radio broadcasts they prepare and present and thus are helpful in many instances to build up suther them tear down the station's listening sudience. There are isolated instances, of course, where this cooperation has been lacking. . . . Commercial stations have borrowed freely from ideas and techniques developed by educators; school people have returned the compliment by initating successful commercial program ideas. Both groups today have been getting together upon frequent conssions for the purpose of mutual self-improvement by exchanges of ideas. Both

Jost blaning commercial radio for their plight. They were constinue guilty of not being educators in the same that they failed to evaluate this new tool in educations they failed to recognize the fact that if a new tool is to produce worth-while results, skill in its use and understanding of its function must be obtained first. As G. H. Jansky, a Mashington consulting engineer told a group of educators:

*Norty educational stations were developed primarily by engineers . . . education as a whole paid little attention to what was going on . . . The pioneer was the engineer, and not the specialist in education or the educational administrator . . . The prime reason for the loss of ground by educational stations is due to the fact . . . our leading educators . . . never looked upon . . . their stations as major activities.

Writing "American Radio," which was to be a part of the University of Chicago Freedom of the Press Report, Liveleys White ignored the fact that most of these stations were really experiments in physics or electrical engineering laboratories; he described this "virtual

Mikkinson, Development of Recto Policies, op. cit., pp. 11-12.

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decimation of education's dresm of mass education by radio" as "the light that failed."

In a discussion of the impact of the broadcast media upon society William Elliott summarises the factors involved in this decline of educational radio stations.

The mortality rate of educational stations reached its peak long before the Federal Communications Commission was formed in 1934. The reasons for their demise fall into three categories: natural, environmental, and governmental. The greater portion of drop-outs can be accounted for by the weaknesses which seem inherent in educational stations: financial difficulty and faculty indifference. Other stations were driven off the air by the increased competition of commercial operators. Erratic hours of broadcast and amateurish programming lost the stations' sudience to the commercial professional. In retrospect, much of the attrition was inevitable though regrettable. Universities jumped into radio before they appreciated the burdens that broadcasting entails. When they realized the measure of the onerous responsibility they had assumed, they extricated themselves as best they could. ***

Although Dorothy Elock was writing for the reader-audience of secondary principals, her point concerning education's use of radio is applicable here:

initial impetus in the physics and electrical engineering areas. Some examples are WCAL (St. Claf College), WBAA (Purche University), and WEAR (Michigan State University). Interest in those areas is dated as early as 1917. These stations received their licenses to operate in 1922. For further details see the Journal of the AEE, series of articles, "Educational Radio Stations," in the October, 1949 and Pebruary and March, 1950 issues, volume IX. For complete report on each station's early history and their difficulties, see Carroll Atkinson, American Universities and Colleges that Have Held Broadcast License, op. cit.

William Y. Elliott (ed), Television's Impact on American Culture, (East Lansing: Stichigan State University Press, 1956) p. 66.

Experience has demonstrated in so many fields, no new tool in the hands of man can be of benefit to him unless he has learned through education must the purposes, the uses, and the dangers of that tool are. **

estional uses of radio, educators tried to utilize its product. Naturally, inexperience in handling the tool produced frustration, disappointment, and even failure in some cases. Inexperience and lack of specific skills, equipment, and know-how were major factors in the decline of the number of educationally owned radio stations. Charles Siepman, author and critic, stated it succinctly when he wrote that educational broadcasting was "at best a struggle against almost hopeless odds; at worst a story of shour professional incompetence."

A New Fre in Broadcasting

The period between 1921 and 1938 may be considered as the first period in the history of broadcasting in education. Atkinson calls it a "trial and error period."

In 1938 all this activity of struggling stations and organizational pressures of various kinds seemed to some into focus. The FCG announced that five channels in the ultra-high-frequency band had been allocated for assignments to noncommercial broadcast stations.

School System Radio Stations, "Rulletin of National Association of Secondary School Principals, XXXII (January, 1953), p. 56.

Bill, loc. oit.

²⁰¹tkinson, Development of Redio Policies, on. cit., p. 95.

Stavenson and Stasbeff, op. cit., p. 52.

Experience has demonstrated in so many fields, no new tool in the bands of man can be of benefit to him unless he has learned through education what the purposes, the uses, and the dangers of that tool are. 30

without a complete understanding of the purposes and proper eduestional uses of radio, educators tried to utilise its product. Naturally,
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and even failure in some cases. Inexperience and lack of specific skills,
equipment, and know-how were major factors in the decline of the number of
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minll, log. off.

^{*}Oltkinson, Development of Redio Policies, op. cit., p. 95.

Discourson and Stambeff, op. 011., p. 52.

This FCG amountement apparently produced no great flurry of embhasians or activity. Conditions were more or less static. A few stations relinquished their licenses, but there was no significant trend either appared or dominard. However, it should be remembered that the United States was involved in a world-wide war during the greater part of the 1940's and that the mation, as a whole, was directing all its attention and emergics into the war effort.

By the end of the war, frequency-modulation broadcasting (Fi) had everged and the FGG had already (19h5) reserved twenty channels for non-somewial use; a new period of broadcasting history had been entered.

Estimates was reserved and an upward trend was soon noted in both semmeratal and measuremental broadcasting.

There were only fifty-five suthorized commercial F4 broadcasting stations in 19k6; just one year later, their number had jumped to 238. This transmiss spart was followed in the commercial field by an upward slink until the year 1952. In 1952, there were trenty fower stations than the year just prior; this was the first time that commercial F4 failed to insuces its marker of stations. Each year since, there has been a very slight dealine, (see Table 1.2). Some who study the economics of the minution predict that commercial F4 will level off and maintain a stable condition at its present figure. See

^{**}In 1937, only thirty-eight licenses were held by educational institutions. See Prost, on oit., pp. 3-5. By 1945, only twenty-mix stations were operating. See Hourse, log. oit.; Hall, log. oit.

Silevenson and Stacheff, on cit., p. St.

^{1956),} p. 130, and Broadcasting, 56 (warch 15, 1959), p. 163.

While commercial F4 was having its sport of development, echoational or noncommercial F4 was doing likewise. It maintained a steady, though slow, increase each year. By 1950, the FCC had authorized eighty-two noncommercial F4 stations. By 1954, 123 institutions hald F4 licenses; lift were astually operating. By 1957, educational stations represented twenty-one percent of the total F3C authorizations. It is obvious then that this development was steady from the beginning in 1946 (Table 1.6).

Daring the fifteen years between 1922 and 1937, educational institutions received 202 licenses and lost logs during the eleven years between 1946 and 1957 educational institutions received 148 FK licenses and 135 were in operation in 1957. This shows a loss of only thirteen. Thus it would appear that the FK development is healthier and more stable than the earlier AK development.

It should be pointed out that these figures do not include those institutions that from the beginning maintained their AN operation or chose AN operation in recent years. There are today, thirty-seven such licenses in operation.

One factor in this FA development should be noted. In 1918, the FOC setherized the use of a low-power transmitter. Syreques University had successfully demonstrated the fessibility of a ten-sett transmitter for a period of two and one-half years. The development of the ten-sett transmitter made it possible for the small sity school system and small

serigares taken from FUG+s <u>Annual Report</u> for each year. The 1957 report calls special attention to the twenty-one percent radio of non-conservabl stations and conversal stations.

colleges and universities to enter into broadcast activities. It was conceded and did not require the high standards of engineering skill of the more powerful stations. But it was hoped that these smaller operations would slowly graduate into more powerful stations.

The low-power stations increased very repidly (Table 1.6). In 1951, thirty-mine of the minety-five nonconversial stations were ten-matt operations. Two years later, there were ten more; five additional tenuatt authorizations were granted the following year.

It is interesting to note that in 1953, the University of Honolulu acquired one of these ten-untt licenses, and still maintains that operation today. Also, in 1956, both Wisconsin and Alabama established their educational Fit regional networks.

Figures from the Office of Education, November 1957, indicate there were 153 FH stations and thirty-seven AH stations operated by educational institutions (see Tables 1.6 and 1.7).

In the mention, while the Fil movement was taking hold, educational television was developing as another phase of educational broadcasting (Table 1.7).

PCC Armed Report, (Neshington, D. C., 1947), pp. 40-41.

Directory of Members also gave useful information.

TABLE 1.6

NONCOMMERCIAL FOR STATION DEVELOPMENT FROM 1946 TO 1957

Year	Authorised	On the Air ^b	Ten-Vatte
1946	21,_	6	
1947	38°	8	
1948	46.	22	
1949	9 2 58 ^d 16		
1950	82		
1951	95		39
1952	104		39 12 19 54
1953	116		119
1954	123_	117	54
1955	127*	124	
1956	104 116 123 127 136 118	126	
1948 1948 1950 1951 1952 1953 1954 1955 1956	21,8	117 124 126 135	

Figures taken from FCC Annual Report for each year. Moncommercial FM allocations were authorized in 1946.

The FCC Annual Report, which serves as the source for these figures, omits "on the sir" data for years 1919 through 1953.

In 19h? there was a tremendous spurt in the FM development. Total authorizations by FOC on July 1, 19h6 were 55. The number jumped to 238. July 1, 19h?. These are the figures for commercial stations.

July 17, 19h8 the FCC authorized a low-power (ten-watt) license after Syracuse University had successfully demonstrated for two and one-half years the operation of a ten-watt transmitter. (FCC 19h7 Annual Report, pp. h0-h1). The report says that such of the noncommercial activity in 19h7 centered around the establishment of ten-watt stations, but gives no figures.

The FCC Annual Report for 1955 reported 127 noncommercial authorisations for this year; but the 1956 Report in comparing 1955 and 1956 figures, indicates there were 129 authorizations in 1955. The above figure is used in the table since that is the figure used by FCC in its official report.

Table 1.7
Summary of Confedial and Noncombratial TV Station Development²

	Aut	Authorized		On the Air	
Tonr	Commercial	Honoomercial	Commercial	Noncommercia	
1946 1947 1948 1949	ьо		6		
1947	66		11 29 69 104		
1948	109		29		
1949	117		69		
1950	109		104		
1951	109		107		
1951 1952	109 108 483		108		
1953	483	17	198	6	
1954	573	30	F05	6	
1953 1954 1955	573 582	17 30 34	458	11	
1956 ^b	600		196	22	
1957	678		1477	23	
1958	607 638 665		Lis	32	
1959°	668		Lild	40	

Figures for years 19h6-1955 inclusive, taken from Richard Chapin, Mass Commidations. (East Lansing, Michigans Michigan State University Press, 1957), p. 8h. It should be noted that his figures for TV stations on the air for the years 19h7 and 19h8 vary one point from those listed by the FGG as shown in Table 1.2.

Figures for the remaining years from <u>Broadcastine-Telecasting</u>: 51 (Mily 21, 1956), p. 107; 53 (Mily 8, 1957), p. 87; 55 (Mily 28, 1958), p. 112.

Broadcasting: 56 (March 16, 1959), p. 163.

of World New II, but the first station was not licensed for operation whill 1953. One went on the air that year. In 1958, five years later, thirty-two ETV stations were on the air plus five stations operated commercially by educational institutions. Two states, Alabama and Oklahowa, had established regional networks (Tables 1.6 and 1.7). By March, 1959, forty such stations were broadcasting on a regular schedule.

This is educational broadcasting and telecoasting; all these stations are camed by universities and colleges, libraries and museums, municipal composations, public school systems and state boards of instruction, and religious groups. The great majority of them operate noncommercially (Tables 1.8 and 1.9).

Locking at this history in retrospect, Levenson and Stasheff, and Hall seem to agree that it was at this point in history that the educational radio movement began "to develop a synthesis of purpose" and to bring into focus a working philosophy.

Two factors that seem to be significant in this move towards a working philosophy and the establishment of some policies and definite goals were the emergence of television and a meeting of educational breadcasters that occarred in 1949.

²⁰ JUNT Protobook, (May, 1958). Broadcasting-Telegasting.

Stations, 1957, on cit.

^{**}Broadcasting: 56 (Herch 16, 1957), p. 163.

TABLE 1.8

FR-AM ELUCATIONAL STATION OLEHERSHIP BY TYPES OF INSTITUTIONS.

Type of Institutions F	M and AM	F A	AM
Universities		58	13
Colleges		30	13
Manicipal Corporations		3	Ō
Private Schools and Institutes		3	3
Boards of Education, School District	8	lii.	1
high Schools		3	Ö
danier Colleges		3	9
County School Boards		ì	0
Libraries		2	0
State Board of Higher Education		ì	0
State of Visconsia		8	2
Total	190	153 ^b	37

Figures taken from the Office of Education Directory of A:F:-TY Stations, November, 1957.

This figure does not agree with the FXC 1957 Annual Report. The difference is due to the difference in time at which the reports were made.

EXUCATIONAL TELEVISION STATION OWNERSHIP BY TYPES OF INSTITUTIONS 2

Station	in in the second
Owned by Municipal Corporations or Foundations	30
KQED (9) San Francisco	
WTW (11) Chicago	
WYES (8) New Orleans	
WGBH (2) Boston	
WTVS (56) Detroit	
KTCA (2) Minneapolis-St. Paul	
KETO (9) St. Louis	
WHIY (35) Philadelphia	
WQED (13) Pittsburgh	
WENO (10) Hemphie	
Owned by Boards of Education (also see ENES)	5
	-
KRWA (6) Denver Public Schools	
WETV (30) Atlanta Public Schools	
WCRT (h8) Cincinnati (City and County Schools)	
WTHS (2) Miami, Dade County Schools WMVS (10) Milwankee Vocational and Adult Schools	
and (TA) attracting something and wante according	
Okmad by Universities	10
WILL (12) University of Illinois	
WKAR ^D (60) Michigan State University	
NUON (12) University of Mebraska	
WUNC (h) University of North Carolina	
WOSU (34) Ohio State University	
KUHT (8) University of Houston	
NCTS (9) University of Washington	
Wia c(21) University of Wisconsin	
KHAS (5) University of New Mexico and Board of Education, A	Touchordro
Owned by State Departments of Instruction	ESTABLISHED TO THE CALL
MISE (13) Honroe, La.	
WIPR, (6) San Juan, Puerto Rico	
KOAGO (7) Corvalis, Ore.	
Owned by States or State Legislatures	la l
WATQ (2) Andulasia	
WIIQ (7) Aunford Alabama network	
WBIG (10) Birdingham	
KETA (13) Oklahoma City	**
Totals (35 VHF and 7 UHF)	32

Information taken from FCC Angual JUHT's 1958 Educational Television Directory; and Broadcasting-Telecasting.

busine-TV (Michigan State University), Channel 60, operated on a non-reserved channel until July 1, 1958. During suspension of operations, the Michigan State University Television Development waited for complete confirmation to operate Channel 10. On March 15, 1959, it resumed operations as WHSB, Channel 10, on a shared-time basis with WHX-TV, a commercial station owned by the Television Corporation of Michigan. This is the only operation of its kind.

CNote that KNAM is jointly owned by the University of New Mexico and the Albuquerque Board of Education. It was listed under the universities because the university was listed first in the list of owners.

a KOMO is owned by State Board of Higher Education.

^{*}KETA is owned by the Oklahoma Educational Television authority, a statutory corporation established by the state legislature, which holds the construction parmit for KOED-TV, fulsa. Oklahoma plans a state-wide network for the future.

Stations licensed to educational institutions, operating commercially are:

WHEW (16) Notre Dame University
WOI (5) Iowa State College of Agriculture and Mechanic Arts
WWL (h) Loyola University
KOND (8) University of Rissouri
WHAY (2) St. Norbert College, Green Bay, Wis.

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Mr.

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In 1919, Dean Hilbur Schrave, forwardy of the Communications and Journalism School, University of Illinois, called a meeting of educational broadcasters from the United States, Canada, and Great Britain. This meeting was sponsored by the Rockefeller Foundation and the University of Illinois. This imitial meeting and subsequent meetings had three partiment results for the life of educational broadcasting. First, this group eventually became a key group in the fight for educational television channels and the ETF movement. Second, this group festered the development of plans for a nation-wide adventional radio broadcasting network. Third, it was responsible for the projection of a similar network idea for television which would become the Educational Television and Rudio Center.

Presently serving these radio and television stations are two "network" erganizations, the NACS and the EDEC.

The NAEB operators a type of natural service for its 130 institutional members. It is a simulated natural service in that its programs are effected by tope and not simultaneously at the time of production. This methods offers to its member stations between 100 and 150 programs per quantum; these programs cover a wide variety in content: Funic, draws, information, education, and programs for in-school use. The NAEB also meintains arrangements, on an exchange basis, with several foreign broadessting services, such as the BBC, Radio-Riffusion, and Radio Italia.

It also provides a wide range of services for its station members and its

⁴³ mll, on. oit., p. 28.

individual members, including workshops and seminars, scholarships for success, information about current research and production techniques, consultant services, and a placement bureau. The NAME maintains its headquarters at the University of Illinois.

Serving the educational television stations in a somewhat similar function is the ETSC (Educational Television and Radio Center), a non-profit educational corporation which maintains its offices in Ann Arbor, Michigan, and New York City. The ETSC is dedicated to the "concept of educational television on a malional basis."

The Center provides a number of services for its affiliated institrainal members. It supplies television programs on film, kinescope
recording, and live productions in cooperation with 200. It also provides
for research grants and causes research to be done. Closely tied in with
its program development activities is the continuing plan to improve
technical standards among the educational stations themselves. It disseminates printed meterials relevant to ETV, such as reprints of magazine
ceticles, crimial research reports, and instructional materials.

The Center . . . (is) a small organisation of . . . progress savisors, work of them young and borrowed from university staffs, quertered in an unpretentious building on the outskirts of . . . (Ann Arbor). Through its exchange system, the Center provides seven hours of smally programming to all ETV stations on its circuit—less than a querter of small they need. But almost all of tids material is produced originally at the local stations thermalves, and a sampling of a typical week's fare . . . (is remarkable) not by its uniformity but its while variety. 45

^{**} Presenting Mational Educational Television, (Parphlet published by Joint Council of Educational Television, Ann Arbor, Michigan).

^{**}Hilliam Harlam Hale, "A Legacy from the Model I to the Age of MIV," IVI, The Benorter, (May 30, 1957), p. 14.

STREET

In summary, broadcasting became a program service around 1920; it two in that year that Westinghouse transmitter, KDKA, broadcast the Harding-Com election returns. However, there are evidences of successful broadcasting activity as early as 1908.

It seems that educators recognised that broadcasting might have some usefulness for education. Almost immediately there began a movement emong educational institutions to acquire radio stations. The universities of Wisconsin and Minnesota share the bonor of being the first educational stations; both stations went on the air on January 13, 1922.

These two stations speamheaded a novement which developed rapidly. By 1935, the FCC had sathorized a total of 612 radio stations; 197 licenses were held by educational institutions. By 1937, education had 202 licenses; 12h were held by institutions of higher education. It may be essented that institutions of higher education lead the educational broadcasting movement and that they operated the majority of those early stations.

A number of mational agencies were instrumental in this broadcasting movement. They made their influence felt by their own broadcasting activities, by their pressures on the federal government to protect the educational interests, or by their direct encouragement given to institations to enter into broadcasting. For example, the Mational Rimestion Association perticipated in several radio broadcasts; some were nationally book-ups. The foregumest of the present Mational Association of

Educational Broadcasters was organised in 1926; the National Advisory Council on Radio and the National Cormittee on Education by Radio were both established during the 1920 s.

But in spite of all this support, the educational broadcasting movement began to fail. By 1937, 164 of the 202 licensed institutions had consed to operate.

So it may be said that educators rushed to get on the air; their markers rose repidly; they maintained about a one-to-three ratio with sommercial broadcasters. But their decline was almost as repid. By 1937, just fifteen years after the first educational license was issued, over eighty percent had suspended operations.

Looking at these figures enother way, this sharp decline in station operation reveals that the length of time any one station existed was very brief. Over two-thirds of the institutions which had licenses operated for less than three years.

Investigators agree as to some of the causes of this failure by educational institutions to continue to broadcast successfully. Many of the causes were inherent within educations some were the direct responsibility of the educators themselves. The major factors, then, that led to failure were the lack of funds and facilities and lack of skill in broadcastings some studies indicate that consecratal competition was also a factor. However, evidence seems to support the belief that when educational broadcasters prepared quality programs for their own stations or for consecratal stations, audiences were built and maintained and then

there was adequate cooperation given by commercial broadcasters.

Looking back now, it must be admitted that educators approached the task of broadcasting with insufficient knowledge, with no basis philosophy, and they failed to consider broadcasting the major activity which their early much to get on the air indicated they believed it to be.

By the end of the thirties, after a flourishing, enthusiastic beginning, a sudden decline in broadcasting activity resulted in a rather commonly accepted belief that educational broadcasting was a failure.

During the forties, the educational radio movement remained quiet. For stations were added; those that survived the troublesome thirties managed to stay on the sir. Only twenty-six were in operation in 1945.

At the end of World War II, two factors gave now life to the educational movement. They were the emergence of T.i broadcasting and television.

Apparently the work done by those early stations and committees accomplished some good. In 1945, with the emergence of PA, the PUC reserved channels for education's use. This meant that assignments were possible, that institutions did not need to worry about being usurped. There was transmisses entimalism and an upward climb in the number of stations.

Since 1946, the FCC has authorized 148 noncommercial stations. Seventy-mix of these are operated by universities and colleges.

One faster that has sided in this steady growth is the terrentt transmitter which the FCC has authorized. This meant that the small

city school systems and the small colleges and universities could broadcest. The more powerful transmitter licenses entailed too much expense and engineering know-how. This new rule on the low-power license brought about another spart of development.

Today, noncommercial FA operations represent about twenty-one per-

Almost parallel with the FA movement was the ETV movement. Its beginning was marked by difficulties. A series of meetings of educational broadensters in 1949 under the sponsorship of the Rockefeller Foundation and the University of Illinois resulted in three ideas pertinent to educational broadensting. This group became the key group in the fight for reserved channels for education's use. They fostered the idea of a mation-wide network of program service and they developed the idea of the ETHI.

Today, educational radio and television stations have two organisations which service thems the National Association of Educational
Breadcesters and the Educational Television and Radio Center. Both prowide a wide range of services to their affiliated institutional members,
such as program services, research sids and information, and technical
actions.

In April, 1952, the FCC reserved 212 TV channels (twelve percent of the total) for noncommercial use. Since then additional assignments have been reserved, making a total of 256 in January 1958. Forty ETV stations are now (Aproh 1959) on the air; and as many communities in as many states are imposting the possibilities of educational television. In addition, almost 150 closed-circuit television installations are in operation.

So it may be said that the early period of educational broadcasting was not a complete failure. That period was a trial-and-error period which provided experience which is bearing fruit in the fifties.

The Development of a Curricular Interest in Broadcasting by Institutions of Histor Education

During the first wave of entimates for broadcasting and the accompanying activity by educators, which resulted in much confusion and a considerable amount of failure, these educators learned an important leasen. They discovered that a working knowledge of a new tool and an understanding of its potential were necessary hafors the tool could be fally utilized. So courses of instructions began to appear in college catalogs. Each analyses the situation as follows:

Education by broadcasting has received a great deal more attention than education for broadcasting. The relative emphasis is natural. Educators at first thought of using broadcasting as emother device for furthering existing educational aims. Acresver, until the broadcasting industry took shape and became established there was nothing definable to educate for in broadcasting.

It is instructive to compare the academic history of journalism with that of broadcasting, since journalism is the academic field most analogous to the emergent field of broadcasting.

The first journalism courses were practical inductions into the systemics of the trade—typography, reporting, editing, and so on. Then came courses with more intellectual content—the history, economics, and ethics of the field. Next came research and evaluation.

^{*}Head, Broadcasting in America, (Bostons Houghton Mifflin Corposy, 1956), p. 412.

As early as April, 1933, the New York Times reported that colleges and universities were then offering sixteen or more courses "in broad-casting speech and widerophone technique"; and "more than fifty other institutions of higher learning which do not offer formal courses in this field" had reported that they "provide some instruction in broadcasting in commetion with other courses or to voluntary groups in the university."

In this same survey, Millson reported that the catalog description of these early courses "includes everything." At this early date, he pointed cut the potential and the monessity for detailed study of drawatic art and microphone techniques, and cited the need for specialized instruction.

At first, courses in madio performance and production appeared in setalogs as offerings of journalism, English, and music departments; a few schools established separate departments of radio. However, by 1938 the majority of colleges and universities had placed the responsibility for radio training with speech and draws faculties; more than two-thirds of the existing radio courses were offered by speech departments.

Head and Martin report that whereas only mixteen universities offered sedie instruction in 1933, 300 institutions were offering at least one course in 1938; by 1948, more than 400 institutions offered at least one course in breadcasting; thirty-five were offering non-engineering degrees, and by 1954-55, 334 institutions were offering at least two courses in

⁴⁹Milliam A. Millson, "Radio Drama and the Speech Carriculum," Constanty Journal of Speech, XI (April, 1934), p. 206.

[•] Thic., p. 207.

midition to their radio and/or television workshops; eighty-one schools listed major sequences in broadcasting which led to degrees. There was, them, a considerable development in curricular interest in broadcasting between 1933 and 1948; interest had grown enough to warrant the offering of broadcasting degrees by the middle fifties.

Even though colleges were repidly adding sources to their curricula, they were slow in determining the content, procedures, and objectives of those sources. At first, they offered training for writing, performance, and production. This was a natural sequence to the problems the schools found during their attempts to operate stations. They had discovered the lack of know-how in writing, performing, and producing for the new mediums consequently, courses were designed to meet these needs.

It was not unestarel, then, that most of the early instruction was affered mithin the framework of the speech departments. Andio was thought to be a median for the voice; it was obvious that the industry needed people with voice training.

In school and college was paramount. Courses in writing, performing, and production were vocationally slanted; the colleges and universities school consider vocational training to be one of their primary functions. So institutions of higher education began to examine the basic philosophy for effering such courses. Around hunter, in 19hh, reflected the deep

estions A New Era," Cuertarly Journal of Broadcasting and Higher Eduestions A New Era," Cuertarly Journal of Broadcasting, (Winter, 1957), p. hD. They used for their source of figures, the Office of Education servey of colleges and their curriculum offerings. See also Donald W. Hiley, "The Place of Redio in the Speech Curriculum," Cuertarly Journal of Speech, IXIV, (December, 1938), p. 622.

RADIO COURSE OFFERINGS BY LEFACUARITS FROM A SAMPLING
OF PIFTY INSTITUTIONS IN 1938

Department Offering Work	Number of Courses	Murber of Credit Hours	
Speeds Departments	65	156	
Radio Departments	14	28	
Journalism Departments	9	22	
English Departments	5	8	
Total	94 p	SITIP	

Riley, log. cit. Riley operated from a sample of 230 college bullstime and, cut of this group, discovered fifty institutions which offered radio instruction.

Riley indicates that there were 100 courses totalling 228 hours; yet his tabulations for individual departments fall short of these figures when they are totalled. Ferhaps he omitted a fifth category of "Others," totalling six courses and fourteen credit hours.

economissistations felt about the problem of place, function, and value of the radio course in educations he offered one answer to the problem of basis philosophys

The place and function of a program of education for radio within the framework of the school or college is still a very live issue in the critical thinking of many educators and professional men. The educator often feels that courses in radio lack content, stature, and educational value, and that they are used as a device to build envolvent by capitalizing upon student interest. The professional men tends to believe that a sound and practical training can be given only through actual experience in the daily routine of broadcasting. . . .

A program designed to accomplish this purpose and to stand the test of any criteria (educational or professional) would have to present first of all, a clear cut and definite statement of its objectives, . . . it is exactly at this point that much of the criticism from educational sources comes.45

costing were to warit condemic standing. Such training should develop within the student on understanding of the social implications of the medium, its political and economic significance, and certain standards of tasts and evaluation in terms of content and form. It must provide a practical and professional training in the skills and techniques of broadcasting. It must develop a body of research, create a teacher-training unit, and acquire skill in utilization of radio in the processes of education.

Apparently Head and dertin also recognised the distance between the

Sneath, XXX (October, 1944), pp. 299-300.

DM.

two points of view (the educator's and the professional's) in their discussion of broadcasting's new ere.

Initially to introduce broadcasting as a subject of study into the college curricula at all, required a rationalisation which said, in effect, 'We know that broadcasting is not in itself a fit subject for college instruction, but in so far as it is an aspect of speech (or journalism, or drawn, or any other established discipline) we can give it house room.

But courses of instruction were introduced into the curricula of colleges and universities and the number of such courses resolved rather startling figures. Even this widespread acceptance of courses in radio left such to be desired. There was an obvious lack of organization within the various schools offering these courses and the courses were apparently lacking in direction.

Obviously such widespread educational activity calls for the development of some kind of mutual understanding about objectives, standards, methods. The trouble has been that so many of these courses used their primary allegiance to educational disciplines not primarily concerned with broadcasting that the development of common understanding has been slow. 81

Aridense that there was general lack of similarity and unanimity among the institutions offering these courses is available from several sources. One such source, the Federal Radio Rimestica Committee, reported that at the extheunk of World Wer II, approximately 600 institutions were effecting weekly courses and "except for the engineering side, there was a striking lack of agreement on goals to be achieved or on wethods for

Mend and sertin, op. cit., pp. 39-40.

[·]ME

accomplishing then."

this concern about the lack of direction and organization within this curricular structure, as has already been pointed out, was prevalent among educators crospoters. Muserous studies and articles appeared in the late ferties. All lamented the status of broadcosting offerings. Studies, as late as 1969 and 1950, indicated a multiplicity of titles, a wide range of credit, a lack of general standards and purpose, as well as a lack of generally accepted standard terminology. Titles in the field of radio, as indicated in callege catalogs, were minimalize, reports Villians; he says the variety was "carried beyond bounds." The most popular title for a beginning course in radio second to be "Radio Speech." Other titles for apparently a similar course were:

^{**}Product Radio Risection Committee, "Standards for College Courses in Radio Broadcesting," <u>Courtesty Journal of Resease</u>, XXXI (April, 1945), p. 186.

^{**}Sterry M. Williams, "Status of Courses in Indio," Quarterly Juneal of Speech, XXXV (October, 1969), p. 329.

Other entress which give similar resolutes to this extress lank of agreement about the content of radio courses are:

Federal Redio Education Committee, "Directory of Colleges Offering Common in Redio-Television," (Machington, D. C., 1969).

Shings sai belie, "A burrey of the Place of Radio in the Cardonia of Salleges and Delversities in Pennsylvenia," (Topublished Bostowni discountation, Pennsylvenia State College, 1950). Also reviewed in Suggit Imagembia, (vol. 17-18), p. 211, (Merch, 1951). Galle receive conclusions similar to the Speech Association of America's Radio Germittee support which is surfaced by Villiams, inc. gif.

Sydney A. Dimond, "College Redio Verkshopered Servey," Assembled the Association for Minesion by Redio, IX, (October, 1949), p. 22.

l. Radio Speeking

2. Introduction to Radio Broadcasting

3. Principles of Radio Broadcasting 4. Broadcasting Techniques

5. Fundamentals of Broadcasting.54

The wide renge in credit was equally "beyond bounds." For example, departmental offerings ranged from two quarter hours to six semuster house of eradia. Courses which experently were similar in content were effered at all four class levels (freshmen through senior years). (see Table 1.11), and gare credit ranging from one-fourth quarter hour eredit to one senseter hour credit.

The Speech Association of America's Radio Committee in 1948 also indicated there was a lack of general standard terminology in the field of broadcasting among educators. An example the report used was the term radio education. There are three accepted interpretations for this term. To some, it refers to the training of students for a vocation in the industry: to others, it suggests utilizing the broadcast as a supplement in the elegatrons and its third common usage refers to redio broadcasts as malie relations programs. This lack of standard terranology results in confintion.

The 1918 report of the Radio Committee of the Speech Association of American uncovered sufficient evidence to varrent a cereful study of consider offerings of instruction. A careful study of 218 college estalogs revealed that 115 were offering courses in broadcasting for

William, log. cit.

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RADIO COUPARIMBIVE SURVEY COURSE (BEGINNING COURSE)
OFFICIOD AT DISFLICATIONADE LOVILS

Class Loyel	Nuber Institutions	
As freshmen course	9	
As sophomore course	39	
As juntor course	15	
As senior course	4	
As a graduate course	1	

eredit. The startling fact discovered was that of the 115 institutions, 52% offered no more than two courses, (Table 1.12). Only thirteen schools met the requirements of "Standards of University Association for Professional Radio Education"; these standards required that one-fifth to one-fourth of the total credit hours towards a Eschelor's degree should be in specific radio courses.

The figures reported by the Committee concerning the departments offering these course reconfirmed that Speech Departments were offering the bulk of the work (Table 1.13). Over two-thirds of the institutions studied (51 in 115) placed their radio offerings in the Speech Departments; the second department to be assigned this responsibility was the English Department.

More evidence of the concern of educators over this general state of disorganisation and lack of grains and general terminology is apparent in the programs of the various mediage of educators in seminars, instinates, and conferences held during this period. One such conference was the Stephens College Conference on College Radio held in Columbia, Missouri in 1946. The papers read at that conference dealt almost completely with the content of courses, with the curriculum organisation, and with the content of programs being broadcast. Some of the titles of papers read at that conference were as follows:

⁷ Ibid.

Samuel Across and Kerneth Christiansen (ed.), Problems in College India, (Columbia, Missouri: Stephens College, 1948).

MU-SER OF INSTITUTIONS AND RADIO COUNSES OFFERED,
AS REPORTED IN 1948, LEADING TO DEGREES.

	Number of Institutions	Number of Courses
	36 24 11 9 9 5 3 2 2 1 1 1	2 1 3 4 6 5 7 9 10 13 14 11 12 15 17 19 20 25 28
	1	28 29
Totals	115	250

Note: The 250 courses represented credit values ranging from one-fourth quarter-hour credit to one somester hour credit.

Annies, les eil-

TABLE 1.13
DEPARE-TENES OFFERING RADIO COURSES IN 115 INSTITUTIONS IN 1948

Departments	Hurber of Courses	
Speech	81.	
English	21	
Radio	10	
Journalism	14	
Others	9	
Total.	115	

Milliam, log. oil.

- 1. "The Radio Curriculus A question of Content, not Content."
- 2. "The Radio Curriculus: Clearing Away Confusion."
- 3. "New Operating Procedures and Viewpoints Needed in Radio's Carriewlam."

The Speech Association of America's Committee on Radio reported in 1948 that institutions were following at least one of three patterns in their curricular offerings:

- They were providing activities centered about the training of individuals who expected to enter the radio broadcasting profession,
- They were attempting to faster an uniorstanding of the social, political, economic, cultural, and international significance of radio, or
 - 3. They were providing courses designed to train teachers in classroom uses of radio both at the secondary and college level. **

Today, there is a considerable amount of curricular interest and activity in broadcasting on both the graduate and undergraduate levels. A survey of colleges and universities offering courses in radio and television in 1955-57 reveals that 515 schools offered some kind of course work. Eighty-seven of these schools offered sufficient work in these areas to grant degrees. Ten of the eighty-seven provided for work leading to the doctoral degree (see Table 1.1h).

Williams, log. cit.

^{**}Porcet L. When, "Colleges and Universities Offering Degrees in Radio and Televisions An Analysis," Quarterly Journal of Broadcasting, I (Susser, 1957), pp. 278-283.

Herold F. Hiven, "Colleges and Universities Offering Course Work in Redio-Television, 1956-57," <u>Quarterly Ameral of Broadcasting</u>, (Ninter, 1957), pp. 97-117. This study also attempts to classify the courses or analyse the content of the courses.

TABLE 1.14

INSTITUTIONS OFFERING RADIO-TELEVISION COURSE WORK
LEADING TO DESIRES IN 1956-57

Degree Work	Rumber of Institutions
Doctoral	10 (10) ^b
Paster's	38 (48)
Backelog* a	39 (87)
Total	87

Forust L. When, "Colleges and Universities Offering Degrees in Radio and Televisiens An Analysis," <u>Journal of Broadcasting</u>, I (Susser, 1957), p. 278.

The first set of figures in each case represents the number of institutions in which this is the terminal degree. The figures in parenther sis provide a cumulative total and an indication of those institutions which offer all levels of degrees up to and including the degree noted on the indicated line.

Television as an activity and as an area of study is new to college and university companes; radio is comparatively new. "One of the first courses known to be offered in radio was at Kansas State College, "anhattan, in 1931; no major concentration in the area developed at any institution before World War II."

As her been stated earlier, the responsibility for training in redic broadcasting was placed in most institutions of higher education within the framework of the speech departments. When television emerged, instruction in television techniques was added to the broadcasting emuticula in those departments. At first there seemed to be two distinct tendencies regarding the curricular development of television. One was to offer separate occurses in television; the other method was to add the study of television to the existing courses in radio. Many institutions, today, offer both types of programs: (1) the parallel but separate courses, and (2) the hyphenated radio-television courses. Some college estations suggest separate sources with such designations as "Television Directing" and "Fundamentals of Radio Broadcasting's still others suggest that the content deals with both radio and television as in the case of "Radio and Television in Education," "Foundations of Broadcasting," and "Broadcasting Regulations."

than reports that twenty-eight schools have now separated their source work in radio-television from speech; but individual institutions differ somewhat in the names they give to these now departments.

[&]quot;hban, 100. 011.

WINE.

At Michigan State University, for example, course work in radio and television is placed in the Department of Television, Radio, and Film, which is in the College of Commiscation Arts. When notes that seventeen schools use the title, "Emaio-Television"; three use "Commiscation Department"; other titles are "Radio-TV Arts," "Radio-TV Excadosating," "Emaio-TV and Motion Pistures," and "Telecommiscations." There is, then, a lank of conformity in labelling departments and courses; there is also, no doubt, a lack of conformity in the underlying philosophies of the vertees schools. While some efforts have been made to reach general agreement smang broadosating educators as to the general goals in broad commits, there have been, understandably, no efforts to make each school a cambon copy of the others.

It may be consisted, then, that the study of radio and television has been smeaded academic recognition in recent years. The marker of schools effecting such work, the provalence of degree work being offered, and the establishment of separate departments in at least twenty-eight schools indicate that educators in general and administrators in particular approve of these areas for academic study.

The Speech Association of America now lists "Radio and Television" as one of its major areas in the general field of speech. "In the years since the end of World War II, the area of wedlo and television has won the place as a subject of specialized graduate study. . . ." Oraduate studies are now listed under their own area heading, radio and television, in Speech Concerning, revises of graduate work.

dente in Speech, Cherterly Journal of Speech, XLI (October, 1955), p. 261.

With the mivent of television, collegiste curricular offerings were expanded; expanded expanded expanded expanded expanded products were established in some schools; graduate study in these areas was given recognition. During this period of educations curricular development, there was growth in another way. The content of these courses was gradually undergoing an evolution.

hand compares the development of a curriculum in broadcasting to the development of the journalism curriculum. At first, courses introduced the student into the "mysteries of the trade"; courses in broadconting introduced the student to the skills of writing, performing, and producing for radio. As the industry emerged, educators began to give a broader view of broadcasting. Again following journalism's pattern of greath, courses in broadcasting began to include the history, economics. and states of the industry. Thus, the history of the broadcasting empicula entered its second phase. During this second period of ourricular history, courses were designed to give the student a philosophy and a set of standards about broadcasting. There were courses in station memagement, program development, business and advertising, and audience messerumes. Such courses were not skills courses; they dealt with broadcasting in its more broad social, economic, and artistic contexts. Although the exphanic remains on the use of broadcasting (teaching the skills and utilising the program), there seems to be an increased awareness by educators of their responsibility in another direction, that of providing "professional chiestics for those the are going to enter the broadcacking industry."

^{*}East, op. 611., p. 412.

The broadcaster wields an instrument which can influence the thinking and setting of human beings; he is responsible to the various publics
for the content of the broadcast message. The responsibility for training
the broadcaster belongs to the university which is prepared to emplore
the chical and sociological significance of broadcasting, and to foster
the development of resconed insight. Head states the case for the uniwantities effectively.

The importance of this responsibility lies in the fact that in the foresecoble future corrected broadcasting will continue to seach westly more people with vestly more hours of progressing.

. . If colleges and universities can directly influence the progressing of corrected stations by educating the people who make the program decisions so that they will make those decisions whell and conscientiously in terms of social needs, education will have accomplished a very great service to secrety.

So today, there seems to be evolving a major philosophy about broadcasting in education. This curricular development is entering a third
stage, described by Ecad as one of "rescerch and evaluation." This
evolution sugars something more than a mere addition of new courses to
the curriculum.

Paul Dentachman mays this is an age of "communication revolution" brought about by changing wethods of communication. Obviously the television medium is one oscapil factors but the expension of the magnatus medium, the development of the book as a mass medium, the development of communications medium (such as the various I.B.M. machines) is going on all over the world. Heturelly the universities reflect this

en Ibid.

Communications, January of Communications, VIII (Surmer, 1958), p. 77.

changing attitude. Today, there is considerable research being conducted in the field of communications, which obviously includes radio and television. In turn, this research and its findings condition and shape the mature of the content of the courses that are offered.

Daving the first years of radio, it was not the departments and schools of speech that murtured the rescarch and graduate study programs; it was the schools and departments of economics, law, and science which scoepted research in the area of broadcasting. Apparently the first graduate thesis pertaining to broadcasting was written in 1923, at New York City Colleges this thesis examined the growth and development of the radio industry. Apparently the first doctoral dissertation was a study of the economics of the industry, written at the University of Wisconsin, in 1925.

The first recorded Master's study which exphasized broadcasting and which was accepted in speech was written at the University of Southern California in 1929; this study explored the relation of certain types of voices to successful radio broadcasting. "This was not a produce to a successful radio broadcasting. "This was not a produce to a study again Edgar Willis, who made a study of the research performed by Speach Departments and Schools up to and including 1955."

Examination of the graduate work performed in the areas of radio and television provides several facts relevant to this study. Apparently there were forty-six studies in these areas performed before 1935.

Analysis of these forty-six reveals that five were doctoral studies;

Whigh Willis, log. cit.

only mine were written before 1931; the major interest areas were williestion and the generally accepted speech areas (see Tables 1.15 and 1.16).

Two conclusions may be drawn from an analysis of these studies:

(1) becodessing subjects invited graduate research as early as 1923

and an increasing amount of graduate inquiry has been carried on in

subsequent years, and (2) although subjects treated under the heading of

"broadcasting" were set in general speech or classroom utilization frameworks, many other curricular areas were also interested in broadcasting.

Some indication of the interest in research may be gained by analysing one category of the titles of graduate studies listed in the <u>Journal of Prophersting</u>. This issue listed 1275 studies in subject categories. This was the first attempt ever made to collect such information in one listing. The largest category was "Educations Classroom Use of Radio." Assuming that this category is representative of the trends in the whole field (see Table 1.17), it will be observed that there was a small but stondy flow of studies between 1931 and 1955; the years 1939 and 1940 were apparently peak years for study in this one area of broadcasting; classroom utilization and the general speech areas were the most popular for research.

Willis reported that by 1935 only five institutions had reported any graduate work in their schools or departments of speech; the current examination revealed that mineteen colleges and universities were

^{***}Oraduate Theses and Dissertations on Broadcasting, " Journal of Broadcasting, II (Wister, 1957-58), pp. 56-90.

TM4

SUBJECTS TREATED IN GRADUATE STUDIES WRITTEN DEFORE 1935⁴
(See also Table 1.16)

Year	Total Rusber	Murber	Subject
1923	1	1	History
1925	2	1	Sconomics of industry Social aspects
1927	5	1	Economics Utilization
1929	3	1 1	Advertising Farm sudience Voice in redic
1930	1	1	Cral style in delivery
1931	10	11111	Elementary classroom utilisation Public speaking Agriculture Federal regulation Oral styles International aspects
1932	9	1 1 2 2 1	Economics International aspects Radio drama analysis Writing, producing drama Elementary classroom utilisation Pusic appreciation Advertising
1933	8	1 2 1 1 1 1	Advertising Elementary classroom utilisation Delivery and diction High school sound system adapted for radio High school students! listening Survey of college radio Husic
19314	10	2 2 1 1 1 1 1 1 1 1	Advertising Children's programs International aspects Comparison with newspaper effectiveness History Federal regulation Vocabularies of Roover and Roosevelt College classroom utilization

Forty-six studies were noted as the total graduate studies performed before 1935. Speech Monographs and Journal of Broadcasting, II (Winter, 1957-58), pp. 56-90 were the sources used.

TAME 1.15

SUBJECT MATTER RANGE OF PRITY-SIX GRADUATE STUDIES WRITTEN BEFORE 1935 (See also Table 1.14)

	1
udience resolions	2
istory	2
Padarel regulations	2
grimiture	1
dvertising	5
Seconord.co	2
Social espects	1
international aspects	3
arver of convercial radio in one cit	y 1
turvey of college redic	1
College utilisation Secondary school utilisation Eleventary school utilisation Geography lessons Fusio appreciation General utilisation	14 2 1 1 3 6
General speech screes Voice, diction, vocabulary Public address Drama Use of Scund systems	11 5 3 2 1
lotal.	46

Table 1.17
THEND OF GRADUATE STUDIES IN CLASSROOM UTILIZATION[®]

Tenr	liusber	Tear	limbor	Tear	Murber
1927	1	1939	12	1943	1
1931	5	1940	9	1949	5
1932	1	1914	6	1950	3
1933	3	1942	5	1951	2
1.934	3	1913	5	1752	1
1935	3	1914	2	1953	3
1936	3	1945	3	1954	1
1937	6	1945	4	1955	1
1938	3	1947	2		

[&]quot;Graduate Theses and Dissertations on Broadcasting," op. cit.

responsible for those early graduate studies. The University of Misconsin sponsored ten of the forty-min; Columbia University, five, and the State University of Iosa, four. In 1940, Missack reported that there were only thirteen studies related to broadcasting in the 1136 theses listed by Knower in Spooch Marketta. In fact, it was not would 1940 that Speech Monomorphs even listed the radio research performed in speech schools.

Encuer's "Index" in Speak Appearants listed, in 1946, 126 Mester's these and thirteen dissertations for 1953, there were listed 474 theses and 48 dissertations in radio and television. This would indicate that speak departments did a considerable arount of research after 1948 in the field of broadcasting.

Secretaring the subject-matter range of these studies performed in speech, Willis found in the Mester's studies that almost half (48.34%) were conserved with progress writing and production; one-fourth pertained to educational broadcasting; whereas only five percent of the dissertations were conserved with progress writing and production, but thirty percent were interested in broadcasting and education. Almost half of the dissertations studied sudience analysis.

Ton. L. Rebesk, "Trends in Research in Redio," <u>Operarly Journal of Beach</u>, XIVI, (April, 1940), p. 286.

PAIMA.

Tamilie, "Research in Radio and Television by Graduate Students in Speech," on . oil ., p. 262.

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TABLE 1.18

SUBJECT MATTER RANGE OF GRANUATE STUDIES, LISTED IN ENGLISH IN STREET, 1953, PREFORMED IN STREET.

Subject setter	Percent by 4.4.	Fercent by Fh.D.
Program writing, production	48.34	5.0
Educational by adoasting	25.0	30.0
Audience analysis	0.0	45.0
Broadensking and Society	10.83	15.0

Willie, "Research in Radio and Talevision by Graduate Students in Speech," op. cil., p. 262.

THE 1.19

THE BANK AND PERCENTAGE OF TOTAL SPEECH GRAIDATE RESEARCH FOR SACH SIBLECT MATTER CATRODET FOR TEARS 1953-1958*

Category	1953 Percent	Park	195h Percent	Ĭ	Percent	Ž	Percent	Rensk	1959 Percent	Secrit
Punda tentals of Speech	٥		•	W	ដ	-3	ង	-18	OT.	N
Public Address	8	N	Ħ	ત	12	4	#	M	z	~
Interpretation	H	(- -	N	~	9	~	~	<u></u>	~	1
Badio-Talevision	•	•	N	9	•	જ	σ.	w	W	\$
Tiester	Ä	H	สี	N	ສ	~	26	8	5 8	~
Speech-Hearing Disorders	2	m	ជ	~	ສ	m	ສ	3	20	~
Speech Echestica	-	W	ជ	,ill	•	W	~	9	ជ	.4

Information taken from Spaces Sonographs each year-

However, the lack of graduate research in speech does not indicate a lack of interest. In 1937 Princeton University established an Office of Radio Research; and Chio State University set a five year study committee to evaluate the broadcasts that were going out to schools.

The preceding review of the role of graduate work performed in the areas of radio and television presents several obvious conclusions.

First, in spite of the fact that Speech Schools and Departments were given the responsibility of offering the course work in these areas, they were not the first to develop programs of graduate study. However, in second years, Speech Schools and Departments have produced a considerable around of graduate research.

Secondly, elthough Speech Schools and Departments do produce a considerable amount of research, many other schools and departments perform research in the fields of redic and television.

Inited, because radio and television intersect other areas of study in the university curriculum and because the volume of research is increasing, a philosophy about broadcasting seems to be evolving that makes the subject of broadcasting take on a new and more broad concept.

Another factor in this changed concept is the "communication revolution."

As has been stated, the universities reflect this changing attitude and their graduate programs are perhaps the first to indicate such a change.

PATHAA.

Returnly, each school or department in the university approaches a study of communication from its own orientation. Even so, those interested in communication have a "community of parentage." fore estivity seems to stem from journalism than any other area. Today there are seven universities offering the doctoral program in mass communications. All are related somehow to journalism. "In most cases there is little relationship to speech, although increasingly speech graduate students are participating through course work." Admittedly, some of these programs are journalistic in a professional sense but there is a "concern short and a study of all the mass media as social institutions."

Thus, it would seem that the direction of curricular offerings and graduate research in the areas of radio and television are pointed towards the broad company of mess communication and its affects upon society. So it may be said that the development of the curricular program in broad-casting has reached its third stage, as described or predicted by Head. It is now in a period of research and evaluation.

Before electing this review of the development of a curricular interest in broadcasting by institutions of higher education, there are two subjects yet to be discussed: (1) some graduate studies in broadcasting at the high-school level, and (2) the work of the Association for Professional Broadcasting Education, and the work of the subsequent organization, the Association for Professional Broadcasting.

[&]quot;Spentenham, log. cit.

Thad.

TMd.

 $C_{i}(\mathcal{O})$

essting revealed only twenty-five studies were concerned with broadcasting as a factor in the high-school curriculum (see Table 1.20). Five proposed courses of study for the secondary level; the latest of these studies was performed in 1947. Four more proposed courses for specific localities or high schools, or they proposed adaptations of radio work for speech courses. Another large category, five, surveyed the radio-television activities in American high schools; three more surveyed activities in specific localities. After an examination of these studies pertaining to the secondary school, several assumptions may be made.

The very small number of such studies would indicate a lack of interest by research areas in broadcasting as a curricular item for high subcols.

The five which surveyed high school radio activities plus the three which surveyed activities in certain localities total almost one-fourth of all the studies performed; this wight be interpreted to mean that graduate-schools believe there is sufficient activity to merit investigation.

The servey of titles as shown in Table 1.20 is not very impressive and wast lead to the combination that broadcasting as a subject for condense study on the secondary level has not yet goined the acceptance that such study has in higher education.

Since the early fortice educators were conserned about the profermional quality of courses of instruction being offered in radio and television in institutions of higher education. Likewise, professional

Table 1.20

AMALYSIS OF GRAINATE STUDIES PERTAINING TO BROADCASTING IN THE SECURIARY SCHOOL CURRICULU.

Year	Institution	Sub-Arab
	The second secon	Subject
1939 1941 1941 1948 1947	Ioun State College University of Arisona New York University University of Maine Chio State University	Proposed source of study or plan for integrating into ourriculus
1935 1939 1949 1952	Louisiana State University University of Ican University of Washington University of Washington	Proposed course of study for specific locality or units within another course
1949	College of Pacific	Offered review of equipment and brief outline for study of redic production
1954	University of Southern California	Operations mennal for administer- ing radio-television program in high school
1961 1962 1951 1951	College of Pacific Lossians State University Fichigan State College Kent State University Columbia University	Surveyed radio-television activi- ties in specific high school locality
1942 1948 1950	Veyne University University of Michigan Tesse Christian University	Surveyed trends and activities in the United States
1942 1954	University of Michigan University of Southern California	Studied values and methods of radio training
1939	Hayme Duivementy	Radio es a sorrelative factor in ourriquias
1948	Hear York University	Use of sound equipment for radio instruction
1958	University of Misconsin	Influence of mass media research on high school Language Arts programs
1955	Montana State University	Analysis of problems in teaching in radio

^{*}Pour of the shove studies were doctorel dissertations.

As the broadcasting industry expended, it was becoming increasingly some of its own status in society; broadcasters were beginning to realise that theirs was a business enterprise vested with social and sthical sesponsibilities. Following this realization came the seareness that their fature was dependent upon a steady flow into the industry of qualified personnel. "The outch-es-can recruitment of the pioneer days"

These changing concepts, by professionals and educators about their business of broadcasting and teaching broadcasting, resulted in a meeting in the fall of 1947. This was a meeting of educators and broadcasters salled for the expressed purpose "to explore the possibilities of formal accreditation of degree and curricula broadcasting."

By the fall of 1948, after emmining 400 curricular offerings, the committee of broadcasters and educators decided that ten of the schools, whose curricular wave emmined, should be cited for their "progress in the development of broadcasting curricula."

These ten schools become charter members of the University Association for Professional Radio Education (UAPRE). By 1955, their member had increased to mineteen.

Policed and Markin, on cit., p. in.

^{**} Tad. p. 11.

University of Mebraska, Northwestern University, University of Southern California, Syramse University, Typle University, University of Tense, Inles University, and the Tense School of Mines (now Tense Western University).

espad.

It was soon learned that the association could not function as an accrediting organization. The reason for this is explained by head and dertins

The proliferation of accreditation by departments had become an academic sore spot, with institutions threatened with loss of control over their own operations. The issue came to a head . . . (about the time of the forming of UAPRE), and the National Commission on Accreditation announced that thereafter no new accrediting organisation would be recognized by colleges and universities unless first approved by the Gormission. Such approval ecold not be obtained for UAPRE. **

It was then evident that accomplishing the desired objective (to reise standards towards professionalism) through accorditation was not possible. Obviously, the organization had no teeth. Seeing the handwriting on the well, a few of the members of UAPRE and some professional broadcasters began to formulate a new organization on a different provise.

The metivation behind the new organization was primarily the same as that which prompted the former one, namely to raise standards of courses, teaching, and familities towards a more professional quality. The major differences in the two organizations was to be in the means of accomplishing the desired objective.

It was decided that any school which offered courses in radio and television might join. Because it was recognised that there would be differences in quality of work done in those schools, it was hoped that

Stiesd and Hartin, on oit., p. 12.

They name the members of the countities responsible for the planning of APRE.

the leading schools might exert their influence upon other schools; thus standards would be improved.

A new organization was formulated; the National Association of Broadcasters (now the NAB or National Association of Broadcasters) became a willing member and agreed to help finance the organization. This willingness to become affiliated with such an organization was the result of commercial broadcasters recognizing their need for a steady flow of suitably trained personnel; this affiliation offered a means whereby they might have a part in the shaping of the twaining of their future personnel.

On May 23, 1955, members of WAPRE voted to dissolve their present organization and to form a new joint industry-education organization. The members them accepted the plans for the new organization, which was to be known as the Association for Professional Broadcesting Education (AFRE).

As of March 1958, AFRE numbered forty-three active members and seven associate members. Active members are those institutions which offer degree work in radio and televisions associate members are those schools which offer only courses not constituting a major.

The APBE has established a publication, the <u>journal of Prosicuation</u>, which is issued quarterly. APBE provides many services for its institutional members, such as maintaining an exchange of teaching meterials, sponsoring institutes and clinics for students, faculty, and station personnel, and providing an analysis service for evaluating curricula.

At present, the AFEE is planning an exployment exchange service on a metional basis.

AFBE maintains an Executive Secretary in a permanent office, in ecoperation with MAS (formerly the MARTS), in Washington, D. C.; other officers are elected from the membership.

Time far, in its short history, APHS has consentrated on the end product for which radio and television curricula privarily exist, namely the testining of personnel for the profession of broadcasting. So it may be said that the work of APHS is basically oriented towards commercial breadcasting.

Thus it is evident that the APBS warks another wilestone in the development of curricular interest in broadcasting by higher education. Its perticular function has been to bring to bear certain influences which seem to be causing colleges and universities to change their comments about broadcasting curricula. The change is to a broader base so as to include the ethical and social significance of the media of radio and television, and to improve course content towards a more professional quality.

Title exemination of the background of the curricular interest in broadcasting as a course of instruction in institutions of higher education has been an attempt to trace its development. To do that, the appearance of courses and the subsequent increase in the number of

^{**}Gutervier with Professor Les A. Fartin, forer president of UAPRE, July 30, 1958.

courses in the curricula of colleges and universities was first determined.

Apparently courses of instruction were included in college. offerings early in the 1930's. It was established that in 1933, mixtoen schools made such offerings.

The number of schools offering course work in radio and television increased shouly but steadily; likewise the number of courses increased. But it is apparent that a few schools were responsible for the wajority of the courses offered; a great wany schools offered only one or two courses.

By 1955, over 100 schools were offering courses of instruction; eighty-one institutions offered sufficient work for the doctoral degree in radio and/or television.

Although a member of departments and schools offered these courses, the responsibility for the bulk of the courses was lodged with the speech faculties as early as 1935. It has remained there until the present time. They have been responsible for over two-thirds of the courses offered.

A new philosophy or besis concept concerning the content of courses seems to be evolving out of the current "communication revolution."
This new attitude seems to be resulting in a move to establish separate departments for these courses. To date, twenty-wight schools have satablished such departments; so far there seems to be no agreement as to titles for these new departments.

This move to separate departments and the evolution of a new concept about broadcasting as a medium of mass communication was the logical sequence in the development of courses. Even though the early courses in sedie were lodged in speech departments, and their numbers increased steadily, educators were also to determine the objectives and content of these sources.

The content of these courses seemed to evolve through three stages.

First, the early courses presented only the "mysteries of the trade,"

the skills in writing, performing, and producing. Then, as the result

of the industry's growth and education's concern ever content, the second

stage was entered. Educators added "content" to the courses; courses

imminded the history, the economics, and the ethics of broadcasting.

With the advent of television and F4 broadcasting, the curriculum develop
ment began to enter its third and present phase, research and evaluation.

A review of graduate studies notted several conclusions. It was established that although speech departments very early assumed the burden of the environs for broadcasting, they did not develop the early graduate research. However, since 1930, there has been a steady flow of research in the fields of radio and television. Henry departments and schools have been responsible for this research. But since about 1940, the speech schools and departments have appropriate to two-thirds of the stadios.

Pertinent to this study were twenty-five graduate studies dating from 1933 which concerned radio in the high school extriculum; there were no significant trends noted.

The University Association of Professional Broadcasters, and the later ergmination, the Association for Professional Broadcasting Education, have given broadcasting education in the universities and colleges a definite direction toward professionalism. Through their efforts to improve standards, to give more content to the courses efforts, and through their relations with professional broadcasters, this is in the process of being soldered.

Surrery

There are several possible results when the terms "education" and "breadcasting" are combined; the history of two of these combinations has been essential in this chapter. First to be treated was the history of breadcasting activities which took place under the sponsorship of educational institutions. The other combination considered in this chapter has been the development of education for breadcasting, or the history of breadcasting curriculum.

periods. The first, dating from about 1920 to about the middle of the 1930's, was a period of tremendous activity; this activity centered around the struggle to get on the sir and stay on the sir. The second phase, characterized by relative inactivity, existed in a period roughly bordered by 1935 and 1915; radio stations council by adventional institutions continued to go off the sir during these years. The third period began with the end of World War II. The evergence of F4 radio and televisions and the FCC's recervation of educational charmels worked the

beginning of this period. It was noted in this latter period that educators accepted the new responsibilities and opportunities with a different attitude, which was based on experience. Their method was more except, more directed toward carefully established goals.

The early history of educational community of broadcasting facilities is filled with data concerning the great number of colleges and universities that attempted to obtain broadcast licenses and to operate radio stations. These early years were marked by two factors: (1) the lack of broadcasting experience on the part of educators, and (2) the threatened domination by communial broadcasters.

Various national groups and committees operated on behalf of educational broadcasters during these three developmental stages. These national organizations performed significant services in the struggle to maintain broadcasting facilities for educational purposes.

Of particular value was the work of the National Committee for Education by Radio. Other groups which played a part in the development of broadcasting by higher education were the N.S.A., the Office of Education, and the FCC's Federal Radio Education Committee.

Educational broadcasting stations multiplied sepidly soon after the beginning of broadcasting. By 1937, they reached a peak of over 200. But the problems of management and programming become too great a burdent the struggle to stay on the sir was too much; the mortality rate emong the stations was great. By 1937, the trend was obvious. By 1947, less than thirty stations were operating.

There is apparently considerable agreement among investigators as to the came of this sharp decline in station operation. Host of the studies indicate a lack of funds and facilities, a lack of skill in broadcasting and in utilization, as well as a general lack of interest.

The second combination of "education" and "broadcasting," education
for broadcasting, also may be viewed historically as compying three
relatively distinct periods. This study supports Sidney Head's statement
that broadcasting education has progressed through three stages. The
first courses offered were of a practical nature; the exphasis was placed
on the skills involved in writing, performing and producing. These courses
became the offerings of journalism, music, English, and speech departments.

Quite naturally, radio was thought to be a medium which depended upon voice only and thus the industry nasded those people who had voice training. Consequently, most of the instruction eventually appeared within the framework of the speech departments. By 1938, the majority of schools had placed the responsibility for radio training upon the speech departments.

the first stage, emphasizing skills, began around 1933 and came to a close in the middle thirties. Although this exphasis was retained as broadesting education entered its second phase, the curricular scope was broadested; studies of the surface characteristics of the medium were reinforced with more intellectual offerings. The political, economic, and social expects of broadcasting were considered to be important corollaries to broadesting skills. This period came to a close with the end of World War II.

ocient, op. mt., p. 412.

The third stage, one in which research and evaluation were given increasing consideration, seems to be a natural outgrowth of the preceding phase in which the educator became concerned with more substantial ecurse content.

Proof that education for broadcasting has entered this third phase is evidenced by the increasing number of schools offering course work leading to graduate degrees. During the school year of 1955-56, 515 institutions of higher education reported that they were offering some kind of course work in broadcasting. Righty-seven schools offered courses of study which led to a major. Ten of the eighty-seven schools provided opportunities for doctoral research.

Farthers to this study were twenty-five Master's theses dating from 1933 which concerned radio and the secondary level of education. Seven doctoral dissertations dating from 1939 were also noted. However, there was no significant trend observed in their subject matter.

By 1747, broadcasting was a significant part of American life.

Educators and professional broadcasters were apparently sware of a need for a joint organisation which could provide an opportunity for both the educator and the professional broadcaster to work towards more common objectives with a more uniform body of techniques and which would provide a channel of communication for understanding each other's basic philosophy.

The UAPRE was formed in 1947 as a first step toward answering this need; it was succeeded in 1955 by the AFRE. It is too early to predict

the excess of the new organization; however, its very existence is a provising indication.

Perhaps it is a mistake to count to paper judgments concerning contemporary happenings; however, it would seem that the third stuge, both of broadcasting by education and education for broadcasting, is on much more solid ground than the preceding stages. Educators, facing a new opportunity and a new challenge, seem to be more contious as they plan for the future. The prevailing concept of the mass media is much more broads the curricula and graduate research reflect this serious intent. More schools are offering course work in broadcasting, but even more significant is the trend toward the formation of separate departments for tradning in mass media communication. The colleges and universities are now concerned with training minds as well as hands.

Institutions of higher learning are recognizing the potential of radio and television for society. They are accepting the responsibility. Education for broadcasting as well as by broadcasting seems to be following a more logical and soundly academic pattern.

had not worked the promised advactes.

une over commercial stations:

PAGES MISSING

PAGES MISSING

LE, Atkinson cited the problem that faced educators in the few

PLEASE SEE:

POCKET IN

BACK OF VOL.

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LE, Atkinson cited the problem became a major factor in the decline of the early

nelysis of the lack of success of these early programs that did of continue invariably would show a lack of definite organizations proceeds as in the schools was left to the initiative of one or two individuals and when the early enthusiasm were off, the programs were allowed to die. A successful broadcasting policy requires organizations definite responsibility placed upon some department, consistent, or individual; and a spirit of active cooperation among administrators, teachers, students, and the public.

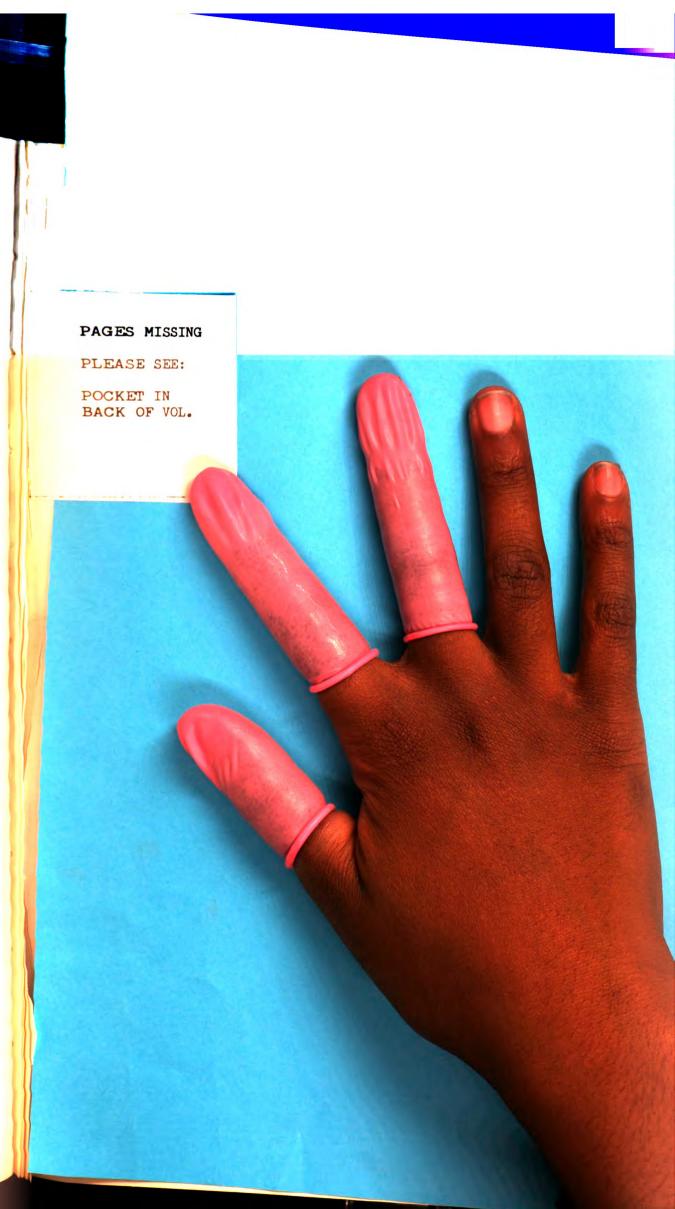
From his studies, Atkinson, one of the few researchers who ventured to make judgments in this area as early as 1938, reached several conclusions, one of which is pertinent to this study. He stated that if radio mere to serve education properly and adequately, city school systems would have to assume leadership in educational broadcasting.

Jest what Atkinson meant by educational broadcasting is not indicated, but it is essumed be included the whole range of activities: station operation, in-school use of the broadcast program, the public relations program, and perhaps a curriculum offering (which prepared the student to

estimon, on othe

^{** 1}bid., pp. 9-10.

Mentilian Company, 1950), p. 953. Honroe superrises all Atkinson's Percerch. Atkinson, in his own conclusions, recommends the use of students in educational broadcasting because of the notivation and learning possibilities. Education by Nadio, op. cit., p. 122.



evaluate and appreciate his general listening, and special training to seeist in some of the broadcast duties).

Much of the necessary inspiration for this early pioneering came from the Office of Education and several state departments of instructions

Only four years after the first commercial breakest, Fr. John J. Tigert, then Commissioner of Education, evidenced keen and early interest in the possibilities of radio in education. He wrote 'The school, the library, and the newspaper are usually ranked as the three great educational agencies. The radio procises to take its place as the fourth, and it appears to be fast fulfilling that procise. . . .*

All this interest and activity in station operation, programming for im-school use and for public relations involved high school students and aroused their interest. After reviewing Frost's report (of 202 educationally sensed radio stations), Attinson's conclusions regarding broadens activities (in American educational institutions), and other studies on this subject, Levenson and Stasheff susceries this activity from 1922 to 1926 as follows: "throughout the land evidences of real accomplishment were apparent." The story of terminates public schools which satually attempted to operate stations has already been reviewed in this study. Thus it can be seen that high school students were learning some of the skills of breadcastings but it must be admitted that the method was accompany "trial and error."

Before describing some of those early and more formal attempts to teach the skills of broadcasting, the work and the influence of the

Stavenson and Stasheff, op. nit., p. 38.

^{201614.}, pp. 38-40.

Office of Education and several state departments of instruction should be examined.

educations in 1931 a specialist was appointed to the office and given the essignment to study and promote education by radio. The office of Education Radio Specialist cooperated with commercial and educational stations; it experimented with production techniques; it helped to discover what was needed by educational institutions in terms of personnel and organization. It developed a script exchange service; by 1939 more than twelve hundred scripts were available to schools. In addition, it issued four important peoplets which were instructional side to those groups, civic or educational, interested in radio production; they were Radio Manual. Radio Mossawa. Essebook of Sound Effects, and Ethlic graphs.

All through the radio era (1920-1948), the Office of Education continued its important function of siding the schools in their radio education activities. Since the advant of television and the resulting agencies that were established to assist and guide schools involved in educational television (e.g. Educational Television and Radio Center and Joint Council on Educational Television), the Office of Education has not been so active. It does, however, continue to service public schools in a general way.

Public School Systems, CD. cit., p. 27.

Described and Young, on cit., pp. 387-388. See also, Attimeon, on cit., pp. 27-28.

State departments of education were also active in promoting radio's use in education. In 1932-33, twenty-three state departments reported that they were using or were planning to use radio in some ways nine indicated that they were broadcasting regularly. By 1938, there was evident a growing interest in classroom listenings and there was also some evidence that state departments were making plans to assist schools in selecting the progress to be used and the equipment to be purchased for classroom utilization. By the late thirties, fifty-esven states and territories had developed regular policies regarding the use of redio in educations fifteen indicated they had some kind of policys and twenty-two had no policy for the use of radio. Statements of these policies all seemed to have one point in common; they centered around the program which presented the schools in a favorable light (the public relations program). This would suggest that state departments were primarily interested in public relations broadcasting, rather than classroom utilization, or radio as a curricular item.

State departments of instruction today continue to exert a certain amount of influence and leadership in education for and by broadcasting.

Of the 190 educational radio stations (153 FH and 37 AM reported by the Office of Education as of Movember, 1957), forty-five PH stations are smad by public school systems (Table 1.8); none are smad by state boards or departments of instruction; although New York, Visconsin, and

²⁸ Atkinson, Radio in State and Territorial Educational Departments, (Bestons Reador Fublishing Company, 1942), pp. 14-15.

Alcheme have networks of educational stations that serve the public school meeds and other groups as well. These networks are joint efforts apometred by several agencies, primarily state departments and state universities.

The May 1958, JUST <u>Parishest</u> shows thirty-two educational television stations now on the sir. A study of their ownership (Table 1.9) reveals that three are owned by state departments of instructions state legis-latures hold licenses for four stations; ten universities and ten sunicipal ecoporations or foundations (which usually include the public schools as one agency in the corporation) hold licenses; and five boards of education sparate educational television stations.

A study of the community of both radio and television stations indicates that public schools do have plenty of opportunities for broad-contings in many cases they even have a voice in the management of the stations being used.

All this activity with radio and television by schools, universities, state departments of education, and other state and national groups has had its affect upon the secondary schools and their curricular offerings.

In attempting to trees the curricular development in broadcasting, it becomes measurery to emake the available evidence of all broadcasting activity by high mehool students. Nost of that evidence is found in superts of other aspects of radio activity, such as the public-relations programs and station cumerable. Reports of radio and television activity by high school students are also found in studies of the content and objectives of related courses, such as English, speech, and drawatics.

Such evidence dates almost from the beginning of radio's history.

The agricultural Middle West seems to have been the pioneer in broadcasting education; it was apparently in the Middle West that the first high-school-comed-and-operated station was located, and apparently the first formal course of study in broadcasting was offered in the Middle West. Control High School, Casha, Nebraska was "granted a federal linease on February 1h, 1923, to operate on 360 meters (83h ko), with 300 meter power, on "unlimited" time. The call letters assigned were KFC2."

The instructor in "drafting the radio class work" assembled the broadcast transmitter in the building. "Regular class work was offered by the school with the insugaration of the station."

This, apparently, was the first class offered in radio by any high school.

The exphasis in these early courses was primarily on the technical aspects of broadcasting. Technical High School, Omaha, Hebraska became the second school in that town to have its own stations they went on the sir fourteen months after Central High School. At first, the station was used for technical instruction only; but students also broadcast music, debates, and lectures. Four years later the station was deleted but the course was continued. Reports from two sources failed to indicate the course was continued. Reports from two sources failed to indicate

Broadcasting activities in cooperation with local commercial or university stations, dating from 1032, were reported in the schools of

^{**}Proct, 52. 511., p. 299.

ad Reed, on ott. p. 94.

^{*} Trost, op. ult., pp. 372-373. Also, Reed, op. cit., p. 95.

Delath and Minneapolis, Minneapolis Springfield, Missouris Crand Forks,
North Dekotas Aberdeen and Matertoum, South Dakota. This activity was
patherily a weekly broadcast of school news and talent. The Unterterm
students were paredited to broadcast the sports because "it was discovered....(this) tended to increase the atjundance at games." The
Grand Forks students broadcast daily over the University of North Taleta
station.

Another very early evidence of a definite course in radio was the one offered as an elective in Rhodes High School, Cleveland, in 1933; the course explanated voice work. Later another course was added which included work on dramatic sketches, student-written and reported news programs. Subsequent courses, provided opportunities for intensive dramatic production experiences. Values reported to result from this course of study were that it provided greater activation to improve the voice skills and to increase kanaladge. The teachers liked teaching these radio courses because they were more advanced and the students were more entransantic. By 1965, the curriculum had broadened to include voice and diction work, script writing, and general production techniques.

A Federal Writers' Project publication lists a number of those early broadcasting attempts by high schools. For example, the Hearen Light School in New York City broadcast lessons in accounting (already described

[&]quot; need, op. cit., pp. 61-121.

School, Guertaria Journal of Speech, NAV (April, 1939), pp. 279-80.
Also, William Levenson, Torontony Former Regio, (New York: Farrer and Risshart, Inc., 1945), pp. 235-250.

es the first known use of radio lessons in the claseroom). Students built the station; then they broadcast noncurricular student programs; the faculty broadcast the lessons.

Students in a Vocational School in Buffalo, New York, built a complete radio station in 1922; then they broadcast programs by the students of the city's schools.

Similar activities are cited between 1922 and 1927 in Los Angeles and Oskland, Californias Cook Jourdy, Illinoiss Cleveland, Onios Atlanta, Georgias Upton, Massachusettes and Hartford, Connecticut. The programs described were apparently of two kinds: lessons presented by teachers and student programs of school name and music. Andienoes as large as twenty-five thousand were reported.

In 1939, Carroll Atkinson published the results of a study which attempted "to plature radio educational development in American public schools by recording the most important historical facts and by describing current policies of 125 (or 10.3 percent) of American public school systems, representing population centers over eight thousand.

Development of Resto Woostion Policies in American Public School Systems on estimate p. 10, and biling and Tours, ap. air.

Clevenson and Stanieff, on cit.

^{427724.}

[&]quot;Atkinson, on oil, p. 1. he included in his study two towns with population under sight thousand; thirty-two were between eight thousand and twenty-five torusend; seventeen were between twenty-five and fifty thousand; flity cities represented populations between one hundred thousand and one million; and five were over one million in population.

An examination of these individual reports prepared by the superintendents of the systems suggests a number of observations which may be relevant to this study:

- 1. Placement of responsibility for planning and memoring the radio programs.—Only three schools mentioned such responsibility. These indicated that it had been placed upon an agency that had other functions which were a primary duty, such as a "Curriculum constitute on research study." Some superintendents admitted that they needed such a person or group to accept this responsibility.
- 2. Placement of responsibility for actual production,—This responsibility apparently was assigned to a variety of persons. The music department or director and the English teacher were given this assignment more often than any other teachers, although speech, journalism, social studies teachers, and one vocational advisor were reported as directors of their school's radio programs. Sometimes the responsibility merely rotated through various departments; sometimes it rotated between the music and dramatics classes. As many as twenty-five reported they had no set policy; teachers and students acted independently.
- 3. Remits of student broadcast activity --- Only two reports included somewhat about results. These superintendents consisted that writing talent was discovered and good speech resulted.
- 4. Chientives of school broadcasting activity.—Although a much rindicated they had a "definite policy" regarding radio education, very few spelled out their objectives for including such activity in their school programs. Those that did were referring to the student activity

. .

rather than to the use of the radio program in the classroom. Those objectives that were stated were varied. They ranged from (a) giving many students (or giving music and dramatic students) a chance to perform, to (b) the chance to study anatour broadcasting, and (c) a chance to develop the student's character and personality.

- 5. Classes offered. -The word "class" was used by the superintendents in these reports only thirteen times. Credit for any work done was indicated only twice. This was "special English credit for outstanding work" in one cases in the other, one-fourth credit was granted. The titles of these courses, when they were included in the reports, were weried and suggested somewhat the content. For example, "Radio Speech Class" and "Senior English Class" clearly indicate the exphasis of the classs medio procedures were perhaps a mesms or a method for achieving the desired speech or English results. The objectives, when indicated, also segmented the content of the courses. Usually the classes in radio were preparing programs for broadcast ever a local station; the programs were either for public relations or for displaying student talent. House, a few schools apparently did offer courses of study which included radio theory and techniques, emmanding and acting, and writing "their own scripte." The lack of instructional materials for classes was manticased only twice. These indicated that their teachers gathered that could be found and a syllabus was prepared for their students.
- 6. India olube, --- Compared with the thirteen times the word "class" appeared, it is interesting to note that clubs were mentioned fourteen times. These clubs were given a variety of names, such as Radio Guild,

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Radio Club, Radio Committee, Radio Workshop; and one was called the Journalism Club. The most often used title: "Hadio Club."

- 7. Breadoust facilities within the school.—The facilities used were mentioned frequently; only one reported that they had none. Those facilities ranged from "a room wired for broadcast" or a "radio booth" to studies and direct lines from the auditoriums or music rooms to the local stations. Only two superintendents gave any indication as to the quality of what was being broadcast. One said theirs was "good" and a second reported theirs was "very poor" and "since it took so such time, the program was being dropped."
- 8. Hotivation for student broadcasting activity. Heavy of the reports pointed out that a school became involved in broadcasting when the local station either asked for a program or just offered the schools time for a program. One speech teacher's enthusiasm for radio, after she attended the first Adult Workshop offered by New York University in 1936, inaugurated the activity in her community. Interest was generated by two descriptions.
- 9. Additional information Thirty-one cities, in the 126 studied, bad detailed reports about their in-school use of radio programs but failed to indicate any use of local students. The larger cities tended not to include any mention of student activity; whereas the smaller cities emphasized that portion of their radio education programs. This should not be interpreted to mean that the larger cities concentrated on in-school use of radio to the exclusion of any other radio activity;

• .

(x,y) = (x,y) + (x,y

It does purhape indicate where their major emphasis was. Evidence that there was student activity in larger cities came from Detroit; that report indicated that "practically all the high schools and intermediate schools have radio clubs." Hor should it be interpreted that the smaller eities made less use of the broadcast program in their classrooms.

Some of the thirty-one reports suggested that there was a considerable amount of settivity but there was no definite policy regarding that activity.

The efforts to secure radios and to make plans for informing teachers about the programs were impressive.

One superintendent was very interested in adding radio activity to his school system, but he "was voted down."

Another interesting point which was noted was the fact that so many superintendents were directly involved in those student activities.

They supervised students, scripts and helped prepare bulletine for teachers.

Even "sets of God" commed schools to become impolved in broadcesting.

Three first, on carthquake, and a janttor's strike resulted in the schools someowned broadcasting lessons to students in their bosses credit was given when the analyzed work was presented at school later.

To sum up the Atkinson report of these schools and their radio education activities and policies, which may be considered as representative of all the American achools, it must be admitted there was an assurences of radio as a tool for education's use. Educators were experimenting in various ways, such as using the network programs or preparing their own for imperiod use, and broadcasting programs to interpret the schools to the community. The lesser emphasis seemed to be upon broadcasting as a course of study, although educators apparently recognised broadcasting as a valuable extraourricular activity.

From this study of approximately ten percent of the American public schools policies regarding radio education prior to 1939, the following communicate may be made.

- 1. The lack of policy, the lack of definite objectives, and the lack of assigned responsibility for the radio activity seems to be must prevalent.
- 2. The majority of schools had students involved in broadcasting settivity even before 1939. Responsibility for such activity was generally placed upon the English, susic, speech, or journalism teschers, or departments. Results of such activity were not included in sufficient cases to make any conclusions.
- 3. So few indicated their objectives in sponsoring student broadcenting activity that it is difficult to reach any conclusions. From
 those seven that did make specific statements, it may be assumed that the
 general purposes were to provide opportunities for training in the
 generally accepted areas of speech (speaking, acting) and to provide
 apportunities for made and dementics students to perform. Minor
 chiectives might be said to be the study of the technical aspects of

⁴⁵ These conclusions were reached after analysing Atkinson's 126 individual reports and are not included in his own sussary. These particular items sessed particular study.

mails, to reise the standards of approduction, and to provide writing emperiences.

- 4. There seemed to be no strong trend towards either a class or a slub, but there was definitely seem organized effort to supervise the student projects. In the small majority of schools, this activity was extraourricular; however, there were sufficient instances of classes being offered to conclude that there was some trend towards a curricular effering as early as 1939. In some cases, this was work in conjunction with another course, such as English, speech, or dramatics.
- 5. The lack of instructional materials was apparently no major problem.
- 6. By 1939, apparently a few teachers had had some college training or commercial experience.
- 7. Apparently, schools had adequate facilities for teaching, and for preparing their broadcasts for local station use and for in-school programs.
- 8. The initial impetes for such of this student activity came from local stations: invitations to use their facilities.
- 9. The larger cities seemed to have very elaborate policies and plans for utilizing the broadcast programs whereas the smaller cities tended to emphasize student sotivities and through them to do some public relations work and some in-school programming.

Atkinson himself reached the following conclusions from his study of broadcasting activities in the public schools:

Matkinson, Development of Radio Education Policies in American Public School Systems, on, cit., publishes the 126 individual reports

- 1. Wearly half (166.6 percent) of the school systems represented were broadcasting over local stations, varying from a few programs a year to a schedule of several programs each school day.
- 2. Breadcasting was done nore frequently by older students than younger students; although his findings indicate there was a considerable assumt of sotivity at the elementary leval.
- 3. Apparently schools were beginning to offer classroom instruction in radio techniques for academic credit; eight schools reported this practice.

h. The percentage of schools doing some broadcasting second to rise sharply and steadily as the size of the city increased. Nost of this broadcasting was for in-school use. About half of the school systems studied used radio in the dual role of classroom utilization and as an activity for puriles fourteen and one-half percent (14.5 percent) used radio in no ways and only two and one-half (2.5 percent) failed to cooperate with the investigation.

Among Atkinson's final conclusions which are pertinent to this study are these:

from superintendents. Also, Education by Radio in American Schools, (Hashville, Termessee: George Feebody College for Teachers, 1936) is his published conclusions from his study of 1227 school systems. See Atkinson, on. cit., pp. 107-123. Of these, 571 systems reported activity in broadcasting by their schools. he found that 68.6 percent of this activity was by high school students. It is also interesting to note that the FCC had licensed 714 stations as of 1938 in 139 cities. The FCC reports 747 licenses at the end of the year, 1938. See Table 1.2 in this study.

pp. 48-50.

^{*}Did., pp. 3-4, 113-114.

- 1. Radio is an important instructional tool in modern education and one that will receive increasing attention from professional educators.
- 2. Radio is proving to be a constructive influence in the teaching of related school subjects: English, speech, history.
- 3. The radio expert is beginning to enter into educational erganisations as a specialist in both broadcasting and class-room reception techniques.
- 4. Public school systems are best edepted for the planning and production of in-school programs.
- 5. Public school broadcasting policies should be planned so as to use the services of as large a maker of students as possible, consistent with the presentation of creditable performance.

Namy of Atkinson's conclusions were on solid bases and his prophecies are now fact. Radio (and television) is accepted as an important instructional tool and of value to many related subjects (even more than those he listed). Broadcasting by and for education is receiving more and more extention by educators. The period of "trial and error" was ended; a period of study, and evaluation, and planning was sheed.

The surpicular use of radio by the secondary school was such a vital subject of interest and discussion, the entire January 1939 issue of <u>Standard Hethod</u> was devoted to tide topic. Detroit's Western High School's experience was reported in this issue by Arthur Stenius, a faculty member. Discussing their size and procedures, he wrote:

When a person uses the term 'radio in education,' he usually intends to convey some thought of dealing with educational method gather than one concerned with subject matter offered to students.

This., pp. 107-123.

Yet, radio must be recognised as such more than teaching techniques in the schools of today.46

Stanian pointed out that the colleges and vocational schools were teaching medic as a vocational subject and indicated that he believed they should be regretted that the secondary schools were slow in recognizing their stadents, needs.

It is interesting to observe today that some of the city school systems which are leaders in the ETV sovement were leaders in the early days of radio, both in the station operation sotivity and in developing radio curvisular some of these are New York City; Cleveland and Columbus, Chic; St. Loris, Chicago, and Portland, Oregon. These school systems have a long history of developing a broad program of broadcast activities and study.

Emports of settivity in broadcasting by high school students after the late thirties are not as numerous as they were before that date.

Apparently no study similar to the Atkinson study has been made. There are, however, individual reports about schools and their broadcasting activities. Heny of these are listed under "workshops." The ANL Journal, the Constant's Journal of Speach and Senior Scholastic Hamming are largely responsible for these reports. Levenson and Stasheff, Jennie Callahan, Lecensolid, Woelfel and Tyler are some of the investigators who have reserved on this activity. Some other periodicals which have occasionally

^{**}Arthur Stemins, *Radio Units and Courses in Righ School, **
Educational Hathod, XVIII (January, 1939), p. 171.

WIMA.

included articles on student activity are The Instructor, the Curriculum Journal. The Bulletin of the National Association of Secondary School Principals, the School Board Journal, and Sponsor. These examples indicate a wide range of source-interest, such as Speech Association of Association, the carriculum and administrative areas of education, and the radio industry itself.

It is possible to establish a meaningful pattern of public school activities between the late thirties and early fifties by emanining the individual cases from such cities as Detroit, Minnespolis, Cleveland, and others, as well as projects carried out by the Michigan Association of Teachers of Speech and similar organizations.

The Detroit school system has long been radio conscious. Before 1938, it was reported that "practically all the high schools and intermediate schools have radio clube." A report of Western High School's work in 1939 indicated that their course integrated the sociological aspects of radio into their civics, economics, literature, and compatition classes; thus the entire student body received some insight and understanding of the broadcast medium. Later a course was inaggrated whose cin was to give a "true concept of the magnitude and importance of the industry" and consider certain phases vocationally. The basic units of this course wars:

^{1.} The physical science of radio,

^{2.} History of radie,

Phila School Systems, and site, p. 63.

3. Broadcasting as an industry,

i. The uses of radio in advertising, education, entertainment, ter, at seas, etc.,

5. Government regulations,

5. International radio, and 7. Vocations in radio.51

It seems that this course was ghout radio and not in radio.

Apparently it was a survey course and not an activities course which tenght the skills of broadcasting.

By 1945, an experimental course, offered as an elective, was developed to cover a semester's study. The content of the course included physical science, history of radio, station operation, use of radio, government administration, international radio, short-wave broadcasting, television, and a vocations study. Apparently the course content did not change very much between the mid-thirties and the mid-forties.

Interest in radio was high in the Himmapolia high schools in 1939. Schools were taking radio into account and finding it a valuable study. In addition to a workshop, units on radio were introduced into English, speech, and draws courses. They found the insertion of radio into the draws classes to be the most practically here six weeks were spent on radio. Students of the class were able to use the high school's sound system and the local radio stations as outlets for their productions. Teachers addited that an exhaustive study of radio could not be sade in thirty days, but it was felt that this survey would serve as a stimulus

Stantus, log. sit.

^{**}Sjorman Woelfel and I. Kaitin Tyler, Radio and School. (New York! World Book Company, 1915), p. 173.

to the students to continue a study of radio on their own time. The results reported from this program were that students appreciated the opportunity to take such a course and indicated that it gave them an overall idea of the importance of cooperation. Teachers reported that it provided an activity for the corporants of the English course, such as reading, writing, speaking, and a direct approach to the problem of listening.

Evidence that radio as a course of study was being recognized by the secondary schools of the nation is found in the fact that in 1938, the Hickigan Association of Teachers of Speech appointed a constitute of five people in the fields of teaching, research, and professional broadcasting to present an outline for a one-senseter course in Radio Speech.

This consists presented a detailed outline which was later published in the Operatoric January of Speech.

The committee agreed on four basic factors prior to their formulation of much a course:

- 1. A course in Radio Speech should be a course for advanced students.
- 2. Students should show a speech aptitude.

And Rethercott and Donald Bird, "Righ School Radio Workshops," Educational Healton, XVIII (January, 1939), pp. 176-7.

⁵⁴Those five people were Alasth M. Carrity, teacher in the Lansing Eigh Schools Carnet Carrison, professor of Radio and Speech at Wayne University Axel Gramberg of Station WWJ, Detroits Edgar Villis of the Research Department of the Detroit Board of Educations and Cyretta Marford of the Detroit Public Schools.

⁸⁸ Alesth Carrity, Cernet Cerrison, Axel Gruenberg, Edger Willis, Cyretta Norford, "Suggested Course Outline to be Covered in one Semester Course in Radio in Right School," <u>Cuarterly Journal of Speech</u>, LXIV (April 1938), pp. 294-299.

3. Students should have a speech background.

4. This course should not be a substitute for speech fundamentals. 50

They must listed their objectives for such a source:

1. To develop qualities of speech significant in radio.

2. To give fundamental training in specialized and professional fields "which may be built upon, rather than replaced, should the student decide upon radio broadcasting as a career."

3. To insure greater appreciation of radio.

- 4. To furnish a background necessary for understanding and appreciation of radio's continuous changes.
- 5. To cultivate an intelligent appreciation of one of our most democratic institutions.

The committee outlined a course of five basic units; they suggested the sativities and the amount of time that should be spent on each.

Whit I was a survey of psychological factors to be covered in two
weeks. Units II and III were, according to the authors, the most importent units. Unit II was a four weeks period spent on reading with the
ein of gaining control over speech factors. Unit III was a mix weeks
period spent on speech composition. An oral test was recommended for
white II and III. Unit IV covered a two weeks period on acting. Producing
a play was the project. The final unit of five weeks had as its aim, the
coordinating of all the skills learned by a continuous group of programs.

In evaluating this course, it must be remahered that the assignment was to prepare a course in "radio speech." Therefore, in terms of that frame of reference, the countities has offered a practical course. In terms of a course in radio or broadcasting, the course reviewed fails to

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offer some phases of the subject matter, radio, that probably should be included, such as a survey of the sociological significance of the medium. These areas were included in the Detroit courses reviewed. It must also be remembered that the Michigan course was designed for students the had some speech training and some speech aptitudes. Therefore, the new content and skills that were specifically radio oriented could be presented such faster than they could to a class with no speech background. In unit V, a continuous series of programs is suggested in order to bring into play all the skills learned. Nowhere in the details of the course were such skills as the following mentioneds

- 1. The skills necessary in writing the routine show.
- The skills to be learned in the use of music and sound effects in the production of the dramatic show.
- 3. The skills in reporting and delivering the man.
- h. The skills of interview and discussion.

It seems that a course in radio should include the training for such skills. Also, a study of vocational and earest opportunities should, perhaps, be included. This kind of study in high school courses, unless they are specifically located in the vocational training areas, is sometimes fromed upon by educators; this philosophy stems from a belief that the high school program should not be vocationally slanted, that it should be broad and general because it is terminal education for more than half their students. Bosses, the uniters of this course included as one

so The high school years are the period in life when the young person is surveying his interests and talents, looking for his future work; therefore it is the responsibility of every high school teacher "to open as many doors" to the future as possible. This does not mean a detailed study is necessary.

of their objectives, to give specialized and professional training for a cereer in broadcasting should the student choose such, "which may be built upon rather than replaced." This is most desirable. But nowhere in the course outline was such a study prescribed. Of source, a course may be vocationally slanted by teaching proper techniques and skills without presenting a study of job opportunities and requirements. If the Michigan sutline intended such a presentation, it would then meet its second objective.

Proceeding chronologically, the next noted evidence of curricular interest in radio was in New York City's high schools. For several years prior to 19th, the students in the city's fifty-four acadesic high schools and twenty-mix vocational high schools had suditioned regularly for machematic in the All-city Radio Workshop. Hasbers trained for actual broadcast experiences over WHE, the city schools' radio station.

In September, 19th, the Board of Education set up mix advanced courses, excrying eradit, in collaboration with ESC. The CSS network joined the school board in its efforts to expand the broadcast experiences available for high school students.

The Beard set a four-point objectives

- 1. To excite teaching.
- 2. To provide for emperimentation.
- 3. To help set standards of evaluation.
- 4. To offer meens for regular appearances.

Contact Journal of Speech, IXXI (December, 1945), p. 480.

• . The Board's policy was to build a unit of trained youngsters so that the school station's professional staff could use them in their programs produced for in-school use. This cooperation with and by the commercial stations produced the realization that radio and television must be recognized in American schools' broadcasting policies.

By 1945, the advanced courses in radio offered by New York City high schools implied units on television techniques. Reporting on this fact, Standard units, "We have boldly added television techniques to our most advanced course in radio production"; in Schemestady, high school students "face the cameras in Ceneral Electric's Will studios regularly."

The team of Woelfel and Tyler, writing in 1915, reviewed some of the curvicular progress to date; they reported this about the Rochester, Her Tork progress of study:

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Woulful and Tyler, on. cit., p. 176.

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in formulating and carrying out definite radio education policies.

Experimentation with the use of the broadcast program within the classroom began as early as 1925. A Bockefeller Foundation grant made possible
the acquiring of an ultra-high-frequency radio station (established by
the FOU especially for education in 1938). Claveland's MIDE began broadcesting operations in late 1938; today WBOS is one of the leaders in inschool broadcasting.

Parallel with this development of radio's immediate by the Cleveland schools, elective courses of instruction in radio were offered as early as 1933. By 1965, their radio courses included appreciation, voice and diction work, and script writing. By 1969, twelve of the city's high schools were tied together in a central workshop by their use of station WSCE, the school's station. The workshop activities centered around the preparation and production of four types of scripts:

- 1. Administrative bulleting and amountements.
- 2. Promotional drives for extra curricular activities.
- 3. Instructional scripts, prepared by invitation of another department or for WDOS for in-school use.
- 4. Original scripts for "broadcast assemblies."

World War II had its effect upon the high school curriculum just as it affected other facets of American life. It caused the curriculum to be revised and adjusted in terms of the needs of the times. Its specific

^{*}Atkinson, on oit., pp. 69-74.

equevenson, on sit., p. 39.

^{***}Balligh School Radio Workshop, * Sanior Scholastic, LIV (September 18, 1949), p. 187.

Cleveland schools have been pioneers among American school systems in formulating and carrying out definite radio education policies.

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^{**}Levenson, on. cit., p. 39.

^{***}Bigh School Radio Workshop, * Sanior Scholastic, LIV (September 18, 1949), p. 187.

effect upon radio was cited by one high school teacher as follows:

Because radio is essential in modern war, the radio class suddenly has been lifted to a higher status in the new high school curriculus.

The end of the war brought many changes too. FM and TV had emerged; the FCC had reserved channels in both modia (FM in 1945 and TV in 1952) for education's exclusive use; colleges were expanding their curricula in broadcastings

Not to be outdone by the colleges extering to student interests, many high schools are now offering courses in radio, some unfortunately with no other specific objective than a desire to appeal to public interest. Course content is frequently left entirely to the discretion of the teacher, usually the specific teacher, whether or not he has any sound knowledge or experience in the field of broadcasting.

During the forties, educators were doing some serious thinking about curricula. Mumerous institutes and conferences during this period attest to this fact. Although high schools were not as intensively interested and active, there was some concern about radio's place in the curriculum and there was some activity. Some schools were actively interested in establishing Fi stations. A number of schools were establishing high school workshops. A few were adding courses to their curricula or including units of radio study in related courses.

That this was the trend is reflected by the many articles and speeches which appeared at this time. A speaker from the professional

Program, Curtorly Journal of Speech, XXIX (October, 1943), p. 283.

[&]quot;April 1946), p. 55.

broadcasting field indicated that "more than a thousand high schools" serve offering some kind of training and experience in radio skills.

A professional educator noted the increased radio training being offered by high schools:

While hundreds of high schools throughout the country now sponsor Radio Workshops or Broadcasting Clubs, many have incorporated the actual intensive study of radio in the curriculum, usually as an elective. • • •

Typical of the kind of statements being made was this one from Elizabeth Harshall of WHEZ, Chicago's school station, "Hadio workshops are becoming increasingly popular throughout the country."

Another trend-revealing statement comes from Jennie Callahan, in her book, Radio Workshop for Childrens

With a little encouragement from administrators and teachers many state boards of education would lend their support to school systems wishing to establish radio workshops. A master of state boards of education are interested in setting up Fil stations that would make facilities available to a great number of their schools. Some state boards admit that they are discouraged in their planning by conservations and lethergy in many of their schools. Others are hesitating, on the strength of the myth that good radio programming is beyond the scope of the average educational system.

School workshops with local station cooperation, are combating this disturbing accusation. Figure school systems that have established radio departments say the placement of radio in their schools and their weekly schedules offer sufficient proof to

⁽Columbia, Missouri: Stephens College, 1948), p. 53. Miss Grace Johnson, Manager, Continuity Acceptance, American Broadcasting Company, was speaking.

Dorothy Hulgreve, Speech for the Classican Teacher, (New York: Prentice-iall, Inc., 1945), p. 3/3.

^{**} Thostion, LIVII (ay, 1917), p. 560.

please the skeptics. As soon as educators recove the hardicap of skeptics in their ranks and train themselves in radio techniques, they will prove their own shility to fit broadcasting brilliantly into our national educational pattern. 72

Gertrade Broderick made this observation relative to public school interest when she cited the performance of superintendents at a School Broadcast Conferences

Increased interest by school administrators was noted at the recent School Broadcast Conference in Chicago when three city school superintendents from different parts of the country discussed the subject . . . (redio).78

Coviously, then, the years between 1939 and 1952, were marked by a slow, steady, unspectacular growth in curricular interest and development of radio as a course of instruction in the high school. Content was being emained and evaluated; procedures and activities were being developed experimentally. This development of curricular content was a solid basis upon which to build. The "trial and error" period had long passed. Passive resistance from those who either feared the consequences or could not envision such a study in the curricula was no longer a factor. Prejudice based on a philosophy of established disciplines, and resistance that is normal human behavior to now ideas, had been everouse. Broadcasting as an entity within itself, as a discipline of academic marit was now establishing its own methods and techniques of instruction, its own set of values and objectives.

Pajernia Callahan, Radio Famistian for Children, (New York) Hourse Hill Book Company, 1948), p. 316.

^{**}Cortrade Broderick, *Radio in the Curriculum, * School Life, XXIX (April, 1947), p. 28.

Although this study is specifically concerned with radio as a course of study in the formal curriculum, the radio workshop as a related activity must be considered. Very frequently the term "workshop" is used to indicate a commicular or extracurricular activity. However, "workshop" is frequently used in reference to a laboratory or activity type of course. Therefore the term, "radio workshop," is sometimes used when the uniter or speaker is talking about a course of study for academic credit. Because of this confusion, it is difficult to separate the two programs. In fact, in today's high school there seems to be a "wantshing wall between courses and extra activities." Today's high school is going through an evolution of "growing exphasis on extracurricular activities, but with an uncurranted dichotory between curriculum and extracurricular activity."

Some of these emerging developments are recognised by the Office of Education in the following statement:

Old labels cover a wide variety of now educational experiences. Social studies include current events, use of community resources, consumer education, . . . implish has gone far beyond greaser and rhetoric and a study of classics. Most school subjects have become brosh fields of learning.

Once sharply marked, the dividing line between curriculum and extracurricular activities has become blurred. The glas club, band, and orthostra have now become part of the curriculum. Student publication activities have been absorbed into journalise courses, . . . The curriculum has increasingly included learning activities carried on cutside the school building.

The Venishing Wall Between Course and Club, Clearing House, ITVII (September, 1952), p. 8.

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Bulletin No. 1, 1994, "Emerging Lavelopsents in the Secondary Education Program," (Washington, D. C.: Government Printing Office, 1994), p. 79.

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Clearing House, INVII (September, 1992), p. 8.

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Bullstin No. 1, 1984, "Emerging Lavelopments in the Secondary Education Program," (Washington, D. C.: Government Printing Office, 1984), p. 79.

The principles of modern education are realistic in their approach to the learning process. They seem to accept a belief that education is an activity that is instructional, purposive, and significant to the student. Modern education accepts the fact that the broad range of activities within and without the classroom are learning situations, that each motivates and implements the other, hence the radio club or workshop becomes a classroom regardless of credit granted.

Since the distinction between the two is so insignificant (credit and time of meeting appear to be the major differing factors) and because both the course and the club are prevalent in today's high schools, they are considered together within the framework of this study. however, wherever possible, the distinction between the two will be considered.

The appearance of the workshop or club was a normal procedure.

Several factors seem to be responsible for their meshrooming. As has been reported earlier, many schools obtained their own breadcast licenses because of the interest of a group or person within the school. The station provided a laboratory for that interest.

Once the station was established, programs were necessary; so other students and sometimes faculty maders because involved. A last of knowness caused some stations to cause operations; others turned to smallable agencies for help. For example, they turned to the various services of the United States Office of Education for scripts and production help.

Less radio workshops or chibs developed in another way. With the advers of radio, the possibility of presenting programs by the schools.

to spall out their meals and problems, opened up new averues of communication between school officials and their communities. These public relations programs became, and still are, a large portion of the school But progress need talent and directors. At first, adults were used almost exclusively, then the school child was used. The speech, thester, susio, or English teacher was the most logical person to direct such programs; one of those usually received the assignment. Then in order to have a group trained and coordinated for producing the necessary radio program, the tomoter did the most logical thing, formed a group of students interested in the various phases of broadcasting (writing, acting, speaking, maio, sound affects, simple board operation, etc.), into a club or workshop or tesm. In turn, these groups frequently washed to produce more than the occasional public relations program received of thems consecuently they produced in cooperation with local stations. A series of shows with student talent (news, susic, drawn, erom discussions).

produced over commercial stations by educational institutions in 1955-56 which revealed that at least 32% had public relations as their reported purpose.

WAtkinson, op. oit., p. 2.

⁽New York: Longmans, Green and Company, 1954), pp. 99-100. Robinson, and others, point out the possibility of such assignments to the future speech teacher and advise proparation.

The common practice today in cities where there is a schoolcamed station and where there is a definite policy and program for inschool use of broadcasts to recruit talent for these in-school programs from a central high school workshop. New York City, Detroit, St. Louis, Claveland are examples of such practices. Students from all high schools generally sudition to become manhors of the central workshop. Generally, many of the individual high schools will have their own training workshops.

stances. Development of Fá and TV resulted in more hours of listening. Temperar became interested in learning about this new tool of communication. Their regular class program at school did not offer an opportunity for such study, so they provailed upon some teacher with allied interests to sponsor such an activity. Eventually, a club or workshop was established in order to have a framework within which to plan the activity. In some cases, an adadnistrator would appoint some teacher to sponsor the activity, after student pressure for such indicated to him it was warranted. Or in some cases, a teacher's enthusiasm for madio would fire the students interest and a club would result.

As her often happened, these clubs or workshops would eventually request a class in order to gain status and to have more direction from a temperature than is generally permitted in the extraourricular program.

heny subjects in today's curriculum were originally extracurricular activities. For example, the high school nemapeper and yearbook, the annual school play, the band and crohestra were once produced by interested groups in after-school hours. Today, they generally appear within the curriculum as courses in journalism, dramatics, and music.

Since it is apparent that there is a trend in modern secondary education towards the disappearance of the wall between course and club and since there is the dual use of the term "workshop" to indicate both class and club, it seems advisable to attempt to define a "workshop" and to try

Secondary Education, Lone cit.

 to discover the relation of a workshop to the school in general, to the speech areas in particular, and to other related areas.

There seems to be some disagreement as to the mesning of "a workshop."

Ben Darrow defines a workshop as a "grouping of people interested in the better breadcasting of scripts now available."

Sherman Laston calls it "... a place where a group get a progrem ready."

Edgar Dale classifies workshops as formal and informal groups; the formal workshop actually breadcasts and the informal workshop is one which studies, observes, and simulates.

Levemen reports that educators are generally entimelastic shout workshops; he defines them according to a statement from the Committee on Radio Verkshops of the National Advisory Council for Radio:

The radio workshop is a laboratory for experimentation and training in broadcasting techniques and education content. The experimental phase of the workshop deals with materials of learning suitable for radio use in terms of the interests, of general radio listeners, and of large special groups; with effective broadcasting techniques, including preparation of materials and their presentations with methods of stimulating listener interest, of organization of listening groups, and of encouraging cooperation with existing social agencies, such as schools, civic organizations, governmental bodies, women's clubs, and commercial groups, and with the improved use of studio equipment, and radio facilities generally.

These definitions, when they are analysed, are not contradictory. In essence, they seem to indicate that workshops are laboratories, a

^{*}Ben Darrow, "Radio Workshops-Next Step," American School Board

[&]quot;Redic Workshops," Education on the Air-(Columbus, Chio: Chio State University, 1940), p. 262.

^{**}Brigger Dale, Audio Visual Methods in Teaching. (New York: Dryden Press, Inc., Publishers, 1946), p. 292.

⁶⁴Levenmon, op. cit., p. 223.

place where acientific or tochnical work is done. In the case of radio, one should add that a workshop is a place where artistic endeavors are attempted or created, where learning takes place either vicariously or under supervision, or where there is learning that occurs through activity and the use of equipment as opposed to learning by reading and from leatures. Academic credit for such work is not an important factor.

In some modern classes or clubs all the foregoing benefits occur; in others, one or a combination of the preceding occurs.

So it is understandable why the term "workshop" is applied to classes as well as to clubs; they are places where there is activity which is manningful for the individual and which uses specific equipment to accomplish that end.

Obviously any results or values that may accrue from such activity would be similar, whether the activity is in a class which grants credit or in a club that the individual student has voluntarily joined. The values of such activity are discussed later in this study.

The 1950's brought television and an increased somethus in in-school use of radio and television. The Fi school station sovement was just gaining momentum. Television brought an increased searchess of the broad-cesting media's potential for education. Leading high school speech texts were revised to include units of study on television. Eigh school work-shops began to include television work. If real studies and calcars were not swellsble, designs for mock-up careers were. The story of radio was being repeated.

Fitteburgh is a city that has long been radio conscious. From the construction of KDRA, the first licensed radio station on the air, to its educational television station, NOTO, there have been a long series of broadcasting events to make this city and its schools radio and television conscious.

Examples of how this radio consciousness has spilled over into the schools and colleges are the establishment of the sunicipal station WEED, (which is now seeking to put a second station on the air in that city), Duquesne University FA (2.75 KV, VEUQ) station, and its Catholic High School Workshop.

A radio course in the nature of a workshop was established in the early fifties as one of the major activities of the Federation of Catholic Righ Schools. Using one fully equipped studio, students from forty-three Catholic high schools attend classes on Saturdays and Sundays. They broadcast their progress over MUG, Duquesns University's educational madio station. The objectives of this work were "to give preliminary training in radio, practical experience in theory, opportunity for rehearest and proparation for student broadcasts." The course offered work in techniques, acting and writings and for the advanced students, there was the additional experience of assisting in the teaching duties, and directing and producing for broadcast.

^{***/}TER, New Castle Schools, purchased Duquesne's 10-watt transmitter in 1950 when MIUQ obtained permission to operate with 250-watte.

School Students, Catalia School Journal, LII (Jamery, 1992), p. 11.

A study performed in 1991, designed to discover the tronds of rediction the high school curriculum, especially emphasized the progress in the state of Tomas. It was assumed in that study that the state as a whole had no policy regarding radio in the curriculum. Apparently the state department is making an effort to help schools establish radio in their curricula and have set forth the following objectives for such an offerings

- 1. To launch the individual on a career in the field of radio.
- 2. To give the student actual experience in the production of radio progress.
- 3. To encourage the student to feel confident of hisself while "under pressure."
- h. To develop better speaking hebits of emmulation, promuciation, diction, solf expression. 87

Unit I covered the history of radio. Unit II was an introduction to a station by a visit and observation of that station and staff in operation. Unit III was a "voice and diction" study which used the general speech techniques for study. For activities, the outline suggested that students write and deliver the school's amountments. Unit IV was a study of newcasting and amounting. Unit V was titled "sound effects"; although it studied both music and sound and apparently some drawatic emerciacs. Unit VI concentrated on the production of plays. Unit VII was a vocations study.

^{**}William M. Shropshire, "Survey Analysis of Contemporary Trans in Educational Radio in Secondary School Program," (Unpublished master's Themis, Tomas Christian University, 1750), p. 51.

found in <u>Bulletin No. h.</u> prepared by the Federated Radio Education Constitute for Schools of the Air and Esdio in High School Jurriculum. This augusts a one-half year program covering history, speech, program evaluation, observation, and production.

As recently as 1952, Levenson and Stasheff reported that "a separate and distinct course in radio has as yet bean tried in but for high schools."

It may be said then that generally speaking, radio, as a course of formal instruction, in the high school today, is not found in the asjority of schools; where it is presented, it is an elective subject. But there evidently is a considerable amount of activity in the form of workshops and clubs. Another indication of the present status of radio courses in the high school comes from Rabinsons

At present radio courses are taught in comparatively feat secondary schools. It is not uncommon, however, for the speach teacher to include a unit on radio in the speach course, or to be responsible for radio and television shows in the school or over the local station outlets.

The fact that many of the cetablished high school speech taxtbooks have been revised to include chapters on radio and/or talovision is evidence that educators does the subject one that should be studied in the high school curriculum. This suggests, however, that speech courses should include units on broadcasting and that such work should

^{*}Plevenson and Stanbaff, on. cit., p. 319.

Onobinson, on ait., p. 405.

^{*} Francis Griffith, Catherine Helson, and Edward Stasheff, Your Speech, (New Yorks herocurt Brace and Company, 1955).

Vilholmina G. Hadde and Villiam Borwood Briganus, How Lacrican Speech, (Hew Yorks J. B. Lippincott Company, 1957).

Les Sarett, William T. Foster, and James H. McJurney, Spacel, (Boston: Roughton Mifflin Corpany, 1956).

Andrew T. Wesver, Gladys L. Bordiers, and Bonald K. Smith, Specifing and Listening, (Englewood, New Jersey: Frantice-Hall, Inc., 1956).

consentrate on the oral aspects of radio. Already it has been pointed out that radio techniques provide notivation and procedures for study in other courses; but as such this is not a study of radio. Therefore, the fact that speech textbooks in particular (and some highigh texts) include made units of study (or a few projects) in broadcasting is indicative of the attitude of educators. In this respect, the fact that units of study of radio are recommended for inclusion within speech courses is good; but it is good only to a limited degree. It is limited because one or two emptors provides insufficient materials for one or more senseter's work and because radio is not being studied as radio but as another subject matter. Radio as an academic subject is broad in scope and has its own disciplines and its own body of literature and research. It is an entity within itself worthy of recognition, and it should be studied because of its sociological effects upon our society.

There are two books available to the high school teacher for a course in broadcasting. The first, Redo English is the only known text on radio especially designed for high school use. Here again, the inference is that this is an English book with a radio slant. Examination of the book confirms this suspicion. Exercises and objectives of various lessons are writing, reading, speaking-centered and -directed; the supposes a tool for the end-product.

The second book, previously indicated as available for high school

Priorence F. French, Villiam B. Levenson, and Vera C. Rockwell, Radio English, (New Yorks recommended Book Co., Inc., 1952).

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Performing. The authors of this book do not state that it was their purpose to provide a high school textbook, but the treatment of the subject is such that it can be used, to a limited degree, for such a purpose. Projects suggested are possible within the limits of a class-room; the organization is simple, logical, and instructive in such a way that a high school class could comprehend the subject and accomplish a certain ascent of seamingful activity. But the book is limited; its subtitle indicates its limits as a book for studying only the techniques for planning and performing for television. So again, this book is not adequate for one or more semanters' attudy of broadcasting if one accepts the philosophy that a study of broadcasting must include both skills, and the economic, sociological, and ethical aspects of the field. One

There are textbooks designed for collegiate use which can be watered down for use by high schools; but there is no book especially designed to neet the high school's needs in terms of student comprehension and limited studio facilities which meets the sendouds standards outlined in the preceding paragraph.

Chose examination of the foregoing materials makes it readily appearant that most solvable engaged in radio on the secondary level have a set of working objectives. Some of these objectives are stated by educators in terms of the values that obviously accrue from the activity in

for Planning and Performance, (New York) Henry Bolt and Company, Inc., 1958).

broadcasting, either curricularly or extracurricularly; some have made public record of their objectives.

It is obvious, after examination of the report of the activities, and the stated objectives and values, that shong those who work directly with classes and workshops there is a wide range in philosophy. This is understandable; each set of objectives is a logical sequence to the events surrounding the entrance of broadcasting into a particular high school. The circumstances peculiar to each situation tended to shape and direct both the work done and the philosophy supporting the work done in classes and/or clubs. Hence goals were set in terms of reasons for the inclusion of such activity in the school's program.

Even though these objectives do seem to cover a wide range of other cationally acceptable goals, they have certain communities. In fact, they tend to be more alike than different; those differences evolved out of those circumstances which created their philosophy.

The basis philosophy which seems to support nearly all the broadcasting activities in high school may be stated rather generally. Broadcasting activity in secondary education shoulds

- 1. Continue the development of the language skills, particularly speaking and writing.
- 2. Motivate and provide opportunity for individual selfimprovement in a variety of ways.
- 3. Provide an understanding of the industry, its operation, and its economies.

- h. Create an awareness of the socialogical implications of the industry.
- 5. Develop stendards of evaluation and appreciation.

Most educators agree that such activity for high school students should provide a means for the continued development of language skills. Probably opportunities for speaking and acting are more readily available than for the other skills; however, experiences in writing are highly recommended. Only a few educators seem to recognize any potential for improving the listening skills by means of broadcasting activity.

Another commonshity among the various objectives was the motivation for self-improvement that such activity should give to the student, and then should provide an opportunity for satisfying those meeds. This process of socialization, so important to adolescents, is inherent within the nature of broadcasting because the broadcasting activity involves a group of individuals at different tasks, all working for a common goal. Elizabeth Harshall, director of the Chicago Schools' Central Workshop and Assistant Director of the school station, NEEZ, discusses at length the values of this activity. Concerning the possibilities for self-improvement, she says:

Such workshop groups are not ends in themselves. In addition to their being experimental labs for planning, preparing, and producing programs, workshops offer students immeasurable values, such as:

- 1. Cooperative working with a group
- 2. Subserging of the individual for the good of the group
- 3. Respect for right of others
- L. Socialisation
- 5. Getting along with others

- 6. Development of "stick-to-it-lve-ness" and "follow-throught
- 7. Acquiring a sense of tiding
- 8. Sharing of responsibilities
- 9. Acquiring habits of prosptness
- 10. Opportunity for development of confidence and poise, everosing self-consciousness and rambing out one's individual personality.

Jennie Cellehan exphasizes these same values; she writes of the dignity gained through schievement, of confidence gained, of personal sesses and liabilities discovered, and what to do about them. Helman and Tyler list as one of their six values to be gained from such works It "provides opportunity to develop poise and other social qualities."

One goal appearing less frequently, but often enough to be considered as a common objective, is that such activity should provide an understanding of the industry; its operation and connectes should be made understandable to the student because of its importance and size in our American life. A second goal calls for the sociological implications to be student the student should gain an american of current affairs and the effects that broadcasting has upon them.

Group activity in broadcasting should also provide the student sufficient experiences under control and direction so that he say devolop a set of standards for the selection and appreciation of what he hears, and develop some skills for evaluation.

^{**}Slizeboth Farshall, "Radio serves the Language Arts," Education, LXVII (Nay, 1917), p. 561.

^{**} Jennie Callahan, Radio Fortation For Children. (New Yorks ReGress-Hill Book Company, 1948), p. 290.

The Bulletin of the Mational Association of Secondary School Principals, IXIX (December, 1945), p. 98.

These objectives, then, may be considered as the ones which are more generally accepted as the working philosophy for broadcasting activity within the high school, whether this activity is in classes offered for credit or offered within the framework of the entracurricular program.

There are, however, differences and variations in the objectives and values as set forth by educators. These should be considered but it such be sindtted, as was previously pointed out, that these differences arise out of the directances peculiar to each school situation. Some of these med recognition here because of their educational significance and because they appeared more than once. Some of those objectives toward which broadcasting activity in the high school should be directed are as follows:

- 1. Provide an opportunity for regular professional performances.
- 2. Provide an outlet for the better quality work done in writing and acting.
- 3. Improve relations between the community and school.
- k. Integrate the learner's experiences.
- 5. Develop am interest in the arts.
- 6. Contribute culturally to the student's life.
- 7. Motivate a study of English and American literature.
- 8. Stimulate an interest in various phases of contemporary life.
- 9. Aid the school with broadcast materials, talent, and techniques.

This wide variation of objectives should not suggest that because one school does not offer most of them, that that particular program is not as effective as one which does tend to include more. Rather, this list suggests there is a wide variation in programs and that the reason for such scope is that each program may be coordinated with the total school program of that situation.

Frequently objectives are stated in negative terms. Some educators

seem to feel that their philosophy should indicate some functions that

should not be included in a program of broadcasting activity. For instance,

Levenson and Stashell have this to say regarding the radio workshops

• • • the high school workshop is not, and should not be, privarily vocational in its intent. The demands of the radio industry being that they are, both quantitatively and qualitatively, any attempt to do more than mention such exployment is, in the writers opinions, quite unfair both to the child and the radio industry.

Among the many who do recommend vocational training as one of the objectives for high school broadcasting activities was the Michigan Association of Teschers of Speach; their proposed outline for a semester's work in radio specifically stated that such work should give fundamental training in specialised and professional fields "which say be built upon rather than replaced should the student decide upon radio broadcasting as a career."

After making a study of high school radio workshops and courses, William Shropshire draws the following conclusions:

^{**}Levenson and Stammerf, on cit., p. 306.

security, harrison, et al., loc. cit.

Generally, the workshop programs are designed to serve as an outlet for work accomplished within the school, to show the place of the school within the community, or to serve as educational programs for adult audiences. Perhaps the best creative work is done for special occasion programs when the aim of the program is not to justify or supplement education, but rather to employe and define the high school student's conception of the abstract qualities of life.⁹⁹

Levenson and Stasheff reviewed a number of workshop objectives and concluded that inassuch as the student will be a constant radio consumer workshop activity should aid the student to be an intelligent consumer. This implies the development of critical thinking, intelligent discrimination, and appreciation. Secondly, the workshop can and should challenge the creative shillties of the student. In other words, they see the workshop's objectives in terms of what it can do for the student:

The radio workshop can serve as a practical project for the development of skills, in both writing and speaking. It is a 'natural' for the teaching of English; it affords opportunities for the development of desirable attitudes, among them punctuality and reliability; it desonstrates the interrelationship in subject matter; and it provides experiences which in turn make for a more intelligent response to a major influence in modern life. 201

And thirdly, they conclude that the workshop has definite values for the school in terms of better student-faculty relations and improved relations between school and community.

Shropshire, op. cit., p. 76.

²⁰⁰ Levenson and Stasheff, op. cit., pp. 306-9.

¹⁰¹Thid.

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In the fall of 1952, the Superintendent of Schools and the Board of Education invited representatives of Furdue University to discuss with them the steps involved in studying school-building needs and planning for the future. Such a study was initiated under the direction of a citizens, steering committee and Furdue University's Division of Education and Applied Psychology. Results of that study were published in 1953.

Since schools do not operate in a vacuum, but are an integral part of a community, it seems advisable to introduce the community of New Costle.

How Costle, the county seat of Henry County, Indiana, is located fifty wiles northeast of Indianapolis, seventeen wiles south of Huncie, and seventy wiles west of Dayton, Chio. State highways 3 and 38 intersect at the west edge of the city and U.S. 42 is just nine miles south of the city.

Nost of the county is a rich, fertile plain drained by Nine River and is today one of the important agricultural areas of the state.

Until the advent of the automotive industry, New Castle was primarily a trading center which served the surrounding agricultural area. Its townspeople were trademen and craftenen. In 1906, the location of the Newschil Automobile factory in New Castle began a new era for the town.

Other industries followed and in 1952, there were eighteen major manafacturing companies employing thousands of skilled and semi-skilled workers. The Chrysler Corporation, which took ever and enlarged the

Manuall plant, now leads the list with approximately 4,000 exployees.

Despite the downsness of manufacturing in the town, New Castle is still considered an agricultural center.

Approximately one-half of the families in New Castle are native-born. The percentage of home comercial compares favorably with that in other communities and about twelve percent of the homes have been constructed since 1940 near or outside the city limits. Nomen represent more than twenty percent of those gainfully employed, and they are usually found in charical, sales, and service categories of work. A small portion of the workers, both men and women, commute from near-by cities and towns. A large majority of the male workers are in occupations classified as skilled, send-skilled, and unstilled work in the numerous industries. Other male workers are suployed in the professional, sales, and service occupations commonly found in an industrial and trading center.

A number of civic organizations have been established since World blar II and now involve many of the citizens in projects for the betterment of the community. They seem to create a feeling of pride in the community and cause others to become involved in community affairs, such as a detention home for juvenile delinquents, a community saturding pool in one of the parks, an X-ray unit and a pathological laboratory in the county bospital, and acceleration of the schools building program.

A Comparative Study of the School Building Meeds of New Gastle-Beary Tomebin School Corporation (by Division of Education and Applied Paychology, Furthe University, Lafayette, Indiana, 1983), p. 1.

Thid., p. 16.

The community has a large YDA, which has its own grammatum and swimming pools its diming rooms have assumed the function of a civic center where many groups meet regularly. There are two large recreation parks which have a wide range of activities, including golf and swimming. Forty-two churches serve the population. There are two hospitals, one of which has such complete services that specialists from metropolitan areas come to serve the medical needs of such of eastern Indiana. One of the state's ten mental hospitals is located three miles north of New Castles it cares for about 800 petients. This mental hospital and the county hospital provide the incentive for such civic and philanthropic work. In addition, the term supports two mirating homes for the aged and the Gennty Farm for those incepable of caring for themselves.

culturally, New Castle is distinctly divided into three social groups. A very small percentage of the population support a series of charber music concerts, art shows, a poetry society, and a historical society. A somewhat larger percentage find most of their entertainment and cultural satisfactions in Indianapolis. This same group supports a little Theater, which has existed over the last twenty-five years on an "on and off" basis. All such programs (lectures, concerts, and theaters) have not had a continuous existence in New Castle because there is no available place, such as a cossaunity suditorium or civic center. The high school gymnatium, which is small (1800 seats) and very difficult to rent because of the heavy school schedule, results in church sanctuaries being the only swailable meeting places. The X-LA diving rooms provide

three elementary schools have been built and have included the new allpurpose type of room (cafetoria, auditorium, gymnasium). These are now
available to a limited degree for community affairs. The third group,
and the largest group of the population, finds its cultural and recreational
satisfactions within the community's park system, might school, and other
similar available outlets.

Educationally, New Castle is well located for its young people to seek higher education. Within 100 miles there are a number of recognized solleges and universities, including three state institutions; there are also a number of trade schools and one fine art school. Three are within a commuting distance of twenty-five miles.

More recent data concerning population trends for both the community and the high school already indicate the validity of the Furdue study. In 1950, according to the official commus, New Castle had a population of 18,000. According to a commus taken in the spring of 1958, at the request of the local Post Office, New Castle's population had increased to 22,000. The most significant increase is noted after 1930 and in the suburban areas. The Purdue study concludes:

If all factors affecting population growth do not change, this community can expect a population of 37,000 persons by 1960, or an increase of approximately 6,000 during the current decade.

The school community has experienced the same growth. In the fall

Thid.

of 1952, the total school population was 4,922; in the fall of 1959, the total population 5,732.

Perologient of Prospession Activities in New Costle

Broadcasting activities entered New Castle High School in 1938 when a central sound system was installed. A review of the subsequent activities falls into categories concerning facilities, content, and purpose of these activities. Chromologically, the report of such activities falls into several distinct periods.

The school year 1933-39 was spont in getting acquainted with the sound system; it was a period which the installation engineer spent "getting the bugs out of it." Very little school use was made of it; occasionally the principal would make use of the system for announce-ments.

Beginning with the school year 1939-47, that principal became superintendent and a new principal came into the high school. With his came a definite philosophy concerning student activities. The new principal operated how Castle high school under a philosophy which said, in effect,

Thid., pp. 26-27. These figures do not include 115 pupils in the six-grade Catholic school.

Courier Times, New Custle, Indiana (September 9, 1958), page 2, column 6.

The principal than was Mr. Roy M. Valentine, now deceased.

The principal who came in 1939-47, Dr. I. R. Hitchell, remined until 1942. In 1945, he went to Furdhe University. At present, he is Director of Teacher Placement and Professor of Education, Furdhe University.

that an activity which provides a learning situation should be included in the school program and adults should recain in the background to provide direction. He was also fully sours of the many accusations being made of principals, misuse of central sound systems, such as too frequent interruptions to make announcements and listaning in on classes.

Therefore, the principal assigned the speech teacher to be responsible for all microphone work. All his messages were written out and sent to the speech room. Members of the speech classes prepared all other ammunicatents. Then, as a part of the speech class work, these amountements were arranged into a program and "broadcast" during the home room paried to the entire stations body was thirty-five load speakers.

The combrol panel for the sound system was placed in the principal's office; boys in the speech classes learned to operate it. Machors of the classes assigned "to breakleast" went to the office for this duty.

The ideas of the principal, the students, and the speech teacher for programs soon resulted in more elaborate programs. For instance, on Hombers a program highlighting some historical event of the current week would be presented; Lincoln's Day, Hallowson, Indiana's entry into the union were such ideas. These programs were often arranged in story or drawatic form.

Vocational information would be presented in Tuesday's program.

This was produced with other departments providing the factual information and sows of the talent. Some of the subjects presented in those

The speech teacher is the writer of this study and the only speech teacher mentioned in this study.

progress were. "May take advanced math?", "why take aschanical drawing?", "May take advanced home making?", or "that is required to become a butcher?" or an engineer, etc. These progress usually consisted of information given by means of an interview between a teacher from the highlighted department and a speach student, or a dialog between two students.

Produced by the advanced speech class; smethers the dramatics class or some of the class would compared. Elements in the programs would be reading of the scripture, short semanatics by public-speaking students, made by the sumic department, and parkaps some poetry; all would be designed around a central those. Occasionally, the students would invite local ministers to speak on these programs. These Vednesday programs became quite elaborate during heliday sensons.

Theretay was self-improvement day. Programs for this day were usually presented in cooperation with the home Economics department.

They centered around social and personal problems of tempers, such as:

- l. Lor do you sak s girl for a date?
- 2. How often should a temperor of the family car each week?
- 3. How much should a date cost?
- 4. Wat is the proper drops for the "prop"?
- 5. Why do my parents always seem to say "no"?

The format for these Thursday programs was either a group discussion or several students would pose the pro-set questions and one or two toachers would give the enswers; this would be followed by discussion.

Friday was "citizonamip" day. Programs on this day were nest frequently built as pop programs designed to help the team. Student Council mashers, exacts and some faculty mashers would talk. The yell leaders frequently appeared; associans there would be featured ausic by the band or popular music by local students. Sometimes this day would be used to "give erchide" to a student who had achieved some honor for himself and his school. This custom of giving "crohide" continues to this day.

Residers of this report who have known high school assembly or convection programs will recognize the sources and functions of these programs.

Now Castle High School did not have an auditorium; its gyanssium was three blocks distant and did not lend itself to many types of programs. Consequently, the principal utilized the aderophone facilities. Here today, the school has no auditorium, so the daily sorming news "broadcasts," which are a part of the home room period, have become the core of the school. They would it together and make it a unit; they give spirit and personality to the school.

It is interesting to note that several of these programs have become traditional and are continued in similar namer today. The custom of recognizing a student who sublaves honor for his school and himself, "giving orchids," is one example. The chapel programs are still produced on Vednesdays. The historical highlights that once were presented on Mondays are now presented on whatever day they occur; advance notice is sent to all teachers that there will be a special

broadcast on a certain day. Futting the team on the "victory read" is still a part of the Friday program.

The speech teacher realized that the time and energy for producing these programs taken from the speech classes was expensive in terms of speech objectives. Also, the lack of flexibility in the equipment was a handloop. The principal also recognized these problems; he asked the speech teacher for ideas on how to improve the situation. The result was two-fold.

First, in 1941, a long cable line was installed; the cable connected the control system in the office and the speech class room at the end of the hall. This made it possible for the classes to have a reheared with a "dead" wike in the real room situation; positions around the wike and other wike techniques could be better planned; and there was more floor space available.

Secondly, a class was designed for this work. At first, it was an honor speech class; later in 19hl it becaus a radio class.

The systematic series of broadcasts begun in 1939-10 were elaborated to reach the stage just described by 1912-13. A one-credit radio class was added to the high school's schedule in 1911-12; it was titled "Andio."

These changes in facilities, the additions to the schedule, and the progress development resched this stage by 1943. Between 1943 and 1947, there was little change in the procedure and in the equipment. What changes did sooms were due to differences in personalities in charge of

the operation and did not reflect any change in philosophy. The principal and the speech teacher were gone from the system by 1763.

In 1917, the speech teacher returned to the system and was asked to continue the former "deily FA programs." By this time, a radio class was a definite offering in the subcol schedule.

In 1947, the community acquired a commercial Fi station; the schools accepted a half-hour weekly program spot. The responsibility for tide program was given to the speech teacher.

Once again changes were made in the facilities which gave much greater flamibility in operation. Juring the school year 1948-49, the controls of the sound system were moved from the office of the principal to the speech class room. They were mounted on a deak; an amplifier and panel from from an RIA disc recorder were used as a console board. An Ecko tape recorder was purchased and placed at one end of the deak; a turntable from a record player was mounted on the other end. This unit was placed in a front corner of the room and served as the "studio" until the fall of 1950.

By 1949-50, the series of progress produced for the schools for broadcast over the local F4 commercial station had taken a definite format; and the production, a definite routine. A core of student writers, emmonmers, and assistants had been trained to serve as a staff for those progress which presented or featured the work of some class room, building,

The principal became principal of Richmond High School, Richmond, Indiana. The Speech teacher left for duty oversess with the American Red Gross.



or department each week. Sometimes this meant that a team of workers had to be sent out to record a portion of the program; this was called "remote duty" assignment. A member of the commercial station staff who had received college training in radio aided this program with advice and assistance. Since the teacher did not go with these students essigned to remote duty, the station was frequently accompanied the students; sometimes they went alone.

In 1949, the principal informed the speech teacher that an application for one of the educational Fi licenses was being made. Several business men's groups soon gave a total of sixteen hundred dollars for the purchase of equipment; the school provided the studio facilities.

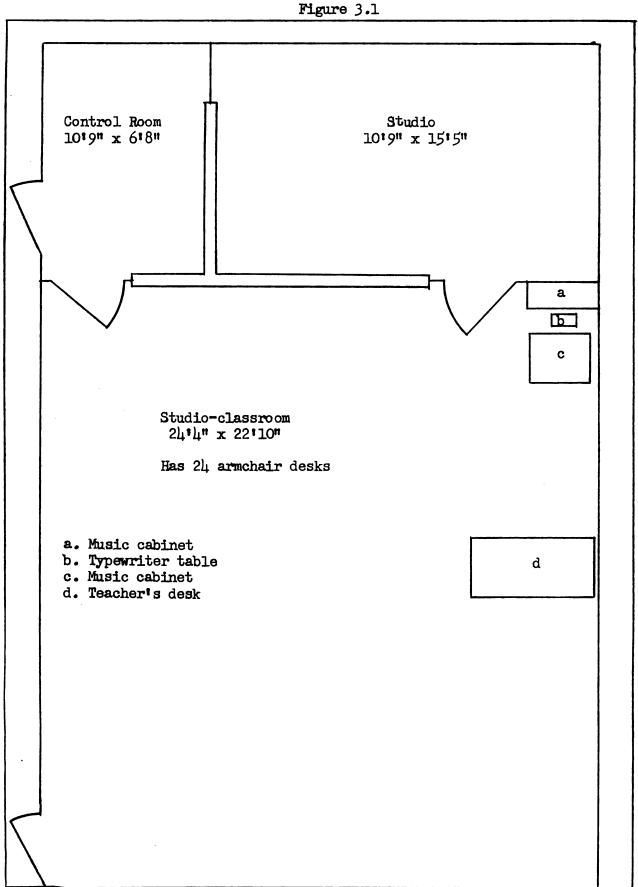
With this money, a General Electric ten-wett transmitter was purchased from Duquesne University; additional war-surplus materials and a Magnesord tope recorder were purchased. Student and adult members of the local emateur radio club constructed, wired, and installed (1) a console with two turntables, (2) two tape recorders, and (3) two remote lines, one to the high school gymnasium, and the other to the athletic field. A tower and antenna were erected on top of the high school building which put the antenna ninety-eight feet above ground level.

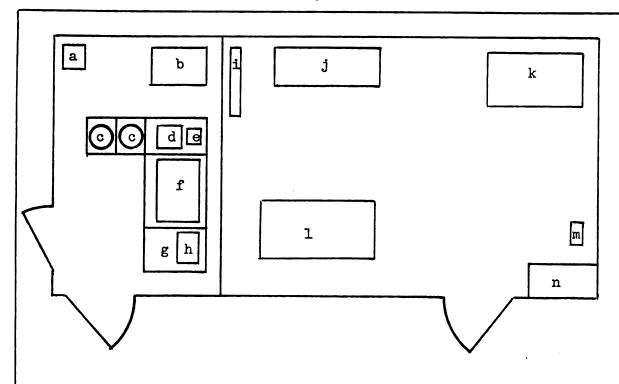
The school converted the speech class room, 2h by 33 feet, into two small accustically treated studies (11×16 feet and 11×8 feet); each had studie windows on two sides (see Figure 3.1 and 3.2). These windows

²⁰th. Earl Lemme, now principal of the sit. Summed High School, Indiana.

linumeens University planned to go to 250 watts power.

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- a. Tool cabinet
- b. G. E. Ten-watt Transmitter
- c. Turntables and cabinets
- d. Magnecord tape recorder
- e. Patching box system
- f. Altec 8-input console
- g. Director's table
- h. Eko tape recorder
- i. Tape library cabinet
- j. Small piano
- k. Sound wagon
- 1. News-interview table
- m. Typewriter table
- n. Music cabinet

provided a view into the Larger studio or classroom (now 2h x 22 feet) and into each other. Access was provided to both saulter studios from the larger room but not between each other. The smallest and the large est studios had access to the hallway.

A masher of high school clubs combined efforts and contributions which made possible the purchase of the Capital Music Library from the local commercial station when it changed to a Thesaurus library. A local civic organization gave an annual subscription to the Capital classical library for five years. The student body contributed popular records. From other miscellaneous sources plus these named, the station has acquisitated a library of about two thousand records.

On September 1, 1950, WESH Fit went on the air as the sixth terrest station in the United States to be cannot by a public school system; the first broadcast was a "play-by-play" description of a high school foot-ball mans by high school snammeers.

The school year 1919-57 was spent in planning and preparing for station operation to be integrated into the high school program and into a speech teacher's day of teaching.

The first senester the station operated one hour a day; the second senester, two hours; the second year the station went to four hours of

Albany, Indiana; WWAS, Muntington, Indiana; Koan, Oceanside, California; Llon, Long Beach, California; WWAS, Springfield, Massachmeetts, and WKN, Kem Castle, Indiana. As of the end of 1957, there were six licensed terment stations in Indiana camed by public schools. This is more than any other state has licensed.

¹² The station identification used was "WESH, Your schools in New Castle, the station owned and operated by and for the boys and girls of the public schools."

daily broadcasting. It was able to do this because it had joined the KARR tape network which provided the station members with tape recorded programs for in-school use and scult informational listening. The following year the station broadcast five hours daily. The teacher never taught less than half a day of speech classes. Two regular radio staff classes were affered. One would begin the day's operations the other would close and prepare for the next day. For the hours in between a skeleton staff of advanced students maintained station operations while the teacher was busy teaching in the largest of the three room studies where she could maintain a visual supervision over the station. This skeleton staff was composed of an operator and one or two amounters.

Through the planning stages and the initial operation period, members of the local commercial station staff were ecoperative in providing technical assistance and staff organization "know-how." The school public relations programs continued to be broadcast weekly after the school station went on the air. Arrangements were made with the commercial station for the school station to record the programs from the air and serbroadcast them the following day. The commercial staff was also helpful in getting a sports amounting team ready.

Although all other school station staff positions required one sewester of speech and one of radio course work as a prerequisite, the sports amounting work was open to any boy who wished to try out and, if accepted, who would agree to continue a program of in-service training. As many as twelve boys might have duty assignments during one game. No credit was granted for this work.

Also the beginning radio class paranmal because the producers for a dealy high school news and weekly eleped progress which was broadcast by sound system to the student body and simultaneously broadcast by Ki radio to the community at large. This required the cooperation of the radio station class and the beginning radio class.

After two years of operation with non-broadcast equipment, the scient purchased about \$2000 worth of broadcast equipment. This was installed in the summer of 10000 the studio was properly wired at this time. As 8-input Alter console, a Magneourd tape recorder, two Make-o-cut turntables with Grey arms, and four addrophones were purchased. Now the local station would accept any progress the school station recorded and sent to them for broadcast. Conscioually they would ask some service of the school station or staff, such as the use of a tape recorder, or the loan of a boy to accompany a local staff can on a remote assignment, or a girl to essist with some commortial writing or amouncing work, or even the use of a complete progress for fill-in service.

In the spring of 1955, just at the close of school, a high wind blow down the entenns and tower structure. It was never replaced.

A change of administration during the previous two years had brought a change in school philosophy and policy. It was felt that the station operation was too expensive and also that classroom space and teacher time were needed on a full-time basis.

Mar. Joe A. Craw, now decembed, was superintendent.

¹⁸The last year, 1951-55, of operation cost 4513.81. Thros big items of expense were the cost of the KALD network, which at that the was 4250.00 and the telephone like observes for home basketball games which was \$77.00. Postage for returning MAIB, Furdue University

The license was removed in August 1955; at that time it was not yet determined whether the enterms would be replaced. The ownership of the station was changed from the city schools to the high schools this change put the station under the principal's supervision.

In September, 1958, the school moved into new quarters, which means that a change in the license would be necessitated anyway; so it was decided to allow the license to empire. Only temporary quarters for the speech and radio work are available in the presently-finished buildings; these areas will be permanently located in the auditorium. That is the last building scheduled to be built on the new compus; construction is to be completed about 1960. Then it will be decided whether the school will return to FM radio station operation. There is some possibility of a minimum amount of closed-circuit television work. Also, it is hoped that the Huncie-Ball State Teachers College UEF non-commercial allocation may be taken up by that time.

In summary, broadcasting activities entered New Costle high school in 1938 when the central sound system was installed. The speech toacher was given full responsibility for its use. There followed an experimental period of about two years which resulted in a change in the facilities and the beginning of what was to be a radio class.

[&]quot;School of the Air" and Indiana University "School of the Sky" tapes cost t85 46. No large item of equipment was purchased this year.

The year previous, a tape library was established with the purchase of 124 rolls of tape at a cost of 4403.71. Football games were broadcast in addition to the basketball games. The year's operating expenses were 4993.15.

The predicted cost of operation for the year 1955-56 was \$592.00.

By 1913, a class was established and a definite routine of broadcasting daily programs into the entire high school, in lieu of regular assembly programs, was established.

Between 1943 and 1947, there were four changes either in facilities or in routine of daily activities or in the class content.

After 1917, there were definite efforts unds to improve and enrich the radio course content; and major changes were unde in the facilities. By 1919, planning was begin for the addition of a terrentt Fi noncountrial station. This station wont on the air in 1950 with non-broadcast equipment and in regular studio facilities. In 1952, regular broadcast equipment was purchasely the broadcast schedule wont to five hours a day. This status continued until spring, 1955, when wind blew down the automa, which was never replaced. However, the license was maintained until August, 1958.

Development of Chisatives and the Course of Study

The development of the course of study and its objectives follows closely the development of the facilities. As facilities were expended, now ideas presented themselves. These, in turn, required further changes in facilities. This chain of events was responsible for the development of the facilities and the course of study.

At first, there was no actual course of study followed; the work done in broadcasting was simply a program of activities planned to meet the needs of the sound system. This work was done by students selected from the advanced or second semester speech class. They operated as a

workshop group; several students doing different tasks but all working toward a cosmon goal. They began as an undeilled group in broadcasting and learned "on the job."

This work became a part of and an addition to the regular work of the speech classe. Usually speech classes are focused on projects planned in sequence to develop a range of skills; however, the desands of the sound system required that every project be so planned that it would go "on the air." In other words, there was no period for practice, no time for growth in skill, or for the establishment of good work and speech habits.

Consequently, the teacher because concerned that students adget be performing before they were ready; the concern was that they adget be learning too repidly and that they adget not be establishing good foundations or basic habits of writing, speaking, and broadcasting siills.

The sound system was installed during the school year, 1938-39, but very little use was made of it that year. Systematic broadcasting was begun in 1939; those programs continued to be developed and elaborated until 1942. By that time, the programs reviewed earlier had a definite form and content pattern.

At first, students the prepared, produced and acted in this program were recruited mainly from the advanced speech classes. The first course to include radio broadcasting skills was offered in the school year lyhl-h2; it offered one full credit per semester. Its specific purpose was to prepare students to perform the duties demended by the sound

system and to give the students practical writing and speaking experi-

As the teacher became more skilled, the work became more instructive and less rehearsal-performance type of class work.

In 19h2-h3, there was another change of principals but the policy and philosophy established for the operation of the sound system and the offering of a radio class continued.

Between 19h3 and 19h7 there was little change in the procedures regarding either the sound system or the radio class. The principal became superintendents a new principal took over the high school.

In 1947, the speech teacher returned to her former position as director of the speech department and radio activities.

By 19h9, with the svailable textbook and reference materials and those from the Office of Education, plus suggestions from the local commercial station staff, the course of study began to include more submittential content and a more systematic organization was employed. Such subjects as "writing for the listener," "program format," "timing the broadcast program," and "the use of sound and music in dramatic sequences"

¹⁶The new principal was Mr. J. R. Crow, now deceased.

²⁷ This principal was Mr. E. S. Castor.

Let's Broadcast, 1918, by Everett Brain were the textbooks used by the class. For reference and background information the teacher used such books as Mar Wiley's Radio Writing: Judith Waller's Radio, the Fifth Estates Albert Grove's Radio Production Directing and Professional Radio Writing: Ben Henneke's The Radio Amounter's Handbooks the Evalevitch brothers's Radio Draws Productions Baskett Mosse's Radio Mass Handbooks Jermie Callabon's Radio Morkshop for Children.

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were included in the study. Some study of radio theory was also integrated into the course. This study was under the supervision of the principal, a man who was vitally interested in the radio class and the planning for the station. He saw the class, the daily now programs, the station (as had his predecessors) as epportunities for learning in the real situation and for practical purposes. Unlike the English student's these which is read only by the teacher, these students' work was being heard and evaluated by the entire school, which included their friends and teachers.

Figh the savent of the station, rajor changes took place within the speech program. Instead of the basic course leading only to the public speeking course, the basic course was broadened to serve as a furthe-entels course leading to public speeking, radio, and/or dramatics. Freviously, the dramatics courses were separate entities. The dramatics and speech courses (along with the journalism classes) were elective courses within the framework of the English department and there was little coordination among them. This save resulted in the dramatics, speech, and radio work being coordinated; it was a developmental program which gave the student a wider experience in the general speech area, and an improved sequence of course content. A department of speech was established. The basic furthementals course included values and diction improvement, pentodine,

formerly a science teacher and buys counsellor, a newy-trained radioradar nan, and a member of the local "nam" radio club. He is now principal of the high school at its. Sugart, Indiana.

story telling, simple speech waking. One of three subsequent courses followed: Dramatics I and II, hadio I and II, or Public Speaking.

The fundamentals course might be substituted for the 100 English courses all the following courses were elective and gave only half credit. During registration with the deems, the students were urged to plan for a year's work if they elected to take the substitute fundamentals speech course for English 100.

Radio I class was a fundamental class which included station operation, handling the news, writing continuity (for music, discussion, interview shows), and sicrophone techniques. It was designed to train for the station staff, to give an understanding of radio skills, and to develop some standards of appreciation and evaluation.

Students in Radio II were assigned to station work. Each student who planned to apply for this class spent the first senseter becoming as proficient as he could at a number of tasks, such as board operation, announcing, writing simple continuity, program planning, and directing. As a staff member he would have to perform many of these tasks, but he could apply for a specific assignment. If he received a position on the staff, he was maked to a specific job; however, he would be called on to perform other jobs too. The work of the traffic manager, program director, and music librarian had to be learned on the job. This class might be repeated as often as the student's schedule and grades would pormit. All students had to carry a C or above average; only one "half credit" could count towards graduation.

The technical jobs of maintenance and engineering were under the supervision of the principal and a science teacher. The science teacher was a second-class engineer; the speech teacher became a third-class ticket holder. Usually one or two boys held third-class tickets.

Since 1955, the end of station operation, interest in radio classes has continued. Some students hope the station will return to the air. But with station operation no longer a goal, there have been changes in the course of study.

Radio I has become less oriented towards station staff work and has become a better foundations course. Here exphasis upon writing and speaking techniques is given. Here practice experience in short microphone projects in the name, interview, ad lib, discussion skills is permitted. Added to the course has been a unit on the economic and sociological importance of the industry, a unit on history of the industry, and a unit on television. Radio II, offered about every third senseter when enrollment permits, includes dramatic production, soting, and greative writing.

several experiences since 1952, plus the instructive help from members of the local commercial station staff and radio teachers in the Indianapolis high schools, have added to the teacher's skill and enriched the source centent. In the summer of 1952, the teacher was a member of the NAES School Broadcast Saminar. The Northmestern-NDC Radio-Television Workshop was attended in the summer of 1953; the Michigan State University Adult Morkshop at MARTY was attended in 1954. During the summers of 1955-56-57, work in radio and television was taken at Michigan State

University in addition to teaching in the Radio-Television division of the High School Institute.

In summary, the development of the present course of study in radio in the New Castle High School began in 1939 with members of the speech classes performing extra duty and serving as a staff for the daily sound system announcements. As the announcements grew into a program which had some form and some reason for existing other than giving the announcements, the demands on the speech class warranted the creation of a special Radio class. This class was first offered in 1941 and gave one full credit. It has been offered every squeeter since them.

At first, this class served as a means to meet the special needs of the sound system. By 19h9, a course of study was established and a text book adopted. This course of study included writing for the listener, program formst, timing, and use of sound and music. When the school sequired a ten-matt Fi noncommercial station, two courses were established. Radio I was definitely crimited towards station operations it also attempted to give some basis fundamentals. Radio II provided for membership on the station staff.

When the station occased to operate in 1955, after the wind blow down the antenna and tower, the courses underwent another basic change. Radio I was less station operation oriented; sore exphasis on skills and techniques was given; units on the industry's history, economics, and sociological effects were added. Radio II became a production, acting, and writing course.

It is apparent that the course has developed along the lines of current school media; the work of the course has been largely a service to the school. As those needs changed, the objectives changed; and in turn, the content of the course changed.

Chiechives of the Course

This course of study takes cognisance of the fact that any subject matter in the school curriculum must meet the challengs of modern schroational ideas, that it must undertake the development of the micle child using the subject matter as a tool, that it must train his intellect, and that it must fit him for citiganship in a democracy.

Before presenting the objectives of this course of study, it must be recalled that the <u>Introduction</u> to this investigation set forth some criteria which this course should meet. In addition, a review of the general objectives of secondary education should be presented here so that it may be seen that the objectives of this course of study are within the framework of the general objectives of secondary education.

After investigating the samy sate of objectives—both general for all educational levels and specific for secondary schools, Crow and Crow draw four conclusions that are applicable to the high school. They are set forth here for general reference purposess

^{*}OThe course is presented in outline form in the Appendix.

- The formulation of educational objectives has progressed from a more or less vague statement of a broad all-encompassing general objective such as the development of certain personal, and social competence to long lists of specific objectives aimed at covering the major areas of human activities and intervalationships.
- 2. The more recently stated objectives emphasize the need of an education that stresses both personal and social values. The individual should be provided with educational opportunities that will make it possible for him to achieve a personally satisfying mode of living. At the same time, he must be guided toward becoming a constructively contributing member of his society.
- 3. Hadern educational objectives appear to include some recognition of the fact that individuals differ in their capacity to achieve as well as in their degree of interest in the things they wish to achieve. Consequently, statement of objectives stress:

 (1) these areas within youth's power to achieve (general schreation), and (2) those fields of differentiated activity that are in harmony with individual interests (specialized education).
- h. The development of constructive citizenship has long been a major educational objective. The commotation of that term, citizenship, has gradually taken on broader significance until, at present, squestional emphasis is placed upon the achievement of the ideal of world citizenship. Thereby, the individual will be led to recognize himself as an active masher of the entire human family with personal obligations not only to this immediate social group, but also to those who live in remote concerns of the world.²¹

With a general frame of reference concerning the general objectives of secondary education, it seems advisable to proceed to the function of objectives; it seems advisable to relate the objectives of a course of study to the course content and organization.

Objectives are guides or points of destination. If they actually serve as objectives, they become guides to the learning situation.

^{**}Lester D. Grow and Alice Grow, Bigh School Education. (New York: Odyssey Press, 1951), pp. 63-64.

Usually objectives are conceived, says Goetting, in terms of two factors: the institutions which foster them and the general activities of life.

Thus, according to Goetting, before the general aims of secondary education can function:

They must be stated in such patterns of learning, and the subjects offered in the secondary school. . . . While teachers in the class-room must be conscious of the institutions and general life activities, they must also understand that subjective changes in pupils in terms of knowledge, appreciation, and skills will contribute to the lives of pupils for their participation in the major institutions of life. They must also know the possibilities of each subject for making contributions toward each objective of secondary education. Decisions must be made as to what phases or aspects of each objective may reasonably be undertaken through activities considered appropriate for each subject. Se

Planning a course of study not only requires the selection of a set of objectives, but also the selection of content materials and activities.

Bent and Kronemberg define a course of study and them set forth mine points which they maintain are valid bases for selecting curricular content. First, they define a course of study as:

. . . en arrangement of detailed materials and activities selected from some broad field or fields of subject matter and arranged into topics, units, or lessons, for instructional purposes. To differentiate between a course of study and subject, mathematics is a subject, Algebra I is a course of study; science is a subject, but chamistry is a course of study. So

The valid bases which Bent and Kronenberg offer for the selection of curricular content are these:

Prentice-Hall, Inc., 1942), p. 119.

Secondary Education. (New York: McGrew-Hill Book Company, Inc., 1955), p. 18h.

- 1. A philosophy of education
- 2. Social effectiveness and stability
- 3. Passing on cultural heritage
- 4. Pundamental needs of the students
- 5. Utility or quality within the subject to make it practical
- 6. Individual social efficiency
- 7. Pupil interests
- 8. Vocational efficiency
- 9. Major autivities of life. 94

Energy points seem self-emplanatory; but they offer three conditioning factors for point nine (Vocational efficiency). First, materials offered in the direction of vocational efficiency should have social and prevocational value; secondly, these materials should be selected on a basis of a survey of such opportunities in the local community; third, they should be congrues with the pupils; attitudes and interests at the time.

A course of study is designed for the purpose of instruction; instruction suggests that learning is a desirable result.

There are two points of view which may be taken concerning learning. One point of view holds that learning is a process or activity; the other believes learning to be a product or a result. These two points of view are not sudically opposed; the second point of view aerely labels the outcome of the first point of view. In other words, the product is a name for the outcome of the activity acquired. Coeffing suggests that these two points of view sust be kept in sind when planning and directing pupil-learning activities; they present two questions to be answered.

. . . what changes in pupils are desired, and second, what pupil activities may be considered the most appropriate affecting these changes.

Ment and Kronenberg, and cit., pp. 189-193.

The outcomes of learning are usually designated by the activities thich the individual is able to perform. For this reason explants is placed upon such concepts as behavior, responses, activities, conduct, adaptations, and adjustments. What seems to be learned is ways of behaving. Learning, then, results in the acquisition of responses. Some of these responses are relatively fixed; and some are flexible. It some convenient to summarize learning outcomes in a threshold chassification as follows: suturation responses, intellectual changes, and excitonalized conduct. ***

Thus far, in the chapter, an examination has been made of (1) this general objectives of secondary education, (2) the function of a set of objectives as related to a course of study, and (3) general statements concerning the learning process; attention is now turned to the objectives of the specific course of broadcasting presented in this study.

The relevant objectives in the area of broadcasting may be classified as general and specific. The general size are those kept upported in mind during the entire course of study and which meet the general requirements of that level of education; the specific goals are those that most the meets of the subject within any one unit, the needs of the schools, and the student body.

A statement of the general objectives of this particular course of study in broadcasting sets forth these aims:

- 1. To provide for the personal and social growth of the individual student.
- 2. To provide for the varying especities and interests.
- 3. To develop a set of behavioral responses which will enable the student to become a marker of society and accept the personal obligations to that society.

Belloetting, op. cit., pp. 3-4.

The specific goals which provide for the personal and social growth, the development of desirable citizens, and which meet the needs of the subject, the school, and the students are these:

- To provide the student with a set of experiences that will develop his personality and enhance his own personal worth to himself.
- 2. To continue his development of language skills.
- 3. To widen the horizon of his interests and understanding.
- h. To provide an opportunity for him to survey the vocational opportunities and determine his fitness and his interests in a career in the broadcasting field.
- 5. To provide the student with an opportunity to acquire some broadcasting skills and to gain some comprehension of the industry.

Training in broadcasting skills and studying the industry is both personal and social; inherent within the nature of this study are the avenues for accomplishing both personal and social growth.

Probably most school administrators would agree that, of all the possible educational alms, the most elusive is that of developing the child's personality. What opportunities and guidence can schools provide by which children can learn to avoid or correct emotional maladjustments, and learn to live more happily with themselves and their fellows? How can we actually teach a child to become a more effective person. One step toward the accomplishment of this goal is the development of a well-conceived program in oral communication. 30

Big Bulletin of the National Association of Secondary-School Principals.

KHAVIII (January, 1954), p. 30.

Although the radio course is not a communications or speech course, it deals with the communication processes; therefore this statement is applicable.

This particular course of study in broadcasting is a study designed to start the student toward (1) sequiring some broadcasting skills, which include specifing and writing skills, and (2) some comprehension of the industry. In order to accomplish those grals, it size to provide the student with a set of experiences that will develop his personality and embance his can personal worth to bisself.

First, the experience of working in the group where each individual performs a different task but where all are working together towards a common end-result, the affective broadcast program, provides each student an opportunity to evaluate himself. He learns to accept his limitations, to work within the remme of his cam shilities. He also recognises his essets; and the circumstances surrounding the group-effort require that he utilize those assets in such a way that the group's performance produces satisfaction. Secondly, this group experience gives the student an opportunity to establish himself with his peers and with his own generation through the use of his shillities. Third, the group experience puts the student on his own, helps him to develop a feeling of independences he is put in a situation where he must make decisions, take responsibility for his actions. It sharpens his powers of observation so that he can communicate effectively; it develops his understanding of people ashere-greates characters and situations through his work with drawn. Another value tiet accrues from working in the group, which is

a goal, is the catchlishment of group attitudes and group responsibilities, which is a properation for family and community life. A fifth evenue which this course in redic provides for developing and enhancing personal worth is to make the student responsible for what he writes, for what he says, and for what he does. This is a part of the broadessting activity. As a communicator this same of responsibility for what he says and does is important to him and his listener; as a human being this sense of responsibility is important to him andfor his community. These five provisions inherent within the broadcasting activity stimulate responses within the student and make it possible for him to develop his personal and social self.

The communicative process is a task which involves making sense out of symbols and utilizing their meaning for personal and social profit. Obviously this is an objective of all education, but in this course of study it is a primary goal. Work in broadcasting has inherent possibilities for continuing the student's development of language skills and the ecommication processes. The broadcasting makin use language as a tool, both oral and written; language must be heard and must be read silently and orally. The communication of ideas for information and for entermination is its basic commodity. By writing various kinds of broadcast copy, by reading his can copy and that written by others, the student leases to master the skills of writing, reading, and speaking. Morting with broadcast copy, the student develops an appreciation for content; he develops a skill for critical analysis of content; he builds habits and tastes for selecting his can personal listening, vissing, and reading. The ent-result is an integration of all the communication skills.

The third general objective for this course is the broadcast the student's interests and knowledge. The centent of the broadcast program requires the synthesis of various subject matter arous; investigation, evaluation and coordination are followed by preparation and delivery of the copy. This process leads the student into now fields of knowledge where more than a more acquaintance is required. The result is the discovery of new knowledge, and now interests are developed.

It is an accepted fact the high school years are those in which the student is making self-inventories of his own shilities and interests and searching for possible vocations and careers. Each course in the high school curriculum provides at locat a minima of vocational information in a particular subject area; some courses are designed to direct the student in a thorough vocations study. Broadcasting courses lend themselves to such study without being primarily oriented tempois vocational study. This particular course attempts to provide opportunities and experiences so that the student may gain a concept of the work in the professional field of broadcasting; it allows him to survey the opportunities and evaluate his own capabilities. It attempts to build a foundation of skills and to give a general comprehension of the industry on which subsequent courses can be built should the student choose such a career.

The final general objective is less personal and social in its intent. This course attempts to present a comprehension of the industry and its place in our society. A study of its history reveals how the

ing of how the business of broadcasting operates brings to the student an embraness of its biguess, its power over people's lives; reasons for and ways to control this industry then become comprehensible studies for the high school student.

These general objectives of the course in radio are kept in mind during the study of each unit and in presenting the analyzements and projects. The sore specific goals are concribed in the presentation of each unit.

Electrical objectives and the values resulting from curricular work in broadcasting have been reviewed. Nost of those statements were made by broadcasting educators. Once and draw are educators and administrators, but not broadcastars. They set forth a list of objectives for radio broadcasting activity in the curriculum. It is interesting to expert their list with the ones presented for the course of study in this investigation.

Grow and Grow indicate that "radio broadcasting in the curriculum should attempt to achieve at least five main objectives:

- 1. Eroad fields of subject exter should be integrated for the learner.
- 2. Cultural values should be experienced by the learner.
- 3. Utilitarian values should be included for vecationally sinded learners.
- 4. Teaching techniques should be based on individual needs and capacities.
- 5. Effectiveness of redio as a medium of learning should be evaluated carefully. ***

S7Crow and Crow, on. cit., p. 273.

Attention is now turned to some of the conditioning factors operative upon the design of the course of study to be presented. It should be noted that samy of these factors are characteristics peculiar to the local situation. This was pointed out earlier as being one of the reasons that courses now offered have few consonalities.

Several conditioning factors have guided this course into its present design. The development of facilities, described earlier in this study, have been a asjor influence. The development of these facilities and the course structure and objectives have been absort parallel. As facilities were added, alterations in the course followed which, in turn, fostered new ideas which necessitated changes in the facilities.

Another conditioning factor was the operation of the station.

Station staff membership was a goal for most students in Radio I; the
course was so oriented that it trained for staff membership.

Since the end of station operation, the course has become more economic. Sometime on radio theory, history of broadcasting, and a study of the sociological, political, and economic importance of the industry have been added. A second secretar, replacing the station operation course, offered frequently, extends the student's experiences and appreciation of broadcasting skills and broadcasting skills and broadcast of the industry.

Another contributing influence on the design of the course has been the several principals who encouraged the enrichment of courses and who provided guidance and opportunities for the offering of such elective courses.

Another conditioning factor is the use of student help which this particular school paraits, such as laboratory and library assistants. It is the policy to permit a boy who has taken Radio I to serve as a "laboratory assistant" with a subsequent hadio I class. The teacher rakes the coloction on the following basis: (1) the boy has a particular interest in the operational and usintenance phases of radio. (2) his grades warrant his taking a schedule which has no study hall period. He served as "chief operator," is responsible for the equipment, essists the teacher with minor teaching duties, and serves without credit. Although he has no study hell portled, there are many days when the class is not occupied with studio projects; these days offer study opportunition. His duties as clief operator are to keep equipment in condition, to snot trable before it arises and causes delays, to keep the audiovisual director (who is responsible for the equipment) informed. He performs what maintenance he can: smeetimes boys on duty have been very comeble. Some have designed and built sublitional pieces of equipment that have facilitated the operations procedures. This assignment provides a boy an opportunity to loarn, to create, to serve his school.

This course of study in radio broadcasting is designed for students in the upper levels, the cloventh and twelfth grades of high school who have had some course work in speech. Students may also be admitted to the source by recommendation of another teacher or the deems on the basis of writing or specking ability, schemes or journalistic interest; or they may be admitted after an ambition and a conference with the radio togics.

Each unit of study has a logical relationship to the preceding and following units; but almost any unit can become an entity in itself or can be adapted to some other unit to meet current needs of the students and the school. However, as presented here, this is the usual sequence for the course.

The course is designed for a class enrollment of not over twenty—
five students. An enrollment of eighteen to twenty—two is more desirable;
but if necessary because of demands of current school populations, as
many as twenty—eight or thirty students may be accommodated. The difference in since of the classes bear differences in results for the
individual student; the smaller the class, the more performing experiences
he has and less time is spent in suditioning another's work.

Since a prerequisite for this course in radio broadcasting is course work in speech, it is assumed that the students have a background of some public speaking, discussion, voice and diction improvement, conversational and telephone and business interview techniques, oral reading, and story talling. Obviously, if there has been only one semester, students will not be skilled in all those areas. A survey taken early in the semester will reveal the backgrounds of the class; on this basis, the course work in this study is nearly tailored each semester.

Redio Is A Course of Study

The foregoing materials provide a detailed description of the various factors which have contributed to the creation and development of a radio course in the New Castle, Indiana High School. Following is a unit-by-unit

description of that one credit senorter course as it was conducted during the 1957-1958 school year.

Unit Is Introduction

This first unit of study usually takes about two weeks. It is a period during which the student is oriented to the following factors:

- 1. The communication process
- 2. The broadcasting industry as "big business"
- 3. The workslyp type of activity.

He is also introduced to:

- 1. The equipment
- The studio procedures for handling this equipment.
 The work is planned in this unit to condition the students
 - 1. To the kind of activity to be expected
 - 2. To the responsibility placed on him for helping to produce a group product
 - 3. To the opportunities for discovering his limitations and assets and to develop those assets
 - h. To the opportunity for surveying possible vocational fields
 - 5. To the group process of setting standards and goals.

The student is immediately oriented to the communication processes.

Because of his speech background, he is already sware of *... the four successive phases of any act of communication: In what channels do communications take place? Who communicates? What is communicated?

Who is affected by the communication and how?" The radio broadcasting process is similar; but the transmission, the transportation, and the reception of the idea (andio and wideo) are electronically accomplished and the sender and the receiver do not see each other.

The next step is to trace with the students, step by step, the progress of the idea from its inception, probably in the mind of the writer, to the person receiving the idea, usually in his home. It is helpful if the student comprehends the overall broadcast process first; then each step can be studied in details

- 1. Idea conceived
- 2. Idea converted into broadcast script
- 3. Script produced in <u>studios</u> and broadcast process begins via misrophones
- h. Broadcast program passes through the control rooms ganzola to transmitter
- 5. Broadcast program transactted from antenna (AM or Fil)
- 6. Broadcast program received by console in home
- 7. Broadcast program received by person from console.

Since this is besically a redic course, the television process is not introduced until the end of the course (Units VIII and II) when a

Druce L. Smith, Earold D. Lasswell, and Ralph D. Cessy, Propaganta, Communication, and Public Coinion, (Princeton, Princeton University Press, 1946), p. 3.

⁽New York: Appleton-Century-Crofts, Inc., 1950), pp. 188-204.

brief study of television is introduced.

This introduction to the broadcast process is not technical; it is presented briefly by means of pictures and sketches on the blackboard so that the student gets an overall view.

Then, primarily by means of discussion and some reference resuling, the student is helped to organize the information that he has collected shout broadcasting in particular and mass communications in general.

The history of communications and broadcasting seems to interest the students; they are usually willing and eager to do some research efter this initial impetus. The average student tends to regard radio and television primarily as modia of entertainment. This study then, is directed towards broadcaing that posspective. Once this is accomplished, the student begins to comprehend broadcasting as a business which has a product to sall, a product that must be advertised. Advertising by broadcasting and broadcasting channel assignments are factors which concern society; and therefore government regulation becomes necessary. Some statistics are given at this point as evidence of these facts. By now, the stage is set; the student's interest is aroused. Broadcasting is now something more than looking or sounding glammous at a adcrophone, a commole and its turntables, or before a camera.

At this point, a first assignment is made; it is a research project in this broad field of history and significance of the industry. The student is given a choice of subjects. The projects are presented in the form of "mike talks" and group discussions later. In order to orient the student to the workshop type of activity,
the classroom becomes a studio when Radio Class meets. It is called
"the studio"; and on project days, laboratory days, the class is called
the staff. A brief discussion usually helps the student to become group
conscious, to recognize what is involved in group effort. The student
is directed towards developing five basic qualities which are essential
to good studio work; they are:

- 1. Consideration of others
- 2. Punctuality
- 3. Accuracy
- 4. Acceptance of responsibility
- 5. Initiative

This is teaching cooperation and working together for a common goal.

When this spirit is captured, students tend to work harder than usual;
they demonstrate imagination and impermity.

Just as an attempt was made to give the overall picture of the broadcast process, an attempt is made to give a similar picture of the classroom as a station. The classroom is a "station." Formerly a large (approximately 24 feet by 33 feet) room, it is now partitioned into three rooms or studies which house the accountments of any station, such as typewriters, file cabinets, record shelves, console, transmitter, sicrophomes, and tops recorders. The students are introduced to the station and its equipment.

This is done as though it were a tour of a real station. The technical and the vermacular name of each piece of equipment is given:

the cost and the general function are also given. The operation of the piece is also demonstrated. The reason for this is that the student must know the technical masse of equipment in order to read about such equipment; but he needs to know the vernacular, if he is to undorstend the professionals in the field. The sost of the equipment is made known to the student as a kind of safety measure to impress the need for careful handling of equipment. The student is more contious if he realises that he holds a twenty dollar cartridge or a ninety dollar aderophone in his hand, or if he is operating a console valued at two thousand dollars. On this tour, the student becomes acquainted with the smaller items of equipment, such as the clock with its sweep hand, and the various kinds of records; he sees tope recorders operated. This tour may take two days. It is done carefully and in some detail; the students are required to take notes.

Next the class is divided into small groups; each group is set to work manipulating a piece of equipment. This requires an assistant to expervise each group. Students, usually boys, are recruited from former radio classes to serve for about two days for this assignment. During this period, the members of the class, working in small groups, are given an opportunity to begin to master various pieces of equipment. They do not master it, but the see of the task or of the equipment disappears. Groups are rotated about every fifteen or twenty minutes. Groups work at the console, at each of the tape recorders, at handling the various kinds of records and their estalogs, at managing the microphones and eachles.

Sometimes, a tour of the local commercial station is taken at this point. Occasionally, a tour to nearby university studies is planned. If the tour is not taken at this point, it will be later. Defore the tour, the students are alerted as to what to expect and what to look for, according to what station the class is visiting and at what point the class is in the semester's work. After the tour, there is a review and a question and answer period.

Scortimes the class is introduced to the equipment and studio procedures in one process.

Recedesting is both a science and an art. It is a science because it demands exactness; it is an art because it requires imagination and talent and paraits creativity. So science and creativity must work together. There is a way to do this, but it requires the mastery of certain routines or established studio procedures, such as studio signals, proper script and sicrophone techniques, proper handling of equipment. There is the right way to do a job and the careless way. Either will get the job done, but there is a difference in the quality of the final product. This concept is hald before the students all the time.

Practicing the simple task of handling several pages of a script, at first, seems to them a waste of time. But later when the class is doing a complicated show, the studio is created, there are many pages in the script, the director is throwing many cues, and timing is essential; the students then realize the importance of the simple, small tasks they once thought were a waste of time.

Recognizing studio signals must become second nature. These are given to the students as they are needed in the day-by-day projects. Each time a new signal is used, time is taken for the student to put it into his motebook. About mid-semmeter, a little time is usually taken to collect and synthesize all the signals learned to date; a completed list is then made.

Masping sight lines to the control room clear, keeping eye contact with the director, keeping traffic lance clear to and from the addrosphenes, reading the clocks are more of these small, simple tasks that must become second nature to the student. These are introduced on the tour; the student is urged to practice them wherever and whenever possible.

Six to eight days have passed. Only one assignment has been given; no grades have been taken. No grades are taken until after the first studio projects, which is about the third week.

Ene first studio projecte are simple, five-winute, production team
semignments. The script is very simple but it requires an operator at
the console using one sicrophone and one record. It is a five-winute
script which means that the personnel of the team must watch the clock.
A five-winute script permits several teams to perform in one class period.
The script is properly typed in regular broadcast script format; this
is their first introduction to a script. A team varies in membership
according to the size and media of the class. An operator and an
amouncer are the two besis assignments. If the class is large, a
director and a second amouncer may be saided.

In order to give the class some idea as to the prossures that traffin and time create in the broadcast situation, a schedule is posted; it shows rehousal the and air time for each team. Before that schedule goes into affect, a day or two are possibled for team practice sessions, called "day rehearsals." During this ported, the chief operator or the teacher, takes small groups of essigned operators to the central room where individual instruction, supervision, and time are given for getting acquainted with the console operation.

If the class is small, positions are retated so that students have the experience of being operators and amounters. If the class is rather week in grasping the situation, the together will serve as director.

Students also acquire apprience by serving on the staff for the daily ness broadcast. This class is responsible for collecting and propering a daily radio-type program of school ness which is broadcast via the school's central sound system. This procedure was explained earlier in the review of the development of the facilities and the course; when the school's station was in operation this same program was broadcast simultaneously by Fi radio. The sequence of programs during the week have already been described. The personnel for these productions are taken from this class. An operator, an amounter, and an IC are assigned to duty each week. This duty rotates around the class. Additional duty assignments are made as each program's requirements are discovered. All this daily broadcast duty is in addition to the regular class work; no grande are given. However, a commutary is posted as to quality of work

done after each week's duty. Students frequently request special duty on this surning program, such as permission to plan special programs for approaching days or events. A few minutes at the beginning of each day's class are taken to evaluate the sorning's breadcast.

Tile closes the first unit. About two weeks have been spent; no grades have been taken and the students are so informed. The student now has a broad, general concept of the industry, its size and importance, its operational procedures. The teacher has a view of the class; knows its potential; the future of the course can be charted.

Unda III Simila Techniques

Unit II is called "studio techniques" and includes a variety of activity. Listening projects followed by class discussion are directed towards setting standards for good speaking and reading over the sicrophone. Nork sust begin where the individual students are in their language development. This explains the range of one to three weeks in time alloted, but the six is to spend only two weeks on this unit.

Next, students are introduced to the various kinds of copy that are typical of the broadcast sedia. Marking their scripts for interpretation is a technique they should know. Voice and diction are recorded and smalyzed; and improvement drills are planned. The sequence of these context items varies according to the make-up of the class.

The specific objectives during this unit ere as follows:

- 1. To set standards for adempliane speech (voice and diction)
- 2. To develop a facility of reading various kinds of copy

- 3. To improve voice and diction
- 4. To develop an audience awareness of an unseen audience
- 5. To develop a feeling of teamwork between amounter and operator.

Standards of scooptsbility of voice and diction are set before any strengt is made to analyze each student's speech. Each one must hear what is good in another's speech before he can hear the good and the poor in his man. Therefore, listening in class to good and poor oral performances by recordings and discussing what is heard comes first. Recordings of professional speakers and actors, excerpts from radio and television commercials, draws, and general speech, mixed with recordings of student work kept from previous classes presents a wide range of listening. The students who do not detect the differences become more alast listeners when they discover, in the discussion period, what others in the class

Another season for the wide range of types of oral performance, sealing, speaking, and reading is that this helps the student to discover the differences with which each listener receives each type. Discussion is then directed towards the differences in approach and technique by the performer. This way, the student becomes source of the range of demands the microphone makes upon the performer. He discovers the differences between reading, speaking, esting, and ad libbing.

Emmples of these verious types of copy are then given to the stardente; a series of microphone projects follows. It is good to have the class, or at least a number of the members, read the same copy. This provides an epportunity for the listeners to compare work and to compare their own preparations. But, for variety's sake and in order to insure that each student does his own work, it is necessary to give different pieces of copy within—each estegory. Samples of many kinds of broadent copy may be found in many college radio and speech texts. A list of some of those is included in the "Reference Readings" included in the Appendix. Some of those possible estegories of types of broadcast copy area

- 1. Straight comercial
- 2. Short ness items
- 3. Short sports and woman's items
- 4. Tell a children's short story
- 5. Dialog copy of two people, either a commercial or excerpts
 from movels and plays
- 6. "Mood copy" and "change of pace copy" (dramatic narratives and humorous essays
- 7. Station breaks or identifications coordinated with operators and the blocks
- 8. Hike talks and group discussion (assigned in previous unit)
- 9. Ad libbing

The important fact to remember in this section of the work is to get everyone "on mike" every day, in a series of different types of reading. Discussion is held after several have performed and not after each one. Discussion is pointed towards the big errors, and towards the fact that a student did stumble. These errors are called "fluffs" or "goofs."

The fact that an attempt is made to get many students to perform each

day requires that each piece of copy be short. The first ones should be very short, such as thirty-second commercials. As the class progresses through the types, each piece becomes somewhat longer; this develops materials control.

Oracles are not taken on each round; grades are taken on the first end the last one and are given on the basis of quality. This shows the student the amount of growth, which is what each is striving for. In order to separate in the student's mind, the psychological response to the usual letter grades, figures are used. A range of from one to six (masher one indicates outstanding quality and six, not acceptable) is used. This type of scoring seems to satisfy the student more than the usual letters and actually gives him more information about his work. He failing grades are given if the student makes an attempt.

on the first or second round and again on one of the last rounds, each student is recorded. After all the sidorophone performances are completed, a play-back session is held. Each takes notes on his own performance and on one other student. He writes two critiques, evaluating the quality of voice and diction, the sidorophone performance, and suggesting methods for improvement. A conference is held with each student and plans are unde charting his improvement program. Heaters of the class are arged to come to the studio on their own time and record whenever they wish. A traffic schedule for the use of the studio and equipment is kept; each one may sign whenever the studios are vecent. This also gives each student extra experience with the equipment; but it also means that the chief operator has extended duty.

Another recording and evaluation session is scheduled sometimes later in the semester, when time permits.

At this time, it is determined whether this unit must be expended and additional emphasis put on oral work; if this is to be done, adjustments must be made in the latter part of the course.

During the series of mike performances, a different student operators; this gives a number of students the experience. They are urged to become familiar with the console, to entiripate a performer's actions, to note differences between performers. Ferformers take their directions from the operator who always starts with a closed or "dead" mikes them at five seconds before the sweep hand reaches either the twelve, called "taking it on the up," or five seconds before the sweep hand reaches the six, called "taking it on the down," the operator opens the mike and cues the performer who begins on the "up" or the "down." This teaches the students to be clack conscious.

During this period of mine performances, after a round or two have elapsed, time is taken for instructing the class how to mark their suripts for interpretation. They may have had some of this instruction from their speech classes. Various sots of symbols, taken from phonetics, music, broadcasting, and other fields are given so that once they have studied their copy and have determined points of exphasis, places for speeding up or slowing down, locations for upward or downward inflections, and other voice management, they can mark it. At the time of reading, their interpretation is sided by these symbols.

Unit III: Eriting Techniques or Sirale Continuity

This unit and the next two (the commercial and the news) are not complete entities; after fluidhing those three units, writing and production assignments can be units. The objectives of those three units are to give the student an understanding of, and some experience in, those specific skills related to the writing and delivery of the conversial and the news program. To train him to prepare a script in the proper form, and finally to integrate those skills in the proparation and delivery of a total broadcast program. About a week is usually spent on this unit.

First, the basic elements in the broadcast program are identified and their various possible uses described. The student is made swere of these elements of voice, sound, and music for radio by class listening and identification. Television has the additional elements in the visual characteristics.

Sout, the basis parts of the program, its format, and the types are studied. The program, whether radio or television, has basically the same compositions theme, introduction, body, close, and theme. There is great flacibility in this scheme of parts and sequence. Radio disk jockeys (LJ's) with their long record shows and TV's dramatic shows seem not to follow this scheme; so an attempt is made to beach the student the standard scheme of parts, them to show the flamibility possible where there is imagination. But the student must begin with the standard form first. An attempt is made to point out industry's need for imagination and willingness to experiment with new ideas. Listening-visating easignments assally help students to become some of the scheme and varieties

possible. They also learn, by these listening-viewing projects, how each part falfills its function.

With the same listening-vicking projects, the basic types of shows one be identified and then discussed in class. Shows are classified as the made, the speech, the drawatio, the variety, and the guiz or sudience-participation show. The popular or "top ten" shows are classified; their general purposes and values are discussed in class.

At this point, a study of the broadcast day's schedule is made. Schedules are taken from the newspapers or Thinking. Patterns for the local station's planning and for the more powerful stations in this listening area are studied. Similarities and differences are analyzed; the relationship and the influence of the and more and range of coverage are analyzed.

Sells sponsors buy time and programs because there is an audience which listens to their programs and buys their product. This chain of causer and-effect discussiones is used significant and an emphasis is continued during the study of the commercial and the news in the next units. Reference reading for this section is difficult to find for the high school student, but some are listed in the "Reference Readings" included in this study. It is hoped that the student graspe the significance of the impact of the media upon the sudience and, in turn, the effect the sudience response to the broadcast program has upon the broadcaster's program planning. It is here that the public does have control of what is broadcast. If the few listeness in this course, senester after

sempeter, plus these in similar courses over the nation, remember this lesson then they become abilita and parents, perhaps there will not be the criticism of these media that is heard today.

In this memor, enother colort is make to attain one of those general goals, distributing listening and vissing.

Script techniques are considered in the next section of this unit.

Dreadcesting requires a team of people working together. Each person is a specialist in his job; each job is different. All are working for the same result; all are working with the same elements and familities.

The whole operation centers around a script which holds the idea which the workers are trying to project to a listener or a viewer who voluntarily either receives or refuses the program.

Since so many persons work with the script which instructs them to do so many different tasks and which coordinates all their work, there must be a en mon understanding of the noke-up of that script.

For instance, the actress in a dramatic show may wonder why her script has to be cluttered with information for the audio-engineer or the sound many the operator may question sky his script must show instruction to the telent. But all will recognize the reasons for this once they work together in a complicated program. A brief discussion such as the foregoing explanation serves to introduce the necessity for learning proper script techniques. Script techniques are marely rules for putting their ideas on paper so that sensons else may follow their instructions easily and correctly. Then the class is given semple

scripts to see. These are found in various books on radio and television production; stations frequently are willing to give many such scripts.

All following writing essignments must now be put in proper script format.

Unit IVE Handling the lines

The content for this unit falls into coven categories:

- 1. The kinds of news programs
- 2. The regulation of commercials in news programs
- 3. Scheduling the news programs in the broadcast day and the effect of the time of day upon the treatment of the news
- 4. Stredght ness progress
 - a. Writing the original story
 - b. Editing the wire news
 - o. Building the news show
- 5. The commentary name show
- 6. The documentary name show
- 7. The television news show.

The books on the "Reference Rending" list for this unit have good information for the student.

A number of specific objectives, in addition to those stated in the preceding unit, are set up for this unit. Vorking with the news of the day, collecting, evaluating, considering the audience and time of day, writing the broadcest copy, and delivering it offer many opportunities to achieve a number of desired goals. The work is teilored each senseter to the mode of the ourrent class, but generally the grain for this unit are thoses

- 1. To arouse an interest (if it has not already been aroused) in current affairs
- 2. To develop an ability to read from several sources and then evaluate the sources and synthesize the details into a logical story
- J. To develop some midll in detecting what is never
- h. To give training in writing copy for a listener that is informational, listonable, and logical
- 5. To increase the vocabulary, make it more vigorous and colorful, and more specific
- 6. To acquaint the student with the processes of headling wire
- 7. To begin a development of a sense of showmenship or putting elements together to make a show
- 8. To give opportunities for discovering one's personal epinions and them presenting them in some defensible manner
- 9. To continue the development of the student's skill in microphone reading
- 10. To setablish regular habits of reading, listening, viswing the name.

This unit of study usually is given three weeks of time. But, like the proceding and following units, it is not a discrete entity.

Since most teen agare do not listen to news programs regularly, to do so becomes a permanent assignment during this unit. The class is requested to listen daily to one specific news program, radio or television. While doing this, each one is urged to note differences, if any, in the show from day to day, differences in the newsman's style or personality. They are urged to hear other shows, to hear as many different types as possible. This is where a discussion of types of news programs is introduced. As soon as the students can distinguish between the three besic types, the class moves on.

While listening to these ness shows, students are requested to note how and when the commercials are handled. Then referring to the work of the first unit and the mike talks on the FUC, this section is built on that foundation. The student is led to discover how the FUC functions in this matter of commercials on the news programs. The FUC regulations are mated and then applied to the programs which they are listening to end vicating.

In addition to the FCC as a regulatory body, the Mational Associcetion of Broadcasters (NAB) is investigated as to its history, power and function.

The problem and the danger in this unit is taking too such time with various sections of the unit. This is one section that should have such more time spent on it.

This study of the relationship of the FUG and the NAB to the production of news programs for radio and television must be kept brief and sursory. It is to be hoped that an awareness of these organizations and the need for them is given the student and that a social studies class may delve into the study desper. It is also hoped that, if the student does choose broadcasting as a college subject or a career, this cursory study gives him a solid base on which to build, gives him perspective for his later experiences.

Referring to the earlier study of the broadcast delly schedule, and the suareness of the industry as to the is listening when, discussion is now pointed towards the news progress. The patterns of time, length and treatment of the news for each period are analysed. The differences between radio and television and the reasons for their differences are investigated.

The purpose of this phase of study is to point up when news programs are scheduled, sky a specific treatment is paired with each broadcast period. The student's reference resding and his delly listening plus class discussion should synthesize the details.

A glance at the course outline roweals that the explasis in this unit is on straight news.

This course justifies itself primarily because of its explasis on the language skills. This perticular section is most practical because most of the students will never choose broadcasting as a career; but all will be in need of language facility; will be communes of the broadcast program, especially the news; and will be in need of the skills of evaluation and synthesis. First, a journalistic approach to the study of news is taken. Must is news? Reading and discussing this question in class leads to a study of the news which involves identifying the elements of the news, and how to write it for a listener, or how to present it with the aid of pictures for a viewer. Reference reading in any of the recommended high school journalises texts gives the student a foundation for this class discussion.

Usually there are some students in class who have had or are thing journalisms they become the class discussion leaders. After this discussion, students then begin a series of assignments designed to take them through the process of gathering, selecting, evaluating, writing a news story and then delivering it on mike.

Following this experience, reported as many times as time permits according to the size and shillity of the class, the class works on time nows.

Whereas the emphasis in the previous section was upon writing, the exphasis is now upon delivery. In both cases, the students are collecting "do"s and don'ts" for their notebooks. There is some writing in this section, but it consists mently of the transitions needed between items.

The history of the wire services and how they operate today is covered either by lecture or by reference reading and discussion.

Hart, a collection of the wire nows is obtained from the local station. How to handle this copy, interpret it and edit it is deconstrated before the whole class.

Then for several days, a student picks up the thrownsay collection which the station offers to the class. A few members of the class are

essigned such day to come in after school and go through the process of "stripping the machines and posting." They identify each item and post it on special hooks, labeled "sports," "weather," "five minute," "apot suspensy," "fifteen minutes," etc.

In the meantime, students have been practicing with this copy. Then a series of microphone projects is assigned. They begin with short, single items and graduate to langur, single items, to two items with transitions, to three and four items. They begin with thirty-second time sessignments and graduate to sixty seconds, minety seconds, two minutes, three minutes and finally five admits.

Now that the student has a foundation knowledge about nows—what it is, how to present it, attitudes towards it—some experience is needed with the "on-the-spot" name. The ability to discuss or describe what is being seen at the moment is important to the news person, man or woman. A few specific devices, such as proceeding from the general to the specific and beak to the general again, and class listening to recordings of ex-the-spot name is given before actual experiences.

First, the student is asked to write out and read such a report.

Sometimes they are given their choice of ideas; sometimes they are assigned topics, such as the school parado calabrating the team's state victory, the fire in the local business section, or (for the boys) some chargionship exhibition of an athletic fact or (for the girls) a new high fashion being schibited or a chargion cake baker receiving her smart. The class proceeds from these communical experiences to those, not usually

experienced by teemsgers, which will require some reading and imagination. Topics used here are the last moment before a musician or musical group begin to perform, such as Van Cliburn coming on stage and teking his bows in a well-known suditorium in Indianapolis, or on the Indiana University or Purdue comms.

After writing and reading the first one, the following assignments may be planned, thought through, but no notes are permitted at the mike.

Brantually the assignments reach the point where they are actually ad libbed.

The student ploks up a topic after he reaches the studio. This work is not empleted here; more experience is given in Unit VI.

A respite from daily microphone projects is given and discussions are next centered around building the news show.

The departments or categories of new items are identified. From their listening-viewing, students report how certain news progress arranged their items and whether the progress they heard regularly was consistent with this pattern.

Sometimes several different news shows are recorded scriler in this unit for identification of types of news shows. How those shows are heard agains this time their patterns of arrangement of categories or departments is smallysed. Attempts to determine thick arrangements are more effective are made. The effect of arrangement upon various sadianoes at various times of the day is discussed.

Now a show is put together. The frames which were written earlier are now used.

Student is now ready to put them together into a unit. The class is assuing the mid sewester. Sometimes at this point, the student feels that his progress has been slow and his learning fregnantary; but the class moves repidly from now on. The work assignments are heavier too; but students are acclimated. They can move faster; they need to get the feeling of the pressure of the daily grind in broadcasting. The old adage, "the show must go on," is put to work. When assignments are made, a producer or director in the team carries the responsibility. The show does go on. Someone must fill in for the absence. This policy is amounted in advence; it eliminates the problem of slow-downs in case of showness.

Students have been working in teams prior to this time. The framework for their news shows is written. They have had several experiences with the news, both original and wire copy, and with writing transitions. They have done a considerable amount of listening. Now the complete news show is planned. No commercial is permitted.

The class is arranged in teams of operator, associator, nemoceator.

All get a grade; but the news grade is the major one on this round.

Everyone serves as a nemoceator; as many as possible are given the other assignments. The nemoceator becomes the producer and uses his our framework for his show. This producer writes all the continuity, plans the format, prepares three copies of his show. According to the size of the class, these programs very from five to ten minutes. The framework must

include the use of one record. This means the operator may has a record and two voices to manage. A laboratory day is scheduled on which the groups can work together, select and sudition records; operators may get some practice time at the compole or may confer with the chief operator; producers may have brief "dry runs."

A schedule of each team's air time is posted; two minutes for changes in each out of the studio are paradited between shows.

On the six day, the rest of the class listens and also watches for studio techniques and procedures. Notes are made for later discussion. About the last ten simutes of each class are taken for class evaluation, questions and ensures.

This same procedure will be repeated after the communitary and the commercial are studied; and again after the send-computed shows are studied. It should be noted that these team projects become longer and more coupliseshed. It is at this point that the members of the smaller class derive more benefits individually because more than one round of those projects can be acheduled.

Actual experiences with television nows are delayed until after Unit IX. the Television Unit.

The study of the communitary follows this complete name show project. Semptimes it becomes necessary to aliminate this section if progress has been slow up to this date.

The primary value to be gained from the work with the communitary name comes from the writing experiences. This is writing in a personal

manner, such as the editorial or the essay. Sometimes the other classes, English or journalism, have given the student sufficient experiences in this area for the time beings this is smother reason for not including it here.

In order to be a communitary, one must be first a news reporter, a uniter, and a radio newscaster. In addition, he must possess the shility to recognize that a story has a debatable quality, that there are various opinions about it. He must also possess some sidil in determining his sum position, be espable of arriving at his sum conclusions logically and homestly, and be able to present and defend them. This is a section which the debaters usually enjoy very much.

Class discussions on differences between fact and opinion, on how one arrives at a conclusion, how one prepares an argument are planned. Just as in the earlier mike talk assignments, if time must be taken to teach oral speech composition and if time must now be taken to teach some basis principals of debate and argument, then some items in the source must be deleted. This is the reason for the prerequisite of a basis speech course.

Experiences in writing and in giving their own communities are planned. Current problems in school, community, state, nation, and the current high school debate topic provide ideas for subjects.

Listening projects concerning communicators accompany this section

The concentration in this unit is put upon the straight ness programs some attention is given to the commentary. The documentary is put in the

second senseter, even though it appears in the course outline at this point. It is included in the outline here because this is the logical place for it according to the subject-matter; but students are not ready for it. So it is introduced to them; they are requested to do some viewing of this type of shows some class discussion about its characteristics and values is planted. Actual work with the documentary is provided for the next senseter.

Unit Vs Commercial Continuity

One or two weeks are usually spent on studying the techniques of writing and delivering commercial continuity for the broadcast program. The television delivery is delayed until Unit IX, the felevision unit. The commercials are prepared now; the adaptations take place later.

In addition to the objectives and content relative to communials that were indirectly involved in the two preceding units, the content now becomes quite specialised. A study of the business phases of the industry, which was begun in a general way in Unit I, is continued now in detail. The various kinds of communial copy, their purposes and styles, are snalyzed. The student is given experiences in writing and delivering these various kinds. He also makes a survey of the work of the communial ammounter, his training, the daily routine, and other characteristics of his job.

During this study, the aim iss

1. To give the student a broad picture of the commercial side of broadcasting

- 2. To indicate possible vocations in writing, selling, and announcing in these areas of broadcasting
- 3. To provide actual experiences in writing and amounting this kind of copy
- 4. To train his listening skills so that he can become a more discriminate buyer
- 5. To elect him to the propaganda devices used in selling.

It is necessary that the student have some comprehension of the radiotelevision industry as a business that exists on profits. In order to
write and deliver commercial continuity, students need to know who buys
what from whom and why. This kind of information can, in part, be obtained
from the magnatures in the trade. By sending them to these periodicals,
they not only get the information but they become acquainted with magnature
that otherwise they would probably never know. Included in the "Reference
Readings" are other sources. Special reports in the form of mike talks
and group discussions bring a wealth of information to the class. Topics
are listed in the class and members volunteer for their choice. Topics,
such as "the top ten advertisers," "the cost of certain productions and
why," "the increase in business of certain firms" are elicited from the
class. A previously made list helps to get from the class the items nost
desirable. Broadcasting and Tolecasting's table of contents provide
adequate ideas.

Occasionally the make-up of the class is such that a currory introduction to the study of the function of the agency is integrated at this point. Regulation by the Federal Communications Commission and the Mational Association of Broadcasters is also integrated and correlated with earlier studies of such regulation in broadcasting.

The student is also alerted to the possible vocations in this area. He is reminded of the chart that he is supposed to be keeping.

With this general background of the business of the broadcasting industry and the reason for and the importance of the commercial, the students is now ready to begin a study of the commercial itself. He is taught to think of the commercial as a selemen, just like the sales clark in the local department store. Of course, back of the commercial is a writer and an amouncer who give it personality and content and the project it to the listener and viewer.

Before the student can write or deliver a communial, he needs to make a study of the communial from three points of views (1) its general combant, (2) its production requirements, and (3) the times when communials are scheduled. When this is done, the student will then realize that the writer needs to know all this information before he can write. In addition, he needs to know all this information before he can write. In addition,

Having studied the composition and scheduling of the connercial, the student is reminded of the mechanics of scripting and studio work that he learned emiliar. He is given a few specific pointers concerning style and general mechanics of short commercial copy.

The student is not ready to write yet; he needs an acquaintance with professional copy and the experience of trying to deliver that copy.

While he spends time on listening-viewing projects, some reference reading, and investigating some local business or product (so he can write their communiate), class time is spent in delivering the various styles of copy. He is accomplishing two tasks nows (1) becoming acquainted with the different styles and purposes of written copy, and (2) getting experience in various kinds of delivery styles.

A study of the work and training required for the commercial writer and announcer is sometimes introduced here; sometimes it is combined with the vocational study for news work in the previous unit. Both are frequently combined and placed in cities unit. The decision as to where and how this is done is made in terms of the class personnel.

Now, having made a study of how to write the commercial and how to deliver it, having done some listening-viewing, and understanding the measure regulations and reasons thy commercials are important, the atu-dent is ready to write and perform.

idice assignments of professional copy are given first. Students work in teams of amounter and operator, and with a clock. The operator usually works with ID⁴s. These projects are short and everyone in the class can be heard.

This professional copy is obtained from several sources; some are indicated in the "Reference Readings."

having worked with professionally written copy, the student next writes and delivers his own, delivers the copy of other members in the class. Actual places of business and products, local and national, are weed. The assignments very in purpose and time length. Since these are short, a number are written and heard each day.

There are specific differences in the writing of the radio and television commercial. The student already has some idea as to those differences but this thinking has never been crystallized. Class discussion and reading lead him to this process now.

Identified script techniques are not introduced until Unit II, but it becomes necessary here to explain that becomes the IV script must give both andie and video information, the page is divided vertically, thus allowing one column for each kind of information. The student analyses several television commercials, determines the proportion of time between speech and pantonins, notes how the camera causes the viewer to see different plotures. Then the student writes a commercial. Instead of camera commends in the video column, he writes out a description of what he plans for the camera to do. These are collected and evaluated, returned to the student to keep until Unit IX.

Now in order to bring a feeling of completion to this and the two
preceding units, the students are arranged in production teams. This time
there is a producer-director the is not a performer, unless there is an
shaence on his six date. Fifteen minute programs which include various
kinds of news and commercials are planned. One operator works each day;
the programs are "back-to-back." Two or three may be planned each day.
The producer is responsible for script copies, all assignments, and, with
the operator, for the selection of the masic and/or sound that is used.
Sametimes the use of a popular record or other masic is permitted if the

term presents a valid reason and material for using it. This project usually proves to be practical and interesting.

Chooking or grading of this project is usually scaled on these points. For the director, a total grade includes his planning and giving of instructions, his behavior during air time, the preparation of the script, the planning of the program. For the performers, their quality of work done at their assigned job, their individual contribution to the total planning, their cooperation with their director are points noted. For the group, a grade is given which some to be more important than the individual grade. This is based upon quality, originality, and listensbility, and someway of fact and aschamical details. A written report of individual performance and of the program as a whole is given by the tenoiser. Class sections write a critique of the program as a unit; those who are appearing in the immediately following program are excussed. One of these critiques, chosen at remion, is graded as a listening project.

This came team project and grading system will be utilised again at the end of the next two units.

Unit VI: The Semi-scripted Show

This unit of study is the most flexible unit in the course of study.

One of two approaches is taken in planning this unit each senseter. If
the class is mostly seniors who have had several senseters of speech,
the work in this unit becomes very practical. Heav studio projects are
planned and the students receive a considerable amount of writing and
production experience. On the other hand, if the class is composed largely

of juniors who have had only one, or parisps two, semesters of speech, this unit wast be planned very differently. Fower production projects and more exphasis upon the skills and techniques of group discussion, desconstruction, and interview must be planned.

About two weeks are usually alloted for this unit and the work covers
the en-the-spot report, the interview, the discussion type program, the
demonstration, and the public address. These types of programs are saidscripted, sometimes called unscripted shows. There is always a script,
but some types of programs are such that a complete script is impossible.
In such case, a "frame" is written and the body has "running copy."
A "frame" is sign-on and sign-off copy; the "running copy" is merely an
entline which shows thus segments and word or line case. These details
are usually described in Unit III, but the student has no actual need
for the information until this unit. So it needs to be repeated here,
unless it is not introduced until this point. The medic of the class
deterrine at which time it is introduced into the course.

The goals, since this is a broadcasting course and not a speech course, are primarily those goals associated with broadcasting. The study and the projects are so planned that they will give the student the techniques and actual experience in planning, writing, producing, and performing in these various types of shows.

The study begins with the on-the-spot or ad lib type of show because some work has already been done on this particular type of performance during the news unit. But there are many variations; there are, in addition to the news reports, the several kinds of sports programs, the

shows width primarily appeal to wash (fastion and food demonstrations), and special events, such as parades, fires, concerts, and similar affairs.

Continuing from the point there the work was left in the news unit, stadents write. their first on-the-spot reports; then they think through their essigned topics; next they take them "cold" or as they enter the stadio. Topics cover all the possible range of areas that time permits.

Some reading references are listed in this study, but sotual experience is the best tosoher. Since the sike appearances are for short periods of time, each member of the class can have several wike experiences. The students are directed to aim towards facility of words, selecting words that arouse pictures in the sdud of the listenes, towards acquiring the shillty to keep words flowing smoothly, and to gain skills in using words correctly without being formal or everly precise.

Next to the general skills of ad libbing, perhaps skill in interviewing is second in importance in this whole range of special types of scalescripted shows.

In working with the interview type show, the ad lib skills are important plus the know-how of procedure. A detailed outline for this procedure is presented in the outline. The steps of planning, preparing, and the satual interview are discussed in class. Next, satual interview experiences are planned.

Planning these interview experiences cometimes becomes difficult.

To make them interesting and practical at the same time presents a dual hazard, but several suggestions for projects and procedures for handling them are presented in the Appendix.

In presenting the discussion and other similar forms of group performance techniques for broadcasting, the background in speech training of the class is very definitely important to the planning. If the class members have had work in public speaking, discussion, debate, and argumentation, the work in this section aims to adapt that learning to the medium of radio and television. But if the students had no experience in discussion, them a foundation of discussion techniques must be given; this results in less time spent on sike projects. No description of the methods used in presenting the speech techniques is given here; these can be found in most high school speech texts.

Listening-viewing of discussion type shows are assigned; these are followed by class discussion. There are probably more discussion programs on radio than on television; there are some interesting varieties of the penal show on television. These midition experiences are synthesised in class discussion. The discussion period is directed into two classics, the planning and the on-the-air procedures.

Subjects for the sike assignments are taken from the current school and community problems, from the current high school debate question.

Sor American Speech, J. B. Lippencott, Publisher, Chicago, 1957.

A. T. Wesver, Gladys Borohers, and D. K. Smith, Specking and Listening, Prentice-Hall, Englawood Cliffs, N. J., 1956.

Francis Griffith, C. Helson, and Edward Steehelf, Your Speech, Herrocurt, Brace and Company, New York, 1955.

Low Serett, W. T. Foster, and James H. McBurney, Speech, Houghton Mifflin Company, 1956.

It was suggested earlier that topics concerning the history, the communicated sociological significance of the industry sight be used here in discussion or panel topics.

Each show follows all the techniques and procedures learned to date.
This unit becomes a period when integration of skills is most important.
Operators, announcers, and directors, in addition to the group performing,
serve on the production team. Either the director or the announcer becomes
individually or jointly responsible for the portion of the script that must
be written; the leader of the group or panel assumes responsibility for
the remainder. These two obsirmes work together in the planning period.

Plans for these shows include the station which is broadcasting the program, the time of broadcast, and the endience for whom the show is designed. Sometimes the students are permitted to choose these details; sometimes these details are part of the assignment. In either case, the grade depends upon the decisions made by the students in terms of these details. The longth of the show is determined by the size of the class. The planning and preparation of the deconstration show are usually discussed; then plans are made for a demonstration show, but these experiences are not actually assigned until the television unit.

In the very first unit of study, it is usually announced that much of the information gained in this course must be obtained through research and presented or shared with the class; this means that the class would obtain much of its information by listening to others report in the form of sike talks, interviews, and group discussions.

A review of the procedures for planning the formal public address or talk is held first. Discussion, then, is pointed towards analyzing the difference in audience relations between the live audience situation and studio talk for the unseen audience. This analyzis leads to the next point in discussion, how these differences affect the planning and delivery of the speech. Then, that is the difference between radio and television specking? When all this is comprehended and synthesized, sound talks are made. Topics from the field of broadcasting are usually used; topics from each student's major interest area also provide interesting talks. Listeness are hald responsible for what is said.

listening-viewing projects for this unit provide no problems since this is a day in which our local and national leaders are scutaly sware of the power of these media and frequently use these media to further their own particular companies.

Unit VII: Creative Projects

instead, it provides an opportunity for the student to integrate the vertous broadcasting skills acquired and an opportunity to create and experiment with ideas in the broadcasting media. It is a flexible unit. It can be, and is sometimes, placed at the end of the semester; there it serves as a final emmination project. When it is placed here at the tendith week, it serves as a change in pace from the routine of study and them small projects for experience; it swoids the psychological resettons of urgancy and tension that accompany the end of a semester;

and it also provides some momentum for the finishing of the summeter, particularly the next unit. The next unit of study owers the technical or physical aspects of broadcasting, which is more content-based, and offers less studie practice projects.

If the individual speech and language arts backgrounds of the class are such that the progress of the class has been sworth and soved forward in this study of broadcasting, and the sphecials of the per unit has been kept, this unit usually receives about three wasks. But in order to get into it without loss of time while students are planning, it mads to be anticipated—during the early part of the course. Students must be arged to be thinking, planning, listening, observing in order to create a progress.

This unit, if it can be called "content," deals with the task of creating a show and them seeing it through to its fruition. Several types of shows are suggested and students are directed into the verious charmels of activity which lead to made shows, shows for special sudiences, adoptations, and original drawatic writing. Students are urged to create shows out of their can special interests and hobbies, and out of rescerch.

then were serious music shows are required. East, religious, concert, and various types of foreign music are tackled. A number of scripts are propared; some of the continuity is reed in class for analysis. One or two of the better scripts say be produced for descentration.

In the area of shows for special andiences, essignments are more individual. A discussion of special andiences, their needs and interests,

precedes any decisions. Some of those special types of sudience are children, teenagers, daytime women's sudience, sports-winded men, the rural group, various foreign groups in larger cities, and others. An attempt is made to show the class just how wide the range of variety of sudiences is, which in turn provides many opportunities for creativity.

Perhaps a listing here will graphically illustrate the range of ideas uncovered in class discussion; after which, in individual consultation, each student's writing assignments are planned. The number of soripts and the number of shows to be required is determined by the time element and the student's shility.

Some possible types of shows for special sudiences are:

1. For children

- a. Story telling, streight and saul-acted
- b. invite
- e. Music
- d. Fortier
- e. History
- f. Arriaga tales which toach

2. For worm

- a. Food preparation
- b. Heal planning
- c. Roma care
- d. Home decoration
- e. Child care, infancy through adolescence
- I. Music, art, poetry, liturature for relaxation
- g. Maio, art, poeiry, literature for information
- h. Have communication for interpretation

3. For man

- a. Sporte reviews and previews
- b. Sports, general news
- s. Sports stories and personalities
- d. "how to do it" (crafts and household jobs)
- e. Camping, fishing, bunting, etc. tips
- 1. Business, farming, banking, etc.

L. Teensgers

- a. Husia
- b. Cruits
- e. Vocations and careers
- d. Discussion of rersenal problems

A list like this is usually set up in class from their suggestions. This spontaneous suggestion process reveals that they like and do not like, what they think about these various groups and their characteristics. It is helpful to the teacher to have this reaction before the personal conferences and it operates on the individual numbers of the class as a stimulus which results in a chain reaction of ideas. Sometimes some very practical ideas on as forth.

Suggested at this time is the possibility of adaptations and original dramatic writing projects. It is explained that these will not be studied until the next senseter. The reason for this is that they must have experience in creating ideas first; clothing those ideas in dramatic form is more complicated and comes later. However, frequently the more superior students, or those with more theater or writing backgrounds, are empshis of a minimum ascent of such writing new. If they are and wish to tackle such, they are permitted to do so. Special reference reading is sometimes assigned or advised. This is suction reason for spending time at this point in pursual conferences planning these projects to fit each student's abilities and needs.

In each case, the students are urged to think of their shows in a senior. Although they write maly one, they are asked to plan the series,

to give it a title, to suggest details for the other shows in the series.

About a week of individual work in class is persetted; the teacher is on call for personal consultation to help solve problems and for emsistance with scripting. The better scripts are selected; the writer becomes a producer; production schedules are sade. Finally, the last few days are spent in "logged" broadcasting.

Unit VIII: Simple Engineering Aspects of Redio and Television

The technical aspects of broadcasting are highly specialized and have a broad scope. In order to present this auterial to a high school group in a manner in which the material way be comprehended, it is necessary that an evaluation of the scientific background of each student be made known. A knowledge of this background allows the teacher to determine the level and extent of the technical materials which may be developed in the classroom.

Approximately two to three weeks are spent on this unit of study. The general purpose of this study is to acquaint the student with the physical process of broadcasting so that he will have a greater appreciation for the work and the workers in these areas. It is not designed to make a technicism nor an engineer out of the student. It is believed that the student as a writer, director, or a performer will be acre effective and cooperative, and able to communicate more efficiently with his technical staff if he has some comprehension of these areas.

A brief survey of vocational operativities in this field is also presented.

First, a review of the path which the sound takes during the broadeast process; each major stop is not studied in detail. From this overview, the class is realy to proceed to the more advanced ideas which follow.

In order to orient the students to commercial broadcasting, the various classifications of heredeasting as set forth by the Federal Communications Commission are investigated. The purpose of this identification is to clarify in the student's mind the fact that there are several forms of broadcasting other than the radio and television services provided for home receivers which they tend to accept as the only means of broadcasting.

Having established the understanding that there are several forms of broadcasting which the FW recognizes, the student's attention is directed to the engineering details of the radio form of broadcasting.

The first stop in the broadcast path takes place in the studio with the tolent performing before a sicrophone. A discussion about functions and characteristics is presented. The general principles of acception and sound control are discussed and specific reading references are sanigned. The advantages of a career in the field of acceptical engineering is developed. The importance of the arrangement of equipment and furniture in the studio is descentivated. The relation of studio performers and technicians to the control race personnel is also descentivated and described.

After this brief study of the studio, the students are introduced to signophones. A knowledge of the basic principles and purposes of signo-phones is required of all students. While lectures contribute the

replacedly supplement this external students then are given reading sestigments concerning addrophones. Fictures taken from magazines and estalogs add visualization when available textbooks do not include pictures showing the various addrophones. With the help of interested science students, sometimes a display of the basic principles of microphones is offered the class.

The next step, transmission from broadcast console to antenna is best done by showing mounted pictures and explaining the work of the console, the systems of patching, the broadcast transmitter, and the tower and antenna. This is followed by satual visitation to the school's control room and them to the local commercial studio. Science students especially interested in electronics and swateur radio operators frequently contribute valuable assistance during this study.

Definitions of several key words are next required in order to introduce the study of transmission. The student is esked to locate definitions of such words as cycle, frequency, sound wave, radio wave, etc. The class members pool their findings; in this way the entire class arrives at accepted definitions. A knowledge of these key words leads to a dissussion of the Federal Communications Consission and the need for regalation of broadcasting.

The need for regulation introduces enother key word to the class; namely, the electro-magnetic spectrum. Reading and discussion plus discussed and the use of the magnetic spectrum charts available in

tertbooks, which have been enlarged for classroom use, lead to frequency samigneents. Explanation of the radio disk, the television channel, the very high and ultra high frequency telecasting are followed by a study of the kinds of modulation, suplitude and frequency. Classiase for reading from verious materials in them permitted. "Bunn sections" are also permitted; this allows students to question and discuss with each other. It permits the teacher to spend time with small groups in discussion and thereby aid individual students, thus bringing the class to a more general level of understanding.

Following this study of frequency regulation, modulation, AH and Fil broadcasting, files are shown if they are available. These files are listed in the Appendix. The best way to present files which cover specific information seems to be to present them before any study of the subject has been made and them to show them a second time after the study has been completed. This is not always possible. If a choice must be made, in most cases, the preference is to show the film after the study has been completed.

The technical or engineering aspects of broadcasting are now envered and examinations are presented. A glance at the outline, however, will indicate that the unit is not completed. The remainder of the work in this unit is related to television and is pointed towards the next unit.

[&]quot;There the slow students, a peophlet, titled "Radio, USA," is secondened. It is easy reading and aleverly illustrated. One copy may be obtained free and others purchased at a nowinal fee from the Mational Association of Radio and Talevision Broadcasters, 1771 H Street, H. W., Washington, D. C.

Therefore, this break between the engineering study and the study of the television camera seems to be the logical place for examination. The resson for not including the remainder of this unit in the next unit is that the study of the television camera is somewhat physical or technical in aspect. The next unit is an activity unit; whereas, this unit is a study or content unit. Therefore it seems more logical to place the study of the television camera in this unit on the engineering aspects of broadcasting.

The number television station to this class is fifty siles distant.

Because it is not always possible to arrange a visit at this time, this section of study must be presented with pictures and descriptions.

To introduce the camera to the class, sketches on the blackboard serve to show its function—that of taking and receiving its picture. There are reference meterials available which explain this process, but many of them are quite technical; some students have difficulty reading such meterial. Therefore, the pictures, the sketches, and the "buse sessions" aid the student when actual cameras are not available.

Two projects have been found to make the presentation of the camera.

Lenses more vivid to the class when actual cameras are not available.

One project is the Brets Box.

This is a small cardboard box with

Television Techniques (revised edition) by Hoyland Bettinger and Sol Commberg, New York: Harper Brothers, 1955, Chapter I. In the same book is an equally simple explanation of camera techniques, pages 61-71.

Hill Book Company, 1953), pages 75-76 for instructions as to how to make a Breta Box. Some angestions that are helpful in following the instructions may be found in hambook of Breadonsting, Waldo Abbot and Richard L. Rider, (New Yorks Helpful Book wompany, 1957), p. 193.

size of the four television lenses. For a small fee, usually ten or fifteen cents per student, masking tape and the cardboard is purchased and out to uniform size. Class time is taken to cut the spertures and tape the pieces into a Bretz box. Some students wish to keep theirs; others leave them for other classes. So it becomes necessary about every fourth semester to make a new set.

When each student has a Brets box in his hands, he has a device that will give him a framed picture. By directing the students to "shoot at" specific objects with certain lenses, the student will be able to see the different pictures and "shots" that the television camera is capable of taking.

The camera's moves and commands are studied in this manner also; each student becomes a cameraman.

The second project which helps make less characteristics more graphic is a teaching aid which needs to be propared only once and can be used for several semesters. This aid is made as follows: from each of four large pieces of cardboard, spertures are cut in proportion to the four lesses. Magazine pictures are put behind these frames; these pictures suggest a stage setting such as an office deak with a chair behind it or

it is a model, it has the qualities of reality; but its disadvantage is that only one student can actually use it at any one time. References for making the dummy or mode up camera may be found in the following books: Talevision Scripts, Rudy Brets and Edward Stasheff, (New York: A. A. Wyn, Inc., 1951), in the foreword and the Appendix; and Edward Stasheff and Rudy Brets, The Talevision Program, (New York: A. A. Wyn, Inc., 1951) Appendix II.

By moving these pictures around, behind the spertures, the student gets an impression which suggests a picture viewed on a television set.

A series of pictures give a variety of scenes and also the effect of the various lenses at various distances from the object.

Reference to the assisting technical aspects of television production, such as lighting, contuning, and others are made by lecture. Sometimes there are students with specific interests in these areas; they are given extra projects for extra credit. These projects are either special research about possible careers or projects related to building or designing a model related to their major interest area.

The unit is closed by reading and class discussion, sometimes in the form of radio group discussion, comparing radio and television, and evaluating the importance of broadcasting to society.

Dnit III Television Productions

By this time, Brets boxes are made; the student knows the communical moves and communical he has written the audio portion of a communical script. This unit provides an opportunity for a minimum number of experiences in television. About a week is scheduled for these activities.

Presenting a series of such scenes to the class, with or without music and sound, stirs the imagination. Greative writing projects spring from this activity.

Breta box.

No grades are taken during this week. The lack of television studio and equipment and the minimum amount of time given to this unit do not marrant grades; however, the work in this unit is valid because this is an age of television and the student can benefit by swen this brief introduction to it.

The aims, then, for this brief study are to provide a continuation of the previous study of television's physical aspects, to give the students a cursory experience in television production techniques so that he may become a more appreciative, understanding listener and intelligent continuer of the television broadcast.

The video portion is charged from the prose write-up to the symbols for samera moves and shote. A studio term is rehearsed and desonstrates the production of a commercial. If the class has visited a television studio, members of the class take over direction of several commercials. If no visit has been possible, the teacher does the directing.

A wide range of possible activities is available if the espabilities of the class parall and if the television studie visit has been included. When this background is favorable, it is possible to plan deconstruction projects and experiences with either the name or an interview.

The students become camera men and work with Brote boxes. A floor director works with our phones from the control room, where a director, instead of smitching, is working from a Brote box, calling directions over the talkback system. These classroom experiences plus group visting of a television show, followed by discussion, provide some impetus for students to continue a study of television. They usually sak for more. Some can be included in the second semester.

Unit It Vocations and Simificance of Industry to Society

In essence, this unit is a concluding unit. It brings together all the loose ends and attempts to give a feeling of completion to the study. It tries to swoid the feeling, however, that such study has been all-inclusive. It does attempt to point up the various areas of continued study possible in high school and college.

No new content is introduced in this unit, but the explasis is upon study, not activity; the study areas are (1) vocational aspects of broadesating, and (2) the general significance of the broadcasting industry to society.

In the first unit a project was begin on vocations which must now be finished. Each student was assigned to make a general survey of the opportunities that became apparent in each unit of study. Now he is sequired to concentrate on one; a thorough investigation and report is made on this one job for which he feels he has some potential and would enjoy doing. These reports and the general survey are written. Canaral class discussion, after the completion of this work, tends to bring much of the individual findings to all the sembors of the class.

The study of the significance of the industry to society is done by committee projects. Small groups volunteer to investigate various phases

of the topic, such as the political implications, the communic aspects, the constional possibilities, and others. Bibliographies are made; research is done; then panels discuss their section of the study. Hadders of the class not on the panel ask questions which are answered on the following day. Each panel performs twice. After all the panels have been in action twice, one mader of the panel and one meder of the class not on the penel are paired together to summarize each panel's contribution. At the end, those pairs of students present a final panel on the general subject of the significance of the broadcasting industry to society. The student who was not a sensor of the panel makes the formal presentation; the panel scaler is there to enswer questions and sake sure that the speaker does not misrepresent the panel.

Sometimes this final penel becomes so interested and concerned that another class, perhaps a social studies or English class, will be invited in to participate in the discussion.

As a final project, students are sained to evaluate briefly what this course has contributed to their general knowledge and skills, or to plan five general questions over the field of broadcasting that saubers of the class should be able to ensure after having completed this course.

SWEETZ

This is the one semester, one credit course in Encir I as presented in New Castle, Indiana high School during the school year, 1957-1958.

It is the result of a combination of conditioning factors. It has developed over a period of years, since 1938, when the central sound

system was installed. Major changes in the facilities since that time have caused major changes in the course. The operation of a ten-suit Fil, noncommercial station between 1950 and 1955 resulted in the establishment of a second course. Producing programs for broadcast over the local station since its establishment in 1917 has provided students in the radio classes with opportunities for actual broadcast experiences and has provided content and direction for the courses. Since the end of station operation, the two courses continue to be offered. The major change resulting from this suspension of activity has been an increase in the amount of content about broadcasting and less orientation towards station operation.

These, then, were the conditioning factors within the school. Other conditioning factors which influenced the design of this course were the workshop and study experiences of the teacher. Primary among those studies has been the historical investigation concerning broadcasting in education which has been presented in this thesis and which has served to set in broad perspective this curricular offering for a high school.

An evaluation in terms of the objectives of this course, its merits and weeknesses, is presented in the following chapter. Possible adaptations for use in various types of other schools are also offered.

In the Appendix, a detailed outline of this source of study is presented, unit-by-unit, followed by suggested reading references and projects. Included with this course outline is an outline for the second semester study of broadcasting (Secto II) as presented in New Castle High School about every third or fourth semester, then enrollment warrants.

The bibliography includes some recommended films for inclusion in this course of study and a classified reference bibliography for the high school teacher of a course in Radio or Radio and Television.

VI FETTALLD

SULTARY AND RECOMMENDATIONS

The course of broadcasting instruction described in this study has been examined in its contextual setting. The design of the study is based on the assumption that such a course is the product of many national trends and factors, as well as the peculiar characteristics of a local situation. It is further assumed that such a course of instruction can best be evaluated and understood when accompanied by an analysis of the sultitude of shaping factors. An attempt is made in this final chapter to review the foregoing materials, to evaluate the course in torms of its shaping factors, and to suggest possible variations.

Ristorical Development of Broadcasting in Histor Exection Survey and Conclusions

Although the necessary technological developments came on the scene around the turn of the century and some attempts had been made in radio programming, radio did not begin to emerge as a program service until 1920.

Almost immediately educators began to utilize the new medium of comnumication. They began operating their own stations as early as 1922 and some continue to operate them today. Institutions of higher education operated most of the early educetional stations. Of the 202 educational radio station licenses issued before 1938, 124 were held by colleges and universities.

Instrumental in this development of station ownership by educational institutions were a number of educational and federal agencies. They nade their influence falt by pressures on the federal government; they fought for protection of educators; rights to broadcast; they lent their support and encouragement to educational institutions to enter into broadcasting.

Between 1920 and 1938, the Federal Communications Communication had issued 202 broadcast licenses to admentional institutions; but only 38 were in operation in 1938. Not only was there this sharp decline in station operation; statistics reveal that individual stations were short-lived. Host stations operated one to three years; very for existed longer than five years.

Causes of the apparent failure of these early attempts by educators to operate their our stations were similar. Heny of the esuses were inherent within education.

By the end of the forties, Fi and ETV had emerged. The FCC had reserved radio channels in the Fi band for educational radio and had established the low-power, ten-watt licenses for purposes of introduction to, experimentation with, and training in broadcasting procedures and techniques.

Since 1950, there has been a slow, steady increese in noncommercial ratio station operation. As of August 1958, Fit noncommercial operations

represent about one-fifth (153 stations) of the total (53h stations) Fi stations in the United States.

The ETV movement was marked in the beginning by difficulties; significant evidences of growth are not noted until after 1952. By 1956, the FCC had reserved channels for education. Since them, a slow increase is noted in the ETV movement. As of North, 1959, there were thirty-nine numbers television stations on the air.

Evidences of curricular interest in broadcasting by colleges and universities are noted as early as 1933. The first courses in broadcasting were studies of the skills used in radio performance and production. Usually these courses were offered by English, speech, journalism, or made departments; but by 1938, nost colleges and universities had placed the responsibility for radio training in the speech and draws departments.

continued interest in broadcasting curricula at both the graduate and undergraduate levels is noted because in the 1957-58 school year, 515 institutions reported their offerings of course works of these, 87 offered advanced degree works 10 offered doctoral programs.

During the mineteen-fortice, a trend was apparent to determine the place and function of broadcasting curricula in the educational system. In spite of these uncertainties and in spite of the wide disparity in course content and multiplicity in course credit and titles current at that time, institutions continued to add courses in broadcasting to their curricula.

When television emerged at the end of the forties, content pertaining to television was absorbed into the already existing curricular framework

by treating television as a separate subject or by adding television work to the radio courses. The pattern that is most prevalent today is a combination of these two methods.

Separate television and radio departments on the college level are relatively new, but there seems to be a trend in that direction. As of August 1958, twenty-eight institutions have separate radio-television departments.

During this period of curricular development, scarce content was undergoing an evolution. At first, courses were precioul; they not the current needs principly for emountary, writers, and actors. Then as the industry expended, educators incorporated the larger aspects of broadcasting in their courses; they added studies of the history and ethics of the industry. Today, this course evolution seems to be embering a third phase, that of research and evaluation.

Presently. Forms in broadcasting have been developed relatively recently. Forms then fifty graduate theses and dissertations in this field were written before 1935. Namy schools and departments produced research before speech schools and departments were given the responsibility for offering the course work in broadcasting. In spite of the fact that such responsibility was eventually assigned to speech schools and departments, they did not, until recently, foster the graduate progress in broadcasting. Since the late minoteen-fortise, a steady flow of research has some from various departments and schools in institutions of higher education.

Because of this increased securit of graduate research and because of the intersecting nature of broadcasting with other subject areas, courses in radio and television are now designed with a much broader someopt, which includes evaluation and research on the effects of the made. It is this factor which has brought the curricular development of broadcasting into its third phase. Curricular offerings and graduate research today are pointed toward the broad concept of mass communications, and training is directed toward saking the broadcaster a professional.

A contributing factor to this new curricular development has been the work and influence of the Association for Professional Broadcasting Education. Its influence, its relations with the National Association of Broadcasters, and its service to its masker institutions—helping them to upgrade their curricula, their facilities, and their faculties—have been significant factors in attaining academic status for broadcasting in recent years.

In conclusion, then, it is experent that institutions of higher education have been concerned with and active in broadcasting since the advent of radio. The development to the present status has been marked by spaniodic spurts of entimisiasm and activity; but on looking backward, it would seem that there has been a slow, forward progress to the present curricular concept.

Historical Development of Broadcasting in Secondary Education Sweezey and Conclusions

The first public school-owned radio station went on the air in 1922, shortly after the first university-owned stations began operations.

The development followed the same pattern that the university activity did. It was marked by a rapid, early growth of school-owned stations; this was followed by a quick desise of most stations. Of the 202 broadcast licenses issued to educational institutions before 1937 by the FCC, 22 were held by public schools; by 1937, however, all but two had ceased to operate.

The same causal factors that operated to bring about the repid decline in collegiate cumurating of radio stations brought about the decline in public school-cumed stations.

Thus, a parallelian between the university and the public schoolemmed stations is found in the development, in the decline, and in the emmes which brought shout the declar of such stations.

This parallelism continued through the mineton-fortice, which was a period of little activity.

During the late forties, Fi and TV made their appearance. Both the low-power license and the reserved channels for education by FCG were contributing factors toward a renewed interest in broadcasting at both levels, higher education and public school education. By 1951, it was obvious that the use of radio and radio techniques for educational purposes was an accepted scadenic procedure.

The noncommercial Fil operation in 1958 (153 stations) represents approximately one-fifth of the total Fil operations (53h stations); of this one-fifth, the public schools can about one-third (15 stations).

In addition to some agencies previously named as influential in behalf of educational broadcosting, several state departments of instruction contributed to the public school development; their influence was largely in the use of the programs in the classroom and for public relations purposes.

By 1930, the Office of Education had appointed a Radio Specialist to promote and aid radio education. The many services of this Specialist, previously cited (Chapter III) especially in the early years, have been partly suspensible for the public school development of curricular radio.

The most important conclusion concerning the history of the public schools, attempt to operate broadcast stations is that this attempt parallels the history of broadcasting activities in higher education.

The same characteristic is noted concerning the development of a curricular interest.

Radio first entered the classrooms of public schools as a tool of instruction; radio lessons were broadcast in Hew York City as early as 192h. This in-school use of radio reached national proportions by 1928 when the Columbia Broadcasting System inagurated the Danrosch Hasic Appreciation series.

The extent of in-monool use of radio and the number of organizations softwe in promoting such use was impressive as early as 1928; and by

1930, three-fourths of all public school systems were found to be participating in such activity.

Another way in which the public schools were generally involved in broadcasting was their use of the medica to promote better relations between civil and school communities. This usage has widespread acceptance today in both radio and television.

As a result of time dual use of radio, in-school broadcasting and programs for public relations, two factors are obvious:

- 1. The larger the city the sore its educational institutions became involved in broadcasting.
- 2. The concentration of interest and activity was in the Middle Wook.

These early attempts by public schools to operate stations, to use the broadcast programs either in their classrooms or as public relations whiches were often assatsurish and ineffective. However, this activity aroused interest, and learning took place.

The slab or extremerricalar activity appeared first within the framework of the high school program. This was a logical sequence to the broadcast activity which had been undertaken by schools.

Time, like some other subjects in today's curriculum, radio began as an extraourricular activity. Then, on the basis of demonstrated stadent interest, the extraourricular activity became a regular part of the curriculum. The radio class and the radio club, working together, have developed a content and a procedure directed toward the fulfillment

of a somewhat general body of objectives, width were cuilined and dis-

The expinate in those first high school courses in broadcasting was primarily on the technical aspects, such as the use of sound effects and music, and the operating of equipment. Later courses included the performance skills of speaking and writing, and program production.

Titles of courses, academic credit received, and objectives varied greatly from school to school.

Notivation for the existence of these courses often secund to come from the possible use of the class as a production center for public relations programs, and for the exhibition of student telent.

public school educators. Reports from these educators of their attacpts to include and to upgrade radio instruction in high schools came from various points over the nation. Also, evidences of interest in the high school broadcasting courses were found in outside groups with interests in the public schools. These outside groups, such as the Speech Association of America, colleges and universities, the radio industry, and even some state speech associations, displayed an active interest in fostering and aiding the curricular was of radio in the secondary schools.

high school courses concentrated less on the technical and vocal appears during the mineteen-fortion. Content was broadened, as it was in college courses, to include the history and some study of the importance of the industry.

One of the exclinat courses to be reviewed in detail was presented by the Michigan Association of Toschers of Speech in 1938. The course presented five units of study. The psychological aspects of radio were covered in one unit and the other four units concentrated on the speeking, soting, writing, and producing skills. Its title was "Radio Speech."

The hypheration of radio courses with another subject was quite frequent. English and speech were the most commonly shared areas.

By the mid-forties, the New York City schools were offering mix courses in broadcastings all carried credit. They, too, included a wide sunge of subject matter. The Cleveland system's offerings were broadcast during the forties to include the history and significance of the industry, as well as a study of broadcasting as a vocation.

It may be concluded, then, that efter the initial "trial and error period," between 1922 and 1938, there was a period of slow development; experimentation with procedures and content was followed by evaluation. This broadening of content was centered in classes for credit and in the extraorratemics activity.

In 1950, there was an increase in radio class and workshop activity and it was noted that there was a slight trend toward the introduction of television workshops into the high school.

Because of the attraction of the microphone for students, radio projects were frequently inserted into other courses of study, such as history, made, or English. This practice makes it difficult for investigations to determine the amount of actual instruction being offered today.

In the beginning, public school broadcasting was ineffective. This was due to the lack of school policy in placing the responsibility for the broadcasting activity on a definite department or persons within its jurisdiction. The same problem exists today in some schools.

Unlike the colleges, there is no indication of any trend toward locating this activity in separate radio-television departments in the high schools.

Objectives and values for courses in broadcasting in high schools show a wide range of philosophy, but some commonalities do appear. There is evident agreement:

- 1. That broadcasting at the high school level does further the language development of the student,
- 2. That it provides a notivation for salf improvement,
- 3. That such study provides a basis for understanding the industry,
- 4. That there is some transfer of learning to vocational efficiency, and
- 5. That discriminatory listening is developed.

Summer

In conclusion, the development of broadcasting operations in the secondary school paralleled the development in higher education. The repld growth, the usual quick decise, and the causes for the failure to operate noncommercial stations successfully summarises the development of station operation for both levels of education.

The reservation of FH charmels for education in 1945 provided a renewal of interest at both levels. The FCC amnouncement authorizing a low-power transmitter license seems to have created more entimatesm and activity among the public schools than it did among institutions of higher education.

The total of forty-five public school systems which operate stations today, representing about one-tenth of the total IN operation, is fairly impressive; but this number of schools exong the total number of public schools in America is relatively small. Most of the stations which are now operating began before 1952. This indicates that there may be more stability among schools in maintaining their licenses today than in the easily years of station operation.

Of the existing patterns of broadcast activity in the public schools, these two are noted:

- 1. Larger city school systems tend to sponsor more broadcast activity than those in smaller cities, and
- 2. Much of the activity is located in the Middle West.

It is also noted that those solved systems which became active in the easily years of broadcasting are the leaders today, e.g., Chicago, Detroit, Gleveland, and St. Louis.

Finally, broadcasting courses of study in high schools are apparently receiving scadesic recognition today.

Evaluation of the Course

As a result of this investigation into the history of broadcasting in secondary schools and after having taken a perspective sixed at evaluation of this course, its merits and its weaknesses may be assayed.

General Objectives of Secondary Education

The first requirement of any course design is that it meet the general requirements of that level of education. In terms of the general objectives of secondary education, this course stresses the personal and social values which may be gained from experiences in broadcasting and the study of broadcasting. It recognizes that individuals have varying especities and interests; provision for adequately serving these individual variations is built into the course. Lastly, it takes cognizance of "citisenship" as a goal for education at this level; through this study and the accompanying experiences, the student is led to recognize himself as an active member of society with personal obligations to that society.

The content of this course is so organized that study and activity are directed toward the acquisition of certain behavioral patterns or responses which are subjected, and which result in intellectual changes and emotionalized conduct. Inherent within the subject of broadcasting and broadcasting activities are the possibilities for obtaining subjects responses, intellectual changes in the individual student, and emotionalized conduct. The wide range of subject matter that must be integrated into a radio program, the fusion of intellectual content, and the artistic

wass of language, music, and sound effects call for an exctional response in the student which directs his eventual conduct.

Specific Objectives for this Course of Study

Another requirement of any course design is that it meet specific objectives which have been set forth to meet the needs of the subject matter, the school system, and the student body. Such a set of objectives was established in the design of this course.

- 1. The source was designed to provide the student with a set of experiences that would develop his personality and enhance his own personal worth to himself. Through the many proposed studie projects, the student has an opportunity to work in the group and thereby gain an evaluation of his own assets and weeknesses. By these group activities, he has an opportunity to develop those seems and utilize them for the welfare of the group. Through observation and personal conference, he can make provision for his own personal growth in terms of needs.
- 2. The course was designed to continue the student's development of language skills. The listening projects, the many experiences provided for writing and speaking performances, and analysis are opportunities for the student to continue his development of language skills. The majority of the work is performed in groups which include various tasks. This embles the teacher to make seeignments according to the shillities of the students.

 Setimfaction, not frustration, is soldered by the student who

- is willing, even decirous, of continuing his study. He progresses at his own speed, not at a fixed speed for the whole class.
- 3. The course was designed to widen the horizon of his interests and understanding. The student's interests and knowledge are widened and enriched through his preparation and participation in broadcasting projects that deal with various subject satter areas.
- to survey some of the vocational opportunities and determine his fitness and his interests in a career in the breadcasting field. In each unit, opportunities are available for the student to learn about possible vocations and careers in the field of breadcasting. In each studio experience and its ambacquent critique, the student has ample opportunity to easy his own interests and special shillities for cortain tasks in this field. In this way, he can survey the vocational opportunities and his interests and especialists for the work.
- 5. The course of study was designed to furnish the student with an opportunity to acquire some broadcasting skills and to gain some comprehension of the industry. The student is and will continue to be a consumer of the broadcast products he may or may not choose a career in the field. In either case, the principle that the more he knows about a tool, the better he can headle it, operates here. Through projects, the student gains a set of techniques; through his study of the content, he gains an understanding of the theory and philosophy. Then, as his techniques

become cutuated, his comprehension of the theory will exclusion to adjust to now conditions and new techniques. This course provides for a study of content and the acquisition of contain shills; and thus meets its fifth objective.

Additional Benefite

In addition to meeting its general and specific objectives, the course seems to possess some additional strong points. One of those assets is to be found in its flexibility. It can be changed to meet the needs of individual students without affecting the course content in a negative way. It can also be adjusted to meet the needs of the school. In the presentation of the course (Chapter III) the various points at which adjustment was possible were pointed out. In the modern high school class, a variety of shilities and needs are displayed; adjustment of the course content and procedure becomes necessary in order to serve each class. Thus, flexibility is a besic necessity for any high school course; it is believed that this course has that potential.

The integration of skills and the study of woostlons and the importance of broadcasting to society seem well balanced. In this respect, the course meets the criteria for high school curricula, namely, that secondary education should provide an opportunity for the student to think critically and to use knowledge effectively. In this course, the student learns skills and knowledge; he acquires a set of responses and behavioral patterns concerning broadcasting which he will use as an adult consense of broadcasting whether he becomes a professional broadcaster or not.

All students deserve training in specific skills and instruction which will help them to become more efficient individuals. The more capable students should have the apportunity to develop their special shillities for leadership in society, e.g., program directing and planning. The telement student deserves specialized training to develop those telemes for service to society, e.g., writing, acting, operation of equipment. This course of study makes provision for serving all students.

Fortmosage

Although the course of study described herein seems to be wellsuited to its purposes, there are some obvious defects which describe consideration.

First, there is too much planned for this course to accomplish.

The time element alloted to each unit is necessarily brief; it is believed to be too brief to provide for adequate study. It might be better to treat fewer facets of the broadcasting field and be more thorough in each segment. This might serve the student more adequately.

Secondly, the lack of drawatic writing and production experiences in this course might be considered a serious weakness. There are so many opportunities for developing writing skills and interpretative speech skills inherent in the drawatic areas of broadcasting.

A third weakness of this course is that it provides only two woeks for a study of television. The course should either give greater exphasis to television or delete the unit. Too little is worse than none.

Garage

In success, then, it may be concluded that this course does provide for meeting its objectives but that it does have contain weaknesses.

In evaluating any course of study, it is recognized that the proficiency with which the course is taught should be considered. This
course, as it is presented here, brings the teacher into close contact
with the personalities of the students. Exceledge of the subject and
teaching skills are of utmost importance. If the teacher is well trained
in the subject matter and in teaching methods, any course of study sutematically becomes more affective. No attempt is made here to evaluate
the proficiency of the teacher of this course.

Another factor that must be considered in evaluating broadcasting courses is the availability of facilities. The facilities provided at lies Castle Righ School are described in detail elementer in this study. They are adequate for high school use and for this course and they are superior to the facilities available in the average community.

consideration of another factor which contributes to the effectivemass of a course is the provision made for evaluating student performance
and growth. This factor is closely related to the teacher's proficiency.
It is not the grade evaluation but the critique that is effered to the
student which enables him to understand the real worth of his activity,
and what he can do to overwood the weakness of a particular aspect of
that activity.

This course of study in broadcasting as offered to the eleventh and twelfth grade students in New Castle High School is recommended to

other high schools with similar isolilities and needs.

This study has, in accordance with its stated purposes, art out to offer one such means available to sen to sharpen his ability to comprehend and assimilate the product of the communication media into modern tiduling and living. That "one small means" was a course of study in broadcasting recommended for high school juniors and semiors. Noted soons the possible semits of such a study were the acquisition of shills and understanding of these new mass media of communication. By providing such training at the secondary level, a large percentage of future citizens may:

- 1. Cain a broad, general comprehension of radio and television,
- 2. Discover thair uses and methods of control,
- 3. Investigate the skills they desend vocationally,
- 4. Decome ware of their significance for society in general.

Possible Administions for Ther Schools

While it is unlikely that any two school systems would be endowed with an identical set of characteristics, it is probable that the course of study as herein described, with adnor variations, would match the needs of a great number of secondary schools. In addition, the course is so designed that it could prove usoful for an even greater number of school systems with a few major variations.

Some specific variations may be suggested for school systems with these characteristics:

- 1. The school that finds itself attempting to meet similar goals with a minimal equipment budget,
- 2. The school that expects its radio course to serve the function of a total speech program, and
- 3. The school that saintains a speech program and, in addition, wishes to take advantage of its commercial or noncommercial television studies and personnal by offering a broadcasting course with television exphanis.

The Minisel Equipment School

The minimum equipment requirements for a course in broadcasting in a high school situation would be not by the possession of a tope recorder with microphone and amplifier attachments, a record player, and a room with movemble chairs. With this minimum amount of equipment, a course in broadcasting could be offered. It is suggested that the following almosts may be deleted from the course of study:

- 1. The assignments which place exphanis upon operating radio eminment.
- 2. The activities which require a studio set-up and techniques,
- J. The radio complete term samignames for special projects.

 Otherwise, the course can be presented from the detailed outline in the Appendix. There would need to be some change in objectives. There would be, under this plan, less opportunity for the operation of equipment. The emphasis would then be on the language skills of writing.

specially, and acting, and on the content aspects of the course, such as theory and history. The listening projects should be included. The study of the various techniques of handling the ness, the script format, the interview, and discussion types of programs, even the creating of some special formats should also be included. The sajer portion of this course could be taught with a minimum assumt of equipment. The true success of the course would depend upon the teacher's industry, skill in teaching, and incadedge of broadcasting.

The Radio Course as a Substitute Speech Program

For the school with no speech program and an interest in a radio course with a speech exphasis, it is recommended that the school possess at least the minimum amount of equipment described earlier.

The adaptation of the source to most the desired speech exphasis would require the expansion of the second unit on studio techniques.

The voice and diction work in this second unit could be expended from the recommended two weeks to as such as six weeks. This would involve the addition of a study of voice production, exercises for the improvement of vocal quality, a study of articulation, and exercises for more careful articulation. This could be followed by a study of the techniques of oral interpretation, and the development of platform poise. Exercises in oral reading adgit also be included here, but considerable oral reading experiences are provided in several of the exbequent units, including those on news and commercials.

The unit on send-scripted shows calls for two weeks; this could be expended to four weeks, if desired. This would make provision for the introduction of the techniques, of interviewing, of discussion, and of some very simple speech making.

Under this plan, the following units would be deleted:

VII. Shows for Special Audiences

VIII. Simple Physical Aspects of Broadcasting

II. Simple Talevision Projects

I. Vocations and Importance of Industry

It is believed that this arrangement of the course would provide a satisfactory design for the school which desired a speech suphasis but which preferred to offer a radio course.

The School with Access to Television Pacilities

For the school with access to television studies and a desire to offer a source in broadcasting with a television exphasis, two suggestions might be in orders

- 1. That the students should have some prior speech training, and
- 2. That the radio-tolovision course offering sight be a four-

In such a case, the first semester could introduce the student to the broadcasting media and provide training in specific skills; the second

^{*}Madio English, by Florence Felton French, William B. Levenson, and Verm Joher Rockwell, published by EcGrew-Hill Book Cospany, New York, is suggested as an evallable text for such a course.

semester could explantise the television sidlies the third could be a production course with explants upon televisions and the fourth could be a context course studying the physical aspects, and the significance of the industry. The third and fourth semesters might be reversed, if desired.

sensiter program could be arranged from the anterials presented in the Appendix. The proposed course outline could be followed and radio could be introduced only in Unit IX, with television techniques used in other units in place of radio. Unit VIII could be divided; the television parties on course, their lances, noves, shote, and commute could be expended and incorporated into the first and second units there the standard first meets studio equipment and procedures. The third unit on uniting could have a television exphasis. Projects for the prescribed course would remain such as they are presented in the Appendix. Any teacher with a humiladge of the settle should be able to single the course and make it purposedal and mentingful for the student.

these are some possible elaptations of the course of study in broadcenting which would neet specific dominds in three different school attentions. It is full that this two-senseter program possesses considershie floubility and potentiality for use in many school situations.

The books are recommend for more detailed help and with some adoptables they may even be used with high school classes. <u>India and Selevicies Vericies Named</u>. Ridney Discoul and Donald H. Anderson, published by Francisco-Hall, Inc., New York; and Polarisions Techniques for Flavoing and Parforming, Sensel L. Becker and H. Clay Resubscripe, making by Henry Holk and Company, New York.

hocomence tions

period of years in which this course of study was taking shape, several problems were noted. It is the purpose now to state those problems in the form of "recommendations for further study" in the area of courses of study in broadcasting at the secondary level of education.

First, a textbook for high school use is needed. As has been previously pointed out, the available books are theses

- 1. College textbooks are too difficult for high school use.
- 2. High school speech texts have been revised to include one or two chapters on radio and television; these are not adequate for a semester's study of broadcasting; they put the total emphasis on the speech phases.
- 3. Some English texts which include one or two chapters on broadcesting are inadequate; the total exphasis is on the language skills.

To meet the needs of the high school class in broadcasting, a textbook should include the history of broadcasting and governmental regulation. The business of broadcasting should be explained in terms the
high school student can comprehend. It should have a comprehensible
discussion of the sociological importance of the industry and have ample
information and references for vocational study. The various skills,
typical of broadcasting, such as announcing, acting, writing drawatic
and non-drawatic copy, handling the news, directing, etc., should be

thoroughly described and explained and accompanied by sample scripts, suggested assignments, and practice materials and scripts. There should be many pictures of studie procedures and equipment.

Another need noted during this preparation period is that of illustrative materials to use in the radio class. Films of actual studio procedures and equipment in use could bring the broadcasting studio into the classroom. This would eliminate the need for trips to studios. Nost communities have small radio stations, but few have large radio operations or television studios.

Another form of illustrative material that could be used effectively would be strip film showing the physical aspects of broadcasting. Large wall charts would be as effective.

Recordings by tope or disk would be most helpful to the teacher.
Recordings could be used as demonstrations of how to do various, specific types of broadcast copy; or recordings of some of the better broadcasts could be made svailable. These would demonstrate acting techniques, ness and interview skills, use of music and sound, and several styles of conservial amnouncing.

The recommendation for these recordings stems from the fact that projects assigned for out-of-class listening and visuing are seldon seccessful. The high school students of today are so busy with regularly scheduled activities during these hours that specific programs can not be accigned to a whole class for analysis. Also, programs of merit seldon some on the actuaries at the most opportune time to be utilized in class. If recordings were swallable, they could be introduced into the class.

period at the point in the course where they could be best utilized.

Another recommendation for further research was noted during the research period for this study. There is a need for a survey to determine the present status of radio and television in the secondary school. Such a survey should include course content, objectives, kind and amount of activity, and the educational philosophy under which they operate.

A fifth meed in this eres is for an agency to provide specific services and notivation for high school courses in broadcasting. Such an agency should do more than the Office of Education Radio Specialist can now do for the teacher of broadcasting in high schools. It might operate along the lines of the now defunct Scholastic Radio Guild, but it should provide more services. Some of those services that such an agency might provide would be these:

- 1. Scripts relative to current affairs and scripts adapted from the literature found in high school English texts.
 - a. Scripts should be printed in correct script form and ready for production.
 - b. Scripts might be issued on a regular subscription basis, on three-ringed paper ready for a notabook binder which classes exuld collect into series.
 - c. Scripts should be made available in quantities,
 eliminating the problem of duplication by the classroom
 teacher.
- 2. Information concerning equipment
 - a. Purchase

- b. Maintenance
- s. Operation
- 3. A regular publication which adgit be a combination of Broadcasting-Talecasting and T.V. Guide. It should include
 - a. Advance listings of worth-while radio and T.V. programs
 - b. Vocational needs and trends in the industry
 - Personality sketches of leaders in the industry other than talent
 - d. Study guides for network programs
 - e. Follow-up reviews and exitiques of metwork programs
- 4. An exchange service of classroom recorded progress and original writing projects.

These recommendations are the results of needs noted during the preparation period for this study and during the past several years as a teacher of broadcasting at the high school level.

Conclusion

In fulfilling the stated objectives of this study, some attention has been given to the mistorical development of radio station operation in educational institutions of higher learning and in the secondary school. The general observations that may be made from this study are that the two developments were almost parallel through the radio period, but with the advent of television and the ETV movement the universities moved shead of the public schools.

The historical development of curricular interest and activity in broadcasting was traced as it evolved at both the collegiste and the secondary levels. One general observation noted was that both levels of education moved in the same direction, but the collegiste level moved shead more quickly and extensively.

Soveral trands were noted at the collegiate level. One was a move toward a philosophy of professionalism in scademic training in broadesating. A broader concept toward broadesating seems to be occurring. The move is toward a concept of mass communications which includes all the mass made. This is evidenced in the trand toward separate departments of radio and television or in departments dealing with mass communication. This trand was not noted in the high schools.

From this historical study and from experience, a course of study in broadcasting for eleventh and twelfth grade students in New Castle high school was presented, reviewed, and evaluated.

A detailed outline of the course is presented in the Appendix; a report of the content, the specific objectives of each unit, and the methods for schieving these objectives are described in the body of the study.

Evaluation of the course of study, as presented, offered merits and weaknesses of the course in terms of its objectives.

Finally, possible uses of this course in three different school situations were presented, including the prescribed rearrangement of certain content units and degrees of emphasis.

Several important facts have emerged from this study. One is the veriety in content, procedures, and goals that are current in present-day curricula. Another fact is that educators and investigators agree that certain values of considerable importance are derived from both the study of and the activity in broadcasting.

The influence of local facilities and needs upon the design of the course of study has been noted in the discussion of curricular interest in broadcasting. Insteach as the secondary school must serve the needs of the students, it is perhaps good that broadcasting as a source of study evolved in this manner.

Evolving out of this study were several problems which have been framed into recommendations for research, study, and actions by those interested in these areas of activity at the high school level. Nost urgent among these recommendations is the need for a text book for use at this level.

One final observation: broadcasting as a course of study has attained academic recognition in some secondary school systems and many institutions of higher education. It would seem likely that more high schools will be adding broadcasting courses or extraourricular activities until the field enjoys a status similar to that of journalism, broadcasting's ally in the communication field.

APPENDIX I

A COURSE OF STUDY IN BROADCASTING FOR HIGH SCHOOLS AS TAUGHT AT MEN CASTLE RICH SCHOOL, 1957-53, DESIGNED FOR ELEVENTH AND TWELFTH GRADE STUDENTS WITH A SPEECH BACKGROUPD

UNIT TITLE

- I. Introduction
- II. Studio Techniques
- III. Scripting Techniques
- IV. Handling the News
 - V. Commercial Continuity
- VI. The Sexi-Scripted Show
- VII. Shows for Special Audiences
- VIII. Simple Physical Aspects of Broadcasting
 - IX. Simple Television Projects
 - I. Vocations and Importance of Industry

Objectives

Generals

- l. To provide for the general development of the personal and social qualities of the student
- 2. To meet the needs, interests, and capacities of the individual student
- 3. To notivate towards and build habits of citisenship, namely standards for conduct and speech and acceptance of one's personal responsibility to society

Specific:

- 1. To provide the student with a set of experiences that will develop his personality and enhance his own personal worth to himself
- 2. To continue his development of language skills
- 3. To widen the horizon of his interests and knowledge
- 4. To provide an opportunity for him to survey the vocational aspects of broadcasting and to determine his fitness and his interest in the field
- 5. To create an surreness of the sociological implications of the industry
- 6. To provide an understanding of the industry, its operation, and its economics.

UNIT IS INTRODUCTION (two weeks)

- A. Orientation to idea of communication between two people who can not see each other but must depend upon the oral and visual symbols received electronically
 - 1. A review of the fundamental concept of communication
 - 2. The broadcast program from talent to consumer
 - a. Hake charte
 - b. See films
- B. Orientation to one of the "big industries" in our mation
 - 1. The story of mass communications
 - a. Its history
 - b. Governmental regulation
 - e. Sime and importance today (economics)
 - d. Its significance for society
 - e. The networks
 - 2. Survey of vocational opportunities begin
- C. Orientation to a workshop type of class requires
 - 1. Consideration of others
 - 2. Punotuality
 - 3. Accuracy
 - h. Acceptance of responsibility
 - 5. Initiative
 - 6. Imagination
 - 7. Each contributes, much or little, to an end product commonly shared by all
- D. Introduction to equipment
 - 1. Give proper name, vernacular, cost and function of
 - a. Console, sikes, turntables, cables, clocks
 - b. Records, cueing, and types
 - a. Recorders, kinds and operation
 - #d. Hester control room, antenna, transmitter, petching system
 - 2. Learning to manage the equipment
- E. Introduction to studio procedures
 - 1. Studio signals
 - 2. Hendling the soript
 - 3. Eye contact with control room
 - h. Traffic in the studio
 - 5. Reading the alock

F. First simple productions (5 minutes) in teams, rotate positions

G. A radio station observed

- 1. Preview
- 2. Review

H. Set goals for the course

- 1. General experience for all in every phase
- 2. Each must specialise
- 3. Each must grow in breadth of knowledge and interests
- 4. Rach must improve language skills
- 5. Each must essist others
- 6. Each must look for vocational opportunities

I. Listening project

Unit ii: STUDIO TECHNIQUES (one to three weeks) (Reading, voice and diction unit)

- A. Listening projects and class discussion to set standards for good specking and reading
 - 1. What are the qualities of a good amounter
 - 2. What does it take to become one
 - 3. What is the difference between speaking and reading
 - h. What is remired to be an effective ad libber
 - 5. When does the studio performer speak, read, and ad lib

B. Studio exercises

- 1. Objectives
 - a. To develop skill and facility with various kinds of copy
 - b. To develop proper microphone techniques
 - e. To develop an sudience awareness of an unseen audience
 - d. To develop teem work feeling between amouncer and operator
- 2. Kinds of copy typical of radio and television demands
 - a. Straight commercial
 - b. Short nem items
 - e. Sports reports and women's copy
 - d. Read and tell a cidldren's short story
 - e. Prematic commercials in dialog or dialog from novels or plays
 - f. Mood copy and change of pace copy (dramatic narratives and humorous cosays)
 - g. IDs-work with operators cusing and the clock
 - h. Hike talks (from previous units if not already given)
 - 1. Ad libs
- 3. Marking coript

ec. Voice and diction improvement

- 1. Record and playback for analysis of the first reading above
 - a. Each enalyses his own problems and sets his goal and plans his procedures with teacher's assistance
 - b. General review and exercises for voice and diction and promunciation improvement
- 2. Expansion of unit (if needed)

This unit may be expended in any one of several directions. If necessary emphasis may be given to general voice and disting improvement. Or special emphasis may be wanted in oval reading and interpretation. In either case,

wif it is desired to expend the course during this unit, see the meet page for cutline of procedures.

most recognized speech texts for high school use will outline procedures and present exercises and practice materials. Several recommended at the end of this unit. Here is a brief outline of the study.

VOICE AND DICTION IMPROVEMENT

A. Voice production

- 1. Film by Britannica, TUR VOICE
- 2. Discussion
 - a. Respiration for power
 - b. Phonetion for tone
 - c. Resonance for quality
 - d. Articulation for intelligibility
- 3. Vocal exercises

B. Diction improvement

- 1. Families of English Sounds
 - a. Consonants (voiced and voiceless)

(1) Give meaning to words

(2) Identify production of each with sets of articulators b. Vowels and dipthones

(1) Give emotional coloring to speech

- (2) Identify with position of lips, jame, and tongue only
- 2. Exercises for each family group

C. Oral reading or interpreting the printed page

1. What is interpretation: it involves understanding and responding with one's intellect and emotions to the stimuli presented by the word and ideas on the printed page and then re-creating these responses in visual and oral symbols which a listener will receive and respond to.

2. How to interpret

a. Preparing for oral interpretation is study procedure

(1) Getting the author's

(a) Background and attitudes towards his subject matter

(b) Finding his sain point (c) Find the related sub points (d) Understanding his vocabulary

(e) Nood or feeling

b. Sharing with a listener the discovered facts and mod

(1) Each time he reads, the reader must re-create what he originally discovered. All the facts and the variations in mood, all the stimuli that originally motivated him to an understanding must be called up

(2) In order to share with a listener, the reader must project what he thinks and feels through his

(a) Voice, quality and changes (b) Face (c) Body (d) Diction, clasity

VIET III: WEITING THERITATING (one week) (misple continuity)

A. Besic elements in broadcasting

- 1. In mello
 - s. Voice
 - b. Sucio
 - e. Sound
- 2. In televialen
 - & Votos
 - b. Meda
 - e. Sound
 - d. Fiscal which moves and constinue is in color
- 3. Listening, viewing projects

B. The breadenst program

- 1. Perte and functions of each
 - a. Opening theme
 - b. Introduction
 - e. Budy
 - d. Close
 - e. Closing thems
- 2. Constal types of programs
 - a. imale show
 - b. Drawatska stance
 - e. Speech show
 - d. Varioty thou
 - a. Quin show or antiance participation show
- 3. Listening projects

C. Santus testadamen

- l. Farmit, solar sode, and mubals
- 2. Anasons for such relat

D. Witing coalgonants

- 1. Continuity (definitions and kinds)
- 2. Introductions for
 - a. Popular song
 - b. Good at coursestion
- J. "Sign on" copy for a new thor, make there, a discussion
- h. "Blan off" com

Huge this writ is not an entity in itself. After the commercial and the none (next two write) complete writing and alexophous antiguouse can be made.

VILT IV: RAMALING THE MEMS (three woods)

- A. Types of news programs
 - 1. Straight
 - 2. Cosmentary
 - 3. Documentary or dramatic
- B. Regulation of commercials in news programs
 - 1. By FCC
 - 2. By MAB
 - 3. MARTID
- C. Schedule of News programs in the broadcast day
 - 1. Radio
 - 2. Television
- D. Straight news programs for radio
 - 1. Writing techniques
 - a. Elevents that determine news worthiness
 - b. Hints for writing
 - 2. Wire services
 - a. idstory
 - b. Editing wire copy and preparing for use
 - 3. Building the news show
 - a. Opening
 - b. Closing
 - e. Arrangement of estegories
 - d. Use of trensitions
 - h. Techniques of delivery

E. The commentary

- 1. Getting the news
- 2. Taking an attitude towards it and developing a defensible presentation
- 3. Writing copy for unseen sudience
- h. Delivery
- F. The documentary or dramatic news slow
 - 1. Listening projects to determine method of building
 - 2. Writing the script
 - 3. Producing it
- G. Television news programs

UNIT V: COMMERCIAL CONTINUITY (one to two weeks)

A. A study of the business of radio and television

1. Business involves

a. Profits

b. Advertising a product

(1) Prepared by writers

(2) Artists, etc.

o. Selling that product

(1) By salesman

(2) Amouncers

d. Buyers subject to

(1) Human drives

(2) Propaganda

2. Regulation and self regulation

a. FCC

b. MAB

B. The commercial or the script

1. Classified by

a. Types of content or style or writing

(1) Action copy

(2) Residner copy or goodsill copy

(3) Educational or informational copy

b. Types of forast or production aethod

(1) One voice

(2) Multiple voice or voice contrast (not dialog)

) Dialog, usually dramatic or serious h) Novelty and comedy, usually cartoon

(5) Singing

c. Types secording to time scheduled

(1) Station break commercial (110-120)

(2) Spot (between programs) (130)

(3) Hitch hiker or trailer, comes after program sponsored by company that solls more than one product

(h) Participation spots (130), several sponsors for one program

C. Writing the commercial

- 1. Elements of style
- 2. Some mechanics
- 3. Projects in listening 4. Assignments for writing

D. Delivering the commercial

- 1. Styles of delivering the commercial
 - a. Punch
 - b. Semi-punch
 - c. Straight
- 2. Mike ani camera assignments
 - a. With commercial copy
- b. With their own copy 3. The job of the announcer
 - a. The daily routine
 - b. Qualifications and training required
- h. Projects in listening

			-

UNIT VI: THE UNKRITTEN OR UNECRIPTED SHOW (two weeks) (or send-scripted)

A. The on-the-spot program

- 1. Sports
- 2. Other special events
- 3. News

B. Interviews

- 1. Planning
- 2. Propering
- 3. Producing
- U. Discussion and other statler force
- D. The contest and endience-participation show
- E. The demonstration
- F. The telk

UNIT VIII CREATIVE PROJECTS OF SPECIAL SHOWS (one wook)

A. Special shows for special sudiences originated

- 1. Lise jockey or music shows
 - a. Popular music
 - b. Serious music of various kinds
- 2. Shows for children
 - a. Story talling
 - b. Crafts
 - e. Misle or postry
- 3. Shows for women
 - a. Foods
 - b. Fashions
 - G. Lione care
 - d. Child cere
 - e. Music, art, poetry, literature
 - f. Home commentary
- L. Shows for man
 - a. Sports
 - b. Commenteries
- 5. Shows for teenagers
 - a. Misio
 - b. Discussions
 - e. Careers
- B. Adaptations of literature to radio and television
- C. Original writing of the drawatic show

UNIT VIII: SIMPLE TECHNICAL ASPECTS (two to three weeks)

- A. The path of the radio program from talent to listener
- B. Radio broadcasting
 - 1. The studio
 - 2. The microphone
 - S. Types
 - b. Function of each
 - 3. The related equipment
 - a. Console
 - b. Transmitter
 - e. Anterna
 - h. Transmission and the electro-magnetic spectrum
 - a. Cycle and frequency: new words
 - b. Asplitude and frequency modulation
 - c. The FOC and assignments
 - 5. Some films
 - 6. The radio station staff and organisation
- C. The path of the television program from talent to listener
- D. Television broadcasting
 - 1. The magnetic spectrum
 - a. UiF
 - b. VIF
 - e. FUC assignments
 - 2. The camera chain
 - a. The camera
 - (1) Its lenses
 - (2) Its movement and commands
 - (3) The Brets box
 - b. The related eminment
 - 3. The other technical aspects
 - a. Lighting, costume, and make up
 - b. Visuals, graphics, and art
 - e. Audio, music, and sound
 - d. Use of film
 - h. The television team
 - a. Henbers
 - b. Jobs
 - 5. The television soript
 - A. Forms
 - b. Marking techniques
- E. Radio and television
 - 1. Comparison of what they can and can not do
 - 2. Their contributions and effects upon society
 - 3. Conclusion projects about careers

UNIT IX: TELEVISION PRINCIPINE (one week)

A. Scripts

- 1. Prepared in earlier units
- 2. Video portion added now

B. Equipment

- 1. Use Brets boxes
- 2. Use duary casers
- 3. Use visual materials

C. Programs

- 1. The one-winute commercial
 - a. To become accustomed to talking to a camera
 - b. To become accustomed to taking suce from floor director
- 2. Drawatic commercial
 - a. To utilize the two previously acquired skills
 - b. To add the dramatic element
 - e. To develop susreness of the camera but not talking to it
- 3. The norm allow
 - a. To continue radio skills, pictures, and made
 - b. To become free of copy
 - e. To integrate skills acquired in first productions
- d. To develop exercises of contribution of pictures to the story
 - A. To use skill of being some of camera but not talking to it
 - b. To develop skill of keeping guest in the picture
- 5. A demonstration of a simple appliance, tool, etc.
 - a. To provide opportunity for tulent to time his movements and plan shots of object
 - b. To become accustomed to thinking about how an object appears on camera
- 6. A drematic scene by partonine with music end/or voice in background
 - a. To develop acting tecimique
 - b. To develop sense of timing and averages of camera's dramatic possibilities

D. Production staff assigned

- 1. Two cameranen with Brets boxes
- 2. Floor director with earphones from control room if there is radio set-up
- 3. Director who works with Brets box instead of a suitching penal. he calls over the corphones
- he Andio operator
- 5. Art director who doubles as stage hand

UNIT IS VOCATIONS AND SIGNIFICANCE OF INSUSTRY TO SOCIETY (one week)

A. Vocations

1. Listed during study of each unit

2. Each student chooses one to investigate

3. Prepares report in written form which is now due

a. Bibliography due

b. Takes part in radio or television panel discussion about vocations

B. Sociological significance of industry

1. Students work in committees during semester
a. Prepare bibliographies and do research

2. They report to the class their findings in the form of a panel

a. Piret panel performs and class asks questions

b. Second time questions are enswered

c. One penel member and one not on penel pair together to prepare suggests of findings

d. Several pairs present final sussaries as to sociological significance

(1) The non-panel member reads the report and the panel member answers questions

e. Pairs then prepare one final sussary in written form and sometimes may visit other classes with their final, oral presentation

This concludes the basic course in radio offered in Her Castle
liigh School to eleventh and twelfth grade students who have had some
speech training. The course was presented in the three-studio arrangement as described earlier. A second semester is offered irregularly,
when enrollment warrants the offering. For the second semester an outline
is presented here. It is not described in Chapter III because this study
proposed to examine only a basic course in broadcasting.

Here are the time segments for each unit as followed at New Castle High School.

FIRST SELESTER

Unit	Title	Vesice Required
1.	Introduction	2
II.	Studio techniques	2
m.	Writing techniques	1
IV.	The news	3
7.	Commercial continuity	1
VI.	The semi-scripted show	2
VII.	Shows for special audiences	3
AIII.	Simple physical aspects	2
IX.	Simple television productions	1
x.	Vocations and importance of industry	1
	SECOND SELESTER	
n.	Listening-viewing projects	2
III.	Dramatic production	8
IIII.	Creative dramatic writing and adaptations	8

SECONO BE ESTER

UHIT II: LISTANING-VIRGING PROJECTS

A. Procedures and purpose

- 1. Assignments not concentrated into one unit but scattered throughout both semesters with special emphasis at this point
- 2. To synthesize perspective and standards of appreciation and evaluation

B. Evaluations

- 1. Based on these points:
 - a. Besis idea behind the program
 - b. Writing techniques
 - e. Production and performance quality
 - d. Significance of program to audience
- 2. Reported for these types of shows
 - A. Neus
 - b. Commentery
 - s. Serious dress (single progress, not one in a series)
 - d. Conedy drama
 - . Variety
 - f. intale show
 - g. One special program for a special andience such as a children's show, a sports analysis show, etc.

WIT III PLAT PROMUTICE

A. Kinds of programming

- 1. Streight shows
- 2. Unscripted thous
- 3. Dramatic shows
 - a. Drama
 - (1) Serious
 - (2) Henorous
 - (3) Tragedy
 - b. The documentary

B. Regulzements of the drawn

- 1. Plot which includes a conflict and a climax
- 2. Characters, a protogoulat and an antagoulat
-). Setting h. Hessage

C. Menesto of radio dramatic production

- 1. Yakee
 - a. Marrotine
 - b. Acting
- 2. Marie
- 3. Sound

D. Vere of music and sound in the play

- 1. To articular place, time, and mood
- 2. To suggest action and passing of time
- 3. To execte unrealistic affects h. For transition from some to asses
- 5. An a typedo mark
- 6. A mentage 7. Per conf.s effect

E. Procedure through releasests

- 1. Anditions
 - a. Director hours anditions, casts, and summunous first rebeereel
- 2. First rebessed (a reading rebessed) director either
 - a. Reviews the play and enalyzes the characters, then gives cost soulgaments
 - b. Lake for cold reading of the play or he seeigns parts, briefly analyses characters and dismisses cost to propero parts

- 3. Before the next meeting of the cast, director meets his technical staff, music and sound
 - a. Reviews the story
 - b. Lists his needs
- 4. Second meeting of the cast
 - a. Total reading of the play for finency and tiving and to set characterisations
- b. Director plans outs and fills to meet time requirements
 5. Pirector suditions and times
 - a. Misic
 - b. Sound
 - o. Tecimical scripts properly marked
- 6. Third meeting of cast
 - a. Director reads script changes to cast
- b. Cast has first studio renegraal without sound and music 7. First dress renegrael.
 - a. With cast, sound, music
 - b. Director works for continuity, timing, and sharpness of surel picture
- 8. Final dress rebeared
 - a. Polishes
 - b. Permits short break
 - a. Records or is on the sir

F. Responsibilities of the director

- 1. Tising the show
- 2. Flamming the overall production
- 3. Giving directions that are clear
- L. Refining characterisations
- 5. Providing adequate scripts

G. Responsibilities of the performers

- 1. Cooperating with others in cast and ever
- 2. Following of director instructions
- 3. Paying attention and keeping quiet in studio
- h. Keeping his cam sight-line to the studio clear

UNIT XIII: WHITING AND ALAPTING FOR MADIO AND TELEVISION

A. Kinds of drematic scripts

- 1. By length of time
- 2. By style of treatment
 - a. The dramtic play
 - b. The consciy
 - c. The serial
 - d. The documentary

B. Writing the original draws

- 1. Getting the idea
 - a. Should express a belief portrayed through characters, behavior
 - b. Can be obtained from a title, a person, an experience, an observation
- 2. Think through the idea
 - a. Who does what to whom and why, and under what circumstances?
 - b. Become acquainted with these people by writing character sketch
- 3. Outline the plot, some by some
 - a. Establish problem early
 - b. Be sure each scene advances the conflict
 - e. Make sure each scene is justified and logical
 - d. Be sure that the climex is relatively important as the conflict versents
- 4. Write each acene as a unit
 - a. Make first one move fast, give all specifics
 - b. Flan so that characters have time to change costumes if writing for telefision
 - e. Be sure, if writing for redio, that either made, sound, or dialog keeps listemer informed as to who is speaking and where action takes place
 - d. Keep dialog matural
 - e. Fon't overdo the directions for director and performers, allow some interpretation
 - 1. Don't stray from story line
- 5. Plan transitions by narration, music, or sound
- 6. Produce 1t

C. Comedy treatment

- 1. Kinds of comedy
 - a. Comedy based on gags
 - b. Comedy based on characters
 - e. Comedy based on situations
 - d. Comedy based on Adeas

2. Treatment should be decided when idea is essectived (Gas idea best be portrayed to viewer-listener by a serious er comic treatment?)

D. The documentary or dramatic new about

- 1. Collecting the various ness items or historical events
- 2. Arrenging in secumos
- 3. Writing each scome as a drematic unit
- 4. Planning transitions in copy, maie, sound, or pictures
- 5. Production

E. The adaptation

- 1. Pasters to be decided easily in any semance
 - a. Time length
 - b. Medias radio or television
 - e. Literary selection
 - d. Production capabilities
- 1. Find the selection that meets above regularizates
- J. Fallow procedure as though the story idea were your original
 - a. Get the main idea
 - b. Write character sietabes
 - e. Outline by seemes
 - d. Write dialog
 - e. Plan transitions

APPENDIX II

SUGGESTED STUDENT PROJECTS FOR EACH UNIT OF STUDY IN THE COURSE

Unit I

- Make it a habit each week to read an article about the broadcasting industry. Select your article from newspapers and magazines. Keep a record of your reading and a brief note about the article. Comment about it in class.
- 2. There will be some assigned listening-viewing projects. When there are none, make it a habit to see and hear something daily that is not on your regular schedule. Out acquainted with as many different types of programs and stations as possible. Try to evaluate them in terms of your work in radio class.
- 3. Hake sketches or collect pictures showing the broadcast process, stop by step. Put in your notebook.
- h. Keep a list of studio signals and their meanings as they are introduced in class projects.
- 5. Choose a topic for research that is related to the history, economic, political, or sociological importance of the broadcasting industry. Plan a short microphone talk or group discussion on this topic. Here are some suggestions; others may be put on the board in class:

For mike telks:
The invention of the wireless
Edgar Lee DeForest
The first radio station
The invention of the microphone
The networks: operation
History of NEC or CES
Technical achievements which
made radio possible
Hoving, sound pictures, a history
Color television
Radio critics: John Grosby and
Jack Gould.

For discussion:
Why was FUC necessary?
History of HBC or CBS
Are networks dangerous?
Does TV influence voting? and buying?
Careers in acoustical engineering
Why is broadcasting expensive?
Does radio-TV advertising pay?
How have radio, TV affected family
life?
How can people listen and view

more effectively?

What's sheed for broadcasting?

- 6. Begin a chart of possible vocations in the fields of radio and television. Make page one for radio; page two for television. Braw several vertical lines, making columns on each page. Column ones name of job; two, brief description of work required; three, training required; four, possible salary; five, availability of jobs for mon and women; six, brief note as to your fitness and interest. This project will not be completed until the end of the semester, but keep filling it in as you progress through the semester.
- 7. Make a survey of the listening-viewing habits of your friends at school and your neighbors or your community. Block it out so that there is no wasted motion nor overlapping of information. A well organized survey can be beneficial in several ways. If it covers a sufficient area of your community or number of people to be representative, your school or community newspaper wight be interested in your results.

Plan your survey in an orderly manner. Use the whole class, but a planning or steering constitue will have to be appointed or made up of volunteers.

First, plan your basic structure of the survey; then plan your questionnaire.

Your structure can be designed on the basis of geographical areas or by telephone. If by geographical area, assign each surveyor a specific block or two in his neighborhood. If by telephone, someone should call at the local office and make necessary arrangements. This is usually a courtesy call on your part; but the telephone company can give you service on how to proceed and they will appreciate your consideration. Assign each student a number of pages in the directory for which he is to be responsible. On a pre-set plan, give the same instructions to all. This is an example. Suppose you decide that sixteen calls per student is the asxisma load for one evening during a two hour period. Require each one to call the numbers that appear on lines seven, fourteen, and twenty-one in each column of the pages for which he is responsible. Your steering committee will work out other details, such as how many times a caller should try a number before quitting and what to do if the number is a business phone.

Next, work out the questions and the introductions to be used. This must be done systematically and all alike. Be business-like but be courteous. Give sufficient information to the person being called or called upon that he will cooperate with your project, but don't waste his time.

Finally, a constitue will have to do the analysis work. All results will be carefully prepared and prosecuted to the constitue; then the constitue should tabulate and make conclusions. These will have to be presented in written form to the class.

This project will involve a number of skills you have acquired in other classes, such as conversational skills and telephone usage. If you plan esseably, your results and findings can be of value also.

Unit II

- 1. Frequently record and analyse your voice and diction, your microphone reading and speech. Keep a record of your reactions to each performance. If you can get a friend to add their reactions, this will help.
- 2. Note it a habit to read orally everyday. Set up a drinking glass on a table in front of you. Pretend that it is the microphone. Head or talk to it, but keep in sind the unseen sudience to whom you are talking. Imagine their actions while listening to you; imagine their mental responses to your accesses.
- 3. If you have had little work in story telling or public speaking, got a textbook and read those partinent chapters. Find out how to plan your short story and your speech before you parform.

Unit III: Writing Simple Continuity

- 1. Listen to a redio program. Keep a running time on the sequence of the parts of the program. Can you identify each part? Did the program follow the standard sequence? If it did not, in what sequence were the parts arranged?
- 2. Do the same project for television.
- 3. Collect and put in your notebook, a schedule of progress for a small local station and a large, setropolitan, network station. What differences do you discover in the progress?
- h. Select two stations, one small, local station, and the other a large metropolitan, network station. On a map draw an area which represents the coverage of each station. Then write an analysis of the audience make-up for each station and indicate the type of programming you would schedule if you were program director of each station.
- 5. To practice your ability at writing scripts properly, write the following:
 - a. A twenty-second piece of continuity to introduce a currently popular tune
 - b. A thirty-second introduction of a recent convocation guest who is now appearing as a guest on the local radio station
 - c. A frame for the following types of shows: a news show, A DJ show, a panel show. Your opening and closing should not take more than a total of two minutes; it should include your theme song, the show's title, today's feature, a sponsor's name, product, and tag line but no commercial. Write the continuity for yourself as the amouncer. Heep these frames in your notebook. They will be used during the next several units of study.

Unit IV

- 1. Flan to hear one radio (or television, if approved) show for at least five consecutive days. Keep a record about the program partning to those items. Were there any differences in the personality or style of approach on any specific days or in dealing with any segment of the new? Did he seem to be more at ease in any one segment of the news than any other? Did he keep the same arrangement of categories of news each day?
- 2. Flan to hear or see examples of the basis three types of news shows.

 In what ways do they differ in purpose and value? What are the writing and production problems inherent in each?
- 3. Read the FUC regulations concerning commercials in the radio and television program. Liscuss in class why the FUC made these regulations. What changes would you recommend? After reading these regulations, hear or see a news shows pay particular attention to the placement of the commercials and their content.
- 4. Look up the history and the function of the Metional Association of Broadcasters. Pay a visit to your local station and find out what their relationship is to the NAB.
- 5. If possible, plan to hear as many news broadcasts as you can in one day from a chosen station. Note what items of the news are repeated. Is the same copy or a rewrite? Do you detect any other differences? If so, can you explain why? Perhaps a group or committee in the class will volunteer to record a series of broadcasts on a predetermined day from one station; then the whole class can hear and analyse these progress.
- 6. Firs a consistee of several members to record a number of news shows from different stations on the same day and at the same general news period. An evening news program is recommended. Bring these to class and analyse. What seem to be the differences in the treatment of the days a news? Explain.
- 7. Write and deliver a major news item from your school or community in a mixty-second story. Rewrite it to fit other time segments.
- 5. Bring a six to eight inch long news story from your local paper to class. In a pre-fixed time element, such so den minutes, rusrite this story for broadcast. Set yourself an air-time length, such as forty-five seconds.

- 9. In some communities, a radio or television station is owned by the newspaper. If this is true of your community, study for several evenings the dinner hour news broadcast. Compare it with the evening newspaper. On a specific day, the teacher or some one student may record the show, but other members of the class should not listen to it. Instead they should study the newspaper; then plan a broadcast from that day's news. If possible, assign someone to obtain from the station a copy of that evening's script. Now compare your script, the newspaper's script, and the recorded show.
- 10. If arrangements can be made with the local station to obtain some wire news copy for several days, practice "stripping the machines." See how rapidly you can identify each segment that comes over the wires and put on the proper hook. Practice reading all these types of copy. Begin with the spot summary. Edit the five minute copy to three minutes. Edit the five minute copy and plan as a show that has a sign-on and sign-off.
- 11. Working as a committee, several should work with the fifteen mimite news. One newscaster can specialise in the local news; another in state; another in national and international; one in sports, weather, or women's copy. As many as are desired can work in this team.

 Each one will introduce the next one. Plan your frame for a regular show. Make a copy for your operator; then try running the show several times. Add a commentator if this seems desirable.
- 12. Hear a commentary program. Plan to build an answer to this show or build a show that supports the other side of this question.
- 13. Study several commentators who are heard in your area. Gan you identify their points of view and their differences of opinion? Two students may be assigned to plan commentaries that disagree about some local problem, school or community. The class can hear and decide which one made the more valid presentation. Which one would your community be more likely to accept? Would either one be accepted by a local station?
- lk. Study the biographies of several noted commentators. What experiences led them from straight news work to commentaries? What would you say is the most important aspect of a commentator's training and abilities?

Unit V

- 1. Make a cursory study of as many magazines in the broadcasting industry as you can. Write a brief review of what phase of the industry it especially covers. Compare notes in class.
- 2. Hake a collection of as many commercials as you can. Practice them daily.
- 3. Collect as many commercials as you can. Make a study of these. Now many times was the sponsor's name given? If a local firm, how many times his address or phone number were given? How many times was the product mentioned? Can you discover any patterns as to where these items are placed?
- i. Listen and view several commercial programs. What proportion of time was given to commercials and to the program? Were these commercials separated from the program or were they integrated into the program? Which do you prefer? Why? Do you think your preference is the popular preference of people or not? Can you determine why a sponsor or producer will decide on either method of inserting commercials into a program?
- 5. Write and practice delivering the following commercials:
 - a. Thirty second, action copy for a single voice for a local business and for a national firm.
 - b. Thirty second, good-will copy for a local firm and a national firm or product.
 - e. Thirty second, educational copy for a local and national firm.
 - d. Repeat the above projects in sixty second copy.
 - e. Write sixty second, education, two voice copy for a national product.
- 6. Practice timing commercials and working with an operator who gives the ID. Out copy from your local station. Begin your practice session with the sign-off of a program, the spot before the ID, the ID, the sign-on of a new program. Work in teams of operator, announcer for the program and commercial operator.

Undt VI

- 1. Listen and hear special programs in which there is a special report given that is ad libbed. Sports programs, news events, special community or church affairs, events of particular interest to women are some ideas for such programs. Keep a record of what you hear. Do you note any similarities in such programs? Observe the vocabulary used. Note how the speaker is able to make you think you are there. How does he achieve this illusion? Can you determine how it is done?
- 2. Record several of these programs and bring to class for class analysis.
- 3. Practice reporting events in your school or community in this fashion. Hold an article in your hand as though it were a microphone. A pencil, a small glass, the asset-off end of a broom handle are suggestions for an imitation wike. Talk to it. Resember your microphone techniques learned earlier. Talk to your sudiences be sure you have an andience in mind. Some ideas for these practice sessions are:
 - a. An honor seard being given to your ster ethlete at a convocation is being recorded for broadcast over a local station. You are the announcer.
 - b. Any major event in your community.
 - e. Try an event you have never seen, but perhaps have read about, have seen on television or in the movies: the launching of an atomic submarine, a missile launching or a morn-shoot which you are privileged to observe, a fashion show, the laying of a corner-stone for a new public building in your community or state.
 - d. Try reporting on a situation which needs some kind of community action. Can you make such a report, keep it factual, unbiased, unemotional? From a venture point, describe the situation in front of your high school building which calls for additional traffic police or traffic lights.
- 4. For the boys who are interested in sports amounting, first be sure you know the rules and the vocabulary for the game you want to amounte. The more games you know, the more in demand you will be. For practice, here are several suggestions.
 - a. Turn the sound off on your television set when there is a game being broadcast. Try to follow and exnounce it.
 - b. Your teacher can obtain a film of some game for you. Turn the sound off and announce the game. Record yourself. Then play back the recording and the sound track of the film. Compare and then plan your own training program.

- c. Try to read every referee signal when you are at a game. In your mind, follow every play, describe it for a listener. Perhaps your teacher will let several of you take the tape recorder to a football or basketball game. Four of you can record; each one announce a quarter of the game. Perhaps your coach, your teacher, a local sports announcer will sudition the playback of your announcing and make suggestions for your training program.
- 5. If you are interested in sports amounting, read several of the references on sports amounting. Make a collection of articles from magazines and newspapers by and about successful sports amounters.
- 6. For the girls who are interested in this type of amnouncing, here are some suggestions. First, become an expert in some area: art, home decoration, food preparation, fashions, music, child care. Head from the reference list in the Appendix. Make a collection of articles from magazines and newspapers by and about successful women on radio and television in these areas. Study their techniques. You should practice on topics you can handle. Record yourself. Ask some adult, a specialist in that area, if possible, to sudition your work and advise you on a program of self improvement.
- 7. Imagine that you have an interview program on a local station each week. Your guest is some high school student who has distinguished himself. Plan your interview. Remember your adult audience does not know this student and your school situation as you do. Can you mustain an interview for ten admutes and keep it interesting and informative?
- 8. Each student in the class should adopt the name of a rather wellknown person living today, some one about whom it will be possible
 to gather information. Put your name and that adopted name on a
 card. Place your own name at the top and your adopted name at the
 bottom of the card. Your teacher will collect and record the pairs
 of names. She will detach the top half, which has your own name on
 it. Then each member of the class will draw a name. That name is
 the person who will be their guest on a series of interview shows.
 After research is done, you will turn in your outline. Then your
 teacher will identify each of you. Conferences may be held.
 Interviews will follow.
- 9. Listen to some interview programs. Note how the interviewer keeps the interviewee doing most of the talking. Note how the interviewer keeps the conversation moving along some planned outline. Can you follow his plan? Note his techniques or methods in asking questions. What does he do with the answer to the question?

- 10. For planning public address experiences over the adcrophone, see any high school speech text. Or, try giving instructions or empouncements in class.
- 11. For demonstration practice, see the suggested activities in Unit IX.

Unit VII

There are no suggested activities for this unit presented here because the unit is an activity, not a study, unit. These activities were described in the presentation of the content, procedures, and goals for each unit in Chapter III.

Unit VIII

- 1. Make a Brets box. (See footnote, this unit, Chapter III).
- 2. Hake a dumny television camera or a mock-up camera. (See footnote, this unit, Chapter III).
- 3. Visit a radio or television control room and have an interview with the engineering staff. Prepare your questions before you go.
- 4. If you have access to a movie camera, try some television samera tenindenes with it.
- 5. Read the rules and regulations of the Federal Communications Communication pertaining to allocation of charmel academicate.
- 6. Study a chart of the electro-magnetic spectrum and the location of the various kinds of broadcasting.
- 7. Visit an asstour redio operator when he is broadcasting.
- 8. For plotting station coverage maps, for ideas about Fd station opportunities for your school see <u>limitorick</u> of Broadcasting, Waldo Abbot and Edward L. Rider, New Yorks inchres-nill Book Company, Inc., pages 196-197.
- 9. Obtain copies of the following publications for your class evalished from the Government Frinting Office, Washington, D. C.:

The Communications Act, 1935 Fuelic Service Responsibilities of Broadcast Licenses Study Outce and Reference Amnel for Communical Radio Communication

Available from Mational Association of Broadcasters, 1771 N Street, N. W., Waskington, D. C.&

Fadio, USA The Television Code The Radio Code

Unit II

- l. Plan to visit a talevision station. Pay close attention to the equipment. Find out if you can talk with the staff personnel. If you can, go prepared to ask questions. Pake arrangements to sit in the control room during a production. Pay attention to the commands of the director. If possible, go into the studio and watch a crew setup for a production. After you return, discuss in class. Your teacher may plan some report projects.
- 2. Write a report on the individual jobs in the television team.
- 3. Watch a television show with a group. Analyse its picture composition and use of camera lanses.
- i. Select a short dramatic sequence from a play which you know well. Try to chart the use of the camera as though you were a director. Can you discover the dramatic possibilities of the camera?
- 5. Write a one minute commercial for television in which you make a talk for a product. This is a talk and not a demonstration. Using only one camera, plan how you would use various shots and lenges to make the talk more interesting.
- 6. Write a one simute commercial showing a product's usefulness.

 Demonstrate the product. Flan the production of this commercial with two cameras. You produce it as though you were the floor director and another student is the talent. Then change positions. Can you concentrate on the "take" lens?
- 7. Plan for a three minute interview on television. Choose a member of your class and interview him about the tour to the television studio or about your work in this class in television. Use your parents as a possible sudience.
- 8. Plan a pentoxime of a children's story. Using matical background, or main and sound, integrate these elements for a television production. Use only two cameras. Plan your camera work. Use only one pesson as telent. Keep your story simple.
- 9. Flan an original dracatic idea for similar pantonine production.
- 10. Plan a two-voice or dramatic sequence for a two-ogners show. Keep the scene very short and simple.

Unit I

- 1. Go to a commercial station and take an audition for a position on that staff. Report your experience to the class.
- 2. Have a professional from the field of broadcasting come to class and talk about the work and training requirements necessary.
- 3. Find out that the FCC meant by using in its regulations, these words, "public interest," "commensue," and "necessity."
- h. Can you identify what types of programs or what popular programs would come under each category?
- 5. Read and report to class on some study that has been made about the effects of television upon the American people? Find out what effect radio and television have had upon newspapers and library circulation, the movies, travel, education.
- 6. Discuss in class thy the broadcasting media influence people.
- 7. Investigate the history of other communication media, such as the printing press, the movies, the commun, the magazine, the telephone, etc.

APPENDIK III

READING REFERENCES FOR THE STUDIEST FOR EACH UNIT OF STUDY

Unit I and I

HISTORY OF PARTO AND TELEVISION

- 1. Abbot, Waldo and Rider, Richard L. Handbook of Broadcasting.
 (Hear Yorks McGran-Hill, Inc., 1957, 4th ed.), Chapter 28.
- 2. Barnous, Eric. Mass Communications. (New Yorks Rinshert and Company, 1956), pp. 1-47.
- 3. Chester, Chrend and Garrison, Garnet R. Budio and Television—An Introduction. (Her Yorks Appleton-Century-Crofts, 1950), Chapters 2 and 3.
- h. Head, Sydney. Prosdessing in America. (Bostons Houghton Hifflin Company, 1956), pp. 91-12h and 135-16d.
- 5. Kingson, Walter K., Compill, Rome and Lavy, Ralph. Broadcasting Television and Radio. (New York: Premtice-Hall, Inc., 1955), Chapter 11.
- 6. Phillips, David C., Grogen, John M., and Ryan, Earl H. <u>Introduction</u> to Ratio and Television. (New Yorks Ronald Press Company, 1954), Gispter 1.
- 7. Waller, Judith G. Radio-The Fifth Estate. (Hes York, Houghton Hifflin Company, 1950), Chapter I.
- 8. Willis, Edger E. Foundations in Broadcasting. (New York: Oxford University Press, 1951), Chapters 3 and 16.

SPATICUS AND NEITHORS AND THE ACCITY

- 1. Chester, Circul and Garrison, Garnet R. Redio and Television—An Introduction. (New Yorks Applican-Century-Crofts, 1950), Chapters 7, 8 and 14.
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- J. Kingson, Valter K., Cowgill, Rome and Levy, Relph. Broadcasting Tolovision and Rodio. (New Yorks Prentice-Hall, Inc., 1955), Chapter 13.
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 Introduction to Radio and Television. (New York: Roseld Press

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THE BUSINESS OF BROADCASTING

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- 3. Phillips, David C., Orogan, John H. and Ryan, Barl H. Introduction to Radio and Television. (New Yorks Ronald Press Company, 1954), Chapter 12.
- 4. Waller, Jadith C. Radio-The Fifth Sutate. (New York: Houghton Edifilm Gospeny, 1950), Chapter 19.
- 5. Willis, Edgar E. Foundations in Broadcasting. (New Yorks Oxford University Press, 1941), pp. 77-68.

THE CONTROL OF BROADCASTING (FCC AND HARDS)

- 1. Chester, Giraud and Carrison, Garnet I. Radio and Television—An Introduction. (New Yorks Applican-Concern Croits, 1950), tempers 6, 20 and 11.
- 2. Miberic, H. L., and Lawton, Sherman P. Broadcastings Radio and Tulsvision. (New Yorks Thereor and Brothers, 1952), Chapter 6.
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- 5. Phillips, David C., Grogan, John H., and Ryan, Earl H.
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 Company, 1954), Compter 9.
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- 3. Choster, Giraud and Garrison, Garnet R., Radio and Television.

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- 6. Bubbell, Richard W., Television Programming and Production.
 (New York: Hurray Hill Dooks, Inc., 1945), Chapters I to 3, inclusive.
- 7. Stacheff, Edward and Brets, Budy, The Television Program. (New Yorks A. A. Wyn and Company, 1951), Chapter 1.

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- 1. Discord, S. A. and Anderssen, D. M. Radio and Television Workshop Farmal. (New York: Prentice-Hall, Inc., 1952).
- 2. Bernhart, L. D. <u>Problems in Amounting for Radio and Television</u>. (Evenstone Student Book Exchange, 1950).
- 3. Boardman, Gail. Oral Communication of Literature. (New Yorks Prentice-Hall, Inc., 1952).
- 4. Compare, Moiree. Living Literature for Oral Interpretation.
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- 8. Keplen, Hilton Allen. Radio and Postry. (New York: Columbia University Press, 1949).
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- 10. Lowery, Sara and Johnson, Certrade E. Interpretative Reading. (New York: D. Appleton-Century Company, 1942).

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- 3. Griffith, Francis, Melson, Catherine and Stasheff, Edward.

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Unit IV

WHITING, REITING, AND ANNUAUTHO THE NEWS

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APPEIDIX IV

HEADTHO REFERENCES FOR THE TEACHER

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This bibliography is included here for any possible use it might have for the person interested in planning course work in broadcasting for a high school class. It contains books which the teacher may find useful as background information and books to which the high school student can be sent for reference reading. To make this bibliography more useful and specific, the following legend is used. The letters which appear at the right margin identify that book as to its primary usefulness.

- T Recommended for teacher's reference only
- I Frimarily a textbook
- P Froduction aid materials and instruction
- H Fractice materials and exarcises for classroom use
- Y Has vocational approach and materials
- A Art and music on radio and television
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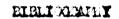
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Finally to the reader-

The teacher of a radio course or unit in high school will need a working acquaintence with play anthologies, perodicals and articles on the subject, and speech texts which include chapters on the teaching of radio and/or television in high school either in the formal course of study or through an activities program.

The teacher should include these materials in his research and study in preparing to teach such a course. There is a wealth of such materials which have not been collected, adapted and arranged for use in high school.

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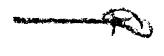
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CHAPTER II

THE HISTORY OF BROADCASTING

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