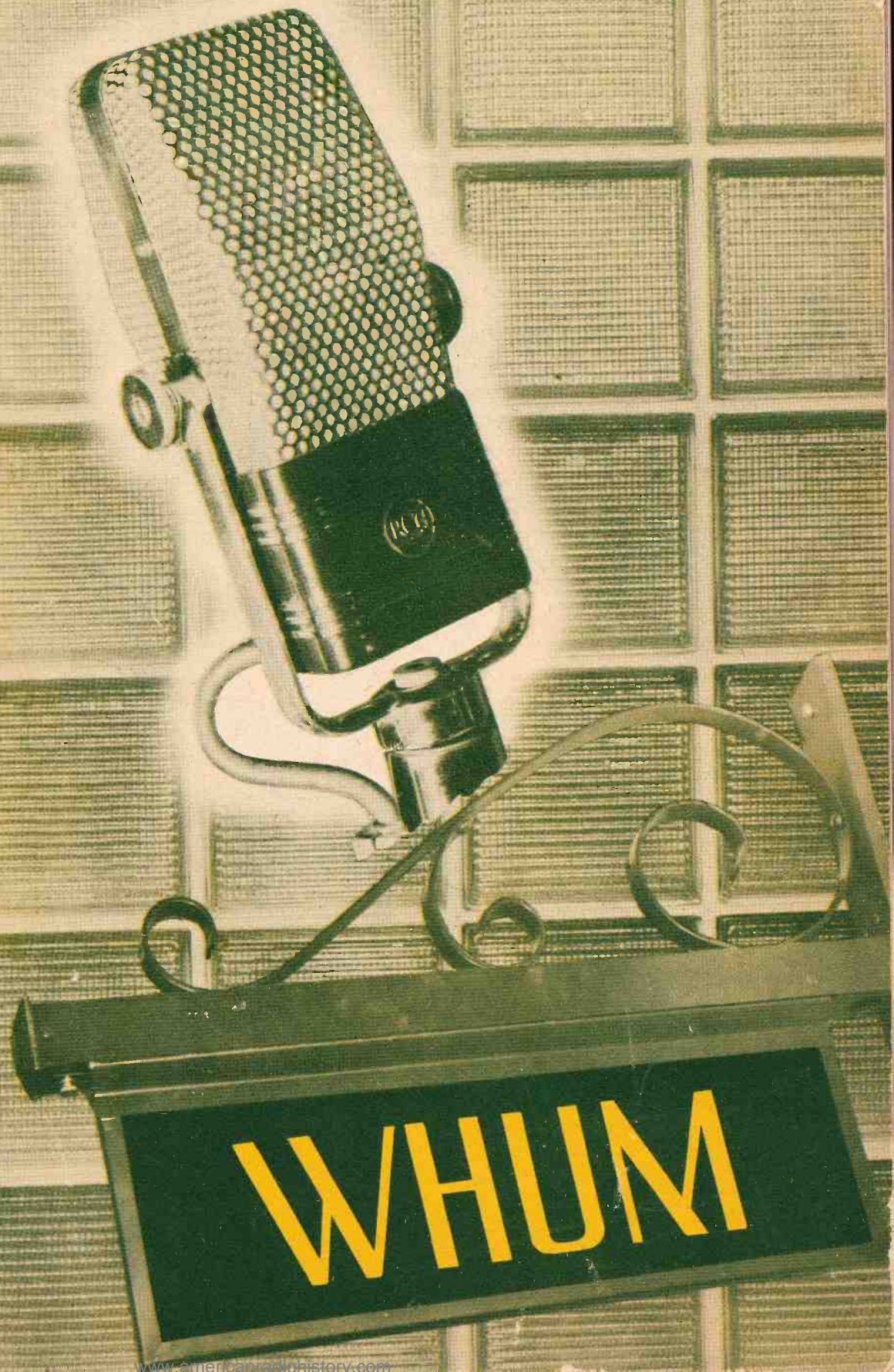


**"GOING FORWARD WITH RADIO"
AS PRESENTED IN COOPERATION WITH:**



A Message from
ROBERT G. MAGEE
Vice-President and
General Manager of **WHUM**



WHUM

Berkshire Hotel
Telephone 44-805

READING, PA. . . . HUMMING WITH INDUSTRY AND AGRICULTURE

A Basic Station of The Mutual Broadcasting System

OFFICE OF THE VICE PRESIDENT

Dear Reader:

Radio Station WHUM and its entire staff are happy to cooperate with the publishers of "Going Forward with Radio" in welcoming you to the world of radio as expressed in these pages. We hope your pictorial trip through these pages will be a happy and profitable one, and that it will serve to answer many of the questions about radio which you have undoubtedly been asking.

WHUM, new to this community, is thoroughly aware of the responsibility it has assumed in taking over the position of 1240 on your dial. Utilization of the air-waves to broadcast a station's programs demands that that station serve the public which is its audience. It is the underlying thought behind each second of our air-time to bring YOU, the radio audience of Reading and Berks County, the best entertainment that radio can provide, plus the service, personal and municipal, which is our obligation. It is our constant endeavor to continue to deserve the slogan which we have adopted . . . "This is WHUM, the Voice of Reading."

Sincerely yours,

Robert G. Magee
Robert G. Magee

RGM/shb

The Voice of Reading

Compliments of

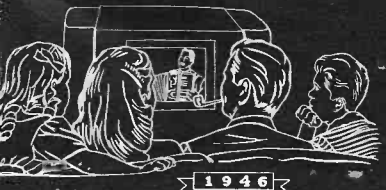
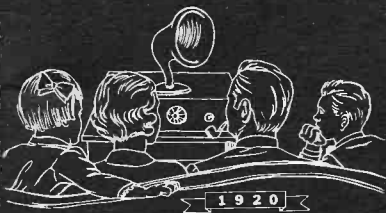
PAUL WILLIAMS
52 N. 5th ST.
READING, PA.

595

A Quarter of a Century of Broadcasting

in

America



The year 1946 marks the completion of the first 25 years of the American system of broadcasting. Radio was not, as you might say, "discovered" in 1920. Experiments had been going on for a number of years.

.. In 1920, however, radio ceased to be an experiment and became a permanent adjunct to life in America. How permanent and how much of an adjunct remained to be seen, but it was in 1920 that broadcasting as we know it today was born—with the realization that here was a great instrument of public service.

.. In 1922, two years later, radio advertising began, with the acceptance by station WEAJ, New York City, of commercial copy from the Queensboro Realty Company—and America may be everlastingly grateful that such a vital medium of mass communication gained early support from advertising, which insured its freedom and placed it alongside our free press as another guardian of the rights of people.

.. Today there are more than 900 broadcasting stations in the United States. There is scarcely a spot in the nation where one or more of them cannot be heard.

.. These broadcasting stations range in power from 250 to 50,000 watts. They operate on wave lengths ranging from 550 to 1600 on the dial. Obviously, some stations have to operate on the same wave lengths and either shield one another or operate on low power because 900 powerful stations could not be crowded into approximately 1,000 spaces on the dial. There would be wholesale confusion, with interference ruining every program on the air.

.. Radio engineering is responsible for the near flawless reception of radio programs today, with the radio dial crowded to capacity. Miracles have been performed which parallel the invention of radio itself.

.. Personnel in radio, although not great from the standpoint of numbers, has always presented a problem from the standpoint of training and natural talent. Approximately 25,000 people are employed in the broadcasting industry in America. Thousands more could be added by taking in those who are employed in the medium of radio, that it, producing shows for advertising agencies, making transcriptions for broadcast purposes, writing for radio, representing stations and otherwise earning a living from radio work.

.. Accessibility is one of the more obvious characteristics of radio. Once the initial investment has been made, the radio set is always there—in the home, family car, lunch room, hotel lobby and club car. It can be turned on with a flick of the wrist. It can be tuned from station to station with a twist.

.. The full significance of this ease of listening becomes evident when you realize that today more than 31,000,000 homes are radio-equipped—that radios are more widely used than almost any other commodity.

.. A generation or two ago, life was relatively simple—people understood what was going on in their communities, and some understood what was happening in the country as a whole. Beyond that, most people knew little and cared less.

.. But today, because of radio and other rapid means of communication, the world is crowding in. People are bombarded daily with information about what is occurring all over the world. Most people are interested in these events because they realize that, in the long run, they can affect life in their own communities.

.. Radio has come to mean more to them in recent years. They have a different conception of its mission in the world. They have heard it do terribly important things. It has taken them to inconceivable places, brought them voices and personalities who are changing the shape of the world.

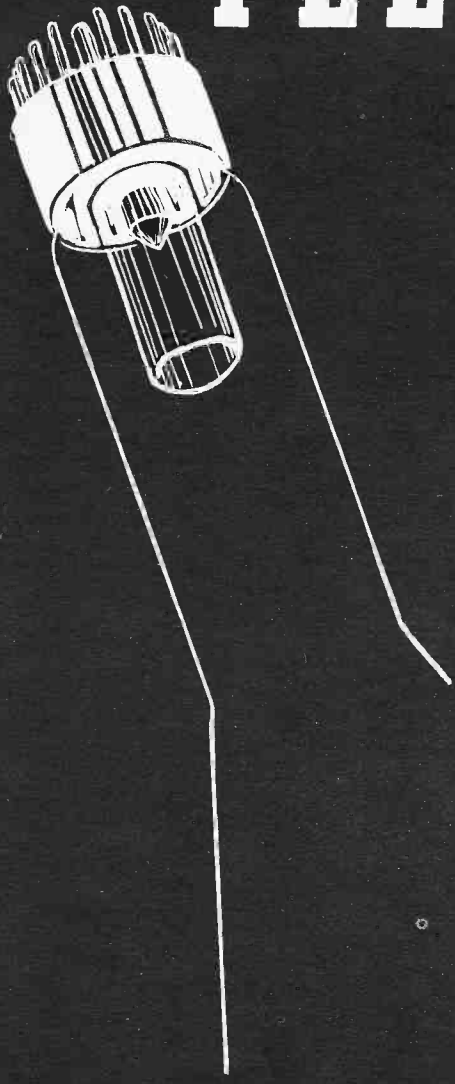
.. Assured of economic support by the free enterprise system of America and acclaimed by the public, radio will expand its service into many fields. New types of broadcasting—facsimile—television—all may flourish after the war.

.. The story of radio is the chronicle of American life and times during the past quarter century. Where radio has gone, what it has reported, the personalities and events it has brought to the people, are the popular history of a great American era. The re-enactment, and in many cases the actual rebroadcast of these stirring episodes will stand without equal as an appeal to the patriotism of all Americans.

*J. Harold Ryan, former
President National*

Association of Broadcasters

TELEVISION

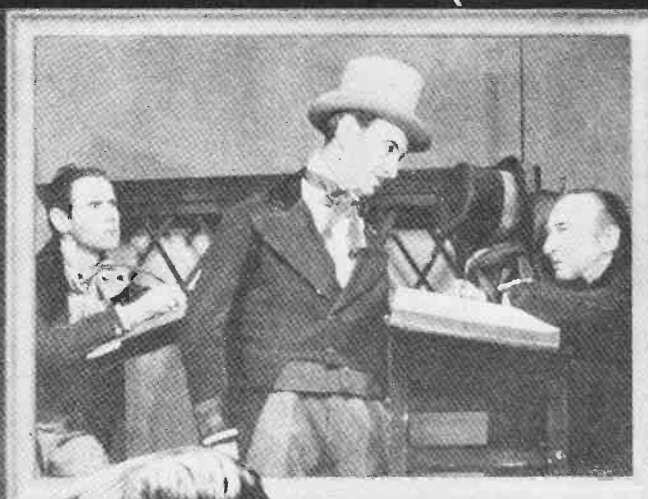


For more than 60 years scientists have been striving for means of seeing events remote from the observer. The scanning disc was invented by Paul Nipkow in 1884. The basis for all modern electronic television was described by Campbell Swinton in 1911, but it took years of work by Vladimir Zworykin before this system produced a picture. Dr. Zworykin invented the "Iconoscope" which became the 'eye' of television cameras.

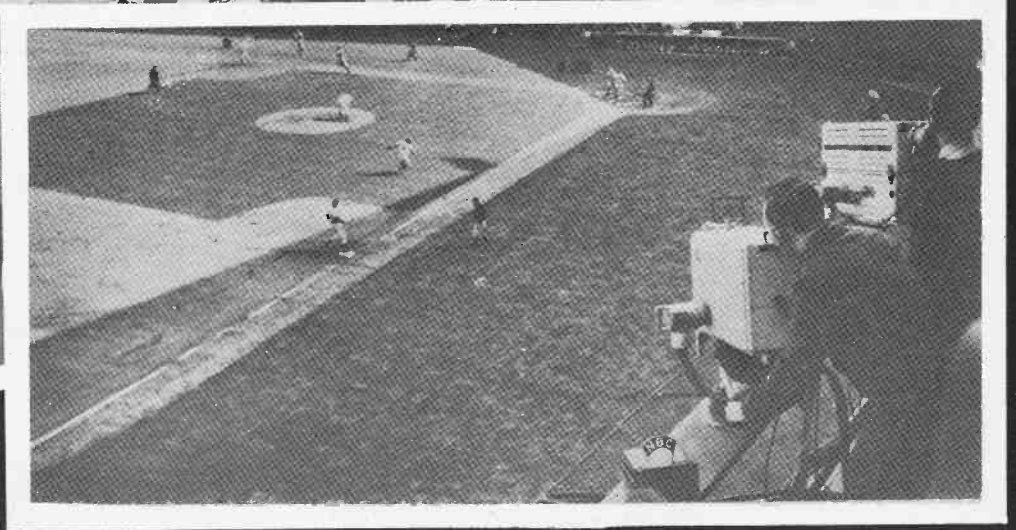
In the early 1920's, experiments by John Baird in England and C. Francis Jenkins in this country, brought successful transmission of low definition pictures. RCA erected a television transmitter in 1928 and on January 16, 1930 showed television pictures on a 6 foot screen, as transmitted from the studio.

The long awaited debut of television finally took place April 30, 1939 when President Franklin D. Roosevelt's speech opening the New York Worlds Fair was telecast.

Today there are 9 television stations in operation, and the FCC has applications for permission to construct 140 others. On the East Coast, approximately 10,000 television receiving sets are now in use.



IT GOES IN HERE

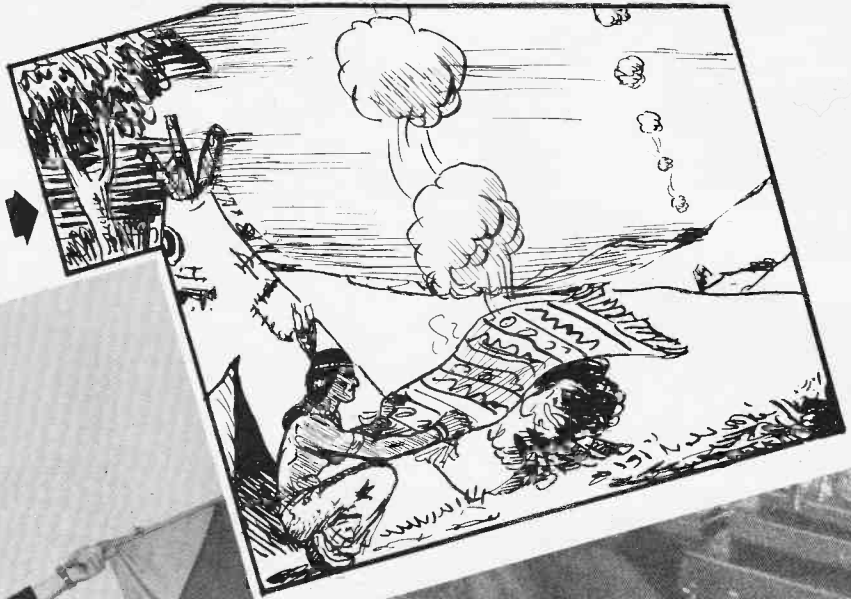


AND COMES OUT HERE



"Transition in Communication"

One of the earliest forms of communication.

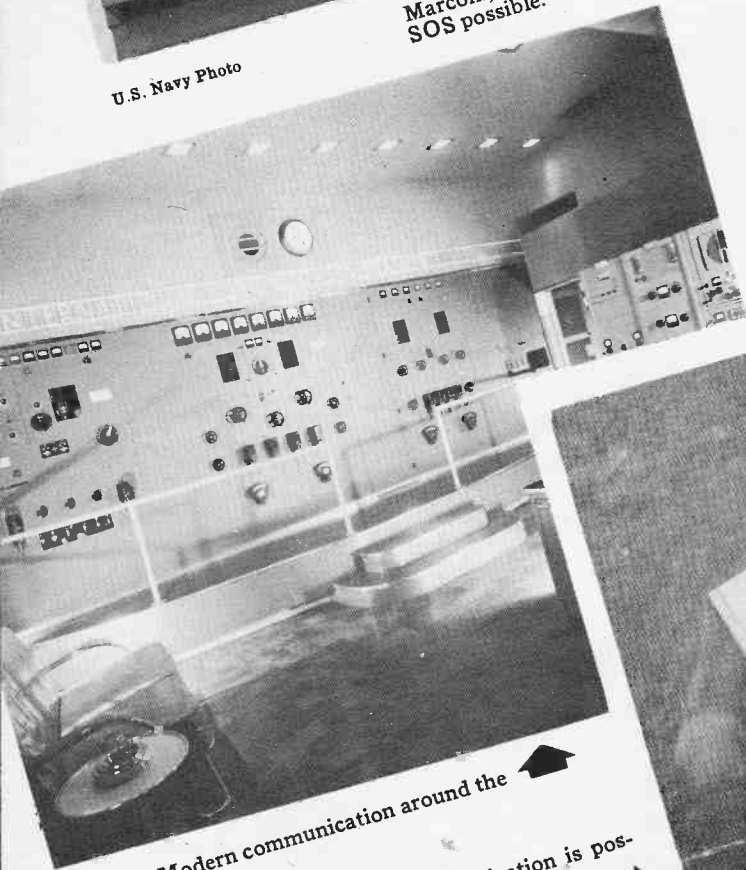


Sailors wig-wagging with semaphore signaling.



U.S. Navy Photo

Marconi, the man who made the SOS possible.



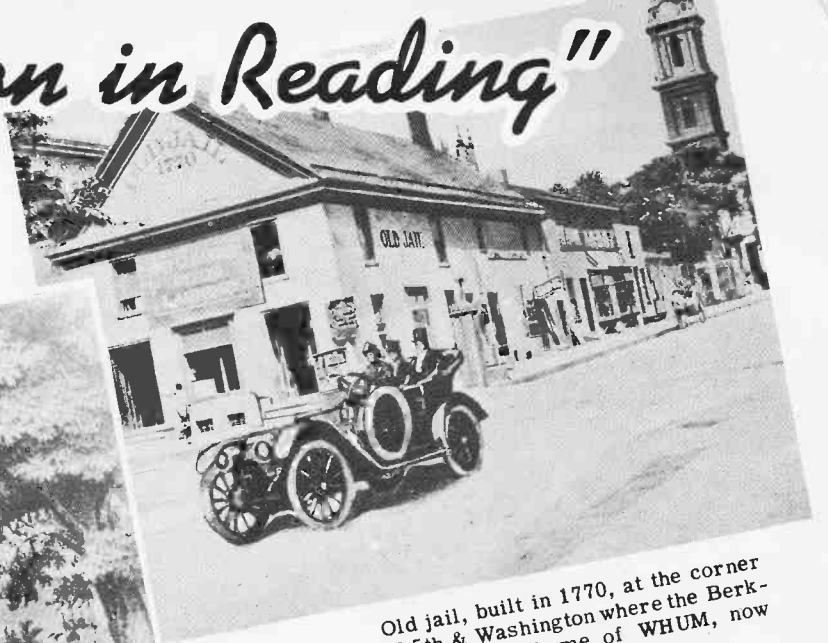
Modern communication around the globe.

Now sight communication is possible with Television.

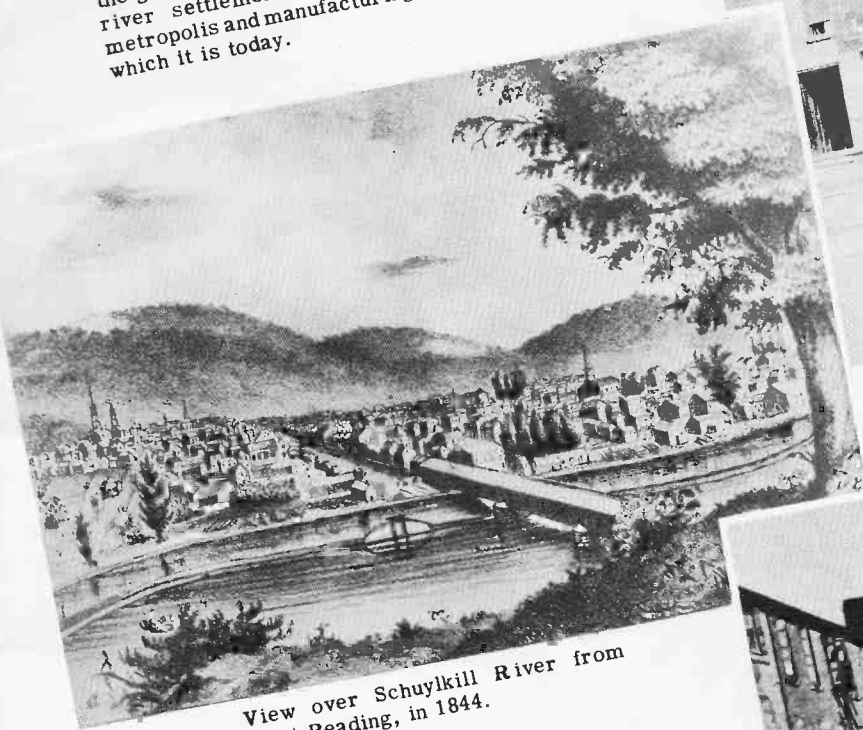


"Transition in Reading"

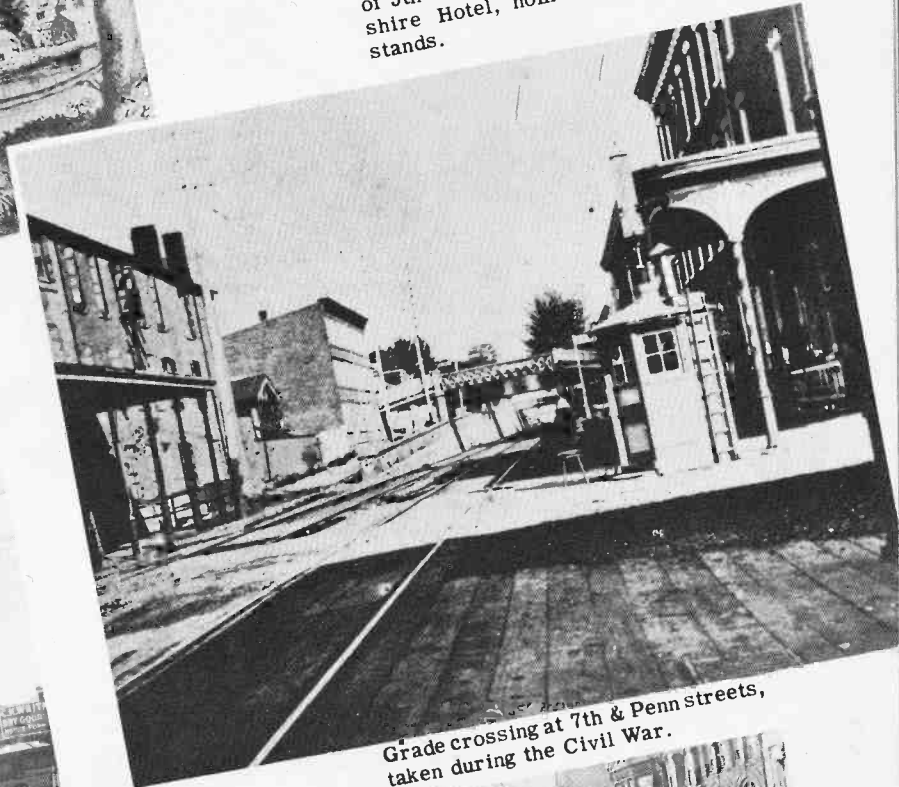
On this page is shown in pictures the growth of Reading from a small river settlement into the thriving metropolis and manufacturing center which it is today.



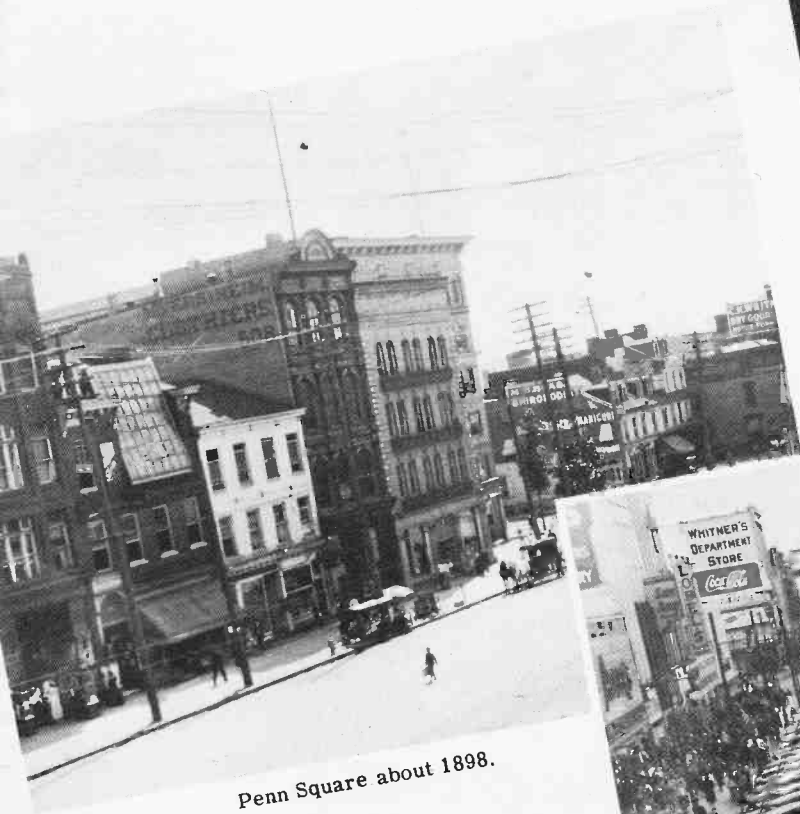
Old jail, built in 1770, at the corner of 5th & Washington where the Berkshire Hotel, home of WHUM, now stands.



View over Schuylkill River from West Reading, in 1844.



Grade crossing at 7th & Penn streets, taken during the Civil War.



Penn Square about 1898.



TODAY!

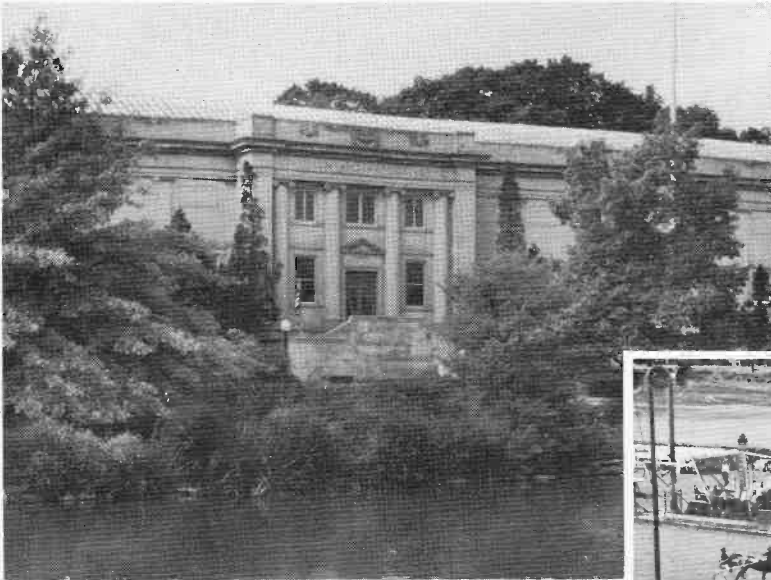
Albright Stadium.



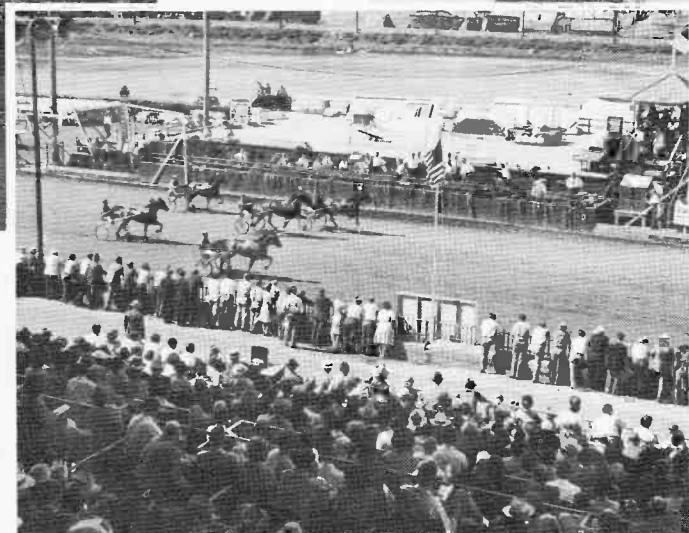
Approach to Skyline Drive at Pagoda atop Mt. Penn.

READING -- CITY OF

The Tower.

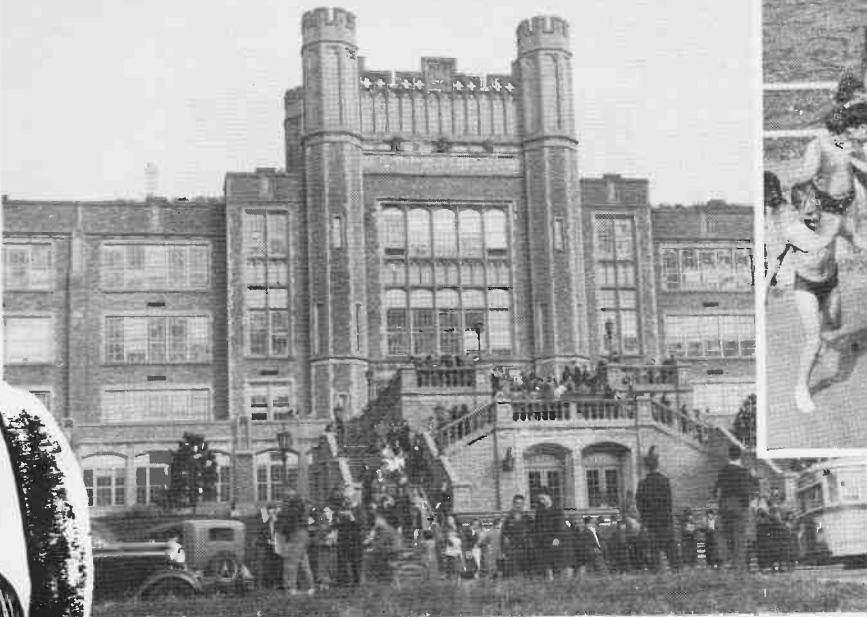


Reading Museum and Art Gallery.



Horse - racing at Reading Fair.

Municipal "South of Penn" Swimming Pool.



Reading High School, "Castle on the Hill."

BEAUTY - - HOME OF WHUM



The Pagoda.

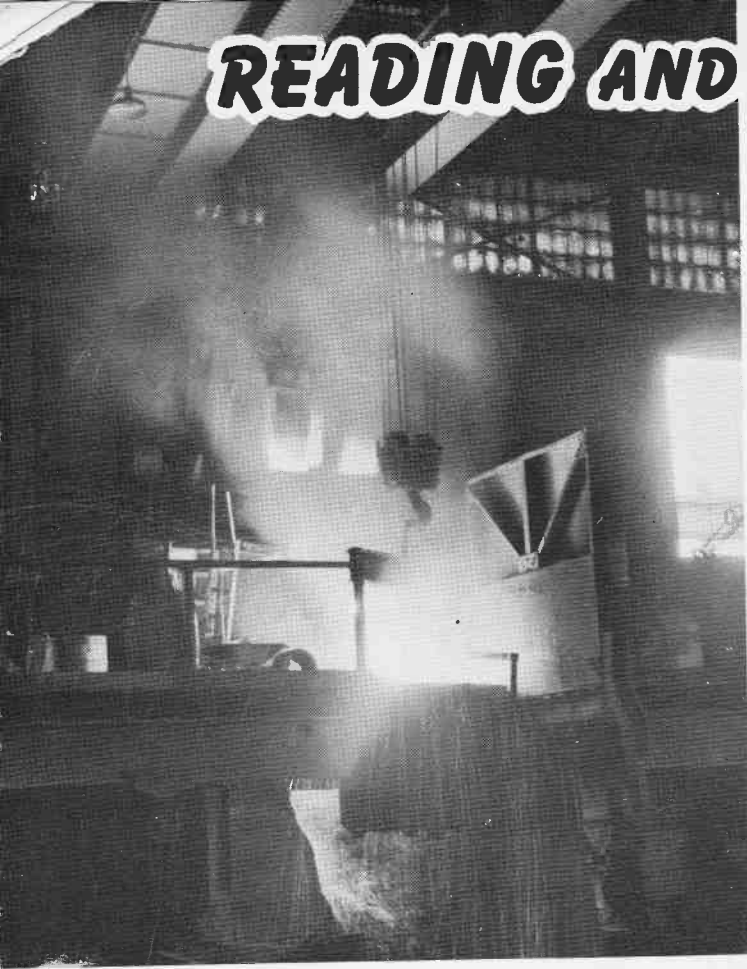


Typical of quaint old covered bridges dotting the countryside.



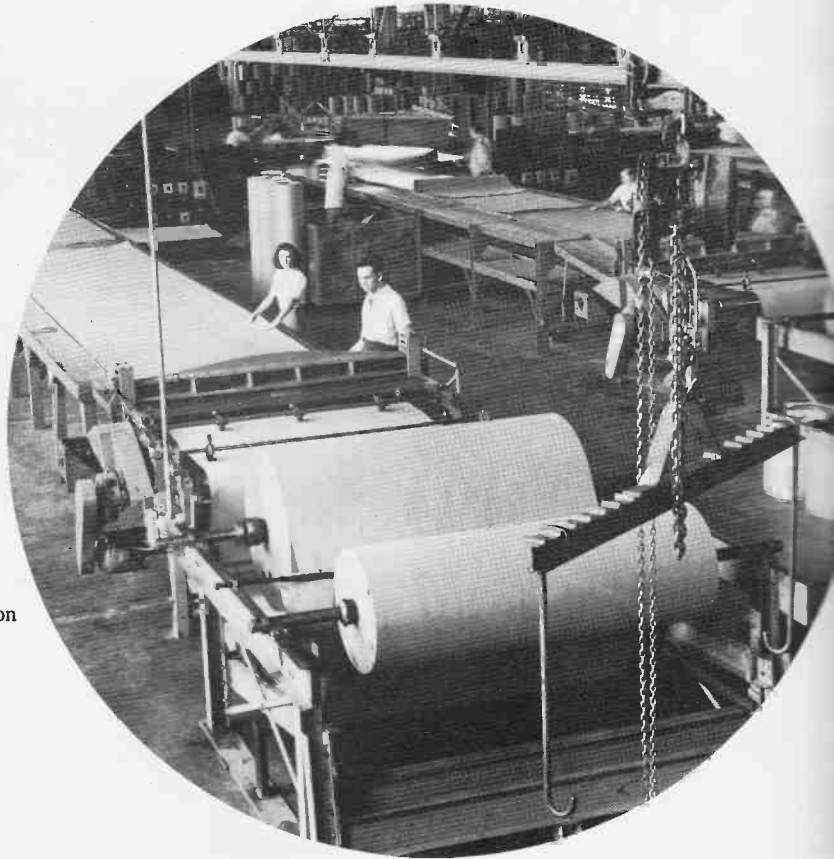
U. S. Post Office.

READING AND BERKS COUNTY . . HUMPHREYS

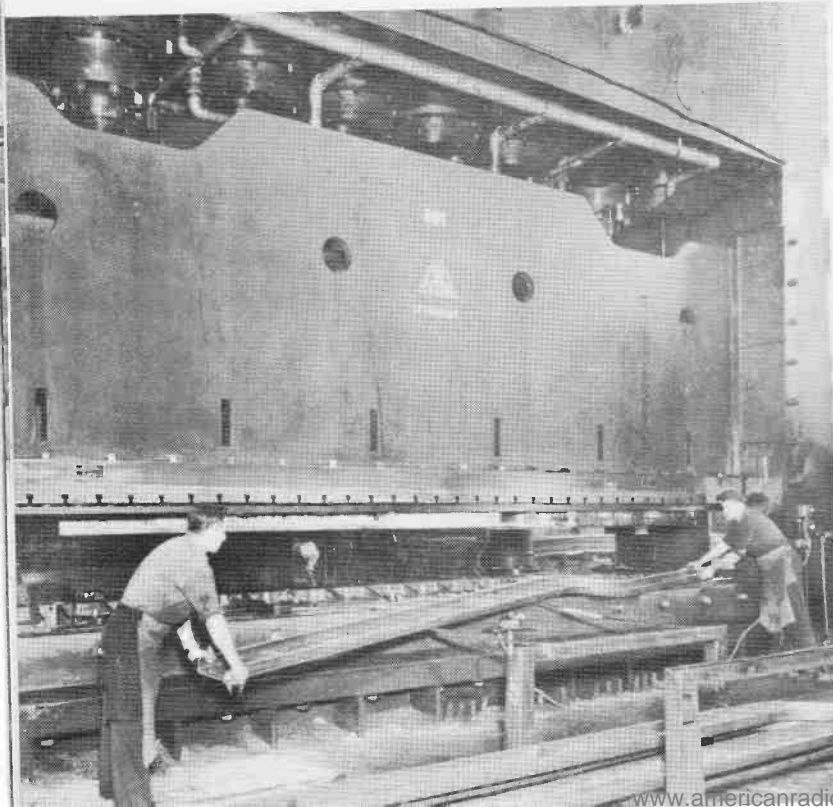


Interior of the Container Corporation plant.

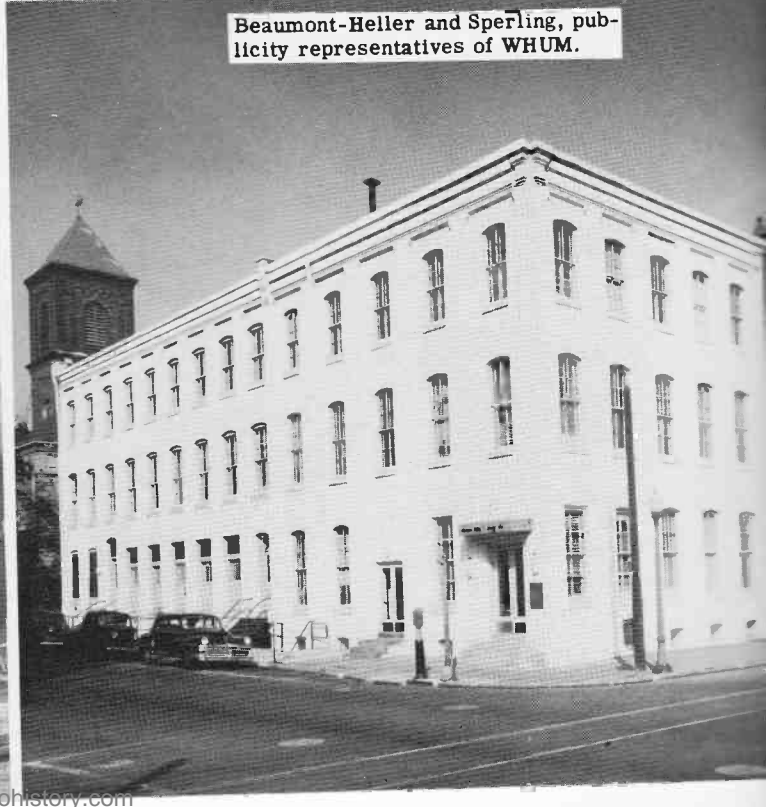
Carpenter Steel Plant, makers of stainless steel.



World's largest press (3,000 tons) at Parish-Press Steel Co.

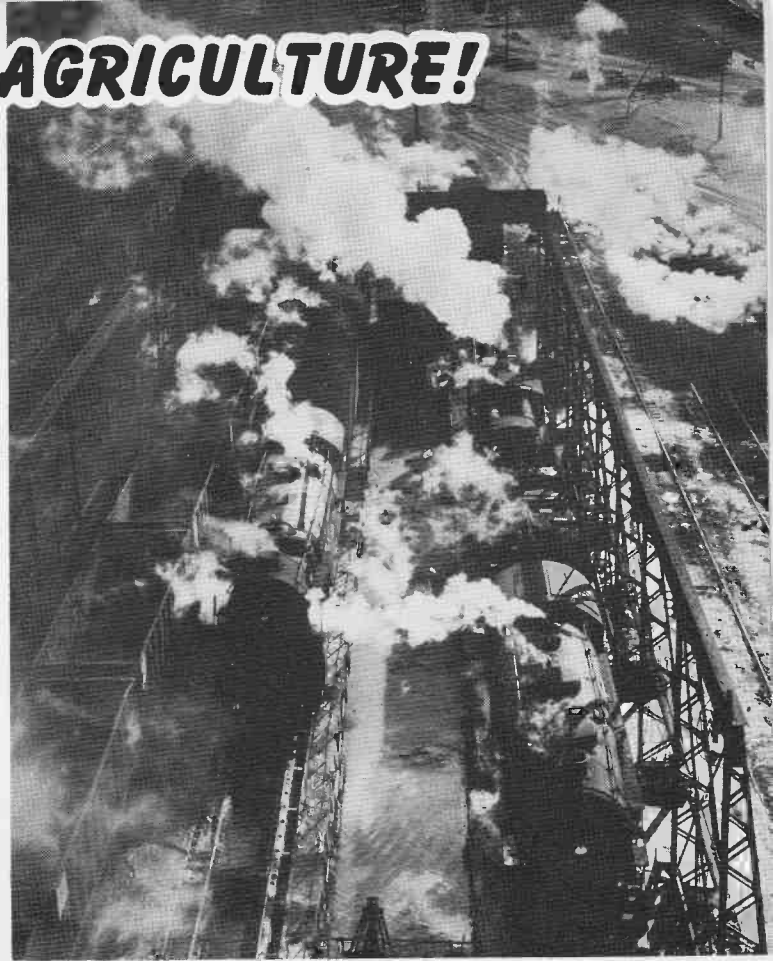


Beaumont-Heller and Sperling, publicity representatives of WHUM.



WITH INDUSTRY AND AGRICULTURE!

Reading Company railroad yards.



Harvesting wheat in Berks County.

Wyomissing Industries seen from the air.



WHUM



WHUM's studios are located in the Berkshire Hotel in the heart of Reading.

THE VOICE OF READING!



STUDIO "A"

Charming first sight for the WHUM visitor is VERA BRADY, receptionist. A native of Reading, VERA has studied piano for five years.

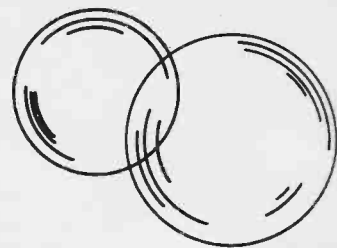


WHUM's gleaming reception lounge, smartly finished in glass brick, where visitors and clients are hospitably received.

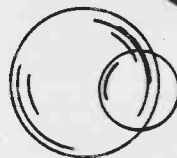
THEY'RE ON THE AIR...



The inimitable BING CROSBY is at last a member of WHUM's stellar lineup. Shown here timing one of his famous race-horses, "DER BINGLE's" show is heard each Wednesday at 10 p.m.



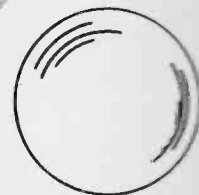
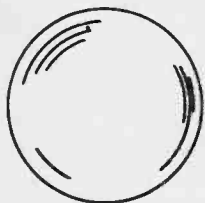
TOMMY DORSEY, maestro of the trombone, typical of the name bands whose recorded music is heard at 11:15 p.m., Monday through Sat. sponsored by the Gladwyn Grille on WHUM.



JANE WEBB and GIL STRATTON of "Those Websters," portraying the humorous highlights in the life of an American family, Sunday evenings at 6.



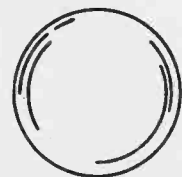
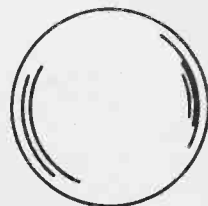
JACK CARTER and JANE MOORE, emcees of WHUM's popular teen-age program, "Be-Teen Jamboree," featuring the latest jive and school chit-chat, sponsored by Pomeroy's.



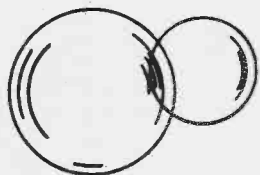
AT 1240 ON YOUR DIAL!



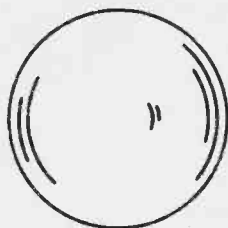
"WITTICH'S MUSIC THE-
ATER" sponsored by Read-
ing's most popular music
store, brings recorded
music to suit all tastes,
from Beethoven to back-
beat Boogie, Mondays
through Saturdays at 7:15 p.m.



HENRY MORGAN, latest
zany to hit the air-waves
and judged one of radio's
top comedians, demon-
strates his 'cigarette
tastetest'. He's a WHUM
regular on "Here's Mor-
gan" Wednesdays at 10:30
p.m.



Lovely MARION CLAIRE,
singing star of the "Chicago
Theater of the Air," a
WHUMutual classic at 10:00
p.m. Saturdays.



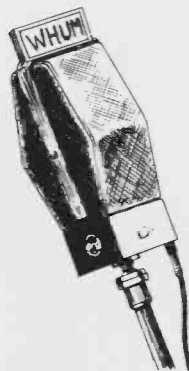
WHUM PROGRAMS IN



PRISCILLA PARKER, of "Priscilla Talks," a program for the homemaker sponsored by Pomeroy's, Reading's leading department store. Daily except Sundays at 8:45 a.m.



MRS. ANNA BARLOW explains the function of the Visiting Nurses Association in a program devoted to that organization by WHUM.



Much of WHUM's air-time is devoted to the armed forces, better to acquaint the listening public with their peace-time work. Typical is a recent broadcast by **LT. COMDR. FRANK C. BRANDENBURG**, administrative officer of the Reading 4th Naval District for Naval Reserve recruiting.



Introducing the Junior League series of programs on WHUM are **MRS. JAMES B. MERCER, JR.**, chairman, and **MISS JANE LINDGREN**, member of the radio committee of the League.



THE PUBLIC SERVICE

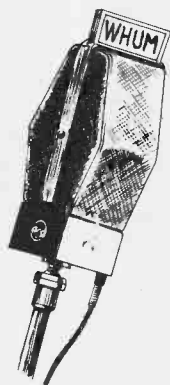


MISS VERNA M. CRISS, home economist of the Agricultural Extension Service, heard in WHUM's program for the housewife, under the direction of Penn State College.



CHARLES S. ADAMS, county farm agent, brings farm and market news to WHUM's farm listeners in a program operating under the direction of Penn State College.

MRS. HENRY R. CHRISTMAN, radio chairman of the Pennsylvania Federation of Women's Clubs, introduces a series of programs over WHUM devoted to the activities of the various organizations making up the Federation.



FREDERICK H. KLEIN, president of the Reading Manufacturer's Association, heard on a recent broadcast of the program dedicated to Reading's industries.

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ERAL MACARTHUR'S PERSONAL SENT TO THE COUNCIL--SAID THE
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AT THE UNIV



WHUM

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SSARY
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NE EXP

FRAZIER HUNT, top-notch Mutual news-commentator, heard Mondays through Fridays at 9:00 a.m. ANNOUNCED A NEW WAGE SC. OFFICIALS OF LOCAL 3 WILL BE RAISED FROM ONE SKILLED LABOR ENGAGE D

ENT LABORATORY SPACE AND TRAINED STAFF'S



DEPARTMENT WILL BE LIMIT
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ND 75 FOR THE SECOND.
STUDENTS. FRESHMAN
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SIVE NINE WORKERS UNJ
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Football games of Reading High School played at Albright Stadium are described play-by-play for WHUM listeners.
IRE OILING THEIR RIFLES AND
QUIRREL SEASON. IT OPENS NEY
CLOSES OCTOBER 15TH.



Q ANOTHER HOT DAY IS FORECAST FR MOST OF ILLINOISAM THE MERCURY IS
CLIMB TO NEAR 100 DEGREES IN THE S
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TO 98 IN THE
THE WEATHERMAN SAYS TEMPERATURES W
NOW THROUGHOUT ILLINOIS.
10
STERS DID DECIDE, HOWEVER, TO ASK F
NATIONS ASSEMBLY MEETING SCHEDULED
ERSKINE JOHNSON, genial intimate of the Hollywood scene, brings latest news from the film capital five days a week at 4 p.m.
SH WEST AFRICA, THE 69-YEAR-OLD NIA

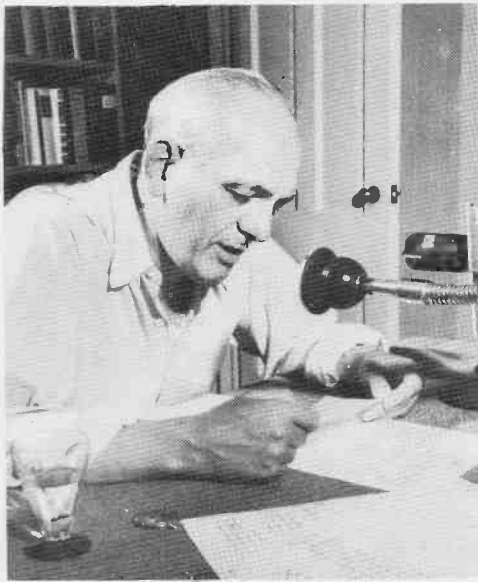


HAS BEEN SUFFICIENT TO R
WORKERS WILL BE NEEDED F
MOHAMMEDANS, AGA KHAN, IS REPORTED SERIOUSLY ILL. A SUBSTANTIAL AMOUNT
OF HIS DIAMOND JUBILEE HAS BEEN POSTPONED INDEFINITELY.

SPORTS COVERAGE

3-THOUSAND---IS EXPECTED TO VOTE. THE MINERS RETURNED
 AFTER THEIR FIRST VACATION
MUTUAL
 THIS AFTERNOON INSTEAD OF S
 ICTED EARLIER. THE REASON, HE
 FORMS WILL HELP KEEP THE MERCUR
 TO SOUTHERN
 wsroom in New York,
 ings of the world are
 flashing, via teletype
 dios and quick broad-
 ation.

GABRIEL HEATTER, famous among news commentators for many years, is heard at 9 p.m. Monday through Friday.



CECIL BROWN examines daily events in his morning program Monday through Friday at 11.



OF INJURIES RECEIVED WHEN HIS
 SEVERAL OTHER PERSONS W

THE CAUSE OF THE B-17
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"THE GILLETTE
 FIGHTS" a Friday
 night feature, bring
 the most important
 events in the world of
 fisticuffs to the micro-
 phone. This sponsor
 also brings you the
 major heavyweight
 fights when they occur.



NEWS IN BRIEF

(ION) (HXR55)

SET UP NINE CLOTHING FACTORIES I

THE SOVIET GOVERNMENT. THE EXPERIMENT

CAT THEIR MONEY BACK UNDER A SOVIET GOVERNMENT

MUNCILS IN AUGUST 1907---WHEN HE WENT TO CHICAGO

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FULTON LEWIS, JR., im-
 passionate analyst of the
 news, whose program (Mon-
 day through Friday at
 7 p. m.) is sponsored by
 Kaufmann's in Reading.

THE DEMOCRATIC
 T DISTRICT.

HAN FIVE-THOUSAND

HE NOTLY CONTI

E ASKED.

EN CHOSEN FOR

UNOFF

DREW PEARSON, heard at
 7 p.m. Sundays, is familiar
 with the inside stories of
 events in the nation's cap-
 itol.



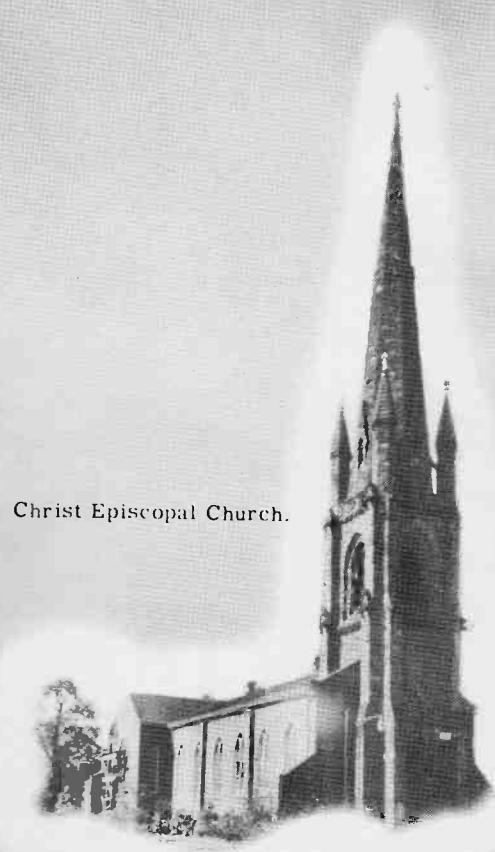
(ROUTE F)

IN IT PLOUGHED OUT OF THE MAZE INTO THE

MESSAGES OF FAITH... IN

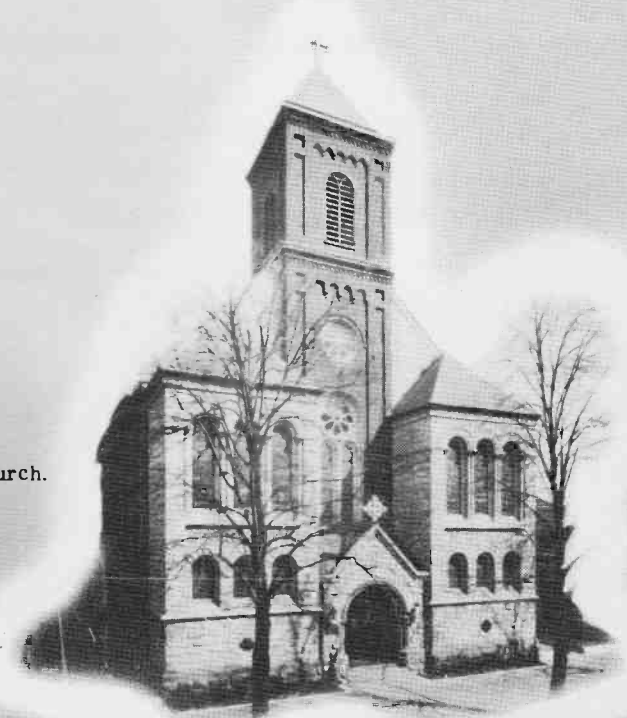


Trinity Lutheran Church and old graveyard.



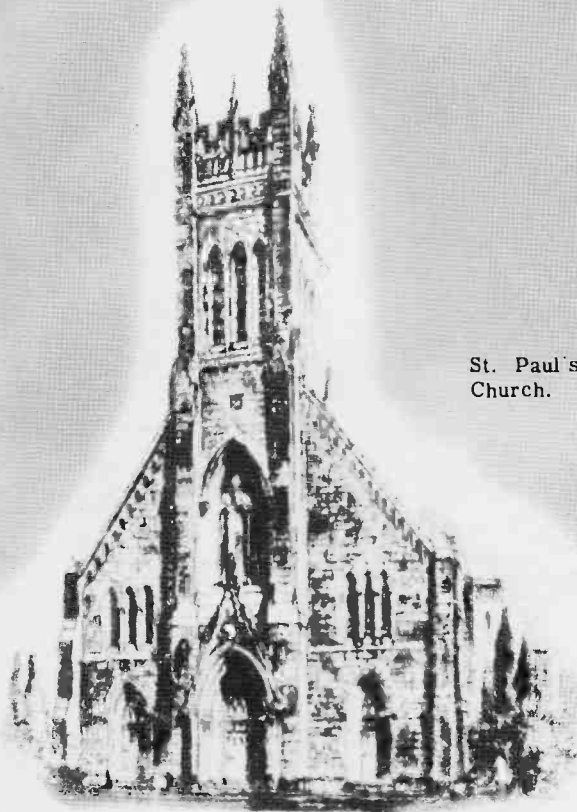
Christ Episcopal Church.

WHUM is proud of the air-time which it devotes to the churches to bring the messages of their faiths to the listeners; it is also proud of the inspiring programs brought to your radio over the wires of Mutual. All



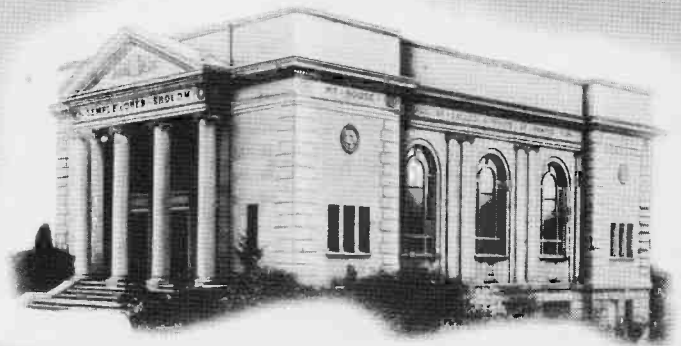
St. John's (German) Lutheran Church.

TO YOUR HOME VIA RADIO!



St. Paul's Memorial Reformed Church.

faiths, regardless of creed or denomination, are represented. Radio, the modern miracle, completes its fulfillment in carrying to listening worshippers the words of their belief.



Temple Oheb Shalom.



St. Peter's Catholic Church and Rectory.

MYSTERY--ADVENTURE--EXCITEMENT



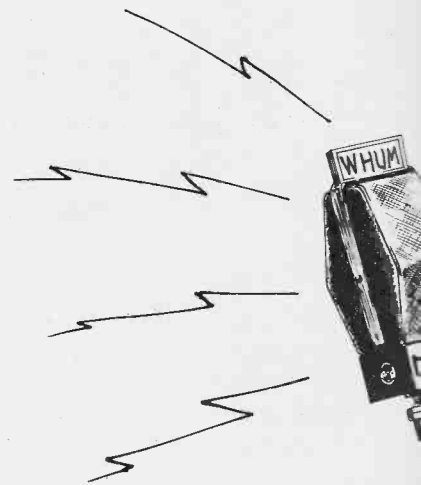
MARJORY FENTON relaxes between rehearsals of "True Detective Mysteries," . . . Sundays over WHUMutual at 4:30 p.m.



JAMES MEIGHAN who portrays "The Falcon" of the Tuesday night (8:30) WHUMutual program.



HOP HARRIGAN, the hero of the younger generation, whose thrilling adventures are carried on WHUM Monday through Friday at 5:00 p.m.



PAULA STONE, beautiful and clever mistress-of-ceremonies on Mutual's "Leave It to the Girls," wherein the weaker sex gets a chance to prove its strength. Saturdays at 9:30 p.m. on WHUM.

NICK CARTER, sensational sleuth of the Mutual series, a WHUM feature at 6:30 Sunday evenings.



-FOR THE ENTIRE FAMILY!



BARRY THOMPSON, portrayor of "Captain Silver in "Adventures of the Sea Hound," Monday through Friday at 4:30 p.m.



Youthful listeners (and some older, too) are transported to the 25th Century when **BUCK ROGERS** goes on Mutual network at 4:45 p.m. five days a week.



Is the Shadow thwarting a crime or aiding a criminal? What mystery lurks behind the balustrade? **LES-LIE WOOD** and **BRETT MORRISON** are the stars of Mutual's "The Shadow," heard at 5:00 p.m. Sundays.

JOHNNY COONS, portrayor of "Captain Midnight" enacts a dramatic moment in the life of that famous character, heard on WHUM at 5:30 p.m. Monday through Friday.



CURLEY BRADLEY, star of the mike and the saddle, who portrays "Tom Mix" in the popular afternoon serial, on WHUM at 5:45 Monday through Friday.

THERE'S ENTERTAINMENT



The lovely star of **QUICK AS A FLASH**, novel mystery-quiz which is a Mutual presentation at 5:30 p.m. Sundays.

Emcee **TODD RUSSELL** keeps things clicking merrily on Mutual's veteran quiz show, "Double or Nothing," Sunday nights at 9:30.



FRED VANDEVENTER, his musician wife, **FLORENCE RINARD** and their 14-year-old son, **BOBBY MCGUIRE** are the quick-witted trio on "Twenty Questions," new quiz show at 8:00 Saturday night.

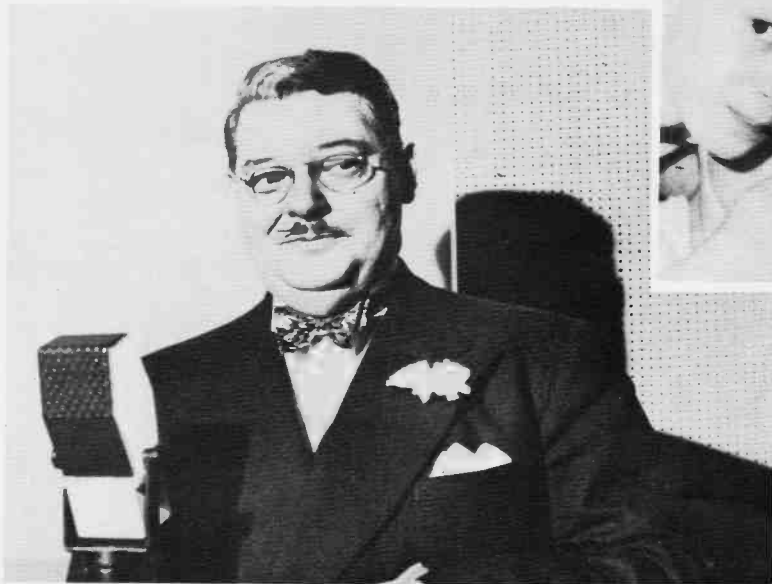


JACK BAILEY explains the choice of queens to a royal visitor on "Queen for a Day," Monday through Fridays on **WHUM** at 2:30 p.m.

LORE ON WHUMUTUAL!

Here are those "Juvenile Jury" mop-pets with JACK BARRY, emcee, taking time out for sodas between their rambunctious panel discussions on kids' problems. Sundays at 1:30 p.m.

Ever-popular among radio's quiz shows is the ole pefferer himself, "Professor Quiz," heard at 8:00 p.m. Thursdays on WHUMutual!



TYRONE POWER, romantic Hollywood leading man, is typical of the stars heard on "Hollywood Open House," at 9:30 Thursday nights. Sponsored by the Reading Clothing Factory Store.



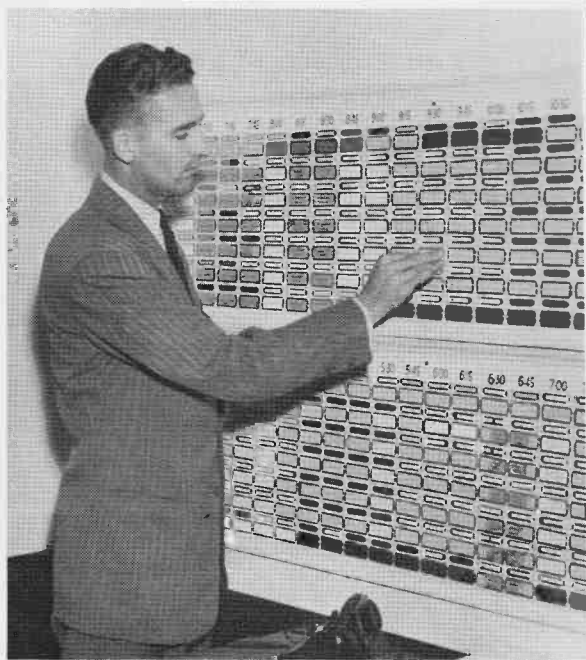
DR. JOHN J. ANTHONY, adviser and consultant on domestic problems and bringer of comfort to millions, heard on WHUMutual at 1:45 p.m.



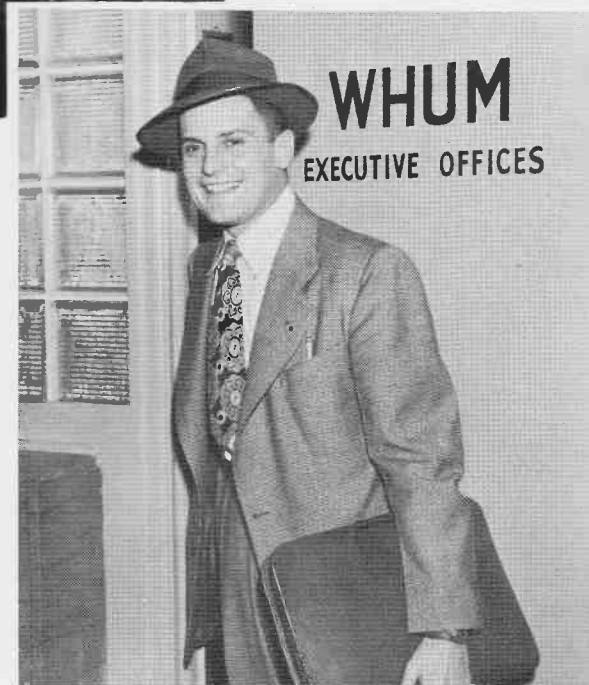
THE FOLKS WHO



ROBERT G. MAGEE, vice-president and general manager of WHUM, has been in radio for sixteen years, and includes in his experience practically every job that a station offers. He had his own orchestra for eight years, hobbies in golf and landscaping. His late father, **SHERWOOD MAGEE**, was the famous National League baseball star who led the League in hitting in 1911. **MR. MAGEE** was granted leave of absence in April 1944 to serve with OWI in London as Program Operational Supervisor of the American Broadcasting Station in Europe.
(ABSIE)



RICHARD G. FICHTORN, account executive, is a native of Reading and has had wide commercial experience most recently with the Reading Eagle-Times. Prefers sports as hobbies, particularly handball, riding and bowling.



HERBERT R. SEARLE, account executive, comes to WHUM from Chicago, Illinois, via four years as radar and radio technician in the Marine Corps. He is married and has a two-year-old son.

MAKE IT WHUM!

ALAN LANE, staff announcer became interested in radio through a dramatics hobby. He was assistant divisional manager for Reynolds Tobacco Co. before joining the Army.



ROBERT S. REIDER, program director of WHUM, is a native of Reading and son of W. A. HERBERT, well-known civic and business figure. He has been in radio for 16 years, and during the war years worked in the Coast Guard Public Relations office in Chicago. His hobbies are music, dogs and reading . . . and keeping in practice as an amateur drummer.

AL STEPHENS, staff announcer, whose newsroom work with WJZ in New York was interrupted by two years Army service, comes to WHUM from WENR, Chicago, where he was relief night program manager. He is a radio graduate of Northwestern University.



ELDEN SPANGLER, staff announcer, is a graduate of Reading's Albright College. He lists dramatics as his hobby . . . he is married and has a young son.



EVA LOUISE SANDEFFER, WHUM's charming continuity editor, is a former high-school teacher of English and dramatics, hails from Little Rock, Ark. A graduate of the Aliene School of the Theatre in New York, she appears occasionally on the air in Homemakers' Chats and is active in community dramatics, both directing and acting.



NORMAN LEEDS, shown here with ear-phones operating the turn-table for a program of recorded music, comes from Philadelphia, was an Army Air Forces pilot during the war.



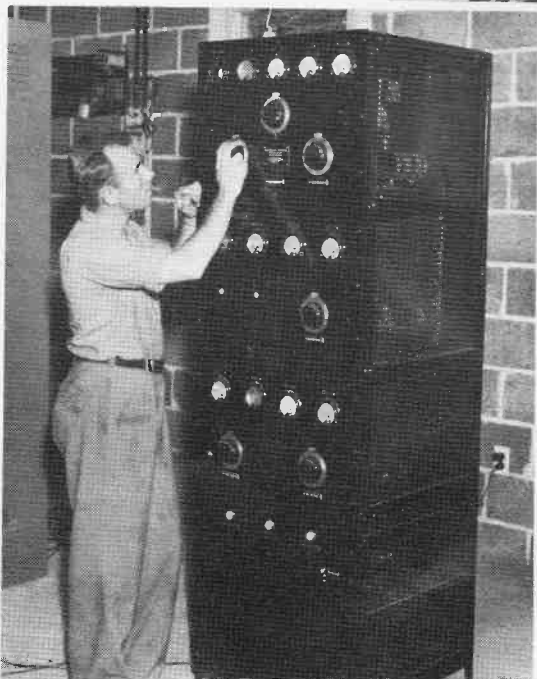


J. E. McCORMACK, chief engineer, was one of the fortunate few to have witnessed Operations Crossroads in the recent atom-bomb tests at Bikini where he served as radio engineer on Admiral Blandy's flagship. MR. McCORMACK has a wide background in musical comedy and orchestra-leading, started as a 'ham' radio operator in 1918. He has designed and built six complete radio stations. Comes from Alabama.



STEWART H. RESCH, staff engineer, has worked with radio since 1926, plays the violin in his spare time.

JOHN LOUGHREY, transmitter operator, operates the recording machine as a network program is transcribed. A native of New Jersey, John was in the Navy for three years, hobbies in golf, chess and bridge.



MASON E. PROUDFOOT, JR., staff engineer, has a wide variety of spare-time avocations ranging from motorcycle racing through amateur radio to mountain-climbing.

GEORGE D. RIBBLE, office manager, has had a dotted career in many unrelated fields, lives in Pennside with his wife and their wirehair, Patsy. Won famous Eagle Cup three times and retired it in 1927 for his mile-plus swim of Schuylkill River. Was in theatrical business as dancer and emcee for many years; Mrs. Ribble, also former thespian, designs sweaters and mittens for knitting.



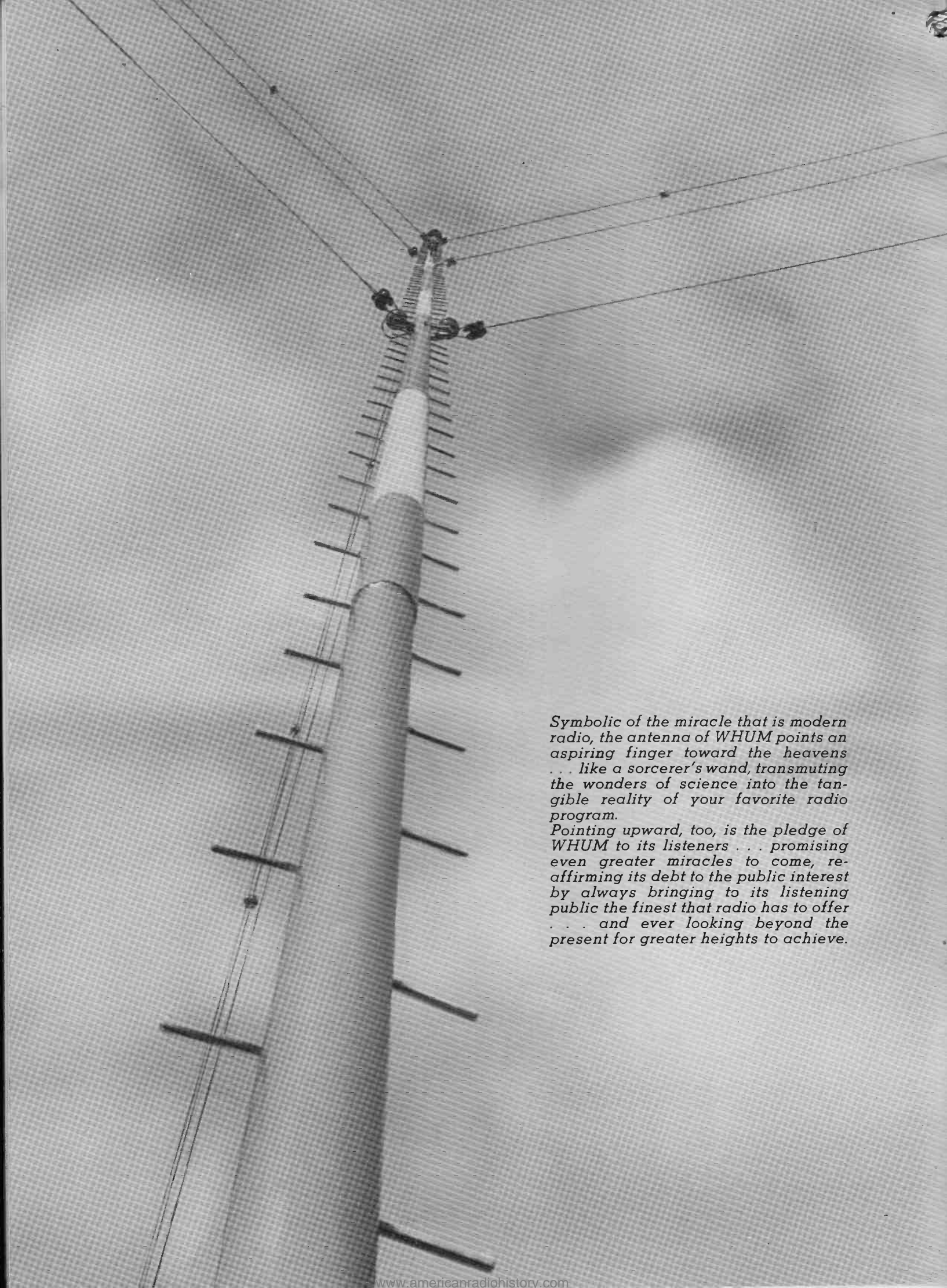
A. RAYMOND MOORE, WHUM's music director, is a graduate of Lafayette College and has taught music in a career that includes 2½ years with an Army band at Camp Patrick Henry, playing piano with local orchestra and playing organ for church. His hobby is shop-work.



MRS. SHIRLEY BERGENDAHL, secretary to Mr. Magee, became acquainted with radio work while secretary to the radio director of Beaumont Heller and Sperling, WHUM's promotion representatives. A native New Englander, SHIRLEY likes to dance and knit while not on the job at WHUM.



GRACE M. DAVIES, another of WHUM's attractive feminine staff, is program secretary, manages to keep the complicated workings of that department running smoothly.



Symbolic of the miracle that is modern radio, the antenna of WHUM points an aspiring finger toward the heavens . . . like a sorcerer's wand, transmuting the wonders of science into the tangible reality of your favorite radio program.

Pointing upward, too, is the pledge of WHUM to its listeners . . . promising even greater miracles to come, reaffirming its debt to the public interest by always bringing to its listening public the finest that radio has to offer . . . and ever looking beyond the present for greater heights to achieve.

THE *Future* IS BRIGHT FOR THE POSTWAR EAST

With the same abundant energy and realistic viewpoint that characterized their magnificent war effort, the citizens of the East have set their sights to post-war targets. Public works — roads, bridges, waterworks, airports and building programs costing billions of dollars will be under way within a year. Private enterprise and government have already allocated the money.

Unified effort already set in motion will make permanent the bulk of The East's wartime economic, industrial and population gains. Re-conversion plans by private enterprise call for production and employment topping all previous peace-time records.

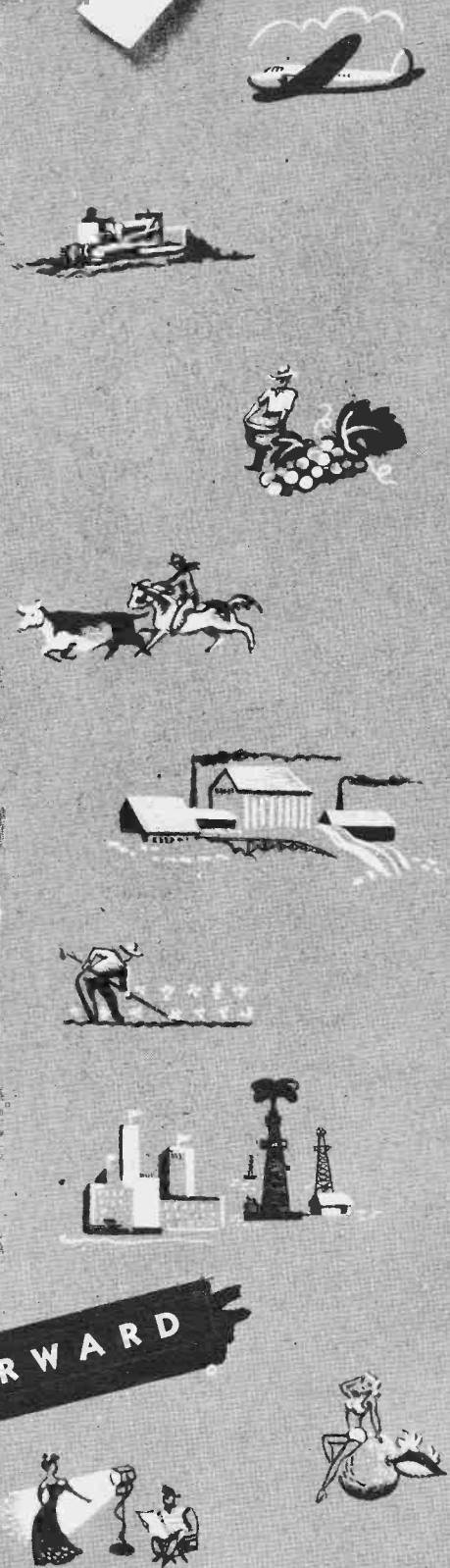
Eastern goods will flow through war-expanded transportation systems to wider markets at home and abroad. A war-born merchant fleet will carry foods and factory products to the ports of the world for exchange with raw materials for the new industrial empire.

The East faced a multitude of problems in gearing itself to the production achievements of war-time. It rolled up its collective sleeves and did a tremendous job.

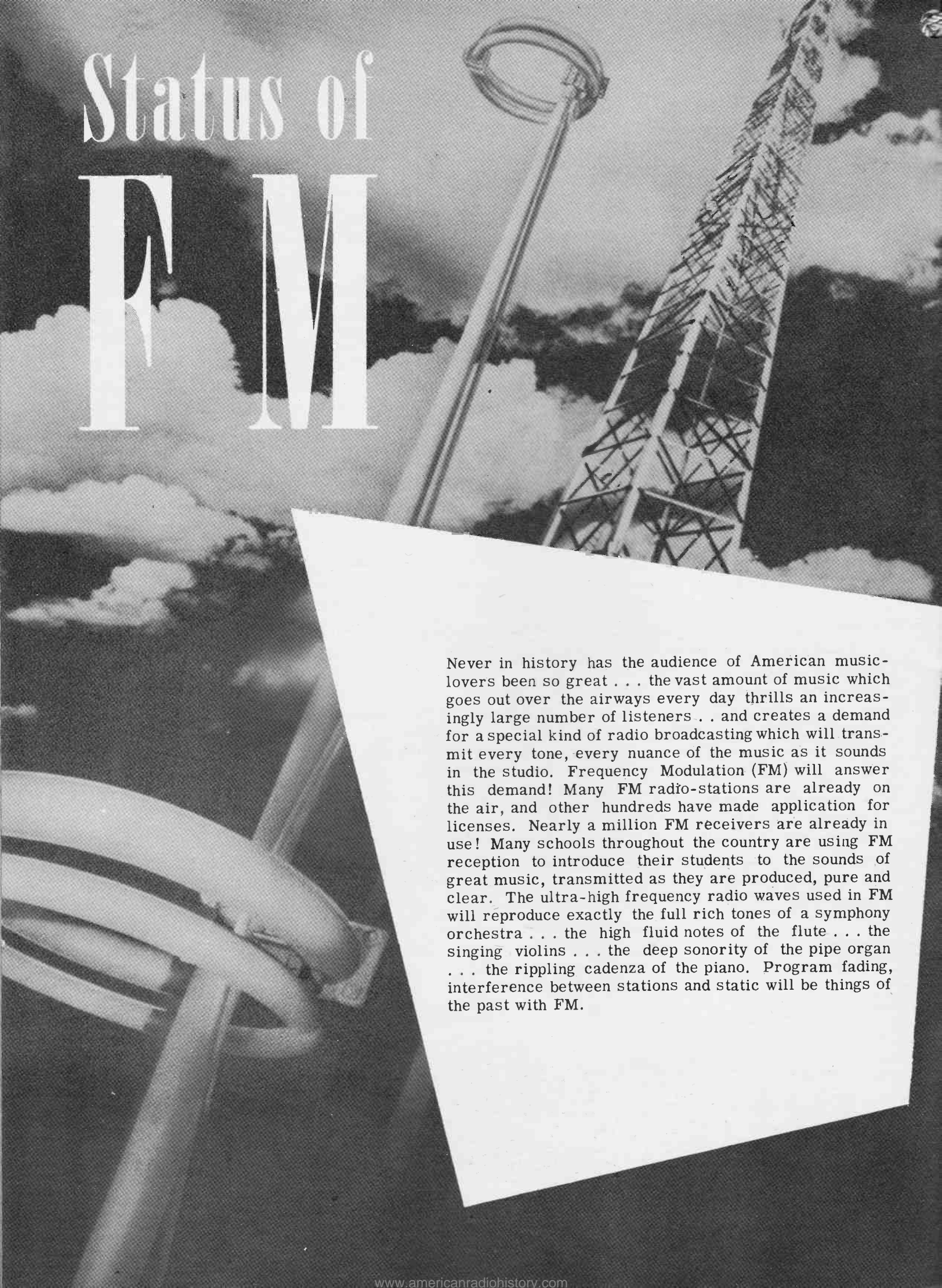
The problems of peace-time are plentiful and big, but opportunities are even bigger. Wise forward planning has put these opportunities within reach; many of them are already at hand.



THE EAST IS GOING FORWARD



Status of FM



Never in history has the audience of American music-lovers been so great . . . the vast amount of music which goes out over the airways every day thrills an increasingly large number of listeners . . . and creates a demand for a special kind of radio broadcasting which will transmit every tone, every nuance of the music as it sounds in the studio. Frequency Modulation (FM) will answer this demand! Many FM radio-stations are already on the air, and other hundreds have made application for licenses. Nearly a million FM receivers are already in use! Many schools throughout the country are using FM reception to introduce their students to the sounds of great music, transmitted as they are produced, pure and clear. The ultra-high frequency radio waves used in FM will reproduce exactly the full rich tones of a symphony orchestra . . . the high fluid notes of the flute . . . the singing violins . . . the deep sonority of the pipe organ . . . the rippling cadenza of the piano. Program fading, interference between stations and static will be things of the past with FM.

R A D A R

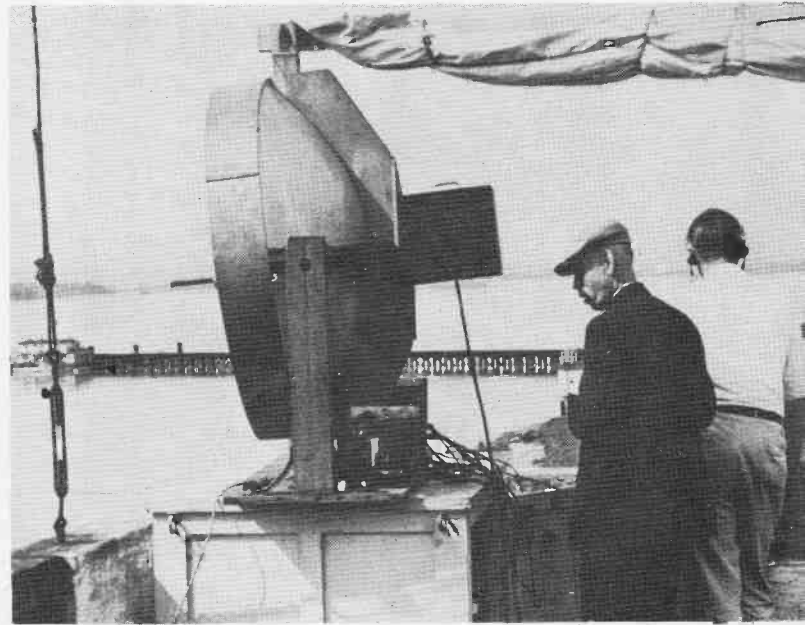
THE SILENT WEAPON OF WORLD
WAR II . . . TO BE ADAPTED
FOR PEACETIME USE . . .

An electronic 'eye' apparently developed independently by U. S., British, French and German scientists in the 1930's, radar owes much of its rapid growth to the advent of war. First used in detection of surface objects in the near-distance under conditions of poor visibility, radar's range and versatility were quickly extended to provide long-range detection of airborne as well as surface objects, accuracy in fire-control, safety in navigation and identification of distant or unrecognizable planes and ships. To radar goes much of the credit for England's doughty defense in the dark days of the 'blitz'; and much of the credit for 'lighting the road' to Berlin and Tokyo.

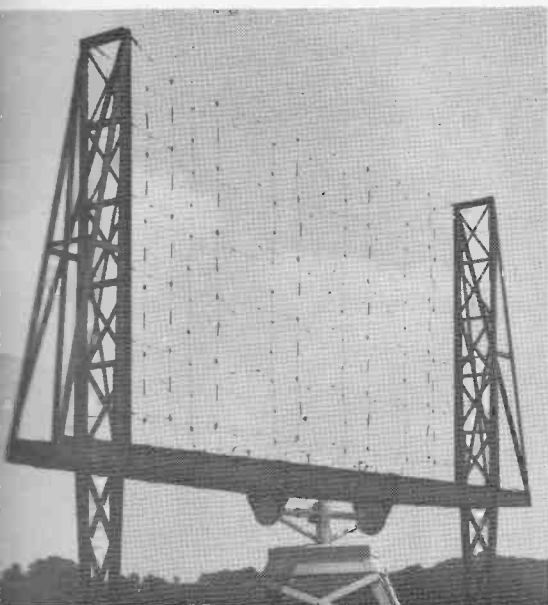
.. Scientists have made great strides in converting the principles of radar to peacetime uses—with the extent limited only by the field of imagination.



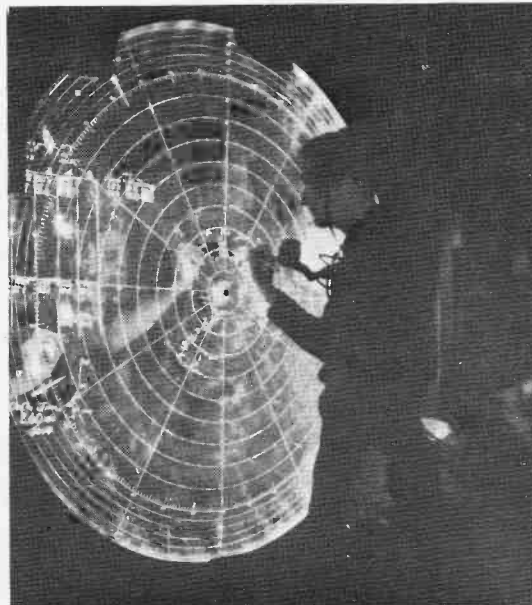
Five-man Army radar crew in Italy track approach of enemy planes.



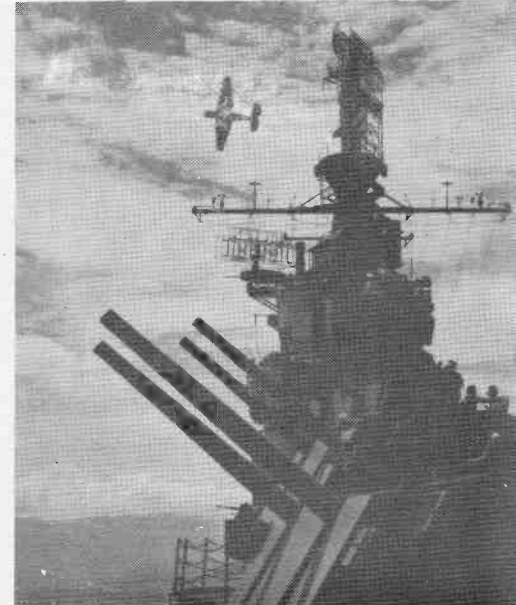
Prelude to the first test of radar, experimental work on the roof of the Naval Research Laboratory in Anacostia, D. C.



The antenna of the first complete radar, installed 'topside' a building at Naval Research Laboratory in Anacostia, D. C. It is mounted so that it can be turned to allow for around-the-compass search.



Information provided by radar's electronic eye is marked down on vertical chart in radar plot room aboard aircraft carrier. Behind the transparent chart, other men chart other aspects of incoming information.



Symbolizing close tie-line of communications between aircraft carrier and plane supplied by radar, photo shows Navy Avenger speeding past Essex-class flattop with latter's radar antenna outlined against the sky.

The

VETERANS'

RIGHTS AND BENEFITS ★ ★ ★

MUSTERING-OUT PAY . . \$100 for less than 60 days service; \$200 for 60 days or more but no foreign service; \$300 for 60 days or more plus foreign service. Payable to all with base pay less than \$200 monthly at time of discharge; payments to be made in three installments.

TERMINAL PAY . . . new legislation provides for payment to all veterans for accrued leave or furlough pay, based on 2½ days per month, at the pay pertaining to the rank held at time of discharge or separation.

OLD JOBS . . Permanent jobs abandoned to enter service after May 1, 1940, may be recovered by application within 90 days after discharge. In case of difficulty, contact local Reemployment Committeeman.

NEW JOBS . . Register with nearest U. S. Employment Service office as soon as possible after discharge. GI Bill provides vocational training and government allotments of from \$65 to \$90 monthly while learning. Veterans are on the preferred list for Civil Service jobs, and are entitled to 5 to 10 points in examinations simply by reason of military service.

EDUCATION . . GI Bill entitles veteran to one year of schooling, plus one year for each year of service, totaling no more than four years of schooling which may be obtained. Veterans' Administration pays \$500 per year toward tuition, supplies, etc.; also provides subsistence \$65 monthly for veterans without dependents, \$90 monthly for veterans with dependents. No subsistence allowance for those taking correspondence courses.

READJUSTMENT PAY . . Federal unemployment-compensation program grants veterans four weeks unemployment pay for every month of active service after Sept. 16, 1940 up to 52 weeks. If veteran is completely unemployed, he receives \$20 a week. Contact local USES on state unemployment compensation benefits.

LOANS . . Veterans' Administration will guarantee 50% of loans, guaranteeing up to \$4,000 for a home or farm, and for a business up to \$2,000. Real estate loans must be repaid in 25 years, farm realty loans in 40 years, and non-real estate loans in 10 years.


PRIVATE ENTERPRISE . . World War II Veterans are entitled to preference in buying surplus property to establish or maintain their own small business, professional, or agricultural enterprise; to obtain tools or equipment which they are required to own by the character of their employment; and to acquire with reasonable limits one initial stock of property for resale in the regular course of his business.

MEDICAL CARE . . Through Veterans Administration, hospitalization provided for veteran for any ailment as long as he lives, without cost. Medical service or dental care not requiring hospitalization provided by VA, if the condition was caused or aggravated in line of duty.

INSURANCE . . Veteran may keep his national service life insurance in force for 8 years and then convert to ordinary life, twenty-payment or 30-payment life.

LEGAL EXEMPTIONS . . For six months after discharge, veterans have legal exemption under Soldiers and Sailors Civil Relief Act of 1940, from lawsuits for collection of debts, collection of taxes, sale of property for taxes, dispossession of dependents for nonpayment of rent, and collection of insurance premium.

DISABILITY PENSIONS . . free vocational rehabilitation provided for disabled veterans, plus \$105 monthly, with no dependents; \$115 with one dependent, plus \$10 monthly for first child and \$7 for each additional child, \$15 for each dependent parent. If discharged with disability due to service, veteran may be entitled to disability benefits, including a pension. Amount payable from \$11.50 a month to \$115 a month for 100% disability.



If there is no Veterans' Administration Office in your home town write to the nearest Field Station. Address, "Manager, Veterans' Administration"—

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This brochure compiled and edited by
Paul M. Harris and Thomas B. Tull,
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"THE VOICE

OF READING"