RADIO LORE FOR NOVICE AND EXPERIENCED FAN

Morrell Learns Radio Detective Must Have Big Expense Account

Uses Broadcast Station in Attempt to Locate Clarkville Bank Robber.—Resulting Telephone Bills Reach Large Sum

sooner hammered the sign on his door: "Radio Detective," than a newsboy rushed down the street shouting, "Extry! Extry, paper! All about the big bank robbery! Extry, paper!"

The news glared at him from black headlines. Bandits had stolen \$150,000 in Liberty bonds from the Clarkville National Bank. The president, Jeremiah Colquitt, who lived across the way from Angus Morell, was offering a reward of \$15,000 for return of the bonds, coupled with arrest and conviction of the robbers, sional. The \$15,000 reward seemed very with arrest and conviction of the robbers.

In his excitement Angus brought the an exclamation, he rushed up to his study, smeared iodine and placed a bandage about the finger. Then he brushed his hair, adjusted his tie and polished his shoes. He looked at himself in the mirror, other detectives could boast of being self-made millionaires at that age?

He ving this money in hand he would sions which it would be good to adopt, and out, head bent forward, left hand over his lower ribs, right hand clenched in

Five minutes later he knocked at the

Lack was with Angus Morell. He no vaults. I opened by desk, and they were had disappeared, with no clue of any "Don't worry, Mr. Colquitt. I'll find

them for you within 48 hours."
The banker offered no reply. rese, saluted stiffly, and departed.

Back in his study he telephoned the radio broadcasting station NCFA, and asked to be allowed to speak for five minutes on the crime. Reluctantly, the di-

near. Supposing it took a week, or even a whole month, to solve the mystery. Suphammer down squarely on his finger. With posing, too, he must allow \$5000 for exan exclamation, he rushed up to his study, penses. That would leave him \$10,000 net.

In the course of a year his income, at the course of a year his income, at the study of the course of a year his income, at the study of the course of a year his income, at the study of the course of a year his income, at the study of the stu

Having this money in hand he would etire. Oh, they might clamor for him sions which it would be good to adopt, and retire. Oh, they might chamor for him decided to favor the one with chin thrust to work on extraordinary cases of international importance. Yes, but he would refuse a fee. He might even establish a school for radio detectives, or endow such

department in Yalo or Harvard.
Would he marry? Angelica Colquit

1 10 10 10

he began to speak with breathless hesitancy. He said:

of the President of the bank, Mr. Jere-

dent of Clarkville was responsible for the

crime. Mr. Colquitt has no enemies among

the business men. As for the niff-raff in-

have the courage necessary for such a robbery.

five feet eight inches tall.

"Now, he is a fairly dressed man of

city ways. Otherwise, how could be expect to dispose of \$150,000 in Liberty

bonds through some city bank or broker-

disturbing anything but the bonds.

Milladelphia, St. Louis or Detroit. "To the radio fans in those cities I wish

fered by Mr. Colquitt.

been speaking to you."

esponsibility."
"And then what?"

"This man is an artist in his profession.

perfection of his smoothness, indeed, leads

to speak this word. He on the lookout

have just given. If you find him wire

me or telephone me, reversing the charges.

I will make it worth your while finan-cially, for there is a reward of \$15,000 of-

• • •

Angus walked home and had not been

a his study five minutes before the tele-

phone rang. St. Louis was on the wire.

Capt. Jonkins of the police department had heard Morell broadcast. The usur he

had watched that very morning undoubt-

only was the bond robber. Angus trembled with excitement,
"What shall I do?" inquired Capt. Jen-

The telephone conversation was expen-

sive to Morell, but he was allowing \$5000

for costs of solving the robbery, and it

Indeed, he felt a decided satisfaction

"How shall I detain the man?" insisted

"Arrest him if necessary. I'll take the

"Sourch his quarters. Sond the bonds

at the prospect of seeing a St. Louis call listed on his telephone bill.

a man answering the description I

cial notice in the vicinity.

"Therefore, if the bandit was not a



"He Began to Speak With Breathless Hesitancy"

door of the Colquitt mansion. Mrs. Scott, the housekeeper, responded.

"Is that you, Angus?" she asked "I'm

sorry, but Mr. Colquitt has given orders to admit no one. He is very much upset fust now."

"I must see him at once," Morell announced in forceful tones quite new to of the bank robbery. Bandits have taken to the fust of the bank robbery. Bandits have taken to the fust of the bank robbery. Bandits have taken to the fust of the bank robbery.

"Go upstairs and tell Mr. Colquitt it's already solved the crime in part.
"I know, in the first place, that "Oh, that's different," said the housekeeper.

She disappeared and returned quickly, opening the door for Morell. The newly developed detective found his way to the library. Mr. Colquitt, an old friend who took a paternal interest in Angus since the death of his parents, was under tremendous strain. His head was bowed and he seemed grayer about the temples.

He offered no greeting to Angus, and gree of accuracy as to his physical make-Morell sank into a chair opposite him. Suddenly Angelica Colquitt, the banker's daughter home from school for the spring vacation, entered the room.

"Father"-she began, but the words died on her lips at sight of Morell. He rose to his feet. Angelica glared at

him, plainly resentful of his intrusion. "Angelica," said Angus, "you must forgive me for disturbing your father. But my purpose here is strictly business. I, as a radio detective, am determined to He locked and unlocked the desk without find the Liberty bonds."

He thrust out his chin, lowered his hea and clenched his right hand.

"What do you know about such things?" Angelica asked, scornfully, "Angus, you do pick the most dreadful time for your jokes."
"Jokes?" cried Angus in a voice smoth-

ered with rage, "You call thin a joke? Your poor father has grown gray over-night. I mean to help him. You can't afford to laugh at me any more."

Mr. Colquitt spoke at last.
"He means well, my dear. Let him

alone. He can't do any worse than the Clarkville police force." "Here's the point, Mr. Colquitt," Angus took him up, eagerly, "It doesn't cost you anything to let me work on the case. Why not give me the chance?"

"I will Angus, Go to work on it right the bonds, the reward is yours." "Thank you, thank you, Mr. Colquitt. You won't mind if I ask a few questions?"

Mr. Colquitt motioned to him to proceed. "Do you suspect any one in particular?"

"Any trace of burglars?"

"Who saw the bonds last?"

"I did."

'Lest night. While I was at work, the cashier locked the vaults. Angelica called did not bother him. for me, and while we chatted the cashler "Dad, don't bring me into the mystery,"

said Angelica, "I didn't take the bonds,"
"No, she had been out catching butterthe St. Louis police captain. files and things for her biology class. Well-I left the bonds in the top drawer of my desk, since the vaults were locked. Besides, no one could have known the bonds were in my desk. There seemed to me no to me at once. If necessary, telephone danger. This morning I went down early me again. to get the bonds back safely into the

Short · Circuits



noney," said Capt. Jenkins. "Suppose ou wire me \$250." i"
"I'll send it at once."

"Don't address the wire to police headquarters. Send it to me in care of the Western Union." quarters.

paid no attention to him whatever. Miss Colquitt kissed her father, could be seen The conversation ended. Morell telephoned the bank, directing that \$250 be wired Capt. Jenkins in St. Louis. The money was to come out of his checking admonishing him not to worry, and was whisked away in the car. She carried notebooks and briefcase with her. Angus took out a packet of blue cards

and jotted notes on the progress made so far on the case.
"Bandit found, St. Louis; check-up now Angus walked over to station NCFA, prepared to broadcast his talk. Despite his determination to be cool and collected, inder way," he wrote.

The telephone rang again.

It was Detroit calling him. Angus au thorized the reversing of charges.

A Miss Adeline Halliday desired to A Miss Adenne Hainday desired to experience a day, on the lines of his correspond to Mr. Angus Morell. Yes, this was Mr. Morell. Well, a man had just enough.

"You don't sound very cordial," Wood inquired. "Don't bother notebook?" Wood inquired. "Don't bother winds and the property of the large guidely and the property of the large guidely and the large guidely guidel mish Colquitt.

"By a process of elimination I have hair and was smooth shaven. He was acting in a suspicious manner. What should she do? Angus was sorry, but reported that his bandit had use been discounted. "I have that his bandit had just been discovered in St. Louis.

dear me," said Miss Halliday, festing the town, none of them would from Detroit Angus wished he could terminate the conversation. "I'm sorry, Miss, Halliday," he said

resident of Clarkville, he was a stranger to Clarkville. Furthermore, I believe he was alone in the theft, since no other 'Good-byc.' "Just a moment, please, dear Mr. Mocontinued Detroit's end of the line 'And have you the bonds and every

papers were touched and no marks of entry or departure are visible.
"Now, one stranger, responsible for this hold-up, may be described with some de-"Not yet, but we expect their recov-

ery any moment."
"But Mr. Morell. I am sure this man He is, on the main, of average aphas Liberty bonds. I am quite sure, Per-haps the St. Louis bandit is not the right pearance, one who would not create spe-"Yet he would be tall enough to look in through the window from the street and so observe Mr. Colquitt place the one at all. I could swear this is the man and he has the bonds."

"Plainly the bandit could not be in St. Louis and in Detroit at the same time. bonds in his desk. He is, therefore, about Angus took Miss Halliday's telephone umber and address, promising to call her back if no news reached him from St Louis. He put in a call for that city, ob-"This is Angus Morell, radio detective

> "I am working on that \$150,000 Liberty robbery from the Clarkville Na-Bank." "Well?" asked St. Louis again.

me to insist that he has a sense of humor. Probably he has sandy hair, is freckled, "I was talking to your Capt. Jenkins about it this morning, and there is somenas a smooth-shaven face and lives expensively, but not estentatiously.
"Most likely to comes from New York, but he might also live in Chicago, Boston, thing I want to tell him again."

"What's the name?"
"Capt. Jenkins."

"What's the first name?" "Sorry, sir. We have no Capt. Jenkins iere. Richard or any other name. "But I just talked with him a while

"Must have been an imposter, sir. have no Capt. Jenkins here. "Good-by, ladles and gentlemen of the radio audience. This is Angus Morell, pressed. He asked Western Union to radio detective, of Clarkville, who has St. Louis the sum of \$250. The Clarkville operator sent out a warning at once. Word came back, however, that the cap tain had been waiting for the wire, and

after getting the money, had promptly

left the telegraph office. If he were seen

again he would be asked to return the money, the operator added, in too rel-

onn a tono to mem hopeful.

cashler, speaking.

0 0 0 Angus was in the depths of despair. For a man to have taken advantage of him in this cruel fashion was a very, very low thing. It was lucky he had not offered to send that Detroit woman any noney. And the mounting cost of the telephone bills! The telephone Angus propared to be sarcastic with some She had her notebook and butterily col-Philadelphia or Boston sleuth. It was lection. When I got there next day, the only the bank, however, Mr. Coogan, the

"I sent that money for you this morn-g, Mr. Morell," he said. "Your account ing, Mr. Morell," he said. "Your account is overdrawn. Don't you think it would be wise to transfer \$1000 from your say ings deposit to your checking account?"
"Of course," said Angus. "By all "You'd better let me have some expense means. I'll send you a slip at once."

Even if the cost should come to \$1000 more than he had expected, Angus would be satisfied. There was still a handsome reward. The telephone rang. Boston on

"This is Clinton Wood, head of the Wood Detective Agency,' the voice Clinton "Yes," Mr. Wood," Angus replied cau

He would volunteer no information. Let the other man speak first and reveal his

to me, Mr. Morell," Wood told him. "It has its interesting paints," Angus vouchsafed in noncommittal fashion. "I like the looks of it," Wood continued.

Jie had a frank and hearty manner

which aroused Angus's suspicions. One experience a day, on the lines of his en-

like to work on this case and send a man down again in a moment. She handed down. Better still, if Colquitt means business, and there is a \$15,000 reward. "Miss Colquitt," he said, "will you be

want to come down and get it."
"That's your affair," said Angus. "And inything Mr. Colquitt says, he means. ns word before."

"You don't think by any chance he's

in on it?" inquired Wood.
"Imposeible in 10,000 years," shouted
Angus. "Furthermore, Mr. Wood, this telephone conversation gets more expendve every minute.' my worry," said Wood. "I ray

for my calls,' "Sorry," replied Angus. "You must excuse me. Ive had half a dozen telephone calls, long distance, this morning

and all of them were charges reversed tohught yours was too." "Possibly you haven't heard of the Wood Detective Agency," Mr. Wood suggested. "I don't mind telling you we're the best in the United States. Would you

ike me to come down and work this case with you, on a 50-50 basis?"
"No, thanks," Angus replied curtly.

"I didn't want to encroach on your territory," said Mr. Wood. That's very nice of you.' "I'd like to build up an understanding

with you."
"I don't work with anybody," Angur told him. "There are some people working for me, however. I have no objection to your working this case. It would hardly pay you to trouble, as the mystery

ls almost solved now." "Well," said Wood, "If you're quite sure you don't mind I'll come down and work on it. All on my own account, of course."
"That's strictly your business," Angus remarked, frigidly,

The conversation ended. Angus laughed it the idea of un outsider solving the mysterious disappearance of the bonds from a bank he had never seen, cut of the possession of a man-he did not know.

0 0 0 Events shaped themselves quickly

While Angus sat glued to his deak an telephone Wood visited Clarkville. chatted freely and ambably with Mr. Col-quitt. He soon put the banker at his case. "What papers, it any, did you find in your desk drawer after the bends were missing?" Wood asked Colquitt. "None of any consequence," said the

'Were there any of any kind?'

"Why, yes," Mr. Colquitt told him. "You see, my daughter had been chatting with me the night I left the bonds there bonds were gone and Aneglica's notebook was gone, but a sheaf of her papers, about size of the parcel of bonds, Uiore.

Wood meditated a moment. "Let me see her papers, if you don't mind," he suggested. "I have malled them to Angelica: She "Have they already gone to the post-office?" Wood inquired. Colquitt summoned his housekeeper. Mrs. Scott said the papers were about to be mulled.

"If you don't mind," said Mr. Wood, business is taking me to the vicinity of your daughter's school. I'll bring her the Mr. Colquitt handed him the packet and

Wood took the first train for the school. Angelica, in the dormitory hall, came down to the parlor to see the gentleman calling with a message from her father. They engaged in casual conversation. Wood asked whether she had examined

her biology notebook since returning to school.
"No," said Angelica, "I've been to a dance, a tea, and half a dozen other so-cial affairs. I have my first class to-

opening it. Bring it down quickly and I'll show you some rare specimens of

Angelica ran up to her room and was

good enough to ask at the office if there is a telegram for me from your father."

She complied with his request. During her absence, Wood opened the notebook. He was not surprised to find the parcel of liberty bonds. He stuffed the bonds in is pocket and put back into the notebook Angellea's biology notes which he had brought down with him. Angellen returned, advising that there

was no telegram. 'Now I'll show you the notebook," she

She opened it, and found her notes there in good order. She had never realized that the \$160,000 bends had been there for soveral days, owing to her carelessness at

Wood,

"I surely thought I had it with me," he replied, "but I find I'm mistaken. Excuse me, please, Miss Colquitt, but I must upholstery and radio store at 854 Broad hurry back to Clarkville and see your street. Most of the foreign broadcast statement.

As quickly as he could make it, he was again at the Colquitt mansion. The years rolled off Mr. Colquitt's back as he heard the story,

"The poor child," exclaimed the banker. 'It would have frightened her to douth if is due primarily to the large coil which she had ever known the bonds

"I'm glad it's all settled," Wood re-"We will pay you the \$15,000 reward,"

said Mr. Colquitt.
"Nonsense," the detective replied.
didn't catch any bandits." 'Well, you did half of it-you recovered the bonds. That's \$7500 for you."
"If you insist," said Wood casually, and

departed with a cordial farewell. He walked across to Angus Morell's study. Angus was still at the phone. these telephone bills are running into

arge money."
"Sorry to tell you, old man, but the onds have been found."
"Found? Who found them?"

And he narrated his story.
"There's a check," continued Wood,
with a signature that may look familiar

Angus gulped. "Too bad," "Too bad," laughed Wood, "you ried through a hole in the side of the youldn't go in with me on a 50-50 basis." box, and connected to the receiver the Wood left him, and the forlorn radio same as an ordinary lead-in of a single detective did some quick bookkeeping. Instend of netting \$15,000, his first case had cost \$700 in telephone bills and \$250 for that Jenkińs crook of St. Louis.

"It has been a great lesson," Angus soltioquized. "I'll never start work on level that Jenkińs crook of St. Louis.

"It has been a great lesson," Angus sattons on the underground coil, he besoltioquized. "I'll never start work on level that its main advantages are its

And he tuned in on the receiving act ers. to drown his woes in jazz,

Robert Davies Declares There's No Such Thing as "Dead Spot"

Providence Man Who Won Gold Medal for Logging Most Foreign Stations During Recent International Radio Tests Ridicules Accepted Theory.

street, who recently was awarded a gold medal for logging the greatest number

The location had nothing to do with his success, Mr. Davies claims, for neighbors call the Mitchell street section a "dead spot." He has proved they are wrong, he says, and that it is possible to get long distance in a poor location. His tangible proof consists of letters bearing the postmarks of half a dozen countries.

He has been using several sets, all of which he constructed himself, but the record claimed for his one-tube receiver is regarded with awe by listeners in his neighborhood. He says it picked up the following: 2LO, London; 2BD, Aberdeen; ing, enrypentry, paperhanging, bricklaying, 5SC, Glasgow; WKAQ, Porto Rico; IKFKX, Hastings; CFCN, Calgary, Canint making, upholstering, phonograph work and radio. ada, and others.

he claims to have heard the following: where he served as a ranch hand and a CLV, Liverpool; 2LO, London; 5WA, Car-

"Dead spot? Bunk! There's no such says, when a loop aerial is connected bething!" says Robert Davies, 51 Mitchell tween the underground antenna and the receiver.

He attributes much of his success in of foreign stations during the international radio tests held in January. "All you need is a good circuit, patience in tuning distant stations and plenty of ground."

The attributes much of mis success in receiving foreign stations to his patience in tuning and his ability to detect frint oscillations, and to adjust his set in order to get the most out of them. The attributes in this opinion, is too hasty in his dialing and unwittingly rides over stations that he should be able to tune in

Mr. Davies does not understand the Con-tinental radio code, but he is an habitual listener for long distance broadcasts. He is on the air practically every night until 1 or 2 a. m. Ho became interested in electricity 20 years ago when he was living in Bolton, England. Ho read of Marconi's wireless work as a boy and conducted approximation of the second statements of the second statements. ducted numerous experiments of his own with an induction coil.

He has had a great variety of experience throughout his life and states with some pride that he is a "jack of all trades." He has had more or less training in all of the following lines:

ada, and others.

He came to this country in 1909 and
Uusing a number of different receivers for a time he was employed in a mill
during and since the international tests,



Robert Davies of Providence Tuning in on the Four-Tube Receiver

vian Broadcasting Company, Lima, Peru; had notable reputation for EAJ7, Madrid, Spain; SBR, Brussels, Belle loft; He has been an ardent radio glum; 6BM, Bournemouth, England; 6SC, fan since broadcasting became popular. Glasgow; 150, Rome; CRQ; Portugal, also stations in Munich, Stuttgart and fainburg, Germany.

Hamburg, Germany.

He has received positive verification of his reception of 2LO, London; 2BD, Aberdeen; SBR, Brussels; 5SC, Glasgow, and Hamburg, Germany. He expects to receive confirmation from the others soon.

The complete list of foregoing stations he bank.
With an innocent smile she turned to Wood.
"Now may I see your specimen?" she a five-tube radio frequency receiver and sisked. a three-circuit tuner with one stage of radio frequency. Reception has been equally good, he says, at his home and at his lons were heard between midnight and

in the morning. The circuit of the one-tube receiver has a number of features which distinguish it from the many of these new in use. to quality of the little net, he believen, is a combination vario-coupler and variometer. He has covered this with a mineral preparation which his experiments show add to its efficiency. The

coll is not low-loss, nor the condenser straight line radio frequency.

He has taken great pains to secure the maximum efficiency from his ground, for he believes that incoming radio waves should have the utmost freedom oscillating the material separating the plates and through the set into earth. His own sets known as the dielectric, has a great deal are grounded in 11 places, to the water to do with the capacity of a condenser. pines on both sides of the water meter udy. Angus was still at the phone.
"I expect to solve the mystery any min"I most of his tuning, he uses an or more." Angus shouted at him. "But dinary single wire outside antenna, but Intely he has been experimenting with an buried two feet in the ground. The di-

nertal collect in a small, wooden box and Seventy-five feet of phosphor bronze wire is colled flatly on the bottom, each turn being separated about one inch zinc protects the box and wire from mois-

The wire from the outer layer is car another crime until I'm sure a crime has ability ability to reduce atmospherics to some extent and radiations from other receiv-

Even better results are obtained, he

diff, Wales; 2BD, Abordeen; GAX, Peru- is an experienced boxer and wrestler and

MANY VARIABLE CONDENSERS

Prices Vary from Dollar Up, but Good Instruments Are Not Cheap. There are over 100 different makes of ariable condensers and some of them are good and others poor. By poor is not efficient from a radio viewpoint.

Variable condensers may be purchased from \$1 up, but it should not be supposed that a good variable condenser can be bought for the low figure. Some variable condensers have such high losses they absorb an otherwise strong signal and the result is weak signals.

plates to a variable condenser. There is one more stationary plate than variable. The standard sizes and their corresponding capacities follow: An 11 plate condenser is rated as .00025 microfarads: a 23 plate variable condenser as ,0005 micro-farnds and a 43 plate condenser as ,001 microfarads. This is not a hard and fast rule and when nurchasing variable ensors it is better to ask for the capacity desired.

The capacity of a condensor depends on the number of plates, their size and the spacing between them. A condenser whose plates are widely separated has less ca nd, for pacity than one of the same number of waves plates close together.

Air being a good dielectric is used in most variable condensers although if cas-tor oil could be used, the capacity would be higher for the same condenser.

The latest types of variable condensers are what is known as straight line frequency and give a uniform separation of stations according to their That is, with every 10 kilocycle separation

there is uniform spacing of the condenser.

Paint Will Spoil Set. Paint should not be used in a radio reelver. It will cause leakage, If the instruments are mounted upon wooder In the colls and condensers, no liquid of my kind should be used to improve their appearance.

Battery Lore

Any flame brought near a battery while it is being charged will result in an explosion, which sometimes is fatal. If it is necessary to look in a battery, do so

with the aid of a flashlight or

To-day's Programmes in Brief

For the convenience of radio fans, the following hourly schedule of broad-casting to-day is given in brief form, the complete programme being given under the regular listing of announcements. Figures following stations denote The hours are based on Eastern Standard Time.

LOCAL STATIONS \$145—Colmes, WDWF, 441, 10:45—Church, WEAN, 270, 1:30—Concert, WEAN, 270, 4:45—Concert, WEAN, 270, 4:45—Concert, WDWF, 441, 6:50—Concert, WJAR, 305, 7:50—Concert, WJAR, 305, 7:20—Concert, WJAR, 305, 7:30—Church, WEAN, 270, 9:15—Concert, WJAR, 305,

OUT-OF-TOWN STATIONS 9:00-Children's hour, WJZ, 455. 10:00-Church, WOAW, 526, Sunday school, WLW, 422. Sunday school, WSB, 428. Church, WQJ, 447. Church, WWJ, 252.

10:40—Church, WHB, 305. 10:45—Church, WHAR, 275. Church, WIP, 508. Church, WGR, 319. Church, WOO, 508. 10:50—Church, WEFI, 348. Church, WHZ, 333. 11:60—Church, WCAP, 460. Church, WHAS, 400. Church, WJZ, 455. Ghurch, KDKA, 360, Church, WCAU, 277. Church, WMCA, 341.

Church, WMCA, 341.

11:30—Church, WHN, 861.

11:45—Church, WSH, 282.

11:50—Church, WCCO, 410.

11:54—Church, WSB, 428.

12:50—Church, KYW, 586.
Church, WLW, 422.

12:15—Church, WHB, 365.

12:30—Church, WHB, 365.

12:30—Church, WEEI, 898.
Concert, WEY, 879.

1:50—Church, KOA, 822.
Church, KNX, 337.

1:50—Church, KNW, 391. Church, Church, KNA

1:33 — Church, KNA

1:35 — Church, KNA

1:50 — Church, KGW,

2:60 — Crehestra, WWJ.

Concert, WOC, 484.
Church, WEAP, 402.
Church, KGO, 261.
Musicale, WEEI, 348.
Orchestra, WLIT, 305.
Thurch, WIN, 301.

vich, KFI, 407.

4 recital, WH

WJZ, 47

shool,

34.

Concert, WEAP, 402.
Church, WEAP, 402.
Church, WEAP, 402.
Church, KGO, 361.
Musicale, WEEL 348.
Orchestra, WLIT, 305.
Church, WIN, 301.
Church, KFI, 407.
2:13—Sacred rectual, WHAR, 275.
2:30—Forum, WJZ, 455.
Sunday selvol, WOO, 508.
Coocert, WHAP, 240.
Sectial, WOAW, 526.
2:45—Sermon, WHAR, 275.
Musicale, CKAO, 411.
3:00—Concert, WGY, 370.
Church, WEAP, 492.
Address, WMCA, 341.
Organ, WEEL, 348.
Musicale, WFIL, 252.
Hible class, WHN, 361.
Musicale, WFIL, 252.
Hible class, WHN, 361.
Musicale, WFIL, 255.
Special, WHOA, 341.
Chofr, WHAP, 240.
3:45—Organ, WHAP, 240.
3:45—Organ, WHAP, 240.
3:45—Organ, WHAP, 240.
3:45—Organ, WHAP, 240.
Special, KNX, 337.
8:55—Vespers, WJZ, 455.
4:60—Dr. S. Parkes Cadman, WCAE, 461; WEAP, 462; WEIPI, 348.
WSAI, 326; WTAC, 268.
Concert, WGJ, 477.
Church, WCAP, 468.
Address, WHN, 259.
Bible study, WCCO, 416.
Organ, WWJ, 352.
Hible study, WENR, 200.
4:15—Community concert, WIG, 290.
Organ, WGY, 370.
Recital, WOAW, 526.
5:00—Musicale, KNX, 237.
Organ, WTC, 477.
Vespers, WFRL, 252.
Musicale, KNA, 327.
Pecital WOAW, 526.
5:00—Dressra, WHN, 561.
Concert, WRN, 259.
5:00—Evensong, WHAS, 259.
Musicale, WAA, 341.
Farmers' Hour, WFAA, 475.
Special, WMCA, 341.
Church, WSR, 428.
Special, WMCA, 341.
Church, WSR, 428.
Special, WMCA, 341.
Church, WSR, 428.
Musical, WSR, 492.

Musical WEAF, 492, Concert, WFBL, 252, -Concert, KGO, 361, Musicale, WBAL, 246. 6:45-Orchestra, WCAU, 277. 7:00—Orchestra, WCAU, 277.
7:00—Orchestra, WJZ, 465.
Musicale, WEAP, 492.
Veniers, KFI, 467.
Concert, WHZ, 283.
Orchestra, WMCA, 341.
Hible study, WOAW, 520.
Organ, WLS, 344.
7:15. Concert, WB, 544.

7:15—Concert, KBD, 545, Church, WIP, 509, Church, WCX, 517, Musicale, WBAL, 246. -Concert. WCAE, 461; WCAP, 469; WEAF, 492; WEEI, 348; WTAG, 268; WWJ, 352; WCCO, 416.

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Conference, WLIT, 305.
Church, WHN, 361.
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Concert, WHZ, 333.
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7:45-Church, WKRC, 422, Church, WGR, 319. Special, WEAF, 889. 7:50-Church, WIIAR, 275. 8:00—Church, KYW, 536. Paulist choir, WLWI, 289. Special, WJZ, 455. Concert, WIZ, 333. Special, WMCA, 841.

8:30—Special, WCAU, 277. Church, WI.W, 422. Special, WI-BL, 252. Musicale, WI-IT, 805. Organ, WEAR, 889. Church, WSM, 282. 8:45-Chimes, WHAI, 226, Church, WSB, 428, Special, WMCA, 341,

Special, WMCA, 341.

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10:30—Special, ICFI, 407.
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10:45—Concert, WOC, 484!
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RADIO PROGRAMMES

programme with an orchestral concert at 8 o'clock this evening, chamber music at 8 o'clock this evening, chamber music at 7, the Capitol Family at 7:20 and the other health talk by a member of the regular Atwater Kent hour at 9:15. To- Rhodo Island Medical Society at 8:20 and

morrow's specialties will include a vocal concert and reader at 1:05 p. m. and the grand opera, "Laktic," at 10 o'clock. The Edgewood Congregational Church choir will be heard in concert Tuesday evening at 7:20, followed by a talk under the auspices of the Providence Safety Council. Flint Grinnell of the Better Busi-



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Specialists

will be broadcast.

at 9 o'clock special Good Friday music

WEAN to-day broadcasts the morning service of the Mathewson Street Methodist Church, the usual noon concert, and the cantata, "The Crucifixion," this evening, as presented at Grace Church. This afternoon at 3:15 it will present, as a spefeature. Braham's Eastertide Requiem as given at Symphony Hall, Boston, by the Boston Symphony Orchestra, assisted by the Harvard Gleo Club and the Radeliffe Choral Society. To-morrow and daily during the week it will broad-cast the Lenten noon services at Grace Church in addition to the regular specialties. Tuesday and Thursday after-noons John Fitzpatrick will be heard at 4 o'clock in organ recitals. The Shakespearian Club will give the trial scene from "The Merchant of Venico" Tuesday night. Good Friday services at the Mathewson Street Methodist Church will be broadcast that night at 7:30. The Boston Symphony Orchestra will be heard Saturday night at 8:10.

WDWF will broadcast the usual Bible reading and chime concert this morning at 9:45 and a concert at 4:45 p. m. WJAR-THE OUTLIFF COMPANY-305

WJAR—THE OUTLAT COMPANY—305

To-day.

6:00 p. m.—George Barrero's Little Bymphony
Orchestra.

7:00 p. m.—Chamber music.

7:00 p. m.—Chamber music.

7:00 p. m.—Musical programme by Major Edward Bowes and the "Capitol Family."

9:15 p. m.—Musical programme by Major Edward Bonelli, baritone, and Helen Stanley, soprano. "The Palms," Faure, Richard Bonelli, baritone, and Helen Stanley, soprano. "The Palms," Faure, Richard Bonelli; aria, "Jewel Song" from Faust, Gound, Helen Stanley, aria, "Eri tu" from "The MasKed Jiali," Verdi, Richard Bonelli; lichlehujah, F. liummel, Songs My Mother Taught Mo. Dvorak, Bpring Drops a Song into My Heart, Fenner, Helen Stanley; Love's Festival, Folks Weingarten; No Sikhing Beloved, Tschaikowsky; The Templo Belle, Wood, Tschaikowsky; The Templo Belle, Wo

radio,
1:03 p. m.—Studio programme by William J. McKenna, baritone; Cecella Moreau, planist; Garvin Walden, tenor, and Gladys McCoy, reader.
1:30 p. m.—Veather report.
7:45 p. m.—Providence Dairy Grado "A" Entrainers.
8:16 p. m.—Earl Shean's Orchestra.
9:00 p. m.—A. and P. Gyosics.

0:00 p. m.—A. and P. Gypsies. 10:00 p. m.—Grand opera, 'Lakme,'

10:00 p. in.—Grand opera, Takime."

Tuesday.

1:05 p. m.—Providence Hillmore Concert Ororchestra from the Hotel under the direction of Erwin White.

1:30 p. m.—Weather report.

7:20 p. m.—Weather report.

7:20 p. m.—Edgewood Congregational Church Choir.

7:55 p. m.—Capt. Roberts will give one of the series of Safety talks under the auspices of the Providence Safety Council; subject, "The Fire Prevention Hureau."

8:00 p. m.—The Grand Prize Eurekas."

8:20 p. m.—Gold Dust Twins.

9:00 p. m.—Eveready hour.

Wednesday.

10:00 a. in.—Hotsewives Hadio Exchange. A department conducted by Mrs. Wood on all matters of household interest. All

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AT EXACTLY

questions submitted will be answered by radio,
p. m.—Green Acre Lodge Orchestra,
p. m.—U. S. Weather Bureau report,
p. m.—Musical programme,
p. m.—"Two in One Man and the Shindia thous."

7:30 p. m.—Musical programme.
8:00 p. m.—"Two in One Man and the Shinola Boys."
8:30 p. m.—Plavis Saxaphone Octette.
9:00 p. m.—Plant Sisters Orchestra.
9:50 p. m.—Flint Grinnell, manager of the
Providence letter Business Burcau, will
talk on Better Business Burcau activitles.
10:00 p. m.—"Alice in Wonderland."
Thursday.

10:00 p. m.—"Allce in Wonderland."

10:30 a. m.—Priscilla of the Mayflower Stores will talk to the housewives.

1:05 p. m.—Musical programme.

1:30 p. m.—Weather report.

8:00 p. m.—Hudson-Essex Orchestra.

9:00 p. m.—Glicanot Club Eskinos.

10:00 p. m.—Silvertown Cord Orchestra.

Priday.

8:20 p. m.—"Health Talk" under the auspices of the Rhode Island Medical Society; subject, "Care of Skin and Scalp,"

8:30 p. m.—Gorman's Jolly Bakers.

Scalp,"

8:30 p. m.—Gorman's Jolly Bakers,

9:00 p. m.—Special Good Friday programm
from New York city,

10:00 p. m.—Whitali's Anglo-Persians,

Saturday,

1:05 p. m.—Zikes Bon Ton Orchestra,

1:30 p. m.—Weather report.

WEAN—THE SHIEFARD COMPANY-270
TO-DAY.

10:45 a. m.—Morning service of Mathewson
Street Methodist Church.

10:35 a. m.—Morning, service of Mathewson Street Methodist Church.

1:30 p. m.—Concert.

3:16 p. m.—Branin's Requiem, broadcast from Symphony Hall, Roston. Boston Bymphony Circhestra, assisted by Harvard Clee Club and Radeliffo Choral Hoclety.

7:50 p. m.—Bacred Cantain, "The Gracilix-lon," broadcast from Grace Church.

MONDAY."

11:45 a. m.—Kalua Hawaiian String Quartet playing in The Shepard Cafeteria.

12:10 p. m.—Lenten noonday service broadcast from Grace Church.

12:30 p. m.—Weather report.

12:35 p. m.—Shepard Colonial Concert Orches-

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tra, 12:45 p. m.—Kalna Hawalian String Quartet, 4:00 p. m.—Musical programme, 4:30 p. m.—Weather report, 6:30 p. m.—Weather report, 6:30 p. m.—Grobestra, 7:30 p. m.—"Causes of Rheumatism." 8:00 p. m.—Broadcast from Metropolitan Theatre, Motropolitan Grand Orchestra, 12:30 a. m.—Midnite Club. 7:UESDAY

12:30 a. m.—Midnite Club.
TUESDAY.
10:00 a. m.—Home service talks by Miss
Kathleen Atkinson.
11:45 a. m.—Kalua Hawailan String Quartet.
11:55 a. m.—Time signalis.
12:00 p. m.—Shepard Colonial Concert Orchestransport

12:10 p. m.—Lenten noonday service broadcast from Grace Church. 12:30 p. m.—Weather report. 12:15 p. m.—Shepard Colonial Dance Orches-

4:30 p. m.—Organ recital by John Fitzpatrick broadcast from the Mathewson Street M. E. Church, 4:30 p. m.—Weather report, 4:35 p. m.—Honie Hygiene and care of the sick, under the auspices of the American ited Cross.

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6:80 p. m.-WEAN dinner dance, the Troubadours. 7:30 p. m.—Hoprano solos by Miss Marie Pearsal, Miss Perrenti, accompanist. 8:30 b. m .- Trial Scene from "The Merchant

of Venice," by the Shakespearian Club.
Wednesday.
11:45 a. m.—Kaina Hawalian String Quartet.
11:55 a. m.—Time signals.
Continued on Page Eight.

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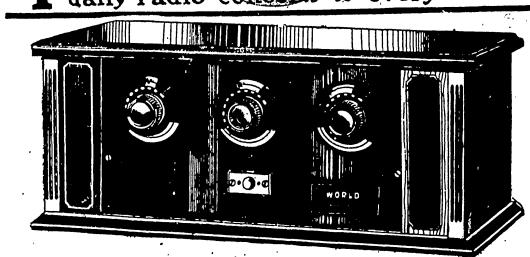


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9:00 a. m.—Children's hour.
11:00 a. m.—St. Thomas Episcopal Church.
12:30 p. m.—Symphonic Society concert.
12:30 p. m.—Forum.
13:155 p. m.—Vespors.
13:00 p. m.—Concert orchestra.

Continued on Page Ninc.



Another trip to a broadcasting station turned Smith's thoughts back into a channel that was new for him. All about him were evidences of electric power, gen-

dealt with are so minute and because the functions of the current at the re-

ceiving end are so detailed."

"That's half the answer." the other agreed. "But your main difficulty is your unfamiliarity with the first principles of electricity. In the operation of your sot electricity. In the operation of your set there is little genuinely new in the be-havior of the electric currents. The nov-elty in radio reception comes in the new

elty in radio reception comes in application of electrical principles."

Smith mentioned that he was familiar with the various forms of electricity. He in the electricity for one. This

could be in the form of space energy, all very complicated in the receiving set, either stationary or in motion, for he yet if you know the basic laws of electrecognized the necessity of such a contricity you can picture the whole set at dition if wireless communication were to be possible. He was familiar, in addition, with magnetism which the broadcaster defined as concentrated space ign-ergy. Of course, Smith was familiar with the type of electricity in motion which is the common form. Where he was experi-encing most of the difficulty, apparently,

that any of the other forms can produce tors, however unconscious you may be of the electric current in the wire. We take what you're doing." advantage of this when we rotate coils (Copyright, by the Ullman Feature Servof wire within a magnet, for under such

circumstances we generate a flow of cur

rent.
"In speaking of electric current passing through a wire we have considered only direct current. The alternating kind requires more complicated apparatus, but crators, switches, tubes, meters and the rest of the paraphernalia. It awed him. He was afraid of getting shocked into a new frame of mind.

"I've always figured the action of the receiving set as a sort of work of magic," he admitted to the broadcaster. "I suppose it's because the values of electricity dealt with are so minute and because the functions of the current at the retaining the signal arrangement for tadio work we call it radio frequency. its fundamentals are not so confusing as cause it is the special arrangement for radio work we call it radio frequency. This is also to distinguished it from audio frequency which is the rate of alternation of electric current which can be changed

by an eurphone into audible vibrations.

"When a current passes through a wire the laster offers resistance according to its size and the material of which it is made. In addition, the very passage of this current induces a magnetic electric effect, exceeding the wire. The magnetism rest, although subject to discharges which convert it, instantaneously, into electricity in motion. Under such circumstances it can be guided as Franklin demonstrated with the lightning rod.

Smith also understood that electricity could be in the form of space energy. effect around the wire. The magnetism

work.

"Another important feature in radio work is capacity, which is merely the term given to the ability of a circuit or a device to store electricity. Variable and fixed condensers take care of this while the colls take care of the induction through the temporary conversion of electric current into magnetism. Colls was in the change of one form of electric current into magnetism. Colis can be made to produce a bucking or self-plained this in broad terms with the idea of helping Smith get a better idea or what goes on in the receiving set.

"An electric current travelling in a wire when the radio frequencies are increased." can produce the other forms of electric When you fuss with the dials and tune energy." he went on. "It is also true in you make allowances for all these fac-

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6:20 p. m.—Chamber inusic, 7:20 p. m.—Musical programme from Capt-tol Theatre, New York, 9:15 p. m.—Atwater Rent programme, WCAE-PITTSBURGH-461 4:00 p. m.-Dr. S. P. Cadman for York.

York.
6:30 p. m.—Dinner concert.
7:20 p. m.—Capitol Theatre, New York.
9:15 p. m.—Atwater Kent programme.

WCAU-PHILADELPHIA-277

WCAU-PHHADELPHIA-277
11:00 a. m.—Servico from First Unitarian
Citofunch.
6:15 p. m.—Undenominational radio church
service.
6:45 p. n.—Orchestra.
8:30 p. m.—Harry O'Moore and the Bonwit
Teller Ememble.
10:15 p. in.—Special.

WCCO-MINNEAPOLIS-ST. PAUL-416 :50 a. m.-Plymouth Congregational Church

Minneapoils.

4:00 p. m.—Ilibio study, Lutheran Ilibio Institute, St. Paul.

5:10 p. m.—House of Hope Presbyterian Church, St. Paul.

7:20 p. m.—Second Church of Ohrist, Eclentist, Minneapolls.

9:15 p. in.—Atwater Kent programme.

10:15 p. m.—Weather report.

WCX-DEFROIT-517

D. m.-Services from Central Methodist
Episcopal Church.

WEAR—CLEVELAND—389
3:20 p. m.—Concert orchestra.
7:00 p. m.—Theatro orchestra.
7:45 p. m.—Special.

:30 p. ns.—Organ reeltal. :15 p. m.—Atwater Kent programme. WEAF-NEW YORK-192.

WEAF—NEW YORK—192.

2:00 p. m.—Service under auspices Greater
New York Federation of Churches.

3:00 p. m.—Young People's Conference, auspices of Greater New York Federation of Churches.

4:00 p. m.—Men's conference in the Bedford Branch Y. M. C. A., Brooklyn, N. Y.

5:20 p. m.—Metropolitan Male Chorus,

6:00 p. m.—George Barrero's Little Symphony Orchestra,

7:00 p. m.—Chamber music.

7:20 p. m.—Musical programme by the Capital Panily,

9:15 p. m.—Atwater-Kent programme.

WEEL-BOSTON-348. m .- Service from Old South Church m .- St. Mark's Church choir.

12:39 p. m.—St. Mark's Church choir. 2:09 p. m.—Special. 3:00 p. m.—Organ recital. 4:00 p. m.—Dr. H. Parkes Cadman, Bedford Branch Y. M. G. A. 5:30 p. m.—Concert group. 6:00 p m.—Special.

VALE & KIRK

Radio Service Specialists Repairing, Rewiring SETS BUILT TO ORDER Tel. Broad 3072 - Broad 3547-J 7:20 p. m.—Capitol Family. 9:15 p. m.—Atwater-Kent programme.

WENR-CHICAGO-266.

WFAA-DALLAS-175

5:30 p. m.—Farmers hour. 8:00 p. n.—Hiblo class. 10:30 p. m.—Service First Church of Christ, Scientist. 2:00 a. m.—Maio quartet,

WFDI_SYRACUSE_252.

WGBS-NEW YORK-310

9:45 p. m.—Annual Theatre Guild Entertain-ment and County Fair.

WGR-BUFFALO-319

3:30 p. m.—Orchestra . 9:30 p. m.— Scene from "Twelfth Night."

10:30 p. m.—l'opular programme.

9:15 p. m .- Atwater Kent' programme. WGY-SCHENECTADY-379

10:30 a. m.—Service of First Lutheran
Church, Albany, N. Y.

12:30 p. m.—Symphony Society concert.

3:00 p. m.—Musical programme from Syra-WEMC-BERRIEN SPRINGS-286. 12:00 m.—J.Ighthouse choir. 12:33 p. m.—Sermon. 9:15 p. m.—Miss Martha Hutchison, organist. 9:55 p. m.—Sermon. 10:10 p. m.—Mr. Ellis Maas, bass.

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4:30 p. m.—Organ recital. 7:30 p. m.—Bervice of First Lutheran Church,

 7:30 p. m.—Hervice of First Lutheran Church, Albany.
 9:00 p. m.—WJZ studio programme.
 10:00 p. m.—Godfrey Ludiow, violinist, from WJZ, New York. 3:00 p. m.—Musicale. 4:00 p. m.—Moody Bible Institute hour. 7:00 p. m.—Moody Bible Institute evening hour.

WHAP—NEW YORK—240 2:30 p. m.—Sacred nusic, 3:45 p. m.—Organ recital.

WHAR—ATLANTIC CITY—275

10:45 a. m.—Chelmen Baptist Church service.
2:15 p. m.—Sacred recital.
2:45 p. m.—Palm Blunday sermon.
7:50 p. m.—Chelmen Baptist Church service.
9:00 p. m.—An Hour With the Classics.

WHAS—LOUISVILLE—399
11:00 a. m.—Service under the auspices of St.
Bonicae Church.
5:30 p. m.—Evensonge

3:00 p. m.—Musicale.
4:30 p. m.—Plano recital.
5:00 p. m.—Peaper service of First Presbyterian Church.
6:00 p. m.—Music.
7:15 p. m.—Announcements.
7:30 p. m.—Evening service of First Methodist Church. · WIIB-KANSAS CITY-305 10:40 a. m.—Service Linwood Boulevard Christian Church.

12:15 p. m.—Service from Independence Boulevard Christian Church.

9:00 p. m.—Service from Fifth Church of Christ, Scientist.

12:15 a. m.—Itadio Feature.

WHN-NEW YORK-361

11:30 a. m.—Calvary service.
12:30 p. m.—Organ recital.
2:00 p. m.—Queens County Christian Endeaver programme.
3:00 p. m.—Bible class.
6:00 p. m.—Dance orchostra. 10:45 a. m.—Bervice from Westminster Presbyterian Church.
 7:45 p. m.—Service from Central Presbyterian Church.

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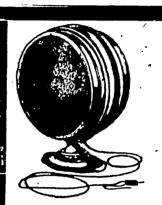
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7:30 p. in.—Calvary service. 10:15 p. m.—Anatol Friedland. 10:45 p. m.—Orohestra.

0:30 p. m.—Gala concert.

WIP-PHILADELPHIA-508
7:15 p. m.-Servico from Holy
Church.

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RADIO PROGRAMMES

Continued from Page Seven. 12:00 p. m.—Shepard Colonial Concert Orches

12:10 p. m.—Lenten noonday service broadcast from Grace Church, 12:20 p. m.—Weather report, 12:25 p. m.—Shepard Colonial Concert Orches-

12:35 p. m.—Shepard Colonial Concert Orchestra.

12:45 p. m.—Kalua Hawalian String Quartet.
4:00 p. m.—Wazz band.
4:30 p. m.—Jazz band.
4:35 p. m.—Jazz band.
6:30 p. m.—Jazz band.
6:30 p. m.—Jazz band.
8:30 p. m.—Jazz band.
8:30 p. m.—Sixth Episode, Radio Mystery Play, "A Step on the Stairs."
9:30 p. m.—Dance music, broadcast from Rhodes-on-the-Pawtuxet, Rhodes Orchestra, Charles E. Culverwel.
11:45 a. m.—Home Service Talks by Miss Kathleen Atkinson.
11:45 a. m.—Kalua Hawalian String Quartet.
11:55 a. m.—Time Signals.
12:00 m.—Stepard Colonial Concert Orchestra.
12:10 m.—Stepard Colonial Concert Orchestra.

11:55 a. m.—Time Signals.

12:00 m.—Shepard Colonial Concert Orchestra.

12:10 p. m.—Lenten noonday service, broadcast from Grace Church.

12:20 p. m.—Shepard Colonial Concert Orchestra.

12:25 p. m.—Shepard Colonial Concert Orchestra.

12:45 p. m.—Kalua Hawalian String Quartet.

4:00 p. m.—Organ recital by John Fitzpatrick, broadcast from the Mathewson Street M. E. Church.

4:35 p. m.—Talk by Grace Angell.

4:35 p. m.—Talk by Grace Angell.

4:36 p. m.—Mr. Thomas and His Xylophone, Mr. Bond, accompanist.

Silient night.

11:55 a. m.—Time signals.

12:00 m.— to 3:00 p. m.—Good Friday services broadcast from Grace Church.

6:30 p. m.—WEAN concert music.

7:30 p. m.—WEAN concert music.

7:30 p. m.—WEAN concert music.

6:30 p. m.—WEAN concert music.

6:30 p. m.—WEAN concert music.

7:30 p. m.—Special Good Friday programme, broadcast from Mathewson Street M, E. Church.

SATURDAY.

SATURDAY.
a. m.—Home Service Radio Club for Children, under direction of Miss Kathleen Atkinson.
a. m.—Time signals.
m.—Shepard Colonial Concert, Orches-

tra.

p. m.—Weather report.

p. m.—Kalua Hawaiian String Quartet.

p. m.—Shepard Colonial Concert Orches-

tra.

12:45 p. m.—Kalua Hawalian String Quartet.

4:00 p. m.—Shepard Colonial Dance Orcheatra, Harold Shefers, director.

4:20 p. m.—Weather report.

6:80 p. m.—Shepard Colonial dinner dance.

8:10 p. m.—Boron Symphony Orchestra.

10:20 p. m.—Orchestra. WDWF-DUTEE W. FLINT-441
TO-DAY
9:45 a. m.—Bible reading and chime concert
4:45 p. m.—Concert by The Screnaders.

OUT OF TOWN STATIONS To-Day

CRAC, MONTREAL-411 m.-Capitol Theatre programme

1:00 p. m.—Morning service, direction Angeles Church Federation.
7:00 p. m.—Wesper service.
9:30 p. m.—Special.
9:45 p. m.—Address on music.
10:40 p. m.—String Ensemble.
10:20 p. m.—Jum, Jack and Jean Trio.
11:00 p. m.—Organ recital.
12:00 a. m.—Orchestra.

KGO, OAKLAND-361 . m.—First Presbyterian Church service. . m.—Little Symphony Orchestra. . m.—First Presbyterian Church service.

KGW, PORTLAND-491
1:55 p. m.-Service of St. Stephen's Cathedral. dral.

10:30 p. m.—Service of East Side Baptist Church.

12:00 a. m.—Symphony Orchestra.

1:00 p. m.—Service of First Congregational Church. 5:00 p. m.—Musicale. 9:40 p. m.—Service of Trinlity Methodist Epfscopal Church.

KNX, LOS ANGELES—337

1:00 p. m.—First Presbyterian Church of
Hollywood,
3:45 p. m.—Concert orchestra,
5:00 p. m.—City Park Board musical programme.

gramme.
7:30 p. m.—Special.
9:30 p. m.—Hollywood Unitarian Church.
11:00 p. m.—First Presbyterian Church follywood.

a. m.—Feature programme.

KSD, ST. LOUIS-545
7:15 p. m.—Capitol Theatre programme.
9:15 p. m.—Atwater Kent programme.

KYW-CHICAGO-536

p. m.—Cintral Church service,
p. m.—Studio chapel service, auspices
Chicago Church Federation.
p. m.—Studio concert.
p. m.—Ohicago Sunday Evening Clubservice.

10:30 p. m.—Classical concert. WBZ-SPRINGFIFILD-333 1979 a. m.—Community Church service.
6:00 p. m.—Colden Itula Hour of Music,
7:00 p. m.—The Darimouth Players in radio
adaptation of "The Dancing Princess."
7:20 p. m.—Dinner concert. 8:00 p. m.—Programme from Holy Cross College, Worcester.

6:20 p. m.—Twilight programme. 7:30 p. m.—Musical programme.

WCAP-WASHINGTON-469 11:00 a. m.—Service from First Baptist Church. 4:00 p. m.—Service at Bethlehem Chapet, Washington Cathedral.

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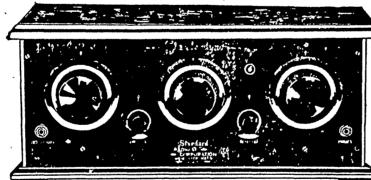
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A limited number only The set, speaker and storage battery are guaranteed one year against defective material or workmanship

LARGEST STOCK OF SETS AND PARTS IN RHODE ISLAND

"IF IT'S NEW AND WORTHWHILE IN RADIO WE HAVE IT" B. & H. SUPPLY

116 MATHEWSON STREET

5-Tube Standardyne Set Herald Cone Speaker 1—100 Amp. Hartford Storage Battery 90 Volts Everready **B** Battery 5-Radiotron U. X. 201A Tubes 1—Battery Cable

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Speaker

Phones Gaspee 5550-1-2-3

HOW CONDENSERS SHOULD BE USED

Differences of Familiar Types Are Explained by Writer.

Straight-Line Wave Condenser is Called Compromise Between Two Extremes. - Allows Latitude for Tuning .- New Combination Type

BY BRAINARD FOOTE.

The broadcast listener understands some of the differences of the three well-known types of condensers. These are the straight-line capacity, the straight-line wave length and the straight-line frequency condensers. They differ in shape of either set of plates and may be briefly described as follows:

S. L. capacity—Capacity and dial readings increase uniformly. Each dial degree represents a definite amount of capacity.

Each degree is so many meters.
S. L. frequency—Frequency and dial readings increase uniformly. Each degree represents a definite amount of frequency. Capacity increases very much faster than the dial readings.

Wave rengths are allotted to the sta tions in accordance with frequency dif-ferences by the Department of Commerce. This is done for a good reason. When stations operate on frequencies too close together, a howl or "heterodyne" note is set up, which will be extremely annoying and loud where a radio set gets both stations with about the same strength.

The farther apart in frequency these stations operate the higher pitched be-comes this howl, finally getting so high, it annot be heard. Stations are allotted frequencles for transmission just near mough to get as many as possible on the ar without any howling. Theoretically, therefore, a tuning scale uniformly divid ed off into spaces of equal frequencies Expansion of Radio Unites Dark would be the most satisfactory.

But there were two classes of broad casting stations, A and B. Class A stations are those of lesser power and lesser importance, having wave lengths less ser importance, having wave lengths less than 300 metres. These stations are permitted to operate on the same wave lengths or very nearly the same wave lengths, if they are a certain moderate distance apart. For a very sensitive set, as a huge quantity of our sets are, these closely operating stations set up howls and actual interference.

But above 300 metres we have many of our best stations, with a greater mile age between those having nearly the the same wave length. Hence appreciable heterodyning Hence we have no in having the straight-line frequency condenser we find the 300-metre mark about half scale, or 50 degrees. And many of our good stations are included within only one-half of the scale. And in this half of our scale we have crowded them, making it a more difficult process to tune them in. This is worth thinking about.

totally out of date. It hopelessly crowds the short wave stations up to 300 metres in a very small space on the dial, perhaps allowing them only 20 degrees. Hence this sort of condenser should be avoided

The straight-line wave length condenser is a pretty good compromise between these two extremes, and it includes the former class A stations between the limits of 0 and about 32 or 35. That allows fair latitude of tuning and yet leaves considerably more than half the dial for the other stations. Personally I prefer this type of condenser. There is, however, will another kind of variable, some of them just on the market, which aim to take care of both situations.

This is the combingtion of SLAV-SLF variable condenser. It tunes, according to the straight-line frequency principles, up about 300 metres and then the curve of the plate changes and follows the straight-line wave length law. This permits very easy tuning on both ranges, and is an easy solution to the problem of

convenient tuning.

To further facilitate tuning, it is well

SPECIALS FOR MONDAY

PURE CREAMERY BUTTER 2 lbs. 89c BRICK CHEESElb. 32c

TOP ROUND STEAK lb. 30c to 45c

PORK CHOPS lb. 23c to 38c

CORNED BEEF BRISKET . . . lb. 15c

(Med. Weight Beef, 1000-lb. Lot)

BONELESS'SMOKED SHOULDERS . . Ib. 27c

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GRAHAM FLOUR5-lb. bng 270

PEAScan 17c

SAUER KRAUTlge. can 10c (Reg. 12c Silver Thread)

FIG NEWTONSpkg. 10c

GOLD DUST SALE FOR THIS WEEK

EASTER LILIES, TULIPS, DAFFODILS and GERANIUMS WILL BE ON SALE TUESDAY

Providence Public Market

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FOR

arranged that they obtain 550 metres at about 100, without regard to what hap-pens at the lower end so long as it is 200 or less. It usually goes less. The ideal arrangement, to my mind, is one where the 200-metre stations begin at zero and the 550-metre station comes in at 100. This allows very gradual tuning on short waves, where it is most needed.

It is a difficult matter, however, to accomplish this. If you hook up the set

and leave the tuning condenser at zero, and then wind on enough turns to bring the wave length to 200 metres, you are quite apt to discover that 550 metres comes in at 80.

The nature of the coil has a great deal

to do with this. Recently in making up a one-tube receiver which I wanted to have cover the scale evenly and fully, without any "dead" spaces on the dial, I tried this stunt. I had a SIAV condenser and a space-wound coll where the disributed capacity is very low.

This, by the way, is conceded to be practically the most efficient, provided it is wound on a suitable skeletonized frame work of high-grade insulation with the turns as nearly circular as can be. The space between turns is about equal to the wire's diameter

I had a three-inch tubing and had to put on almost 70 turns before the wave length at zero on the dial was 190 metres. S. L. capacity—Capacity and dial readings increase uniformly. Each dial degree represents a definite amount of capacity. S. L. wave length—Wave length and dial readings increase uniformly. Capacity increases faster than the dial readings.

capacity of the condenser.

Naturally, this had little effect on the capacity at zero. It was easier to remove the rotor than the stator plates, so I started in. After I had removed about six plates from a 23-plate instrument. I got 650 metres at 95 and 200 ment, I got 650 metres at \$5 and 200 metres at \$5 and 200 metres at \$5 degrees. Then I discovered that short-wave tuning meant a lot more than it did when 200 metres started in around 15 degrees. And at the same time there was plenty of room left for the good high-wave stations. good high-wave stations.

"HAMS" ORGANIZE

Continent With Civilized World

south African Radio Relay League Now Covers All Southern States. DX Experts Establish Two-Way Communication With Europe and

Radio amateurs in Johannesburg, South Africa, section of the world have finally says. organized their activities. The South At-rican Radio Relay League, founded on the public. One can reach thousands regrican Radio Relay League, founded on the public of a radio Relay League, founded on the same plan as the American Radio is not strong enough to actually carry then the Straight-line frequency conser we find the 300-metre mark at or 50 degrees. And rican Radio Relay League, founded on can continent.

Portuguese East Africa, Rhodesia, Natal and the entire Cape country are included in this smoothly functioning amateur radio organization. When first projected The straight-line capacity condenser is it functioned only within its component parts; that is, in the various States comprising the league. Later it moved forward and carried on a traffic system after the fashion of its American counterpart.

At this stage of its development the league decided through its official magazine, Radio, to conduct a department of "Ham Gossip," in which all of the South African amatours, or "hams," might ex-change ideas and suggestions. In its news qualities this department indicates that the outlook of the "ham" is much the same in South Africa as it is in Aus-

tralia, America or Europe.

The latest efforts of the South Africans, fostered by the league, have led to "DX," or long-distance work. So successful have many of the amateurs been that the composite log of member stations of the South African Itadio Italay Lengue show successful two-way communication tween South Africa and England, United States, Australia and South American countries, notably Brazil and Argentina.

To Further facilitate tuning, it is well to make the coil and condenser agree with each other to the extent that the wave length range of 200 to 550 metres is just mocly covered.

Have all the tubes resting properly in sockets. See that the springs are "springy," and that they exert enough upward pressure to keep the bulbs tight Most tuning condensers and colls are so against the bayonet lock of the socket.

KADIO POPULAR

Provides Most Direct Appeal to Large Audiences.

Latchstring is Always Hanging Out for Radio Artists,-Public Has sonalities,--"Roxy" is Just One

The broadcasting studio is considered by many entertainers as an amazing Every season since broadcasting started score or more of names have suddenly become household words, and singers and musicians who had climbed but a few rounds of the ladder by years of effort have become celebrities overnight, says

the New York Times.
A careful estimate places the total number of receiving sets in the United States to-day at about 5,000,000. The average number of listeners to each set is calculated to be about five.

There is, besides, a direct appeal in the radio which the preacher, political crator or the author rarely enjoys. . The latch string is always hanging out for the ra-dio artist. His voice enters the home circle without the slightest hindrance, He heard regularly in good weather and bad, in and out of season.

One of the most surprising examples of sudden fame by radio is that of S. L. Rothafel, "Roxy." Until he began broadcasting his name was not very familier in New York. His weekly talks over the air created particular impression from the beginning and the seed of his popularity was widely sown. When "Roxy" visited Washington so great was his popularity, due wholly to his radio speeches, that he was met at the station by a crowd and a band, voluntarily assembled.

"Radio has done more for me than anything else in the world," says "Roxy." "It has given me an insight into the psychology of people's likes and dislikes far greater than that which I could have obtained by personal contact with audiences in the theatre. It has been an inspiration to me, and as long as I can I shall broadcast and carry on along

The stimulating effect of the radio in spreading fame is frankly acknowledged by many clergymen. Probably no preacher has ever addressed so large a congregation in all history as Dr. S. Parkes Cadman. Dr. Cadman's personal reactions are interesting.

"I find radio a great inspiration," he says. "It has immensely increased the Once one has caught the attention of such a congregation, however widely scattered, the preacher faces a remarkable oppor-tunity. In arranging the hours for my

ever I go on tour," said Vincent Lopez. "I find myself playing to audiences who have already heard my orchestra and are familiar with my music. In hundreds of cities and towns the population has heard my orchestra broadcast. The orchestras. in fact, depend to-day so largely upon radio to prepare their audiences outside New York that an orchestra which has not been broadcast would have difficulty in succeeding, on the road.

As might be expected Billy Jones and Ernest Hare take a cheerful view of their indebtedness to radio. Since the following interview was given in a conversation with both these sides and the sides of t with both these well known entertainers with both these well known entertainers they may be quoted with a plural pronoun. "Naturally radio means a great deal to us," they said, "but its greatest gift is to bring us countless friends and admirers. We received more than 2000 our friends writes to us. You see that Christmas cards. It is conservatively estimated that about one in a hundred of timated that about one in a hundred of radio means that we have a great army of well wishers, which alone is priceless'

Survivor of Gold Rush Hears First Radio Receiver.

Only Inhabitant of Abandoned Mining Camp Has Not Seen Railroad Lives 100 Miles from Nearest Telegraph

From 'central Idaho-Bonanza, an abandoned mining camp in the heart of the old West-comes a scrawled message to station KOA at Denver, which rings with pathos, hardship, romance and adventure.

It concerns Sebastian Georgetta, sole inhabitant who for half a century has not seen a passenger train or street our and now in his rapidly declining years, has just experienced the first thrill of radio. The communication, written by a party of seasoned trappers and prospect-ors, is considered one of the most inter-cating over addressed to this station.

esting over addressed to this station.

Itobinson's Bar, once a flourishing galoon, was the recent gathering place, the letter explained, for radio programmes. Georgetta occupied a front seat.

"Every note was distinct last Monday night," wrote Barzilla W. Clark, correspondent for the group. "The old prospector listened intently to the music, sliding a little lower into his chair with each new number. It must have been his first experience with the phonograph.

experience with the phonograph.

"Finally, with a muffled thump, he was sitting on the floor. He bacame nervous when he thought of the many long miles over which the music from Denver was

sounding.
"'Some day,' said one of those present when some day, said one of those present, when some of the rest of us wake up and find out how much there is to learn still, we, too, may find ourselves sitting on the floor."

radio sermons I select a time which will not conflict with the regular services in the churches. The unseen congregation is not kept from attending church."

The popular orchestras of the country are known far and wide by radio. "When-

SPECIALS FOR MONDAY AT THE WEYBOSSET PURE FOOD MARKET

Best Creamery Butter - - - - - 2 lbs. 89c

Cut from Tub

Guaranteed Strictly Fresh Eggs, 2 doz. 67c

DELICATESSEN

CRACKER DEPT. Boiled Ham, sliced 70c lb Educator Ginger ettes, a new Ginger Wafer. . . 25c lb Ginger Wafer... 25c lb

Reg 75c Beef Loaf25c lb Reg 29c

Atlantic Biscuit Co. Crisp and Tasty

ERESH GROUND HAMRURG STEAM

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FRESH	PORK CHOPS	. 25	6c -38 c	lb
BLICED	CALVES' LIVER		26 c	lb
LICED	BACON		320	lb
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Fresh Opened Cape Fancy Fresh Fillet of Good Luck Pie Crust, Fresh Newport Flatfish,
Black Backs... 9c lb 2 for33c
Fancy Fresh Virginia
Jack Shad35c lb Van Camp's Chill Sauce,
Bea Shad35c lb Van Camp's Chill Sauce,

Best Pink Salmon-Clams 30c qt | 15c tall can—2 for 29c 8ole 19c lb reg 15c ca.. 2 pkgs 25c 🛪

Roe Shad45c lb reg 32c29c Jar

Mother Hubbard Flour, reg. \$1.65 - \$1.55 bag

Reg 10c each

· All Varieties

BEST CAULIFLOWER10c lb BEST BALDWIN OR GREENING APPLES. 4 qts 45c EXTRA FANCY WINESAP APPLES, small size, 23c doz FANCY FLORIDA GRAPEFRUIT 3 for 27c

DEMONSTRATIONS: Pilisbury Pancake Flour, Hebe Pale Dry Ginger Ale



WEYBOSSET, HAY, PINEand PECK STREETS

OUR NEW TELEPHONE NUMBER IS GASPEE

RADIO PROGRAMMES

Continued from Page Eight. 8:00 p. m.—Special. 9:00 p. m.—Concert orchestra. 10:00 p. m.—Godfrey Ludlow, violinist; Lolito Cabrera Gainsborg, planist.

WKRC-CINCINATI-325
7:45 p. m.—Service of Walnut Hills Christian Church.
11:09 p. m.—Classical programme.
12:15 p. m.—Dance programme.

WI.W-CINCINNATI—422

10:30 a. in:—Sunday school.

11:30 a. in.—Weather forceast.

12:40 p. in.—Service of the Seventh Presbyterian Church.

5:00 p. in.—Organ recital.

8:30 p. in.—Services of the First Presbyterian Church of Walnut Hills.

9:30 p. in.—Concert.

WLIT-PHILADELPHIA-395

WMAK-LOCKPORT-266 10:20 a. m.—Service from Pirst Presbyterian Church, Lockport.
 7:30 p. m.—Service from Churchill Tabernacle, Buffalo.

WMCA-NEW YORK-341

WMCA—NEW YORK—341

11:00 a. m.—Service of Second Church Christ, Scientist,

3:30 p. m.—Special,

6:00 p. m.—Hemor's Homers,

7:39 p. m.—Ernie Golden and his orchestra,

7:39 p. m.—Ernie Golden and his orchestra,

7:30 p. m.—Parody orchestra,

10:15 p. m.—Special,

10:30 p. m.—Orchestra,

12:00 p. m.—Entertainers,

WOAW—OMAHA—526 10:00 a. m.—Chapel service. 2:30 p. m.—Special. 7:00 p. m.—Hible study. 10:00 p. m.-Chapel service.

WOC-DAVENPORT-481 2:00 p. m.—Orchestra concert, 7:20 p. m.—Church service of Methodist Epis-copal Church, Hillsdale. 9:15 p. m.—Atwater Kent programme. 11:00 p. m.—Little Symphony.

WOO-PHILADELPHIA-508 WOO-PHILADELPHIA—508

10:45 n. m.—Service of Bethany Presbyterian
Church.
2:30 p. m.—Musical exercises opening Bethany Sunday school.
6:00 p. m.—Sacred recital.

WPG—ATLANTIC CITY—209
3:15 p. m.—Organ recital,
4:15 p. m.—Community vocal and instrumental recital,
0:00 p. m.—News flashes,
0:15 p. m.—Orchestra,
10:15 p. m.—Wildwood Baptist Church choir.

WQJ, CHICAGO, 447 10:30 a. m.—People's Church of Chicago.

4:00 p. in.—Special. 0:00 p. m.—Jack Chapman and his orchestra.

tra. WRNY, NEW YORK, 258
2:30 p. m.—National Security League.
4:00 p. m.—Dr. Reisner's Hour.
5:00 p. m.—Twilight concert.

WSB, ATLANTA, 428 10:30 a. m.—Sunday school programme from Baptist Tabernacle. 11:45 a. m.—First Presbyterian Church serv-6:00 p. m .- The Jenkins family in gospel 8:45 p. m.—First Methodist Church service. WSM, NASHVILLE, 282

WSAI, CINCINNATI, 326 4:00 p. m.—Men's conference, Bedford Branch Y. M. C. A., Brooklyn, N. Y. 8:45 p. m.—Chime concert, 9:00 p. m.—Sermonette. 9:15 p. m.—Atwater Kent programme.

WTAC, HARTFORD, 475 WTAG, WORCESTER, 268

 4:00 p. m.—Men's conference in the Bedford Branch Y. M. C. A., Brooklyn, N. Y.
 9:15 p. m.—Atwater Kent programme. WWJ, DETROIT, 352

10:00 a. m.—Service from First Presbyterian Church.
2:00 p. m.—Orchestra,

they are on the air.

UNDERTAKERS, ALSO

Chicago Firm Joins Brondensting World Proved Help in Business.
A Chicago broadcasting station, WBCN claims the distinction of being the only radio station to broadcast regularly from an undertaking chapel. Perhaps, the strangest angle of this story is that this firm finds that broadcasting has helped its business, which fact accounts for the recent increase in the amount of time

If the wire of an antenna is not protected from the air it will corrode, raising the high-frequency resistance, and reducing the signal strength. Insulation of enamel has been found suitable covering and will give better results. Cop-per wire corrodes quickly when it is exposed to the air. When the wire is first erected it is seen to be bright, but in a few days it becomes dull, due to the cor-

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SCOTCH HAMlb. **52c** and **55c** LARGE DISPLAY OF EASTER HAMS AND BACON PURE CREAMERY BUTTER 2 lbs. 89c CALIF. NAVEL ORANGESdoz. 29c ICEBERG LETTUCEhead 100 COLUMBIA JAM28-oz. jar 250 GOLD MEDAL BUCKWHEAT FLOURpkg. 10c (Reg. 12c) SEE OUR DISPLAY OF POTTED PLANTS

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-"CASH AND CARRY"-PRICES FOR MONDAY

We Are Running This Special Cut Price Sale to Encourage Personal Shopping. You Owe It to Your "Pocket Book" to Come to Market Monday. Don't Miss This Sale — Every Item Is a Wonderful Money Saver.

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Genuine Shoulder LAMB CHOPS lb. - 28c

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Lean Pork Chops, Ib. - - - 25c | Native Veal Chops, Ib. - - - 25c

Fresh Ground Hamburg, lb. - 10c | Sliced Calves' Liver, lb. - - - 24c

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SUGAR, 10 lbs. 49c

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Fresh Baked **GINGER SNAPS** 2 lbs. - 21c

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Reg. 30c **BUTTER THINS** I - 20c

PROVIDENCE CURED FINNAN HADDIES or HADDOCK, lb. - - - / C

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