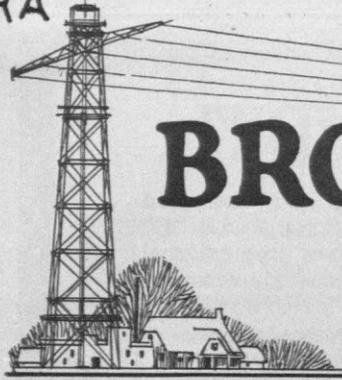


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RADIO BROADCASTING NEWS



Vol. 2

JUNE 10, 1922

No. 2

The Popular Pastime of Today



Oren L. Jeffries Jr. of Columbus, Ohio, Prefers this to Baseball.



"It's a Real 'B'!"

That's what everybody says who has seen and used the Willard 24-Volt Rechargeable Radio "B" Battery. Quiet—because the glass jars stop external leakage. Unusually long lived—surprisingly economical. Rechargeable.

The Willard All-Rubber Radio "A" Battery has one-piece rubber case Threaded Rubber Insulation.

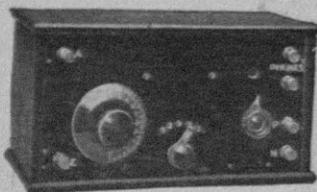
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Willard

THREADED RUBBER BATTERY



**Harko Senior
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Radio Receiver**

THIS HARKO SENIOR RADIO RECEIVER has been developed to supply the demand for a low priced, efficient receiving outfit, having a range of from 120 to 600 meters, thus bringing in on the average amateur-antenna amateur stations radio telephones and commercial stations, operating up to and including 600 meters.

This is a special hook-up of a tapped inductance, a Crosley Model "a" Rheostad, Crosley Variable Condenser, a Crosley V. T. Socket, a Crosley Grid Condenser and Leak.

All parts are mounted on a panel of Formica. The surface is ground; the binding posts marked and the whole thing mounted in a mahogany finished cabinet.

On rare occasions we have heard Pittsburgh. This set is very efficient and the price is **LOW**.

Price complete as described without Tube, "B" Battery, "A" Battery or Phones Only \$20.00.

Absolutely guaranteed or your money back.

We can furnish a Crosley Two-Step Amplifier to work with this Senior Radio Receiver for the low price of \$25.00.

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Published Weekly to increase interest and enjoyment in Radio Broadcasting.

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EDITOR, RADIO BROADCASTING NEWS, 1205 Keenan Building, Pittsburgh, Pa.

Subscription One Dollar per Year.

Five Cents per Copy.

Vol. 2

June 10, 1922

No. 2

Dead Man's Ear Model for Telephone Transmitter

Few people know that a human ear was used as the pattern for the first telephone transmitter.

To those who read the National Geographic Magazine this will not seem so strange, for Dr. Bell, reminiscing in a recent issue of that magazine, tells of his deep interest, even when a boy, in the human organs of speech and hearing. On one occasion he and his brother constructed a model of the vocal organs, which by manipulation produced the simpler sounds of the human voice and even pronounced some syllables distinctly enough to be deceiving.

While still quite young he assisted his father in his work of teaching the deaf to speak by reproducing the human voice in a visible form. He had examined the phonautograph, which recorded in a graphic way the vibrations of the air produced by sound.

Young Bell had been studying the problem of transmitting the voice by means of electricity. One day he discussed with his friend, Dr. Charles Blake, an ear specialist of Boston, the possibility of constructing an instrument more nearly like the human ear than had yet been done. Dr. Blake suggested that a real ear be used, and offered to provide one for the

experiment. A piece of straw was fastened to one end of the stapes bone, the other resting on a piece of smoked glass. When sounds were spoken into the ear the vibrations caused the straw to move on the smoked glass, making a record even more remarkable than the phonautograph.

The result of this experiment was the construction of the first telephone transmitter, in which the ear drum was reproduced by means of parchment to which was glued a piece of clock spring in place of the bone and straw. The voice caused the parchment to vibrate and move the piece of steel. This was placed in a magnetic field and the vibrations of the steel produced the necessary currents for transmitting the voice through wires from place to place. With this crude instrument the first telephone message was transmitted.

Less than fifty years have passed since that night when a human ear was used for an experiment, yet today the human voice is broadcasted throughout the land and may be heard by thousands, yes even millions of people at the instant of speaking, and though separated by hundreds of miles.

With such rapid progress in less than half a century, what may the youth of today expect to see within the period of their life-time.

Programs for the Week

These programs are prepared some time in advance of the dates and are subject to change. Programs in detail are published daily in your favorite newspaper.

Pittsburgh District

WESTINGHOUSE RADIO STATION KDKA
360 Meters Eastern Standard Time

Sunday, June 11, 1922

- 10:00 A. M. Services of the Calvary Episcopal Church, Pittsburgh, Pa. Rev. E. J. Van Etten, Rector. Harvey B. Gaul, Organist and Director.
- 1:45 P. M. Children's Bible Story—"The Giants in the Land of Promise."
- 2:00 P. M. Radio Chapel at Westinghouse Station KDKA, conducted by Rev. Carlton C. Bransby, Pastor Homewood Avenue Presbyterian Church, Pittsburgh, Pa.
- 7:00 P. M. Services of the Point Breeze Presbyterian Church Fifth and Penn Avenues, Pittsburgh, Pa. Dr. P. H. Barker, Minister.

Monday, June 12, 1922

- 6:00 P. M. Weekly Survey of Business Conditions. National Industrial Conference Board. From Pittsburgh Post Studio.
- 7:00 P. M. "Eugenics." Roswell Johnson, head of the Bureau of Oil and Gas Industries, University of Pittsburgh. From Pittsburgh Post Studio.
- 8:00 P. M. Program by the Malta Quartet of the George Westinghouse Commandry No. 5674 Pittsburgh, Pa.

Tuesday, June 13, 1922

- 6:00 P. M. Weekly Dress Talk. "Recent Developments in Cement." Col. H. C. Boyden, Portland Cement Association. From Pittsburgh Post Studio.
- 7:00 P. M. "Do You Know Your Cost?" James T. McLean, National Director the Industrial Cost Association and auditor the Pittsburgh Forge and Iron Company. "Old Glory's Birthday—Fly Your Flag and Put Your Heart Into and Behind It." William T. Kerr, President, American Flag Day Association, Pittsburgh. From Pittsburgh Post Studio.
- 8:00 P. M. Vocal selections by Emil C. Hennig, cellist; Helen M. Butler, soprano; Alma Burns, soprano; Oliver Evans, pianist; and S. B. Duncan, tenor.

Wednesday, June 14, 1922

- 6:00 P. M. Weekly Summary of "The Iron Age." From Pittsburgh Post Studio.
- 7:00 P. M. "Playgrounds and Recreation." Wm. S. Haddock, Purchasing Agent, County of Allegheny; former Sheriff of Allegheny County. From Pittsburgh Post Studio.
- 8:00 P. M. Piano solos by Mrs. Margaret Shelby Laurie and Miss Annie Laurie; soprano solos by Mrs. Mary J. Conway and readings by Mr. Earl C. Conway.

(Program continued on page 5.)

Baker 18K White Gold

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Artists from KDKA



Left to Right, Top Row:—Rollin Pease, concert baritone from Chicago; Charles H. Anderson, reader from Geneva College; J. P. Griffith, baritone.
Middle Row:—Juliet Bartlett, lyric soprano; and accompanist; Lyda McCain Peterson, concert soprano.
Bottom Row:—Joe Dremmett, guitarist; Vincent Kroen, baritone; Arthur Becker, guitarist.

Mention Radio Broadcasting News when writing to Advertisers

KDKA Entertainers



Left to Right, Top Row:—Otmar Eichenlaub, clarinetist; Grayce Druiitt Latus, travel and steamship editor, Pittsburgh Dispatch; Roman Eichenlaub, violinist.

Bottom Row:—Helen M. Johnston, soprano; John Richard, tenor; Fred W. Lotz, pianist.

(Program continued from page 4.)

WESTINGHOUSE STATION KDKA—Continued

Thursday, June 15, 1922

- 7:00 P. M. "Mechanical Refrigeration." John H. Fitzpatrick, Frigidair Sales Manager the Suburban Electric Development Company, Pittsburgh, Pa. From Pittsburgh Post Studio.
- 8:00 P. M. Program by Pittsburgh's violin prodigy, Viola Mitchell, pupil of the Margaret Horne Studio; vocal selections by Ethel Moore Miller, soprano.

Friday, June 16, 1922

- 7:00 P. M. "Profiteering and High Prices." Robert L. Wickline, Business Councillor, Pittsburgh, Pa. From Pittsburgh Post Studio.
- 8:00 P. M. A classical program by the Apollo Mixed Quartet of Pittsburgh, Pa.

Saturday, June 17, 1922

- 2:00 P. M. Popular concert by The Broadway Syncopators. From Pittsburgh Post Studio.
- 6:15 P. M. Popular concert by The Oxford Entertainers of Pittsburgh, Pa. From Pittsburgh Post Studio.
- 7:00 P. M. "History and Activities of the Triple K Club." Margaret A. Keller, Modist, McKees Rocks, Pa. From Pittsburgh Post Studio.
- 8:00 P. M. The Tchaikowsky Quintet of Pittsburgh. Readings by Mrs. Virginia Yeamans.

(Program continued on page 6.)

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THE IDEAL RADIO ANTENNA

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COPPER CLAD STEEL COMPANY
BRADDOCK P. O., RANKIN, PA.

Directions for Antenna construction on reverse side of carton

100 - 150 - 200 Ft. Per Carton

(Program continued from page 5.)

WESTINGHOUSE STATION KDKA—Continued

Sunday, June 18, 1922

- 10:00 A. M. Services of the Emory Methodist Episcopal Church, North Highland Avenue at Rippey Street, Pittsburgh, Pa. Rev. W. Wofford T. Duncan, Minister.
- 1:45 P. M. Children's Bible Story—"The Lost Boy Who Wasn't Lost."
- 2:00 P. M. Radio Chapel at Westinghouse Station KDKA, conducted by Rev. W. V. Bacon, Pastor Duquesne Baptist Church, Duquesne, Pa.
- 6:30 P. M. Services of the Calvary Episcopal Church, Shady Avenue, Pittsburgh, Pa. Rev. E. J. Van Etten, Rector. Harvey B. Gaul, organist and director.

KDKA'S WEEK DAY SCHEDULE

- 9:00 to 9:15 A. M. Music.
- 11:30 to 12:00 M Music.
- 2:30 P. M. Results of all league baseball games by innings. On Saturday, those of the International and American Association will be included. Final scores each day will include all hits and errors. On Saturday, baseball scores and a special popular concert beginning at 2:00 o'clock.
- 6:00 P. M. Baseball scores. Theatrical features.
- 6:15 P. M. Special Addresses or Popular Concerts.
- 6:45 P. M. Special News, Government Market Reports, Summary of New York Stock Exchange, Weather Report.
- 7:00 P. M. Special Addresses by business men and women. Baseball Scores.
- 7:30 to 8:00 P. M. Bedtime and Uncle Wiggily Story for Kiddies.
- 8:00 to 9:00 P. M. Musical Program. Baseball Scores.
- 9:55 to 10:00 P. M. Arlington Time Signals. Time given is Eastern Standard Time. For Daylight Saving Time add one hour. All Baseball scores are transmitted from the Pittsburgh Post Studio of Westinghouse station KDKA. Steinway Duo-Art Reproducing Piano Used.

**DOUBLEDAY-HILL ELECTRIC COMPANY—STATION
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Broadcasting Every Afternoon and 9:00 to 10:00 P. M.
Monday, Wednesday and Friday
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KDKA Entertainers

Quartet from Southern Club



Left to Right:—Mrs. Wm. O. Lee, Mrs. J. Fred Klooz, Mrs. J. C. Lockhart, and Mrs. W. P. Pollard. Inset is Bessie Butner Renner, reader with quartet. Mrs. C. Perry Kiefer, manager.

The Oxford Entertainers



Mason's Orchestra



First Baccalaureate Sermon by Radio



Left—Prof. Edward Rynearson; Middle—Dr. Barker in Pulpit at Point Breeze Presbyterian Church; Right—Dr. Wm. M. Davidson, Superintendent of Pittsburgh Public Schools; Bottom—Chorus from Fifth Avenue High School.

The baccalaureate sermon to be preached to the graduating Class from Fifth Avenue High School on June 11, will be the first occasion of this kind to be broadcasted over the radio telephone. The sermon will be preached by Rev. P. H. Barker, pastor of the Point Breeze Presbyterian Church, where these services will be held.

Dr. Wm. M. Davidson, superintendent of the Pittsburgh Public Schools, and Prof. Edward Rynearson, Director of Vocational Education will also have a part in this program.

New York and Eastern District

WESTINGHOUSE-RADIO CORPORATION STATION WJZ

360 Meters—Newark, New Jersey

Eastern Standard Time

Sunday, June 11, 1922

- 2:00 P. M. Radio Chapel Services; sermon by Rev. Percy S. Grant, D. D. Church of the Ascension, New York; Sacred Music Program.
- 3:00 P. M. Recital by Harold Land, baritone soloist of St. Thomas' Church of New York, courtesy Antonio Sawyer.
- 3:00 P. M. Reading for Boys by Wm. Heyliger, author of High Benton, Worker.
- 4:00 P. M. "The Power of Idealism," a literary vesper service conducted by Edgar White Burrill.
- 5:30 P. M. Readings and records from the "The Bubble Books that Sing" by Ralph Mayhew, courtesy of Harper & Bros.
- 5:45 P. M. "Sandman Stories," told by Kasper Seidel, courtesy Harper & Brothers.
- 6:00 P. M. "With Roberts in the Backwoods; His Life and Work Read from Secret Trails," by C. G. D. Roberts. These adventure stories for boys and girls from 8 to 14 years of age are broadcast through the courtesy of the MacMillan Company.
- 6:45 P. M. "Your Daily Bottle of Milk," by Mary S. Rose, Associate Professor, Department of Nutrition, Teachers' College, Columbia University.
- 7:00 P. M. The Camp Fire Girls, 150,000 in the United States will enjoy "Mammy Moon" and "Burn Fire Burn" sung by Ethel Rust Mellor, lyric soprano, from Baltimore, accompanied by Mrs. Henrietta Baker Low, of the Boston Conservatory of Music; Mrs. Oliver Herriman will read a message from Mrs. Warren G. Harding, Chairman of the National Advisory Council, and also send a personal message to the invisible audience.
- 7:30 P. M. Joint recital by Eleanor Lee, contralto, and Eleanor Warren, pianiste.
- 8:30 P. M. Recital by Mrs. Rose Sinsband Berlyson, pianiste.

Monday, June 12, 1922

- 5:00 P. M. "Business and Industrial Conditions in the United States," as observed by the National Industrial Conference Board.
- 6:00 P. M. Stories from the St. Nicholas Magazine, courtesy of the Century Company.
- 6:30 P. M. "Story of Pure Molasses" by Charles W. Taussig.
- 6:45 P. M. "The Romance of Copper", by Thomas D'A. Brophy, of the Anaconda Mining Company.
- 7:00 P. M. Concert by the National Biscuit Company Band of New York, 40 pieces, under the leadership of Frank Blanco.
- 8:00 P. M. Concert by the Bordentown Industrial School (colored) quartette, Ira Goodwin, leader; program of negro folk melodies, and spiritual and humorous selections.

(Program continued on page 9.)

HOMMEL

Radio Equipment Service for the Dealer

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How much of this, that, and other things should I carry?
These are the most vital of the many questions which the prospective dealer must answer—

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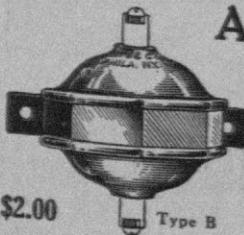
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Type B

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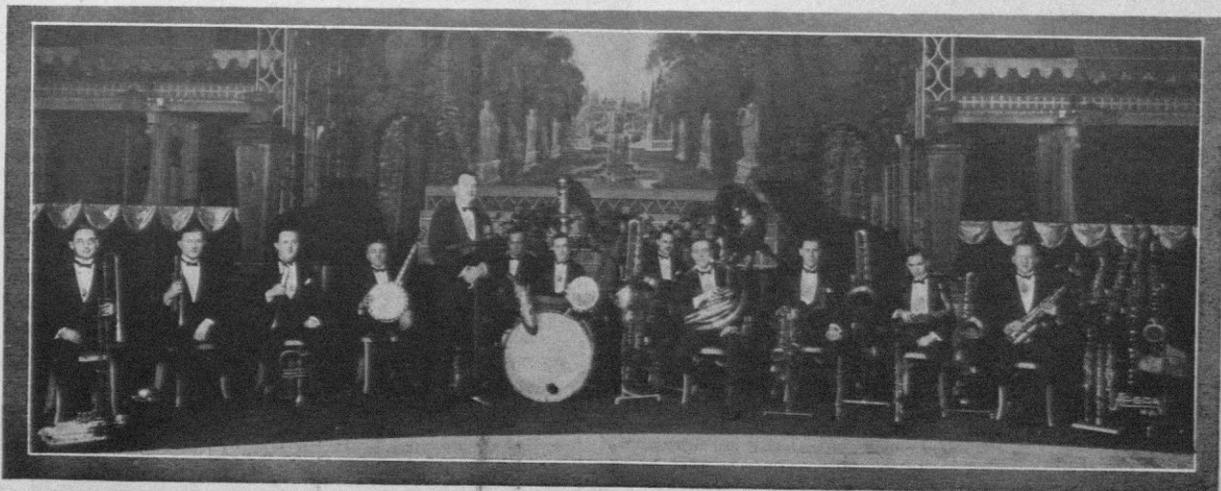
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Was Paul Whitman's Orchestra



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intelligent study of every order,
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DAVIS & WARDE

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(Program continued from page 8)

Tuesday, June 13, 1922

- 6:00 P. M. "Man in the Moon" stories, (c) Newark Sunday Call.
- 6:30 P. M. "Health and the Working Woman," by Miss Ida Tarbell, well known writer on economic subjects.
- 6:45 P. M. "Salesmanship" by K. M. Weighner of the Aetna Affiliated Company.
- 7:00 P. M. Concert under the direction of Chas. D. Isaacson, New York Evening Mail; one act from Cavaliera Rusticana by Pietro Mascagni; Elena Avedano, soprano; Jules Rigoni, tenor; Valentine Nierle, baritone; Lillian Miller, mezzo soprano; Lillian Golston, contralto; Lazar Samoiloff, conductor; Lazar S. Weiner at the piano.
- 8:30 P. M. "Imitation of Song Birds" by Edgar Avis; courtesy of the Columbia Phonograph Company.

Wednesday, June 14, 1922

- 5:00 P. M. "Review of the Iron and Steel Industries and their Relation to General Business Conditions," by the Iron Age.
- 6:00 P. M. "Animal Stories" by Florence Smith Vincent, New York Evening Telegram.
- 6:30 P. M. "Interpretation of Drug Labels," by Dr. W. S. Hubbard, Bureau of Chemistry, United States Department of Agriculture.
- 6:45 P. M. "The Genoa Conference" by Norman Haggood.
- 7:00 P. M. Concert by the Original Keystone Syncopators, Billy Becon, Jr., piano; Harrold Carroll, banjo; Harold Kirkman, violin; Bob Gehler, clarinet; Harry L. Bolter, saxophone; Julius Essig, cornet; Edward Hoelzer, trombone; Joe McCarthy, drums and traps.
- 8:00 P. M. Recital by Daisy Jean, cellist.

(Program continued on page 10.)

(Programs continued from page 9.)

Thursday, June 15, 1922

- 6:00 P. M. "Jack Rabbit Stories," by David Cory, New York Evening Mail.
- 6:30 P. M. "Care of the Hair," by Cora Coppinger, Charm Shop, Plaza Hotel.
- 6:45 P. M. "American Style of Architecture" by Charles W. Hoodley.
- 7:00 P. M. Concert by Tadeuz de Iaercki, Trio of New York.
- 8:00 P. M. Concert by the Tuxedo Davis Orchestra of Brooklyn.

Friday, June 16, 1922

- 6:00 P. M. "Man in the Moon" stories, (c) Newark Sunday Call.
- 6:30 P. M. "General Household Sanitation," by M. H. Oachs.
- 6:45 P. M. "Importance of Technical Training" by Horace E. Byers, Department of Chemistry, Cooper Union.
- 7:00 P. M. Literary Evening conducted by the Editorial Staffs of the Outlook, Scientific American, and Harper & Brothers.
- 8:00 P. M. Concert by the Essex Symphony Orchestra, consisting of 28 players, under the direction of Henry Wane.

Saturday, June 17, 1922

- 6:00 P. M. "Uncle Wiggily Bedtime Stories" by Howard R. Garis, the author of the "Uncle Wiggily Stories," printed in many newspapers and frequently on KDKA's and WJZ's program.
- 6:30 P. M. "How Literature Is Produced" by Prof. Walter D. Pitkin, School of Journalism, Columbia University.
- 7:00 P. M. Concert by the Quintet DeLuz Orchestra, Frank W. Merick, director; J. Giesselmann, violin; F. M. Merrick, banjo; Clifford Hotalling, piano; P. Mullenthaler, alto saxophone; Geo. R. Morton, soprano saxophone; Wm. Berger, trombone, P. Frutchey, drums.
- 8:00 P. M. Concert by the Lotus Male Quartette, well known throughout the East; George Bernard, first tenor; Franklin Karples, second tenor; Edward Zimmer, first bass; Harold Currier, second bass.

Sunday, June 18, 1922

- 2:00 P. M. Radio chapel services, sermon by Rev. Christian Reisner, D. D. of the Chelsea Methodist Episcopal Church of New York, sacred musical program.
- 3:00 P. M. "Books I Like," by S. S. McClure, editor McClure's Magazine.
- 3:15 P. M. Recital by the "St. Mary, the Virgin Choir."
- 5:30 P. M. Readings and records from "The Bubble Books that Sing," by Ralph Mayhew, courtesy Harper & Brothers.
- 5:45 P. M. Sandman Stories, told by Kasper Seidel, courtesy Harper & Brothers.
- 6:00 P. M. Adventure stories in the Far North for boys and girls from 8 to 14 years of age; courtesy MacMillan Company.
- 6:45 P. M. "Renovation of the Family Clothes" by Prof. Laura I. Baldt, School of Practical Arts, Teachers' College, Columbia University.
- 7:00 P. M. "Eat and Grow Thin" by Susanna Cocroft, the only woman in America who had U. S. Officers detailed to carry out her instructions in setting-up exercises, military drill, etc., in Washington during the war. At one time she had 3500 women and 75 officers, from

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ROME WIRE COMPANY

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Lieutenants to Colonels, under her direction on the White House lawn.

7:45 P. M. Recital by Sari Iissner, pianiste.

8:30 P. M. Joint recital by Mme. Radomsha, soprano from the Boston Opera Company and Orestes Biora, tenor.

WJZ'S WEEKDAY SCHEDULE

- 8:00 A. M. Agricultural reports and prices as released by the New York, New Jersey and Federal Agricultural Bureaus; music.
 - 9:00 A. M. Musical Program.
 - 10:00 A. M. Musical Program.
 - 11:00 A. M. Agricultural reports and prices as released by the New York, New Jersey and Federal Agricultural Bureaus; weather forecast.
 - 11:55 A. M. Arlington Time Signals; Music.
 - 3:00 P. M. Women's Fashions, by the Women's Wear Daily Newspaper.
 - 5:00 P. M. Official weather forecast; agricultural reports and prices as released by the New York, New Jersey and Federal Agricultural Bureaus; Shipping News (excepting Saturday) by the Marine Engineering and Shipping Age; Musical Program.
 - 6:00 P. M. Final Baseball scores; Children's stories and music.
 - 7:00 P. M. Final Baseball scores.
 - 8:30 P. M. (See detailed program.)
 - 9:52 P. M. Official Arlington time signals.
 - 10:01 P. M. Weather forecast, official.
- The time given is Eastern Standard Time.
For Daylight Saving add one hour.

(New York and Eastern District Schedule continued on page 14)

Chicago and Mid-West District

WESTINGHOUSE RADIO PROGRAM—STATION KYW

360 Meters—Chicago, Ill.

Central Standard Time

Chicago, Ill.—360 Meters

Sunday, June 11, 1922

2:30 P. M. Radio Chapel services conducted by Rev. George McGinnis, district superintendent of Illinois Anti-Saloon League, Musical program conducted by the Musical Directors of Mooseheart, Illinois

Monday, June 12, 1922

7:00 P. M. Musical program by Robertina Robertson, contralto; Fannie Hogan, reader; Jean McElroy, harpist; R. F. Elliott, first tenor; R. B. Ford, first bass; Henry B. Roney, director-accompanist; Dorothy Greathouse, soprano; L. M. Sturgeon, second tenor; Glenn Pray, second bass; Charlotte Allen, Youkona Wall Cameron and Mrs. Stickleman, accompanistes.

Tuesday, June 13, 1922

7:00 P. M. Concert courtesy of Lyon & Healy Concert & Artist Department, consisting of John Minnema, baritone; Mme. Hannah Butler, soprano; Fryne Bogle, pianist; Marion Levin, violinist; Stanley Weber, cornetist, and Henry Geiss, saxophone.

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It is the best all round Antenna Insulator on the market and it's inexpensive.

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Wednesday, June 14, 1922

7:00 P. M. Musical program by Kathleen Ryan, contralto; Madeline Ryan Twomey, accompaniste; Richard Ellensohn, bass; Pauline Dixon, accompaniste; Hawaiian Artists, courtesy of the Mele Hawaiian Studios., Chicago consisting of D. Pupaha, steel guitar; Janey Hickey, alto; R. J. Hollingsworth, steel guitar; J. Kapale, guitar, and J. V. Johnson, ukulele.

Thursday, June 15, 1922

7:00 P. M. Radio minstrels, by Reliance Quartette, A. M. Venema, first tenor; H. C. Meyers, second tenor; A. Foster, first bass and W. H. Childs, second bass; assisted by the Edison Symphony Orchestra, with Morgan L. Eastman, Conductor.

Friday, June 16, 1922

7:00 P. M. Program by Benson Music Entertainment, by arrangement with Lyon & Healy Concert and Artist Department.

Saturday, June 17, 1922

7:00 P. M. Concert by courtesy of William Lester; Margaret Lester, soprano; Lela Lowe Pierson, violinist; James Fiske, baritone and William Lester, pianist, accompanist.

KYW'S WEEK-DAY SCHEDULE

- 8:25 A. M. Opening Market Quotations, Chicago Board of Trade.
 - 9:00 A. M. Market Quotations, Chicago Board of Trade. Quotations every half hour thereafter until 12 M.
 - 12:20 P. M. Closing market quotations, Chicago Board of Trade.
 - 1:15 P. M. News and market reports.
 - 2:00 P. M. Baseball scores every half hour until end of games.
 - 3:15 P. M. News; market and stock reports.
 - 5:30 P. M. News; final market and financial reports; baseball scores.
 - 6:15 P. M. Children's Bedtime Story; baseball reports.
 - 7:00 P. M. Musical Program. (See Daily Program).
 - 8:00 P. M. News and Sports.
 - 8:05 P. M. Special Features (as announced by radiophone). News and baseball returns furnished by Chicago Evening American.
- The time mentioned in KYW program is Standard Central Time.
- For Daylight Saving Time add one hour to the schedule.

DETROIT NEWS STATION WWJ

360 Meters—Detroit, Michigan

Eastern Standard Time

Daily except Sunday

- 10:15 A. M. Weather report on 485 Meter wave length.
- 11:55 A. M. U. S. Naval Observatory time signals relayed by telegraph.
- 3:30 P. M. Market quotations on 485 Meter wave lengths.
- 4:05 P. M. Weather reports on 485 Meter wave length.
- 5:00 P. M. News Bulletin on sports and other events.
- 7:00 P. M. Bedtime Story; Latest news, bulletins, stock reports.
- 8:30 P. M. Program by selected artists.

Broadcasting Stations

The following stations are broadcasting on 360 meter wave length. Perhaps you have heard some of them.

- WOR—Bamberger, L. & Co., Newark N. J.
 WBU—City of Chicago, Ill.
 WRR—City of Dallas, Dallas, Texas.
 WCN—Clark University, Worcester, Mass.***
 WIL—Continental Electric Sup. Co., Washington, D. C.
 WHK—Cox, Warren R., Cleveland, Ohio.
 WLW—Crosley Mfg. Co., Cincinnati, Ohio
 WRK—Doron Bros., Electric Co., Hamilton, Ohio
 WHU—Duck Co., Wm. B., Toledo, Ohio.
 WJT—Electric Equipment Co., Erie, Pa.
 WPR—Federal Institute of Radio Teleg., Camden, N. J.
 WGR—Federal Tel. & Tel. Co., Buffalo, N. Y.****
 WCJ—Gilbert Co., A. C. New Haven, Conn.
 WIP—Gimbel Bros., Philadelphia, Pa.
 WOH—Hawfield Electric Co., Indianapolis, Ind.
 WGL—Howlett, Thos., F. J., Philadelphia, Pa.
 WGV—Interstate Electric Co., New Orleans, La.
 WSL—J. & M. Electric Co., Utica, N. Y.
 WOC—Karlowa Radio Co., Rock Island, Ill.*
 WIK—K. & L. Electric Co., McKeesport, Pa.
 WSZ—Marshall-Gerken Co., Toledo, Ohio*
 WBS—D. W. May, Inc., Newark, N. J.
 WOU—Metropolitan Utilities District, Omaha, Nebraska.*
 WCS—Missouri State Marketing Bureau, Jefferson City, Mo. (Markets)
 WGH—Montgomery Light & Water Power Co., Montgomery, Ala.*
 WKY—Oklahoma Radio Shop, Oklahoma City, Okla.***
 WOZ—Palladium Printing Co., Richmond, Ind.*
 WOK—Pine Bluff Co., The, Pine Bluff, Ark.
 WMH—Precision Equipment Co., Cincinnati, Ohio.*
 KSD—Pulitzer Print. Co., St. Louis, Mo. (St. Louis Post Dispatch).
 WDW—Radio Const. & Electric Co., Washington D. C.
 KIZ—Reynolds Radio Co., Denver, Colo.*
 WHN—Ridgewood Times Print. and Publ. Co., Ridgewood, N. Y.
 WFO—Rike-Kimler Co., Dayton, Ohio.*
 WHQ—Rochester Times-Union, Rochester, N. Y.*
 WJK—Service Radio Equipment Co., Toledo, Ohio.
 WDT—Ship Owners Radio Service, New York, N. Y.
 WBT—Southern Radio Co., Charlotte, N. C.
 WFI—Strawbridge & Clothier, Philadelphia, Pa.
 WRE—Tarrytown Radio Research Lab., Tarrytown, N. Y.
 WRL—Union College, Schenectady, N. Y.
 WLB—University of Minnesota, Minneapolis, Minn.*
 WHA—University of Wisconsin, Madison, Wis.*
 WOO—Wanamaker, John, Philadelphia, Pa.
 WOQ—Western Radio Co., Kansas City, Mo.*
 WHD—West Va. Univ., Morgantown, W. Va.
 WJH—White & Boyer, Washington, D. C.
 WPM—Thos. J. Williams, Inc., Washington, D. C.
 WNO—Wireless Telephone Co., Hudson County, Jersey City, N. J.
 KOA—Y. M. C. A., Denver, Colo.**
 *Designates also sending markets and weather on 485 wave lengths.
 **Only Weather.
 ***Also Weather.
 ****Also Market and Weather.

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KEEP pep in the battery for your vacuum tube receiving set by using the Rectigon Battery Charger.

The Rectigon is a small, inexpensive device that will charge your radio battery over night. It is entirely automatic in operation and needs no attention after it is started.

The Rectigon is portable—it can be placed wherever desired. The absence of oil or grease assures against damage to your floor or rugs.

It is as indispensable to your vacuum tube wireless equipment as the battery itself.

For details regarding the various sizes of this type of battery charger, write for our Folder F-4491, "Charging the Radio Battery at Home."



Westinghouse

Westinghouse Electric & Manufacturing Co.
East Pittsburgh, Pa.

Sales Offices in All Principal American Cities

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RADIO CHAPEL



Rev. Carlton C. Bransby, Pastor
Homerwood Avenue Presbyterian Church, Pittsburgh, Pa.

Reverend Carlton C. Bransby, who conducts Radio Chapel at KDKA June 11, is a native of England. Having served the Westinghouse interests in England for several years, he came to Pittsburgh in 1907 and accepted a position with the Westinghouse Electric and Mfg. Co.

Rev. Bransby attended the Western Theological Seminary at Pittsburgh and the Princeton Theological College at Princeton, New Jersey. He entered the ministry in 1910, and was ordained in 1912.

Patriotism by Radio

The Rev. George McGinnis, superintendent of the Northern District of the Anti-Saloon League of Illinois, will conduct Station KYW's chapel services on June 11.

Prior to entering the league work in January, 1914, the Rev. Mr. McGinnis held pastorates in Springfield, Chicago, Aurora, Joilet, Waukegan, and other places, and has been interested in temperance work for years. He has written hundreds of articles for the press on the dry warfare, which have appeared in papers all over the nation. Dr. McGinnis is a graduate of the divinity school of the University of Chicago.

In his sermon, "The Flag that Made the Song," the Rev. Mr. McGinnis will show that God has given to us a banner that it may be displayed because it represents truth among the nations. He will demonstrate that the red in the flag does not symbolize the red flag of anarchy, but the blood of patriots shed on many a battlefield for liberty; that the white is not emblematical of the white feather, for our soldiers have ever been among the world's bravest. It stands for loftiness of purpose and purity of ideals. The blue does not indicate blue blood, for we are a government of the people, by the people, and for the people, where the weakest and lowliest has a fair chance and a square deal. As the stars redeem the night from darkness so the stars in the flag will bring enlightenment and hope to all who sit in darkness.

The Farmers Friend

By H. A. Daake

The enclosed cartoon clearly illustrates that the average farmer need no longer remain isolated even though he may live fifty miles back in the hills.

THANKS - 'KDKA' - THANKS !!

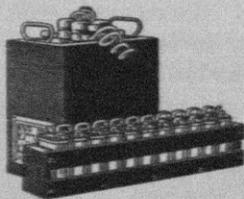


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Battery Service Station

Westinghouse Union Battery Co., Swissvale, Pa.



H. W. Arlin

one of the
Popular Announcers
at
Station KDKA
hears himself
as
others hear him



New York and Eastern District Schedules

(Continued from page 10)

WESTINGHOUSE STATION WBZ 360 Meters—Springfield, Mass. Eastern Standard Time

- 7:30 P. M. Uncle Wiggily Bedtime Story from the Springfield Union.
- 7:45 P. M. Prominent speaker, market and weather reports.
- 8:00 to 9:00 P. M. Program of music.
- 3:00 P. M. Sunday—Radio Chapel.
- 8:00 P. M. Sunday—Church Services.

GENERAL ELECTRIC COMPANY STATION WGI 360 Meters—Schenectady, N. Y. Daily Schedule

- 10:30 A. M. Early stock market quotations.
- 7:00 P. M. Produce and Stock Market quotations; Baseball results in National, American and International leagues; News Bulletins.
Tuesday, Thursday and Friday
- 7:45 P. M. Musical program by selected artists.

AMERICAN RADIO AND RESEARCH CORPORATION STATION WGI

360 Meters—Medford Hillside, Mass.

- 2:55 P. M. Music.
- 3:00 P. M. Current Events.
- 7:30 P. M. Baseball scores; late news.
- 7:45 P. M. Boston Police Reports.
- 8:00 P. M. Special Talks.
- 8:30 P. M. Program of Music.

ATLANTA JOURNAL STATION WSB

360 Meters—Atlanta, Georgia

- 6:30 P. M. Sport News and Bedtime Story.
- 8:00 P. M. Program of Music.

A MUCH TRAVELED VOICE

It is not often that a man's voice is returned by parcel post, but such was the unusual experience of H. W. Arlin, one of the announcers at KDKA, the East Pittsburgh radio telephone broadcasting station of the Westinghouse Electric & Manufacturing Company.

On April 5, Mr. Arlin was on duty at KDKA and in addition to announcing the musical program, gave out the news and talks on his schedule. The same evening W. E. Weaver, of Hespeler, Ontario, several hundred miles north of East Pittsburgh, Pa., was listening in on his radio receiver. Struck by a happy thought he wheeled a dictaphone in front of his loud speaker and registered part of the concert on the record.

This record he sent to the radio department with an invitation to listen to it and see how KDKA is received in Ontario. It is unnecessary to say that everybody connected with the radio division, at various times put the head-piece on their ears to hear the canned wireless.

Mr. Arlin was perhaps one of the most interested listeners, for in addition to hearing the music sent out April 5, his voice registered accurately and clearly each announcement.



Your Radio Can Look Like This!

Why not give your Westinghouse 2-stage R C set the housing it deserves? Place your set in a Lyradion Cabinet fitted for it—a beautiful finished cabinet which is a self contained unit—where all batteries are conveniently located and quickly accessible. These cabinets are fitted with the wonderful Seabrook-Lyradion loud speaker horn of special design, construction and fully covered by special patents—the only horn made which eliminates the metallic twang common to other loud speakers. Completely wired and furnished in mahogany, walnut and antique oak from \$100.00 up.

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MISHAWAKA, INDIANA

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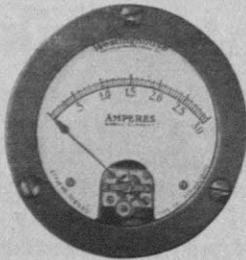
The other day Abe yelled at me, "Go get yer hook an' line; let's go down on the Kickapoo, the fish are bitin' fine." I sez, "All right, I'll be there just as soon as I can get my fishin' tackle ready and my good receivin' set." Then Abe said:

"What the dickens be yo goin' to do with that?" I sez, "Don't get excited er start talkin' through yer hat, yer goin' ter see some fishin' 'a la mode' right up ter date; cause things bin movin' mighty fast on this here farm of late." Abe ast me heaps of questions, but sez I, "You wait an' see the newest type of fishin' underneath some shady tree." I strung a wire between two trees while Abe was diggin' bait, connected up an' tuned her in—I didn't hafta wait; fer soon's I got those earmuffs on, I heard a band a playin' an' then a feller sang a song like our ole mule a brayin.' Abe said he wasn't int'rested an' started up the crick; I said I guessed I'd stay here where the grass was nice an'

thick. So, I stretched out there in the shade prepared to fish or lissen, an' anglin' after fish er news there wa'nt no chance a missin' either one; first come, first served—I couldn't ask fer more, a little speckled shiner or the latest baseball score. The first thing on my program was a song sung by some gal; then I pulled in a croppie to the tune of "You're My Pal." It wuzn't long till Abe come back an' set down side a me, "Say, let me have them phones a while, you go an' fish," sez he. Now Abe's a friend a mine, an' so I had to let him take the earmuffs for a while an' lissen, just ferr friendship's sake. I let him lissen quite a bit—it musta bin two pieces—an' then I sez, "Give me them phones er else our friendship ceases." Well, after arguin' a spell we said we'd arbitrate, for durin' th' discussion, Abe had upset the bait; an' se we took a phone apiece, we didn't fish no more, an' Abe an' me is friends again, same as we wuz before."

(Copyright, 1922, Westinghouse Electric & Manufacturing Co.)

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Should have its proper equipment of—

Westinghouse Measuring Instruments

These instruments possess, to an unusual degree, the qualities essential to satisfactory performance. The line is distinctive and harmonious. The important characteristics of readability, ruggedness, ease of maintenance and repair have been given careful consideration. These features are obtained by a refined design and precise construction resulting in exceptional accuracy over long periods of service.



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