

RADIO BROADCASTING NEWS

Vol. 2

DECEMBER 23, 1922

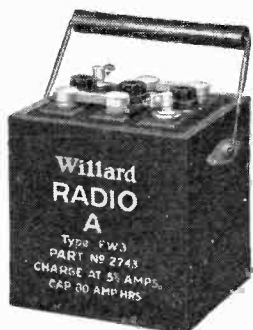
No. 30



This Is a Radio Christmas

Your Choice in a Willard

There's a Willard that will fit your need—whether for "A" or "B" circuit. Ask your dealer, or the nearest Willard Service Station.



The Willard Radio "B" Battery is a 24 volt rechargeable battery. Glass jars—Threaded Rubber Insulation—screwed-on covers.

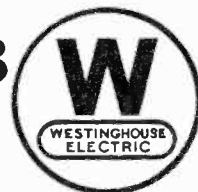


The Willard 6-volt All Rubber Radio "A" Battery has one-piece rubber case—Threaded Rubber Insulation—special Radio plates.



The new Willard lower priced radio "A" battery (Type FW), Willard quality plates—selected wood separators—tested rubber jars.

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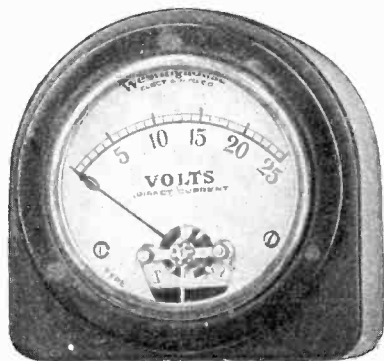
These portable instruments are particularly useful for temporary service, such as testing. They are also used where it is not convenient or desirable to mount instruments permanently on panels.

They have the same movements as our Types BX and CX panel-mounting instruments, and are enclosed in dust, moisture and acid-proof cases.

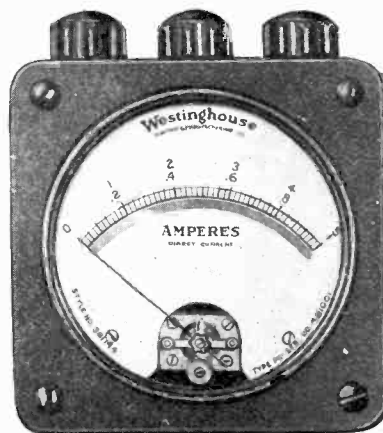
Folder 4471-A tells all about them

**WESTINGHOUSE ELECTRIC
& MANUFACTURING CO.**
Newark Works, Newark, N. J.

Member of Radio Section
Associated Manufacturers of Electrical Supplies.



Type PX-2 Voltmeter



Type PX-3 Ammeter

RADIO BROADCASTING NEWS

Published Weekly to increase interest and enjoyment in Radio Broadcasting

Address all communications to

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

SUBSCRIPTION ONE DOLLAR PER YEAR

FIVE CENTS PER COPY

Vol. 2

December 23, 1922

No. 30

Christmas Greetings From Radio Broadcasting News

WE wish you all the very finest and best enjoyment of this Christmas season.

Into many houses new radio sets will be operating for the first time and thousands of new listeners will hear the beautiful Christmas story literally coming from the air, so like the first Christmas morning when the heavenly host proclaimed that wonderful message of Peace and Good Will to All Men.

Every one of these new radio enthusiasts will be anxious to get the fullest measure of enjoyment from his new receiving set, and we suggest that the readers of Radio Broadcasting News tell these latest additions to the great Radio family of the service they may receive from this magazine, in locating stations and in keeping informed regarding the programs of the more important stations.

Educational Talks On Radio Broadcasting

IN order that the great listening public shall have the most complete knowledge of the problems involved in radio broadcasting, and of the conditions surrounding this new public service, Station KDKA, the pioneer of broadcasting, has arranged for a series of talks by men who are intimately acquainted with the radio situation.

The first of these messages was given December 13, by H. P. Davis, a vice president of the Westinghouse Electric and Mfg. Co. and better known to radio enthusiasts as the "father of radio broadcasting". In his talk on this occasion Mr. Davis stressed the value of knowing the thoughts of the public with respect to the service being received through radio broadcasting, and urged his

listeners to write to the broadcasting stations and give expression of their appreciations, their disappointments, and their suggestions for the improvement of the broadcasting service.

Only as the public speaks its mind can those in authority hope to meet the wishes of the people, and we desire to emphasize the thought that each person who is the fortunate possessor of a radio receiving set has an implied responsibility for helping to increase the value of this great service to mankind. Even those who only occasionally listen to radio concerts at the home of a friend, share a measure of this responsibility. It is a very small return for the pleasure they receive to send the broadcasting station a few lines in the nature of a report on how the entertainment measured up to their idea of what it should be.

But to those who accept this responsibility and write to the broadcasting stations, let us say that it is not always possible for the stations to make immediate acknowledgment of their letters, and the fact that a reply is not always received at once does not indicate that the letter is not of value, nor that it is not appreciated by those in charge of the station. Most of these men and women are working over-time trying to improve upon their past performances, and you may be sure they will be glad to get suggestions and criticisms.

We trust our readers will take the same attitude toward Radio Broadcasting News, whose primary purpose is to increase your enjoyment of radio broadcasting by furnishing a service supplementary to that given by the broadcasting stations. We shall be glad to receive suggestions from our readers at all times, and wherever possible we shall endeavor to incorporate them in future issues.

Sunday, December 24, 1922

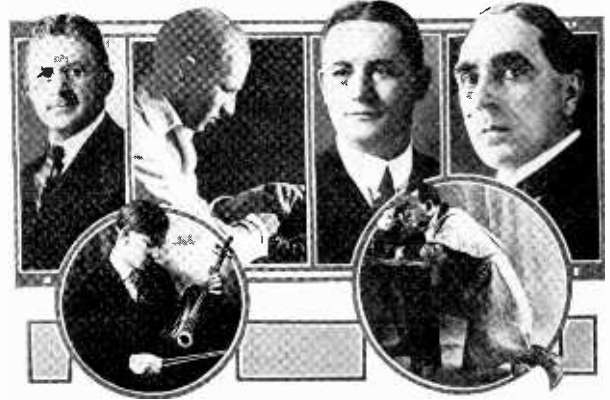
KDKA—360 Meters, Westinghouse, East Pgh., Pa.

- 10:45 A. M. Services of the East End Christian Church, Highland Ave., and Alder Street, Pittsburgh, Pa. Rev. John Ray Ewers, Pastor.
- 2:15 P. M. Children's Bible Story by Rev. W. A. Logan, Pastor of the Alpha Lutheran Church, Turtle Creek, Pa.
- 2:30 P. M. Handel's "Messiah", the great Christmas Oratorio, by artists from the studio of Anne Griffith, Pittsburgh, Pa., with KDKA Little Symphony Orchestra under the direction of Victor Saudek; and Earl Mitchell at the organ. The overture, pastoral symphony, and the accompaniments will be played by the orchestra. The soloists include Clara Huhn and Marie Crawford Pease, sopranos; Rose Leader Chislett and Marie Lanz St. Clair, contraltos; Edgar A. Sprague and Roy Strayer, tenors; Adam McNaughton and George Wahl, basses. The oratorio will be broadcast direct from station KDKA at East Pittsburgh, Pa.
- 4:45 P. M. Vesper Services of the Shadyside Presbyterian Church, Amberson Ave., near Fifth Ave., Pittsburgh, Pa., Rev. Hugh Thompson Kerr, Pastor.
- 6:15 P. M. Musical concert arranged especially for the children, by the KDKA Little Symphony Orchestra, Victor Saudek, director.
Program: "March of the Toys," (Babes in Toyland) Herbert; (a) "Jingle Bells," (b) Waltz "Sleeping Beauty," and (c) "The Dream Song," (Hansel and Gretel); Humperdinck; "Yule Tide Song," and "Holy Night."
- 7:45 P. M. Services of the Calvary Episcopal Church, Shady Ave., Pittsburgh, Pa. Rev. E. J. Van Etten, Rector.
- 11:30 P. M. Midnight program including Christmas Carols, Chimes, Story of the Birth of the Christ Child, cornet and instrumental selections from KDKA Little Symphony Orchestra, and a prayer. NOTE—This program will be broadcasted from the roof of a nine-story building (in the open) in order to get the best results from the chimes and carols.

WJZ—360 Meters, Radio Corporation, Westinghouse, Newark, N. J.

- 10:30 A. M. Musical program.
- 11:00 A. M. Morning services and sermon at Saint Thomas' Church, 5th Ave. Rev. Ernest M. Stires, D.D., Rector and Rev. Floyd S. Leach, Ph. D. assistant, officiating. T. Tertius Noble, M.A., Organist will direct the choir of 60 voices. Nine microphones are used to broadcast this service.
- 3:00 P. M. Harry E. Fosdick, Pastor of the First Presbyterian Church, New York City will conduct the Radio Chapel Services. Sacred Music Program.
- 4:00 P. M. Handel's "Messiah" by the choir of St. Thomas' Episcopal Church, of which T. Tertius Noble is director and choir master.

Prominent Men Recently at Station WJZ



Left to Right:—Top—Phillip Berolzheimer, bandmaster of Police Band; Vladimer Rosing, Russian Tenor; Ralph Julian MacBrayne, basso; Arthur Maude, lecturer; Nathan Radoff, violinist; Leonard Snyder, tenor.

- 6:30 P. M. "Readings and Records from the Bubble Books that Sing", by Ralph Mayhew, Harper & Bros.
- 7:00 P. M. "Is there a Santa Claus?" by Jacob Riis, Macmillan Co.
- 7:20 P. M. "Twas the Night Before Christmas", by a small boy.
- 7:30 P. M. "Peace" by Hugh Black; Union Theological Seminary, New York City.
- 7:45 P. M. Christmas carols, appropriate music by the Estey Organ, from the Estey Auditorium, New York City.
Program: "Offertoire on Two Christmas Hymns," Guilman; "Hark the Herald Angels Sing," Song of the Evening Star; Wagner; "It Came Upon a Midnight Clear," "In Moonlight," Kinder; "Adeste Fideles," "Evening Bells and Cradle Song," MacFarlane; "Holy Night," "Hallelujah Chorus," Handel.
- 8:45 P. M. The Annual Christmas Eve message from WJZ will be delivered by the Reverend George P. Dougherty, Rector of Christ Episcopal Church, Bloomfield and Glen Ridge, N. J.
- 9:05 P. M. Talk by a prominent author; Doubleday Page & Company.
- 9:45 P. M. Brick Presbyterian Church Quartet of New York City, through the courtesy of the Betty Tillotson Concert Bureau; Program of Christmas music.

KYW—400 Meters, Westinghouse, Chicago, Illinois

Central Standard Time

- 3:30 P. M. Christmas Carol service, the Rev. Gardner Alpheus MacWhorter, Priest-in-charge of Saint Edmund's Episcopal Church, 5831 Indiana Ave., Chicago, Ill., in charge of service. John Lucius Astley-Cock, M. A., Organist and Choirmaster of St. Edmund's Church, musical director and accompanist.
Miss Gloria Chandler, reader, of the Grace Hickox Studio, Fine Arts Bldg., Chicago.

December 23, 1922

KYW Sunday Program—Continued

The Christmas Carol Quartette composed of: Miss Ruth Williams, soprano; Miss Adele Brandt, contralto; Donald L. MacWhorter, tenor; Alfred T. Heath, baritone.

Order of Service

Hymn: "It Came upon the Mid-Night Clear," Richard S. Willis, 1850, Words by Edmund H. Sears, 1846, The Christmas Carol Quartette; Christmas Prayers.—Collects for the Nativity of our Lord, or the Birthday of Christ, commonly called CHRISTMAS DAY. The Rev. Gardner Alpheus MacWhorter. Hymn—"Angels from the Realms of Glory, Wing you Flight O'er all the Earth," Henry Smart, 1866, Words by James Montgomery, 1816, The Christmas Carol Quartette; The CHRISTMAS Gospel—The Second Chapter of The Gospel according to St. Luke, The Rev. Gardner Alpheus MacWhorter; "O Little Town of Bethlehem; How Still We See Thee Lie," Lewis H. Redner, 1868, Words by Phillips Brooks, 1868, The Christmas Carol Quartette; Reading by Miss Gloria Chandler; Hymn—"Hark! The Herald Angels Sing, Glory to the New Born King," Felix Mendelssohn, 1840, Words by Charles Wesley, 1739, Hymn—"O Come, All Ye Faithful, Joyful and Triumphant," J. F. Wade's Cantus Diversi 1751, Latin trans. Frederick Oakeley, 1841; Carol—"The First Nowell the Angel Did Say," Traditions Melody 1833; Carol—"We Three Kings of Orient Are," John Henry Hopkins, Jr., 1857; Carol—"Silent Night, Holy Night, All Is Well, All Is Bright," Franz Gruber, 1818—words by Joseph Mohr, 1818.

**WGY—400 Meters, General Electric Company,
Schenectady, N. Y.**

- 10:30 A. M. Morning service of a Schenectady church.
4:30 P. M. Vesper service, sermon by Rev. Peter Heller, pastor of Bellevue Methodist church, Schenectady, N. Y.
7:45 P. M. Special Christmas Eve program in charge of Knickerbocker Press, of Albany, N. Y. Talks by Santa Claus and readings by Mary Christmas



Lieut. Elmer Q. Oliphant, All-American Half-back, 1915-16-17, now Physical Director, Union College, Explained Football Rules from Station WGY

**Artists from Studio of
Madame Fitz Randolph Recently at KDKA**



Left to Right—Upper—Mrs J. J. Onnes, soprano; Marie L. Power; Marguerite M. Lang, soprano. Lower—Left—Emily Lanbie, soprano. Right—Ida May Ewing, contralto.

Monday, December 25, 1922

KDKA—360 Meters, Westinghouse, East Pgh., Pa.

May You All Have a Joyful Christmas

- 11:00 A. M. Services of the Calvary Episcopal Church, Shady Ave., Pittsburgh, Pa., Rev. E. J. Van Etten, Rector.
3:00 P. M. Concert by the Choir Boys of the Calvary Episcopal Church, under the direction of Harvey Gaul.
5:30 P. M. Play by play report of football game between University of West Virginia and Gwzaga University at San Diego California.
7:00 P. M. Concert by the Westinghouse Air Brake Band.
8:30 P. M. Concert by the American Legion Quartet, Post No. 347, New Kensington, Pa. Wilbert C. Black, first tenor; W. Hayde Stephens, second tenor; Geo. W. Brisbin, baritone, and Walter D. Patterson, bass; H. Russell Hoxworth, accompanist.

**WJZ—360 Meters, Radio Corporation, Westinghouse
Newark, N. J.**

Wishing You a Merry Christmas

- 11:00 A. M. Christmas Services and sermon at Saint Thomas' Church, Fifth Ave., New York. Rev. Ernest M. Stires, D.D. Rector and Rev. Floyd S. Leach, Ph. D. assistant, officiating. T. Tertius Noble, M. A., Organist will direct the choir of 60 voices.
1:15 P. M. Estey Organ Recital from the Estey Auditorium, New York City.
"Merry Wives of Windsor," Nicolai; "Christmas in Sicily," You; "March Triomphale," Lemmens; "Al-

Christmas Day Programs

December 23, 1922

WJZ Program—Continued

pine Maid's Sunday," Ole Bull; "Vorspiel from Hansel and Gretel," Humperdinck; "Troika from Seasons," Tchaikowsky; "Largo from New World Symphony," Dvorak; "Farandole," Bizet; "Hallelujah Chorus," Handel.

5:30 P. M. Concert by the St. John's Choristers from Paterson, N. J.

7:00 P. M. "The Christmas Joy of the Beautiful Pine", a copyrighted story by Thornton W. Burgess.

This beautiful story, which was written for a municipal Christmas Tree celebration in Springfield, Mass., is one of the best ever written by Mr. Burgess. It epitomizes the Christmas spirit. As a fireside story for the family, or for amateurs to amplify at the city, town, or village Christmas tree, it cannot be excelled. Thousands of children, as well as grownups, ought to hear it.

7:20 P. M. Stories from St. Nicholas Magazine.

8:30 P. M. Dance music by the Colonial Dance Orchestra of Ridgefield Park, N. J. Alternating with this Orchestra will be Milton J. Cross, tenor who will render an elaborate program. Mr. Cross is one of WJZ's announcers (AJN) and has a splendid voice.

9:55-10:00 P. M. Arlington Time Signals, weather forecast.

10:01 P. M. Continuation of program by Mr. Cross and dance music by the Colonial Dance Orchestra.

KQV—360 Meters, Doubleday-Hill Electric Co. Pittsburgh, Pa.

No Program will be broadcast from Station KQV, Pittsburgh. The week's programs to be resumed on Tuesday noon, with full week's schedule. With regrets extended to KQV listeners, but wishing them a "Merry Christmas" and hoping that the "new set" will bring in all the big stations and their fine Christmas Day programs.

KYW—400 Meters, Westinghouse, Chicago, Illinois Central Standard Time

Christmas Greetings To All

8:30 P. M. Program Courtesy of Lyon & Healy Concert and Artists Department, to be announced by Radiophone.

WGY—400 Meters, General Electric Company, Schenectady, N. Y.

Wishing You Yuletide Cheer

7:45 P. M. Musical program as follows:

Instrumental selection—"Around the Christmas Tree," Tobani, WGY Orchestra; Reading, Something of interest to all (Copyrighted stories from the Youth's Companion); Boy Soprano solo, "Come Unto Me," from "The Messiah," Handel, Master Walter Sickles; Instrumental selection, Christmas Carols, (a) "Holy Night," German Folk Song, (b) "O Little Town of Bethlehem," Traditional Melody, WGY Orchestra; Tenor solo, "The Birthday of a King," Neidlinger, Ramon Berini; Address, "Christmas," Rev. Clayton J. Potter; Baritone solo with orchestra, Christmas Carol, "God Rest You, Merry Gentlemen," Traditional Melody, Walter Treveres, with WGY Orchestra; Soprano solo, "Lullaby, Thou Little Tiny Child," from "Coventry Mysteries," Traditional Melody, Master Walter Sickles;

Instrumental selection, "Pastoral Symphony," from "The Messiah," for organ, piano, violin and cello, Handel, WGY Orchestra; Tenor solo, "Cantique de Noel," Adams, Ramon Berini, with violin obligato by Edward Rice; Violin solo, "A Christmas Air," Bach, Edward Rice, violinist, O. G. Yettru, accompanist; Boy Soprano solo, "Christmas Carols, (a) "Good Christian Men, Rejoice," Old German" (b) "Sleep, My Saviour, Sleep," Bohemian Carol, Master Walter Sickles; Baritone solo, with orchestra, Christmas Carols, (a) "The First Noel," Traditional Melody, (b) "A Virgin Unspotted," Traditional Melody, Walter Treveres, with WGY Orchestra; Instrumental selection, Group of Christmas Melodies including, "Hark, the Herald Angels Sing," "Draw Nigh Immanuel," and "We Three Kings of the Orient Are," WGY Orchestra.



OUR BOOTH AT THE 1922 ELECTRICAL EXPOSITION

Radio Dealers who attended the 1922 Electrical Exposition at Motor Square Gardens, Pittsburgh, Pa., were greatly impressed by the Ludwig Hommel & Company booth. It was a dealers' exhibit throughout, in accordance with the Hommel policy of advertising for the dealer. A radio jobber who plays square with his dealers. All the radio marketed by our company is sold through the dealer, for Ludwig Hommel & Company is a strictly wholesale house.

Send your next order to Ludwig Hommel & Co.
and learn what real jobber's service to dealers is.

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Radiola Sr.—insures reception of the Big Broadcasting Stations Everywhere.

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Radiola Sr. Amplifier Price, \$75.00

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"Make This a Radiola Christmas"

DOUBLEDAY-HILL ELECTRIC CO.

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PITTSBURGH, PA.

Mention Radio Broadcasting News when writing to Advertisers

December 23, 1922

Tuesday, December 26, 1922

KDKA—360 Meters, Westinghouse, East Pgh., Pa.

- 7:00 P. M. News. Letter from FARM AND HOME. "Three Wise Men of the East", by Rev. S. M. Jordan, President, Teheran College, Persia. Mr. Jordan is a Presbyterian missionary just returned from Persia. He was at one time a Lafayette College football star.
- 7:15 P. M. Weekly Survey of Business Conditions. Public Health Bulletin.
- 7:30 P. M. Bed Time Story for the Children.
- 7:45 P. M. Report of the New York Stock Exchange.
- 8:00 P. M. A talk on Woman's Fashions, prepared by the Joseph Horne Company, Pittsburgh, Pa. The Last Group of Radio Articles No. 36. Program: "Winter Sports Clothes and Accessories", VOGUE; "How to Construct a Wardrobe", VANITY FAIR; "Furnishing with Directoire Pieces", HOUSE AND GARDEN. "Renewing the Finish of Old Furniture" prepared by The Joseph Horne Company, Pittsburgh, Pa. "The Process of Steel Making", John A. Oartel, Chief of Safety Bureau, Carnegie Steel Company, Pittsburgh, Pa.
- 8:30 P. M. Concert by Ella S. Bassett and Marion Bassett piano; Ruth Swank, soprano; Mat-

thew Ekey, violin; Mrs. W. H. Yost, reader; and the American Glee Club from the Royal Lyceum Bureau, Syracuse, N. Y. Anthony Dvorak, bass; Dow Mooney, baritone; Lancelot Bufton, second tenor; Cranfill Fowler, first tenor.

Program: Piano duets, "Lustpiel Overture, Op. 73," Keler-Bela; "Sunflower Dance, Op. 11," McClymont; "Merry Wives of Windsor," Violin solos, "Wedding of the Winds," and "Apple Blossoms," Kathleen Roberts; and soprano solos, "Love's Shadows," "I Passed by your Window," Brahe, Readings, "The Gospel of Labor," Henry Van Dyke; "The Christmas Wish," by Henry Van Dyke. Program of instrumental and vocal numbers by the American Glee Club to be announced by radiophone.

WJZ—360 Meters, Radio Corporation, Westinghouse Newark, N. J.

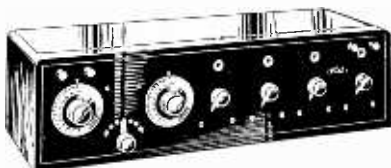
- 1:45 P. M. Concert by Felix Cassone, violinist, Mrs. Belle, accompanist of Newark, N. J. Program: "Adoration", Borrouski; "Concerto in A Minor", Accoly; "Meditation", Raff, "Meditation from Thais", Massenet.
- 5:30 P. M. Closing prices on stocks, bonds, grains, coffee and sugar.
- 5:45 P. M. Resumé of Sporting events, etc.
- 7:00 P. M. Musical Stories" by Mary Plowden Kernan, lecturer for the New York City Board of Education.
- 7:30 P. M. Concert by Arthur Gordon Hudson, baritone.
- 7:50 P. M. "The Meaning of Service", by W. J. Reeves, General Secretary of the Savings Banks Association of the State of New York.
- 8:00 P. M. Dance Music by the Club Royal Dance Orchestra of Jersey City, formerly known as the Eddie Lent Orchestra, Ed. Lent piano; Harold Shick, saxophone; Chas. Hara, violin; Edwin McDowell, cornet; and Chas. H. Fraleigh, drums.

Program: "Hot Lips," "Tell Her at Twilight," "Just Because You're You," "Nobody Lied," "Tomorrow," "Coal Black Mammy," "Love sends a little Gift of Roses," "Georgette," Cornet solo: E. McDowell and violin solo by H. Young.

- 8:30 P. M. "Broadcasting Broadway", by Bertha Brainard.
- 8:45 P. M. Continuation of program by Club Royal Dance Orchestra of Jersey City.
- 9:00 P. M. Concert by Robert Armour, tenor; Betty Tillotson Concert Bureau.
- 9:15 P. M. Concert by Arthur Wilde, an American cellist who has been a member of the New York Symphony Orchestra under Walter Damrosch for six years and soloist at the Fifth Avenue Brick Presbyterian Church, and is now touring on the concert stage, Dan Dickinson, accompanist.
- Program: "Gypsy Serenade," Valdez; "Canto Amoro," Sammartini-Elman; "Allegro Appassionato," Saint-Saens; "Serenade," Haydn; "Nocturne," Chopin; "Allegro from Suite in A Major," Boccherini; "Ave Maria," Schubert; "Tarantelle," Popper.
- 9:30 P. M. Program by Robert Armour, tenor.

\$55

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Model X



A four tube set with one stage of
Tuned Radio Frequency Amplification.

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CROSLEY RECEIVER MODEL X. This four tube set is the most popular on the market to-day. It consists of one stage of Tuner Radio Frequency Amplification, Audion Detector and two stages of Audio Frequency Amplification. The Crosley Model X is built on scientific principles. Especially is the Tuned Radio Frequency Amplification feature popular. It not only serves to magnify the incoming waves before they reach the detector tube, but eliminates static and interference to a wonderful degree. With this set, listeners in Florida have heard broadcasting from Winnipeg, Seattle and Honolulu. Without phones, batteries or tubes, only \$55.00.

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Crosley Manufacturing Company

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CINCINNATI, OHIO

WJZ Program—Continued

9:55-10:00 P. M. Arlington Time Signals, weather forecast.
10:01 P. M. Program by Arthur Wilde and Robert Armour.

**KYW—400 Meters, Westinghouse, Chicago, Illinois
Central Standard Time**

8:30 P. M. Musical Program including Fontella Jewett—soprano. Program will be announced by Radiophone.

**WGY—400 Meters, General Electric Company,
Schenectady, N. Y.**

11:55 A. M. U. S. Naval Observatory time signals.
12:30 P. M. Noon stock market quotations.
12:45 P. M. Weather report on 485 meters wavelength.
2:00 P. M. Music and subjects of interest to women.
6:00 P. M. Produce and stock market quotations; news bulletins.
7:45 P. M. Musical program and Radio Comedy—“Nothing But The Truth” by James Montgomery.

The Cast

Bob Bennett Edward H. Smith
His senior partner Cortland Hopkins
A curb broker James S. B. Mullarkey
A Bishop Frank Oliver
Bob's friend Henry Miller
Bob's fiancée Viola Karwowska
Her mother Ida Myreck
Her girl friend Ruth Edmonds
Two chorus girls Ruth Schilling
Margaret V. Smith

Instrumental selection, “Coquette,” Arensky, WGY Orchestra; “Nothing But the Truth,” 1st. Episode—Wherein a wager is made and it looks as if Bob were going to make a whole lot of easy money; Instrumental selection, “Pulcinello,” Alletter, WGY Orchestra; “Nothing But the Truth,” 2nd Episode—In which it is proven that the truth is more than painful many times; Instrumental selection, “Premier Amour,” Benoit, WGY Orchestra; “Nothing But the Truth,” 3rd Episode—It is not always as easy to tell the truth as it would seem. Bob wishes he had never made the wager and anxiously awaits the expiration of the twenty-four hours; Instrumental selection, “Serenade,” Ern, WGY Orchestra.

WDAP—broadcasting station of the Midwest Radio Central Inc., Chicago, Ill. give a Sunday night concert from 8:30 to 10:30 P. M.

Daily, except Saturday and Sunday foreign exchange reports are broadcasted at 9:45 A. M., 11:45 A. M., 1:45 P. M., 3:15 P. M. At 3:17 P. M. the closing Chicago stocks. On Saturday, foreign exchange at 9:45, 10:45, 11:45 A. M. and 12:45 P. M. Closing Chicago stocks at 12:17 P. M.

TEN CENTS Brings Burgess U. S. Radio Map (Including Canada)

Know where your calls come from. Tack this big Burgess Map right above your set, and see at a glance. Every radio district and all time divisions marked in red; state divisions in black. Broadcasting Stations, Army, Navy and Commercial Stations, and a down-to-the-minute alphabetical list of call numbers.

This is a real map—28 by 36 inches on bond paper, made to fold conveniently for the pocket. 6000 name places. Latest U. S. Government Radio data. Usually priced at 50 cents. We'll mail one to you on receipt of 10 cents to cover postage and packing—if you'll send us your radio dealer's name. We're doing this because we want every radio enthusiast to know about Burgess “B” Batteries. Don't forget to send your dealer's name. Just address:

Burgess Battery Company
29 S. Brearly Street Madison, Wisconsin

BURGESS “B” BATTERIES

“Ask Any Radio Engineer”



December 23, 1922

Wednesday, December 27, 1922

KDKA—360 Meters, Westinghouse, East Pgh., Pa.

- 6:15 P. M. Special Dinner Concert by KDKA Little Symphony Orchestra, Victor Saudek, Director.
- 7:15 P. M. News. Letter from FARM AND HOME.
- 7:30 P. M. Bed Time Story for the children.
- 7:45 P. M. Summary of the Iron and Steel Industries, prepared by The Iron Age.
Report of the New York Stock Exchange.
- 8:00 P. M. Continuing the series of talks on Radio began last week, M. Frank Conrad, Radio Engineer of the Westinghouse Company, will talk on THE PROPER ANTENNA FOR TUNING.
"What is Hockey", an interesting talk on this, one of the chief sports of winter, by Ray D. Schooley, Secretary of the National Hockey Association.
- 8:30 P. M. Concert by James E. Bell, tenor; Brinley Jones, baritone; and KDKA Little Symphony Orchestra, under the direction of Victor Saudek. Mrs. James E. Bell, accompanist.

Program: Tenor solos, "Heart, Have You Heard the News," Harling; "Love, if Nothing Else," Harling; "Boat Song," Harriet Ware; "The Island," Baritone solos, "A Son of the Desert Am I," Phillips; "Until," Sanderson; "Friend O' Mine," Sanderson. Tenor and baritone duet "The Battle Eve," Sanderson. Selections by the orchestra, "Fairly Lake," Auber; Excerpts from "The Lady in Ermine," Romberg; two characteristic dances, "Danse Arabe," and "Danse De La Fee Dragee," from "The Nutcracker Suite," Tchaikowsky; Fantasy from "Lucia de Lammermoor," closing with the famous "Sextette," Donizetti; Concert waltz, "Joyous Vienna," Komzak; Scenes from "Miss Springtime," Kahman, and Gems of Stephen Foster.

WJZ—360 Meters, Radio Corporation, Westinghouse Newark, N. J.

- 2:00 P. M. Program arranged by Ellen Marie Jensen, elocutionist, New York City.
- 5:30 P. M. Closing prices on stocks, bonds, grains, coffee and sugar.
- 5:45 P. M. Resumé of sporting events, etc.
- 5:55 P. M. "Iron and Steel Review", by the Iron Age.
- 6:00 P. M. Musical program.
- 7:00 P. M. "Animal Stories" by Florence Smith Vincent, author of the "Peter's Adventures" Book, and Editor of the Woman's Page of the New York Evening Telegram.
- 9:00 P. M. "The Business Outlook", by Dr. Warren Hickernall, Alexander Hamilton Institute of New York.
- 9:15 P. M. Concert by the Amphion Orchestra of Newark composed of Johnson Jones, pianist; Thomas R. Jones, banjoist, Paul Schnell, saxophonist; Albert Darby, cornetist; Frank Darby, trombone; Raymond Cadby, banjo mandolin. Program of popular music; Thomas Jones and Raymond Cadby will render a banjo duet.
- 9:40 P. M. "Weekly Book Reviews", by Grace Isabel Collbron.

- 9:55-10:00 P. M. Arlington Time Signals, weather forecast.
- 10:01 P. M. Continuation of program by the Amphion Orchestra of Newark.

KQV—360 Meters, Doubleday-Hill Electric Co., Pittsburgh, Pa.

- 10:00 P. M. Program will be given by Miss Margaret Buckey, soprano and Ken Hudson ukulele and steel guitarist, both of Pittsburgh, who will present a holiday program of the most popular sort. Miss Buckey excels in the songs being heard on Broadway and will sing several new ones and Mr. Hudson will play guitar accompaniment to some of them. The Hawaiian songs, native to his own country to also be a part of the program. Interspersed a number of new dance novelties will be broadcast. A program with a flavor of the holiday season. Ralph Skiles, guitarist will furnish some of the ensemble for both instrumental and vocal numbers.

Program: Soprano Songs: "Three o'clock in the Morning," with duet guitar accompaniment; "A Kiss in the Dark," by Herbert; "A Little Street in Gay Paree," from "The Spice of 1922"; "A Corner up in Heaven," by Berlin, "Home, Sweet, Home," with string accompaniment. Instrumental numbers: "Kalima" Waltz, for two guitars; "Hawaiian Hula Medley, two guitars; Hawaiian Song, with ukulele. (selected); "Kanaha Kiki, ukulele solo.

KYW—400 Meters, Westinghouse, Chicago, Illinois Central Standard Time

- 8:30 P. M. Music program by Winifred S. McGaw, contralto; Madeline McGaw, accompanist; Eva Ray, soprano; Alice L. Sturges, accompanist; I. R. Sturges, baritone; Clarence Gihfried, violinist director; The Orientale Syncopaters: Phil Beck, saxophone; Henry Benz, piano; Ernie Weiss, drums; Earl Freeze, cornet.

Program: (a) "Eleanor," (b) "Homesick," Oriental Syncopaters; (a) "Thank God For a Garden," Del Riego, (b) "Break O' Day," Sanderson, Eva Ray; (a) "I Wish I Knew," (b) "The Trail To Long Ago," Oriental Syncopaters; (a) "The Pilot," Protheroe, (b) "Three for Jack," Squire, I. R. Sturges; (a) "Love Days," (b) "Deedle Deedle Dum," Oriental Syncopaters; (a) "Underneath the Trees," Newton, (b) "Hark, Hark My Soul," Shelley, Eva Ray and Winifred S. McGaw; (a) "When The Leaves Come Tumbling Down," (b) "Early in The Morning," Oriental Syncopaters; (a) "Corisande," Sanderson, (b) "Pickaninny Snuggle Song," Smith, I. R. Sturges; (a) "The Bitterness of Love," Dunn, (b) "In Praise of Islay," Kreisler, Winifred S. McGaw; (a) "Where The Volga Flows," (b) "Soothing," Oriental Syncopaters.

WGY—400 Meters, General Electric Company, Schenectady, N. Y.

- 11:55 A. M. U. S. Naval Observatory time signals.
- 12:30 P. M. Noon stock market quotations.
- 12:45 P. M. Weather report on 485 meter wavelength.
- 2:00 P. M. Music and subjects of interest to women.
- 6:00 P. M. Produce and stock market quotations; news bulletins.

Thursday, December 28, 1922

KDKA—360 Meters, Westinghouse, East Pgh., Pa.

- 7:00 P. M. News. U. S. Public Health Bulletin.
- 7:30 P. M. Bed Time Story for the Children.
- 7:45 P. M. Report of the New York Stock Exchange.
- 8:00 P. M. Practical Hints for Modern Home-furnishing, prepared by The Joseph Horne Company, Pittsburgh, Pa.

Timely Topics of interest to the Farmer, prepared by THE NATIONAL STOCKMAN AND FARMER, Pittsburgh, Pa.

- 8:30 P. M. Concert by Adele Eggers Furniss, soprano; Fred Feigenbaum, violin; Grace Schaney, accompanist; Flora Steiner, pianist and accompanist; J. Alvin Little, baritone.

Program: Soprano solos with violin obligato, "For All Eternity," Mascheroni; "Fiddle and I," Goodeve. Soprano solos, "I Think," d'Hardelot; "Snow Flakes," Cowen; "He Was a Prince," Lynes; "The Little Brown Owl," Sanderson. Violin solos, "The Blue Bells of Scotland," with variations, Henry Farmer; and others to be selected. Baritone solos, "Duna," McGill; "Sylvia," and "To You," Speaks; "The Highwayman's Song," Woodman; "The Sweetest Flower that Blows," Howley. Piano solos, "Meditation," Gabrilowitch; and "Ballade Op. 10 No. 1," Brahms.

WJZ—360 Meters, Radio Corporation, Westinghouse
Newark, N. J.

- 5:30 P. M. Closing prices on stocks, bonds, grain, coffee and sugar.
- 5:45 P. M. Resumé of Sporting events, etc.
- 6:00 P. M. Musical program.
- 7:00 P. M. "Jack Rabbit Stories" by David Cory, New York Evening Mail.
- 8:30 P. M. Concert by the Metro String Quartet of New York City.
- 9:15 P. M. "Bank Loans and Discounts" by R. Keisler, President of the New Jersey Bankers Association, Newark.
- 9:30 P. M. Ampico Series of Distinguished Artists' Concerts, furnished by courtesy of William Knabe and Company.

Internationally known pianists will participate in this series, together with equally famous violinists, and Metropolitan Opera House vocalists. Though it is as yet impossible to give the full list of those soloists who will definitely perform, attention can already be called to a partial one which includes such names as Leo Ornstein, Erno Dohnanyi, Arthur Schnabel, Mieczslaw Munz, Hans Barth, Henry Souvaine, Phillip Gordon, John Duke, Alexander Gunn and Milton Suskind. Daisy Jean, well-known Belgian cellist, is also definitely promised. Others of equal importance in the music world will be added to this list, contingent upon the dates of their arrival in America.

- 9:55-10:00 P. M. Arlington Time Signals, weather forecast.
- 10:01 P. M. Continuation of program by the Ampico artists.

KYW—400 Meters, Westinghouse, Chicago, Illinois
Central Standard Time

- 8:30 P. M. Program Courtesy of Lyon & Healy Concert and Artists Department, to be announced by radiophone.

WGY—400 Meters, General Electric Company,
Schenectady, N. Y.

- 11:55 A. M. U. S. Naval Observatory time signals.
- 12:30 P. M. Noon stock market quotations.
- 12:45 P. M. Weather report on 485 meters wavelength.
- 2:00 P. M. Music and subjects of interest to women.
- 6:00 P. M. Produce and stock market quotations; news bulletins.
- 7:45 P. M. Musical program as follows:—

Program: Trio selections, (a) "Andante Sostenuto," from "Il Traviatore," Verdi, (b) "A Plantation Melody," Bland, American Hawaiian Trio; Mrs. Ernest Caswell, harp guitar; Mr. Ernest Caswell, Hawaiian guitar; Mr. Walter Elliott, violin; Soprano solo, "Serenity," Salter, Irene McCreedy; Piano solo, "The Spinning Song," from the "Flying Dutchman," Wagner-Liszt, Edith Cook Smith; Address, "The Electron," B. R. Cummings, Radio Engineer; Violin solo, "Liebestraume," Liszt-Kreisler, Walter Elliott, Elizabeth Caswell, accompanist; Soprano solo, "Singing to You," Kerr, Irene McCreedy; Trio selection, Medley of old songs by American Hawaiian Trio; Violin solo, "Lamento," Gabrielle-Marie, Walter Elliott; Piano solo, "Andante Finale," from "Lucia de Lammermoor," (for left hand alone) Leschetizy, Edith Cook Smith; Violin solo, "Adagio Pathetique," Goddard, Walter Elliott; Soprano solo, "My Little Sunflower," Vanderpol, Irene McCreedy; Piano solo, "Valse Brillante," (E Minor), Chopin, Edith Cook Smith; Trio selection, "Medley of Waltzes," Pierne, American Hawaiian Trio.

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December 23, 1922

Friday, December 29, 1922

KDKA—360 Meters, Westinghouse, East Pgh., Pa.

- 6:15 P. M. Special Dinner Concert by KDKA Little Symphony Orchestra Victor Saudek, Director. Program will be announced in the daily newspapers.
- 7:15 P. M. News. Letter from FARM AND HOME.
- 7:30 P. M. Bed Time Story for the Children.
- 7:45 P. M. Report of the New York Stock Exchange. Report on World Trade Conditions, prepared by The Trade and Industrial Bureau of the Pittsburgh Chamber of Commerce.
- 8:00 P. M. "Watching the Old Year Out with the Poets", presented by Marjory Stewart.
- I. "The Death of the Old Year," from "In Memoriam," Alfred Lord Tennyson; II. "The Isle of Long Ago," Bayard Taylor; III. "My Own Shall Come to Me," John Burroughs; IV. "The Closing Year," George D. Prentice; V. "The New Year," Margaret Sangster.
- Weekly Talk on Etiquette by Mrs. Chester B. Story. The subject this week is "Phrases Avoided in Good Society".
- 8:30 P. M. Handel's "Messiah" by the Mendelssohn Choir, will be broadcasted from Carnegie Music Hall, Pittsburgh, Pa.

WJZ—360 Meters, Radio Corporation, Westinghouse Newark, N. J.

- 5:30 P. M. Closing prices on stocks, bonds, grain, coffee and sugar.
- 5:35 P. M. "A Story from The Youth's Companion", copyrighted stories; "At the End of the Winch Rope", an adventure outside of a castle in Normandy. Story by Joseph E. Olson.
- 5:45 P. M. Conditions of leading industries by R. D. Wychoff, Editor of the Magazine of Wall Street.
- 5:55 P. M. Resumé of Sporting Events, etc.
- 6:00 P. M. Musical program.
- 7:00 P. M. "Bedtime Stories" by Thornton Burgess.
- 7:15 P. M. "Pekinese", by Frank F. Dole, noted authority.
- 7:30 P. M. Concert by Ethel Mae Nolds, Lyric Coloratura soprano of New York City formerly of Denver, Colo.

Miss Nolds is soloist at the Church of St. Mary the Virgin, New York City, and has sung successfully with the New York Oratorio Society, Ellis Island, New York Harbor, Institute for the Blind, Brooklyn and numerous other engagements.

Program: "Vissi D'Arte, vissi D'Amore," Puccini; "Songs My Mother Taught Me," Dvorak; "Winds of the Night," Watts; "Joy," Watts; "Danny Boy," Weatherly; "Little Gray Dove," Saar, "Just for Today," Densmore.

- 8:00 P. M. Concert by Tunde Brajjer, a young Hungarian pianist, who met with considerable success throughout Europe and was well received by New York music lovers.

Her teacher was the famous piano pedagogue, Moritz Rosenthal of Vienna, who is well known throughout the musical world. Out of a class of 250 graduates of the Conservatory of Vienna, Mr. Rosenthal selected only two pupils, Miss Brajjer being one of them. Miss Brajjer

is a talented linguist, speaking five languages. Miss Brajjer will play "Twelfth Rhapsody," by Liszt and one or two small Chopin pieces.

- 8:15 P. M. Concert by Mary V. Potter, contralto, New York City.
- 8:20 P. M. Continuation of program by Tunde Brajjer, pianist.
- 8:30 P. M. Literary evening conducted by the Editorial staffs of the Outlook, Scientific American and Harper & Bros.
- 8:40 P. M. Joint Recital by Kathleen Pearson, soprano of Bloomfield, N. J. and Edouard Grobe, tenor of Harrison, N. J.
- Program: Soprano solos: "Friend O' Mine," Sander-son; "A Bowl of Roses," Clarke; "Wiegenlied," Brahms; "I Love The Moon," Rubens; "I passed by Your Window," Brahe. Tenor solos: "Thy Beaming Eyes," MacDowell; "Ouvre tes yeux bleus," Massenet; "She Stoops to Conquer," Roeckel; "Still wie die Nacht," Bohm; "Vale," Russell.
- 8:50 P. M. Continuation of program by "Literary Evening".
- 9:15 P. M. Continuation of program by Kathleen Pearson, soprano and Edouard Grobe, tenor.
- 9:55-10:00 P. M. Arlington time signals, weather forecast.
- 10:01 P. M. Continuation of program by Miss Pearson and Mr. Grobe.

KQV—360 Meter, Doubleday-Hill Electric Co., Pittsburgh, Pa.

As a new and progressive feature of Station KQV, programs for the remainder of the Radio season, a Program for Junior Radio Listeners, both Boys and Girls, will be broadcast each Friday afternoon at 4:30. Serial stories, some music, a good one-act play, occasionally, and each week an eight-minute talk to be given by a Radio Broadcasting Station Operator, on "How to Tune in; what not to do for accurate Radio Reception", will be of interest and much help to the Juniors. The first program will be broadcast this afternoon.

10:00 P.M. Program of Plantation Melodies and Negro Spirituals, presented in solo, duet and quartet. The artists will be; Mary Ablett Brennan, contralto, William Brennan, tenor, Margaret Buckey, soprano and Alan B. Davis, baritone, under whose direction the program has been arranged. Mr. Davis is, without doubt, one of the best interpreters of the Negro Spiritual in the Pittsburgh field, having made special study of them with Oscar Sanger, of New York City, whose reputation in that field of native songs is without question. Neglected as they are, even by the Negro race, at the present time, the old plantation songs will ever be as nearly the original folk-song of the American nation as can be found. Their charm is universal and every music-lover hails a program of this nature with keen anticipation.

Program Numbers: Spirituals, to be sung by Mr. Davis, in solo form: "Bye and Bye," by Burleigh; "Go Down Moses," and "My Way is Cloudy," by Burleigh; "Git on Board Chillen," and "De Ol' Ark am a Moverin'," by Guyon.

Solo numbers by Mrs. Brennan: "Hoodoo, doo-doo Man," traditional; "Greatest Miracle of All," and "Little Pickaninny Kid," by Amy Strickland; Duet;

KQV Program—Continued

Miss Buckley and Mrs. Brennan, "Mammy's Sleepy Time Song." Tenor solo, William Brennan, "Adam Nevah Had No Mammy," traditional.

Quartets: "Standin' in the Need of Prayer;" "Lord, I Want to be a Christian;" "Steal Away;" "Swing Low;" "Mary and Martha;" "Peter, Go Ring dem Bells;" "Dem Golden Slippers;" "Keep in de Middle ob de Road."

**KYW—400 Meters, Westinghouse, Chicago, Illinois
Central Standard Time**

8:30 P. M. Concert by Elks Prize Band, Chicago Lodge No. 4. Benjamin E. Sincere, manager; Albert Cook, director; William J. Sinek, exalted ruler.

Program: Military March, "Grandioso," Miller; Overture, "If I Were King," Adam; Cornet Duet, "Short and Sweet," Short; Messrs. Cook and Strait; Russian Fantasia, "Rozicka," Roberts; Polish Dance Number One, Scharwenka; Piccolo Solo, "Thro the Air," Damm; "Prelude in G Minor," Rachmaninoff; Finale, "National Airs," Keyes.

**WGY—400 Meters, General Electric Company,
Schenectady, N. Y.**

11:55 A. M. U. S. Naval Observatory time signals.
12:30 P. M. Noon stock market quotations.
12:45 P. M. Weather report on 485 meters wavelength.

2:00 P. M. Music and subjects of interest to women.

6:00 P. M. Produce and stock market quotations; news bulletins.

6:30 P. M. Health talk.

7:45 P. M. Musical program:—

Program: Fox Trot, "Windy City Blues," Ladue, Premier Orchestra; James Perry, violin; Francis Galaszewski, violin and director; Leo Terkowski, saxophone; Anthony Giannetti, drums and traps; Earl Edwards, piano. Fox Trot, "Rock Me In My Swanee Cradle," Squires, Orchestra; Fox Trot, "The Indigoes," E. Pease, Orchestra; Baritone solo, "Bells of St. Marys," Adams, Arthur Gunn; Waltz, "Moon River," David, Premier Orchestra; Fox Trot, "Sweet Lady," Crumit, Orchestra; Fox Trot, "Suez," DeRose, Orchestra; Fox Trot, "Sweet Indiana," Cramer, Orchestra; Baritone solo, "Old Fashioned Girl," Jolson, Arthur Gunn; Waltz, "Kentucky Moonlight," Van Alstyne, Premier Orchestra; Fox Trot, "Tomorrow Morning," Squires, Orchestra; Fox Trot, "The French Trot," Davis, Orchestra; Fox Trot, "Shakes," Jacques, Orchestra; Baritone solo, "When You Look in the Heart of a Rose," Methven, Arthur Gunn; Fox Trot, "Do It Once More," Jameson, Premier Orchestra.

10:30 P. M. Late Musical Program:

Late Program at 10:30 P. M., as follows:

Instrumental selection, "Cuban Dance," Cervantes, WGY Orchestra; Tenor solos, (a) "There Cried a Bird," Sinding, (b) "I Know a Hill," Whelby, Thomas Hopkins, Jr., Violin solo, "Andante Movement," from G Minor Sonata, Grieg, Edward A. Rice; Piano solo, "Air de Ballet," Korestchenko, Ollie G. Yettru; Tenor solo, "Where'er Ye Walk," from the opera "Semele," Handel, Thomas Hopkins, Jr., Violin and Viola Duet, unaccompanied, "A Sixteenth Century Air," Pleyl, Edward Rice, violin, Leo Kliwen, viola; Cello solo, "Walter's Prize Song," (Die Meistersinger), Wagner, Ernest Burleigh; Piano solo, "Nocturne in E Minor," Chopin, Ollie G. Yettru; Tenor solo, "Alone I Wander," Harriet Ware, Thomas Hopkins, Jr., Violin and Viola Duet, unaccompanied, "Minuet," Pleyl, Edward Rice, violin, Leo Kliwen, viola; Cello solo, "Romanza," Sinonetti, Ernest Burleigh; Violin solo, "Concerto," First Movement, Nardini, Edward Rice; Instrumental selection, "Caprice," Johnson, WGY Orchestra.

Saturday, December 30, 1922

KDKA—360 Meters, Westinghouse, East Pgh., Pa.

3:00 P. M. Popular concert. Name of orchestra and program to be announced later.

4:30 P. M. Play by play report of football game between Kiskiminetas Springs Preparatory School and Palo Alto High School at Palo Alto, California.

5:30 P. M. Report, play by play, of the football game between the University of Pittsburgh and Leland Stanford University, at Palo Alto, California.

7:00 P. M. News. "Under the Evening Lamp"—copyrighted stories furnished by THE YOUTH'S COMPANION.

Program: "Modern Ways in Ancient Times,"—a comparison of the conveniences of life in ancient time with those in modern American by William H. Holmes, director of the National Gallery of Art; "Begging the Question"—how the tailor ordered two flatirons; "A Clearing House for Neighborhood Needs"—suggestions concerning a profitable business for boys; "Something Nice for Mrs. Grahame"—the story of a white elephant with iridescent feathers; "The Magic Cap"—a stranger's singular experience in Petrograd.

7:30 P. M. Bed Time Story for the Children.

7:45 P. M. Report of the New York Exchange.

8:00 P. M. Another Radio Talk—"Broadcasting Conditions", by L. W. Chubb, Radio Engineer of the Westinghouse Company.

8:30 P. M. Lyda Mae Brusck, pianist; Beatrice Glomb, violinist from Margaret Horne Studio; Marie Sybert, concert soprano; Arion Quartet.

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December 23, 1922

Program: Piano solos, "Prelude in C Sharp Minor," Rachmanioff; "Tarentelle," Karganoff; "Voices of Spring," Sinding. Violin solos, "Serenade Espagnole" Chaminade; "Prelude and Allegro," Pugnani-Kreisler; "Rondino," Beethoven. Soprano solos, "Joy," Gaul; "Thou Art the Night Wind," Gaul; "Vissi d'arte," from "Toaca," Puccini; "Morning," Oley Speaks. Selections by the Arion Quartette, "Sextette from "Lucia," Donizetti; Quartette from the "Rigoletto," Verdi.

**WJZ—360 Meters, Radio Corporation, Westinghouse
Newark, N. J.**

- 5:30 P. M. Closing prices on stocks, bonds, grains, coffee and sugar.
- 5:45 P. M. Resumé of sporting events, etc.
- 6:00 P. M. Musical program.
- 7:00 P. M. "Uncle Wiggily Stories" by Howard W. R. Garis, author.
- 8:30 P. M. "Fashions", by an Editor of Harper's Bazar.
- 8:45 P. M. A Whistling recital by L. G. Tolles, Southington, Conn. who without the aid of any mechanical device whistles a soprano and alto duet,—whistling up the scale with one side of his mouth and down the scale with the other simultaneously.
- 9:00 P. M. Dance music by the Community Club Dance Orchestra, of New York City.

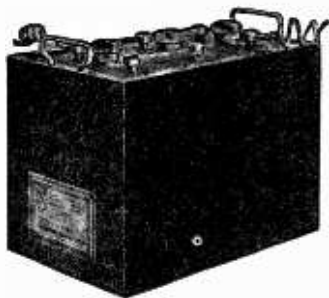
- 9:15 P. M. "Southern Fashions", by an editor of Good Housekeeping.
- 9:40 P. M. Continuation of program by Mr. Tolles.
- 9:45 P. M. Continuation of program by the Community Club Dance Orchestra.
- 9:50 P. M. "Current Topics" by the Institute for Public Service.
- 9:55-10:00 P. M. Arlington Time Signals, weather forecast.
- 10:01 P. M. Continuation of musical program.

**KYW—400 Meters, Westinghouse, Chicago, Illinois
Central Standard Time**

- 8:30 P. M. Music Program by Betty Randall, soprano; Hilda Butler Farr, pianist; Ward H. Pound, tenor; Alice Mead Pound, accompanist; Evelyn Freedman, violinist; Mrs. Donald D. Selles, accompanist.

Program: (a) "Dawn," Curran; (b) "Pale Moon," Logan, Betty Randall; (a) "Gypsy Serenade," Valdez; (b) "Mazurka," Zarzycki, Evelyn Freedman; (a) "Celeste Aida," Verdi; (b) Serenata from "La Corsicana," Browne, Ward H. Pound; "Kammenoi Ostrow," Rubenstein, Hilda Butler Farr; (a) "My Rose," Taylor; (b) "Skylark's Sons," Birck, Betty Randall; (a) "Hindoo Chant," Rimsky-Korsakoff; (b) "Polish Dance," Severn, Evelyn Freedman; (a) "Smilin' Through," Penn; (b) Raccontodi Rodolfe from "Boheme," Puccini, Ward H. Pound; (a) "Country Garden," Grainger; (b) "Romance," La Forge, Hilda Butler Farr.

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**WESTINGHOUSE UNION BATTERY CO.
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Sunday, December, 31, 1922

KDKA—360 Meters, Westinghouse, East Pgh., Pa.

- 10:45 A. M. Services of Emory Methodist Episcopal Church, North Highland Avenue at Rippey Street, Pittsburgh, Pa. Rev. W. Wofford T. Duncan, Minister.
- 2:45 P. M. Children's Bible Story by Rev. W. A. Logan, Pastor of the Alpha Lutheran Church, Turtle Creek, Pa.
- 3:00 P. M. Organ recital by Fred Lotz, organist and choir director of Emory Episcopal Church, North Highland Ave., Pittsburgh, Pa.
Program: "Shepherds in the Field," Malling; "Pastorale from the Second Symphony," Guilman; "Christmas in Sicily," Yon; "Noel," Buck; "Overture to the Messiah," Handel; "Christmas Eve," Malling; "Pastorale," Merkel; "Hallelujah Chorus," from the "Messiah," Handel.
- 4:45 P. M. Vesper Services of the Shadyside Presbyterian Church, Amberson Avenue near Fifth Avenue, Pittsburgh, Pa. Rev. Hugh Thompson, Kerr, Pastor.
- 7:30 P. M. Services of the First Presbyterian Church, Sixth Avenue, Pittsburgh, Pa. Rev. Maitland Alexander, D.D., pastor.
- Midnight A special program, to be announced in the December 30 issue of RADIO BROADCASTING NEWS, will be arranged for the New Year.

WJZ—360 Meters, Radio Corporation, Westinghouse
Newark, N. J.

- 10:30 A. M. Musical program.
- 11:00 A. M. Morning services and sermon at Saint Thomas' Church, Fifth Avenue, New York City. Rev. Ernest M. Stires, D.D., Rector and Reverend Floyd S. Leach, Ph. D. assistant, officiating. T. Tertius Noble, M. A. organist will direct the choir of 60 voices.
- 3:00 P. M. City Symphony Concert at the Century Theater, will be conveyed to WJZ by a special Western Union wire. The City Symphony Orchestra, composed of 83 players selected for their musical talent and symphonic experience, under the baton of Dirk Foch, is maintained by the Musical Society of the City of New York. Young soloists of real talent will be heard at each performance of a series of concerts. The arrangements for broadcasting these concerts were made with the assistance of Popular Radio.
- 4:45 P. M. "Something for Everybody", copyrighted stories by the Youth's Companion:
"A Diplomatist," James Holland's plan for getting his wife to work; "Some Home Uses for Card Catalogues;" "Under Another Name," What happened when the Englishman ordered two watermelons; "A Russian Legend," poem by Mable H. Eastman.
- 6:30 P. M. Readings and Records from the "Bubble Books that Sing", by Ralph Hayhew, Harper & Bros.
- 6:45 P. M. A Reading from H. G. Wells' Short History of the World. Courtesy of the Macmillan Company.

7:00 P. M. "Musical Stories" by Mary Plowden Kernan, lecturer for the New York City Board of Education.

8:00 P. M. Estey Organ Recital from the Estey Auditorium New York City. The Estey Organ Recital several weeks ago was the first broadcast of WJZ to be heard in the British Isles.

Program: "Calm Sea and Prosperous Voyage," Mendelssohn; "The Question and the Answer," Wolstenholme; "Larghetto in E Flat," Batiste; "Allegro Molto Vivace—Pathetique Symphony," Tschaiakowsky; "Serenade," Lemare; "Rondo Capriccioso," Mendelssohn; "Cantilene," Wolstenholme; "Venezia," Nevin.

9:05 P. M. Talk by Arthur Maude.

9:15 P. M. Recital by Marion Armstrong, a Scotch-Canadian soprano who had the distinction of being the first soloist to be heard at the Eastman Theater of the University of Rochester.

The program includes "The World is Waiting for the Sunrise," which made a decided impression in Rochester. The radio audience also requests Miss Armstrong to sing "Her Love Song," Mary Turner Salter; which she sang so delightfully in her recital in the Aeolian Hall. Radio recital arranged by the Betty Tilotson Concert Bureau.

9:30 P. M. Concert by Oscar Ziegler, pianist of New York.

Program: "Toccata Suge In D," Bach; "Sonata Appassionati," Beethoven; "Peprarta Sonnettes," Liszt; "Berceuse," Chopin; "Sankasie F Minor," Chopin.

9:50 P. M. Concert by Devora Nadworney, contralto, 1921 winner of the Gold Medal, of the National Federation of Musical Clubs.

Miss Nadworney has appeared in concerts all over the United States. Miss Nadworney sings in Russian. Program: Aria from the Opera "Russalka," Dargonrjisky; Short story of the opera by Mrs. James D. Boyd, of Jersey City; "Would You," Mabel Anna Corby; "A Kiss," Mabel Anna Corby; "Dawn," Corby; and "Spring is Here," Corby; "Dreams," Wagner; "Spinning Song," German; "Within Thine Eyes," Isler. Mable Anna Corby will accompany Miss Nadworney.

9:55 P. M. Arlington Time Signals, weather forecast.

11:00 P. M. Watch Night Services at Saint Thomas' Church, Fifth Avenue, New York City, Rev. Ernest M. Stires, D.D., Rector and Rev. Floyd S. Leach, Ph. D. assistant, officiating. T. Tertius Noble, M. A. organist will direct the choir of 60 voices.

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The man whose courage and foresight gave alternating current to America, and founded the Westinghouse industries.

George Westinghouse

Thirty years ago the alternating current system was but an infant, for whose life those who believed in it were fighting daily and nightly battles; today this same system is a giant of almost inconceivable size, so capable of defending itself that no one seeks to attack it. For 95% of the electricity that is generated and transmitted today is alternating current.

The story of the development of alternating current is a story of courage and vision and faith; of misunderstanding and misrepresentation; of engineering failures and triumphs; of commercial ability and organization. It reads like a classic romance. In its chapters are credit and honor for all who have deserved it, but the central figure, the man whose motives and acts furnished the basis of the plot, was George Westinghouse, the founder of the Westinghouse Industries.

When, in 1886, he brought over from Europe the crude Gaulard and Gibbs system, even he, great as was his foresight, did not dream of the coming magnitude of the idea which he was fostering. The development work undertaken by the strong engineers whom he put to work led at first into many serious differences with those who favored direct current. Legislatures were even impor-

tuned to prevent the use of the "deadly Westinghouse Current", as many extremists described it.

That the little 50 horsepower generators of those days have grown to sizes two thousand times as large; that stations of a few horsepower have been succeeded by stations with a capacity of hundreds of thousands of horsepower, while at the same time, distribution voltages have grown from 1,000 to 220,000, is due largely to the vision and the courage of George Westinghouse, and to the qualities of the engineers whom he called, characteristically, to help him. By no means the least of the achievements of this man was his ability to organize the greatest aggregation of engineering intelligence ever known, men of analytical ability, consummate mathematicians, great inventors; and to promote in this great group the most harmonious and intelligent co-operation.

The same energy and courage and purpose that forced the acceptance of the air brake, the modern systems for the economic and safe distribution of natural gas, and later of the steam turbine, led and won the fight for alternating current, which has grown to be one of the world's greatest and most necessary commodities.

Westinghouse



Additional Schedules

KHJ—broadcasting station of the Los Angeles Times, operating on 400 meter wave length, Pacific Standard Time, is being heard consistently throughout the country. Following is the schedule of this station:

Daily Except Sunday

12:30-1:15 P. M. News and concert.

7:00-7:30 P. M. "Children's Half Hour" consisting of songs for children and bedtime story by "Uncle John".

8:00-9:30 P. M. De Luxe program of instrumental and vocal music, news, and educational features.

Sunday

10:00-11:00 A. M. Sacred service, scripture reading, sermon, prayer and musical program.

WEAF—American Telephone and Telegraph Company, New York broadcasts high class programs from 8:00 to 10:00 P. M. Mondays, Wednesdays, Thursdays and Saturdays. Also week-day programs from 4:30 to 5:30 P. M.

KDYL—is the broadcasting station of the Salt Lake Telegram, Salt Lake City, Utah. A program is given every week-day evening from 7:00 to 8:00 P. M. Mountain Time, consisting of instrumental and vocal music, educational and humorous talks, plays, clog dances, news, sports, and other features. No program is given on Sundays. Cedric E. Hart is concert manager.

WBS—D. W. May, Inc. of Newark, New Jersey broadcasts on the following schedule:

Week-day mornings from 10:30 to 11:00.

Afternoons 1:00 to 1:15, and 2:15 to 2:30.

Mondays, Thursdays and Saturdays from 7:30 to 8:30 P. M.

Sundays, 9:00 to 10:30 A. M. and 1:00 to 1:30 P. M.

WLAJ—broadcasting for the Waco Electrical Supply Company, Waco, Texas, gives sermonettes and sacred music on Sundays at 3:00 P. M. Central Standard Time.

Week-day programs include market and news reports daily at 9:30 A. M. and 2:30 P. M.

On Tuesdays and Thursdays, musical programs are given from 7:45 to 8:45 P. M.

WJAM—the broadcasting station of The Evening Gazette, Cedar Rapids, Iowa, gives concerts by select artists on Mondays, Wednesdays and Fridays at 7:00 P. M. Occasionally special features are given on Saturdays and church services on Sundays. This station broadcasts on 360 meters.

WJAS is the broadcasting station of Pittsburgh Radio Supply House, 963 Liberty Ave., Pittsburgh, Pa. who broadcast daily, except Sunday, on a wave length of 360 meters, from 11:30 A. M. to noon and from 2:30 P. M. to 3:00 P. M. and also from the Pittsburgh Leader Studio every Monday, Tuesday, and Friday Evenings from 7:00 to 8:00 P. M.

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