

RADIO BROADCASTING NEWS

Vol. 3

JANUARY 13, 1923

No. 2



An Enthusiastic Radio Fan is Fred Müller, Jr., of Philadelphia, Pa. Fred is only 4½ years old. Photo by his father.



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

Trust This "A" Battery

It's built especially for Radio—to bring in the concerts and keep them coming as long as you care to listen. Sizes for one, two, or three—tube sets.

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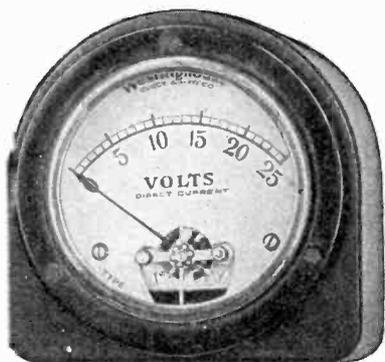
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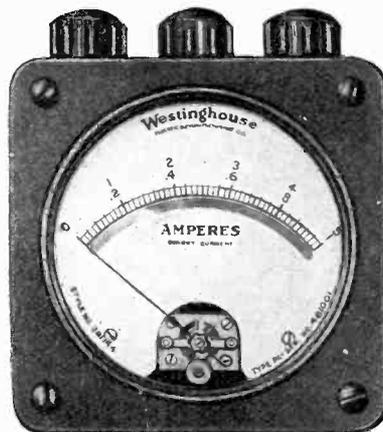
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Newark Works, Newark, N. J.

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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

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Radio Talks Are Very Instructive.

IF you haven't heard any of the talks given by Westinghouse men from station KDKA during the past month, make it a point to listen to those which are still to come in this series. These ten-minute talks have contained real information. They have been contributions to the general knowledge of radio by men who are intimately connected with it, and who have a great vision of its possibilities as the servant of mankind.

The service which can be rendered by radio broadcasting is not a menial one such as is given by our other electrical servants, but is rather cultural, intellectual, educational and spiritual.

What a wonderful contribution the electrical industry makes to the needs of humanity. It not only sweeps our floors and cooks our meals, lights our homes and gives us raiment, but it places before us great opportunities to improve ourselves.

Listen to these radio experts as they explain the problems which must be met if the fullest measure of this service is to be given. They will point out to you certain responsibilities which are yours, if you wish to be identified with one of the greatest benefactions which has ever been given mankind.

Why Don't You Speak for Yourself, John?

MANY letters are received by RADIO BROADCASTING NEWS asking how broadcasting conditions in local communities can be improved, which indi-

cates that many of our readers would like to help in the betterment of radio broadcasting, but do not know how to go about it.

Let us offer this suggestion which is an echo from the talk of L. W. Chubb recently from KDKA.

Mr. Chubb says if we have suggestions or constructive criticism to make regarding radio broadcasting, we should write to the broadcasting station, to the radio inspector in our district and to our congressional representative at Washington. To these we might add that RADIO BROADCASTING NEWS will also be glad to receive such letters, and will pass on the message to the persons most interested. But let us not keep silent. This great broadcasting service is being offered to us. What will we do with it?

The voice of the people is mighty when once it speaks. Now is the time for it to be heard.

Two Years of Broadcasted Church Services.

THE Calvary Episcopal Church of Pittsburgh recently celebrated the completion of two years of broadcasting services from that church, which was the first in all the world to send its services out in this way.

We congratulate this church and the progressive rector, Rev. E. J. Van Etten, on the increased service they have been thus enabled to perform, and we wish for them the greatest continued success in this greatly increased field of usefulness.

WEEK-DAY BROADCASTING SCHEDULE

Time given is Eastern Standard (Arlington) Time.

- 7:00 A. M. WGI—Setting up exercises.
- 9:00 A. M. WJZ—Markets.
WGI—Music.
- 9:30 A. M. WWJ—Tonight's Dinner, and talk by
Woman's Editor.
- 10:00 A. M. KDKA—Music.
WLW—N. Y. Stock Exchange Opening.
- 10:20 A. M. WLW—Music.
- 10:25 A. M. WWJ—Weather.
KYW—Markets—Stock.
- 10:30 A. M. WWJ, WCAE—Weather.
WBS—Music.
WGI—News, Reports.
WOR—Miscellaneous.
- 10:45 A. M. WBAP, WCAE—Weather.
- 11:00 A. M. KYW, WLW—Markets.
WGI—Music.
WOR—Miscellaneous.
WHB—Weather.
- 11:15 A. M. WFAA—Markets,
WLW—Weather.
- 11:30 A. M. KYW—Markets.
WLW—Music.
WOR—Miscellaneous.
- 11:55 A. M. WOC, WGY, WBZ, WJZ, WWJ—Time
Signals.
- 12:00 M. WWJ, KQV, WJZ—Music.
WOC—Weather.
KYW, WJZ, WBAP—Markets.
WOR—Miscellaneous.
- 12:15 P. M. WJZ—Music.
- 12:30 P. M. KDKA—Music.
KYW, WGY—Markets.
WCAE—News and sports.
WOR—Miscellaneous.
- 12:45 P. M. WGY—Weather.
- 1:00 P. M. WLW, WOC—Music.
KYW—Markets.
WSB—Weather Reports, Music,
Speeches.
WBS—Agriograms.
WOR—Miscellaneous.
- 1:16 P. M. WFI—News.
- 1:30 P. M. KYW—Markets.
WFAA—Address.
WOR—Miscellaneous.
- 2:00 P. M. WGY, WGR—Music, Talks.
KYW—Markets.
WGR—Latest Record Releases.
WOR—Miscellaneous.
- 2:15 P. M. KYW—Markets.
WLW, WBS—Music.
- 2:20 P. M. KYW, WGR—Closing Market Quota-
tions Chicago Board of Trade.
- 2:30 P. M. WLW, WIP—Music.
WOR—Miscellaneous.
- 3:00 P. M. WWJ, WGR—Music.
WLW, WOC—Markets and Stock.
KDKA—Music, Football Scores.
WHB—Ladies' Hour.
WOR—Miscellaneous.
- 3:15 P. M. KYW, WGR—Market and News.
- 3:25 P. M. WGI—Music.
- 3:30 P. M. KYW—Closing Quotations, Chicago
Stock Exchange.
WOR—Miscellaneous.

Before You Buy

ORGANIZED research conducted by the engineers of the Radio Corporation of America has produced Radiolas of all prices and reception-ranges. On this page we picture some inexpensive Radiolas. They are just as carefully designed and made as the larger, more expensive Radiolas bearing the symbol RCA—a guarantee of efficiency.

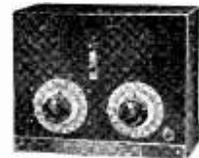
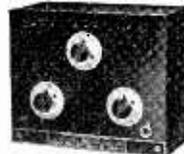
AERIOLA Sr. with the AC Amplifier

Aeriola Sr. is the simplest and most efficient of all single-tube receiving sets. It has a regenerative circuit. Price, complete with battery and antenna equipment, \$75.90. Add to the Aeriola Sr. the new AC Amplifier and the reception-range is greatly increased. Price of AC Amplifier with 2 WD-11A vacuum tubes (without batteries) \$68.00; Vocarola Loud-speaker \$30 extra. No storage battery is required—only two dry cells and a 45-volt plate battery.



Radiola Concert Receiver AR-1375

A high-grade crystal receiver of superior workmanship which operates on wave-lengths from 170 to 2650 meters. Price, complete with full antenna equipment, \$47.50



RADIOLA AR-1300 and Detector-Amplifier AA-1400

These two sets make it possible to start with crystal detection and to pass on to vacuum-tube detection and amplification at minimum cost. AR-1300 (price \$50) has a receiving range of 25 to 40 miles. Detector-Amplifier AA-1400 (price \$75) has a Radiotron detector and two stages of Radiotron amplification, with individual filament control.

The Book that Brings Radio Into the Home

These are but a few of the many Radiolas that can be bought at moderate prices. For 35 cents your dealer will sell you the book "Radio Enters the Home" in which the full RCA line is described and much valuable radio information is given.



This symbol of quality is your protection.

Radio Corporation of America

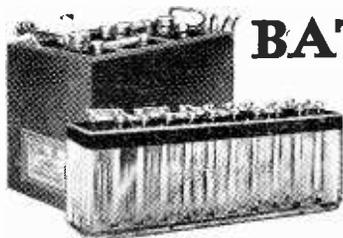
233 Broadway
New York City

10 So. La Salle St.
Chicago, Ill.

WWJ, WCAE—Weather.
KHJ—News and concert.
WFI—Concert.
3:35 P. M. KYW—Music, Tuesday and Thursday.
3:40 P. M. WWJ—Markets.
4:00 P. M. WJZ, WLW—Stocks, Markets.
WSY—Reports, Concerts, Monday, Wednesday, Friday.
KYW—News and Sports.
WHB—Weather.
WDAF—Reports, concerts.
WOR—Miscellaneous.
4:15 P. M. WCAE—Markets.
4:30 P. M. WOC—Educational talk.
KQV—Music.
KQV—Library Letter, Friday.
KYW—News—News and Sports—Tuesday, Thursday, Saturday.
WBAP—Reports.
WEAF—Concert.
WOR—Miscellaneous.
4:45 P. M. WBAP—Reports.
5:00 P. M. WWJ, KYW—News—Sports.
WSB—Concert.
WOR—Miscellaneous.
5:15 P. M. KYW—News, Market and Stock Report.
5:30 P. M. KYW, WJZ—Markets, Stocks, Sports.
WFI, KYW—News, Sports.
WOR—Miscellaneous.
5:40 P. M. WGR—Closing Prices of New York Stock Exchange and Chicago Board of Trade.
5:55 P. M. WJZ—Iron and Steel Review by Iron Age, Tuesday, Thursday.
6:00 P. M. WGY—Produce, Market, News.
WJZ—Entertainment.
WSB—News, Bedtime Story.
WHB—Weather.
WOR—Miscellaneous.
6:15 P. M. WBAP—Reports.
6:30 P. M. KGW—News.
WOR—Miscellaneous.
WFI—Radio Talk, Monday and Friday.
6:45 P. M. WOC—Chimes.
7:00 P. M. KDKA—News.
KDKA—Tri-weekly Letter from Farm and Home—Monday, Wednesday, Friday.
KDKA—U. S. Semi-weekly Health Bulletin, Tuesday, Thursday
WWJ—Detroit News Orchestra, except Saturday.

WJZ—Bedtime Stories.
WIP—Entertainment, Tuesday, Friday, Saturday.
7:15 P. M. KDKA—Theatrical Features.
WJZ—Talk on Dogs.
WGI—Music.
7:30 P. M. WBZ, WGR—Sport News—Bedtime Story.
KDKA—Bedtime Story.
KDKA—"Under the Evening Lamp"—Youth's Companion, Saturday.
KYW—News, Financial, Final Market and Sport Summary.
WBS—Entertainment, Monday, Thursday, Saturday.
WBAP—Reports.
WIP—Music, Monday, Wednesday, Thursday.
WFI—Concert, Wednesday, Friday, Saturday, (Alternate Weeks, Friday and Saturday).
WCAE—Late news.
7:35 P. M. WOC—Bedtime story.
7:45 P. M. WGY—Music—Monday, Tuesday, Friday.
WGY—Drama—Thursday.
WGR—News.
WBZ—Speaker, Markets, Weather, News.
WFAA—Bedtime Story.
KDKA—Markets—N. Y. Stocks.
7:50 P. M. KYW—Bedtime Stories.
8:00 P. M. WBZ, WOC—Music.
WGR—Music, Monday, Wednesday, Friday
WSB—Concert.
WHB—Bedtime Stories.
WEAF—Concert, Monday, Wednesday, Thursday, Saturday.
8:15 P. M. WHAZ—Concert, Monday.
8:30 P. M. KDKA—Music.
WJZ—Music and Entertainment.
WWJ—Orchestra, Town Crier, except Saturday.
WCAE—Musical program.
9:00 P. M. KYW, WFAA, KSD—Musical Program.
WSY—News, concert.
WLW—Music, Tuesday, Thursday, Friday.
WDAF—Concert, Monday, Wednesday, Friday.
WHB—Concert, Tuesday and Thursday.
WOC—Educational lecture.
9:15 P. M. WJZ—Entertainment.
9:30 P. M. WJZ—Music and Entertainment.
9:45 P. M. WJZ—Addresses, Music, Entertainment
KDKA, WJZ—Arlington Time Signals.
9:55 P. M. KYW—News and Sports.
10:00 P. M. KQV—Music, Monday, Wednesday, Friday.
WJZ—Music and Special Features.
KHJ—Children's half hour.
10:05 P. M. KYW—Special Features.
10:30 P. M. KGW—Concert (Monday), WBAP.
11:00 P. M. WOC—Music, Wednesday.
KHJ—Music, news, educational talk.
KGW—Concert (Wednesday, Friday).
11:45 P. M. WSB—Concert and entertainment.
12:00 Midnight WFAA—Music, Tuesday, Thursday, Saturday.

WESTINGHOUSE BATTERIES



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WESTINGHOUSE UNION BATTERY CO. Swissvale, Pa.

Sunday, January 14, 1923

KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.

- 11:00 A. M. Services of the East End Christian Church, Pittsburgh, Pa. Rev. John Ray Ewers, Minister.
- 2:45 P. M. Bible Story for the Children, told by Rev. W. A. Logan of the Alpha Lutheran Church, Turtle Creek, Pa.
- 3:00 P. M. Performance of liturgical music by the Choir of the St. Paul's Cathedral, Fifth Ave., Pittsburgh, Pa. Joseph Otten, Director. Rev. C. A. Sanderbeck will read the texts of the various numbers.
- Program: Advent, "Motet Jerusalem Surge;" Christmas, (a) "Gregorian Chant," gradual for the third mass; (b) "Laetentur Coeli-Mitterer," offertory for first mass; (c) "Tu Sunt Coeli-Nekes," offertory for third mass; Lent, "Ecce Quomodo," Hanydl; "Vere Languores," Nekes; "Improprium," Witt; Easter, "Gregorian Chant—Graduale Haec dies quam fecit Dominus;" "Terra Tremuit," Nekes; "Regina Coeli," Tappert. All these numbers will be sung without accompaniment. Figured music with accompaniment, "Inveni David," Zeller; "Credo from Prize Mass," Stehli; and "Tu es Petrus," Haller.
- 4:45 P. M. Services of the Shadyside Presbyterian Church, Amberson Ave., Pittsburgh, Pa., Rev. Hugh Thompson Kerr, Minister.
- 7:30 P. M. Services of the Calvary Episcopal Church, Shady Ave., Pittsburgh, Pa., Rev. E. J. Van Etten, Rector.

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

- 10:30 A. M. Musical program.
- 11:00 A. M. Morning services at St. Thomas' Church, Fifth Avenue, New York City. Sermon by the Rev. Ernest M. Stires, D. D. Rector, T. Tertius Noble, M.A., Organist, will direct the men and boys' choir of 60 voices.
- 3:00 P. M. City Symphony Concert direct from the Century Theatre. The City Symphony Orchestra under the baton of Dirk Foch, composed of 83 players selected for their musical talent and symphonic experience, is maintained by the Musical Society of the City of New York. The program includes solos by William Durieux, cellist. The arrangements and broadcasting of these concerts were made with the assistance of Popular Radio and the Western Union Telegraph Co.
- 4:45 P. M. "Something for Everybody", copyrighted stories by the "Youth's Companion". "Frostbite," What it is and how to treat it; "An Infant Solomon," humor from a schoolroom; "A Birthday Wish List," and how it justified its existence; "Double the Risk," Or Why Cy Fanning charged for the use of his ladder. "A Natural Incubator," and the Australian bird that makes it.
- 6:30 P. M. "Readings and Records from the Bubble Books that Sing", by Ralph Mayhew, Harper & Bros.
- 7:00 P. M. "Musical Stories" by Mary Plowden Kernan, lecturer for the New York City Board of Education.

7:30 P. M. "Insuring the Human Body for Health", by Dr. Lee K. Frankel, third Vice President, Metropolitan Life Insurance Company.

7:45 P. M. Estey Organ Recital from the Estey Auditorium New York City.

The Estey Organ several weeks ago was the first broadcast of WJZ to be heard in the British Isles, since then "WJZ" is heard in England regularly.

Program: "Morning, Noon and Night in Vienna," Suppe; "Melodie," Tschaikowsky; "Dance of the Hours," Ponshelli; "Grand Choir," Wheelton; "Caprice Viennois," Kreisler; "Bridal Song," Jensen.

9:05 P. M. Concert under the direction of Lazar S. Samoiloff, Carnegie Hall, New York City; Solos by Mme. Consuelo Escobar, Mme. Gita Glaze and Avo Bombarger.

Avo Bombarger, lyric tenor, has sung at the Capitol Theatre, New York and has filled a big position in the church world. He is now devoting his time to concerts and opera.

Mme. Gita Glaze, soprano, is one of the host of artists who have watched war and its aftermath play havoc with the fortunes of artists. Before the Russian revolution, she was with the Imperial Opera, and appeared successfully in Petrograd, Moscow and Tiflis.

Mme. Escobar, is a well known coloratura soprano in her native Mexico, where she appeared with Rosa Risa and Titta Ruffo in opera. She made her debut with the San Carlo Opera Company in September 1920, and with it toured the United States.

Program: "Il va venir—La Juive," Halevy; "A Group of German and Russian Songs, by Gita Glaze; "Aria-Carmen," Bizet; "A Group of English Songs," by Avo Bombarger; "Aria-Traviata," Verdi; "Group of French and English Songs," by Consuelo Escobar. Marta Stuart at the piano.

9:55 P. M. Arlington time signals, weather forecast.

10:01 P. M. Continuation of Musical Program.

KYW—400 Meters, Westinghouse, Chicago, Illinois

3:00 P. M. Radio Chapel Services will be conducted by Mr. S. A. McCollam Gen. Sec. Chicago Sunday School Association.

WGY—370 Meters, General Electric Co.,
Schenectady, N. Y.

10:30 A. M. Morning service.

4:30 P. M. Vesper service.

DUBILIER CONDENSERS

35 cents to \$1.00

Reduce tube noises and improve reception. Made like famous Dubilier Transmitting Condenser, now standard equipment throughout the world.

These new receiving condensers are of permanent capacity and will not burn out in service.

See that your receiving set is equipped with Dubilier Condensers.

Price: Type 601, 35 to 40 cents each, according to capacity.

Price: Type 600, with grid-leak mounting, 75 cents each for capacities from .0001 to .002 mfd; for capacities from .002 to .005 mfd, \$1.00 each.

Order from your dealer or jobber

The Dubilier Condenser and Radio Corp.

48-50 West Fourth Street, New York

January 13, 1923

Monday, January 15, 1923

**KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.**

- 10:00 A. M. Music.
- 12:30 P. M. Music.
- 6:15 P. M. Dinner Concert by KDKA Little Symphony Orchestra.
- 7:15 P. M. News. Letter from "Farm and Home".
- 7:30 P. M. Bedtime Story for the Children.
- 7:45 P. M. Report of the New York Stock Exchange. Weekly Survey of Business Conditions prepared by the National Industrial Conference Board.
- 8:00 P. M. Public Health Nursing Talk.
"The Humorous Side of Baseball" by Charles Doyle, baseball writer of the Pittsburgh Gazette Times.
- 8:30 P. M. Concert by KDKA Little Symphony Orchestra, Victor Saudek Director.

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

- 9:00 A. M. Early morning reports and prices and farm products.
- 11:55 A. M. Standard Time Signals and weather forecast.
- 12:00 M. to 2:15 P. M. Opening prices on active bonds and stocks, grain, coffee and sugar; midday reports and prices on farm products; musical program.
- 4:00 P. M. Closing prices on stocks and bonds, grain, coffee and sugar.
- 4:05 P. M. "Fashions" from Women's Wear Daily Newspaper.
- 5:30 P. M. Resumé of sports; musical program; special features; closing prices on stocks, bonds, grains, coffee and sugar.
- 6:00 P. M. Business and Industrial Conditions in the United States as observed by the National Industrial Conference Board.
- 7:00 P. M. Stories from St. Nicholas Magazine.
- 8:30 P. M. Concert by the Silk City Plectral Quintet of Passaic, N. J.
- 9:15 P. M. "O! Henry", by Mr. Dussy of New York.
- 9:30 P. M. Concert under the direction of Charles D. Isaacson of the New York Evening Mail.
- 9:55 P. M. Arlington Time Signals, weather forecast.
- 10:01 P. M. Continuation of program under the direction of Charles D. Isaacson.

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

- 9:25 A. M. Opening Market Quotations, Chicago Board of Trade.
- 10:00 A. M. Market Quotations, Chicago Board of Trade. Quotations every half hour thereafter until 1:00 P. M.
- 11:30 A. M. Table Talk; Domestic Science discussion by Mrs. Anna J. Peterson, of the Peoples Gas Company.

- 1:20 P. M. Closing Market Quotations, Chicago Board of Trade.
- 2:15 P. M. News and Market Reports
- 2:30 P. M. Closing Quotations, Chicago Stock Exchange.
- 3:00 P. M. News and Sports.
- 4:00 P. M. News and Sports.
- 4:15 P. M. News, Market and Stock Reports.
- 4:30 P. M. News and Sports.
- 5:00 P. M. News and Sports.
- 6:30 P. M. News by the Chicago Journal of Commerce; Financial and Final Market Reports; Sport Summary. "Topics of the Day" furnished by the Pathe Exchange.
- 6:50 P. M. Children's Bedtime Stories by Uncle Bob Campbell.
- 8:00 P. M. Musical Program by Edward Levee, the singing milk-man tenor. Mr. Levee will be accompanied on the piano by his ten-year old son Myron Levee.

The Federal Musical Circle, through Courtesy of the Barawik Co.

Program: (a) "Carnival King," (b) "The Nobel Warrior," Federal Musical Circle; (a) "I'm Waiting for Ships that Never Come in," Olman, (b) "The World Is Waiting for the Sunrise," Seitz, (a) "Fire Drill," (b) "S. I. B. A. March," Federal Musical Circle; (a) "Fluffy Ruffles," (b) "Georgette," Federal Musical Circle; (a) "Until," Sanderson, (b) "The Trail of Home Sweet Home," Ball, Edward Levee; (a) "Why Should I Cry Over You," (b) "Clover Blossoms Blues," Federal Musical Circle.

- 9:00 P. M. Special Features announced by radio-phone.

**WGY—370 Meters, General Electric Co.,
Schenectady, N. Y.**

- 7:45 P. M. Concert program.
Orchestra, "I Love a Little Cottage," O'Hara, WGY Orchestra; Reading, Something of interest to all (Copyrighted stories from the Youths Companion); Piano solo, "Love Waltz," Moskowsky, Earl Rice; Orchestra, "Narcissus," Nevin, WGY Orchestra; Violin solo, "Canzonetta," Tschaiakowsky, Edward Rice; Reading, "Hunting for Chaulmoogra Trees in Asia," (Courtesy U. S. Dept. of Agriculture); Orchestra, "Intermezzo," Hueter, WGY Orchestra; Cello solo, "On Wings of Song," Mendelssohn, Ernest Burleigh; Piano solo, "Nocturne in E Minor," Chopin, Earl Rice; Orchestra, "Marigold," Repper, WGY Orchestra; Reading, "New Year's Resolutions that Save Lives," (Prepared by the National Board of Fire Underwriters); Viola solo, "Melodie," Masenet, Leo Kliwen; Orchestra, "March," DeKoven, WGY Orchestra

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

The program for tonight to be broadcasted from Station KQV will be a special one of "Ensemble Music", which will feature some of the prime old favorites heard on all orchestra programs. The combination of strings with the organ and piano, with soloists added will assure KQV listeners of another of the programs of this sort which have now become a distinct feature of this broadcasting Station. Program and solo details to be announced over radio-phone.

Tuesday, January 16, 1923

**KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.**

10:00 A. M. Music.

12:30 P. M. Music.

7:00 P. M. News. "Fashions and Fads for Women" prepared by the Joseph Horne Company, Pittsburgh, Pa. "Health Hints" prepared by the United States Public Health Bureau, Washington, D. C.

7:30 P. M. Bedtime story for the Children.

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

8:00 P. M. Addresses by prominent business men and women.

8:30 P. M. Piano and cello recital by Professor Vladimir Karapetoff of Cornell University; Margaret Schotte, soprano, and Mrs. Hazel Harnish, composer and accompanist.

Professor Karapetoff, in addition to his duties as Professor of Electrical Engineering at Cornell University, is also an associate on the faculty of the Conservatory of Music, both situated in Ithaca, New York. Professor Karapetoff has not only attained eminence in his profession, being recognized as one of the highest authorities on electrical engineering, but is distinguished in the realms of philosophy, invention, art and music. He has written several books on scientific subjects which have a wide circulation and is in considerable demand as a lecturer and consultant on advanced scientific and engineering problems. His unusual versatility is demonstrated in his recent invention, the five string cello which he will use in this recital.

At the present time the 5th-string cello may be considered to be a successful accomplishment, both from the point of view of tone quality and mechanical construction. From a musician's point of view this means the following:

(a) Pieces of medium difficulty may now be classed as easy pieces.

(b) Really difficult pieces, which heretofore only a few masters of the instrument could attempt, have come within the range of pieces of medium difficulty.

(c) It is much easier to read a piece and to finger it properly because much of it is concentrated on the first four positions, including the fifth string, and the thumb is used much less frequently.

(d) A great many violin pieces can be placed on the 5-string cello by being merely transposed one octave lower, the strings being the same as on the violin. This opens to the cellist a vast store of high-grade violin music.

(e) In the orchestra or in a chamber ensemble, it becomes possible to play on the new instrument either the cello or the viola part.

Program: Piano selections, "Impromptu in A Flat," Chopin; "Nocturne in F Sharp," Chopin; "Valse in D Flat," Chopin; "Polonaise in A," Chopin; "Murmuring Zephyrs," Jensen; "Les Sylphides," Chaminade; "Witches' Dance," MacDowell; cello selections, "The Swan," Saint Saens; "Beethoven's Minuet," "The Lament," Gabriel-Marie; "Vito," Popper. Soprano solos, "I Send Thee Pansies," "April's Lady," and "White Rose." Prof. Karapetoff will also give a brief talk on the five-string cello.

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

9:00 A. M. Early morning reports and prices and farm products.

11:55 A. M. Standard Time Signals and weather forecast.

12:00 M. to 2:15 P. M. Opening prices on active bonds and stocks, grain, coffee and sugar;



**Charge your Radio
Battery at Home
for a Nickel**

**THE
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midday reports and prices on farm products; musical program.

- 4:00 P. M. Closing prices on stocks and bonds, grain, coffee and sugar.
- 4:05 P. M. "Fashions" from Women's Wear Daily Newspaper.
- 5:30-6:15 P. M. Resumé of Sports; musical program; special features closing prices on stocks, bonds, grains, coffee and sugar.
- 7:00 P. M. Adventure stories of Travel for Young and Old. Reading from "Down the MacKenzie," a new book of Canadian travel. Reading by the author, Fullerton Waldo. Courtesy of the MacMillan Company.
- 7:30 P. M. "Why A Corporate Trustee?", by R. Keisler, President of the New Jersey Bankers Association.
- 7:45 P. M. Concert by Clara Brockhurst, contralto, Brooklyn, N. Y.
- 8:45 P. M. "Broadcasting Broadway", by Bertha Brainard.
- 9:15 P. M. "Ampico Series of Distinguished Artists Concerts", courtesy Wm. Knabe and Company, solos by Erna Cavelle, soprano and Kurt Dieterle, violinist.

Miss Cavelle is rapidly establishing herself as a concert favorite in New York and other principal cities of the East. She is a pupil of Yeatman Griffith, the noted singing teacher. Music lovers and critics alike are highly enthusiastic over the clarity and sympathetic feeling of the interpretations.

Mr. Dieterle is one of the really promising young violinists of the day. He has studied with many of the greatest masters of the violin, including the late Henry Schradieck. He has been a favorite of many audiences and has had several solo engagements at the Rialto

Theatre in New York City. At all his engagements Mr. Dieterle has impressed his hearers not only with his musical intelligence and more than adequate technique, but with his emotional powers as well.

- 9:55 P. M. Arlington Time Signals, weather forecast.
- 10:00 P. M. Program continued by Erna Cavelle, soprano and Kurt Dieterle, violinist.

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

- 9:25 A. M. Opening Market Quotations, Chicago Board of Trade.
- 10:00 A. M. Market Quotations, Chicago Board of Trade. Quotations every half hour thereafter until 1:00 P. M.
- 11:30 P. M. Table Talk; Domestic Science discussion by Mrs. Anna J. Peterson, of the Peoples Gas Company.
- 1:20 P. M. Closing Market Quotations, Chicago Board of Trade.
- 2:15 P. M. News and Market Reports.
- 2:30 P. M. Closing Quotations, Chicago Stock Exchange.
- 2:35 P. M. Afternoon concert, furnished by Lyon & Healy Company. This concert is broadcasted from the Lyon & Healy Concert Hall.
- 3:30 P. M. News and Sports.
- 4:15 P. M. News and Sports; Stock Reports.
- 4:30 P. M. News and Sports.
- 5:00 P. M. News and Sports.
- 6:30 P. M. News by the Chicago Journal of Commerce; Financial and Final Market Reports; Sport Summary.

- 6:50 P. M. Children's Bedtime Stories.
- 8:00 P. M. Program Courtesy of Lyon & Healy Concert and Artists Department.

Program to be announced by radiophone.

- 9:00 P. M. Special features as announced by radiophone.

News, Sports and Children's Bedtime Story furnished by Chicago Evening American.

WGY—370 Meters, General Electric Co., Schenectady, N. Y.

- 7:45 P. M. Concert program.

Program furnished through the courtesy of Hudson Falls, N. Y.

March, "Second Regiment Connecticut," Reeves Hudson Falls Band; Overture, "Poet and Peasant," Suppe, Band; Solo, "Rocked in the Cradle of the Deep," Rollinson, Signor Tony Cirenno, with Band accompaniment; Double Male Quartet, "A Little Close Harmony," O'Hara; W. J. Bray, first tenor, E. R. Cornell, first tenor, F. E. Wakeley, second tenor, George Scales, second tenor; J. W. McDowell, first bass; J. H. Vail, first bass, R. B. Fisher, second bass, M. R. DeGolyer, second bass; Overture, "Cloth of Gold," Jewell, Hudson Falls Band; March, "The Hour of Victory," Beaton, Band; Trombone solo, "Love's Old Sweet Song," Molley, William H. Palmer; Selection, "American Patrol," Meacham, Hudson Falls Band; Male Quartet, "The Rosary," Nevin, E. R. Cornell, first tenor, W. J. Bray, second tenor, J. H. Vail, first Bass, R. B. Fisher, second bass; Waltz selection, "Rose-land," Jewell, Hudson Falls Band; Fox Trot, (a) "Nobody Lied," Weber, (b) "Trombone Smiles," Jewell, Band; Double Male Quartet, "The Sweetest story Ever Told," Stulls; Selection, "Forest Whispers," Losey, Hudson Falls Band; Waltz, "The Golden Wedding," St. Clair, Band; Selection, "The Best Loved Southern Melodies," Hayles, Hudson Falls Band; Male Quartet, "Deep River," Burlleigh; March, "Plume of Purity," Lincoln, Hudson Falls Band.

Wednesday, January 17, 1923

**KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.**

- 10:00 A. M. Music.
12:30 P. M. Music.
6:15 P. M. Dinner Concert by the KDKA Little Symphony Orchestra.
7:15 P. M. Letter from "Farm and Home". News Summary of the Iron and Steel Industries, prepared by "The Iron Age."
7:30 P. M. Bedtime Story for the Children.
7:45 P. M. Report of the New York Stock Exchange.
8:00 P. M. "Radio vs. Audio Amplification by M. C. Batsel, of the Westinghouse Electric & Manufacturing Company.
Public Health Nursing Talk.
8:30 P. M. Concert by KDKA Little Symphony Orchestra, Victor Saudek, director; Carrie Mayer, contralto.
Program: Selections by the Orchestra. Overture "William Tell," Rossini; (a) "Passepied," Delibes, and (b) "Le Retour," Bizet; selection "Mons. Beaucaire," Messager; "Humoresque," Dvorak; "Whispering Flowers," Von Blon; "Scenes Picturesque," Massenet; "Fantasy, Madame Butterfly," Puccini; and "Polonaise," Chopin. Contralto solos, "The Dawn," Curran; "Rachem," Mana-Zuchka; "Dream Tryst," Gadman; and "Necklace of Love," Nevin.

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

- 9:00 A. M. Early morning reports and prices and farm products.
9:30 A. M. Benjamin Franklin's 200th Anniversary of his pilgrimage from Boston to Philadelphia as conducted by the New York City Chapter of the Daughters of the American Revolution.
11:55 A. M. Standard Time Signals and weather forecast.
12:00 M. Opening prices on active bonds and stocks, grain, coffee and sugar; midday reports and prices on farm products; musical program.
1:30 P. M. Joint recital by Theresa Hoyt, soprano and Harold McCall, tenor of Stamford, Conn.
4:00 P. M. Closing prices on stocks and bonds, grain, coffee and sugar.
4:05 P. M. "Fashions" from Women's Wear Daily Newspapers.
5:30-6:15 P. M. Resumé of sports; musical program; special features; closing prices on stocks, bonds, grain, coffee and sugar; "Iron and Steel Review" by the Iron Age.
7:00 P. M. "Animal Stories" by Florence Smith Vincent, author of the "Peter's Adventures" Book, and Editor of the Women's Page of the New York Evening Telegram.
9:00 P. M. "Foods and Recipes" by Miss Anne Lewis Pierce, Director of the New York Tribune Institute.

9:10 P. M. Joint recital by Sibyl Sammis-MacDermid, dramatic soprano and Doris Doe, contralto; James T. MacDermid, accompanist.

Miss MacDermid is an American singer who has achieved an unqualified success in concert and oratorio. Miss Doe was engaged for the season 1921-22 with Harold Bachman's Band, Palm Beach and is considered by Mr. Bachman to be far superior to any artist singing with bands in the open air.

Program: Duets: "Sunset Trail of Gold," MacDermid; "O! That We Two Were Maying," Nevin; "Mistress Mary," Salter; Contralto solos—"Aria Pleurezvous Year," Massanet; "Pleading," Elgar; "The Wither Heart," Stickle; "Golden Crown," Grant voost-Travis; "Dawn," Curran. Miss Doe's accompanist will be Helen Hint.

Soprano solos "Sacrament," "I Knew You and You Knew Me," and "Charity," MacDermid; Aria "One Fine Day" (Mme. Butterfly) Puccini.

9:30 P. M. "Planning the Garden" by Peter Henderson Company.

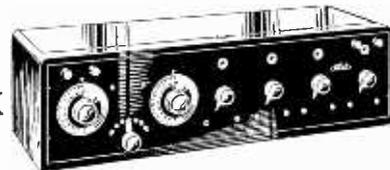
9:55 P. M. Arlington Time Signals, weather forecast.

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

9:25 A. M. Opening Market Quotations, Chicago Board of Trade.

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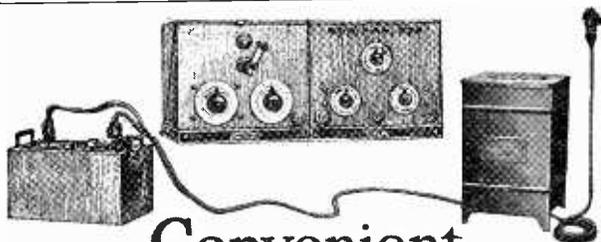
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- 10:00 A. M. Market Quotations, Chicago Board of Trade. Quotations every half hour thereafter until 1:00 P. M.
- 11:30 A. M. Table Talk; Domestic Science discussion by Mrs. Anna T. Peterson of the Peoples Gas Company.
- 1:20 P. M. Closing Market Quotations, Chicago Board of Trade.
- 2:15 P. M. News and Market Reports.
- 2:30 P. M. Closing Quotations, Chicago Stock Exchange.
- 3:00 P. M. News and Sports.
- 4:00 P. M. News and Sports.
- 4:15 P. M. News, Market and Stock Reports.
- 4:30 P. M. News and Sports.
- 5:00 P. M. News and Sports.
- 6:30 P. M. News by the Chicago Journal of Commerce; Financial and Final Market Reports; Sport Summary.
- 6:50 P. M. Children's Bedtime Stories.
- 8:00 P. M. Florence Caro Lindley, soprano; Mamie Stillerman, pianist; Edna Hall Frain; Robert C. Dyrenforth, baritone (Edison Phonograph Artist); Mabelle Neff Dyrenforth, accompanist.

Program: (a) "Loves Old Sweet Song," Malloy. (b) "The Bird of the Wilderness," Horsman, Florence Caro Lindley; (a) "Staccato Capriccio," Vogrich, (b) "Troika," Tschaikowsky, Mamie Stillerman; (a) "My Queen," Blumenthal, (b) "Answer," Robyn, Robert C. Dyrenforth; (a) "Love sends a Little Gift of Roses," Openshaw, (b) "O Cool Is the Valley Now," Koemenish, Florence Caro Lindley; (a) "Polonaise Militaire," Chopin, (b) "Guitarre," Moskowsky, Mamie Stillerman; (a) "Less Than Dust," Woodforth-Findan, (b) "Goodbye," Tosti, Robert C. Dyrenforth.

9:00 P. M. News and Sports.

News, Sports and Children's Bedtime Stories furnished by the Chicago Evening American.

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

- 10:00 P. M. Regular Weekly Popular Program of Dance Numbers and Ballads. Program to be furnished complete by Clark's Syncopators, of Pittsburgh. The personnel of the orchestra being: Violins, Philip Meider and Lewis Kschier; saxophone, Fred Hansman; cornet, Herman Boehmer; trombone, Joseph Schwartz; banjo, Thomas Custis; drums, Harry Clark; piano, Violet Miller. This is a popular dance orchestra, in constant demand in the Pittsburgh field and is made up of young clever players who put plenty of "go" into their work and are bound to please.

Program: Orchestra, "Burning Sands," from "Blood and Sand;" "For the Sake of Auld Lang Syne;" "You Gave Me Your Heart;" (with banjo solo); "The World is Waiting for the Sunrise;" "In my Home Town;" "Blue," and "Haunting Blues." To these will be added the following solo numbers:

Violin solo, "Mighty Lak' a Rose," played by Philip Meider; Banjo solo, "Carry Me Back to Old Virginny," played by Thomas Custis; cornet solo, selection from "Il Trovatore," played by Herman Boehmer.

Thursday, January 18, 1923

**KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.**

- 10:00 A. M. Music.
- 12:30 P. M. Music.
- 7:00 P. M. News. "Health Hints" prepared by the United States Public Health Service, Washington, D. C.
- 7:30 P. M. Bedtime story for the Children.
- 7:45 P. M. Report of the New York Stock Exchange.
- 8:00 P. M. Practical Hints on Modern Home Furnishing prepared by the Joseph Horne Company, Pittsburgh, Pa.
"Farm Facts" prepared by the National Stockman and Farmer, Pittsburgh, Pa.
- 8:30 P. M. Concert by the Albert Liefeld Studios, Pittsburgh, Pa. including mandolin and mandola selections by Albert Liefeld, and Helen Drewes; Harry Brocket, tenor; and Gertrude Sykes King", soprano.
Program: Soprano solos, "I Know a Garden," Skil-lings; "Songs My Mother Taught Me," Dvorak; "In Maytime," Buck; "Perhaps," Foster; tenor solos, "When You and I Were Young, Maggie;" "Little Mother O' Mine," Burleigh; "If I But Knew," Smith; "Bid Me Live," Hatton. Duet arrangements of Stephen C. Foster Melodies.

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

- 9:00 A. M. Early morning reports and prices and farm products.
- 11:55 A. M. Standard time signals and weather forecast.
- 12:00 M. to 2:15 P. M. Opening prices on active bonds and stocks, grain, coffee and sugar; midday reports and prices on farm products; musical program.
- 4:00 P. M. Closing prices on stocks and bonds, grain, coffee and sugar.
- 4:05 P. M. "Fashions" from Women's Wear Daily Newspaper.
- 5:30-6:15 P. M. Resumé of Sports; musical program; special features; closing prices on stocks, bonds, grain, coffee and sugar.
- 7:00 P. M. "Jack Rabbit Stories" by David Cory, New York Evening Mail.
- 8:30 P. M. "Fashions" by Anne Rittenhouse who is considered the best known fashion writer in America.
She has achieved a position in the world of fashion which can only be compared to that of the famous critics in art and literary circles. Twice a year Miss Rittenhouse goes to Paris and visits not only the exhibition of the great fashion creators like Collet, Poiret, Worth, Doucet, Jenny, Premet, Madeleine et Madeleine, Bernard, Beer, Dreocll Buloz, etc., but also goes to the brilliant and fashionable resorts like Deauville, where fashions are launched which either will sweep over the whole world of civilized women or die then and there.
- 9:00 P. M. Program arranged by Doubleday Page & Company.
- 9:15 P. M. Dance Music by Lewis Kite's Country Club Orchestra; T. N. Cooper, violin; Lewis Kite, saxophone; J. K. Statz, piano; C. F. Buchman, saxophone; Dudley Statz, banjo

and traps. This orchestra has played in several prominent country clubs in New Jersey.

- 9:55 P. M. Arlington time signals and weather forecast.
- 10:01 P. M. Continuation of program by Lewis Kite's Orchestra.

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

- 9:25 A. M. Opening Market Quotations, Chicago Board of Trade.
- 10:00 A. M. Market Quotations, Chicago Board of Trade. Quotations every half hour thereafter until 1:00 P. M.
- 1:20 P. M. Closing Market Quotations, Chicago Board of Trade.
- 2:15 P. M. News and Market Reports.
- 2:30 P. M. Closing Quotations, Chicago Stock Exchange.
- 2:35 P. M. Afternoon concert, furnished by the Lyon & Healy Company. This concert is broadcasted from the Lyon & Healy Concert Hall.
- 3:00 P. M. News and Sports.
- 3:30 P. M. News and Sports.
- 4:00 P. M. News and Sports.
- 4:15 P. M. News, Market and Stock Reports.
- 4:30 P. M. News and Sports.
- 5:00 P. M. News and Sports.
- 6:30 P. M. News by the Chicago Journal of Commerce Financial and Final Market Reports; Sport Summary.
- 6:50 P. M. Children's Bedtime Stories
- 8:00 P. M. Musical program to be announced by radiophone.
- 9:00 P. M. News and Sports.
- 9:05 P. M. "Twenty Minutes of Good Reading" by Rev. Claude J. Pernin, S. J. Head of the Department of English, Loyola University.
News, Sports and Children's Bedtime Stories furnished by the Chicago Evening American.

**WGY—370 Meters, General Electric Co.,
Schenectady, N. Y.**

- 7:45 P. M. Radio drama.
Selection, "Russian Melody." Cady, WGY Orchestra; Drama, "Under Cover." Roi Cooper Mergue.
The Cast—James Duncan, Assistant to Daniel Taylor, Frank Finch, Harry Gibbs, a customs inspector, Cortland Hopkins; Daniel Taylor, a Deputy in the customs, James S. B. Mullarkey; Sarah Peabody, Florence Mohan; Ethel Cartwright, Viola Karwowska; Amy Cartwright, Margaret V. Smith; Monty Vaughn, Henry Miller; Stephen Denby, Edward H. Smith. Play takes place during afternoon and evening of a day in August.
Act I—Office of the Deputy Surveyor of the Port of New York, in the customs house, New York City. Selection, "York Pageant Music," Tertius Noble. WGY Orchestra; Drama—"Under Cover,"—(Lapse of two hours between first and second acts) Act II—At the Harrington's Long Island Home. Selection, "Butter-fly," Barthelomy. WGY Orchestra; Drama—"Under Cover"—Act III—Denby's room at the Harringtons; Selection, "Willfulness," Longey, WGY Orchestra; Drama—"Under Cover"—Act IV—Same as Act II. The action of the 4th act is supposed to begin five minutes before the finish of the 3d act. Selection, "Intermezzo Pittoresque," Kocian, WGY Orchestra.

Friday, January 19, 1923

**KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.**

- 10:00 A. M. Music.
- 12:30 P. M. Music.
- 6:15 P. M. Dinner Concert by the KDKA Little Symphony Orchestra, under the direction of Victor Saudek.
- 7:15 P. M. News. Letter from "Farm and Home."
- 7:30 P. M. Bedtime 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. "Poetry—the Old and the New" a discussion of some of the marked changes in the conception of poetry with typical examples taken from the Eighteenth, Nineteenth, and Twentieth Century Poetry will be given by Marjory Stewart.
"Invitations" by Mrs. Chester B. Story, being one of the series of talks on "Etiquette".
- 8:30 P. M. Concert by KDKA Little Symphony Orchestra, Victor Saudek Director; quartets and duos from the studio of Richard Knotts, of Pittsburgh, Pa.

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

- 9:00 A. M. Early morning reports and prices and farm products.
- 11:55 A. M. Standard Time Signals and weather forecast.
- 12:00 M. to 2:15 P. M. Opening prices on active bonds and stocks, grain, coffee and sugar; midday reports and prices on farm products; musical program.
- 4:00 P. M. Closing prices on stocks and bonds, grain, coffee and sugar.
- 4:05 P. M. "Fashions" from Women's Wear Daily Newspaper.
- 5:30 P. M. Special features, closing prices on stocks, bonds, grain, coffee and sugar.
- 5:40 P. M. "A Story from the Youth's Companion", "On the Chimney Top", what happened after the mason's scaffold collapsed. Story by Rowland Thomas.
- 5:50 P. M. Conditions of leading industries by R. D. Wychoff, Editor of the Magazine of Wall Street.
- 6:00 P. M. Resumé of Sporting events; musical program.
- 7:00 P. M. "Bedtime Stories" by Thornton Burgess.
- 7:15 P. M. "American Bred Dogs" by Frank F. Dole, noted authority.

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East Pittsburgh, Pa.

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Friday Programs Continued

- 7:30 P. M. Estey Organ Recital from the Estey Auditorium New York City.
Program: "Overture der Freischutz," Weber; "Elizabeth's Prayer," Wagner; "Caprice," Guilman; "Evensong," Johnston; "First Movement of Italian Symphony," Mendelssohn; "March of the Magi Kings," DuBois; "Pastorale," Foote; "Molly on the Shore," Grainger; "Finlandia," Sibelius
- 8:30 P. M. Literary Evening conducted by the Editorial Staffs of the Outlook, Scientific American and Harper & Bros.
- 9:00 P. M. Program to be announced by radio.
- 9:55 P. M. Arlington time signals, weather forecast.
- 10:01 P. M. Continuation of musical program.

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

- 9:25 A. M. Opening Market Quotations, Chicago Board of Trade.
- 10:00 A. M. Market Quotations, Chicago Board of Trade. Quotations every half hour thereafter until 1:00 P. M.
- 11:30 A. M. Table Talk; Domestic Science discussion by Mrs. Anna J. Peterson, of the Peoples Gas Company.
- 1:20 P. M. Closing Market Quotations, Chicago Board of Trade.
- 2:15 P. M. News and Market Reports.
- 2:30 P. M. Closing Quotations, Chicago Stock Exchange.
- 3:00 P. M. News and Sports.
- 3:30 P. M. News and Sports.
- 4:00 P. M. News and Sports.
- 4:15 P. M. News, Market and Stock Reports.
- 4:30 P. M. News and Sports.
- 5:00 P. M. News and Sports.
- 6:30 P. M. News by the Chicago Journal of Commerce Financial and Final Market Reports; Sport Summary.
- 6:50 P. M. Children's Bedtime Stories.
- 8:00 P. M. Program Courtesy of Lyon & Healy Concert and Artist Department.
Program will be announced by radiophone.
- 9:00 P. M. News and Sports.
- 9:05 P. M. Reviews of the latest books given by Llewellyn Jones, Literary Editor of the Chicago Evening Post.
- 11:00 P. M.-12:00 Midnight—Midnight Show.
News, Sports and Children's Bedtime Stories furnished by the Chicago Evening American.

**WGY—370 Meters, General Electric Co.,
Schenectady, N. Y.**

- 7:45 P. M. Musical program.
Piano solo, "Operatic Medley," Arranged by Rubens. Paul Rubens; Baritone solos, (a) "One Fleeting Hour" Lee. (b) "Old Doctor McGinn," Lohr, James L. Williamson; Violin solo, "Spanish Dance," Sarasate. Master Adelbert Purga (12 year old violinist) E. C. Smith, accompanist; Address, "The Use and Abuse of Money," Charles D. Jarvis, Secretary Herkimer County Trust Company, Little Falls, N. Y. Piano solo, "Hungarian Dance," Brahms, Paul Rubens; Baritone solo, "A Warrior Bold," Adams, James L. Williamson; Reading, "Penrod's Wednesday Madness," Booth Tarkington, Ruth Edmonds; Violin solo, "Air Varie,"

Rode, Master Adelbert Purga; Baritone solo, "The Ringers," Lohr, James L. Williamson; Pallaphophone address by Miss Mabel L. Boardman, National Secretary of American Red Cross; Piano solo, Ballet Music from the opera "Faust" Gounod, Paul Rubens; Readings, (a) "In the Usual Way," Anon. (b) "Somebody said it couldn't be done," Guest, Ruth Edmonds; Violin solo, "Hungarian Melody," Aladar, Master Adelbert Purga, E. C. Smith, accompanist.

10:30 P. M. Musical program.

(Dance Music Joe Mittenenthal, Inc.)
Fox Trot, "Three Little Words," Brown, The Syncopaters; Fox Trot, "Tell Her at Twilight," Grossmann, Orchestra; Tenor solo, "Sweet Miss Mary, Neidlinger, Joseph Culhane, Mary Culhane, accompanist; Fox Trot, "If I Had My Way," Mecum, The Syncopaters; Fox Trot, "Foolish Wives," Stern, Orchestra; Waltz, "Parting," Tucker, Orchestra; Tenor solo, "Isle of Dreams," (by request) Olcott-Ball, Joseph Culhane; Fox Trot, "Lonesome Blues," Gasner, The Syncopaters; Fox Trot, "Smile Away the Blues," Stern, Orchestra; Waltz, "I'll Take You Home Again," Sacre Orchestra; Tenor solo, "A Spirit Flower," Tipton, Joseph Culhane, Mary Culhane, accompanist; Fox Trot, "Song of My Heart," Jarnagin, The Syncopaters; Fox Trot, "Sweet Angeline," Creamer, Orchestra; Waltz, "Venetian Nights," Marks, The Syncopaters.

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

- 4:30 P. M. Special Kiddies Program, with Story-Time and other attractive Features.
- 10:00 P. M. Program of Irish Songs and Character Readings to be furnished by Mary Ablett Brennan, contralto, William Brennan, tenor, and Miss Bessie Walz, reader.

All are experienced radio artists and will put over a program of songs rarely heard from modern concert singers. The demand from the "invisible audience" being constantly for the "old songs" this program has been selected with particular attention to these requests and is unique in every respect. The artists are more than capable to carry out the slightest detail of its traditions and special features.

Program: Contralto solos; "Irish Love Song," by Foote; "Danny Boy," arr. from the Old Traditional Irish; "Bendemeer's Stream," Tenor solos; "Mother Machree," "Ashore," "The Low-Backed Car," "The Kerry Dance," "Kathleen Mavourneen; and "Irish Eyes are Smiling;" Duet for contralto and tenor; "Where the River Shannon Flows."
Readings by Miss Walz: "Mrs. Casey at the Euchre Party," and "The Christenina' at Maguire's."

Saturday, January 20, 1923

**KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.**

- 10:00 A. M. Music.
- 12:30 P. M. Concert.
- 3:00 P. M. Popular Musical Concert.
- 7:00 P. M. News. "Under the Evening Lamp", being copyrighted stories by the Youths' Companion.
Program: "On the Chimney Top," "Frostbite;" "An Infant Solomon;" "A Birthday Wish List," "Double the Risk."
- 7:30 P. M. Bedtime Story for the Children.
- 8:00 P. M. "Transmission" by D. C. Little of the Radio Engineering Department of the Westinghouse Electric & Manufacturing Company.
- 8:30 P. M. Concert by Anna Davis Shorthouse, soprano; C. A. Davis, tenor; A. G. Popcke,

January 13, 1923

piano, and N. M. Muscaro, violin; Alice C. King, accompanist.

Program: Soprano and tenor solos to be selected. Violin solos, "Serenade," (Les Millions D' Arlequin) Drigo-Auer; "Chanson Triste," Tchaikowsky; "Cavatina," Raff; "Elegies," Massenet. Piano solos, "Hunting Song," Mendelssohn; "Sonata in A Major," Mozart, including Andante Grazioso, Minuetto; and Alla Turca; "Reveil du Lion," Antone de Kartski.

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

- 9:00 A. M. Early morning reports and prices and farm products.
- 11:55 A. M. Standard Time Signals and weather forecast.
- 12:00 M. Opening prices on active bonds and stocks, grain, coffee and sugar; midday reports and prices on farm products; musical program.
- 1:15 P. M. Concert by Harold Stern and His Hotel Belleclaire Orchestra of New York.
- 4:00 P. M. Closing prices on stocks and bonds, grain, coffee and sugar.
- 4:05 P. M. "Fashions" from Women's Wear Daily Newspaper.
- 5:30 P. M. Closing prices on stocks, bonds, grain, coffee and sugar, resum e of sporting events; special features.
- 7:00 P. M. "Uncle Wiggily Stories" by Howard R. Garis, author.
- 8:30 P. M. "Fashions" by an editor of Harper's Bazar.
- 8:45 P. M. Concert by the Singer Manufacturing Company's Orchestra of Elizabeth, N. J. Program to be announced by radio.
- 9:00 P. M. "How to Get Fat" by William Johnston, well-known as the author of "Limpy" and several mystery novels.

Mr. Johnston's most recent book "The Fun of Being a Fat Man," is described as the season's masterpiece of humor. After this article was written it was met with such acclaim that Mr. Johnston's publishers insisted on its being expanded into a book. It is one of the added chapters giving the rules on "How to Get Fat," that Mr. Johnston has promised to broadcast. He insists that all the world would be happier if everybody weighed twenty-five pounds more. At any rate, though reams have been written on "how to get thin," William Johnston is the first in the field for the fat man, and his fifteen minutes at WJZ station promises to supply some interesting and funny moments.

- 9:55 P. M. Arlington time signals, weather forecast.
- 10:05 P. M. "Current Topics" by the Institute for Public Service.

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

- 9:25 A. M. Opening Market Quotations, Chicago Board of Trade.
- 10:00 A. M. Market Quotations, Chicago Board of Trade. Quotations every half hour thereafter until 1:00 P. M.
- 11:30 A. M. Table Talk; Domestic Science discussion by Mrs. Anna J. Peterson, of the Peoples Gas Company.
- 1:20 P. M. Closing Market Quotations, Chicago Board of Trade.

- 2:15 P. M. News and Market Reports.
- 2:30 P. M. Closing Quotations, Chicago Stock Exchange.
- 3:00 P. M. News and Sports.
- 3:30 P. M. News and Sport.
- 4:00 P. M. News and Sports.
- 4:15 P. M. News, Market and Stock Reports.
- 4:30 P. M. News and Sports.
- 5:00 P. M. News and Sports.
- 6:30 P. M. News by the Chicago Journal of Commerce; Financial and Final Market Reports: Sports Summary.
- 6:50 P. M. Children's Bedtime Stories.
- 8:00 P. M. Musical program to be broadcasted from Kimball Hall, Chicago.
This program will include selections on the Kimball Pipe Organ.
- 9:00 P. M. News and Sports.
- 9:05-9:25 P. M. "Under the Evening Lamp", a service including stories, articles and humorous sketches. This service is furnished by the Youth's Companion.
News, Sports and Children's Bedtime Stories furnished by the Chicago Evening American.

Sunday, January, 21, 1923

**KDKA—360 Meters, Westinghouse Electric,
East Pittsburgh, Pa.**

- 10:45 A. M. Services of the Emory Methodist Episcopal Church, North Highland Ave. at Rippey Street, Pittsburgh, Pa. Rev. W. Wofford T. Duncan, Minister.
- 1:45 P. M. Children's Bible Story, by Rev. W. A. Logan, Pastor Alpha Lutheran Church, Turtle Creek, Pa.
- 2:00 P. M. Annual Memorial Services of the Pittsburgh Firemen, from Davis Theater, Pittsburgh, Pa.
- 3:30 P. M. Organ recital from the Calvary Episcopal Church, Shady Ave., Pittsburgh, Pa., by J. H. Weisel, organist of the Second Presbyterian Church, Pittsburgh, Pa., assisted by Alan B. Davis, baritone.
Program: "Marche Ruse," Schminke; "From the Southland," Harvey B. Gaul; "Shepherd's Dance," (Henry VIII) German; "Dialogue d'Amour," Weisel; "Lento (from Two Pierrot Pieces) Cyril Scott; and "Will O' the Wisp," Nevin. Baritone solos to be selected.
- 4:45 P. M. Vesper services of the Shadyside Presbyterian Church, Amberson Ave., Pittsburgh, Pa., Rev. Hugh Thompson Kerr, Minister.
- 7:30 P. M. Services of the Calvary Episcopal Church, Shady Ave., Pittsburgh, Pa., Rev. E. J. Van Etten, Rector.

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

- 10:30 A. M. Musical Program.
- 11:00 A. M. Morning services at St. Thomas' Church, Fifth Avenue, New York City. Sermon by the Rev. Ernest M. Stires, D.D. Rector. T. Tertius Noble, M.A., organist, will direct the boys and men's choir of 60 voices.

- 3:00 P. M. City Symphony Concert direct from the Century Theatre. The City Symphony Orchestra under the baton of Dirk Foch composed of 83 players elected for their musical talent and symphonic experience, is maintained by the Musical Society of the City of New York. Young soloists of real talent are heard at each concert. The arrangements for broadcasting these concerts were made with the assistance of Popular Radio and the Western Union Telegraph Co.
- 4:40 P. M. "Something for Everybody", copyrighted stories by the Youth's Companion.
- 6:30 P. M. "Readings and Records from the Bubble Books that Sing", by Ralph Mayhew, Harper & Bros.
- 7:00 P. M. "Musical Stories" by Mary Plowden Kernan, lecturer for the New York City Board of Education.
- 7:30 P. M. "Everglades of Florida", by Charles Baker, Mehegan Lake, N. J.
- 7:45 P. M. Estey Organ Recital from the Estey Auditorium, New York City. The Estey Organ several weeks ago was the first broadcast of WJZ to be heard in the British Isles.
- Program: "Italian in Algiers Overture," Rossini; "Minuetto L'Arlesienne Suite," Bizet; "To Spring," Mathews; "Offertoire," Wely; "Gavotte a-La Cour," "Adagio-Sostenuto Moonlight Sonata," Lemare; Beethoven; "Saki from Persian Suite," Stroughton; "Oh for the wings of a dove," Mendelssohn; "Serenade," MacFarlane; "Grand Chorus in D," Guilman.
- 8:45 P. M. Concert by R. B. Kingman, cellist, for the New York Phil-harmonic Stringed Quartet.
- 9:55 P. M. Arlington Time Signals, weather forecast.
- 10:01 P. M. Continuation of program by Mr. Kingman, cellist.

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

- 11:00 A. M. Central Church Services broadcasted from Orchestra Hall. Dr. Frederick F. Shannon, Pastor. Musical Program under the direction of Daniel Protheroe.
- 3:30 P. M. Studio Chapel Services conducted by Rev. Geo. T. McCarthy of St. Margaret's Church, Rogers Park. Special Musical Program by the Church Choir.
- 7:00 P. M. Chicago Sunday Evening Club Services broadcasted from Orchestra Hall. Special Musical Program by the Choir of one hundred under the direction of Edgar Nelson.

WCAE, is the broadcasting station of the Pittsburgh Press, Pittsburgh, Pa. whose studio is located at the Kaufmann & Baer Co., The daily program is:—

- 10:30 A. M. Weather reports (485 meters).
10:45 A. M. Open Stock Market reports.
12:30 P. M. News and reports.
3:30 P. M. Weather reports (485 meters).
4:15 P. M. Closing stock market reports.
7:30 P. M. Late News.
8:30 P. M. Musical Program.

WCAE operates on 400 meters, Eastern Standard Time.

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East Pittsburgh, Pa.
Permit No. 102.

Jan. 13, 1923

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