

Programmes Continued

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- You Meet a Fairy." Song, Evelyn Shepard, "In a Toy Balloon." Recitation, Harold Davidson, "So Was I." Recitation, Miss Billie Sapsford, "The Dream Man." Story-time, "In An Old Castle." Recitation, Etta Kirkwood, "Vespers."
- 7.15: News session.
7.30: "The New Motor Regulations," reviewed by Mr. W. D. Ansell, president, Otago Motor Club.
8.0: Town Hall chimes.
8.1: Baritone solos—Mr. Bert Rawlinson, (a) "The Admiral's Broom" (Devan); (b) "The Diver" (Loder).
8.8: Flute solo—Mr. Chas. E. Gibbons, "Prince Methusalem" (Strauss).
8.14: Contralto solo—Miss Flora Williamson, "Linden Lea" (Williams).
8.17: Orchestral selection.
8.21: Bass solo—Mr. Neil Black, "Gipsy Love Song" (Herbert).
8.24: Pianoforte solo—Miss Alice Wilson, F.T.C.L., "Sonata in B Major—Allegro" (Mozart).
8.29: Soprano solos—Mrs. D. Carty, (a) "That Old Irish Mother of Mine" (Von Tilzer); (b) "There's a Wee Bit Land."
8.36: Orchestral selection.
8.40: Baritone solo—Mr. Bert Rawlinson, "Rocked in the Cradle of the Deep" (Knight).
8.44: Flute solos—Mr. Chas. E. Gibbons, (a) "Love's Request" (Reichardt); (b) "Mignon" (Thomas).
8.54: Contralto solos—Miss Flora Williamson, (a) "Can't Remember" (Goatley); (b) "Sapphic Ode" (Brahms).
9.0: Weather report and forecast.
9.2: Bass solos—Mr. Neil Black, (a) "Russian Love Song" (Lardelli); (b) "The Mountains of Mourne" (Herbert).
9.9: Pianoforte solo—Miss Alice Wilson, "Sonata in B Major—Adagio and Allegro" (Mozart).
9.16: Vocal duet—Mrs. D. Carty and Mr. Bert Rawlinson, "Hunting Tower."
9.20: Orchestral selection.
9.23: Soprano solo—Mrs. D. Carty, "The Harp That Once" (Moore).
9.26: Relay of dance music by Alf Carey's Dance Orchestra from the Savoy.
10.0: God Save the King.

Saturday, May 5

1YA AUCKLAND (333 METRES)—SATURDAY, MAY 5.

- 2.45 p.m.: Relay of Rugby football from Eden Park.
6.0: Children's hour—Cinderella. Monologue, Margot Trafford, "Little Brown Rabbit." Banjo solo, Ross MacBridge, "A Little Spanish Town." Letters and birthdays. Monologue, Margot Trafford, "Before." Uncle Mack, jungle stories. Song, Cinderella, "Good-night, Radio Family." Bed-time stories.
7.15: News and reports, sports results.
8.0: Chimes.
8.1: Relay of overture from Prince Edward Theatre Orchestra, under Mr. E. Beacham.
8.10: Vocal quartet—The Lyric Quartet, (a) "Sailors' Chorus" (Parkes); (b) "Soldiers' Farewell" (Kinkell).
8.18: Humour—Mr. Allan McElwain, "Some Humour."
8.23: Vocal and instrumental—The Bohemian Trio, "Popular Maori Melodies," (a) "Pukarekare"; (b) "Matangi"; (c) "Hoki Hoki Tonu."
8.31: Tenor solo—Mr. Herbert Richards, "Longing For You" (Stevens).
8.35: Bass solo—Mr. Ernest Thomas, "Off to Philadelphia" (Sanders).
8.40: Relay of entr'acte from Prince Edward Theatre Orchestra, under the conductorship of Mr. E. Beacham.
8.48: Quartet—The Lyric Quartet, "The Mulligan Musketeers" (Adams).
8.52: Tenor solo—Mr. Arthur Ripley, "Serenade" (Tosselli).
8.56: Vocal and instrumental—The Bohemian Trio, popular Maori melodies, (a) "Hine Hine"; (b) "Hoea Ra"; (c) "Poatarau Maori."
9.4: Weather report and forecast.
9.5: Humour—Mr. Allan McElwain, "More Humour."
9.10: Vocal quartet—Lyric Quartet, "A Summer Lullaby" (Barnes).
9.14: Relay of dance music by the Internationals, under Mr. Clyde Howley from Dixieland Cabaret.
11.0: God Save the King.

2YA WELLINGTON (420 METRES)—SATURDAY, MAY 5.

- 3 p.m.: Running description of Rugby football match from Athletic Park.
5.0: Close down.
6.0: Children's hour.
7.0: News session, market reports, and sports results.
8.0: Chimes of the General Post Office clock, Wellington.
8.1: Overture—The Orchestra, "Light Cavalry" (Suppe).
8.10: Quartet—Melodie Four, "In Absence" (Abt).
8.14: Banjo solo—Mr. Chas. Brazier, "Happy-go-Lucky" (Grimshaw).
8.19: Bass solo—Mr. W. W. Marshall, "The Cold North Sea" (Courtney).
8.23: Selection—The Orchestra, "Chu Chin Chow" (Norton).
8.33: Duet—Messrs. R. S. Allwright and Sam. Duncan, "Fickle-hearted Mimi" from "La Boheme" (Puccini).
8.37: Mandolin band—Mrs. Sawden's Mandolin Band, (a) "Bridesmaid's Gavotte" (Angel-Carini); (b) "Romance" (Tollhurst).
8.45: Humour—Mr. Geo. Titchener, "Euclid" (original).
8.52: The Orchestra, (a) "violin solo, 'The Swan' (Saint-Saens); (b) "Minnet" (Paderewski).
9.0: Weather report.
9.2: Tenor solo—Mr. Sam. Duncan, "Tom Bowling" (Dibin).
9.6: Banjo solo—Mr. Chas. Brazier, "Take Your Pick" (Mandell).
9.11: Baritone solo—Mr. R. S. Allwright, "Pagan" (Lohr).
9.15: The Orchestra, "Musical Switch" (Alford).
9.25: Tenor solo—Mr. Frank Bryant, "Bird of Love Divine" (Haydn Wood).
9.29: Humour—Mr. Geo. Titchener, "The Ridiculousities of a Novelist" (MS.).
9.36: The Orchestra—"Popular Melodie" (Sullivan).
9.46: Quartet—Melodie Four, "Simple Simon" (Macey).
2.50: Programme of dance music.

3YA CHRISTCHURCH (306 METRES)—SATURDAY, MAY 5.

- 3 p.m.: Relay of Rugby football from Lancaster Park.
6.0: Children's hour—Uncle Sam and Aunt May. Stories and songs for the little and big.
7.15: News session.
8.0: Chimes and overture.
8.5: Joy song—Rollicking Bobby, "Baby Face" (Davis and Ask.).
8.9: Clarinet solo—Mr. S. E. Munday, "Serenade Elegante" (Heller).
8.13: Popular song—Mr. A. E. Dowell, "Love is Just a Little Bit of Heaven" (Baer).
8.17: Magic flute solos—Mr. Verner Lawford, (a) "Swiss Cradle Song" (Scott); (b) "Omaka Waltz Melody" (Nicholls).
8.24: Contralto solos—Miss Constance Flammank, (a) "Look Up O Heart" (Del Riego); (b) "Ships That Pass in the Night" (Stephenson).
8.32: Instrumental trios—Christchurch Broadcasting Trio, (a) "Blue Danube Waltz" (Strauss); (b) "Gavotte" (Sinding).
8.42: Happy duets at the piano with ukulele—Misses Muriel Johns (piano) and Edna Johnson (ukulele), (a) "Breeze" (Hanley); (b) "Who-oo You-oo" (Yager).
8.50: English concertina duets—Theo and Miss Frances Gunther, "Colonel Bogey" (Alford); (b) "Ukulele Dream Girl" (Low).
8.55: Humorous recitation—Mr. Hiram Dunford, "The Enchanted Skirt" (a philosophical fairy story).
9.0: Weather report and forecast.
9.1: Overture.
9.6: Joy songs—Rollicking Bobby, (a) "Sweet Child" (Whiley); (b) "Ukulele Lady" (Whiting).
9.13: Clarinet solos—Mr. S. E. Munday, (a) "Harlequinade Polka" (Morelli); (b) "Weber's Last Waltz" (Le Thiere).
9.20: Popular songs—Mr. A. E. Dowell, (a) "The World is Waiting For the Sunrise" (Seitz); (b) "Charmaine" (Rapley and Pollock).
9.27: Phono fiddle solos—Mr. Verner Lawford, "The Question" (Elkin); (b) fox-trot melody, "Avalon" (Burcher).
9.34: Contralto solo—Miss Constance Flammank, "Hindoo Song" (Bemberg).
9.38: Instrumental trios—Christchurch Broadcasting Trio, (a) "Berceuse de Jocelyn" (Godard); (b) "Three Pours Waltz" (Taylor).
9.48: Happy duets at the piano with ukulele—Misses Muriel Johns (piano) and Edna Johnson (ukulele), (a) "Shady Trees" (Donaldson); (b) Dew, Dew, Dewy Day" (Podias).
9.55: English concertina duets—Theo and Miss Frances Gunther, (a) "Always"; (b) "Napoleon's Last Charge."

LONG aerials, as a rule, are best if one has a selective receiver, or one with which it is easy to separate the various stations. With the advent of high power broadcasting, however, one has to live a considerable distance from such stations to bring in one without hearing another in the background. For that reason, many radio manufacturers recommend an aerial of between fifty and seventy-five feet. The aerial could be of No. 14 twisted strand enamelled wire. No. 18 rubber-covered wire makes an excellent lead-in.

ONCE upon a time the New York "Radio News" regularly devoted a large proportion of its space to amateur transmission, morse code work, etc., but broadcast listening has so overwhelmed amateur transmission in general interest that the "Radio News" now allows very little space to the "ham." In reply to the criticism of a correspondent, the New York paper says—"The 'Radio News' caters to the greatest number of radio enthusiasts. This majority is composed of those people who are interested only in the phases of radio reception, and who have little knowledge of the radio code, and less of transmitting practices. You are quite correct in stating that 'Radio News' is devoted to the interests of the broadcast listener; that is our aim, but not quite completely so, as we do publish enough technical articles to appeal to those more advanced radio fans who can appreciate them. The people who can read good code are comparatively few in number, and their special interests are covered by a magazine which has no other function."

IN the ordinary tuned radio-frequency receiver, the efficiency is highest when the dials are tuned to the shortest wave-length; and, as the wave-length is increased, the efficiency decreases steadily. The result is that, on the waves between 400 and 500 metres, where much of the listening actually takes place, the sensitivity of the set is often only one-third of maximum. On the other hand, makers of the best tuned radio frequency sets have embodied methods of overcoming this disability.

IN round numbers, the average American home spends 50 dollars (\$10) a year for soft drinks and ice cream; for tobacco, about 100 dollars (\$20) a year; for telephone, 80 dollars (\$6) a year; for radio, 25 dollars (\$5 12s.) a year; while the automobile costs 420 dollars (\$84) a year, more than fifteen times as much as the electricity bill.

RADIO dry batteries should always be tested for their voltage, as that is an important thing to know. Furthermore, they should be tested with a high-grade, high resistance voltmeter. The ordinary pocket voltmeter has a much lower resistance than the radio valve, and its indications will be lower than that actually impressed by the battery to the tube. A low resistance instrument, therefore, may condemn the battery too severely.

ARRANGEMENTS were completed in New York recently, whereby radio fans were able to listen to the broadcast of a musical comedy, and the next day purchase the exact programme, including the radio announcements, in the form of a phonograph record. The first programme of this kind was given over WHAF on March 11, between 5.30 and 6 p.m.

"THERMOS" (Thorndon) writes:—Let us hope that when the Wellington Radio Society is appointing a representative for the society on the 'public relations' committee with respect to broadcasting matters, that they will weigh carefully the personal attributes of the candidates. The representative should be an experienced listener, and not a five-minutes in the game quib. He should be a man of good judgment, and not given to venting hot air. He should not have a reputation for putting his foot in it when he opens his mouth in public. He should not be an individual who is seeking the appointment merely for self-glorification, and the free advertising he is likely to get out of the position for his own business purposes. The society has a serious responsibility before it, and it should be prepared to make a judicious selection. The appointee should have the confidence of the general body of listeners, and, above all, should have an unimpeachable record. If the man who is appointed does not fit this bill the "public relations" committee is doomed to failure so far as the Wellington listeners' faith in him is concerned.

IT is first be understood that a "C" battery is not a cure-all. It will not increase the range of your set, nor will it make a simple one-valve set operate from a loop, nor give loud-speaker volume from the Australian stations with one valve, when used on an aerial. The primary purpose of a "C" battery is to put a negative bias on the grid element of the valve, thereby preventing a flow of current from the filament to the grid; it reduces the "B" battery drain considerably, producing a saving in four yearly "B" battery bills. It also affords clearer reception by reducing somewhat the noises in a set. A "C" battery is used to advantage only in cases where the "B" battery voltage is in excess of 50 volts. "C" battery is most commonly used on the amplifier valves, and the circuit can be arranged so that but one "C" battery takes care of both amplifiers.

- 10.2: Humorous recitation—Mr. Hiram Dunford, "The Little Hatchet" (George Washington story revised).
Dance music until 11 p.m.
God Save the King.

4YA DUNEDIN (463 METRES)—SATURDAY, MAY 5.

- 11.30: Relay of Forbury Park Trotting Club's meeting (subject to permission being obtained).
7.15: News session.
7.30: Address under the auspices of Workers' Educational Association by Dr. G. E. Thompson, on "French Literature."
8.0: Town Hall chimes.
8.1: Orchestral music relayed from the Empire Theatre.
8.11: Soprano solos—Miss Agnes Guy, (a) "The Wood Pigeon" (Lebmann); (b) "Pukarekare" (Hill).
8.17: Instrumental trio (violin, cello and piano)—"Andante" (Beethoven).
8.22: Baritone solo—Mr. Arthur Langley, "When the Sergeant Major's on Parade" (Longstaffe).
8.26: Pianoforte solos—Miss Muriel Caddie, (a) "Le Papillon" (Levallee); (b) "Valse Lyrique" (Sibelius).
8.36: Orchestral interlude from Empire Theatre.
8.46: Mezzo-soprano solos—Miss Molly Vickers, (a) "I Hear a Thrush at Eve" (Cadman); (b) "Just a-Wearying For You" (Jacobs-Bond).
8.54: Cello solo—Mr. P. J. Palmer, "Aria" (Bach).
9.0: Weather report and forecast.
9.2: Instrumental trio, (a) "Scherzo" (Reissiger); (b) "Melodies Mignones" (Sinding).
9.13: Soprano solo—Miss Agnes Guy, "Rosebud" (Drummond).
9.17: Violin solos—Miss Eva Judd, (a) "Mazurka" (Henry); (b) "Chant Hindu" (Rimsky-Korsakov).
9.23: Pianoforte solo—Miss Muriel Caddie, "Polish Dance" (Scharwenka).
9.28: Baritone solos—Mr. Arthur Langley, (a) "The Devout Lover" (White); (b) "Sea Fever" (Ireland).
9.35: Cello solo—Mr. P. J. Palmer, "Dance Orientale" (Squire).
9.40: Mezzo-soprano solo—Miss Molly Vickers, "Think of Me" (Scott).
9.44: Violin solos—Miss Eva Judd, (a) "Cavatina" (Raff); (b) "Chant Sans Paroles" (Tchaikowsky).
9.52: Orchestral music from the Empire Theatre.
10.0: God Save the King.

Sunday, May 6

1YA AUCKLAND (333 METRES)—SUNDAY, MAY 6.

- 3 p.m.: Afternoon session—Selected gramophone items.
4.0: Literary selection by the announcer.
4.8: Further gramophone items.
4.30: Close down.
6.0: Children's song service, conducted by Rev. L. B. Busfield, assisted by cousins from Beresford St. Sunday School.
6.55: Relay of evening service from Baptist Tabernacle. Preacher, Rev. J. Kemp; organist and choirmaster, Mr. Arthur E. Wilson.
8.30: Relay of organ recital by Mr. J. Maughan Barnett from Town Hall.
9.30: God Save the King.

2YA WELLINGTON (420 METRES)—SUNDAY, MAY 6.

- 6 p.m.: Children's song service, conducted by Uncle Ernest, assisted by St. Peter's Choristers.
6.55: Relay of evening service from St. Andrew's Presbyterian Church. Preacher, Rev. R. J. Howie, B.A.; organist and choirmaster, Mr. Frank Thomas.
8.15 (approx.): Relay of band concert of the Wellington Municipal Tramways Band from His Majesty's Theatre.

3YA CHRISTCHURCH (306 METRES)—SUNDAY, MAY 6.

- 5.30 p.m.: Children's song service by Uncle Sam, assisted by scholars from Moorhouse Avenue Church of Christ.
6.30: Relay of evening service from Church of Christ, Moorhouse Avenue. Preacher, Rev. Howard Earle; choirmaster, Mr. H. Ames; organist, Miss E. Hepburn.
8.0: Rebroadcast of 2YA, Wellington (concert by Municipal Tramways Band from His Majesty's Theatre).
God Save the King.

4YA DUNEDIN (463 METRES)—SUNDAY, MAY 6.

- 5.30 p.m.: Children's song service, conducted by Big Brother Bill and assisted by a choir of young people from Trinity Church Sunday School.
6.30: Relay of service from Knox Church. Preacher, Rev. Tulloch Yulke, B.D., M.A.; organist, Mr. W. Paget Gale.

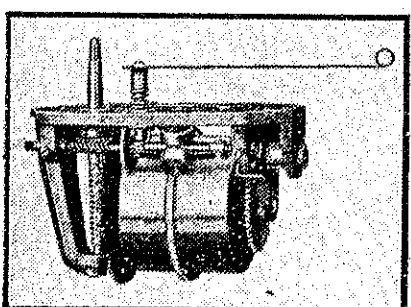
A NUMBER of broadcast listeners, on a recent evening, picked up DXF, Downes Grove, Illinois, U.S.A., power 5000 watts; wavelength, between 280 and 290 metres. The station was testing, and asked for reports.

The American attempt to use the new word "radiocast" in place of "broadcast" has apparently failed completely, and the former term is seldom seen in print. An American radio writer says: "Without explanation, ask 100 people in the street what 'radiocast' means, and if they answer at all it will be a guess that it has something to do with the receiving instrument, as a radio set to-day is generally accepted as a receiving set, not a transmitter. Ask that same 100 what 'broadcast' means and they will tell you, and tell you correctly."

SRINGS means batteries connected positive to negative. This method of connecting gives a voltage equal to the sum of the voltages of the individual batteries or cells. Thus, a 22½ volt "B" battery is composed of 15 cells connected in series. Two "A" batteries connected in series give 3 volts.

If you use a motor-car storage battery for lighting the filaments be sure it does not exceed six volts. There are several makes of such batteries on the market whose voltage exceeds six volts, and if they are used in conjunction with six volt valves, there is a good possibility of the filament being burned out, unless the rheostat has been turned fully "out" before lighting the filaments.

Sometimes a set will cease functioning or will function poorly on the last stage of audio-frequency amplification. This is almost always due to a poor connection in the jack that precedes the last stage or in one of the preceding jacks in other stages. If you have this trouble, look in between the small silver contacts in the jacks, and notice whether or not they close properly when the plug is withdrawn from them. Sometimes the springs weaken and do not allow them to close as they should. The remedy is to take out the jack and bend the offending spring back into position, and then to replace the jack.



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