

Programmes Continued

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- 4.30: Close down.
6.0: Children's hour—Chuckie and Aunt Pat. Stories and songs. Scholars from Marist Brothers' School will also assist.
7.15: News session.
7.30: Talk by Colonel Colquhoun, under the auspices of the Canterbury Progress League, "The Growth of Local Manufacture."
8.0: Chimes and overture.
8.5: Soprano and contralto duet—Madame Gower-Burns and Mrs. Ann Harper, "The Wind and the Rose" (Cesar Franck).
8.9: Flute solo—Mr. W. Hay, "Recitative and Air" (Macfarren).
8.14: Tenor solo—Mr. Harold Prescott, "Elegie" with violin obbligato (Masset).
8.18: Pianoforte solo—Miss Aileen Warren, "Venetienne, Fourth Barcarolle" (Godard).
8.23: Soprano solo—Madame Gower-Burns, "L'Ete" (Chaminade).
8.27: Instrumental trio—Christchurch Broadcasting Trio, "Presto from a Minor Trio" (Lalo).
8.39: Baritone solo—Mr. Bernard Rennell, "Red Rose" from "Monsieur Beaucaire" (Messager).
8.42: Contralto solos—Mrs. Ann Harper, (a) "If Song to Thee" (Godard); (b) "The Silver Ring" (Chaminade).
8.49: Recitation—Miss Maiona Juriss, "In the Days of La Fayette" (Marlin).
8.55: Tenor and baritone duet—Messrs. Harold Prescott and Bernard Rennell, "On Silver Wave" (Chaminade).
8.59: Weather report and forecast.
9.0: Overture.
9.5: Soprano solos—Madame Gower-Burns, (a) "Awake Not Yet" (Godard); (b) "Chanson de Florian" (Godard).
9.12: Flute solo—Mr. W. Hay, "Ascanio" (Air de Ballet), (Saint Saens).
9.17: Tenor solo—Mr. Harold Prescott, "Ritournelle" (Chaminade).
9.21: Pianoforte solo—Miss Aileen Warren, "First Mazurka" (Saint Saens).
9.26: Contralto solo—Mrs. Ann Harper, "Serenade" (Gounod).
9.31: Instrumental trios—Christchurch Broadcasting Trio, (a) "Reverie" (Saint Saens); (b) "La Coquette."
9.42: Baritone solo—Mr. Bernard Rennell, selected.
9.46: Recitation—Miss Maiona Juriss, "The French Peasant."
9.52: Vocal quartet—Madame Gower-Burns, Mrs. Ann Harper, Messrs. Harold Prescott and Bernard Rennell, "La Marseillaise."
God Save the King.

4YA DUNEDIN (463 METRES)—THURSDAY, MAY 3.

- 11.30 a.m.: Relay of Forbury Park trotting meeting (subject to permission being granted).
7 p.m.: Town Hall chimes.
7.1: Request gramophone concert.
7.40: News session.
8.0: Town Hall chimes.
8.1: Light orchestral music from the Octagon Theatre.
8.10: Humorous song—Mr. Billy Gay, "I Never See Maggie Alone" (Lynton).
8.14: Banjo solos—Mr. Jack McNeil, (a) "Hello, Cutie" (Friend); (b) "B. & D. Super March" (Morris).
8.21: Humorous sketch—The Two Blue Ducks, "Current Events in 1950—First Part."
8.30: Light vocal solo—Miss Roma Buss, "Rackety Coo" from "Katinka" (Prini).
8.34: Saxophone solo—Mr. J. McCaw, "Valse Vanity" (Wiedoeft).
8.38: Orchestral interlude from Octagon Theatre.
8.48: Light baritone solos—Mr. Percy James, (a) "After Dark" (Johnston); (b) "Precious" (Whiting).
8.55: Humorous sketch—Miss Billie Lorraine and Mr. Percy James.
9.5: Banjo solo—Mr. Jack McNeil, "When You and I Were Young, Maggie" (Butterfield).
9.8: Light soprano solos—Miss Billie Lorraine, (a) "I've Got the Boy"; (b) "You've Gotta Know How" (Donaldson).
9.15: Humorous address—Pastor W. D. More.
9.30: Saxophone solos—Mr. J. McCaw, (a) "O Sole Mio" (Di Capua); (b) "Ricketty Raffle" (Barroll).
9.37: Light vocal solos—Mr. Billy Gay, (a) "Hello, Swanee, Hello" (Britt); (b) "When the Love Bird Leaves its Nest" (Wade).
9.43: Humorous sketch—Two Blue Ducks, "Current Events in 1950—Part Two."
9.48: Light vocal solos—Miss Roma Buss, (a) "Dancing Time" from "The Cabaret Girl" (Kein); (b) "Memory Lane" from "Betty" (Conrad).
9.54: Orchestral selections from Octagon Theatre.
10.0: Close down.

Friday, May 4

1YA AUCKLAND (323 METRES)—FRIDAY, MAY 4.

- 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 hour—Nod. Pianoforte, Ivy Perry, "Waltz" (Chopin). Trio, three girls, "Smilin' Through." Sketch, Nod, "Three Trees." Letters and birthdays. Pianoforte, Ivy Perry, "Tarantella" (Kellar). Song, Cinderella, "Little Yaller Dog" (Gallatly). Trio, three girls, "My Blue Heaven." Bedtime stories.
7.15: Talk by Mr. Geo. Campbell on "Motoring."
7.30: News and reports.
8.0: Chimes.
8.1: Relay of overture from Rialto Theatre Orchestra, under Mr. Henry Engel.
8.11: Vocal quartet—Madame Mary Towsey's Quartet, "The Rosary" (Nevin).
8.16: Instrumental trio—Bosworth-Hemus-Towsey Trio, "Trio, First Movement" (Chopin).
8.26: Baritone solo—Mr. John Bree, "Song of the Bell" (Oliver).
8.30: Vocal and instrumental—The Internationals, (a) "Broken-hearted" (De Silva); (b) "Saxophone Solo—Valse Erica" (Weidoff).
8.39: Soprano solo—Madame Mary Towsey, "O Mio Fernando" (Donizetti).

ONE-ACT PLAY, "BOBBIE."

- 8.44: Play commences.
Cast:
Agnes Brompton—Miss Irene Day.
Roberta (Bobbie)—Miss Lynda Murphy.

MUCH emphasis has been placed by loudspeaker manufacturers upon widening the range of frequencies or musical notes, which a loudspeaker is able to reproduce. This has been one of the great problems of loudspeaker design. Quite closely tied up with this endeavour has been the desire for the loudspeaker to reproduce signals of greater volume than ever before, due to the use of power tubes and high plate voltages in the last audio stages.

AS an analogy to what takes place at a broadcast station, one can visualise pumping gas into a large tank. When the tank is filled, there will be back pressure if the force of the pump is not greater. The tank must explode or leak fast enough to take care of the increased pressure. That is exactly the case with radio, broadcasting, except that the generators pump electricity into the aerial, the voice vibrations being superimposed on the carrier voltage. When the aerial is filled, it discharges into the air. The frequency of these discharges determines the wave-length of the station—that is, the kilocycles per second. Wave-lengths are measured from the peak of one wave to the peak of the succeeding one.

DO not make the mistake of attaching an earth wire to a gas pipe. That is a violation of insurance and fire laws, and voids a fire insurance policy. The cold water pipe furnishes the best earth, and the set should be so placed as to furnish the most direct line to the pipe. Hot water or steam radiators often make good earths, also. Never connect any radio wires to an electric radiator.

THERE are now nearly 140,000 wireless receiving licenses in the State of Victoria. This is more than the total number of licenses issued in all the Australian States together.

THE United States Government Radio Commission recently announced: "Although the commission has received many complaints of interference caused by stations wandering from their assigned channels, it has been disposed to treat the offenders with leniency, because of the mechanical difficulty of maintaining frequency. With the recent development of devices for transmitter control, and the increased necessity of maximum utilisation of the available wave-lengths, a more drastic policy will be adopted."

FOLLOWING is the record of Mr. W. Robinson, a Wellington listener, residing in the hilly suburb of Brooklyn—New Zealand: 1YA, 12B, 2YA, 3A, 3YC, 4YA, and 2ZF. Australian: 2BL, 2FC, 2GB, 2TR, 2KY, 2UW, 3LO, 3AR, 3UZ, 3DB, 3BY, 4OG, 5CL, 5DN, 5KA, 7ZL, and 7HL. U.S.A.: KPN, KGO, KFD, KYA, KMT, KPO, Japan: JOAK. Philippines: KZRM. India: 7CA. He uses a six-valve (3-volt valves) imported receiving set.

SEE to it that the lead-in from the aerial does not rest on or run closely parallel to a copper roof or any other metal; that it is not shielded by structural steel, or that the aerial is not close to or parallel to overhead tramway wires, or high-tension (high-voltage) lines. These have absorption characteristics, and will not permit one's receiver to get enough energy to operate. They will be a source of considerable noise, too.

BATTERIES (or high-tension) are usually composed of from two or four units of 45 volts each. When the plus of each is connected to the minus of the next unit, the voltages increase in proportion to the voltage of each unit added.

A BROADCAST listener in Shanghai writes to the New York "Radio News":—"At present, there are four broadcast stations in this city, which regale the radio audience with regular 'programmes.' All of them are super-powerful, namely, one one-quarter kilowatt, two one-twentieth-kilowatts, and one two-hundredth kilowatt. The two intermediates have such a perfect system of high-tension supply, and such delicate provisions for adjustment of wave-length, that they give a beautiful mixture of nerve-racking noises, and merrily overlap a score of metres on either side of their channel. While it may be an easy matter for an American BCL to tune out a wee local station of, say, ten to twenty kilowatts' power, and bring in DX, having a difference in wave-length of ten to fifteen metres, it is practically impossible for a Shanghai fan to get over these giants and pull in a DX station twenty or more metres above or below the scale."

TAKING care of a radio receiver is much the same as anything else. One does not go around with the works of his watch exposed. We get enough dust inside with the case tightly closed. Dust in a set decreases its efficiency by gathering on the plates of condensers, varying its capacity. Moisture lowers the efficiency of the set. Always keep your set closed.

THE storage battery is the source of supply for lighting valve filaments, and supplies of six volts—more than enough to light standard 5-volt valves. That is why a variable resistance or rheostats are put on the receiver. Of course, this is not true in receivers which use the new A.C. valves. In this case, transformers have been designed to deliver the proper voltage, and do not need controlling apparatus.

George Phillips—Mr. J. F. Montague.
Grace—Miss Phyllis Torpy.

- 9.3: Weather report and forecast.
9.4: Relay of contr'acte from Rialto Theatre Orchestra, under the direction of Mr. H. Engel.
9.9: Tenor solo—Mr. Reginald Newberry, "Rosebud" (Drummond).
9.13: Cello solo—Miss Lalla Hemus, "Romance" (Gottnerman).
9.17: Contralto solo—Miss Gwyneth Evans, "I Wonder If Love Is a Dream" (Forster).
9.21: Instrumental trio—Bosworth-Hemus-Towsey Trio, "Military March" (Schubert).
9.31: Baritone solo—Mr. John Bree, "The Ringers" (Lohr).
9.35: Recitation—Miss Lynda Murphy, "Slow, Ain't It?"
9.39: Soprano solo—Madame Mary Towsey, "When the Dew Is Falling" (McMurragh).
9.43: Vocal and instrumental—The Internationals, (a) "Charmaine" (Rapee); (b) "Maori Medley"; (c) "Me and My Shadow" (Jolson).
9.52: Contralto solo—Miss G. Evans, "Only the River Running By" (Hopkins).
9.56: Vocal quartet—Madame Mary Towsey's Quartet, "O, Hush, Thee, My Baby" (Sullivan).
10.0: God Save the King.

2YA WELLINGTON (420 METRES)—FRIDAY, MAY 4.

- 3 p.m.: Chimes of the General Post Office clock, Wellington.
3.1: Selected gramophone items.
3.30: Lecturette—Miss Marion Christian, "Gas Cooking."
3.45: Selected gramophone items.
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, "Raymond" (Thomas).
8.11: Quartet—Apollo Singers, "In This Hour" (Pinsuti).
8.15: Tenor solo—Mr. E. W. Robbins, "Love, Could I Only Tell Thee" (Capel).
8.19: Humour—Two Boiled Owls, "More Hoots" (original).
8.25: The Orchestra, (a) "Minuet" (Beethoven); (b) "Valse Blue Danube" (Strauss).
8.32: Contralto solos—Miss Hilda Chudley, (a) "Let Miss Lindy Pass"; (b) "Fuchs's Tree" (Ronald).
8.39: Duet—Mr. E. W. Robbins and Mr. S. E. Rodger, "The Two Beggars" (Lane Wilson).
8.43: Soprano solo—Miss Moana Goodwill, "Dream o' Day Jill" (German).
8.47: The Orchestra—"Ballet Egyptian" (Lafini).
9.0: Weather report.
9.2: Lecturette—Editor-Announcer, "Imperial Affairs."
9.17: The Orchestra, selections from "Rose Marie" (Prini-Stollhart).
9.25: Baritone solo—Mr. S. E. Rodger, "She is Far from the Land" (Lambert).
9.29: Humour—The Two Boiled Owls, "Cheerie, Beerie, Be" (Young); "Pianophon" (Alter).
9.36: The Orchestra—Dance numbers.
9.45: Tenor solos—Mr. E. W. Robbins, (a) "Because" (d'Hardelot); (b) "Waiana Poi" (Alfred Hill).
9.49: Quartet—Apollo Singers, "A Night of Love" (Spier).
9.53: The Orchestra, (a) "In a Bird Store" (Lake); (b) "Independencia March" (Hall).

3YA CHRISTCHURCH (336 METRES)—FRIDAY, MAY 4.

- 3 p.m.: Afternoon concert session—Selected studio items.
4.25: Sports results.
4.30: Close down.
6.0: Children's hour—Aunt Pat and Scatterjoy. Stories, songs, and group of little Brownies to help.
7.15: News session.
7.30: Talk by Mr. Robert Nairn on "Insect-Eating Plants."
8.0: Chimes and overture.
8.5: Vocal quartet—The Melodious Four, "Request" (Franz).
8.9: Violin solo—Miss Irene Morris, "Prize Song" from "The Meistersingers" (Wagner).
8.13: Tenor solos—Mr. Russell Sumner, "The Rogue Marie" (Franz).
8.19: Instrumental trio—Christchurch Broadcasting Trio, "Allegro from F Major Trio" (Reissiger).
8.29: Contralto solo—Miss Belle Renaut, "In Autumn" (Franz).
8.33: Hawaiian, ukulele, and steel guitar trios—Miss Elaine Moody's Hawaiian Trio, (a) "Elegie"; (b) "Cheerie, Beerie, Bee" (Lewis and Wane); (c) "Souvenirs" (Nichols).
8.42: Soprano solo—Miss Frances Hamerton, "Slumber Song" (Franz).
8.45: Accordeon solo—Mr. George Bennett, "Love's Old Sweet Song."
8.50: Bass solos—Mr. T. D. Williams, (a) "Calm at Sea" (Franz); (b) "In the Dreamy Wood I Wander" (Franz).
8.56: Humorous recitation—Mrs. Beryl Windsor, "The Bride's First Call on the Butcher" (Fisk).
9.0: Vocal quartets—The Melodious Four, (a) "For Music" (Franz); (b) "The Rose Complained."
9.5: Weather report and forecast.
9.6: Overture.
9.11: Soprano solos—Miss Frances Hamerton, (a) "Spring's Profusion" (Franz); (b) "Stars With Golden Sandals" (Franz).
9.17: Tenor solos—Mr. Russell Sumner, (a) "Lassie With the Lips So Rosy" (Franz); (b) "As the Moon Her Trembling Image" (Franz).
9.23: Instrumental trios—Christchurch Broadcasting Trio, (a) "Andantino" (Lemare); (b) "Scarfe Dance" (Delibes).
9.33: Contralto solos—Miss Belle Renaut, (a) "Tho' the Roses Now Flourish" (Franz); (b) "Romance" (Franz).
9.39: Hawaiian ukulele and steel guitar trios—Miss Elaine Moody's Hawaiian Trio, (a) "Hanalei Bay" (Alohiaka); (b) "Flower of Hawaii" (Sherwood and Riga); (c) "My Blue Heaven" (Donaldson).
9.48: Bass solo—Mr. T. D. Williams, "Stormy Night" (Franz).
9.51: Violin solo—Miss Irene Morris, "Rondino" (Beethoven-Kreiser).
9.54: Humorous recitation—Mrs. Beryl Windsor, "A Woman in a Shoe Shop" (Fisk).
10.0: Accordeon solos—Mr. George Bennett, (a) "O Where, Tell Me Where" (b) "Annie Laurie."
10.4: Vocal quartet—The Melodious Four, "Dedication" (Franz).
God Save the King.

4YA DUNEDIN (463 METRES)—FRIDAY, MAY 4.

- 3 p.m.: Town Hall chimes.
3.1: His Master's Voice Recital.
3.15: Fashion talk by a representative of the D.I.C.
3.30: Afternoon tea music from the Savoy.
3.45: Studio music.
4.0: Music from the Savoy.
4.15: His Master's Voice Recital.
4.30: Close down.
6.0: Children's hour—Aunt Sheila and Big Brother Bill, assisted by pupils of Miss Noeline Parker. The Happy Folk's Anthem. Recitation, "The King's Breakfast," Joyce Inslip. Song, "Master Dowd Foord, Visitors." Recitation, Miss Honi Davidson, "Bird of Blue." Story-time. Monologue, Lonie Wreathall, "Packing." Recitation, Hazel Ness, "Gossip." Letters and birthdays. Recitation, Jean Kirkham, "If

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