

# Programmes Continued

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- 9.19: Hawaiian duo—Berthold and Bent, (a) "Caring for the Rose" (Sharp); (b) "Novelty Medley" (traditional).  
9.26: Contralto solo—Miss Mabel Dyer, "A Summer Night" (Thomas).  
9.30: Instrumental trio—Studio Trio, (a) "Rosamunde Ballet Music" (Schubert); (b) "Minuet" (Beethoven).  
9.40: Vocal duet—Miss Myra Sawyer and Mr. William Boardman, "None So Pretty" (Brahe).  
9.45: Cornet solos—Mr. T. Goodall, (a) "Scenes that are Brightest"; (b) "Pilgrim of Love."  
9.50: Vocal and novelty piano number—The Two Boiled Owls, (a) "Are You Happy?" (Yellen and Ager); (b) "Breaking the Piano" (James).  
9.57: Tenor solo—Mr. Edgar Swain, "In the Garden of To-morrow" (Depen).  
10.1: Vocal quartet—The Celeste Quartet, "Early One Morning" (Boughton). God Save the King.

## 3YA CHRISTCHURCH (306 METRES)—FRIDAY, APRIL 27.

- 3 p.m.: Afternoon concert session—Selected studio items.  
6.0: Children's hour—Big Brother, Peterkin, and Aunt Pat.  
7.15: News session.  
8.0: Chimes and overture.  
Miss Frances Hamerton's Melodious Four will present musical comedy excerpts.  
8.5: Vocal quartet—The Melodious Four, "Arcadians Are We" (Monckton and Talbot).  
Soprano solo—Miss Frances Hamerton, "The Pipes of Pan" (Monckton and Talbot).  
8.12: Instrumental trio—Christchurch Broadcasting Trio, "Trio, Andante and Presto" (Reissiger).  
8.22: Tenor solo and chorus—Mr. Russell Sumner and the Melodious Four, "Back Your Fancy" (Monckton and Talbot).  
8.26: Humorous recitation—Mr. W. H. Moses, "The Trial of Wing Fat."  
8.30: Bass solo with chorus—Mr. T. D. Williams, "Fickle Fortune" (Monckton and Talbot).  
2.34: Instrumental trios—Christchurch Broadcasting Trio, (a) "Old Irish Air" (Kreisler); (b) "Polacca" (Thomas).  
8.44: Vocal quartet—The Melodious Four, "The Joy of Life" (Monckton and Talbot).  
Tenor solo—Mr. Russell Sumner, "I Like London" (Monckton and Talbot).  
8.52: Banjo band—Beresford Banjo Band, (a) "Minstrel Melodies"; (b) "Fun and Frolic" (Dare).  
9.0: Weather report and forecast.  
9.5: Overture.  
9.10: Contralto solo and chorus—Miss Belle Renaut, "Bring me a Rose" (Monckton and Talbot).  
9.14: Humorous recitations—Mr. W. H. Moses, (a) "The Private of the Buffs" (Hamilton); (b) "A Tamboreroa."  
9.18: Banjo band—Beresford Banjo Band, (a) "What Good Is Good Morning" (Santly); (b) "Minstrel Melodies" (Darc).  
9.28: Vocal quartet—The Melodious Four, "To All and Each" (Monckton and Talbot).  
9.32: Bass solo—Mr. T. D. Williams, "My Motter."  
9.36: Banjo band—Beresford Banjo Band, (a) "Merry-Go-Round" (Folkstone); (b) "Bonnie Scotland" (Kennedy).  
9.46: Contralto solo—Miss Belle Renaut, "Bring Me a Rose" (Monckton and Talbot).  
9.50: Soprano solo—Miss Frances Hamerton, "Light Is My Heart" (Monckton and Talbot).  
Vocal quartet—The Melodious Four, "All Down Piccadilly" (Monckton and Talbot).  
God Save the King.

## 4YA DUNEDIN (463 METRES)—FRIDAY, APRIL 27.

- 3 p.m.: Town Hall chimes.  
3.1: His Master's Voice recital.  
3.15: Afternoon tea music from the Savoy.  
3.30: Studio music.  
4.0: Music from the Savoy.  
4.15: His Master's Voice recital.  
4.30: Close down.  
6.0: Town Hall chimes.  
6.1: Children's session, conducted by Aunt Sheila and Big Brother Bill.  
7.15: News session.  
7.30: A review of the latest books, by Mr. H. Greenwood, librarian of the Dunedin Athenaeum.  
8.0: Town Hall chimes.  
8.1: Contralto solos—Miss Irene Hornblow, L.R.A.M., (a) "On the Sea" (Franz); (b) "When the Rooks Fly Homeward" (Rowley).  
8.6: Recital—Miss Sheila Neilson, "Sigrid the Haughty" (Tennyson).  
8.11: Bass solo—Mr. J. B. Macpherson, "Prologue" from "Pagliacci" (Leoncavallo).  
8.16: Pianoforte solos—Miss Aroha D. Allan, L.T.C.J., (a) "Valse Lente" (Merikanto); (b) "Venetian Romance" (Brand).  
8.24: Vocal duet—Messrs. L. E. Dalley and J. B. Macpherson, "Watchman, What of the Night?" (Sargeant).  
8.29: Soprano solos—Miss Florence Sumner, (a) "That Hour With You" (Tate); (b) "Spring Sorrow" (Ireland).  
8.35: Orchestral selection.  
8.40: Tenor solos—Mr. L. E. Dalley, (a) "All Hail, Thou Dwelling" (Gounod); (b) "The Star of Bethlehem" (Adams).  
8.49: Recitations—Miss Seila Neilson, (a) "The Busy Woman" (Fisk); (b) "The Pipes o' Doon" (Farren).  
8.59: Weather report and forecast.  
9.1: Contralto solo—Miss Irene Hornblow, "Cloths of Heaven" (Dunhill).  
9.5: Bass solo—Mr. J. B. Macpherson, "Love That's True" (Handel).  
9.9: Pianoforte solo—Miss Aroha D. Allan, "Arabesque" (Newlands).  
9.16: Soprano solo—Miss Florence Sumner, "Rejoice Greatly" (Handel).  
9.21: Tenor solos—Mr. L. E. Dalley, (a) "The Fuchsia Tree" (Quilter); (b) "For You Alone" (Gheel).  
9.25: Relay of dance music.  
10.0: God Save the King.

## Saturday, April 28

### 1YA AUCKLAND (333 METRES)—SATURDAY, APRIL 28.

- 2.45 p.m.: Description of Rugby football from Eden Park (subject to competitions being commenced on this date).  
6.0: Children's hour—Cinderella.  
7.15: News and reports, sports results.  
8.0: Chimes.  
8.1: Relay of overture from Rialto Theatre Orchestra, under the direction of Mr. Henry Engel.  
8.15: Vocal quartet—The Lyric Four, (a) "A Sailor's Chorus" (Dandy); (b) "Lovely Night" (Chatgual).  
8.22: Tenor solo—Mr. Herbert Richards, "My Dreams" (Tosti).  
8.26: Vocal and instrumental—The Bohemian Trio, (a) "Since I Found You" (Berlin); (b) "High, High Up in the Hills" (Abrahams).  
8.34: Humorous—Mr. Alan McElwain, some humour.  
8.39: Bass solo—Mr. Ernest Thomas, "Myself When Young" (Lehmann).  
8.44: Relay of entr'acte from Rialto Theatre Orchestra, under the direction of Mr. Henry Engel.  
8.54: Vocal quartet—The Lyric Four, "But She Didn't!" (Michall).  
8.58: Weather report and forecast.  
9.0: Vocal duet—Messrs. Thomas and Richards, "Watchman, What of the Night?" (Sargeant).  
9.5: Tenor solo—Mr. Arthur Ripley, "Molly, Dear" (Lowe).  
9.9: Vocal and instrumental—The Bohemian Trio, (a) "Yesterday" (Wilwhite); (b) "Annabelle Lee" (Allan).  
9.17: Vocal quartet—The Lyric Four, "Plantation Melodies."  
9.22: 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, APRIL 28.

- 11.30 a.m.: Description of Wellington Trotting Club's meeting at Hutt Park (by permission of the club).  
3 p.m.: Description of Rugby football from Athletic Park.  
6.0: Children's hour.

THE well-known phenomenon of "body capacity," which every builder of a radio set has encountered, may be employed for the purpose of detecting the intrusion of a human being into the neighbourhood of radio apparatus; but it is not necessary that any of the instruments should be in the immediate vicinity of a safe which it is desired to guard. It is necessary only to have a wire running to the safe, and another to the ground; or any large insulated sheet of metal may be used to create an electric "atmosphere," which cannot be entered without upsetting the balance of the system and giving an electric signal—which will operate a relay and set off bells or an electric siren, turn on lights, or otherwise give warning as desired by its constructor.

The radio burglar alarm "sees in the dark," so to speak; it is much less expensive than the complicated maze of wires now used for electric protection systems; and it transmits its warning to the guards, watchmen and police, who will answer its summons, without apprising the intruder of his danger until it is too late.

A CORRESPONDENT writes to the New York "Radio News": "With reference to the recent catastrophe, the loss of Mrs. Frances Grayson and companions in her transatlantic plane, 'Dawn,' I would appreciate it if you would publish in your excellent magazine, a suggestion to future transatlantic fliers, and the general public, regarding the danger of inadequate radio equipment, heretofore used on transatlantic flights, and lack of trained radio men, which is partly responsible for the complete disappearance of several planes and their occupants."

ONE of the most rigorous tests to which a loudspeaker has ever been subjected was recently performed in New York City by engineers of the Bell Telephone Laboratories, when they installed a giant speaker on the roof of a thirteen-story building on the New York side of the Hudson River for direct communication with the Jersey shore, which is over a mile distant. Engineers on the opposite side of the water heard both music and voice reproduced with enormous volume, but without distortion. The horns used were of the new "exponential" type.

THE "SOS" has more than once of late called shipping to the assistance of aviators; the compliment was returned in the English Channel not long ago, when the pilot of a London-Paris aerial express observed that a small steamer below him was on fire. He at once used his transmitter to notify Croydon, England, which broadcast the alarm. It was picked up at Boulogne, France, from which port a tug at once put out, rendered timely aid, and towed the distressed vessel with her crew of fifteen safely into port.

IT is often difficult to locate holes for mounting condensers and other instruments without a template. A very simple way of doing this is as follows: The shaft hole is located first, and drilled. The condenser or other instrument is then placed on the panel with the shaft through the hole, and the condenser resting on the panel in the exact position in which you wish to mount it. A little white flour is sprinkled on the panel around the instrument, and the instrument is then removed. This leaves circles of flour around the bushings. The centre of each circle is marked with a centre punch, and drilled. It will be found that holes so drilled line up perfectly.

THE guests' rooms in the Robert Morris Hotel, Philadelphia, are fitted with headphones, which, by a system of switches, enables the occupants to select from three different programmes, as there are three receiving sets operated in a central room.

WHO is the world's champion broadcast listener? That is to say, what broadcast listener has tuned in the largest number of broadcast stations? William McDonald, of Chula Vista, California, U.S.A., has a record of hearing 603 different broadcast stations. His performance appears to be the best authenticated.

Approximately one out of every five farmers in the United States relies on broadcast market reports and agricultural information, according to the United States Secretary of Agriculture.

Science has turned a curious eye on the effect of the northern lights on radio transmission, and first steps have been taken by the National Research Council of Canada to determine just what is the effect. Following a meeting held in Ontario of the Associated Committee on Physics and Engineering of the Council, research work has been undertaken. It is known that conditions in the upper atmosphere have a very marked effect upon the transmission of messages by radio.

A statement published to the effect that a new 50 kw. German short-wave transmitter is already in operation at Zeelen is denied by the Berlin authorities. Apparently, the station heard is the experimental transmitter at Doberitz, which is working on 37.8 metres, and gives the call-sign AFK. The Doberitz transmitter has an energy of about 5kw.

- 7.0: News session, market reports, and sports results.  
7.40: Lecture—Miss Phyllis Bates, "Yale Blues."  
8.0: Chimes of the General Post Office clock, Wellington.  
8.1: Overture—"Charterhouse March" (Moore).  
8.5: Vocal quartet—Melodie Four, "The Trumpeter" (Dix).  
8.9: Banjo—Mr. Chas. Brazier, "Side by Side" (Wood).  
8.14: Tenor solo—Mr. Sam. Duncan, "I'll Sing Thee Songs of Araby" (Clay).  
8.18: Instrumental trio—Symons-Billwood-Short Trio, "Finale from Trio No. 3" (Reissiger).  
8.28: Bass solo—Mr. W. W. Marshall, "I Go to Claim My Love" (Royal).  
8.32: Xylophone solo—Mr. Tasman Lovell, "The Whistler and His Dog" (Pryor).  
8.37: Vocal quartet—Melodie Four, "Blue Skies" (Berlin, arr. Frank Crowther).  
8.42: Banjo—Mr. Chas. Brazier, "Red Lips, Kiss My Blues Away" (Berlin, arr. Crowther).  
8.45: Tenor solo—Mr. Frank Bryant, "Linden Lea" (Williams).  
8.49: Instrumental—Studio Trio, (a) "Minuet" (Shield-Moffatt); (b) "Serenade" (Widor); (c) "Rondo" (Mozart).  
8.59: Baritone solo—Mr. R. S. Allwright, "Rolling Down to Rio" (German).  
9.3: Xylophone solo—Mr. Tasman Lovell, (a) "I Love the Moon" (Reubens); (b) "Falling" (Fields).  
9.9: Vocal quartet—Melodie Four, "Comrades in Arms" (Adam).  
Weather report and forecast.  
9.13: Relay of Charles Dalton's Columbian Solo Six Dance Orchestra from Columbian Cabaret, Kibbirnie.  
11.0: God Save the King.

## 3YA CHRISTCHURCH (306 METRES)—SATURDAY, APRIL 28.

- 6 p.m.: Children's hour—Uncle Sam and Aunt May.  
7.15: News session.  
8.0: Chimes and overture.  
8.15: Soprano solo—Miss Mabel Thomas, "Waltz Song" from "Tom Jones" (German).  
8.19: Banjo solos—Mr. Gordon Jackson, (a) "That Night in Araby" (Snyder); (b) "Just a Cottage Small" (Hanley).  
8.25: Tenor solo—Mr. David McGill, "O, Vision Entrancing" (Thomas).  
8.29: Mouth-organ solos—Mr. A. Elwood, popular melodies.  
8.34: Popular harmony duets—Messrs. Alfred Lovett and Charles Lawrence, (a) "My Lucky Day" (Henderson); (b) "Hop, Step, and Jump" (Courtney).  
8.40: Instrumental trio—Christchurch Broadcasting Trio, "Prestor from Trio in E Flat" (Hummel).  
8.50: Popular songs—Mrs. P. S. Lawrence, (a) "My Love Pals" (Vandersloot); (b) "Dream Days" (Simpson).  
8.56: Clarinet solo—Mr. S. E. Munday, "In Cellar Cool" (Kroepsch).  
9.0: Humorous recitation—Mr. James Laurensen, "Casey at the Football Match."  
9.5: Soprano and tenor duet—Miss Mabel Thomas and Mr. David McGill, "Whisper and I Shall Hear" (Piccolomini).  
9.9: Weather report and forecast.  
9.10: Overture.  
9.25: Popular harmony duet—Mrs. P. S. Lawrence and Chas. Lawrence, "I Wish You Were Jealous of Me" (Rowell).  
9.29: Banjo solos—Mr. Gordon Jackson, (a) "Pal of My Cradle Days" (Piantadosi); (b) "The Birth of the Blues" (Henderson).  
9.35: Operatic tenor solo—Mr. David McGill, "There is a Flower that Blooms" from "Maritana" (Wallace).  
9.39: Mouth-organ solos—Mr. A. Elwood, popular melodies.  
9.44: Popular duets—Messrs. Alfred Lovett and Charles Lawrence, (a) "Kulua" (Kern); (b) "Sleepy Hills" (Berlin).  
9.50: Soprano solo—Miss Mabel Thomas, "A Request" (Woodford-Finden).  
9.54: Instrumental trios—Christchurch Broadcasting Trio, (a) "O, Star of Eve" (Wagner); (b) "Hungarian Dance in G Minor" (Brahms).  
10.4: Popular songs—Mrs. P. S. Lawrence, (a) "Starlight Lane" (Vandersloot); (b) "Just a Memory" (Henderson).  
10.10: Clarinet solo—Mr. S. E. Munday, "Regrets d'Amour" (Bright).  
10.14: Humorous recitation—Mr. James Laurensen, "Daniel Peggotty" (adapted from "David Copperfield" (Dickens).  
10.19: Soprano and tenor duet—Miss Mabel Thomas and Mr. David McGill, "O, Maritana" from "Maritana" (Wallace).  
10.23: Dance music.  
11.0: God Save the King.

## 4YA DUNEDIN (463 METRES)—SATURDAY, APRIL 28.

- 7.15 p.m.: News session.  
7.30: Address, under the auspices of the Workers' Educational Associations—Miss M. H. King, principal of Otago Girls' High School, on "The Study of Literature."  
8.0: Town Hall chimes.  
8.1: Orchestral musical, relayed from the Empire Theatre.  
8.11: Soprano solo—Miss Roma Buss, "Scenes That Are Brightest" from "Maritana" (Wallace).  
8.16: Violin solo—Mr. A. R. Watson, "Schifferlied" (Hanser).  
8.20: Vocal quartet—4YA Harmonists, "Soldiers' Chorus" from "Faust" (Gounod).  
8.26: Cornet solos—Mr. George Christie, (a) "The Firefly" (Moss); (b) "Silver Threads Amongst the Gold" (Moss).  
(Continued on page 14.)

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