

Programmes Continued

— Copyright —
These programmes are copyright, but individual daily programmes may be published on day of performance.

- 7.30: Address on "Recent Tour of New Zealand Cricketers in Great Britain," by Mr. R. C. Blunt.
8.0: Town Hall chimes. Tenor solos—Mr. Les. Dalley, (a) "Who is Sylvia" (Schubert); (b) "I Know of Two Bright Eyes" (Clutsam).
8.8: Recital—Miss Sheila Neilson, "Her Shoe."
8.12: Soprano solo—Miss Roma Buss, "Nightingale of June" (Sanderson).
8.16: Pianoforte solo—Mrs. W. Munro, "Sonata, Op. 31, First Movement" (Beethoven).
8.21: Bass solos—Mr. J. B. Macpherson, (a) "The Two Grenadiers" (Schubert); (b) "The Song of the Bow" (Aylward).
8.28: Monologue—Miss Sheila Neilson, "Twenty Gallons of Sleep."
8.34: Contralto solos—Miss Flora Williamson, (a) "Five Little Piccaninnies" (Anthony); (b) "Salaam" (Lang).
8.40: Pianoforte solo—Mrs. W. Munro, "Valse Brillante in E Flat" (Chopin).
8.46: Soprano solos—Miss Roma Buss, (a) "A Spirit Flower" (Stanton); (b) "Cradle Song" (Schubert).
8.53: Humorous recital—Miss Sheila Neilson, "My Day Out."
9.0: Tenor solo—Mr. Les. Dalley, "Flower Song" from "Carmen" (Bizet).
9.5: Pianoforte solo—Mrs. W. Munro, "Liebeslied" (Liszt).
9.10: Contralto solo—Miss Flora Williamson, "My Dear Soul" (Sanderson).
9.15: Bass solo—Mr. J. B. Macpherson, "Captain Mac" (Sanderson).
9.20: Dance music, relayed from the Savoy.
10.0: Close down.

Saturday, January 14th

1YA AUCKLAND (333 METRES)—SATURDAY, JANUARY 14.

- 3 p.m.: Afternoon session—Selected Studio items.
7.15: News and sports results.
8.0: Chimes.
8.1: Relay of municipal organ recital from Town Hall. Organist, Mr. Maughan Barnett.
9.30: Relay of dance music from Dixieland Cabaret, by The Internationals, under Mr. Clyde Howley.
11.0: A thought.
11.2: Close down.

2YA WELLINGTON (420 METRES)—SATURDAY, JANUARY 14.

- 3 p.m.: Chimes of the General Post Office clock, Wellington.
3.1: Selected gramophone items.
5.0: Close down.
6.0: Children's hour—Aunties Dot and Gwen. Piano duet, cousins, (a) "A Quiet Walk," (b) "Chattering." Recitations, Cousin Beryl, (a) "The Birth of the Opal," (b) "Peach Pies." Aunties Gwen and Dot send birthday greetings. Piano, cousin, "Allemande" (Williams). Song, cousin, "Snowflakes" (Cowen). Recitations, Cousin Maisie, (a) "Pa's Soft Spot," (b) "Tired Mothers." Songs, Cousin Lily, (a) "Fairly Bells" (Test), (b) "God's Best Gift of All" (Sweeney). Piano, cousin, (a) "Valse Poem" (Swinstead), (b) "Reflections" (Swinstead). Gramophone selection and story.
7.0: News session, market reports, and sports results.
8.0: Chimes of the General Post Office clock, Wellington.
8.1: Overture, "Valse Bleue" (Margis).
8.5: Quartet—Melodie Four, "Cornfields Medley" (arr. Holloway).
8.9: Tenor solo—Mr. C. A. Williams, "O, Mistress Mine" (Quilter).
8.13: Instrumental trio—Symons-Ellwood-Short Trio, "Allegro and Andante Trio, No. 3" (Gurlitt).
8.23: Baritone solo—Mr. R. S. Allwright, "The Village Blacksmith" (Bishop).
8.27: Quartet—Melodie Four, "Honolulu Moon" (Lawrence).
8.32: Tenor solos—Mr. F. Bryant, (a) "The Lilac Tree" (Gardian); (b) "Because I Were Shy" (M.S.).
8.36: Instrumental trio—Symons-Ellwood-Short Trio, "Finale Trio, No. 3" (Gurlitt).
8.46: Bass solo—Mr. W. W. Marshall, "Down West Norfolk Way" (Ewing).
8.51: Quartet—Melodie Four, "Doan You Cry, Ma Honey" (Noll).
8.56: Relay of evening performance of Wirth's Circus.

3YA CHRISTCHURCH (306 METRES)—SATURDAY, JANUARY 14.

- 6 p.m.: Children's hour—Uncle Sam and Aunt May. Bed-time stories, songs, and birthday greetings.
7.15: News and reports.
7.30: Sports results.
8.0: Chimes. Relay of orchestral selections from Liberty Picture Theatre Orchestra, under the direction of Mr. Ernest Jamieson.
8.15: Contralto solo—Miss Grace Lomas, "Laugh and Sing" (Drummond).
8.18: Recital—Mr. H. Instone, "The Sporan of Sandy McGlashin."
8.23: Soprano and tenor duet—Miss Mabel Thomas and Mr. David McGill, "Caro Parigi" from "La Traviata" (Verdi).
8.27: Instrumental trio—Christchurch Broadcasting Trio, "Adagio Scherzando" from "Trio, Op. 181" (Gurlitt).
8.33: Baritone solo—Mr. Charles Lawrence, "Kentucky's Way of Saying Good Morning."
8.37: Banjo and mandolin duet—Messrs. Perce Skinner and Stan. Birch, "Colonel Bogey March" (Alford).
8.41: Soprano solo—Miss Mabel Thomas, "Caro Nome" from "Rigoletto" (Verdi).
8.46: Pianoforte novelties—Mr. Ivan Perrin, "Rigoletto" (extemporisations, fox-trot versions), (own arrangement).
8.51: Tenor solo—Mr. David McGill, "I Heard You Singing" (Coates).
8.53: Contralto solos—Miss Grace Lomas, (a) "Smilin' Through" (Penn); (b) "Keep on Hopin'" (Maxwell).
9.0: Weather forecast.
9.1: Relay of orchestral selections from Liberty Theatre.
9.15: Baritone solos—Mr. Charles Lawrence, (a) "Doll Dance"; (b) "N'er Do Well."
9.22: Instrumental trios—Christchurch Broadcasting Trio, (a) "Chant Sans Paroles" (Tchaikowsky); (b) "Love Song" (Cadman); (c) "Pou-see Valse" (Poldini).
9.31: Soprano and tenor duet—Miss Mabel Thomas and Mr. David McGill, "My Heart is Torn With Grief and Repentance" from "Faust" (Gounod).
9.36: Banjo and mandolin duet—Messrs. Perce Skinner and Stan. Birch, "Scottish Airs."
9.42: Recital—Mr. H. Instone, "Kicking Strap's Race" (a parody on "Kissing Cup's Race"), (Wood).
9.47: Instrumental trios—Christchurch Broadcasting Trio, (a) "Characteristic Polka" (Bendel); (b) "Negro Serenade" (Clough-Leigher); (c) "Menuetto" (Borronson).
10.0: Soprano solo—Miss Mabel Thomas, "Sylvain" (Sinding).
10.4: Pianoforte novelties—Mr. Ivan Perrin, (a) extemporisations on "Me and My Shadow"; (b) "Nice and Nifty"; (c) musical switches on popular airs.
10.19: Tenor solo—Mr. David McGill, "Enough" (Samuels).
10.23: Relay of dance music from Caledonian Hall (by permission of Canterbury Caledonian Society and Mr. Reg. Stillwell). Orchestra under the direction of Mr. Jackson.

4YA DUNEDIN (463 METRES)—SATURDAY, JANUARY 14.

- 7.15 p.m.: News and reports.
7.30: Address on "Interior Decoration," by Miss Marguerite Puechegud.
8.0: Town Hall chimes.
8.1: Relay of orchestral music from the Empire Theatre Orchestra, under the direction of Mr. Chas. Parnell.
8.11: Contralto solos—Miss Irene Hornblow, (a) "May Night" (Brahms); (b) "Sandyman" (Brahms).
8.18: Flute solos—Mr. Chas. E. Gibbons, (a) "Domhnall" (Moore); (b) "The Black Joke" (Moore).
8.25: Tenor solo—Mr. R. A. Mitchell, "Eleanore" (Coleridge-Taylor).
8.29: Cornet solo—Mr. George Christie, "Good-bye" (Tosti).
8.33: Violin solo—Mr. A. Watson, "Lament" from "Dido and Aeneas" (Purcell).
8.38: Soprano solos—Miss Florence Sumner, (a) "Ave Maria" (Kahn); (b) "Sing, Sing, Blackbird" (Phillips).
8.44: Orchestral music, relayed from the Empire Theatre.
8.54: Baritone solo—Mr. Arthur Lungley, "When the Sergeant-Major's on Parade" (Longstaffe).
8.59: Flute solo—Mr. Chas. E. Gibbons, "The Whirlwind" (Krantz).
9.5: Contralto solo—Miss Irene Hornblow, "The Blacksmith" (Brahms).
9.9: Violin solo—Mr. A. Watson, "Hindu Song" (Rimsky-Korsakov).
9.13: Cornet solo—Mr. George Christie, "La Fozza Del Desbises" (Verdi).
9.25: Tenor solos—Mr. R. A. Mitchell, (a) "Like Stars Above" (Squire); (b) "Break, Break, Break" (Carey).

A very convenient help for keeping a soldering iron tinned at all times is found in the use of a block of sal-ammoniac, which may be procured at any chemist's shop. The sal-ammoniac has the ability of removing oxidation forming on the soldering iron tip. In fact a soldering iron rubbed on the sal-ammoniac block will tin much easier. Sal-ammoniac does not deteriorate with heat, a small piece will ordinarily last for a considerable length of time.

Cabled connections for the radio battery leads are excellent. In fact, a number of factory built sets are regularly equipped with them. If, however, you have a set that is fitted with binding posts and you want to use a battery cable, be sure to connect the wires to the binding posts of the set before you connect the other end of the cable to the batteries. By doing the job in this way, you will avoid a chance of a short circuit that may burn up the wires or discharge the B-battery. In fact, it is best to connect the battery last and disconnect it first no matter what kind of wire you use.

When you are using a valve of the 201A type, you will find that distant weak signals come in with greatest volume if you use a grid leak of very high resistance. From five to nine megohms is about right if you want to get the last mile of distance. On the other hand, a high resistance grid leak is not so good on powerful local signals. Distortion spoils the quality as soon as the volume approaches even a medium high level. For best results on powerful local signals, use a grid leak of about one half megohm. The detector valve will stand a lot more volume without overloading.



MR. J. N. CALDWELL.

A recent arrival from Scotland, Mr. Caldwell is the happy possessor of a fine bass voice, and has already been heard on the concert platform. Mr. Caldwell's voice is powerful, of wide range, and fine quality.

The home constructor is often confronted with the difficulty of straightening a number of short pieces of bus-wire which have a slight twist or bend along their length. A valuable adjunct to the experimenter's kit of tools is two blocks of hardwood cut to about 1 in. by 1 in. in size. The one block is placed upon a flat surface and the wire to be straightened out laid upon its upper face. The second block is then placed on top of the wire and considerable pressure is brought to bear, while a reciprocating motion, to roll the wire between the two blocks, is applied at the same time. A few strokes will usually suffice. It is even possible to remove right angle bends from bus-wire if the bend is first partially removed with a pair of pliers.

A man who presents a five-valve receiving set to a school or other institution where it is needed, or who even sets it up for an evening now and then and brings in some of the important broadcasts, is a real philanthropist. The tremendous opportunities offered by radio are being lost in scores of New Zealand schools for the lack of someone to demonstrate how easily radio service can be established and maintained.

The more valves there are in a radio set, the greater the chance for trouble due to various kinds of howls and squeals. Most irritating of these is the moaning howl caused when air vibrations from the loudspeaker strike back at the valves in the radio set. The glass of the valve is set into vibration in time with the air waves, and the trembling of the glass shakes the elements inside the valve. As a result, electrical vibrations are set up to reinforce the original squeal until it becomes a terrific howl. Anything that will act as a damper and prevent the glass of the valve from taking up such vibrations will cure this howl. A lead, or rubber cap resting on top of the valve will stop the vibrations. If you haven't facilities to mould lead caps to fit the tops of your valves, the same result can be attained by cutting a cross out of heavy sheet lead and bending the ends of the cross down around the sides of the valve.

A recent issue of the United States Government Department of Commerce Reports states:

- 9.31: Flute solo—Mr. Chas. E. Gibbons, "La Traviata" (Verdi).
9.41: Soprano solo—Miss Florence Sumner, "The Dream Flower Tree" (Drummond).
9.45: Violin solo—Mr. A. Watson, "Polonaise" (Bohm).
9.49: Baritone solos—Mr. Arthur Lungley, (a) "Open Thy Blue Eye" (Masenet); (b) "Sleep and the Roses" (Tate).
9.55: Cornet solo—Mr. George Christie, "Nearer My God to Thee" (Carey).
10.0: God Save the King.

Sunday, January 15th

1YA AUCKLAND (333 METRES)—SUNDAY, JANUARY 15.

- 6.55 p.m.: Relay of church service from Church of Christ. Preacher, Mr. Aldridge; organist, Mr. I. Lambert.
8.30: Relay of Municipal Band concert from Town Hall (Conductor, Mr. Christopher Smith).
9.30: A thought.
9.32: Close down.

2YA WELLINGTON (420 METRES)—SUNDAY, JANUARY 15.

- 6 p.m.: Children's session—Uncle Ernest.
6.55: Relay—Evening service from St. Andrew's Presbyterian Church. Preacher, Rev. R. J. Howie; organist and choral director, Mr. Frank Thomas.
8.30 (approx.): Studio concert.
Vocal quartet—Celeste Quartet, "As Torrents in Summer" (Elgar). (Lohr).
Soprano solo—Miss Myra Sawyer, "God's Garden" (Lambert).
Instrumental quartet—Symons-Ellwood String Quartet, "Allegro" from "Trio in F Major" (Beethoven).
Vocal trio—Celeste Trio, "The Wreath" (Mazzinghi).
Contralto solo—Miss Mabel Dyer, "Abide With Me" (Liddle).
Tenor solo—Mr. Edgar Swain, "Ombra mai Fu" (Handel).
Symons-Ellwood String Quartet—"Adagio" from "Trio in F Major" (Beethoven).
Bass solo—Mr. Wm. Boardman, "Though Faithless Men" (Halevy).
Symons-Ellwood—Celeste Quartet, "As Torrents in Summer" (Elgar).
Vocal quartet—Celeste Quartet, "As Torrents in Summer" (Elgar).

3YA CHRISTCHURCH (306 METRES)—SUNDAY, JANUARY 15.

- 5.45 p.m.: Children's song service, by Uncle Sam.
7.0: Relay of evening service from Oxford Terrace Baptist Church. Preacher, Rev. S. Lawry; organist, Mr. Melville Lawry; conductor, Mr. V. C. Peters.
After service, a Studio concert will be given from 3YA.

4Y DUNEDIN (463 METRES)—SUNDAY, JANUARY 15.

- 5.45 p.m.: Children's song service by Big Brother Bill and Anglican Choristers from St. Paul's Cathedral.
7.0: Relay of evening service from First Church of Otago. Preacher, Rev. D. McCosh, M.A.
8.10: Relay from St. Kilda Band rotunda (weather permitting) of concert by the St. Kilda Band, conducted by Mr. James Dixon.

"FEED-BACK" EFFECT

IMPORTANT FOR AMPLIFICATION.

"Regeneration" or "reaction" is a sure cause of interference with neighbouring listeners if the oscillations it sets up is permitted to feed back, unrestricted, to the aerial. An American authority says:

"A very important type of amplification is known as regeneration. Here the valve detects a signal, and also amplifies it at the same time. The method of doing this is to couple the output circuit of the valve back to the grid through some type of coupling circuit. The coupling may be a tuned radio-frequency transformer (the 'tickler' combination is actually an arrangement of this sort), or a coupling condenser may be used; in another common circuit the internal capacity of the valve furnishes the coupling, and, instead of varying the coupling, as in the other methods, the circuit is controlled by tuning the plate circuit, either by a variometer or by a fixed coil shunted by a variable condenser.

Regeneration and Oscillations.

In any regenerative system, electrical or otherwise, if the amplified energy returned to the input circuit is equal to the losses in that circuit, the system will act as a generator of oscillations, provided there is some resonant element in the circuit to cause the oscillations to take place at a definite frequency. Thus, with a regenerative detector, if the coupling is made too close, the set becomes a steady generator of oscillations. This may or may not be desirable; a station may be found much more readily when the set is oscillating, by listening for the pronounced whistling. But reception is likely to be distorted under this condition, unless extreme care is taken in tuning. Also, if the set is of a type in which the grid circuit is closely coupled to the aerial, the set will radiate at the frequency to which it is tuned, disturbing other listeners nearby.

Regeneration—that is the feeding of energy back from the plate to the grid circuit—occurs in practically all valve circuits. Accordingly its effects must be expected and allowed for, especially

MUSIC COPYRIGHT

AMERICAN COURT'S DECISION.

Many people cannot understand why the broadcasting of music can be held to be an infringement of the copyright. It is of interest to recall that away back in June, 1924, an American Judge held that broadcasting was not an infringement of copyright.

A newspaper report at the time stated: "Holding that the present copyright statute does not cover the broadcasting by radio of copyrighted music, Judge Smith Hickenlooper, in the United States District Court at Cincinnati, dismissed a suit filed by Jerome H. Remick and Co., Inc., New York City, publishers, against the Crosley Radio Corporation in which the plaintiffs attempted to compel the Crosley Corporation to pay a special tax for permission to play copyrighted music."

"The high point in the opinion handed down by Judge Hickenlooper is the holding that the broadcasting of a rendition of a copyrighted musical composition is not a 'public performance for profit' within the meaning of the music copyright law, for the reason that to constitute a public performance in the sense Congress intended the words it is essential that there be an assemblage of persons congregated at the place of amusement for the purpose of hearing that which transpires there."

"Judge Hickenlooper says radio broadcasting of a copyrighted musical composition is no more an infringement of the copyright than is the perforated music roll, which, under the decision in the case of the White-Smith Company v. Apollo Company, was held not to be a copy of a musical composition within the protection of the Copyright Act. He dismissed the Remick petition on the grounds that the facts stated did not establish cause for action."

in radio-frequency circuits. A neutralising condenser in the ordinary neutrodyne circuit, and Browning-Drake circuit prevents radiation from the aerial.

Make This a Radio Year

Give the gift that entertains the whole family.

The RADIOLA 20 is the aristocrat in Radio.—It is the greatest 5-valve set in New Zealand to-day.

Ask the man who owns one.

Use RADIOTRONS and eliminate valve trouble. They are the best valves in the world.

TURNERS FOR RADIOLAS

34 WILLIS STREET

WELLINGTON.