

Programmes Continued

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- 7.0: News session, market reports and sports results.
 8.0: Chimes of the G.P.O. clock.
 8.1: March—Central Mission Band, "Kneller Hall" (Greenwood).
 8.6: Vocal quartet—The Warblers, "In a Gondola" (Linders).
 8.11: Cornet solo—Bandsman V. McPherson, "Alas, Those Chimes" (Round).
 8.17: Bass solo—Mr. Thomas C. Wood, "For the Green" (Lohr).
 8.22: Humoresque—Central Mission Band, "A Trip to Blackpool" (Raymond).
 8.31: Tenor solo—Mr. Stewart Nelson, "Serenata" (Toselli).
 8.35: Bass quartet—Bandsmen V. McPherson, L. Baker, H. Smith and W. Baker, "Scotia" (Round).
 8.41: Tenor and quartet—Mr. Ernest Elliott and The Warblers, "The Night of Love" (Spier).
 8.46: March—Central Mission Band, "The Boomerang" (White).
 8.52: Baritone solo—Mr. Harry Matthew, "The Garden of Your Heart" (Dorel).
 8.57: Recital—Mr. Cedric Gardiner, "Desert Love" (Anon).
 9.2: Weather forecast.
 9.3: Waltz—Central Mission Band, "Moonlight" (Pecorini).
 9.9: Tenor solo—Mr. Ernest Elliott, "Caring For the Rose" (Sharpe).
 9.13: Fantasia—Central Mission Band, "Sabbath Chimes" (Round).
 9.25: Bass solo—Mr. Thomas C. Wood, "A Little Bit of Heaven" (Ball).
 9.29: Selection—Central Mission Band, "La Gypsy" (Rimmer).
 9.41: Tenor solo—Mr. Stewart Nelson, "The Poplars of Flanders" (De Clerf).
 9.41: Recital—Mr. Cedric Gardiner, "That Cat" (Rutherford).
 9.50: Vocal quartet—The Warblers, "Mosquitoes" (Bliss).
 9.54: Central Mission Band, "The Great Little Army" (Alford).
 God Save the King.

3YA CHRISTCHURCH (306 METRES)—THURSDAY, APRIL 5.

- 5 p.m.: Afternoon concert session—Selected studio items.
 4.30: Close down.
 6.0: Children's hour—Chuckie. Story of "Mutiny of the Ship Bounty." Several of Miss Lucy Cowan's pupils will also assist.
 7.15: News session.
 8.0: Chimes. Sacred concert by Madame Gower-Burns's Grand Opera Quartet, assisted by Miss Thelma Cusack, Marjory Smith, and Aileen Warren (instrumentalists), and Miss Naare Hooper (elocutionist).
 Soprano and contralto duet—Madame Gower-Burns and Mrs. Ann Harper, "Lord, Bow Thine Ear," from "Elijah" (Mendelssohn).
 Tenor solo—Mr. Harold Prescott, "How Vain is Man," from "Judas Maccabaeus" (Handel).
 Recitation—Miss Naare Hooper, A.T.C.L., "Know Thyself" (Morgan).
 Cello solo—Miss Marjory Smith, "Air" (Matheson).
 Soprano solos—Madame Gower-Burns, (a) "Legend of Christ" (Tschai-kowsky); (b) "There is a Green Hill Far Away" (Gounod).
 Baritone recitative and aria—Mr. Bernard Rennell, "Draw Near," "Lord God of Abraham" (Mendelssohn).
 Instrumental trio—Miss Thelma Cusack (violin), Miss Marjorie Smith (cello), Miss Aileen Warren (piano), "Trio in C Minor" (Beethoven).
 Contralto solo—Mrs. Ann Harper, "Abide With Me" (Liddle).
 Tenor and baritone duet—Messrs. Harold Prescott and Bernard Rennell, "Crucifix" (Faure).
 Weather report and forecast.
 Soprano solo—Madame Gower-Burns, "Jerusalem, Jerusalem" from "St. Paul" (Mendelssohn).
 Recitative and aria—Mr. Harold Prescott, "Comfort Ye, My People," "Every Valley Shall be Exalted," from "Messiah" (Handel).
 Violin solo—Miss Thelma Cusack, selected.
 Recitation—Miss Naare Hooper, "Get Up And Get Out."
 Vocal quartet—Grand Opera Quartet, "Cast Thy Burden Upon the Lord," from "Elijah" (Mendelssohn).
 Baritone solo—Mr. Bernard Rennell, "Sombre Woods" (Lully).
 Instrumental trios—Misses Thelma Cusack, Marjorie Smith and Aileen Warren, (a) "Chanson Triste" (Tschai-kowsky); (b) "Minuet in A" (Boccherini).
 Vocal quartet—Grand Opera Quartet, "Oh, Come Everyone That Thirsteth," from "Elijah" (Mendelssohn).
 God Save the King.

4YA DUNEDIN (463 METRES)—THURSDAY, APRIL 5.

- 7 p.m.: Town Hall chimes.
 7.1: Request gramophone concert.
 7.40: News session.
 8.0: Town Hall chimes. Comedy programme.
 8.1: Relay of light orchestral music from Octagon Theatre.
 8.11: Humorous songs and stories—Mr. Percy James, (a) "Auntie" (Dakin); (b) "Not Exactly Original" (Gillespie).
 8.20: Banjo solo—Mr. Jack McNeil, "Take Me Back Home Again, Lizzie" (Weidt).
 8.24: Light soprano solo—Miss Roma Buss, "Silvery Moon" (Finnerty).
 8.27: Saxophone solos—Mr. J. McCaw, (a) "Nola" (Zamecnick); (b) "Love Came Calling" (Zamecnick).
 8.34: Humorous sketch—The Two Blue Ducks, "Topical Budget," Part 2 (Onawe).
 8.40: Humorous solo—Miss Billie Lorraine, "He's the Last Word" (Donaldson).
 8.44: Humorous address—Pastor W. D. More.
 9.0: Weather forecast.
 9.2: Popular songs—Mr. Billy Gay, (a) "Ain't She Sweet" (Ager); (b) "Sing Me a Baby Song" (Donald).
 9.7: Relay of orchestral music from Octagon Theatre.
 9.15: Humorous sketch—Miss Billie Lorraine and Mr. Percy James.
 9.25: Banjo solos—Mr. Jack McNeil, (a) "My Lady Jazz" (Weidt); (b) "Pickin's" (Reser).
 9.32: Light soprano solos—Miss Roma Buss, (a) "Peter Pan" (Henderson); (b) "Sometime" (Riorito).
 9.38: Saxophone solo—Mr. J. McCaw, "Sequidella," Spanish dance" (Gurewick).
 9.42: Humorous sketch—The Two Blue Ducks, "Topical Budget," Part 2 (Onawe).
 9.54: Popular song—Mr. Billy Gay, "When I Get My Bolshevik Blood Up" (Allen).
 10.0: God Save the King.

Friday, April 6th

1YA AUCKLAND (333 METRES)—FRIDAY, APRIL 6.

- 7.30 p.m.: Relay of special Passion music from St. Mary's Cathedral. Minister: Canon Percival James. Preacher: Rev. G. C. Cruickshank (Vicar of St. Mark's). Organist: Mr. E. Randall.
 At the conclusion of the church service a special Easter programme will be broadcast from the studio.
 8.30: Vocal quartet—Madame Mary Towsey's Quartet, "Cast Thy Burden" (Mendelssohn).
 8.34: Instrumental trio—Bosworth-Hemus-Towsey Trio, "Finale from Trio No. 4" (Mozart).

Radio sets may come and radio sets may go, but burned-out valves and batteries still bring joy to the dealer. A tragic lesson for radio fans in erecting an aerial comes from Buffalo, N.Y., where three members of a family were electrocuted. Fred J. Voltz, jun., and his 17-year-old son were stringing the wire across the roof when it came in contact with a high-tension power line. Both collapsed on the roof, instantly electrocuted. Mrs. Voltz, seeing them fall, rushed to their aid, and when she attempted to clear the bodies of the wire, received the fatal charge. Radio experts, commenting on the accident, deplore the fact that laymen, inexperienced in electricity, attempt installations in dangerous locations. They point out that no wire should be strung where it may touch an electric lighting or power wire, should either become slack.

Erratic reception prevalent in many home-built radio receivers often may be traced to grid leaks of improper value. The higher the resistance of the grid leak the more sensitive the detector action. However, when a leak of high value is used on nearly stations the tone quality suffers. A variable grid leak, or two or three leaks of different values might be kept at hand for use in meeting various reception conditions.

An American broadcasting authority states that with the use of a double microphone system, studio engineers are able to do a better job of monitoring a programme, for they control the solo and accompaniment parts separately, and can thus get better balance.

The material from which conductors are made governs their resistance. In addition to this, the length and cross section determine the resistance of the two conductors of the same substance. The resistance of two conductors of the same material are directly proportional to their length and inversely proportional to their cross section.

A spider web antenna arrangement is employed by the Swedish. The wires are all brought to a central ring. From here they radiate to the roofs of many houses around. The lead-ins are taken off the centre of the wire.

Loose or dirty battery connections often account for some of the noise heard in a receiving set. The terminals on a storage battery are coated with lead to withstand corrosion from the spray of electrolyte, but nevertheless they oxidise quickly. Clean them with a rag dipped in household ammonia.

Radio development in Denmark and Norway is said to be undisturbed by atmospherics, static being almost unknown.

Plate glass which it is planned to use as an insulator or panel may be drilled easily with a three-cornered file lubricated with turpentine. The glass should be placed upon a flat level surface.

A whistle or hum may be caused from any of the following:—
 Microphonic tube in detector socket; speaker too close to set; trouble in B power unit; run down B battery (especially unit or section supply voltage to detector tube); heterodyne of two broadcasting stations; no contact at grid or plate tube socket contact of detector or A. F. tube; grounded A. F. transformer winding; or detector grid circuit open.

Many a radio owner has never listened to a complete number, not to mention a full programme, in his desire to reach out beyond the great unknown. The frequency of KGO, Oakland, California, regularly heard in New Zealand, is now crystal controlled. This monitor of the frequency of transmission signals has been installed at large expense. In the adoption of the crystal quartz oscillator for KGO, the General Electric engineers are using the most accurate method known for maintaining frequency. It will now be impossible for the station to vary more than one-tenth of 1 per cent. from its assigned wave-length of 384.4 metres. Some of the new condenser types of microphones have already been installed at the station. This microphone is used by KOA, Denver and WGY, Schenectady, both General Electric stations, WJZ, New York, and the pioneer broadcaster, KDKA Pittsburgh. Engineer Walter D. Kellogg reports that the latest type of the condenser microphone reduces the effect of extraneous noises caused by mechanical vibrations where the broadcast takes place.

This is the season when the children are put to bed early so as not to interfere with father in his efforts to better his DX record.

A conservative estimate made by the United States Government shows that out of the entire population of that country more than one-fifth are rated as radio owners, which exceeds the number of owners of Fords. This doesn't seem possible, but it is the truth.

A license has been granted to the British East African Broadcasting Company to operate a broadcasting station in Nairobi, Kenya, Africa.

To clean wet battery terminals it will be found that ordinary household ammonia used full strength will remove any acid, corrosion and dirt which has formed. Corrosion, due to acid spray when charging, can be prevented by first cleaning terminals with ammonia and then covering with a thin film of vasoline.

- 8.43: Contralto solo—Miss Gwenyth Evans, "Turn Ye To Me" (Lawson).
 8.47: Recital—Mr. J. F. Montague, "The Master Builder."
 8.52: Tenor solo—Mr. Reginald Newbury, "If With All Your Hearts" (Mendelssohn).
 8.56: Vocal trio—Madame Mary Towsey, Miss Mollie Atkinson and Miss Gwenyth Evans, "Lift Thine Eyes" (Mendelssohn).
 9.0: Weather forecast.
 9.2: Pianoforte solo—Mr. Cyril Towsey, "Study" (Chopin).
 9.5: Mezzo-soprano solo—Miss Mollie Atkinson, "Ave Maria" (Schubert).
 9.10: Recital—Mr. J. F. Montague, "The True Elysian Fields."
 9.15: Baritone solo—Mr. John Bree, "O Lord, We Pray Thee" (Gounod).
 9.19: Soprano solo—Madame Mary Towsey, "Agnus Dei" (Bizet), with violin obbligato by Miss Ina Bosworth.
 9.24: Instrumental trio—Bosworth-Hemus-Towsey Trio, selected.
 9.33: Vocal duet—Madame Mary Towsey and Mr. R. Newbury, "Crucifix" (Faure).
 9.38: God Save the King.

2YA WELLINGTON (420 METRES)—FRIDAY, APRIL 6.

- 7.30 p.m.: Relay of Stainer's Sacred Cantata, "The Crucifixion," from St. Thomas's Anglican Church, Newtown. Vicar: Rev. C. V. Rooke, M.A. Organist and choirmaster: Mr. W. H. Collie, L.L.C.M. Soloists: Messrs. Church, Dunn and Sampson. Quartet: Misses Foss, Messrs. Handcock and Williams.
 After the church service the following concert programme will be broadcast from the studio:
 8.45 (Approx.): Vocal quartet—Apollo Singers, "O Thou Whose Sweet Compassion," from "Olivet to Calvary" (Mauder).
 Baritone solo—Mr. S. E. Rodger, "Easter Flowers" (Sanderson).
 Instrumental trio—Symons-Ellwood-Short Trio, "1st Movement from Trio in B" (Brahms).
 Soprano solo—Miss Moana Goodwill, "When the Roses Bloom" (Reichardt).
 Vocal duet—Messrs. Robbins and Rodger, "Now We Are Ambassadors," from "St. Paul" (Mendelssohn).
 Pianoforte solo—Mr. Gordon Short, "1st Movement of Sonata Op. 31, No. 3" (Beethoven).
 Contralto solo—Miss Hilda Chudley, "He Shall Feed His Flock," from "The Messiah" (Handel).
 Tenor solos—Mr. E. W. Robbins, (a) "Like a Fair Vision" (Mauder); (b) "Not of This World" (Mauder).
 Violin and piano—Miss Ava Symons and Mr. Gordon Short, "Sonata for Violin and Piano in D Minor—1st Movement" (Brahms).
 Contralto solos—Miss Jessie King, (a) "He Was Despised," from "The Messiah" (Handel); (b) "There is a Green Hill Far Away" (Gounod).
 Baritone solo—Mr. S. E. Rodger, "Just As I Am" (Hawley).
 Vocal quartet—Apollo Singers, "Good-bye" (Wheeler).
 Close down.

3YA CHRISTCHURCH (306 METRES)—FRIDAY, APRIL 6.

- 11 a.m.: Relay of combined church service (under the auspices of the Minister's Association), from the Durham Street Methodist Church.
 7 p.m.: Relay of evening service from St. John's Church of England, Latimer Square. Preacher: Rev. J. F. Coursey. Organist and choir mistress: Miss J. Black.
 The following after church concert will be given from 3YA Studio:—
 8.15: Baritone solo—Mr. A. G. Thompson, "Soul of Mine" (Barns).
 8.18: Tenor solo—Mr. T. G. Rogers, "Green Hill Far Away" (Short).
 8.21: Mezzo-soprano solo—Miss M. Lorimer, "Tired Hands" (Sanderson).
 8.24: Cello solo—Miss Nellie Ellwood, "Death and the Maiden" (Schubert).
 8.27: Contralto and baritone duet—Miss Conn and Mr. A. G. Thompson, "Snowdrops, No. 1" (Lehmann).
 8.30: Tenor solo—Mr. T. G. Rogers, "Lead Kindly Light" (Evans).
 8.33: Mixed vocal quartet—Misses Lorimer, Conn, Messrs. Rogers and Thompson, "Beloved! If God So Loved Us" (Barnby).
 8.36: Instrumental trios—Mr. Laurian Beck (violin), Miss Nellie Ellwood (cello), Miss Aileen Warren (piano)—"Adagio and Finale," from "Trio Op. 171" (Gurlitt).
 8.44: Mezzo-soprano solo—Miss M. Lorimer, "Give" (Cowan).
 8.47: Baritone solo—Mr. A. G. Thompson, "The Living God" (O'Hara).
 8.50: Contralto and baritone duet—Miss Conn and Mr. A. G. Thompson, "Snowdrops, No. 2" (Lehmann).
 8.53: Violin solo—Mr. Laurian Beck, "Meditation" (Gounod).
 8.56: Contralto solo—Miss M. Lorimer, "He Was Despised," from "Messiah" (Handel).
 8.59: Instrumental trios—Mr. Laurian Beck, Miss Nellie Ellwood and Miss Aileen Warren, (a) "Ave Maria" (Schubert); (b) "Polish Allegro" (Scharwenka).
 9.4: Tenor and baritone duet—Messrs. T. G. Rogers and A. G. Thompson, "So Thou Lifest Thine Divine Petition," from "Crucifixion" (Stainer).
 9.7: Mixed vocal quartet—Misses Lorimer and Conn and Messrs. Rogers and Thompson, "The Day is Gently Sinking to a Close" (Smart).
 God Save the King.

4YA DUNEDIN (463 METRES)—FRIDAY, APRIL 6.

- 3 p.m.: Town Hall chimes.
 3.1: His Master's Voice gramophone recital of Easter music.
 4.30: Close down.
 7.0: Town Hall chimes.
 7.1: Relay of special Easter service from St. Paul's (Anglican) Cathedral. Preacher: Rev. Canon Nevill. Organist: Mr. E. Heywood, F.R.C.O.
 After the church service the following concert programme will be broadcast from the studio:—
 8.15: Contralto solos—Miss Flora Williamson, (a) "He Was Despised," from "The Messiah" (Handel); (b) "The Legend" (Tschai-kowsky).
 8.22: Bass solo—Mr. Neil Black, "Open the Gates of the Temple" (Knapp).
 8.43: Contralto solo—Miss Flora Williamson, "O Rest in the Lord" (Mendelssohn).
 8.47: Bass solos—Mr. Neil Black, (a) "Easter Hymn" (Bridge); (b) "Out of the Deep" (Martin).
 8.55: Easter music.
 9.0: Close down.

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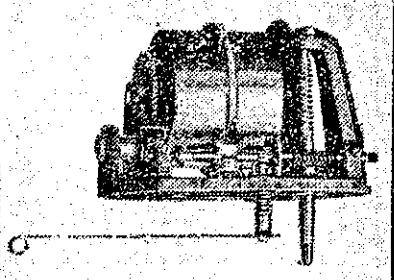
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