

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JUNE 8.

- 3.0 : Chimes. Selected gramophone items.
 4.30 : Close down.
 5.0 : Children's Song Service, conducted by Big Brother Bill.
 6.15 : Close down.
 6.30 : Relay of Evening Church Service from St. Paul's Cathedral. Preacher: Canon Neville. Choirmaster: Mr. Heywood.
 7.45 : Overture—National Symphony Orchestra, "Fra Diavolo" (Auber).
 7.51 : Tenor—Browning Mummery, "Madeline" (James) (Zonophone 5440).
 7.54 : Piano—Vladimir de Paekmann, (a) "Mazurka in C Sharp Minor"; (b) "Mazurka in A Minor" (Chopin) (H.M.V. DB1103).
 7.58 : Mixed Vocal—Pace Jubilee Singers, "Old Time Religion."
 8.1 : Weather report.
 8.2 : Orchestral—Zonophone Salon Orchestra, "Old Rustic Bridge" (Shelly).
 8.5 : Relay of Band Concert from His Majesty's Theatre by Dunedin Tramways Band, assisted by Miss G. Burt, contralto, and Mr. J. E. Davies, tenor.
 9.30 : God Save the King.

Australian News and Programmes

Thursday, May 29.

- 2FC—9.30 p.m.: The Harmonic Choral Society—the sixth and final entrant in the Radio Choral Competition—present a studio concert.
 2BL—9.30 p.m. and 9.20 p.m.: The Australian National Orchestra present selections from the Capitol Theatre. 9.37 p.m. and 10.30 p.m.: Jack Lumsdaine, the "Radio Rascal," in songs at the piano.
 3LO—9.30 p.m.: "The Sunshine Boys," in songs at the piano. 10 p.m.: The A.B.C. Dance Band in dance numbers interspersed with vaudeville numbers.
 3AR—9.45 p.m.: Special studio reproductions, commencing with "Symphony No. 5 in E Minor, Opus 64" (Tschalkowsky), played by the Symphony Orchestra. 10.30 p.m.: Relay from the Cairns Memorial Church, East Melbourne. Programme by the choir. 11 p.m.: Studio reproductions.

Friday, May 30.

- 2FC—9.30 p.m.: From the Aeolian Hall, organ recital by G. Vern Barnett. 10.45 p.m.: Relay from 3LO, Melbourne (see programme for this station).
 2BL—10.30 p.m.: "The Young in Heart," a radio play.
 3LO—9.30 p.m.: Hamilton Webber and his State Musical Ensemble, broadcasting from the State Theatre. 9.37 p.m.: "Scotch Broth," a musical sketch. 9.57 p.m.: St. Augustine's Band in "Gems of Sullivan." 10.6 p.m.: "Room 87," a one-act play. 10.45 p.m.: The State Musical Ensemble. 11.15 p.m.: Pat Hanna and his Diggers in "Skits and Sketches of To-day."
 3AR—9.45 p.m.: Community singing from the Ballarat Town Hall.

Saturday, May 31.

- 2FC—9.30 p.m.: Studio Orchestra present "The Blue Danube," by Strauss. 8.36 p.m.: "My Gypsy Maid," a Romany romance. 10.53 p.m.: The 2FC Follies present a revue from the Little Theatre.
 2BL—10 p.m.: A description of the boxing contest from the Sydney Stadium.
 3LO—9.40 p.m.: "The Pickwick Club" (Episode V). 10.20 p.m.: A special programme has been arranged.
 3AR—9.30 p.m.: Memorial Military Band, and variety numbers. 10.22 p.m.: "The Black Sheep," a one-act comedy.

Sunday, June 1.

- 3LO—9.30 p.m.: Hamilton Webber, Mus.Bac., and his State Musical Ensemble, broadcasting from the State Theatre, with Frank Lauterman at the Wurlitzer, supported by leading vocal artists.
 3AR—10 p.m.: Relay from 2BL.

Monday, June 2.

- 3LO—9.30 p.m.: A short programme of Russian music. 11 p.m.: "Conn the Shaungraun," an old Irish play, adapted for broadcasting.
 3AR—9.45 p.m.: Brass Band and variety. 11 p.m.: Light comedy.

Tuesday, June 3.

- 3LO—9.30 p.m.: A short song recital by Madame Joy McArden, soprano, assisted by the Studio Orchestra and the A.B.C. String Quartet. 10 p.m.: The Catherine Neill Players present "The Way of Transgression" (Betty M. Davies), an Australian comedy. 11 p.m.: "The Jazz Spider," a radio serial play. 11.40 p.m.: The Combined Orchestras present a melody scene, "Mother."
 3AR—10.7 p.m.: Comedy sketch, "A Sister to Assist 'Er." 10.32 p.m.: A.B.C. Dance Band in dance numbers, interspersed with novelty numbers.

Wednesday, June 4.

- 3LO—9.37 p.m.: "Kitchener of Khartoum," told by Brandon Chemer. 10.7 p.m.: "By the Fireside," a song scene, introducing old-time melodies. 11.15 p.m.: "The Crooning Collegiates," in modern numbers with novelty effects.
 3AR—10.20 p.m.: "Admiral Peters," a one-act comedy.

Next Week's Features

(Concluded from page 15.)

and the Christchurch Broadcasting Trio.

Of Note From 4YA.

AT 3.15 p.m. Miss Buccleugh will talk, especially to the ladies, on the question of the hour—"Fashions." The classical programme will include items by the 4YA Instrumental Trio, while Mr. P. J. Palmer and Mr. Max Scherek will be associated in 'cello and piano selections. Mr. Scherek, in conjunction with Mr. J. A. Wallace, will also present the Second Movement and Finale from the "Kreutzer Sonata" for violin and piano ((Beethoven). Other artists include Miss Florence Sumner (soprano), Miss Lorna Smith (contralto), Mr. Allan Mitchell (tenor), Mr. Lester Moller (elocutionist), and the ever-popular Winkel-Lampen Radio Players, presenting two sketches "The Gentleman" and "Sleeping Out."

THE Orchestral Octet will provide instrumental music for the evening programme, while Mrs. Daisy Basham and Mr. Arthur Briggs will be heard in solos and duets.

SATURDAY

Items of Interest from 1YA.

AT 11.45 a.m. the station will go on the air to broadcast further racing results from Ellerslie.
 The Orchestral Octet will provide instrumental music for the evening programme, while Mrs. Daisy Basham



MR. TOM MOFFITT, who is presenting numbers by modern composers from 1YA shortly.
 —S. P. Andrew photo

and Mr. Arthur Briggs will be heard in solos and duets.

Mrs. Basham will present two songs by the eminent English composer, Mallinson. It is unfortunate that more of this composer's works are not heard, as they are delightful, inasmuch as the music always brings out the meaning of the words.

Mr. Dan Flood, will entertain with humorous items, while Miss Reta McCullay, soprano, will be heard in some of her delightful Scottish songs. The programme will conclude with dance music at 11 p.m.

2YA's Programme.

THE vaudeville programme to-night will comprise vocal items by the Melodie Four and Miss Dorothy Spiller, a very fine contralto, who was a regular performer at 3YA and who now resides in Wellington. Humorous sketches will be given by Mr. Cedric Gardiner and Miss Madge Freeman, and Berthold and Bent will be heard in a group of steel guitar numbers. The Salon Orchestra, under Mr. M. T. Dixon, will play Ashton's "Musical Jig Saw," Lampe's "Vision of Salome," Bayne's arrangement of "Squire's Popular Songs," and several dance numbers.

From 3YA and 4YA.

A VARIETY of entertainment will be provided and relayed to 4YA. Miss Linda Milla (soprano), Miss Edna Johnson (contralto), Mr. B. H. Collett (baritone), and Mr. William Ellis (bass) will be the vocalists. A vaudeville turn of song, dance, and story will be contributed by Mr. Eddie Hegan. Miss Lily Kinsella will provide humour at the piano. The Studio Octet will be heard in instrumental numbers.

A Radio Yardstick

FUNCTIONING with an exactness of better than one part in 1,000,000, a radio yardstick has been designed by the American Bureau of Standards for measuring the frequencies or wavelengths of the 600 broadcasting stations, 16,000 amateur stations, and other radio transmitters existing in America. It will detect broadcasting stations that are wabbling, or straying from their assigned wavelength, and it means improved reception to the estimated 10,000,000 listeners in the United States. This new radio yardstick consists of four miniature transmitters.

The heart of the instrument is the quartz crystal or mineral, which acts as a governor of the transmitters. Heretofore these slabs of minerals have been cut in disc or other shapes, but here they take the form of rings. Tests have shown that ring-shaped crystals are least subject to variations of temperature and therefore are more constant and precise as governors of radio wavelengths or frequencies.

The crystal governors are further protected from moisture and pressure variations by inclosing them in a bell jar, at a pressure slightly below atmospheric. Also they are covered by a shell of aluminium, with a wall one inch thick. The wall holds a heater and a thermostat element.

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