

THE concert session on Tuesday evening will be contributed to by Mr. Stewart Nelson (tenor), Mrs. Winifred Birch-Johnson (comedianne) and Mr. Spencer Farrell (popular songs). Humorous elocutionary items will be given by Mr. Will Yates. The instrumental portion of the programme will be given by the Salon Orchestra, under Mr. M. T. Dixon. The items will include the "Stradella" Overture, "The Cossack's Wedding Fete," the "Hyde Park Suite," Haydn Wood's "Virginia" and a trio number, Godard's "Second Valse in B Flat."

A STUDIO programme, interspersed by Hutt election results, on Wednesday evening.

THE Wellington Artillery Band (under the conductorship of Captain T. Herd) and assisted by the Melodie Four Male Voice Quartet, Miss Gladys Hibberd (contralto) and Mrs. M. Thomas (elocutionary numbers) will present an interesting and varied programme on Thursday evening. The band items will include the fantasias, "The Dawn of Spring" and "Robin Adair," a medley entitled "A Melodious Revue," a cornet duet, "Heart's Desire," and a gavotte entitled "Somewhere in France."

ON Friday evening the Etude Quartet will provide a programme of vocal gems from light opera and musical comedy, the Orchestra, under Signor A. P. Truda, playing items in keeping with the vocal numbers. The Orchestra's items include the overture to "Lucia di Lammermoor," Ansell's arrangement of selections from Offenbach's operas, a selection from the musical comedy, "The Pink Lady," the opera, "The Girl of the Golden West," and the march from "Tannhauser." Mr. and Mrs. Albert Russell, two of Wellington's most popular entertainers, will provide the humorous portion of the programme.

SATURDAY evening's programme will be of a bright, entertaining nature, those contributing being the Salon Orchestra, the Lyric Quartet, Miss Violet Roberts (contralto), Mrs. Mildred Kenny's Guitar Orchestra and Mr. Jack Wilkinson (comic songs).

3YA Features

"BOY SCOUTS" will be the text for the sermon at St. Mary's Church, Merivale, on Sunday evening. The preacher will be the Rev. J. Rich. A relay from Dunedin will follow, the concert to be given by the St. Kilda Band, under Mr. James Dixon.

FOR band night on Monday the instrumentalists will be the Christchurch Municipal Band and the 3YA Broadcasting Trio. The assisting vocalists will be Mrs. Lucy O'Brien (soprano), Miss Mary Taylor (contralto), Mr. T. G. Rogers (tenor) and Mr. E. J. Johnson (baritone), while elocutionary items will be given by Miss Winnie Andrew.

ON Wednesday evening the presentation of "Messiah" by the Royal Christchurch Musical Society will be relayed from the Civic Theatre. The soloists will be: Miss Gladys Brookes (soprano), Miss Freeman Brown (contralto), Mr. A. Perry (tenor), and Mr. E. J. Woodward (bass). The conductor will be Mr. W. H. Dixon, L.R.A.M., A.R.C.M.

AT 7.30 on Thursday evening there will be a talk to farmers in the form of a review of the latest issue of the "Journal of Agriculture."

ON Thursday evening there will be a broadcast performance by the Christchurch Orchestral Society, assisted by the Avonside Church choir. The popular 3YA Instrumental Quartet (Miss Gladys Vincent, Mr. Francis Bate, Mr. A. Gordon and Professor Savini) will also be contributing. Professor Savini is the conductor of the orchestra.

A PROGRAMME comprising mainly excerpts from light musical comedies will be supplemented by dance music provided by the Bailey Marston Dance Orchestra on Friday evening. The vocalists will be the Melodious Four.

ON Saturday evening the programme will consist of a relayed description from the ringside at Wirth's circus.

4YA Features

SUNDAY evening's broadcasts will comprise a relay from the Congregational Church (Rev. Alfred Mead, preacher), and a relay of the concert to be given at the St. Kilda Band rounda by the St. Kilda Band.

EXCERPTS from Friml's opera, "The Vagabond King," will be sung by Madam Carlson and Miss de Reya on Monday. The opera is very popular at the present time, due to the fact that the motif of Friml's themes is very much like that of Puccini, the composer of "Madame Butterfly," "La Tosca," etc. The duets and solos chosen for this occasion contain the popular Hoggette Waltz. A small orchestra has been specially engaged for the evening's programme. This combination consists of piano, violin, 'cello, bass, clarinet and cornet. It will be under the direction of Mr. Pettit, the well-known Dunedin musical director. Included on the orchestral items are Mendelssohn's "Fingal's Cave" and Max Bruch's "Kol Nidrei." Mr. Angus Gorrie will continue his Series of the Poets, taking for this occasion Robert Browning. Mr. L. E. Dalley, one of Dunedin's leading tenors, has chosen selections from Puccini's "La Boheme," Mascagni's "Iris," and Goring Thomas's "Esmeralda."

THE Kaikorai Band, under Mr. T. J. Kirk-Burnand, will be providing the programme on Tuesday evening.

Two interesting items to be played will be "Two New Hungarian Dances," especially written for brass bands by Frank Mullen. These dances are of a barbaric nature, but unlike Brahms, are not based upon Hungarian folk songs and dances. At the same time these dances are descriptive, and present ample scope for band playing. A new arrangement of Richard Wagner's "Meistersingers von Nurnberg" is also being presented by the band. The assisting artists for the evening will be Miss Sligo (soprano), Miss Gwenda Burt (contralto), Miss Ngata Buswell (elocutioniste), and Mr. Les. Stubbs (baritone).

ON Wednesday evening a well diversified programme will be presented. Solos and duets will be sung by Miss Rita Holmes and Miss Irene Hornblow, the duets being "Awake" and "The End of a Perfect Day." Baritone songs will be sung by Mr. W. Ruffell. A novelty trio will play a number of popular airs.

WHAT will be very interesting items will be provided by Miss Ida Lungley on Friday, when she will sing several negro spirituals, which have become so popular of late. Miss Lungley, who is the Dunedin Operatic Society's pianiste, is the possessor of a beautiful contralto voice. Last summer she toured Central Otago and delighted many large audiences with her interpretation of Negro Spirituals and Maori folk songs. Listeners in Otago Central will look forward to hearing her on the air.

Also singing on Friday evening will be Mr. A. Lungley, a fine baritone, who will be heard in "Onaway, Awake Beloved," "The Devout Lover" and "The Volga Boatmen." Soprano solos will be sung by Miss Lettie de Clifford, and there will be tenor songs by Mr. D. Crew. Instrumental music will be supplied by the Celeste Quintet. Elocutionary items will be given by Miss Tui Northey.

ON Saturday evening there will be the "Night With the Pioneers."

World Radio

THE Byrd Antarctic Expedition is certainly proving to be its own publicity agent. The latest performance is reported to be the blowing of a motor-car horn in Los Angeles by means of a radio impulse sent from Byrd's camp. The same impulse drew curtains from an enlarged picture of Byrd at the National Radio Exposition at Los Angeles. These feats are certainly records in distance control!

TO overcome the difficulty experienced by navigators in judging the distance of a fog syren, an interesting experiment in wireless telephony is to be made in the near future at the Cumbrae lighthouse, in Scotland. After the sounding of each blast from the syren the words "one," "two," "three" will be transmitted at intervals corresponding to the time the sound waves would take to cover one mile. By noting the time lag between the reception of the wireless signal and the sound of the syren, mariners will be able to determine with fair accuracy how far their ship is from the source of sound. At the moment when the syren sounds the name of the station or lighthouse will be given.

The Telephone Jubilee

A Famous Pioneer

JUST fifty years ago the first telephone exchange was opened in London. It was not a very extensive affair, as it had only nine subscribers, but it worked, and worked successfully. It was the result of many long and strenuous years of research on the part of Alexander Graham Bell, the pioneer of the telephone.

Some twenty years after his birth in Edinburgh in 1847 Bell emigrated to Canada, and it was in this country that he developed the ideas that had been forming in his mind for some time. His inspiration was directly due to his experience as a teacher of the deaf and dumb. To teach the deaf to hear by means other than the spoken word was the task to which Bell devoted himself, and he spent much time in studying the mechanism of the human voice.

Tuning forks were employed in the initial experiments, and Bell succeeded in producing vowel sounds by means of them. Then his mind turned to the use of an electric current, and after many experiments, not all of which were successful, Bell produced a telephone receiver which may be called the prototype of the one in universal use to-day. In its essentials, at least, it was very similar. An interesting point at this stage of the development of the telephone is the fact that Bell's receiver and transmitter were identical in design.

It is well known that it is possible to speak over a short distance using only two receivers joined by a pair of wires, and it was by this method that Bell first succeeded in transmitting messages by wire. His interest in telephony did not finish after his initial success, for he invented what he called the "photophone," an apparatus for transmitting sound by means of light. In connection with this, it is interesting to discover that an apparatus designed for "hearing light and seeing sound" has recently been demonstrated in America.

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