

THE RADIO RECORD

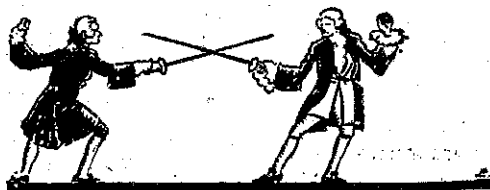
Published Weekly
REGISTERED G.P.O., WELLINGTON, N.Z., AS A NEWSPAPER.

Vol. III., No. 6.

WELLINGTON, FRIDAY, AUGUST 23, 1929.

Broadcast of "La Traviata"

Another Verdi Grand Opera from 1YA



EVERYONE who listened in to "Rigoletto" when presented some months ago will be pleased to note the opening date for the broadcasting at 1YA of another of Verdi's grand operas, "La Traviata." The first instalment will be given on Tuesday, August 27, with explanatory description by Mr. R. W. Strong, secretary of the Auckland Choral Society.



"**L**A TRAVIATA" means "The Frail One." The Opera was produced when Verdi was forty. He had already had great success with "Ernani," "Rigoletto," and "Il Trovatore." Yet, writing to a friend after the opening night of "La Traviata," he had to say: "It was a failure. Was the fault mine or the singers'?" Time will decide.

On the whole, time has been fairly kind to "La Traviata."

The Opera was familiar to a former generation of play-goers in its form as a spoken play, "Camille." It is based on Dumas' "La Dame aux Camellias."

ACT I.

THE chief characters in the order in which they sing are: Violetta Valery, the heroine (Soprano); Gaston, the hero's friend (Tenor); and Alfred Germont, the hero (Tenor). Other voices heard are those of Violetta's friends, to whom, at the opening of the Opera, she is giving a gay entertainment.

Alfred is introduced to her, and his friend, Gaston, tells her that Alfred is in love with her. She seems to think little of the news, but in reality she is touched by Alfred's sincerity.

He, himself, protests his love, and she sings the famous air, "Ah, fors' e lui" (translated as "Ah, was it him my heart foretold, when in the throng of pleasure, Oft have I joy'd to shadow forth, one whom alone I'd treasure").

But she decides that there is no hope of lasting love for her, and her mood changes to one of recklessness.

The Act ends with her brilliant second air, "I'll fulfil the round of pleasure, joying, toying from flower to flower."

ACT II.

IN the second Act, Violetta has made her home with Alfred. He, however, learns from her maid, Annina (Mezzo-Soprano), that in order to keep up the home, Violetta has sold her jewels. He goes to Paris to raise money to pay her back. In his absence, his father, old Germont (Baritone) comes to Violetta, to beg her to give up Alfred. Violetta sacrifices her new happiness. Ill though she is, she writes a note for Alfred to tell him she is returning to her old life.

Alfred comes in, and she conceals the letter, sending it to him, instead, later, by messenger.

He concludes that she is perfectly heartless, and pursues her to a banquet. At the banquet Alfred publicly insults Violetta. She is broken-hearted, but carries out her bargain with his father, and will not divulge her real motives.

The Act ends with Violetta's sad protestation to Alfred that time will show how he has wronged her.

ACT III.

IN this, the last Act, Violetta is dying.

Her doctor (Bass) cheers her, but knows she cannot live. Then Alfred comes in. His father has told of Violetta's sacrifice of her happiness. All is forgotten but their love. Old Germont comes to give his blessing, but it is too late. Violetta dies in her lover's arms.

A VERITABLE triumph has been attained in the recording of "Traviata" in complete form. The opera itself is one that has held the stage since its first production in 1853; and the singers of La Scala, Milan, both principals and chorus, together with the orchestra of that famous opera house, unite in the production of a record that is marvellous in its close approach to reality. Mercedes Capsir, a soprano with a voice of deep emotional significance, is cast for Violetta; Lionello Cecil, an excellent tenor, as Alfredo; and Carlo Galeffi, the famous baritone, as Alfredo's father.

THE NEW IMPROVED

Mullard

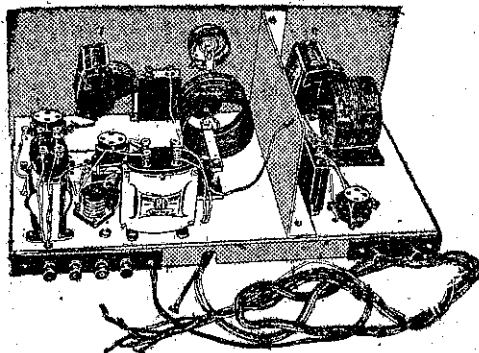
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Auckland Notes Gathering of "Reds"

(By "Listener.")

THE last issue of the "Radio Record" has evoked even more than the usual local interest. Readers found much for encouragement and discussion in the excellent account of the dinner at which all types of radio folk were present, and where broadcasters, dealers, and listeners fraternised to mutual benefit. The account gave Aucklanders, away from the centre of affairs wireless, a clear insight into all that is being done, and an indication of what the future will hold. A gathering of a similar type, if held here, would be just as enthusiastic and productive of equally good results. The only things necessary are the occasion and the organiser.

THE time is only recent when owners of radio sets were concerned merely with the achievement of picking up something, and the further the distance of the "picked-up" station the greater the delight of the recipient of the transmission. Our early receptionists were not, in the main, musical, nor even critical, except upon the point of volume. Now, however, conditions have altered. People who are true lovers of good music own sets, and their ranks have swelled to many thousands. They expect quality, not distance, and there is no doubt that the catering for this growing proportion of listeners deserves fullest consideration. And it appears to be getting it. One hears occasional complaints concerning the gramophone records of acts of great operas, but for one complaint there are dozens of appreciations, and it is pleasing to note that these recitals are being continued. A local listener, also a keen musical student, suggests to the writer that on the local "classical night"—Tuesday—the whole programme should be given over to the gramophone. There is much in his contention that it is preferable to hear the world's best artists in their recordings of the great masters of music, than to hear the interpretation of Auckland's best vocalists in the same items. He argues further that the additional orchestral scope afforded by the gramophone is another justification for the adoption of his suggestion. How the general listening public would view his proposal can be gauged only through the correspondence columns of the "Record"—the best medium for securing the opinions of listeners throughout the length and breadth of the land.

EVERY New Zealand station is supposed to have a silent night, a point upon which there has been much discussion and some complaint. There should be no occasion for the latter so far as Auckland is concerned. Scarcely a Monday now passes but 1YA is on the air, giving breezy and accurate accounts of some sporting fixture in the Town Hall. Both boxing and wrestling are receiving excellent advertisement through local radio descriptions of contests.

BOTH direct, and through 1YA the splendid Maori Pageant had excellent reception in Auckland. On the Friday night the writer entertained a trio of visitors to New Zealand, and so interested were they that they insisted on listening till the programme

WHAT was first thought to be a demonstration in connection with the trouble between Russia and China turned out to be the progress of the "Red" congress which was being broadcast by the Russian short wave station, Thursday night (N.Z. time), writes Mr. R. Leslie Jones (Lyal Bay). The extraordinary excitement both of the speakers and the audience was a feature of the broadcast. In between the speeches the "Red Flag" was sung, and during each speech considerable excitement prevailed, there being a good deal of calling out by the crowd, and other noise.

Speakers were introduced in English, and amongst them was a representative from the Philippines who spoke very rapidly, and Japanese or Chinese telegrams were read in English, including one from America which was sent to "Our Comrades," with an apology for not being able to reach congress personally in time for the opening. Never have I heard such an uproarious meeting broadcast. The Proletariat was frequently mentioned; and most of the speeches, although fairly short, were fired off in rapid succession; the whole being staged evidently with a view to making an impression abroad. From a radio point of view the signal strength was good, the broadcast being received here in Wellington at exceptional volume, but owing to the screaming voices, and the excessive shouting by the speakers, there was some slight blurring in the speech; bits here and there were understandable, and the major portion of the American telegram could be pieced together.

One could picture the audience rising as one man and cheering various remarks made by the different speakers; in fact, during the show, it almost appeared as if a riot was taking place.

There appeared to be at least a good-sized hall full of screaming hysterical people with vehement words on their tongues, the word "comrade" being used frequently. One speaker was announced as being a general of the Red army of Germany. I listened to this for an hour and then gave it up as the noise and din was terrific.

concluded. From the broadcast they obtained a much more faithful idea of the real Maori than does the average Rotorua tourist.

THERE will be general regret at a loss which will soon fall upon Auckland listeners. Regularly we have listened to and enjoyed the relays of the Majestic Theatre Orchestra. Now the Majestic is going over to the "talkies," and presumably the orchestra will no longer be required at the theatre. From the purely selfish point of the listener, the change is to be regretted.

SOME listeners have asked of late why the "talkies" themselves could not be broadcast. Chatting to a theatre manager the other day, the writer mentioned the subject, to learn that such a broadcast would be appreciated as a boosting medium by the picture people themselves, but unfortunately that vexed law of copyright interfered. It seems that very stringent conditions bind down the exhibitors of the latest type of film.

Growth of Radio Communication



So early as 1838 the first wireless telegraphic signals were transmitted, when Steinhell was conducting experiments in transmitting wireless telegraphic signals through iron railings. On the completion of the experiment it was found that in more than one place the railings were not touching, and it was realised that such a phenomenon as wireless telegraphy was possible.

In the latter part of the nineteenth century a brilliant young scholar who later was to specialise in mathematics became well known at Cambridge University—this was the now world-famed Clark Maxwell. Working from a hypothesis, Maxwell proved mathematically that wireless telegraphy was possible and that it took the form of waves which could range up to 100 miles long. These had the power of penetrating and could be reflected. He advanced the theory that when a fluctuation of electricity took place in a magnet, a series of surges was set up in the field of this magnet. These surges moved at a definite number per second, and were consequently a definite distance apart, and that if an instrument could be devised to move in harmony with these, signals could be transmitted without wires.

Considerable interest was aroused by these rather startling hypotheses, and in 1887 the attention of a German scientist, Hertz, was drawn to these publications. He was sent to England to prove or disprove Maxwell's theories. In his experiments he constructed an induction coil which fed high-tension impulses to two balls of metal, and at a distance of some 20 or 30 feet was able, through the medium of a bent wire, to get a spark moving in resonance with the surges of current between the two balls. This was the first oscillator, and proved Clark Maxwell's theory. Later, a series of Leyden jars was connected between the two balls, resulting in an improved oscillator.

TELEPHONE transmission was at this time becoming rapidly improved, and a Londoner named Hughs became interested in the perfection of the microphone. Hughs discovered that with his instrument he could at some hundreds of yards detect leakages in telephone lines, and he stated that it would be possible to develop a new science on these lines. Hughs became quite a familiar figure in his quarter of London, being known as a "rather queer fellow with funny ideas." He could be seen well into the night moving stealthily along the dark streets, dodging backwards and forwards, holding a strange instrument to his ears. He was intercepting wireless signals. Thus, while Maxwell was predicting wireless telegraphy and Hertz searching for it, Hughs was actually using it. But in common with so very many other geni, Hughs's efforts were frustrated and he, very disheartened, turned from his experiments.

The attention of Sir Oliver Lodge was attracted towards this new science, and he commenced a series of

RADIO is younger than the average reader. Within 30 years it has developed from doubtful experiment to a world-wide necessity. It is becoming more than a daily amusement, it is moulding the destiny of civilisation and it is not speculation to say that within the next 20 years communication, both verbal and visual, will be taking forms that the mind cannot picture.

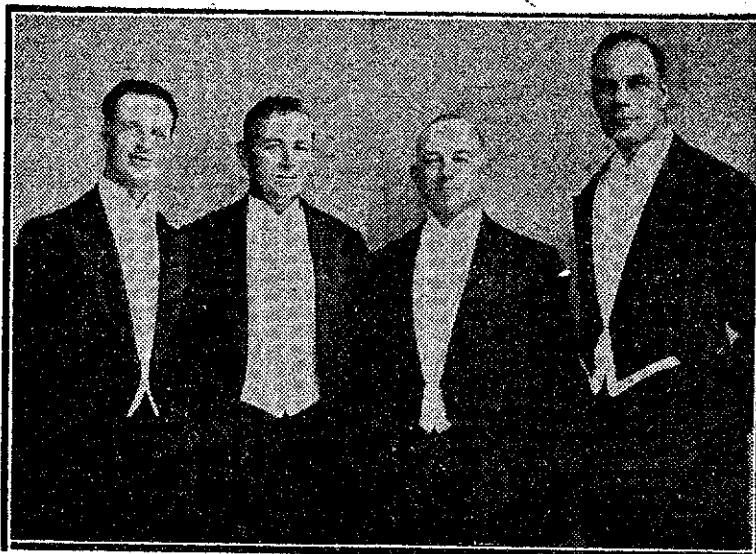
The following is the synopsis of an address on this topic delivered to the Wellington Radio Society by our Technical Editor.

experiments specialising in tuning, and it is to him we owe the variable tuning coil. In 1890 Brandly invented the coherer, an instrument more sensitive than any of its time, for detecting the presence of wireless waves.

APART from all these movements in England, a young Italian, or should it be said, half-Italian, for this boy

Aerials had been suspended from balloons, and two of these had been swept down by the high gales, but undaunted, Marconi persisted, and at exactly 11.30 on December 12, the first faint, but distinct signals, S.O.S., were detected. The Atlantic had been crossed.

UP to this time, all the transmissions had been made on interrupted



The IYA Lyric Four. Mr. Arthur Ripley (1st tenor), Mr. H. Richards (2nd tenor), Mr. Allan McElwain (baritone and humorist), and Mr. E. Thomas (bass). This quartet has enjoyed a fine reputation for many years and is in great demand at all functions.

was born of an Irish mother, was becoming deeply interested in wireless telegraphy. He had rigged up in his father's garden, a transmitter and receiver, and had developed the science along lines of his own. This was the youth Marconi. His first contribution was an improved Hertzian oscillator, for he found that by connecting one of the balls to earth, transmission could take place from a considerable distance.

By 1896 the science had been developed by Marconi to such an extent that it was able to be used in connection with the illness of Prince Edward (late King) in that bulletins were transmitted from his yacht to Osborne House on the Isle of Wight. In 1899, the first message was transmitted across the English Channel, and in December, 1901, Marconi essayed to fulfil his dream—transmission across the Atlantic. With a powerful transmitter erected in Cornwall, and a receiving station in Newfoundland, Marconi and his two friends set about bridging this great gulf. Conditions were against them, and for three days they listened in Newfoundland without success.

the grid, and by impressing signals waves, or what is more familiarly known as spark transmission. Series of dots and dashes were all that could be sent, and attention was focused on the sending and receiving of voices, or what is known as continuous wave transmission. The first attempt at this culminated in Pulsen's singing arc, a device which, although very inefficient, enabled music and voices to be transmitted for a short distance. The crystal detector was already in use, but there were so far no means of amplifying the signals.

PERHAPS the greatest impetus that any science has received was given when in 1908 Fleming and De Forrest independently discovered the thermionic valve. Fleming, the Englishman, discovered that if a hot filament and a cold plate were both enclosed in a vacuum tube that signals could be detected. Almost simultaneously De Forrest in America made the same discovery, but introduced a third element, upon this grid enormous amplification was possible.

The result of these discoveries is wireless as we know it to-day. The extent to which these discoveries have been developed are realised by anyone who is at all conversant with radio literature. When one realises that in New Zealand he can hear amplified to an enormous extent the natural creakings of a wall in Brisbane, he will realise to some extent the significance of the discovery of these two geni.

Wireless now moved forward at an amazing pace. The Armstrong circuit was probably the most outstanding invention of this period. Armstrong discovered that if the output of the plate was fed back to the grid coil, enormous amplification could take place within one single valve. This we know as reaction.

THE war period, 1914 to 1928, hurried forward the development of wireless telegraphy and telephony. In 1915 the first telephone message was "wireless" across the Atlantic, when a man in New York "rang up" another in the Eiffel Tower, Paris. During this period, the wave-lengths ranged between ten and twenty-five thousand metres, or, as we would say now, between three and 12 kilocycles per second. For the reception of these frequencies induction coils of great length were necessary, and visitors to the exhibition will remember the very big coil that was exhibited on "Radio Record" stand. This was a relic of these days.

Prior to this, the shorter waves had been used, but the longer ones were resorted to because of their apparent greater carrying power. Following 1916, experiments were conducted in the use of shorter waves. By 1924 transmission was taking place in the region of 100 metres or 3000 kilocycles.

Broadcasting as we understand it to-day began in 1921 when a few stations were established both in America and on the Continent, and from this date its permanency as a factor in every home became established. From that date, too, its story is known to all.

The Beam.

IN 1924 Marconi became interested in beam transmission. It might be explained here that if a parabolic mir-

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for intercepts parallel rays of light, they will be concentrated at one point, and that the focus. Conversely, if a point of light be situated at this focus the beams will leave the mirror travelling in a parallel direction. Marconi found that this could be applied to wireless, the reflectors being suspended aërially. The first transmission of this nature took place between London and Birmingham. It was then that its outstanding value was realised. It required less power, it was less susceptible to atmospheric conditions, tracts of mountains interfered little with its course, it could be relied on for sixteen hours of the day, it required less power for the same signal strength, and it could be kept relatively secret.

Following this discovery, a beam service between England and Canada was established, and later, between England and Sydney. For a while, it seemed that it would displace cables, but a merger between the cables and the beam took place this year.

Wireless Compass.

ANOTHER important development was that of Tossi and Belini—the wireless compass. This is an application of the principle of the frame antenna, which will receive signals strongest when pointing in the direction of the transmitting station. In 1916 the value of this compass was evident by an incident in the Battle of Jutland. When the German fleet was moving rapidly towards the English shores, and the Grand Fleet had been called, it was stated that a wireless compass was the means of a final decision for the Grand Fleet to go to the scene of action. A signal was picked up from a German ship 300 miles distant, and an hour and a half later this had varied by $1\frac{1}{2}$ degrees, showing that the fleet was moving rapidly towards the English coast.

This has been an invaluable discovery for aeroplanes. A small indicator scarcely larger than a cigarette packet is now installed upon aeroplanes flying on certain routes in America and England. Transmitting stations are arranged on these routes so that the strongest path of the signals will be along the route to be taken by the aeroplane. Two reeds within this apparatus indicate whether the plane is moving to one or the other side of this wireless path. The shortening of these reeds indicates that their destination is being neared. They entirely dis-

Community Singing

Christchurch Suggestion

A MEETING of the 3YA Musical and Dramatic Committee was held on August 7. There were present: Mr. W. H. Dixon (Royal Musical Society), Mr. T. W. Dent (Orchestral Society), Mr. G. L. Donaldson (Operatic Society), Mr. M. Richards (Harmonic Society), Mr. A. C. Bretherton (Repertory Theatre), Mr. A. Brewins (Competitions Society), Mr. Geo. Manning (W.E.A.), Mr. L. Slade (station director, 3YA), Mr. C. S. Booth (Broadcasting Company).

There was a useful round-table talk concerning broadcasting and its relation to the work of the various musical societies.

During the discussion the chairman, Mr. W. H. Dixon said that for a long time during the war he was musical organiser for community singing among the soldiers, and that after the war a scheme was devised by the British Broadcasting Company for broadcasting community singing with some wonderfully successful results. At the first performance in London the conductor, before an audience of 10,000, spoke into the microphone asking the people in their homes to join in, and thousands and thousands of listeners carried it on.

Mr. Dixon said that he would like to start this in New Zealand, with the singing of national songs of New Zealand. He hoped that it might be the means of stirring creative artists into composing songs of their own country, and for this purpose he intends writing to Alfred Hill asking for Maori songs and legends.

pear when over the transmitting station. By this means, an airplane can be on time to the minute when land has not been seen since it left its point of origin.

Next week this article will be concluded by an account of the development of picture transmission, radio vision, modern valves, and radio of the future.

Public Trust

Charges Reduced

THE Prime Minister (the Right Hon. Sir Joseph Ward) announces that important reductions in the charges made for legal and administration work performed in the Public Trust Office will take effect as from July 1, 1929.

"The work of the office," said Sir Joseph, "has shown a remarkable expansion in recent years, as the following figures demonstrate:—In 1914 the value of estates under administration totalled £12,282,883; in 1919, £19,242,347; in 1924, £32,404,724; and 1929, £48,334,790.

"On March 31, 1929, the business-exceeded £48,000,000, representing almost a fourfold increase in the last fifteen years.

"Every effort is made to manage the office on an economical basis by the adoption of efficient methods of organisation and the application of business principles. As a result of the very gratifying increase in business, it is now found possible to grant further valuable concessions to clients. Valuable concessions are granted to borrowers of all classes, and specially-reduced fees have been fixed in the case of loans not exceeding £2000 on rural securities. It is felt that the maximum benefit of reduction should be enjoyed by those classes in the community who are least able to afford payment of expensive fees."

Distance Annihilated

Mother Speaks to Son

THE future of two-way communication is reflected in the following incident: Jack Sigrist, an eighteen-year-old apprentice on a Cunard liner, fell down a hold a month ago, and since then has been lying at death's door in the Prince Alfred Hospital in Sydney, making pathetic appeals for his mother, who resides in Gosport, England. Last week the mother was able to speak direct with a hospital nursing sister in Sydney concerning her son's condition, as a result of the intervention of the "Daily Express," London, which had induced the radio section of the British Post Office to place its entire radio resources at the disposal of Mrs. Sigrist, who conducted a trunk call conversation for ten minutes. She learned that her son had had a good day. The conversation was quite audible and created a profound impression in the hospital. During the evening special arrangements were made to enable Sigrist to talk directly to his mother, 12,000 miles away. Wires were taken right into the ward, and the boy greeted his mother most affectionately. She said a few comforting words to him, and the doctors think the conversation will greatly assist his recovery.

The Fruit Crop

Radio Advice to Orchardists

A VALUABLE lecture to orchardists was given from 3YA on Thursday last by Mr. S. Frew, of the Orchard Division of the Department of Agriculture. The lecturer covered his subject comprehensively and concluded as follows:—

Summarised then, the work with fruit trees at present and in the near future is as follows: Firstly, clean up the trees after pruning, by burning all prunings and leaves, and, further than that, dig round the trees to bury anything left as well as for cultivation. Secondly, if there is any scale or red mite in evidence, spray with red oil in the dormant period. Even if they are comparatively clean, an oil spray now is a good preventive and also softens the bark and helps to invigorate the tree for the growing period. Thirdly, in the "green tip," spray with lime sulphur on Cox's Orange and Duns and with Bordeaux on other apples and all pears for black spot. Spray all stone fruit with Bordeaux. In conclusion, it may be mentioned that no spraying is of any value unless it is done thoroughly. Satisfactory results are only obtained by reaching all crevices and sheltered branches with at least a moderate force. Cleanliness is necessary, and to avoid trouble all spray utensils should be washed out after use.

Do You Know?

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ADVISORY TRUSTEES

This is a heading of an interesting folder just issued by the Public Trust Office. It sets out briefly the advantages of appointing advisory trustees in certain instances.

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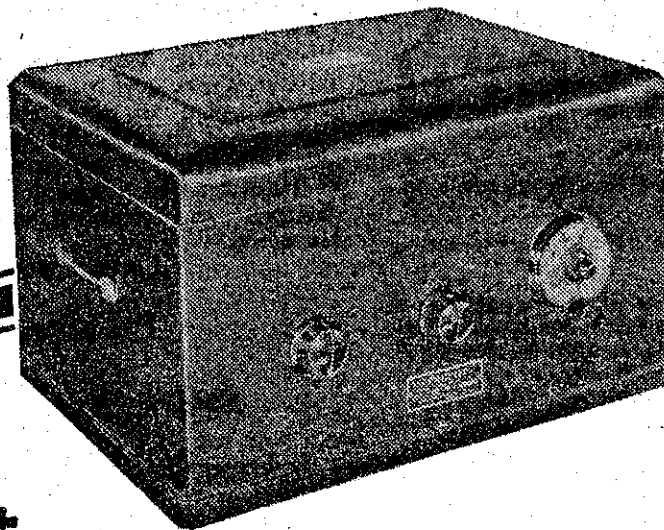
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Literary communications should be addressed: "The Editor"; business communications to "The Manager."

Advertisers are asked to note that alterations of advertisements should be in hand Friday of each week for insertion in the succeeding issue, printed Tuesday, bearing Friday's date. No responsibility is accepted for blocks remaining unclaimed three months after each insertion.

N.Z. RADIO PUBLISHING CO., LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, AUGUST 23, 1929.

EDITORIAL NOTES.

LISTENERS throughout the Dominion are aware that various movements have been on foot in a number of centres for the provision of wireless in public institutions such as hospitals. Great credit is due to those residents in the various centres for the large amount of voluntary organisation that has been carried out to effect this purpose. In the case of Wellington Hospital, an ambitious scheme was formulated, which has had the effect of providing the greater part of the inmates of the institution with wireless equipment. A recent donation of £150 from the T. G. Macarthy Trust will carry that equipment on a further stage to perfection.

IN our last week's issue a brief account was given of the pleasure afforded by the installation of a wireless set in one of the orphanages in Dunedin. This was specially opened, as it were, by Big Brother Bill in a happy and bright ceremony. Stirred by this account Cousin George, who is associated with 2YA, and is keenly interested in the benefits of radio, particularly in so far as they relate to children, has written making the suggestion that the good example of Dunedin should be followed in Wellington, and an effort made to equip those orphanages of this city with wireless that are not so far provided for. This object commends itself to us, and we are prepared to give it not only some financial support, but to endorse it for the consideration of our readers and listeners. The recent exhibition in Wellington showed the hold that radio has upon the individual listener and the community in general. The 7000 people who visited that Radio Exhibition were in themselves an indication of the pleasure afforded by the radio service to the community. We have no doubt that amongst that large number, and also amongst those who were unable to attend, there are sufficient kind hearts who are able to spare such a donation that collectively will make it possible to equip one or more of the orphanages in the Wellington area. We, therefore, commend the appeal made by Cousin George to our readers, and invite contributions towards that object. These contributions may be forwarded in the first instance to ourselves. In determining which of the institutions requiring attention shall be first equipped, we propose to seek the guidance of the 2YA Children's Committee, provided that body will accept the responsibility. For the small sum of £15 it is possible, as Cousin George says, to install a crystal set with a one valve amplifier. Thanks to the proximity of 2YA and its high power this modest equipment could give satisfactory reception in any of the orphanages in the Wellington City and suburbs area. We feel sure that this movement with its modest aim will commend itself to our readers, and that very speedily at least some of the remaining orphanages will be equipped in the fashion desired.

DEFINITE pleasure will be afforded listeners in Christchurch in particular, and throughout the country in general, by the announcement that we make this week that, as from August 26, a dinner session will be introduced at 3YA. An announcement as to a like innovation at 1YA will follow next week, and it is also stated that a din-

ner session will be introduced at 4YA as from the opening of the new station. This prompt fulfilment of the promise made by Mr. Harris at the dinner to radio interests given by ourselves a fortnight ago will please all listeners and radio dealers. The innovation at 2YA proved wholly popular, and we believe contributed largely to the steady and satisfactory volume of trade which has been experienced in the Wellington centre over recent months. Other centres have done good business as well, but we feel sure that the expansion in service now promised will give just that extra fillip which will lead on to steady growth in the number of listeners. We congratulate the Company upon their enterprise, and listeners upon that reward to their patience which has at last come.

"Tales of Hoffmann"

Studio Production of Famous Opera

LISTENERS will no doubt have pleasant recollections of the last performance of the Wellington Orpheus Society, and will be pleased to hear that this talented combination will be heard again on Monday evening. The Society on this occasion will present Offenbach's masterpiece, "The Tales of Hoffmann." The opera is full of charming melody. The famous and ever-haunting "Barcarolle" is well known, as also is the "Doll Song" in a lesser degree, but apart from these numbers, there is the "Mirror Song," sung by Dapertutto; "Dove that I Cherish," sung by Antonia in the third tale; the "Buffo" aria, sung by Coppellius; and a host of other always popular songs and concerted pieces.

"The Doll Song" is a beautiful waltz air. Alas, suddenly the spring runs down and the automaton has to be wound up. (One hears the mechanical noise.) At once the voice is again brilliant, with delightful vocal gymnastics. Little wonder the susceptible poet falls in love.

"Th. Barcarolle," as its title indicates, is a boating song, and the rhythm lends itself to the movement of a swaying gondola. Dreamy and melancholy, the music suggests the still canals of Venice on a moonlight night when lovers drift over those romantic waters.

The Orpheus Society has been fortunate in its choice of soloists, among whom are:—

Mr. Claude Batten
Mr. J. B. Pearson.
Mrs. Amy Woodward
Miss Jeanette Briggs
Miss Gretta Stark

Miss Eileen Higgins
Mr. Charles Edwards
Mr. Ray Kemp
Mr. Dan Foley

The conductor is Mr. Harrison Cook. The Society's very efficient chorus can be expected to give a good account of itself. Miss Hazel Rowe and Mr. H. Brusey will accompany at separate pianos.

Synopsis of the Opera.

JACQUES OFFENBACH was the son of a German-Jewish cantor. He began his career as a violoncello player, and in 1833 came to Paris when seventeen years of age. In time he became the proprietor of a theatre of his own, which he named "Les Bouffes Parisiens." All Europe came to laugh and have their ears tickled by the one and only Offenbach.

Hoffmann is a poet who has been unfortunate in his loves. In turn he has given his heart to a pink and white doll, a courtesan, and a silver-voiced singer. The first comes to pieces, the second laughs and leaves him, the third sings herself to death to please him.

The scene of the prologue is a students' tavern in Nuremberg, where the poet is pleased to boast of these affairs, and the three incidents are pictured in the following three acts, an epilogue ending the play. The evil genius who appears in three different guises, as Coppellius, Dapertutto, and Miracle, is the cause of Hoffmann's disappointment in each case.

Act I introduces us to Olympia, a life-sized and wonderful mechanical doll. She talks and walks and sings. A magic pair of spectacles is given to Hoffmann by Coppellius in order to deepen the illusion. Hoffmann loses his heart, and will not believe that she is not flesh and blood, until the deception is exposed by the doll being broken.

Act II carries us to Venice and the Grand Canal in moonlight. The Lady Giulietta carelessly casts her eyes on the poet. He boasts that he is proof against her wiles, and promptly loses his heart and head. So much so that, thinking to win the lady for himself, he challenges her elderly protector, Schlemil, and kills him, only to find that this suited Giulietta well, as she had another lover waiting for her. Hoffmann sees them floating away in a gondola, while Dapertutto gloats over the situation.

Act III.—Living quietly in the country, trying to recover from a long-lingering complaint, we find the beautiful Antonia of the silver voice. At the risk of death she has been forbidden to sing. To her comes Hoffmann, and as usual falls in love. Urged on by the evil Miracle, she sings. It is a dove, not a swan song, but it is her last. She dies in Hoffmann's arms.

The epilogue tells us that Hoffmann will in future confine himself to wine and song. The students fill their goblets to the brim. The curtain falls upon an uproarious carousal.

Talk on Aviation**Hon. T. M. Wilford
from 2YA**

THE Hon. T. M. Wilford, who is specially interested in aviation, has kindly consented to broadcast a talk from 2YA on September 6, at 9 o'clock, on the subject of "The Skyways as Highways."

Boxing Championship**A Relay from Greymouth**

THE first relay from the West Coast of the South Island will take place on Saturday, August 31, when a ring-side description of some of the finals for the New Zealand amateur boxing championships will be broadcast. Due to the courtesy of the Post and Telegraph Department in view of the special occasion, a line has been made available between the ringside and 3YA, from 8.30 till 10 p.m.

It is safe to say that the receiving set of every boxing fan in New Zealand will be tuned in to 3YA that evening for very great interest is always taken in the New Zealand championships. The relay will also be carried on to 4YA, over a total distance of 842 miles.

Ranfurly Shield**Relays from Masterton**

LAST Saturday, August 17, 2YA broadcast a description of the Manawhenua-Wairarapa match for the Ranfurly Shield. Mr. Edgar M. Wylie, of Wellington, was the narrator at the microphone.

The next match to be described, if a relay line be available, will be Canterbury's challenge for the shield. This is to take place at Masterton on Wednesday, August 28. In this instance 3YA will carry out a rebroadcast of 2YA. The announcer will be Mr. A. R. Allardice.

The Wairarapa Rugby Union has a full quiver of challenges this year, and has courteously granted the Broadcasting Company permission to broadcast as many of them as it can make arrangements to do.

SYDAL—REAL ECONOMY.

This complexion prescription will not cost guineas, but it is invaluable. Sydal, on the proof of 40 years' of public appreciation, is demonstrated as a perfect skin food. Yet it is inexpensive. Small sized jar, 2/- Large size (equal to six small ones), 7/6

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CHARTERED ELECTRICAL
ENGINEER.**

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BOX 606.

Lectures on Esperanto Radio for Orphanages**To be Broadcast from 1YA Proposal by Cousin George
to 2YA Listeners**

COMMENCING on Friday, August 23, and continuing on the two following Fridays from 7.40 p.m. by the Rev. Woolloxall, on "The History and Utility of Esperanto."

Following this, Mr. W. E. G. Wheeler, will deliver a further series of lectures on this subject, commencing September 13.

Maori Pageant**Distinguished Visitors**

DURING the second presentation of the Maori Pageant from 2YA several distinguished visitors were present at the studio. Amongst others, the following officers from the French cruiser Tourville were present:—Captain J. M. C. Abrial, Commander J. H. P. de Bronac de Vazeilles, Chief Engineer F. J. Le Pelch, Paymaster M. J. Le Bras, Chief Surgeon L. J. B. Darleguy; also Commodore Swabey, D.S.O., Captain Frase, D.S.O., Commander Morgan, Paymaster-Commander Webster, and General Young.

"Galapagos"**Broadcast by 2YA, 3YA,
and 4YA**

ALL those who heard "Galapagos" when presented at 1YA some months ago acclaimed it as one of the finest entertainments ever broadcast. Numerous requests for a repetition were received. There will, therefore, be great interest in the announcement that on Friday, August 30, it will be presented at 4YA, and that on Friday, September 6, it will be broadcast by 2YA and 3YA.

"Galapagos" concerns the wreck of a ship on the island of that name, and the dramatic atmosphere of the story is created by the singing of sea chancies, the sound of ships' bells, noises incidental to shipboard, the surf on the reef, etc. These effects are very realistic.

4YA is taking advantage of the occasion to prepare a seafaring programme for the first half of the evening. Sea chancies and other songs of the sea will be sung. The cast of characters for "Galapagos" will be: Red Peterson, Major F. H. Lampen. Svenson, Mr. Allan Young. The Captain, Mr. J. B. McConnell. Betty, Miss Anita Winkel. Hans, Mr. Frank Parsons.

Other members of the crew, Mr. O. Garden, Mr. E. G. Bond, and Mr. R. B. Macdonald.

The 1YA presentation was under the direction of Mr. J. F. Montague and his able lieutenant, Mr. George Warren. These two gentlemen will be responsible for the production at 2YA, and there will be the same noises and effects which made the 1YA presentation so successful.

(To the Editor.)

SIR,—I notice in your last issue an account of a happy ceremony of installing a wireless set, presented by a Bible class, in one of the orphanages in Dunedin.

One is at once stirred by the fact that by means of the radio happiness and amusement is brought within reach of the orphans by this splendid act. We all realise what radio means to us and how much more it must mean to those in orphanages and similar institutions. What a treat it is to them to be placed on the same footing as those children who have their own homes and are provided with all the comforts which come from the home life.

My reason particularly for referring to this is that in Wellington we have similar orphanages where there are children with similar tastes and wants to those in Dunedin. Happily some of the orphanages in Wellington have been provided with radio sets, and we know the joy and pleasure that has been added to their lives.

But again, there are others who are not so fortunate, and I think that if we have any feelings of sympathy with these children, it is up to us to do all we can to remedy this.

The cost of, say, a crystal set with one valve amplifier installed, should not exceed £15. Following on the line of what has been done in Dunedin, the Bible classes of each institution connected with an orphanage might make this one of their "Good Deeds," thus experiencing the satisfaction of having done something towards giving happiness to others.

I sincerely trust this scheme will be taken up in Wellington and come to a successful conclusion.

Yours sincerely,

"COUSIN GEORGE"

The Idea Approved

THIS proposal appeals to the "Radio Record," and we open the campaign with a donation of £2 2s. The matter is discussed in our editorial columns, where we invite readers to co-operate. The guidance of the 2YA Children's Committee will be sought in determining the orphanage or orphanages not yet equipped in which installation is to be made. We hope to see all orphanages ultimately equipped. Contributions may be sent to our care, when they will be duly acknowledged in our columns.

An Elgar Evening

STATION 1YA is arranging an "Evening with Elgar," when the programme will be composed of works by the famous British musician. The date chosen is September 24.

English Folk Songs**Lecture-Recital from 3YA**

TAKING advantage of the visit to Christchurch of Mr. Will Hutchens, while en route to adjudicate at the Ashburton Competition, 3YA has engaged him for a lecture-recital on Wednesday, September 4.

Mr. Hutchens is a well known Wanganui musician. The theme of his lecture will be "Old English Folk Songs," and he will sing or plan the songs to illustrate his lecture.

The song numbers will be taken from:

"Summer is leamen in"
"Whereto Should I Express"
"Wraggle Taggle Gypsies O"
"Three Blind Mice"
"Oberon"
"O No! John"
"Cornish May Song"
"Widdicombe Fair"
"Lincolnshire Poacher"
"Tobacco"
"Sally in Our Alley"
"Dashing Away with a Smoothing Iron"

In addition to these numbers, Mr. Hutchens will play as a violin solo his own adaptation of the old folk song, "The Spanish Lady."

An extra attraction to this evening's programme at 3YA will be the appearance of Mr. J. F. Montague. He will present a one-act play, "Devil's Rock," a prize-winning entry by Miss Betty Kerr, Timaru, in the 1YA Radio Play Competition. A humorous number will also be given by Mr. Montague.

She'll Hear You!

AT a Wellington suburban house during the children's session on Saturday evening a novice listener had the 'phones on, and a crystal enthusiast was explaining Aunt Gwen's charming manner with the young folk when she was interrupted with: "Sh-h-h! She'll hear you!"

FIRST N.Z.

RADIO BALL

TAKES PLACE ON

TUESDAY NEXT, Aug. 27.

IN THE

**Majestic Theatre Ballroom
Wellington**

8.30 p.m.—2.0 a.m.

(Organized by Mr. Edward Silver—artist 2YA.)

**Claud Hoare's All Star
Versatile Dance Band**

And a Full

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Leading Radio ArtistsTICKETS: 8/6 single; 15/- double.
Including Supper.**Do not Miss this Great Event!**

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Modern Barter

"Phones All Over the 2YB, New Plymouth House"

Radio Ball

A Horse for a Radio

Crystal Set User's Appreciation

Schedule of Hours

Arranged for August 27

AN amusing echo of the old-time bartering system reaches us from Hamilton, Ontario.

A farmer came to the city wishing to trade in an old set for one more up-to-date. He was attracted by the sight of a radio set exhibited in a sales window. Entering the store he made inquiries as to its virtues, etc., saying that he would like to trade in his old set. When told the cost of the transaction, however, he shook his head sorrowfully.

"I haven't that much in ready money," he said regretfully. Suddenly a bright thought struck him, and he added: "But I've a fine horse! I'll trade you the horse and the old set for your radio!"

The salesman, recovering from his surprise, agreed that if the farmer would bring the horse along, he would see if business could be done. The farmer brought the horse, and the salesman pronounced himself satisfied, and the bargain was struck, an unusual hark-back to the old pioneer days of barter. A horse for a radio!

THE so-called "humble crystal set" has a stalwart champion in the Christchurch listener who wrote to Aunt Pat, of 3YA, as follows:—

"May I congratulate you on the children's session and on the efforts of the YA stations generally. For approximately 9d. a week it is nothing short of wonderful. So far I boast a crystal set only, but have 'phone points all over the house. The enjoyment the whole family and an invalid grandma get out of it is simply great. It is very surprising the unfounded prejudice many folks have against them. Some are undoubtedly crude. But where one has a pair of terminals dotted all over the house, in bedrooms, in sunny windows, etc., it is quite splendid."

Wellington Society

Monthly Meeting

THE Amateur Radio Society of Wellington held their monthly meeting at the Cambridge Terrace Congregational Church Schoolroom on Tuesday evening, August 13.

Mr. I. M. Levy (vice-president) occupied the chair, and there were about twenty present.

Donations were acknowledged as follows:—Mr. Byron Brown, £5; Mr. J. H. Owen, £1 1s.; Mr. D. A. Aitken, £2 2s.; Dr. G. W. Harty, £1 1s.; Dr. H. B. Gibbs, £1 1s.; Mr. H. A. Firth, 10s.; Mr. H. D. Bennett, 10s.

It was carried unanimously that the secretary of the Post and Telegraph Department be written to intimating that considerable interference with broadcast listening was experienced by local licensees from warship Morse transmission by a ship at Wellington. It was explained that merchantmen were prohibited from transmitting while in port, but this veto did not extend to warships, and unfortunately for radio licensees the warships took the fullest advantage of this privilege, even during local broadcast sessions.

The honorary secretary was instructed to communicate with the general manager of the Broadcasting Company, suggesting the holding of vocal, instrumental, and laughing competitions.

Mr. Levy was requested to submit a proposal to the Musical and Dramatic 2YA Advisory Committee that, in order to obtain a greater variety of performances in each programme, each artist be limited to one item per programme.

Mr. Colin W. Smith, technical editor of the "Radio Record," gave an instructive and interesting lecture on the progress of radio from its beginning to the present day. He also brought an interesting display of radio valves, which were handed round. At the conclusion of his lecture, Mr. Smith was accorded an enthusiastic vote of appreciation and thanks. This address appears elsewhere.

THE official schedule of hours of station 2YB, New Plymouth, is as follows:—

Mondays—8-10 p.m., studio concert.
Wednesdays—6 p.m., children's session.
7 p.m., news session.
8-10 p.m., studio concert.
Saturdays—6-7 p.m., children's session.
7-8 p.m., sports news and information.
Sundays—6-6.45, children's service.
8.15-9.30, studio concert.

"The Holy City"

Hamilton Relay

ON Wednesday evening 1YA will relay a performance of Gaul's cantata, "Holy City," from St. Paul's Methodist Church, Hamilton. The treatment of the subject of this work is almost entirely reflective, the more dramatic parts of the book, from which many of the numbers are taken, for example, "The Vision of St. John," having already been treated in so masterly a manner by the great German composer, Louis Spohr, in his oratorio, "The Last Judgment."

The first part of the "Holy City" was suggested by the passages of Scripture, "Here we have no continuing city," "Thy Kingdom come," and sets forth the desire. It is followed by other passages expressive of the perfection of the higher life, such as "Eye hath not seen."

The second part was suggested by the words, "I saw a new heaven and a new earth, for the first heaven and the first earth were passed away," thus realising the desire and promises contained in the first part. With the exception of two hymns and a verse from Milton and three verses from the Te Deum, the words are entirely scriptural.

The conductor and organist will be Mr. T. S. Webster, well known to Auckland listeners as a solo organist from 1YA about two years ago.

Visitors to 2YA

RECENTLY arrived in New Zealand by the s.s. Canadian Highlander, Mr. G. S. White writes to 2YA from Auckland:—

"Having listened to your programmes for the last week or so while en route from Canada, I feel constrained to state that seldom, if ever, have I heard programmes regularly of such quality from any American or even Canadian station. One cannot help noticing the quality of those who entertain and of the broadcasting itself, also the absence of much jazz, for which we are truly thankful. With best wishes for continued success."

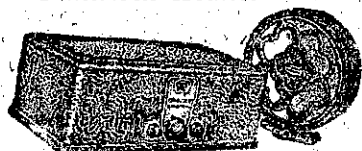
Ahead of Her Time

IN Paris recently a young lady walked into a telegraph office and tried to file a message to Mars which asked for radio correspondence from a serious young Martian gentleman of good family. The clerk refused to accept the message, so this persistent young lady wrote to the Director of State Telegraphs, who, having a sense of humour, quoted her a rate less than the deferred cable rate to New York (says a Paris magazine).

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Dinner Session Introduced at 3YA.

COMMENCING on Monday, August 26, a Dinner Music Session will form part of 3YA's schedule of daily broadcasts. It was on April 29 that a similar special session was inaugurated at 2YA, and the three months' test has proved that it is greatly appreciated by listeners, not only in the towns, but also in the country. The General Manager of the Broadcasting Company intimated at the dinner given by the "Radio Record" on August 9 that the Company would introduce as soon as could be arranged a Dinner Music Session at each of the other stations, and no time has been lost in putting the proposal into effect.

The 3YA session will follow on the same lines as that at 2YA. The session will commence at 6 o'clock, and will consist of four periods of approximately ten minutes, commencing precisely at 6 p.m., 6.15, 6.30 and 6.45. These periods will, therefore, be separated by a silence of several minutes. Specially selected and arranged gramophone records will provide the music, and there will be no announcements, save the superimposing of the station's call-sign, for the Regulations require that the name of the station be announced every quarter of an hour.

The introduction of the Dinner Music Session at 3YA means an alteration in the hour of the Children's Session. This will in future commence at 5 o'clock instead of 6.

An announcement regarding 1YA will be made next issue. In respect to Dunedin, the Dinner Music Session will be introduced following the official opening.

MONDAY, AUGUST 26, 1929.

- 6.0: Dinner session:
Orchestral—Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli) (Zonophone record EF12).
Violin solo—Jacque Thibaud, "Valse" (Brahms) (H.M.V. record DA 866).
6.11: Tacet.
6.15: Band—National Military Band, "Ballet Egyptien" (Luigini) (Zonophone record A354).
Saxophone solo—Rudy Wiedoeft, "Valse Mazanetta" (Wiedoeft) (Columbia record 01176).
6.26: Tacet.
6.30: Orchestral—J. H. Squires's Celeste Octet, "T'ignion"—(1) introduction et Romance; (2) Polonaise (Thomas) (Columbia record 02749).
Violin solo—Jacque Thibaud, "La Fille aux Cheveux de lin" (Debussy) (H.M.V. record DA886).
6.41: Tacet.
6.45: Waltz—Symphony Orchestra, "Artist's Life" (Strauss) (Columbia record 02577).
Saxophone solo—Rudy Wiedoeft, "Minuet" (Beethoven) (Columbia record 01176).
Waltz—Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (Columbia record 02577).
6.56: Tacet.

WEDNESDAY, AUGUST 28, 1929.

- 6.0: Dinner session:
Orchestral—Classical Symphony Orchestra, "Carmen" selection (Bizet) (Regal Record G30009).
Cello solo—Pablo Casals, "O Star of Eve" (Wagner) (H.M.V. record DB1012).
6.12: Tacet.
6.15: Waltz—San Francisco Symphony Orchestra, "Valse de Concert" (Glazounoff) (H.M.V. record D1492).
Instrumental—Dajos Bela Trio, "Simple Aveu" (Thome) (Parlophone record EI0580).
6.27: Tacet.
6.30: Selection—Weber's Orchestra, "Faust" (Gounod) (H.M.V. record C1511).
Cello solo—Pablo Casals, "Prize Song" (Wagner) (H.M.V. record DB1012).
6.41: Tacet.
6.45: Instrumental—Dajos Bela Trio, "Meditation" (Massenet) (Parlophone record EI0580).
Selection—Court Symphony Orchestra, "The Gondoliers" (Sullivan) (Columbia record 979).
6.57: Tacet.

THURSDAY, AUGUST 29, 1929.

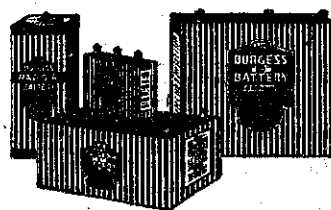
- 6.0: Dinner session:
Orchestral—Budapest Philharmonic Orchestra, "Hungarian Rhapsody No. 1 in F" (Liszt) (Columbia records 02728/9).
6.12: Tacet.
6.15: Pianoforte solo—Wm. Murdoch, "Liebestraume" (Liszt) (Columbia record 02538).
Orchestral—San Francisco Symphony Orchestra, "Caprice Viennois" (Kreisler) (H.M.V. record D1272).
Violin solo—Yelly D'Aranyi, "Poeme Hongroise" (Hubay) (Columbia record 03584).
6.27: Tacet.
6.30: Orchestral—New Light Symphony Orchestra, "Spanish Dances" (Granados)—(1) Orientale; (2) Andalou; (3) Rondalla (H.M.V. records 03584).
6.42: Tacet.
6.45: Orchestral—New Light Symphony Orchestra, "Triana" (Albeniz-Arbo) (H.M.V. record C1554).
Pianoforte solos—Wm. Murdoch, (a) "Waltz in A Flat" (Brahms); (b) "Spring Song" (Mendelssohn) (Columbia record 02568).
Orchestral—San Francisco Symphony Orchestra, "Coppelia Ballet" (Delibes) (H.M.V. record D1272).
6.57: Tacet.

FRIDAY, AUGUST 30, 1929.

- 6.0: Dinner session:
Instrumental—Dajos Bela Orchestra, "Electric Girl" (Helmburgh-Holmes) (Parlophone record A4009).
Wurlitzer organ solos—Reginald Foort, (a) "Leave Me Alone" (Dvorak); (b) "Songs My Mother Taught Me" (Dvorak) (H.M.V. record C1459).
Waltz—Jacque Jacobs Ensemble, "L'Estudiantina" (Waldteufel) (Columbia record 02560).
6.12: Tacet.
6.15: Orchestral—Salon Orchestra, "Nola" (Arndt) (H.M.V. record B2169).
Orchestral—Dajos Bela Orchestra, "Eldgaffeln" (Landon) (Parlophone record A4009).
Hawaiian—Ferera's Hawaiian Sextet, "Under the South Sea Palms" (waltz) (Parish) (Columbia record 3525).
6.26: Tacet.
6.30: Waltz—Jacque Jacobs Ensemble, "España" (Waldteufel) (Columbia record 02560).
Orchestral—Salon Orchestra, "Glow Worm Idyll" (Lincke) (H.M.V. record B2169).
Wurlitzer organ solo—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelby) (H.M.V. record C1459).
6.41: Tacet.
6.45: Orchestral—Reg. King's Orchestra, "Garden in the Rain" (Gibbons) (H.M.V. record B2903).
Hawaiian—Ferera's Hawaiian Sextet, "Moana Chimes" (Motzan) (Columbia record 3525).
Orchestral—Reg. King's Orchestra, "The Song-I Love" (De Sylva) (H.M.V. record B2903).
Novelty—Balalaika Orchestra, "Shining Moon" (Russian folk song) (H.M.V. record EA48).
6.58: Tacet.

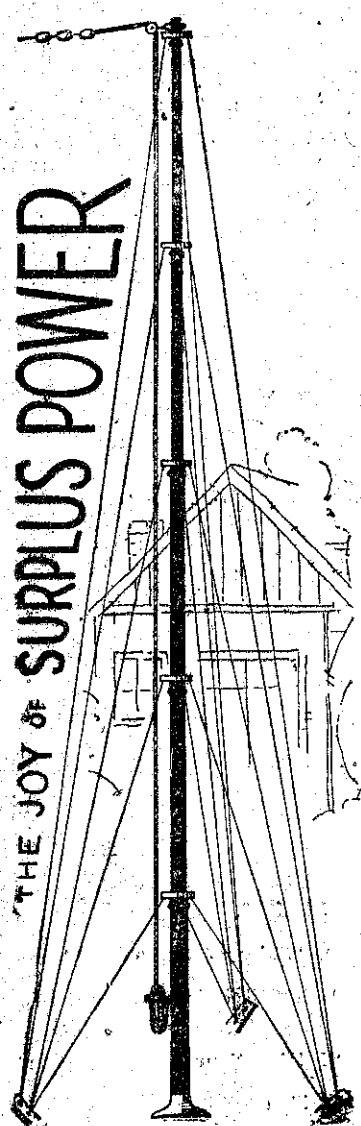
SATURDAY, AUGUST 31, 1929.

- 6.0: Dinner session:
Orchestral—Paul Whiteman's Orchestra, "Suite of Serenades" (Herbert) (H.M.V. record EB26).
Wurlitzer organ solo—G. T. Pattman, "Firefly" (Nicholls) (Columbia record 01348).
6.11: Tacet.
6.15: Orchestral—Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Irwin) (H.M.V. record C1616).
Marimbas—Marimba Serenaders, "Paree!" (Padilla) (Regal record G20344).
Medley waltz—Troubadours, "Popular Songs of Yesterday" (H.M.V. record EB33).
6.26: Tacet.
6.30: Wurlitzer organ solo—G. T. Pattman, "Rosale" (fox-trot) (Wale) (Columbia record 01348).
Waltzes—Jack Hylton's Orchestra, (a) "Spanish Rose" (Pearson); (b) "The Angelus Was Ringing" (Damarell).
Marimbas—Rio Marimba Orchestra, "Dolores Waltz" (Waldteufel) (Regal record G20344).
6.42: Tacet.
6.45: Orchestral—Jack Hylton's Orchestra, "When the White Elder-tree Blooms Again" (Doelle) (H.M.V. record C1616).
Selection—Debroy Somers's Band, "Desert Song" (Romberg) (Columbia record 02700).
6.56: Tacet.



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AN American taxi-cab company is trying out a very ambitious scheme, that of providing each taxi with a wireless receiver, with the idea that if a man wants a cab and cannot find one, he telephones to the company, who thereupon broadcasts a call to the taxi which is supposed to be nearest the client. What happens if the

combined with it an all-electric radio set and gramophone. However, the price of this unique combination is well outside the range of the average man's pocket.

THE new broadcasting house in Munich is said to be the most luxurious in the world. There are five studios in

ANNOUNCEMENT OF SPECIAL INTEREST.

Our issue of September 20 will be a **SPECIAL ALL-ELECTRIC** number. This will be of outstanding value to all constructors and owners of all-electric sets. Three articles will be of outstanding interest:—

1. The full constructional details of an all-electric receiver.
2. Details of how to construct an A.C. push-pull amplifier to work from any set or pick-up.
3. Changing over the set from D.C. to A.C. operation.

Remember the Date, and Secure Your Copy:
SEPTEMBER 20.

aforesaid taxi is engaged is not stated. Obviously, even if he hears the call he cannot answer—except under his breath.

ONE of Switzerland's blind spots is at last to receive the light of broadcasting. The district affected is the canton Tessin, which is an Italian-speaking part of Switzerland. The transmitter has been built on Mount Ceneri and local listeners are now able to hear programmes relayed from other Swiss stations. However, the new station is engaged in building a studio to provide its own programmes.

THE Detroit police have been successful in effecting 605 arrests in the last three months, thanks to the radio equipment installed on their eight patrol cars. Some of these arrests were effected 30 seconds after the information was sent out.

TWO German trans-Atlantic air liners are soon to be equipped with receiving apparatus of a kind that will make it possible for passengers to have an illustrated paper published on board.

A LARGE motor manufacturing concern in the United States has designed a model de luxe which carries a receiving set. No part of the set is visible at all except a small loudspeaker. The aerial is hidden in the roof of the car, and the directors report that the innovation has proved very successful.

IN a recent American Radio Exhibition great interest was aroused over a table-grand player-piano, which had

constructed by him is far superior to any other known set, and the inventor hopes soon to be able to broadcast a whole picture from the theatre.

CANADIAN navigation, which has hitherto employed the siren as a signal in dense fogs, has had this instrument replaced by radio sets. They are so equipped that they can, day and night, inform nearby ships of their exact position. The Department of Navigation Affairs in Ottawa prophesies that in 20 years hence the noise of the siren will be but a thing of the past.

AT the studio in Munich there are employed three microphones, one for the first violins, one for the second violins, and the third is placed at a certain distance from the whole orchestra. The result is said to be a vast improvement on the single microphone.

THE Hotel Cartaret, situated in the heart of New York, has now been equipped with a Baird television apparatus. This hotel is the first public establishment to have such an installation. Preliminary experiments have been found to be successful, and the images have been reproduced correctly.

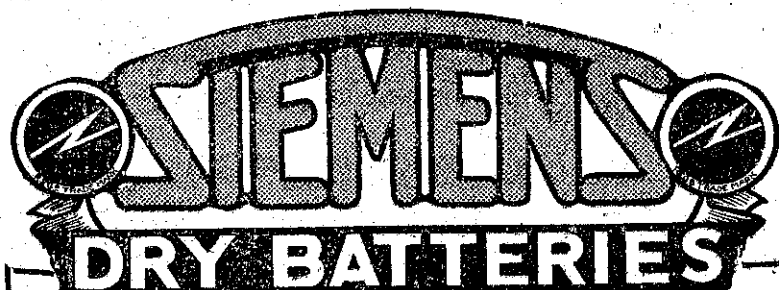
ALTHOUGH the population of Italy is nearly 40,000,000, there are only 51,000 licensed listeners. This shows an increase on the previous year of 10,000, but even now Italy is second from the bottom in the list of countries with their listeners graduated per centum. She is beaten for bottom place by Rumania, who seems loth to encourage radio.

A MIDGET radio transmitter weighing slightly more than a portable typewriter and occupying less space, has been devised for the use of flyers by experts of the United States Coast Guard. This machine is at present being tested by the American Aviation Office, and if the experiments are successful it will become a part of the equipment of all coastguard seaplanes.

A RECENT development in American radio is the introduction of radio in schools. The State of Texas seems to be the furthest advanced, as it is reported that radio there takes the place of teachers altogether. In this state there is a great scarcity of members of this profession, but it would seem that this substitution would be of little use, since in teaching, at least, the personality of the teacher is the "piece de resistance" of education, and surely the loudspeaker is a poor substitute for this.

EXPERIMENTS are being carried out with regard to the Warren system of metallizing non-conductive substances. This method is being employed in making the internal screens in valve sets, and has this great advantage, that the close incorporation of the film and the base makes it almost impossible for peeling to take place even in the most variable of temperatures.

SENSATIONAL developments are reported in connection with television experiments made by Professor K. Takayanagi of Japan. The apparatus



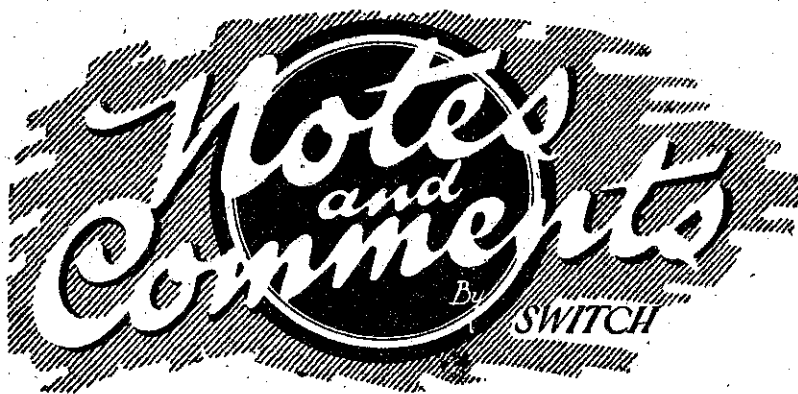
DURING his lecture before the Wellington Radio Society the other night, Mr. Colin W. Smith stated that Mr. H. Gernsback, editor of the New York "Radio News," had said that the present systems of radio-vision were so unsatisfactory that they would have to be scrapped and a fresh start would have to be made to solve the problem of vision by radio. Those listeners who are clamouring for radio-vision should bear this in mind and wait patiently till the thing has been developed sufficiently to become a practicable proposition for the masses.

"**SWITCH**" has been asked "On what wavelength does broadcast station 6WF, Perth, transmit?" This station employs two wavelengths, 1250 metres and 104.5 metres. Owing to the great distances to be spanned in the western state it was found necessary, according to broadcast experts, to use the rather long wavelength of 1250 metres which was said to be less susceptible to fading. The Commonwealth Government, however, has agreed to an alternative in the wavelength of 6WF, Perth, which, from September 1, will operate on a wavelength of 435 metres. The change will necessitate a slight alteration in the wavelength of 2FC Sydney, which will be announced shortly.

NEW Zealand listeners will be interested in the news that the Australian Commonwealth Government has decided on an extensive scheme for erecting additional broadcast stations. In an interview at Melbourne, recently, Mr. H. P. Brown, of the Commonwealth Radio Department, stated that the final programme of the Government for the next four years includes the establishment of 12 more broadcasting stations in Australia, increasing the present number to 20. The first of the new stations will be in the Newcastle district, and although a tentative scheme has been prepared, fixing the locations, these locations will not be disclosed until each new station is determined upon.

MR. Brown explained that the sites for the new Australian stations have been chosen with a view to giving service to the whole community after a comprehensive study has been made of the population densities and the natural characteristics of the country from the point of view of their effects on the radiation of energy. The scheme decided upon will give a reasonable field intensity of the radio signals to about 90 to 95 per cent. of the population. The construction of stations will necessarily occupy some time, and the cost will be somewhere about £750,000.

FROM all directions "Switch" learns that the Australian stations are now coming through in splendid style, night after night, but Wellington listeners located close to the city have been subjected to a bombardment of morse from the cruiser Dunedin, while lying at the wharf at Wellington. The transmitter on the cruiser has not only a powerful set of harmonics but sends out intermediate waves which appear in many places on broadcast listeners' tuning dials. "Shock excitation," owing to proximity, is probably the cause of a good deal of interference from warships in port.



THE proposal that a laughing competition be conducted at 2YA, Wellington, emanating from the Wellington Radio Society, was tried out with not a little success at a couple of the Australian stations. It would be a wise precaution, however, if such a competition were conducted at 2YA, to put the competitors through preliminary tests before allowing them to go on the air. Listeners would then be protected from having their ears assailed with those asinine guffaws which generally pass for laughs. A suggestion has been made to "Switch" that only the best three competitors be permitted to go on the air.

IN connection with Mr. Colin W. Smith's lecture on the history of radio at the recent meeting of the Wellington Radio Society, as far back as 1838, Professor Joseph Henry, of Princeton University, U.S.A., discovered that when he discharged condensers by allowing a spark to jump from one coating to the other—his condensers were Leyden jars (glass bottles coated inside and out with silver foil)—sparks also appeared at the discharging gaps on other jars several feet away. Undoubtedly Henry realised that he had found a means of producing electrical effects at a distance, but land telegraphy at that time (nearly a hundred years ago) was in its infancy, and he made no attempt to adapt his discovery to the problems of communication.

A **DRAMATIC** enthusiast has propounded a theory to "Switch" that listeners would relish far more broadcasting of playlets, and he submitted the script of a number of smart little sketches. After perusing these "Switch" was struck with their unsuitability for broadcasting as not a little depended upon the action of the playlets. Radio requires quite a different technique to that of stage productions. It must always be borne in mind that the radio audience can only hear and not see the performers. The playlet involving that episode in a coal mine, broadcast by 2YA a little while ago, was a classical example of a suitable production for radio.

WITH recently-added improvements and refinements, the modern broadcasting station is becoming a more expensive proposition to erect and install. Those who lightly talk of erecting an up-to-date broadcasting station can have no idea what they now cost. Mr. O. H. Caldwell, speaking authoritatively before the Connecticut Chamber of Commerce, lately, stated that a modern 5000-watt broadcast sta-

tion costs £80,000 to install, and the cost of a 50,000-watt station runs into from £50,000 to £75,000. These figures are also published by the New York "Radio News."

THE results of the Christchurch race meeting were loudly received last week in Wellington from 3YA, Christchurch, daylight reception from the southern station being always available with good loudspeaker volume from multi-valve sets. There is no fading during daylight, and 3YA comes through with marked clarity.

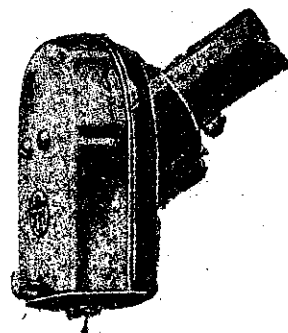
A **VALVE** with the glass bulb loose in its base was handed to "Switch" last week for "medical" at-

tention. A simple method of treatment was applied. A fair-sized hole was bored under the base in the exact centre between the prongs. Sealing wax was melted in a spoon over a gas flame, and then poured through the prepared hole in the base of the valve. When the sealing wax had cooled the glass bulb was as solid as a rock in the base. This is an old cure and an easy and reliable one.

THE crowds watching these wrestling matches in Sydney can be heard with great volume when 2BL is broadcasting a ringside description. Peculiar how some folk get so worked up. The writer has a friend who sat beside the father of a boxing contestant during an affair at the Wellington Town Hall. The father became so carried away that he was handing out hooks, jabs, jolts, slams and swings so that the writer's friend was black and blue around the ribs when the contest was over. He declines to sit beside the said father in the future.

A **LOUDSPEAKER** which persisted in rattling was recently brought to "Switch" for a diagnosis of the trouble. The speaker was of a high-class make and an electrical test proved that there was nothing wrong in that respect. An internal inspection disclosed that some minute fragments of strawboard had collected around the armature and was causing the rattle.

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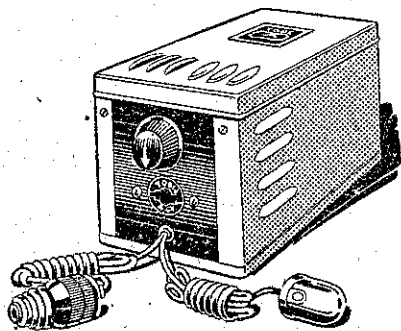
IN the August 9 issue of this paper "Crystal" (Dunedin) stated that he had received 2YA several times on a crystal set. I would be very much obliged if "Crystal" would send me diagrams and particulars of this set. He could send them direct to "Crystal Fan," P.O. Box 263, Dunedin, if he wishes.—"Crystal Fan."

News Over the Air.

WHY the dearth of much local and general news from 3YA? On listening to Saturdays' and Mondays' news sessions I find practically none of the general news of our city. We certainly hear much about shipping, sport and market reports, these three taking approximately 25 minutes on Saturday and 17 minutes on Monday. Very often lately the session has been drawn out towards 7.45 p.m., yet on looking up the papers later we find the main pages full of news, never a word of which was breathed over the air. In Saturday evening's paper various events as follows may be read, none of these being put on the air:—Flight of Graf Zeppelin, Christchurch Winter Show, peering for Chief Scout, fires at D. H. Brown's oil-store, and Combined Buyers, fire at a Wellington theatre, death of Jack Cannott, and much other news of general interest.

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Will correspondents please practice brevity, as heavy demands are now made on space. All letters must be signed and address given as proof of genuineness; noms de plume for publication are permitted. Address correspondence Editor, "Radio Record," P.O. Box 1032, Wellington.

people at the present time in the surrounding districts are taking a grave interest in the numerous acts of incendiaryism in this city, yet never a whisper of it is put on the air. I am asked for information numerous times daily by country people who do not obtain their papers till they are many hours old. Dozens of these people own receiving sets, and are ever anxious to hear the latest news, but the R.B.C. isn't doing very much to let them have it.

Another little complaint about 3YA. Two or three times a week various noises, more like an hilarious party than anything else, burst forth during the news session. Evidently someone in the studio having a jamboree, but surely the cure should be simple.

The concert portions of the programmes have been steadily improving from all YA stations. The recent relay from Wanganui put on by 2YA was splendid. Likewise of great interest were the rebroadcasts of the All Blacks' matches.—License 129615 (Christchurch).

[Most of the important news such as cited by our correspondent is copyright to the Press and consequently cannot be announced over the air. Probably if these items are examined it will be found that they are marked "Press Association—Copyright."—Ed.]

On Various Views.

I WAS listening in last night to 3YA to the service (Presbyterian), and it was remarkably fine and clear, and found it came from Timaru. I was very pleased. After the service I turned to 1YA to get Whangarei, and although it is only ten miles from me, I was disappointed. The reception was not good, rather in and out, but I expect it will be all right for the listeners down south. The All Blacks' transmission has been very fine; that man at the "mike" in Sydney is a marvel, the way he familiarised himself with the men, so that he never made a mistake with their names, especially when they must look so much alike. As you did not broadcast Brisbane, I tried to get it myself, which I did, but the description was very poor, the describer did not know their names and was not worth listening to.

I have been greatly interested in the Mailbag, especially on heated subjects, on which so many are so ready to speak for the majority. My experience in life has proved to me many times that really the only one I can really vouch for is myself.

A little while ago someone was complaining of dinner music being too high

class; have jazz. Now when I wrote last year complaining about too high class music I certainly did not mean the class of music you put on at 6 p.m., which is just my taste. Those instrumental pieces are the kind I call "well-bred" music, neither over our heads nor too low down. And I must say I do like the records put on. When one thinks of the way these people plan to make them sell, it stands to reason they get the best talent possible and also find out the best instruments to accompany.

Having fixed our ground wires again recently I find we can get Christchurch during the afternoon and far stronger at that time than Wellington, strange to say. I am greatly elated over that, because I was not able to get it before, but we have eleven grounds.

The Auckland Little Theatre people are very good. I listened to the "Bird in Hand" with great pleasure.

2YB, New Plymouth, comes in here very strong and pleasingly.

I wish 3YA, Christchurch, would do more Dunedin relaying. I just turned there one evening and heard the finish of some minstrels they were relaying from 4YA. I was sorry I had not turned on before, but, of course, Wellington is the station for us, as it is generally so reliable and strong enough to cut out static.—L. Hill (Mangapai).

P.S.—Had to open my letter to send along my appreciation of the Wanganui concert. "It was the best ever." Quite puts Wellington Municipal and Sunday concerts in the shade. I fancy the Opera House, Wanganui, must have been built for broadcasting, as it was clearer in my room than anything else except the Timaru church service on Sunday, that I have heard for a long time. The elocution was wonderful. I heard every word.

Mystery Play Enjoyed.

I WOULD just like to say how much we enjoyed the play on Monday night. It came through splendidly, and we enjoyed every minute of it. A nice change from the ordinary programme, and we would like a few more. We are looking forward to the Maori pageant. Why not give us a few more Maori concerts? The Otaki Maori concert was splendid, and I'm sure everybody appreciates Maori music and haka, etc.—"Country Mouse," Raetihi.

The Morse Nuisance.

IS anything going to be done to put a stop to the intolerable Morse nuisance? As things are, it is a case

of "Every programme ruined by Morse." Before we paid our licenses for this year the announcer told us that it was only a temporary disturbance caused by the warships in the harbour prior to their dispatch to Samoa. But the warships have been and gone and the bother is worse than ever.

All I can say is that I, and other musically-trained subscribers, have no intention of renewing unless this strident discord is stopped. We understand that it is perfectly feasible for the Morse to be tuned out by the authorities (at some little expense), and, in any case, the noises at times stopped down to something comparatively reasonable, so that shows the possibility of keeping it within bounds at once.

Will you be so good as to deal with the matter?—M.L.G.

[The warships are back again—and that's the trouble. We are sending a copy of your letter to the commander, and hope he has a soft heart.—Ed.]

Another Plea.

IN the "Radio Record" of July 26 your correspondent, "Churchgoer," states that his little girl, six years of age, asked him to write and ask to have some of the church services held on Sundays replaced by musical items. Well, does he think that the R.B.C. is going to be told what to do by a girl of six? Besides, the church services are not broadcast for young children; they have their own special hour. I ask "Churchgoer" to tell us how often this thing occurs. He signs himself "Churchgoer," yet he evidently listened to all the services. When did he go to church? Now "Churchgoer," seeing you have written at the request of a little girl of six, perhaps you will stop complaining at the request of a much older person.—"Aco."

Maori Pageant.

MAY I express the sincere pleasure of myself and family of Maori pageant from 2YA last evening.—R. B. Schofield (Hastings).

I HAVE been a constant reader of the "Record" since its inception, and have oftentimes been more than amused by the letters, both of approval and disapproval, which have appeared therein. It does not require more than the average amount of intelligence to realise how impossible is the task of pleasing everybody; that is beyond the power of any ordinary man, so all one can do is to do the best they know how and leave the result in the lap of the gods. Personally, I am more than satisfied that the annual license is the best investment I ever made, and assure you I am more than satisfied by the efforts so successfully put forth to provide both items of interest, amusement, and education. I consider that the programme put on the air last night—viz., "The Maori Pageant"—was one of the finest efforts ever put forth by 2YA and have to tender my thanks for same. Possibly this may help to balance some of the hard things which are unjustly hurled at you. You were fortunate in the night also, as there was a complete absence of static or other atmospheric disturbance; in fact, it was a night out of the box. Best wishes for continued success.—Chas. J. Champness (Frankton).

Broadcast Music for Coming Week

"'Tis the deep music of the rolling world,
Kindling within the strings of the waved air—
Aeolian modulations."

—Shelley.

By
Bolton
Woods

A Vivid Rossini Overture.

ONLY the overture of Rossini's "Semiramide" now survives. It is interesting, however, to recall that the opera itself made something of a success at the King's Theatre, London, in 1824, after being a somewhat discouraging failure on its original production at Venice the year before. The overture begins with a vigorous measure where brass and woodwind combine over a continual roll of the drums to build up a thrilling climax. Then comes a more slowly moving passage, based on the duet sung in the opera by Semiramis, Empress of Nineveh, and Arsaces, the leader of her armies, and though she does not know it, her son. This slower section is followed by another Allegro, which brings the work to an end with all Rossini's usual brilliance and energy. The programme at 4YA on Monday, August 26, will open with this overture.

A Queen's Favourite Violinist.

THE composer of "Zigeunerweisen" for violin and orchestra, "Jota Aragonesa," four books of highly popular Spanish dances, and many romances and fantasies for violin, Sarasate, was during his lifetime regarded as one of the greatest violinists. He was a prize pupil of the Paris Conservatory, where he studied until he began his concert tours to all parts of the world, at the age of twenty-six. In boyhood he was presented with a fine Stradivarius by Queen Isabella of Spain, and he was always a special favourite with his countrymen, an annual fete being held at Pampeluna, in his honour. Lalo's first concerto, Bruch's second concerto and "Scottish Fantasia," and Mackenzie's "Pibroch Suite" were all specially composed for this artist. He was born at Pampeluna in 1844, and died at Biarritz in 1908. The 2YA Orchestra will play Sarasate's "Romanza Andaluza" on Tuesday, August 27.

Palmgren's "May Night."

IN the days of the older composers, Bach, Weber and Beethoven, musical works were known by such designations as "Sonata," "Rondo," "Scherzo" and other similar titles, which merely gave a clue to the general nature of the piece, but were entirely non-descriptive. Composers of today seek to impart in tones a definite musical picture. Debussy chooses such titles as "Reflection in the Water," "Moonlight," "Minstrels," etc. Grieg almost invariably gives a picturesque or dramatic suggestion in the names of his pieces and so do nearly all modern composers. The title "May Night," which Palmgren chose for one of his best known compositions, is rich in poetic suggestion. The warm air, the scent of lilacs, the fresh green of the new verdure, all made more beautiful

by the light of the May moon. All these are found in this exquisite work which employs the progressions and harmonies and exotic tints, which impart, to all works of this kind, a beauty peculiarly appealing, once it is seen and understood. Mrs. Ernest Drake will play Palmgren's "May Night," at 4YA on Monday, August 26.

Early French Music.

THE long line of Couperins was prominent in the history of French music from the middle of the seventeenth century down to the nineteenth. The most famous member of the clan was Francois, who was born in Paris in 1668, and who died there in 1733. The "Pavan" is a stately dance in 4-4 time, usually in three parts, each of which is repeated. Owing to its rather pompous nature it is usually used in compositions of a funereal character. The name was once thought to have been derived from "pavo," peacock, but is now conceded to have been derived from Padua, where it originated. Miss Molly Wright will play Couperin's "Chanson Louis XIII et Pavane" at 1YA on Tuesday, August 27.

A Sailor Turned Musician.

LIKE more than one of his gifted compatriots, Rimsky-Korsakov began his career as a musician from the amateur's point of view. Born in that class of Russian society whose sons have to choose between two careers, he was a sailor until his thirtieth year. He commemorated a visit to Spain by writing his impressions in musical form, and the result was the "Capriccio Espagnole," which embodies many scenes he found during his travels. Most of the movements are in Spanish dance rhythms, with characteristic names. The contrasting sections depict the scenes very faithfully, and the suite consists of five parts, Alborada, Variations, Alborada (repeated), Scene and Gipsy Song, Fandango. The "Capriccio Espagnole" will be played at 2YA on Monday, August 26.

Of All the Most Beautiful.

WHEN Chopin was nearly thirty he published a book of twenty-four preludes, one in each key, major and minor. They were written while he was staying with George Sand at Valdemosa in Majorca, "in a great abandoned Carthusian monastery, in one of the cells with doors bigger than the gates of Paris," as he wrote to a friend. "The cell is in the shape of a coffin, high and full of dust on the vault. Before the window orange, palm and cypress trees. . . Quietness. . . One may shout, and nobody will hear." The Prelude No. 15 is considered by many to be the most beautiful of them all. In it Chopin has elaborated the idea of the constant falling of raindrops which appears in the Sixth Prelude. The middle section is a choral-like melody, which George Sand described as in-

voking a vision of a procession of monks, carrying, in the dark hours of the night, their departed brother to his last resting-place.

Chopin's Preludes 14 and 15 will be played on a record by Robert Lortat, at 1YA on Sunday, September 1.

Suitable for Waitomo.

THE hitting cadences of the popular "Glow Worm," written in the gavotte tempo, have endeared it to lovers of popular light classics the world over. The piece is idyllic in character, and a charming story informs us, "When the night falls silently in the dreamy forests, lovers wander forth to gaze upon the stars. Lest they lose their way, the glow-worm lights their path with its tiny lantern." A pleasing legend relates that it is kindled from the glow of the hearts of the lovers themselves. The Melodie Four will sing an arrangement of Lincke's "Glow Worm" at 2YA on Saturday, August 31.

An Orchestral Pioneer.

ONE of the pioneers of modern orchestral composition, Berlioz is still regarded as holding a foremost place among the great masters of the orchestra. He had a white-hot imagination always ready to pour our brilliant ideas in the most grandiloquent way. Add to that the fact that he had at his finger-tips the knowledge of orchestration, and one may well expect that in his picture of "A Roman Carnival" in the sixteenth century he will make you see the scene as vividly as he himself did when he wrote the overture.

He actually wrote two overtures to "Benvenuto Cellini," what we know as the "Roman Carnival" being the second of these, and specially composed for the London production of the work. It was then played before the second act, and was well, although not boisterously received.

A record of the "Roman Carnival," played by the Berlin Philharmonic Orchestra, will be used at 2YA on Monday, August 26.

"Four Plain Bluejackets."

"A PRINCESS OF KENSINGTON," with a libretto by Basil Hood, followed "Merrie England," in which he had also collaborated with German, in 1903. It is a charming fantasy in which a whimsical humour like Gilbert's is blended with something like the fancy of Sir James Barrie, and romance is woven into the fabric of modern London life with subtle and delicate charm. German's music fits the story in the same happy way that Sullivan's music seems inseparable from Gilbert's inimitable nonsense, and the opera promised at first to carry on the long series of Savoy successes, with the brightest of hopes for a still further series. And yet, although it was warmly welcomed later on, when the d'Oyly Carte people took it on tour it was not contrived to hold the stage, and except for selections and one or two numbers, is almost never heard. Mr. Duncan Black will sing "Four Jolly Sailors" from the opera at 1YA on Tuesday, August 27.

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Next Week's Features

1YA Features

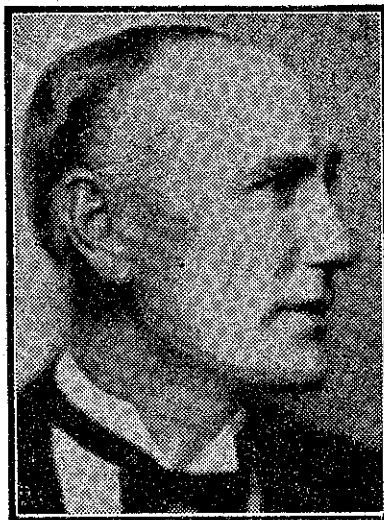
THE Sunday evening church service will be relayed from the Auckland Town Hall, where the anniversary service in connection with the Baptist Tabernacle Sunday School is to be celebrated. The preacher will be the Rev. Joseph Kemp, the organist and choir-master Mr. Arthur E. Wilson. The ensuing programme from the studio will be given by the Minster Quartet in quartets and solos, interspersed by specially-selected gramophone records.

AT 7.40 p.m. on Tuesday evening, continuing the W.E.A. series of talks, the Rev. W. G. Monckton, M.A., will speak on "New Zealand and the League of Nations."

The main performers in the concert-session will be the New Zealand Four in quartettes, duets, and solos, including "Down South," "Four Jolly Sailormen," "The Little Green Balcony," "There's a Brand New Hero," and "It Was a Dream." Contralto solos will be performed by Miss Phyllis Gribbin, who is making a welcome re-appearance at 1YA after a long absence from Auckland. Her items will include "Amour viens aider" (Saint-Saens) and "My Dearest Heart" (Sullivan). The Studio Trio include, among other numbers, selections from the musical comedy "Maytime" (Romberg), while Miss Mollie Wright will play a cello solo, "Chanson Louis XIII et Pavane."

An outstanding item on Tuesday's programme will be the initial appearance of a new combination of dramatic players in the persons of Mrs. Betty Bell, Miss Laurier McGregor, and Mr. Zante Wood. Their first radio presentation will be J. M. Barrie's one-act play "The Twelve Pound Look." Another item of interest will be the presentation of the first instalment of Verdi's great opera, "La Traviata," by Mr. R. W. Strong, secretary of the Auckland Choral Society.

A SPECIAL "Nigger Minstrel" programme has been arranged for Thursday evening, and will be presented by the "Coon-Cans from Alabama." This will be produced replete with interlocutor and endmen and the usual bones, tamborines, cross-talk, and choruses. A feature will be the singing of the old plantation songs and spirituals by the Alabama Coon Quartet.



Mr. Allan McSkimming, dramatic elocutionist of 1YA.
—Photo., Andrew.

ONE of the main items on Friday evening's programme will be the lecture-recital by Mrs. Daisy Basham on "Great Composers," her subject being "Mendelssohn." Mrs. Basham will have the able assistance of Mr. H. Barry Coney for this recital, and his rendering of "I Am a Roamer" will be awaited with interest.

A NEW performer from 1YA, in the person of Miss C. Mulqueen, will

make her bow to listeners on Friday evening, her items including "A Barcarolle at Dawn" and "A Virginian Love Song" (Harry). The gifted monologist, Miss Nina Scott, will make a welcome reappearance, and will include among her numbers a dramatic recital, "The Gift of Tritemeous" and "I Want to go to Daddy." The Studio Trio will contribute selections, while



Miss Sylvia Kindberg, a very promising young Auckland pianist.
—Photo., Andrew.

Miss Ina Bosworth (violiniste) will play "Sonata in A Major" (Handel).

SATURDAY evening's programme will include items by Miss Gwenyth Evans, mezzo, and Mr. Fred Baker, baritone. Miss Evans' items include "I Live for You" (Thompson) and "In My Garden" (Liddle), and Mr. Baker's "Pagan" (Loehr) and "A Dinder Courtship" (Coates). An original novelty sketch will be presented by the Four Originals, this being the sequel to "Oh! Mille!" which was performed some weeks ago. Orchestral selections will be played by the Studio Orchestra, while a number of selected gramophone items will be introduced.

lar songs), Mr. Ken Aitken (elocutionist), and Miss Marjorie Buckeridge (soubrette). The orchestral items will include the overture "Beautiful Galatea" (by Suppe), "Pas des Echarpes and Variations" (by Chaminade), "Four Dances" from the "Rebel Maid," and Herbert's "Serenade." The repeat item on this occasion will be Sarasate's "Romanza Andalusia."

Mr. Ken Aitken is an entertainer well known in Wellington concert circles, but this will be his first appearance before the microphone. His items will be "My Wife's Husband" and "The Green Tie on the Little Yellow Dog." Another new artist is Mr. Spencer Furrell, who was at one time a member of Pat Hanna's Diggers Company, having toured with this combination throughout Australia and New Zealand.

Miss Marjorie Buckeridge is a soubrette well known to Wellington audiences. Her items, "Little Miss Wooden Shoes" from "Miss Hook of Holland," and "O, Listen to the Band" from "The Runaway Girl," are sure to find favour with listeners.

A new quartet of singers will be heard on Monday evening. They will be known as the Harmonious Four, and their radio performances are sure to please.

THE Wellington Municipal Tramways Band, assisted by the Lyric Quartet, Mr. J. R. McKenzie (novelty pianist) and Miss Thelma Aitken (elocutioniste), will provide the programme on Thursday evening. The band items will include "The Bohemian Girl Overture," the intermezzo "In a Persian Market," a selection from "Rose Marie," a patrol "Jungle Drums," and several marches and waltzes.

Mrs. Norman Izett, a mezzo-soprano with a pleasing voice and a nice sense of interpretation, will be heard in "Sincerity" and "Amarella." Miss Thelma Aitken (elocutioniste) will provide the lighter side of the programme, her items being two humorous recitations, "At the Seaside" and "Foolish Questions."

THE Ariel Singers on Friday evening will present a programme of vocal gems from grand and comic operas. Their items will comprise a mezzo-contralto solo, "Farewell to My

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2YA Notes

THE evening service of St. Thomas's Anglican Church will be relayed on Sunday evening, and at the conclusion of the service the recital of the Wellington Municipal Tramways Band will be broadcast.

ON Monday evening at 7.40 Mr. H. C. South will give his fortnightly talk on "Books—Grave and Gay."

TUESDAY evening's programme will be of a light "popular" nature, the supporting artists being Mr. Claude O'Hagan (baritone), Mr. Spencer Furrell (who will sing popu-

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Home," from "La Wally." The madrigal from "The Mikado," "Brightly Dawns Our Wedding Day," a bass solo, "When a Maiden Takes Your Fancy," from "Il Seraglio," the well-known soprano solo from "Pirates of Penzance," "Poor Wandering One," and a duet from "La Vestale." The soloists will be Miss Ngaire Coster (mezzo-contralto), Mr. J. M. Caldwell (bass), and Miss Jeanette Briggs (soprano).

The orchestra will play items in keeping with the programme, their numbers comprising the overture to "Martha," a selection from "Carmen," the "Faust Ballet Music," the "Prince Igor Dances," and a selection from Benedict's "The Lily of Killarney." The humour of Friday evening will be contributed by Madame Eugenie Dennis and her partner, who will be heard in two sketches, "Two in a Punt" (by Esmond), and "Foiled Fiend" (by Coke).

ON Saturday evening the Melodie Four, Berthold and Bent (steel guitar duo), and Mr. Jack Roworth will, with the assistance of the studio orchestra, provide an entertaining vaudeville programme.

The concerted items will be "The Glow Worm," "The Goblins 'I Get You," and "The Owl and the Pussy Cat." Mr. R. S. Allwright (baritone) will sing "The Muleteer of Malaga," and Mr. Frank Bryant the tenor solo, "Fat Lil' Feller with his Mammy's Eyes." Cadman's "I Hear a Thrush at Eve" will be Mr. S. Duncan's solo, and Mr. W. W. Marshall has chosen for his item "Down in the Deep Let Me Sleep when I Die," a bass solo, which should prove eminently suitable to this singer's voice. Berthold and Bent will be heard in several Hawaiian and popular song numbers, and Mr. Jack Roworth will entertain with comic songs and patter. The orchestral overture will be Eger's "Snacks in Bars," and further novelties by the orchestra will include Bidgood's "A Motor Ride," a trombone polka, Locker's "Ragtime Bass Player," and a selection, "Poppy" (by Samuels). The usual dance programme of selected gramophone records will be presented at 10 o'clock, and at 10.45 a summary of the day's sporting results will be given.

THE preacher for the broadcast service on Sunday evening will be the Rev. T. W. Vealie, of the Trinity Methodist Church, Newtown, the organist being Miss Lillian Thowley, and the choirmaster Mr. W. McClellan. The recital by the Port Nicholson Silver Band will be relayed from the Grand Opera House at the conclusion of the evening service.

3YA Items

THE religious service to be broadcast on Sunday evening will be that conducted in St. Paul's Presbyterian Church. The Rev. W. Bower Black will be the preacher. A brief studio concert will follow, preceding the re-broadcast of the concert to be given by the Wellington Municipal Tramways Band in His Majesty's Theatre, Wellington. The artists to contribute from 3YA studio will be Mrs. Sen Jowett and Mr. J. Francis Jones.

ON Monday evening Mr. Charles Bucket will speak on "Experiences Among the Gymnasium Kiddies."

A new quartet of singers will be heard on Monday evening. They will be known as the Harmonious Four, and their radio performances are sure to please.

Concerted numbers will be such favourites as "Old Man Sunshine," "Just Cause," "I Got a Robe," "Querida," "Down in the Cane Brake," and another plantation melody, "Uncle Ned." Solos will be sung by Miss Winifred Walton and Miss Maud Stringer. There will be elocutionary items by Mr. R. R. Willis, two dramatic numbers, "Lasca" and "The Law of the Yukon."

The instrumental portion of Monday evening's programme will be provided by the Studio Trio and by the Christchurch Municipal Band under Mr. J. Noble. The band will present a well diversified programme, including Ord Hume's, march "Grove House," "My Syrian Maid" (an idyll by Rimmer), "In a Monastery Garden," "The Heavens Resound" (anthem), a selection from "Lohengrin," "The Merry Monarch" (march), and a euphonium and trombone duet, with band accompaniment.

THE vocalists engaged for Wednesday evening are Miss Myra Edmonds (mezzo-soprano), Miss Vera Martin (contralto), Mr. Theo Turner (baritone), and Mr. W. H. Inkster (bass). They will present an excellent miscellaneous programme. Recitations to be given by Miss Dorothy Jenkin will be "The House by the Side of the Road" and "Yes, Papa." There will be instrumental numbers by Miss Lucy Fullwood (pianiste) and the Studio Orchestra under Mr. Harold Beck.

The charming song cycle by Lane Wilson, "Dorothy's Wedding Day," will be presented on Thursday evening by the Melodious Four. This will be supported by a miscellaneous programme contributed by the same artists with the addition of the Studio Trio and Mrs. Margaret Williams, elocutioniste. Mrs. Williams's items will be "The Thousandth Man," "Specially Jim," and "The Carver and the Caliph."

PROMINENT on Friday evening's programme will be two sketches, "Old Cronies" and "Fishing," to be presented by Messrs. Cecil Collick and Alan Browne. With two such fine entertainers the sketches should be very interesting. On the musical side of the programme will be the Melody Maids, a duo who will sing popular songs at the piano, with ukulele obbligato. Other vocalists will be Mrs. Maud Wood (mezzo-soprano) and Mr. Sydney Armstrong (baritone). Selections will be played by the Studio Trio

and a session of dance music will conclude the evening's programme.

SATURDAY evening's programme will be mainly a boxing relay from Greymouth, where the New Zealand Amateur Championships are to be held.

Features from 4YA

THE service conducted in Trinity Methodist Church on Sunday evening will be broadcast. The Rev. H. E. Bellhouse will be the preacher. Following the church service the concert to be given by the Kaitorai Band under Mr. T. J. Kirk-Burnand will be relayed from His Majesty's Theatre.

"RUPERT BROOKE" has been chosen for the next of the series "With the Poets," to be given by Mr. Angus Gorrie on Monday evening. This will be the third of such recitals in which great interest is taken. Mr. Gorrie makes his lectures very informative and interesting.

The concert programme for Monday evening will be given by Miss Muriel Payer (soprano), Miss Gwenda Burt (contralto), Mr. George Crawford (tenor), Mr. Arthur Alloo (baritone), and the Studio Trio (in concerted and solo numbers), while there will be a number of specially selected gramophone records.

"THE MACHINE AGE" will be the second of a series of W.E.A. talks under that title, to be given by Mr. Lloyd Ross, M.A., LL.B., on Tuesday evening at 7.30.

Tuesday evening's concert will be provided in the main by St. Kilda Band under Mr. James Dixon. The assisting vocal artists will be Miss Doris Davies (mezzo-soprano), Miss Irene Hornblow (contralto), while elocutionary numbers will be given by Miss Tui Northey. The band items will be: two marches, "The Voice of the Guns" and "The Pirate King," a waltz "Golden Dreamland," a selection "Lasses and Lads," the intermezzo, "Minola," a descriptive piece, "From a Russian Village" and a cornet solo, "I Passed By Your Window."

LIGHT variety will mark Wednesday evening's programme. It will open with a relay from the Empire Theatre, where Mr. Leslie Harvey will be playing on the Christie organ. Studio items will be contributed by Mr. Norman Scurr (light vocal), Mr. W. Ruffell (baritone, singing "Captain Mac," "Mandalay" and "The Muleteer of Malagar"), Mr. Buster Brown (Scottish songs), Mr. Lester Moller (humorous recitations), and the Studio Trio. Cello solos to be played by Mr. P. J. Palmer will be the popular "Song of India" and "The Swan." The latter portion of the programme will consist of a dance music session.

Friday evening's programme will be redolent of the sea. Messrs. O. Garden, R. B. McDonald, and E. G. Bond will sing sea chanties and such solos as "Rolling Down to Rio," "Song of the North Wind," "Back from Sea," and "Four Jolly Sailormen." The second half of the programme will be devoted entirely to the dramatic play, "Galapagos."

ON Saturday, 4YA will as usual relay from 3YA.

Mr. S. J. Hayden

Returns to Christchurch

MR. S. J. HAYDEN, who for the last few months has been in charge at 4YA while building operations in connection with the new station have been in progress, has now returned to Christchurch. Mr. J. Mackenzie has taken his place as station manager at 4YA.

Mr. Mackenzie claims Dunedin as his birthplace, but he has travelled far since then. After a commercial training he took up Y.M.C.A. work and has been long associated with the movement in New Zealand and in America. He was with the Y.M.C.A. in France and England during the war. He will bring wide experience and ability as an organiser to bear on his office as station manager at 4YA.

Splendid progress has been made with the fitting up of the new studios and with the installation of the new plant, but the work of furnishing cannot be completed until the arrival of special drapings and curtains, which have had to be imported and which are on board the Port Melbourne.

The new station will be up-to-date in every respect, with the most modern transmitting plant procurable, and with the studios equipped with the latest electrical devices to facilitate the efficient staging and presenting of programmes.

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See page 32 for column of casual advertisements.



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Full Programmes for Next

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Sunday, August 25

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, AUGUST 25.

- 3.0 : Afternoon session—Selected studio items.
- 4.0 : Literary selection by the Announcer.
- 4.8 : Studio items.
- 4.30 : Close down.
- 6.0 : Children's session conducted by Uncle Leo.
- 6.55 : Relay from the Auckland Town Hall of Baptist Tabernacle Sunday School Anniversary Service. Preacher: Rev. Joseph Kemp. Organist and choir-master: Mr. Arthur E. Wilson.
- 8.30 : (approx.) Studio Concert.
- Vocal quartet—Minster Quartet, "Turn Ye to Me" (Collinson).
- 8.34 : Baritone solos—Mr. Roy Stephenson, (a) "You Along o' Me" (Sanderson), (b) "Beating Up the Channel" (Sanderson).
- 8.41 : Orchestral—Columbia Symphony Orchestra, "Faust" Selection (Gounod) (Columbia Record 02708).
- 8.45 : Contralto solos—Miss Maida Davidson, (a) "Whatever Is, Is Best" (Lohr); (b) "One Fleeting Hour" (Lee).
- 8.52 : Tenor solos—Mr. A. L. MacPherson, (a) "Shine Out, O Stars" (Day), (b) "Remember Thy Creator" (Topliss).
- 9.0 : Cello solo—W. H. Squire, "Album Leaf" (Glunie) (Columbia Record D4214).
- 9.4 : Vocal duet—Miss G. Hosking and Mr. MacPherson, "Love Divine" (Stainer).
- 9.8 : Band—Garde Republicaine de France, "Carmen—Entr'acte" (Bizet) (Columbia Record 02747).
- 9.16 : Soprano solo—Miss G. Hosking, "Sometimes in Summer" (Bennett).
- 9.20 : Vocal quartet—Minster Quartet, "On the Banks of Allan Water" (Newton).
- 9.24 : Band—Royal Air Force Band, (a) "Our Director" March (Bigelow), (b) "Repaz Band March" (Sweeley) (Columbia Record 01354).
- 9.31 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, AUGUST 25.

- 3.0 : Afternoon session—Selected studio items.
- 4.30 : Close down.
- 6.0 : Children's song service conducted by Uncle George.
- 7.0 : Relay of service from St. Thomas's Anglican Church (Preacher, Rev. C. V. Rooke; Organist and Choir-master, Mr. W. A. Gatheridge).
- 8.15 : (approx.) Relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band under the conductorship of Mr. E. Franklin.
- Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, AUGUST 25.

- 3.0 : Afternoon session—Selected studio items.
- 4.30 : Close down.
- 5.30 : Children's song service conducted by Rev. L. McMaster.
- 6.15 : Hymn chimes from studio.
- 6.30 : Relay of service from St. Paul's Presbyterian Church (Preacher, Rev. W. Bower Black; Musical Director, Mr. H. Blakeley; Organist, Mr. Norman Williams.)
- 7.45 : (approx.) Studio Programme:
- Instrumental—J. H. Squire Celeste Octet, "Serenade" (Titl) (Columbia Record 9116).
- Mezzo-soprano solo—Mrs. Sen Jowett, "Where the Bee Sucks" (Arne).
- Baritone solo—Mr. J. Francis Jones, "Galilee" (Adams).
- Violin solo—Fritz Kreisler, "Liebeslied" (Kreisler) (H.M.V. Record B985).
- Mezzo-soprano solos—Mrs. Sen Jowett, (a) "When Daisies Pied" (Arne), (b) "Birds in the Night" (Sullivan).
- Baritone solo—Mr. J. Francis Jones, "Thou'rt Passing Hence, My Brother" (Sullivan).
- Violin solo—Fritz Kreisler, "Liebesfreud" (Kreisler) (H.M.V. Record B985).
- 8.15 : (approx.) Rebroadcast of 2YA, Wellington (relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band).
- Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, AUGUST 25.

- 3.0 : Town Hall chimes.
- 3.1 : Selected gramophone items.
- 4.30 : Close down.
- 5.30 : Children's song service, conducted by Big Brother Bill.

6.30 : Relay of service from Trinity Methodist Church:

Preacher: Rev. H. E. Bellhouse.

8.5 : Relay from His Majesty's Theatre of concert by the Kaikorai Band under the conductorship of Mr. T. J. Kirk-Burnand.

9.15 : Close down.

Monday, August 26

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, AUGUST 26.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, AUGUST 26.

- 3.0 : Chimes of the G.P.O. clock.
- 3.1 : Selected studio items.
- 3.40 : Relay from Messrs. Kirkcaldie and Stains' Tearooms of music by the Trio.
- 4.30 and 4.55 : Sports results to hand.
- 4.55 : Close down.
- 5.0 : Children's session, conducted by Uncle Jeff.
- 6.0 : Dinner session:
- Orchestral—Berlin Philharmonic Orchestra, "Carnival Romain" (Berloiz) (H.M.V. Record D1365).
- Violin solo—Renee Chemet, "Album Leaf" (Chabrier) (H.M.V. Record DA812).
- 6.12 : Tacet.
- 6.15 : Orchestral—New Queen's Hall Light Orchestra, "Peer Gynt Suite" (Grieg), (1) Return of Peer Gynt; (2) Solveig's Song (Columbia Record 02632).
- Pianoforte solo—Mark Hambourg, "On Wings of Song" (Mendelssohn) (H.M.V. Record C1439).
- 6.27 : Tacet.
- 6.30 : String quartet—Budapest String Quartet, "Quartet in B Major—First Movement—Allegro Vivace Assai" (Mozart) (H.M.V. Record D1387).
- Tenor solo—Hubert Eisdel, "Wait" (D'Hardelot) (Columbia Record 02598).
- 6.42 : Tacet.
- 6.45 : Violin solo—Renee Chemet, "Berceuse" (Groozlez) (H.M.V. Record DA812).
- Ballet music—Halle Orchestra, "Rosamunde Ballet" (Schubert); (1) Andantino; (2) Allegro Moderato; (3) Andante un poco Assai (Columbia Record 04200).
- 6.56 : Tacet.
- 7.0 : News session—Market reports and sports results.
- 7.40 : Lecture—Mr. H. C. South, "Books—Grave and Gay."
- 8.0 : Chimes of the G.P.O. clock.
- 8.1 : Studio presentation of the concert version of Offenbach's "Tales of Hoffman" by the Wellington Orpheus Society, under the conductorship of Mr. Harison Cook. (The society will be accompanied on two pianos played by Miss Hazel Rowe, L.T.C.L., and Mr. H. E. Brusey.)

The Story.

Prologue: Students are gathered in Luther's cellar in Nuremberg. Hoffman enters and sings at their request "The Ballad of Kleinzack." After this he relates the story of his three loves.

Act 1.—The First Tale: Spalanzani, a maker of automatic dolls, has made one he calls Olympia, and passes her off as his daughter. Hoffman, through the agency of magic glasses, sold to him by the rascally Coppelius, falls in love with her and her doll song, only to be disillusioned when she falls to pieces.

Act 2.—Second Tale: Hoffman falls in love with Guilletta in Venice. With the assistance of the cynical Diapertutto, he kills his rival, Schlemil, and returns only to find that Guilletta has gone away with yet another lover.

Act 3.—Third Tale: Hoffman falls in love once more, this time with a charming girl in Munich, who has a beautiful voice which she has inherited from her mother, but, alas, she is also compulsive and forbidden to sing. The malicious Dr. Miracle forces her to sing by conjuring the vision of her mother, and she dies in Hoffman's arms.

Epilogue: The opera ends as it began—in Luther's cellar—where Hoffman has just finished his tales.

Cast.

Throughout the Opera.

Hoffman	Mr. Charles Edwards
Nicklaus	Miss Helen Higgins

Week-all Stations-to Sep. 1

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

In the Prologue:

Hermann Mr. John B. Pearson
Nathaniel Mr. Claude Batten

First Tale:

Olympia Miss Jeanette Briggs
Coppelius Mr. Ray Kemp

Second Tale:

Giulietta Mrs. Amy Woodward
Dapertutto Mr. Dan Foley
Pitichinaccio Mr. Claude Batten
Schlemil Mr. H. B. Robb

Third Tale:

Antonia Miss Greffa Stark
The Mother's Voice Mrs. Amy Woodward
Dr. Miracle Mr. Ray Kemp

Prologue.

Overture—Studio Orchestra, "Tales of Hoffman," Part 1 (Offenbach).
Chorus—Chorus with Nathaniel and Hoffman, "Drig! Drig! Drig!"
Song—Hoffman and chorus, "The Legend of Kleinzack."
Finale—Hoffman, Nicklaus and chorus, "Come, Let's have Some Punch."

Act 1.

Chorus—"No Equal Ever Can Be."
Recitative—Scena—Hoffman, Coppelius and chorus, "This I, Coppelius."
Song—Olympia, "The Doll's Song."
Chorus—"Let Us Go."
Romance and scena—Olympia, Hoffman and Coppelius, "Olympia, Dearest Child."
Finale—Olympia, Hoffman, Coppelius and chorus, "Gently Swaying."
Selection—Studio Orchestra, "Tales of Hoffman," Part 2 (Offenbach).

Act 2.

Entr'acte and barcarolle—Giulietta, Nicklaus and chorus, "Barcarolle."
Recitative and drinking song—Hoffman and chorus, "When Love is but Tender and Sweet."
Aria—Dapertutto, "As Jewels Divine."
Recitative—Scena—Giulietta, Hoffman and Dapertutto, "Enchantress."
Duet—Giulietta and Hoffman, "Foolish Boy."
Septett—Giulietta, Nicklaus, Hoffman, Pitichinaccio, Schlemil, Dapertutto and chorus, "With Love, alas, My Heart is Beating."
Finale—Giulietta and chorus, "Listen All to Me."
Selection—Studio Orchestra, "Orpheus in the Underworld." (Offenbach).

Act 3.

Entr'acte.
Romance—Antonia, "Thou art Flown."
Recitative—Scena—Antonia and Hoffman, "To Sing no More."
Finale—Antonia, Miracle and chorus, "You've Pledged Your Word."

Epilogue.

Recitative—Hoffman, "The Story of My Adventures now is Done."
Chorus—"And now for the Punch."
Selection—Studio Orchestra, "Offenbach" Selection (arrgd. Ansell).
Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, AUGUST 26.

2.0 : Afternoon session—Selected studio items.
4.25 : Sports results to hand.
4.30 : Close down.
5.0 : Children's session, conducted by "Scatterjoy."
6.0 : Dinner music. (For programme, see page 9.)

7.0 : News session.

7.20 : Farm chat arranged by 3YA Primary Productions Committee—"Pasture Management," an agricultural bulletin issued by the Canterbury Chamber of Commerce.

7.30 : Talk—Mr. Chas. Buckett, "Experiences Amongst the Gymnasium Kiddies."

8.0 : Chimes.

8.1 : Studio programme by the Christchurch Municipal Band, under the conductorship of Mr. J. Noble, and assisting artists:

March—Band, "Grove House" (Ord Hume).

Odyl—Band, "My Syrian Maid" (Rimmer).

8.11 : Vocal quartets, followed by waltz song—Harmonius Four and Miss Winifred Walton, (a) "Old Man Sunshine" (Warren); (b) "Just Cause" (Vandersloot); (c) "Waltz Song—Tom Jones" (German).

8.22 : Xylophone solo—Sam Herman, "Al Fresco" (Herman) (Zonophone Record EE53).

8.25 : Instrumental—Studio Trio, "Andante and Scherzo" (Reissiger).

8.38 : Recital—Mr. Richard R. Wills, "Lasca" (Desprez).

8.43 : Intermezzo—Band, "In a Monastery Garden" (Ketelby).

8.49 : Vocal duet, followed by vocal quartet—Harmonius Duo and Harmonius Four, (a) "Sing Me to Sleep" (Greene); (b) "I Got a Robe" (Negro Spiritual) (arrgd. Edna Thomas).

8.56 : Anthem—Band, "The Heavens Resound" (Beethoven).

9.1 : Weather report.

9.3 : Selection—Savoy Orpheans, "Lido Lady" (Rodgers) (H.M.V. Record C1310).

9.11 : Vocal quartettes—Harmonius Four, (a) "Querida" (Simon); (b) "Down in the Cane Brake" (Friend).

9.18 : Saxophone solo—Rudy Wiedoeft, "Valse Mazanetta" (Wiedoeft) (Columbia Record 01176).

9.21 : Three light instrumental numbers—Studio Trio, (a) "Valse" (Hellmesberger); (b) "Serenade" (Drigo); (c) "Syncopation" (Kreisler).

9.30 : Mezzo-contralto solo—Miss Maud Stringer, "Poon Man's Garden" (Russell).

9.34 : Selection—Band, "Lohengrin" (Wagner).

9.46 : Vocal quartet—Harmonius Four, "Uncle Ned" (Plantation Melody) (Foster).

9.50 : Recital—Mr. Richard R. Wills, "The Law of the Yukon" (Servill).

9.57 : Euphonium and trombone duet—Bandsmen McGrath and Frew, with band accompaniment, "Watchman! What of the Night?" (Sargeant).

March—Band, "The Merry Monarch" (Start).

10.6 : Close down.

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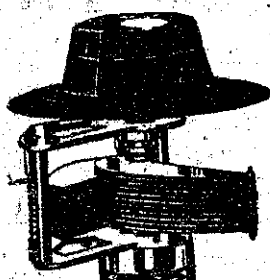
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4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, AUGUST 26.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 6.0 : Town Hall chimes.
 6.1 : Children's session, conducted by Uncle Allan.
 7.0 : News session.
 8.0 : Town Hall chimes.
 8.1 : Overture—Milan Symphony Orchestra, "Semiramide" (Rossini) (Columbia Records 02840/1).
 8.13 : Soprano solos—Miss Muriel Eager, (a) "Scenes That Are Brightest" ("Maritana") (Wallace); (b) "Si-te-sigmer" (Meyerbeer).
 8.20 : Instrumental—4YA Broadcasting Trio, "Bohemian Girl" (Balfe).
 8.25 : Baritone solos—Mr. Arthur W. Alloo, (a) "Star of Eve" (Wagner); (b) "Thou'rt Passing Hence" (Sullivan).
 8.32 : Pianoforte solos—Mrs. Ernest Drake, (a) "A Night in May" (Palmgren); (b) "Minuet" (Ravel).
 8.37 : Male chorus—Salisbury Singers, "Border Ballad" (Mauder) (Regal Record G20429).
 8.41 : Tenor solos—Mr. Geo. Crawford, (a) "Ah, Moon of My Delight" (Lehmann); (b) "If With All Your Heart" (Mendelssohn).
 8.48 : Violin solo—Mr. Frank Parsons, "La Cygne" (Saint-Saens).
 8.53 : Contralto solos—Miss Gwenda Burt, (a) "Like to the Damask Rose" (Elgar); (b) "The Great Awakening" (Kramer).
 9.0 : Weather report.
 9.2 : Instrumental—4YA Broadcasting Trio, "Faust" Selection (Gounod).
 9.8 : Chorus—Light Opera Company, Gems from "Pagliacci" (Leoncavallo) (H.M.V. Record BB27).
 9.12 : Soprano solo—Miss Muriel Eager, "My Mother Bids Me Bind My Hair" (Haydn).
 9.16 : Recital—Mr. Angus Corrie—"With the Poets" Series: "Rupert Brooke."
 9.36 : Baritone solo—Mr. Arthur W. Alloo, "The Toreador's Song" ("Carmen") (Bizet).
 9.40 : Cello solos—Mr. P. J. Palmer, (a) "Iziz-izig" (Squire); (b) "Sonata" (Beccles).
 9.49 : Tenor solo—Mr. Geo. Crawford, "At the Mid Hour of Night" (Cowen).
 9.53 : Orchestral—Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of Bacchus" (Delibes) (H.M.V. Record C1413).
 10.1 : Contralto solo—Miss Gwenda Burt, "Danny Boy" (Weatherley).
 10.4 : Close down.

Tuesday, August 27

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, AUGUST 27.

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.25 : Sports results.
 4.30 : Close down.
 6.0 : Children's session, conducted by Uncle George.
 7.0 : Talk—Mr. Geo. Campbell, "Motoring."
 7.15 : News and market reports.
 7.40 : Talk—Rev. W. G. Monckton, M.A. (under the auspices of the W.E.A.): "New Zealand and the League of Nations."
 8.0 : Chimes.
 8.1 : Relay from the Majestic Theatre of overture by Orchestra under the direction of Mr. J. Whiteford-Waugh.
 8.6 : Vocal quartets—New Zealand Four, (a) "The Old Oaken Bucket" (Parks); (b) "Down South" (Parks).
 8.13 : Bass solo—Mr. Duncan Black, "Four Jolly Sailormen" ("Princess of Kensington") (German).
 8.17 : Instrumental—Studio Trio, "Iphigenia in Aulis" overture (Gluck).
 8.26 : Vocal duet—Messrs. Roy Dormer and Eric Mannell, "Rose of My Heart" (Sanderson).
 8.30 : Contralto solo—Miss Phyllis Gribben, "Amour Viens Aider" (Saint-Saens).
 8.34 : Cello solo—Miss Mollie Wright, "Chanson Louis XIII Et Pavane" (Couperin).
 8.38 : Tenor solo—Mr. R. Dormer, "The Little Green Balcony" (Coates).
 8.42 : One-act play—Mrs. Betty Bell, Miss L. McGregor and Mr. Zante Wood, "The Twelve Pound Look" (Barrie).
 9.0 : Weather report.
 9.2 : Orchestral—International Concert Orchestra, "Tesoro Mio" (Beucucci) (H.M.V. Record BF15).
 9.6 : Tenor solo—Mr. James Simpson, "There's a Brand New Hero" ("Going Up" (Hirsch).
 9.10 : Contralto solos—Miss P. Gribbin, (a) "Sombre Woods" (Lully); (b) "My Dearest Heart" (Sullivan).
 9.17 : Instrumental—Studio Trio, "May-Time" selections (Romberg).
 9.25 : Baritone solo—Mr. E. Mannell, "Nancy Waits for Jack" (Slater).
 9.29 : Vocal duet—Messrs. Black and Simpson, "Where My Caravan Has Rested" (Lohr).
 9.32 : Vocal quartet—New Zealand Four, "It was a Dream" (Parks).
 9.35 : Presentation of first instalment of the grand opera "La Traviata" (Verdi) (Columbia Records 9629-32).
 10.10 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, AUGUST 27.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected studio items.
 3.30 : Lecturette—Mr. Norman Isaac, "Art and the Home."
 3.45 : Selected studio items.
 4.30 and 4.55 : Sports results to hand.
 4.55 : Close down.
 5.0 : Children's session, conducted by Uncle Jim.
 6.0 : Dinner session:
 Orchestral—Jack Hylton's Orchestra, "The Selfish Giant" (Coates) (H.M.V. Record C1253).
 Baritone and male quartet—Jno. Goss and Cathedral Quartet: (a) "Walk Him Along Johnny"; (b) "Johnny Comes Down to Hilo" (Arrgd. Terry) (H.M.V. Record B2940).
 6.12 : Tacet.
 6.15 : Waltz—Edith Lorand Orchestra, "Myosotis" (Waldteufel) (Parlophone Record B10513).
 Pianoforte solo—Frank Banta, "The World is Waiting for the Sunrise" (Lockhart) (Zonophone Record BE153).
 6.27 : Tacet.
 6.30 : Orchestral—Dajos Bela Orchestra, "Ideale" (Tosti), (Parlophone Record A4015).
 Baritone and male quartet—Jno. Goss and Cathedral Quartet: (a) "O Shallow Brown"; (b) "Miss Lucy Long" (Arrgd. Terry) (H.M.V. Record B2940).
 Marimba Orchestra—Rio Marimba Orchestra, "My Isle of Golden Dreams" (Blaufuss) (Columbia Record 02685).
 6.42 : Tacet.
 6.45 : Orchestral—Dajos Bela Orchestra, "Serenade" (Moszkowski) (Parlophone Record A4015).
 Pianoforte solo—Frank Banta, "Dorothy" (McHugh) (Zonophone Record BE153).
 Waltz—Rio Marimba Orchestra, "Three O'clock in the Morning" (Robledo) (Columbia Record 02685).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—"For the Man on the Land," by a representative of the Agricultural Department.
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Beautiful Galatea" (Suppe).
 8.9 : Baritone solo—Mr. Claude O'Hagan, "Friend o' Mine" (Sanderson).
 8.13 : Wurlitzer organ solo—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey) (H.M.V. Record C1459).
 8.17 : Popular songs—Mr. Spencer Furrell, (a) "Old Fashioned Rose" (Prior); (b) "Ranger's Song" ("Rio Rita") (Tierney).
 8.24 : Instrumental—Orchestra, "Pas Des Echarpes" (with variations) (Chaminade).
 8.32 : Humour—Mr. Ken Aitken, "My Wife's Husband" (Anon).
 8.38 : Negro spirituals—Fiske University Jubilee Singers, (a) "Little David"; (b) "Ezekiel Saw the Wheel" (Regal Record G20421).
 8.44 : Soubrette—Miss Marjorie Buckeridge, (a) "Little Miss Wooden Shoes" ("Miss Hook of Holland") (Rubens); (b) "O Listen to the Band" ("The Runaway Girl") (Monckton).
 8.51 : Instrumental—Orchestra, "Four Dances from the Rebel Maid" (Phillips); 1. Jog; 2. Gavotte; 3. Graceful Dance; 4. Village Dance.
 8.59 : Weather report.
 9.1 : Baritone solo—Mr. Claude O'Hagan, "Young Tom o' Devon" (Russell).
 9.5 : Wurlitzer organ solo—Reginald Foort, "Sally of My Dreams" (Kernell) (H.M.V. Record B2690).
 9.8 : Popular song—Mr. Spencer Furrell, "Ten Little Miles from Town."
 9.12 : Instrumental—Orchestra, "Romanza Andalus" (Sarasate).
 9.17 : Humour—Mr. Ken Aitken, "The Green Tie on the Little Yellow Dog" (Bennett).
 9.23 : Soubrette—Miss Marjorie Buckeridge, "It's a Million to One You're in Love" (Ask).
 9.27 : Instrumental—Orchestra, "Serenade" (Herbert).
 9.32 : "His Master's Voice" Dance Programme:
 Foxtrot with vocal refrain—Aaronson's Commanders, "My Scandinavian Gal" (Tobias) (H.M.V. EA460).
 Foxtrot with vocal refrain—Shilkret's Orchestra, "My Tonia" (De Silva) (H.M.V. Record EA478).
 Foxtrot with vocal refrain—Hamps' Kentucky Serenaders, "What D'Ya Say?" (Brown) (H.M.V. Record EA460).
 9.40 : Tenor solo—Franklyn Baur, "Marie" (Berlin) (Zonophone Record BE135).
 Waltz with vocal refrain—The Troubadours, "Live and Love" (Klages) (H.M.V. Record EA478).
 Wurlitzer organ solo—Jesse Crawford, "Me and the Man in the Moon" (Leslie) (H.M.V. Record EA491).
 Foxtrot with vocal refrain—Shilkret's Orchestra, "I Still Keep Dreaming of You" (Davis) (H.M.V. Record EA461).
 9.53 : Bass solo with chorus—Paul Robson, "Plantation Songs" (H.M.V. Record C1585).
 Hawaiian—Kolomoku's Honoluluans, "Aloha-Oe" (Liliuokalani) (Zonophone Record BF23).
 Foxtrot with vocal refrain—Shilkret's Orchestra, "Cross Roads" (Klages) (H.M.V. Record EA461).
 Hawaiian—Kolomoku's Honoluluans, "Three O'clock in the Morning" (Robledo) (Zonophone Record BF23).
 10.6 : Tenor solo—Franklyn Baur, "Cross Roads" (Klages), (Zonophone Record BE135).

Orchestral—London Orchestra, "On With the Show" (Nicholls) (Zonophone Record 5187).

Wurlitzer organ solo—Reginald Foort, "Worryin'" (Fairman) (H.M.V. Record EA491).

10.19: Tenor solos—Walter Glynn, (a) "Jeunesse" (Barry); (b) "I Love the Moon" (Rubens) (H.M.V. Record B2761).

Foxtrot—Rhythm Band, "There Are Eyes" (Keys) (H.M.V. Record EA469).

Foxtrot with vocal refrain—Rhythmic Eight, "Saskatchewan" (Gilbert) (Zonophone Record EE126).

Foxtrot with vocal refrain—New Mayfair Orchestra, "Why is the Bacon So Tough?" (Prentice) (H.M.V. Record EA469).

10.35: Male quartet—Masters Lough and Mallett and Messrs. Dixon and Hastwell, "Drink to me Only" (Arrgd. Ball) (H.M.V. Record B2770).

Saxophone duet—Rudy Wiedoeft and Arnold Brilhart, "The Swallow" (Zonophone Record EE129).

Foxtrot with vocal refrain—Aaronson's Commanders, "I'll Get By as Long as I Have You" (Turk) (H.M.V. Record EA466).

Waltz with vocal refrain—The Troubadours, "Dolores" (Grossman) (H.M.V. Record EA477).

10.48: Accordion and banjo—P. Frosini, "Silver Moon" Waltz (Frosini), (Zonophone Record EE129).

Foxtrot with vocal refrain—McEnelly's Orchestra, "Sleep, Baby, Sleep" (Tucker) (H.M.V. Record EA466).

Waltz with vocal refrain—Troubadours, "Love Dreams" (Harris) (H.M.V. Record EA475).

Foxtrot with vocal refrain—Geo. Olsen's Music: "Sonny Boy" (H.M.V. Record EA441).

11.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, AUGUST 27. SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, AUGUST 27.

3.0 : Town Hall chimes.

3.1 : Selected gramophone items.

4.25: Sports results to hand.

4.30: Close down.

6.0 : Town Hall chimes.

6.1 : Children's session, conducted by Big Brother Bill.

7.0 : News session.

7.30: Lecturette—Mr. Lloyd Ross, M.A., LL.B., "The Machine Age—Education." (Under the auspices of the Workers' Educational Association.)

8.0 : Town Hall chimes—Concert by the St. Kilda Band, under the conductorship of Mr. James Dixon, and assisting artists:

8.1 : March—Band, "Voice of the Guns" (Alford).

8.7 : Mezzo-soprano solo, Miss Doris Davies, (a) "I Did Not Know" (Trottere); (b) "Tally-Ho" (Leoni).

8.14: Humour—Will Fyffe, "Sailing up the Clyde" (Fyffe) (Columbia Record 02726).

8.18: Waltz—Band, "Golden Dreamland" (Rimmer).

8.27: Contralto solos—Miss Irene Horniblow, (a) "The Restless Sea" (Hamblin); (b) "Fairy Tales."

8.34: Marimba orchestra—Rio Marimba Orchestra, "My Isle of Golden Dreams" (Blufuss) (Columbia Record 02685).

8.38: Recitals—Miss Tui Northey, (a) "The Little Quaker Sinner" (Anon); (b) "Not Understood" (Anon).

8.45: Selection—Band, "Lasses and Lads" (Truman).

8.53: Male quartet—National Cavaliers, "Beautiful" (Gillespie) (H.M.V. Record EA480).

8.56: Cornet solo—Band, "I Passed by Your Window" (Brahe).

9.3 : Weather report.

9.5 : Wurlitzer organ solo—Leslie James, "Just Imagine" (De Sylva) (H.M.V. Record B2902).

9.8 : Intermezzo—Band, "Minola" (Brown).

9.16: Mezzo-soprano solo, Miss Doris Davies, "Sir Roger" (Colman).

9.20: Humour—Will Fyffe, "Ye Can Come and See the Baby" (Fyffe) (Columbia Record 02726).

9.24: Descriptive selection—Band, "From a Russian Village" (Marsden).

9.34: Recital—Miss Tui Northey, "The Girl and the Gloves" (Pain).

9.41: Marimba orchestra—Rio Marimba Orchestra, "Three O'Clock in the Morning" (Robledo) (Columbia Record 02685).

9.45: Contralto solo—Miss Irene Horniblow, "Cowslip Time" (Stanford).

9.49: Chorus—Columbia Vocal Gem chorus—"No, No, Nanette" (Youmans) (Columbia Record 9072).

9.57: March—Band, "Pirate King" (Greenwood).

10.2 : Close down.

4.25: Sports results to hand.

4.30: Close down.

6.0 : Children's session, conducted by Uncle Tom.

7.0 : Book review.

7.15: News and market reports.

7.40: Talk—Mr. Norman Kerr, "Physical Culture."

8.0 : Chimes.

8.1 : Relay from St. Paul's Methodist Church, Hamilton, of the cantata, "The Holy City" (Gaul): Organist and chairmaster, Mr. T. S. Webster.

10.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, AUGUST 28.

2.30: Relay description of Canterbury versus Wairarapa Ranfurly Shield match, at Masterton.

Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, AUGUST 28.

2.30: Rebroadcast of 2YA, Wellington (relay description of Canterbury v. Wairarapa Ranfurly Shield match, at Masterton).

Close down.

5.0 : Children's session, conducted by Mother Hubbard and Uncle Frank.

6.0 : Dinner music. (For programme, see page 9.)

7.0 : News session.

7.30: Addington stock market reports.

8.0 : Chimes.

8.1 : Overture—Band of H.M. Coldstream Guards, Selections from "H.M.S. Pinafore" (Sullivan) (H.M.V. Record C1283).

8.9 : Mezzo-soprano solo—Miss Myra Edmonds, "The Laughing Song" ("Manon Lescaut") (Anber).

8.13: Pianoforte solo—Miss Lucy Fullwood, "Mazeppa" (Liszt).

8.21: Bass solos—Mr. W. H. Inkster, (a) "O, Promise Me" (De Koven); (b) "Until" (Sanderson).

8.27: Chorus—La Scala Chorus—"La Tempesta—Otello" (Verdi) (Columbia Record 02723).

8.31: Instrumental—Studio Orchestra, under the conductorship of Mr. Harold Beck, "Ruy Blas" (Mendelssohn).

8.39: Contralto solo—Miss Bera Martin, "Orpheus with his Lute" (Sullivan).

8.43: Mandolin band—Circolo Mandolinistrio, "Carmen—Intermezzo" (Bizet) (Columbia Record 0989).

8.47: Recital—Miss Dorothy Jenkin, "The House By the Side of the Road" (MS).

8.52: Baritone solos—Mr. Theo Turner, (a) "The Rebel" ("Freebooters' songs") (Wallace); (b) "Ma Little Banjo" (Dichmont).

8.57: Violin and organ—De Groot and Terence Casey, "Cavatina" (Raff) (H.M.V. Record B2920).

9.1 : Weather report.

9.3 : Instrumental—Studio Orchestra, (a) "Spanish Serenade" (Glazunoff); (b) "Gavotte" ("Mignon") (Thomas); (c) "Waita Poi" (Hill).

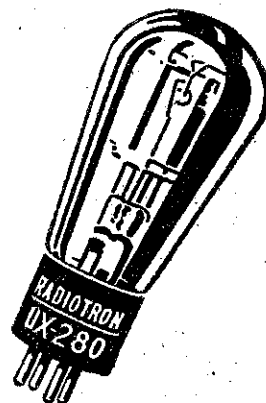
9.13: Mezzo-soprano solos—Miss Myra Edmonds, (a) "Cavatina de Lella" (Bizet); (b) "The Wind's in the South" (Scott).

9.19: Pianoforte solo—Miss Lucy Fullwood, "Sonata" (Scarlatti).

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WELLINGTON.

Wednesday, August 28

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, AUGUST 28.

2.0 : Afternoon session—selected studio items.

4.0 : Literary selection by the Announcer.

4.8 : Studio items.

- 9.23: Bass solos—Mr. W. H. Inkster, (a) "Answer" (Robyn); (b) "Dawn Skies" (Drummond).
 9.29: Chorus—La Scala Chorus—"Otello—Fuoco di Gioia" (Verdi) (Columbia Record 02723).
 9.33: Instrumental—Studio Orchestra, "Wildflower" Selection (Youmans).
 9.45: Contralto solos—Miss Vera Martin, (a) "Barbara Allen" (Old English); (b) "Dream Boat" (Novello).
 9.51: Recital—Miss Dorothy Jenkin, "Yes, Papa!" (MS).
 9.56: Baritone solos—Mr. Theo. Turner, (a) "The Birth of Morn" (Leoni); (b) "Lady Mine" (Lohr).
 10.0: Violin and organ—De Groot and Terence Casey, "Parted" (Tosti) (H.M.V. Record B2920).
 10.4: Close down.

4YA, DUNEDIN (650 KILOCYCLES).—WEDNESDAY, AUGUST 28.

- 3.0: Town Hall chimes.
 3.1: Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Town Hall chimes.
 6.1: Children's session, conducted by Aunt Anita.
 7.0: News session.
 8.0: Town Hall chimes.
 8.1: Relay from the Empire Theatre of Christie organ solos, played by Mr. Leslie Harvey.
 8.15: Light vocal—Mr. Norman Scurr, (a) "Old Man Sunshine"; (b) "I Ain't Got Nobody" (Williams).
 8.22: Orchestral—Shilkret's Rhythm Melodists, "Sweet Nothin'" (Rettenberg) (H.M.V. Record EA529).
 8.25: Scottish songs—Mr. Buster Brown, (a) "He Was Very Kind to Me" (Lauder); (b) "Early in the Morning" (Lauder).
 8.32: 'Cello solo—Mr. P. J. Palmer, "A Song of India" (Rimsky-Korsakov).
 8.38: Recitals—Mr. Leslie Moller, (a) "Bertram on Geography" (Stanford); (b) "A Changed Man" (Anon).
 8.48: Baritone solos—Mr. W. Ruffell, (a) "Captain Mac" (Sanderson); (b) "Mandalay" (Willeby).
 8.55: Xylophone solo—W. W. Bennett, "Dancer of Seville" (Grunow) (Columbia Record 02745).
 8.59: Weather report.
 9.1: Relay of orchestral entr'acte from the Empire Theatre.
 9.11: Light vocal—Mr. Norman Scurr, "My Blackbirds are Bluebirds Now" (Friend).
 9.15: 'Cello solo—Mr. P. J. Palmer, "The Swan" (Saint-Saens).
 9.19: Scottish song—Mr. Buster Brown, "The Portobello Lassie" (Lauder).
 9.23: Recital—Mr. Lester Moller, "The Wife Who Sat Up" (Grossmith).
 9.30: Baritone solo—Mr. W. Ruffell, "The Muleteer of Malagar" (Trotiere).
 9.34: Columbia dance programme:
 Bass solo—Robert Easton, "Time to Go" (a shanty ballad) (Weatherley) (Columbia 01502).
 Foxtrot with vocal refrain—Paul Specht's Orchestra, "I Love You, I Love You" (Firth) (Columbia 01459).
 Foxtrot with vocal refrain—Vern Buck's Orchestra, "What a Girl! What a Night!" (Sanders) (Columbia 01469).
 9.43: Organ solo—Terence Casey, "I'm Lonely" (Coates) (Columbia 01501).
 Foxtrot—Stellar Dance Band, "In the Shadows" (Finck) (Regal Record G20451).
 Foxtrot with vocal chorus—Piccadilly Players, "Who Did? You Did" (Kalmar) (Columbia 01492).
 Waltz—Continental Novelty Quintet, "Sunlight" (Regal G20482).
 9.55: Vocal duet—Trix Sisters, "My Rock-a-bye Baby" (Leslie) (Columbia 01484).
 Foxtrot with vocal refrain—Jan Garber's Orchestra, "Weary River" (Silvers) (Columbia 01469).
 10.4: Bass solo—Robt. Easton, "If Ever I Meet the Sergeant-Major" (Wright) (Columbia 01502).
 Foxtrot with vocal chorus—Stellar Dance Band, "The Song I Love" (De Sylva) (Regal G20451).
 Foxtrot with vocal chorus—Piccadilly Players, "Happy-go-Lucky Bird" (Kalmer) (Columbia 01492).
 10.12: Organ solo—Terence Casey, "Bird Songs at Eventide" (Coates) (Columbia 01501).
 Foxtrot with vocal refrain—Ben Selvin's Orchestra, "If You Want the Rainbow" (Rose) (Columbia 01401).
 Foxtrot with vocal refrain—California Ramblers, "You're Just a Great Big Baby Doll" (Herscher) (Columbia 01365).
 Waltz—Continental Novelty Quintet, "On Board" Waltz (Regal G20432).
 10.25: Vocal duet—Trix Sisters, "I'm Crazy Over You" (Sherman) (Columbia 01484).
 Foxtrot with vocal refrain—The Cavaliers, "I Loved You Then As I Love You Now" (Axt) (Columbia 01401).
 10.34: Band—Garde Republicaine de France, "Marche Indienne" (Sellenick) (Columbia 01504).
 Foxtrot with vocal refrain—Stellar Dance Band, "Heartbroken and Lonely" (Coslow) (Regal G20380).
 Foxtrot with vocal chorus—Piccadilly Band, "A Room With a View" (Coward) (Columbia 01420).
 10.43: Baritone solo—Tom Barratt, "Happy Days and Lonely Nights" (Rose) (Regal G20457).

- Foxtrot with vocal refrain—Stellar Dance Band, "I Can't Make Her Happy" (Pollack) (Regal G20380).
 Waltz—Eddie Thomas' Collegians, "Moments With You" (Shilkret) (Columbia 01185).
 Foxtrot with vocal chorus—Piccadilly Band, "Try to Learn to Love" (Coward) (Columbia 01420).
 Waltz—Eddie Thomas' Collegians, "Moonlight on the Danube" (Gay) (Columbia 01135).
 Baritone solo—Tom Barratt, "Shout Hallelujah, 'Cause I'm Home" (Dixon) (Regal G20457).
 11.0: Close down.

Thursday, August 29

1YA, AUCKLAND (900 KILOCYCLES).—THURSDAY, AUGUST 29.

- 3.0: Concert arranged by Messrs. Lewis Eady, Ltd.
 3.30: Talk—Miss Sutherland, "Homecrafts."
 3.45: Further items by Messrs. Lewis Eady, Ltd.
 4.30: Close down.
 6.0: Children's session conducted by Peter Pan.
 7.0: News and market reports.
 7.40: Talk—Mr. D. M. Turner, "Anecdotes with the Gramophone."
 8.0: Chimes.
 8.1: Presentation of Novelty Minstrel Programme by the "Coon-Cans from Alabama."
 9.30: "His Master's Voice" Dance Programme:
 Foxtrot with vocal refrain—Jack Hylton's Orchestra, "Bluebird, Sing Me a Song" (Davis) (H.M.V. EA448).
 Foxtrot—Shilkret's Orchestra, "My Man" (Pollack) (H.M.V. EA483).
 Waltz with vocal refrain—Jack Hylton's Orchestra, "Spanish Rose" (Pearson) (H.M.V. B5481).
 9.40: Tenor solo—Browning Mummery, "Love Went a-Riding" (Bridge) (H.M.V. B2756).
 Foxtrot with vocal refrain—Ted Weems' Orchestra, "Me and the Man in the Moon" (Leslie) (H.M.V. EA490).
 Foxtrot—Ambrose and his Orchestra, "Sweet Sue, Just You" (Young) (H.M.V. EA492).
 Foxtrot with vocal refrain—George Olsen's Orchestra, "I Faw Down An' Go Boom!" (Brockman) (H.M.V. EA490).
 9.53: Baritone solo—Maurice Elwin, "There's Something about a Rose" (Fain) (Zonophone 5190).
 Foxtrot with vocal refrain—Paul Whiteman's Orchestra, "The Calinda" (Hupfeld) (H.M.V. EA476).
 Waltz with vocal refrain—Jack Hylton's Orchestra, "The Angelus was Ringing" (Damarell) (H.M.V. EA489).
 10.6: Comedian—Johnny Marvin, (a) "Sweethearts on Parade" (Newman), (b) "Where the Shy Little Violets Grow" (Kahn) (H.M.V. EA477).
 Foxtrot with vocal refrain—Hamp's Kentucky Serenaders, "I Fell Head Over Heels in Love" (Parsons) (H.M.V. EA492).
 Foxtrot—Zez Confrey's Orchestra, "Jack in the Box" (Confrey) (H.M.V. EA495).
 10.20: Comedian—Johnny Marvin, "There's a Rainbow 'Round My Shoulder" (Olson) (H.M.V. EA465).
 Waltz with vocal refrain—Hamp's Kentucky Serenaders, "Japan'sy" (Bryan) (H.M.V. EA476).
 Waltz with vocal refrain—The Troubadours, "Dolores" (Grossman) (H.M.V. EA447).
 10.30: Male quartet—National Cavaliers, "The Song I Love" (De Sylva) (H.M.V. EA474).
 Male voices—Salon Group, "Jeannine, I Dream of Lilac Time" (Gilbert) (H.M.V. EB35).
 Hawaiian—Hilo Hawaiian Orchestra, "Along Miami Shore" (Snodgrass) (H.M.V. EA415).
 Wurlitzer organ solo—Jesse Crawford, "Roses of Yesterday" (Berlin) (H.M.V. EA443).
 10.43: Tenor solo—Franklyn Baur, "I Loved You Then as I Love You Now" (Macdonald) (Zonophone BE132).
 Chorus and orchestra—Victor Arden, Phil Ohman, chorus and orchestra, Selections from "Funny Face" (H.M.V. EB28).
 Foxtrot—Waring's Pennsylvanians, "How About Me?" (Berlin) (H.M.V. EA473).
 Foxtrot—Nat Shilkret's Orchestra, "I'd Rather Be Blue" (Fisher) (H.M.V. EA483).
 Foxtrot medley—Novelty Orchestra, "Echoes of Ireland" (Zonophone 5066).
 Waltz medley—"Irish Waltz Medley" (Zonophone 5066).
 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES).—THURSDAY, AUGUST 29.

- 3.0: Chimes of the G.P.O. clock.
 3.1: Selected studio items.
 4.30 and 4.50: Sports results to hand.
 4.55: Close down.
 5.0: Children's session conducted by Uncle Len.
 6.0: Dinner session:
 Band—National Military Band, "Ballet Egyptien" (Luigini) (Zonophone Record A354).

- Bass-baritone solo—Peter Dawson, "At Santa Barbara" (Russell) (H.M.V. Record B2661).
- 6.12: Tacet.
- 6.15: Instrumental—J. H. Squire's Celeste Octet, "Memories of Mendelssohn" (arrgd. Sear) (Columbia Record O2838).
- Wurlitzer organ solo—Jesse Crawford, "Where the Shy Little Violets Grow" (Kahn) (H.M.V. Record EA521).
- 6.26: Tacet.
- 6.30: Waltz—Edith Lorand Orchestra, "La Serenade" (Metra) (Parlophone Record E10522).
- Bass-baritone solo—Peter Dawson, "The Admiral's Yarn" (Rubens) (H.M.V. Record B2661).
- Waltz—Edith Lorand Orchestra, "Venetian Barcarolle" (Leoncavallo) (Parlophone Record E10522).
- 6.42: Tacet.
- 6.45: Wurlitzer organ solo—Jesse Crawford, "When Summer is Gone" (Harrison) (H.M.V. Record EA521).
- March medley—H.M. Grenadier Guards Band, "Regimental March Medley" (Columbia Record 02851).

- 6.56: Tacet.
- 7.0: News session—Market reports and sports results.
- 7.40: Lecturette—Miss Inez Connop, "Dancing."
- 8.0: Chimes of the G.P.O. clock.
- Studio concert by the Wellington Municipal Tramways Band, under the conductorship of Mr. E. Franklin, and assisting artists:
- 8.1: Overture—Band, "The Bohemian Girl" (Balfe).
- 8.6: Vocal quartet—Lyric Quartet, "Hey Diddle Diddle" (Alfred Hill).
- 8.10: Piano solos—Mr. J. R. McKenzie, Novelty Numbers.
- 8.16: Vocal duet—Messrs. Charles Williams and Will Goudie, "Here's to the Maiden" (Deffys).
- 8.20: Humour—Miss Thelma Aitken, "At the Seaside" (Anon.).
- 8.26: Waltz—Band, "Senta" (Raymond).
- 8.32: Mezzo-soprano solo—Mrs. Norman Izett, "Sincerity" (Clarke).
- 8.36: Vocal duet—Messrs. Charles Williams and Will Goudie, "Flow Gently, Deva" (Parry).
- 8.40: Intermezzo—Band, "In a Persian Market" (Ketelbey).
- 8.48: Tenor solos—Mr. Charles Williams, (a) "Dear Old Ilfracombe" (Verne), (b) "Red Devon by the Sea" (Clarke).
- 8.55: March—Band, "Quarter-Deck" (Alford).
- 8.59: Weather report.
- 9.1: Mezzo-soprano solo—Mrs. Norman Izett, "Aramella" (Wynne).
- 9.5: Pianoforte solos—Mr. James McKenzie, Novelty Numbers.
- 9.12: Baritone solos—Mr. Will Goudie, (a) "Youth" (Allitsen), (b) "Home-land" (Richardson).
- 9.19: Selection—Band, "Rose Marie" (Friml).
- 9.31: Humour—Miss Thelma Aitken, "Foolish Questions" (Anon.).
- 9.37: Orchestral—Jack Hylton's Orchestra, "My Inspiration IS You" (Nicholls) (H.M.V. Record C1577).
- 9.41: Patrol—Band, "Jungle Drums" (Ketelbey).
- 9.47: Bass solos—Mr. W. Binet Brown, (a) "Harlequin" (Sanderson), (b) "Peter the Ploughman" (Tate).
- 9.54: Reverie—Band, "Bells at Sunset" (Mackenzie).
- March—Band, "Australasian" (Rimmer).
- 10.3: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, AUGUST 29.

- 3.0: Afternoon session—Selected studio items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 5.0: Children's session, conducted by Uncle John.
- 6.0: Dinner music. (For programme, see page 9.)
- 7.30: Talk arranged by 3YA Primary Productions Committee, "Seed Potato Certification," by Mr. C. P. Leitch (Fields Division, Department of Agriculture).
- 8.0: Chimes.
- 8.1: Overture (rebroadcast of 2YA, Wellington).
- 8.6: Presentation of the song cycle "Dorothy's Wedding Day" (Lane Wilson) by the Melodious Four Quartet, with instrumental accompaniment by the Studio Trio:
- Carillon—Quartet, "Ring Out."
- Aubade—Quartet, "Softly O'er the Mountain's Brow."
- Gavotte—Soprano, "Now the Lark is Up."
- Musette—Quartet, "Fairest Maiden."
- Minuet—Quartet, "Oh, How I Love Thee!"
- Gigue—Quartet, "All the Bells are Ringing."
- Sarabande—Contralto, "Dear Child."
- Pastorale—Baritone, "Did You Ne'er Hear."
- Pavane—Quartet, "On Both Be Now the Blessing."
- Finale—Quartet, "Ring Out."
- 8.32: Orchestral—Philadelphia Symphony Orchestra, "Rienzi" (Wagner) (H.M.V. Records ED3-4).
- 8.44: Recitals—Mrs. Margaret Williams, (a) "The Thousandth Man" (Kipling), (b) "Specially Jim" (MS.).
- 8.50: Soprano and contralto duet—Dolce Duo, "April is a Lady" (Phillips).
- 8.54: Viola solo—Lionel Tertis, "Sonata in F—Allegro" (Handel, arrgd. Tertis) (Columbia Record 04248).
- 8.58: Weather report.
- 9.0: Tenor solos—Mr. Russell Sumner, (a) "Troll the Bowl" (Sanderson), (b) "Mignonne, Here is April" (Del Riego).
- 9.6: Viola solo—Lionel Tertis, "Sonata in F—Adagio non Tanto" (Handel, arrgd. Tertis) (Columbia Record 04248).

- 9.10: Instrumental—Studio Trio, (a) "Reverie du Soir" (Saint-Saens), (b) "Spanish Dance No. 2" (Moszkowski).
- 9.19: Soprano solos—Miss Frances Hamerton, (a) "The Temper of a Maid" (Head), (b) "Deh Vieni" (Mozart).
- Bass solos—Mr. T. D. Williams, (a) "Money O!" (Head), (b) "Bashful Tom" (Kemp).
- 9.31: 'Cello solos—Mr. Harold Beck, (a) "Romance" (Debussy), (b) "Second Berceuse" (Renard).
- 9.39: Recital—Mrs. Margaret Williams, "The Carver and the Caliph" (Anon.).
- 9.43: Contralto solo, followed by tenor and baritone duet—Miss Belle Renaut and the Yeomen Duo, (a) "Moorings" (Sanderson), (b) "Bois Epaïs" (Lully), (c) "Go, Baffled Coward, Go" (Samson).
- 9.53: Orchestral—Philadelphia Symphony Orchestra, "Marche Slave" (Tchaikowsky) (H.M.V. Record D1046).
- 10.1: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, AUGUST 29.

SILENT DAY.

Friday, August 30

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, AUGUST 30.

- 3.0: Afternoon session—selected studio items.
- 4.0: Literary selection by the Announcer.
- 4.8: Studio items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 6.0: Children's session, conducted by Nod and Aunt Jean.
- 7.0: Talk—Mr. Frank Sutherland, "Rugby Football."
- 7.20: News and market reports.
- 8.0: Chimes.
- 8.1: Relay of concert from Messrs. Lewis Eady's Hall.
- 8.30: Suite—Royal Opera Orchestra, "Peer Gynt Suite" (Grieg): 1. Morning; 2. Death of Ase. (H.M.V. Record C1298).
- 8.38: Mezzo-soprano solos—Miss C. Mulqueen, (a) "A Barcarolle at Dawn" (Chopin, arrgd. Bateman); (b) "A Virginian Love Song" (Har-rhy).
- 8.45: Musical recital—Mrs. Daisy Basham and Mr. Barry Coney, "Great Composers—Mendelssohn" (Part).
- 9.0: Weather report.
- 9.2: Instrumental—Studio Trio, "Andante—Trio, Op. 85" (Reissiger).
- 9.11: Recital—Miss Nini Scott, "The Gift of Tritemeous."
- 9.15: Orchestral—Royal Opera Orchestra, "Peer Gynt Suite" (Grieg), Anitra's Dance" (H.M.V. Record C1299).
- 9.19: Mezzo-soprano solo, Miss C. Mulqueen, Valley of Laughter" (Sanderson).
- 9.23: Violin solo—Miss Ina Bosworth, Sonata in A Major" (Handel).
- 9.27: Musical recital—Mrs. D. Basham and Mr. Barry Coney—"Great Composers—Mendelssohn (Part 2).
- 9.42: Instrumental—Studio Trio, "A La Bien Aimee" waltz (Schutt).
- 9.51: Monologues—Miss N. Scott, (a) "An Only Child" (Gand); (b) "I Want to Go with Daddy."
- 9.58: Orchestral—Royal Opera Orchestra, "Peer Gynt Suite" (Grieg), "In the Hall of the Mountain King" (H.M.V. Record C1299).
- 10.2: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, AUGUST 30.

- 3 p.m.: Chimes of the General Post Office clock, Wellington.
- 3.1: Selected studio items.
- 3.30: Lecturette—Mr. Nelson Isaac, "Art and the Home."
- 3.45: Relay from Messrs. Kirkcaldie and Stains, Ltd., of tea room music, by the t.o.
- 4.0: Selected studio items.
- 4.30 and 4.50: Sporting results to hand.
- 4.5: Close down.
- 5.0: Children's session.
- 6.0: Dinner music session.
- 7.0: News session, market reports, and sports results.
- 7.40: Lecturette—Mr. W. J. Fergie, Publicity Branch, New Zealand Railways, "Excursions by Rail."
- 8.0: Chimes of the General Post Office clock, Wellington.
- Relay from College Hall, Victoria University College, of debate by Victoria College University debating club.
- 8.1: The subject of the debate will be "That the continuance of the Capitalist Economic System is in the best interests of Civilisation." For the affirmative, the speakers will be the Victoria University College debating team which will shortly leave on a debating tour of the American and Canadian universities. The members of the team are Messrs. W. J. Mountjo, G. R. Powles, and W. J. Hall. The following speakers will oppose the motion: Mr. P. Martin Smith, Miss C. E. Forde and Mr. W. P. Rollings. The subject of the debate is one of three to be debated by the touring team on their American and Canadian tour.

3YA, CHRISTCHURCH (980 KILOCYCLES).—FRIDAY, AUGUST 30.

- 3.0 : Afternoon session—selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0 : Children's session, conducted by "Storyman."
 6.0 : Dinner music. (For programme, see page 9.)
 7.0 : News session.
 8.0 : Chimes.
 8.1 : Overture—Rebroadcast of 2YA, Wellington.
 8.9 : Mezzo-soprano solo, Mrs. Maud Wood, "The Valley by the Sea" (Adams).
 8.18: Wurlitzer organ solo—Jesse Crawford, "Carolina Moon" (Davis) (H.M.V. Record EA536).
 8.17: Instrumental—Studio Trio, (a) "Waltz" (Scott); (b) "Serenade" (Widor); (c) "Magdelons Dance" (Nielsen).
 8.27: Sketch—Messrs. Cecil Collins and Alan Browne, "Old Cronies" (French). (Cast: Captain Pigeon, Mr. C. Collins; The Professor, Mr. Alan Browne).
 8.42: Baritone solo—Mr. Sydney Armstrong, "Mate O' Mine" (Ivey).
 8.46: Waltz—Jacque Jacobs' Ensemble, "Vienna Life" (Strauss) (Columbia Record 02556).
 8.50: Vocal duets with piano and ukelele—Melody Maids, (a) "In a Little Town Called Home Sweet Home" (Donaldson); (b) "Where the Shy Little Violets Grow" (Kahu).
 8.57: Weather report.
 9.0 : Instrumental—Studio Trio, (a) "Nocturne" (Widor); (b) "Canzone" ("Carmen") (Bizet); (c) "Valse Song" ("Faust") (Gounod).
 9.10: Mezzo-soprano solos, Mrs. Maud Wood, (a) "The Pipes of Pan" (Monckton); (b) "The Song of the Clock" (Burchell).
 9.15: Wurlitzer organ solo—Jesse Crawford, "A Precious Little Thing Called Love" (Davis) (H.M.V. Record EA536).
 9.18: Sketch—Messrs. Cecil Collins and Alan Browne, "Fishing" (Tate).
 9.28: Baritone solos—Mr. Sydney Armstrong, (a) "Friendships" (Lohr); (b) "In an Old Fashioned Town" (Squire).
 9.33: Popular songs with piano and ukelele—Melody Maids, (a) "Little Irish Rose" (Zamecnik); (b) "Old Man Sunshine" (Warren).
 9.40: "Brunswick" dance programme:
 Foxtrots with vocal chorus—Bob Haring's Orchestra, (a) "Some Sweet Day" (Shilkret); (b) "Weary River" (Clarke-Silvers) (Brunswick 4273).
 Foxtrot with vocal chorus—The Clevelanders, "I'm Thirsty for Kisses, Hungry for Love" (Davis) (Brunswick 4252).

- 9.50: Wurlitzer organ solos—Eddie Dunstedter, (a) "Parade of the Wooden Soldiers" (Jessel); (b) "Ah! Sweet Mystery of Life" (Young) (Brunswick 4293).
 Waltz with vocal chorus—Bob Haring's Orchestra, "A Night in May" (Simon) (Brunswick 4310).
 Waltz with vocal chorus—Thematics Orchestra, "Giovanna" (Kountz) (Brunswick 4297).
 Waltz with vocal chorus and whistling—"Eight Radio Stars, "The Dream Girl of Pi. K.A." (Shields) (Brunswick 4310).
 10.7 : Male trio—Earl Burnett's Biltmore Trio, "Avalon Town" (Brunswick 4262).
 Foxtrots with vocal chorus—The Captivators, (a) "I Used to Love Her in the Moonlight" (Lewis); (b) "Step by Step, Mile by Mile, I'm Marching Home to You" (Silver) (Brunswick 4308).
 Waltz with vocal chorus—Thematics Orchestra, "Lady Divine" (Kountz) (Brunswick 4297).
 10.20: Solo and chorus—Vernon Rickard with Hatch's Melody Makers, "One Golden Hour with You" (Pollack) (Brunswick 4282).
 Foxtrot with vocal chorus—Fred Hamm and His Collegians, "True Blue" (Garland) (Brunswick 4294).
 Foxtrots with vocal chorus—Bob Haring's Orchestra, (a) "Down Among the Sugar Cane" (Tobias); (b) "Because I Know You're Mine" (Derickson) (Brunswick 4283).
 Waltz with vocal chorus—Colonial Club Orchestra, "Why Don't You Love Me?" (Mason) (Brunswick 4294).
 10.35: Male chorus—Famous Forty Elks Chorus, "Sweet and Low" (Barnby) (Brunswick 3973).
 Foxtrots with vocal chorus—Bob Haring's Orchestra, (a) "Deep Night" (Vallee); (b) "Wedding Bells" (Kahal) (Brunswick 4246).
 oWaltz with vocal chorus—Hotel Roosevelt Orchestra, "Coquette" (Berlin) (Brunswick 4284).
 Foxtrot with vocal chorus—Hotel Roosevelt Orchestra, "Till We Meet" (Davis) (Brunswick 4284).
 11.0 : Close down.

4YA, DUNEDIN (650 KILOCYCLES).—FRIDAY, AUGUST 30.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 3.15: Lecturette on "Fashions," by Miss Buccleuch, of the D.S.A.
 3.30: Studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0 : Town Hall chimes.
 6.1 : Children's session, conducted by Aunt Shiela and Big Brother Bill.
 8.0 : Town Hall chimes.
 8.1 : Overture—Royal Philharmonic Orchestra, "The Flying Dutchman" (Wagner) (Columbia Records L1961/2).
 8.13: Sea shanties—Mr. O. Garden and chorus, (a) "Whisky Johnnie"; (b) "Hanging Johnnie".
 8.20: Bass solos—Mr. E. G. Bond, (a) "Rolling Down to Rio" (German); (b) "Song of the North Wind" (Head).
 8.27: Orchestral—International Concert Orchestra, "Over the Waves" (Rosas) (Zonophone Record EF3).
 8.31: Violin solo—Mr. Frank Parsons, "Morning" (Grieg).
 8.36: Choruses—Messrs. Garden McDonald, and Bond, Sea Shanties.
 8.40: Violin, flute, and harp—Neopolitan Trio, "Serenata Silvestri" (Silvestri) (Zonophone Record EF79).
 8.43: Baritone solos—Mr. R. B. Macdonald, (a) "Back From Sea" (German); (b) "Four Jolly Sailormen" (German).
 8.50: Selection—Court Symphony Orchestra, "In Venice" (Sellars) (Columbia Record 896).
 8.54: Violin solos—Mr. Frank Parsons, (a) "Anitra's Dance" (Grieg); (b) "Death of Ase" (Grieg).
 8.59: Weather report.
 9.1 : Presentation of the dramatic play, "Galapagos":

CAST:

Red Peterson Major F. H. Lampen
 Svenson Mr. Allan Young.
 The Captain Mr. J. B. Connell
 Betty Miss Anita Winkel
 Hans Mr. Frank Parsons
 Crew (..... Mr. O. Garden
 (..... Mr. E. G. Bond
 (..... Mr. R. B. Macdonald.

10.0 : Close down.

Saturday, August 31**1YA, AUCKLAND (900 KILOCYCLES).—SATURDAY, AUGUST 31.**

- 2.50: Relay description of Rugby football match from Eden Park—Auckland versus Canterbury.
 4.30: Close down.
 6.0 : Children's session, conducted by Cinderella.
 7.0 : News and sports results—market reports.
 7.40: Talk—Mr. G. D. Rutter, "Gladioli."

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- 8.0 : Chimes.
 8.1 : Orchestra—Studio Orchestra, "The Bing Boys are Here" (Ayer).
 8.11 : Baritone solo—Mr. Fred Baker, "The Pagan" (Lohr).
 8.15 : Banjo solo—Mario de Pietro, "Frivolous Joe" (De Pietro) (H.M.V. Record B2820).
 8.19 : Mezzo-soprano solo—Miss Gwennyth Evans, "I Live for You" (Thompson).
 8.23 : Instrumental—Studio Orchestra, "Beggars' Opera—Interludes" (arrgd. Austin).
 8.32 : Wurlitzer organ solos—Terence Casey, (a) "I'm Lonely" (Coates); (b) "Bird Songs at Eventide" (Coates) (Columbia Record 01501).
 8.36 : Novelty sketch—The Four Originals, "Oh, Millie! (Sequel) (Birch).
 9.6 : Weather report.
 9.8 : Instrumental—Studio Orchestra, "Suite Romantique" (Ketelbey), (1) Romance; (2) "Scherzo; (3) Valse Dramatique.
 9.18 : Chorus—London Hippodrome Chorus, "Hit the Deck" (Medley) (Youmans) (Columbia Record 02621).
 9.26 : Mezzo-soprano solos—Miss G. Evans, (a) "A Banjo Song" (Homer); (b) "In my Garden" (Liddle).
 9.33 : Mandoline solo—Mario de Pietro, "Concert Mazurka" (Calace) (H.M.V. Record B2820).
 9.37 : Baritone solos—Mr. F. Baker, (a) "A Dinder Courtship" (Coates); (b) "When the Sergeant Major's on Parade" (Longstaffe).
 9.44 : Humour—Clapham and Dwyer, "Golf" (Clapham) (Parlophone Record A2524).
 9.52 : Instrumental—Studio Orchestra, "Dance of the Tumblers" ("Snow Maiden") (Rimsky-Korsakov).
 10.0 : "His Master's Voice Dance Programme:
 Contralto solo—Lupe Velez, "Where is the Song of Songs for Me?" (Berlin) (H.M.V. EA535).
 Foxtrot with vocal refrain—Rhythmic Eight, "Don't Be Like That" (Cottler) (Zonophone EE154).
 Foxtrot with vocal refrain—Jack Hylton's Orchestra, "Sweetheart of all My Dreams" (Fitch) (H.M.V. EA540).
 Foxtrot with vocal refrain—Arcadians' Dance Orchestra, "Pokee-Okee-Oh" (Butler) (Zonophone EE155).
 Foxtrot with vocal refrain—Jack Hylton's Orchestra, "I Lift Up My Finger and Say 'Tweet Tweet'" (Sarony) (H.M.V. EA540).
 10.15 : Wurlitzer organ solo—Jesse Crawford, "A Precious Little Thing Called Love" (Davis) (H.M.V. EA536).
 Foxtrot with vocal refrain—Geo. Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn) (H.M.V. EA537).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "One For All, All For One" (Trent) (H.M.V. EA528).
 Waltz—Arcadians' Dance Orchestra, "Anita" (Pollack) (Zonophone EE154).
 Waltz—Arcadians' Dance Orchestra, "That Old Time Organ Melody" (Carlton) (Zonophone EE155).
 10.30 : Contralto solo—Lupe Velez, "Mi Amado" (My Beloved) (Lewis) (H.M.V. EA535).
 Foxtrot with vocal refrain—Geo. Olsen's Music, "Come West, Little Girl, Come West" (Kahn) (H.M.V. EA537).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "Some Sweet Day" (Shilkret) (H.M.V. EA531).
 Foxtrot with vocal refrain—Waring's Pennsylvanians, "My Mother's Eyes" (Gilbert) (H.M.V. EA530).
 10.45 : Wurlitzer organ solo—Jesse Crawford, "Carolina Moon" (Davis) (H.M.V. EA536).
 Foxtrot with vocal refrain—Kassels in the Air, "He, She, and Me" (Newman) (H.M.V. EA532).
 Foxtrot with vocal refrain—Park Central Orchestra, "Sally of My Dreams" (Kernell) (H.M.V. EA530).
 Waltz—Connecticut Yankees, "Coquette" (Berlin) (H.M.V. EA532).
 Waltz—Nat Shilkret's Orchestra, "Lady Divine" (Shilkret) (H.M.V. EA531).
 11.0 : Close down.
- 2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, AUGUST 31.**
- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Relay description of football match from Athletic Park.
 5.0 : Children's session, conducted by Uncle Toby and Aunt Gwen.
 6.0 : Dinner session:
 Selection—Savoy Orpheans, "Lido Lady" (Rodgers) (H.M.V. Record C1310).
 Kinema organ solo—Leslie Harvey, "Sonny Boy" (Jolson) (Parlophone Record A2696).
 8.12 : Tacet.
 8.15 : Waltz—Berlin State Opera Orchestra, "Wine, Women and Song" (Strauss) (Parlophone Record A4019).
 Vocal with guitar—Harry McClintock, "The Big Rock Candy Mountains" (McClintock) (Zonophone Record EE125).
 8.26 : Tacet.
 8.30 : Instrumental—Continental Novelty Quintet: "Sunlight" (Regal Record G20432).
 Kinema organ solo—Leslie Harvey's "There's a Rainbow" (Jolson) (Parlophone Record A4696).
 Instrumental—International Orchestra, "Shine on, Harvest Moon" (Norworth) (H.M.V. Record EA407).
 Waltz—Continental Novelty Quintet, "On Board" (Regal Record G20432).
- 6.45 : Selection—Debroy Somers' Band, "Good News" (De Sylva) (Columbia Record 02720).
 Instrumental—Jack Hylton's Orchestra, "A Room With a View" (Coward) (H.M.V. Record C1577).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. R. Howard Taylor, "Care of the Feet."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Snacks in Bars" (Egefer).
 8.9 : Vocal quartet—Melodie Four, "The Glow Worm" (Lincke).
 8.13 : Steel guitar duo—Messrs. Berthold and Bent, (a) "Ah! Sweet Mystery of Life" (Young); (b) "Wailana" (Alay).
 8.20 : Baritone solo—Mr. R. S. Allwright, "Muleteer of Malagar" (Trotiere).
 8.24 : Instrumental—Orchestra, "A Motor Ride" (Bidgood).
 8.32 : Humour—Mr. Jack Rowroth, "The Egg."
 8.39 : Saxophone solo—Andy Sanella, "Jack and Jill" (Sanella) (Columbia Record 01186).
 8.43 : Tenor solo—Mr. Frank Bryant, "Tat Little Feller With His Mammy's Eyes" (Gordon).
 8.47 : Vocal quartet—Melodie Four, "The Goblin's'll Get You" (Parks).
 8.51 : Selection—Orchestra, "Poppy" (Samuels).
 8.59 : Weather report.
 9.1 : Tenor solo—Mr. Sam Duncan, "I Hear a Thrush at Eve" (Cadman).
 9.5 : Wurlitzer organ solo—Terence Casey, "Keys of Heaven" (with variations) (Arrgd. Casey) (Columbia Record 02842).
 Chorus—Light Opera Company, Gems from "The Blue Mazurka" (Lehar) (H.M.V. Record EB11).
 9.13 : Trombone solo with orchestra accompaniment, "Trombone Polka" (Boulcourt).
 Instrumental—Orchestra, "Ragtime Bass Player" (Locker).
 9.21 : Humour—Mr. Jack Noworth, "A Humorous Dialogue" (original).
 9.28 : Steel guitar duo—Messrs. Berthold and Bent, (a) "Neapolitan Nights" (Kerr); (b) "Southern Blues" (Palakiko).
 9.35 : Bass solo—Mr. W. W. Marshall, "Down in the Deep Let Me Sleep When I Die" (Petrie).
 9.39 : Saxophone solo—Andy Sanella, "Aileen" (Sanella), (Columbia Record 01186).
 Chorus—Light Opera Company, gems from "Countess Maritza" (Kalmann) (H.M.V. Record EB11).
 9.51 : Instrumental—Orchestra, Dance Novelties.
 10.0 : "Brunswick" Dance Programme:
 Foxtrot with vocal chorus—Brunswick Orchestra, "I'd Rather Be Blue" (Rose) (Brunswick Record 4213).
 Foxtrot—Red Nicholls and his Five Pennies, "I Never Knew" (Kahn) (Brunswick Record 4248).
 Foxtrot with vocal chorus—Brunswick Orchestra, "My Man" (Pollack) (Brunswick Record 4213).
 10.10 : Vocal solo—Nick Lucas, "Heart o' Mine" (Rose) (Brunswick Record 4215).
 Foxtrot with vocal chorus—Los Angeles Biltmore Hotel Orchestra, "Wedding of the Painted Doll" (Brown) (Brunswick Record 4232).
 Foxtrot with vocal chorus—Los Angeles Biltmore Hotel Orchestra, "Broadway Melody" (Brown) (Brunswick Record 4231).
 Waltz with vocal trio—Los Angeles Biltmore Hotel Orchestra, "Love Boat" (Brown) (Brunswick Record 4232).
 10.22 : Vocal solo—Nick Lucas, "Old Timer" (Rose) (Brunswick Record 4215).
 Foxtrot with vocal trio—Los Angeles Biltmore Hotel Orchestra, "You Were Meant For Me" (Brown) (Brunswick Record 4231).
 Foxtrot—Jungle Band, "Tiger Rag" (La Rocca) (Brunswick Record 4238).
 10.34 : Tenor solo—William O'Neal, "Softly, as in a Morning Sunrise" (Romberg) (Brunswick Record 4208).
 Foxtrot—Barnes' Royal Creolians, "It's Tight Like That" (Dorsey) (Brunswick Record 4244).
 Foxtrot with vocal chorus—Paramount Hotel Orchestra, "I'll Never Ask For More" (Tuck) (Brunswick Record 4203).
 Foxtrot with vocal chorus—Hotel Roosevelt Orchestra, "I Want to be Bad" (De Sylva) (Brunswick Record 4204).
 One-step, Rhythm Aces, "Jazz Battle" (Smith) (Brunswick Record 4244).
 10.49 : Tenor solo—William O'Neal, "Stout-Hearted Men" (Romberg) (Brunswick Record 4208).
 Foxtrot with vocal chorus—Paramount Hotel Orchestra, "When the World is at Rest" (Davis) (Brunswick Record 4203).
 Foxtrot with vocal chorus—Hotel Roosevelt Orchestra, "Button up Your Overcoat" (De Sylva) (Brunswick Record 4204).
 Foxtrot—Red Nicholls and His Five Pennies, "Who's Sorry Now?" (Kalmann) (Brunswick Record 4243).
 11.0 : Close down.
- 3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, AUGUST 31.**
- 2.45 : Relay description of Rugby football match from Lancaster Park.
 4.45 : (approx.) Close down.
 5.0 : Children's session, conducted by Aunt Pat.
 6.0 : Dinner music. (For programme, see page 9.)
 7.0 : News session.
 7.30 : Sports results to hand.
 7.59 : Opening announcement.
 8.0 : Chimes.
 8.1 : Rebroadcast of 2YA, Wellington (Vaudeville Programme).

- 8.30: Ringside description of N.Z. Amateur Boxing Championships relayed from Greymouth.
- 10.0 : "Brunswick" Dance Programme:
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "He, She and Me" (Newman) (Brunswick 4258).
 Novelty foxtrot—Joe Rhnes' Orchestra, "Fashionette" (Glogau).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "Angry" (Brunswick 4224).
- 10.13: Baritone solo—Richard Bonelli, "Luna D'Estate" (Summer Moon) (Tosti-Mazzola) (Brunswick 12193).
 Foxtrot tango with vocal chorus—The Clevelanders, "Mi Amado" (My Lover) (Lewis) (Brunswick 4241).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "What a Girl! What a Night!" (Sanders) (Brunswick 4205).
 Foxtrot—Ray Miller's Orchestra, "That's a Plenty" (Brunswick 4224).
- 10.25: Baritone solo—Richard Bonelli, "Visione Beneziana" (Vision of Venice) (Brogi-Orvieto) (Brunswick 15198).
 Foxtrot with vocal chorus—The Six Jumping Jacks, "Olaf" (Gilbert) (Brunswick 4219).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "Yo Te Amo" Means I Love You (Bryan) (Brunswick 4241).
 Waltz with vocal chorus—Ray Miller's Orchestra, "The Waltz I Can't Forget" (Kahn) (Brunswick 4258).
- 10.37: Vocal duet—Lester McFarland and Robt. Gardner, "Birmingham Jail" (Traditional) (Brunswick 293).

- Foxtrot with vocal chorus—Colonial Club Orchestra, "Monna Vanda" (Sweetheart Sublime) (Brunswick 4186).
 Vocal duet—Frank Luther and Carson Robison, "My Tennessee Mountain Home" (Davis) (Brunswick 297).
 Foxtrot with vocal chorus—The Six Jumping Jacks, "The Monte Carlo Song" (Endor) (Brunswick 4129).
- 10.50: Vocal duet—Lester McFarland and Robt. Gardner, "Go and Leave Me if You Want To" (Traditional) (Brunswick 293).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, (a) "Let's Sit and Talk about You" (Fields); (b) "In a Great Big Way" (Fields) (Brunswick 4223).
- 11.0 : Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SATURDAY, AUGUST 31.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 6.0 : Town Hall chimes.
 6.1 : Children's session, conducted by Uncle George.
 7.0 : News session.
 8.0 : Relay of 3YA, Christchurch.
 10.0 : "Brunswick dance programme:
 Novelty foxtrot—Jesse Stafford's Orchestra, "Kewpie" (Rose) (Brunswick 4249).
 Foxtrot with vocal chorus—Jesse Stafford's Orchestra, "A Precious Little Thing Called Love" (Davis) (Brunswick 4249).
 Foxtrot—Red Nicholls and his Five Pennies, "Roses of Picardy" (Wood) (Brunswick 4286).
 Waltz—Pianoforte solo—Rosita Renard, "Blue Danube" (Strauss) (Brunswick 4240).
- 10.16: Vocal duet—Francis Luther and Jack Parker, "Carolina Moon" (Davis) (Brunswick 4286).
 Foxtrot with vocal chorus—Gerunovich's Roof Garden Orchestra, "I'm Telling You" (Rose) (Brunswick 4190).
 Foxtrot—Jungle Band, "Paducah" (Redman) (Brunswick 4309).
- 10.28: Soprano with novelty accompaniment—Marie Tiffany, "Little Grey Home in the West" (Wilmot) (Brunswick 15197).
 Foxtrot with vocal chorus—Gerunovich's Roof Garden Orchestra, "I Found You Out When I Found You In" (Ponce) (Brunswick 4190).
 Foxtrot—Royal Creolians, "Third Rail" (De Mars) (Brunswick 7072).
 Vocal duet—Francis Luther and Carson Robison, "You Can't Take My Memories From Me" (Davis) (Brunswick 4202).
- 10.41: Organ solo—Lew White, "Coquette" (Berlin) (Brunswick 4301).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "No One in the World but You" (Robison) (Brunswick 4194).
 Foxtrot—Brunswick Orchestra, "Dardanella" (Fisher) (Brunswick 4218).
 Waltz with vocal chorus—Regent Club Orchestra, "Poor Punchinello" (Lewis) (Brunswick 4206).
- 10.50: Soprano solo—Marie Tiffany, "Pale Moon" (Indian Love Song) (Logan) (Brunswick 15197).
 Foxtrot with vocal chorus—Brunswick Orchestra, "Redskin" (Brunswick 4218).
 Waltz with vocal chorus—Regent Club Orchestra, "Loneliness" (Polack) (Brunswick 4206).
- 11.0 : Close down.

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Sunday, September 1

1YA, AUCKLAND (900 KILOCYCLES).—SUNDAY, SEPTEMBER 1.

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.30 : Close down.
 6.0 : Children's session, conducted by Uncle Leo.
 6.55: Relay from St. Matthew's Church of evening service—Preacher: Canon G. H. Grant Cowan. Organist: Mr. J. H. Phillpot.
- 8.30: (approx.) Studio programme:
 Orchestral—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck) (Columbia Record 02721).
 Soprano solo—Miss Ivy Taylor, "A Moorish Maid" (Parker).
 Pianoforte solo—Robert Lortat, "Prelude, Nos. 14 and 15" (Chopin) (Columbia Record 02789).
 Tenor solos—Mr. A. L. McPherson, (a) "Thy Rebuke"—"Behold and See"; (b) "Thou Didst Not Leave" (Handel).
 Choral—La Scala Chorus—"Fuoco di Gioia" ("Otello") (Verdi) (Columbia Record 02723).
 Baritone solo—Mr. Reg. Richards, "O God, Have Mercy" (Mendelssohn).
 Organ solo—Edouard Commette, "Fantasie in G. Minor" (Bach) (Columbia Record 02746).
 Soprano solos—Miss I. Taylor, (a) "Orpheus With His Lute" (Sullivan); (b) "Yung-Yang" (Bantock).

AT 1YA.

TUESDAY, AUGUST 27: It will be a happy hour to-night with Uncle George and some new cousins, who will sing and recite.

WEDNESDAY: Once again Uncle Tom is in charge of "mike" and many a joke he will have to tell. Cousin Edna will play the piano and Cousin Wilfred will recite.

THURSDAY: Miss Blamires is bringing her pupils to the studio this evening, after their successes at the examinations. Peter Pan will have stories to tell, and birthday greetings to send.

FRIDAY: Tune in for a bright hour with Nod and Aunt Jean—more clever verses from Aunt Jean, the rhymster—and stories from Nod, the teller of tales.

SATURDAY: Saturday brings Cinderella with stories and jokes. Tiny Tots will supply the musical portion of the programme and there will be the usual visits from Red coat.

SUNDAY: Children's Song Service conducted by Uncle Leo, assisted by St. Stephen's Presbyterian Sunday School.

2YA SESSIONS.

MONDAY, AUGUST 26.

Uncle Jeff to-night, with song, puzzle and birthday greetings; and three ever-welcome Cousins will entertain Radioland—Cousin Bert, who plays the piano, Helen, who will sing a birdie song, and Cousin Zac with his merry tunes on the steel guitar.

TUESDAY.

Uncle Jim will give the birthday greetings to-night. The Kauri Scout Troop will be here, under Mr. C. F. Clark. They will sing happy songs and choruses.

THURSDAY.

Uncle George and Aunt Gwen on relay from St. Mary's Home, Kauri. Everyone can look forward to hearing these happy cousins of Radioland. Their singing has always given us so much pleasure.



Aunt Gwen, of 2YA, whose charming personality has won for her a wide circle of admirers. —Jauncey Studio.

FRIDAY.

Big Brother Jack with Robinson, and a programme from some new cousins, the pupils of Mrs. A. I. Murray.

SATURDAY.

Uncle Toby and Aunt Gwen will give a little talk, some greetings, song, and story. There will be Cousin Ella, too, with her jolly songs.



Uncle Tom, of 1YA, a well-known friend of the children.

—Photo, Tournaquist.

SUNDAY.

The children's song service will be conducted by Uncle George, assisted by St. Aidan's Sunday School Choir under Mrs. Wahlers.

3YA SESSIONS.

MONDAY, AUGUST 26: Did our mothers and fathers always behave well? Did they always know their lessons and have their homework correctly done? To-night Scatterjoy will tell you all about "School in New Zealand in the Early Days!" Also poems from the Poet's Corner to be read out. Will you send one in?

WEDNESDAY: Uncle Frank in charge, while Mother Hubbard is away on holiday. Cousins Arthur and Frank helping in songs and music.

THURSDAY: Uncle John up to time to-night with his chippy, breezy stories, and Miss Boswell's violin pupils, with Cousins Dorothy and Eric helping with music and songs.

FRIDAY: Storyman in charge, and the Captain on deck too; and the crew of our ship made up of Cousins Gerald, Molly and Phyllis.

SATURDAY: Aunt Pat with a group of St. Saviour's girls will fill this bedtime hour with happiness and joy.

SUNDAY: Our Children's Song Service conducted by Rev. Ruggy Pratt, who will be assisted by the children from the Methodist Sun-

FROM 4YA.

MONDAY at Station 4YA, Madame Reggiardo's bairns will play; **TUESDAY** should bring you lots of, joys,

A brass band played by Albany Street Boys;

WEDNESDAY, also, you'd better believe

Will bring sweet voices led by Ensign Neev;

THURSDAY'S nothing, but **FRIDAY** then

The Nesbit Home Girls sing again; **SATURDAY** comes, and 'twixt me and you,

Everybody goes to the Melbourne Zoo;

Tenor solo—Mr. A. L. McPherson, "Sleep On" (Mawson-Marks).

Orchestral—Columbia Symphony Orchestra, "Scarf Dance" (Chaminade) (Columbia Record 01371).

Baritone solos—Mr. Reg. Richards, (a) "Oh, Could I But Express in Song" (Malashkin); (b) "Eleanore" (Coleridge-Taylor).

9.30: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, SEPTEMBER 1.

3.0: Afternoon session—selected studio items.

4.30: Close down.

6.0: Children's service, conducted by Uncle George.

7.0: Relay of service from Trinity Methodist Church—Newtown: Preacher: Rev. T. W. Vealie. Organist: Miss Lillian Thawley. Choir-master: Mr. W. McClellan.

8.15: (approx.)—Relay from Grand Opera House of recital by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew. Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, SEPTEMBER 1.

3.0: Afternoon session—selected studio items.

4.30: Close down.

5.30: Children's song service.

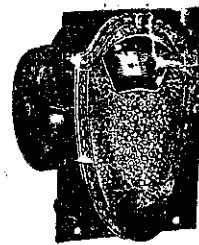
6.15: Hymn chimes from Studio.

6.30: Relay of service from Durham Street Methodist Church—Preacher: Rev. W. T. Blight. Organist and musical director: Mr. Ernest Firth, F.R.C.O.

7.45: (approx.)—Studio programme:

8.15: (approx.) Rebroadcast of 2YA, Wellington (relay from Grand Opera House, Wellington, of concert by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew). Close down.

Still something NEW from the Emmco Factory



Mellow Vernier Drum Control

Emmco's Mello Vernier Drum Control offers the most perfect combination. Rigidly constructed, it is capable of carrying five or more condensers on a quarter-inch shaft. Provides wonderfully smooth, perfect action and is simply operated by a knob control.

The Drum Control is equipped with a handsome art metal escutcheon, finished in oxidised silver and oxidised copper and is specially adapted for screened grid valves, mounting template provided.

Price 25/-
Price, illuminated 28/-

All made in two capacities: .0005 and .00035.

EMMCO PRODUCTS ARE FULLY GUARANTEED.

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Our Mailbag

(Continued from page 12.)

"Kindness Personified."

WE enjoy the programmes put on by the Radio Broadcasting Company, including the relays, which come through perfectly. I was surprised at "A Friendly Critic" suggesting Mr. Drummond's "Goo-o-d Night" is drawn out to amuse us. —What rubbish? I prefer to think, and I wonder if others do, that he is sincerely wishing us a good night. Aunt Gwen seems a personal friend also, and I enjoy listening to her voice very much. She must be kindness personified. Would you publish her photo for us, please?—NOT INTELLIGENT (Kaitia).

Extended Hours.

I **CONTENT** that the company's policy of waiting for increased revenue before extending further broadcast services, is wrong and can only result in hindering the progress of radio in New Zealand. Extend the hours of broadcasting, improve, where possible, the service and programmes, and I feel sure the company will soon reach the thousand of potential listeners that are at present available. With New Zealand's population, we do not need to think about a possible saturation point in radio licenses until the 150,000 mark is reached. Optimistic? Well, yes, possibly so. Nevertheless, 'tis honest optimism, and I believe what I have stated.

We who have been connected with radio since the old 2YK days, can well appreciate the present standard of programmes and service we now enjoy. But if radio is to progress and take its rightful place among the people of New Zealand, it will be necessary for the Radio Broadcasting Company to refrain from "sitting back and waiting for the increase." With warmest good wishes for the future prosperity and advancement of your "Radio Record," and also the New Zealand Radio Broadcasting Company.—H.J.C. (Pet-one).

I Satisfied.

I **WISH** to add a few words in appreciation of the service rendered by the Broadcasting Company, and also by the announcer of 2YA, to whom we delight to listen, and regard him as an old friend. His delivery is very clear, and one can hear every word, which makes all the difference to the programmes. We hope to hear him for a good many years yet.—W.W. (Master-ton).

I **WISH** to congratulate the Broadcasting Company for the way they are carrying on their business. I do think they are doing their best to give us as much for our 30 shillings a year as they can. I dare not try to find fault. Modern music and song I do not understand, but in these days of different tastes it would never do to expect every night songs of 70 years ago. All the announcers that I have heard are very pleasant, plain speakers.—B.L. (Havelock North, H.B.).

DX Notes

Japanese Identified.

WOULD you identify—

1. A Japanese station between 1YA and 2BL? It is slightly nearer to 1YA (JODK, 345 metres, 865 kilocycles).
2. Another Jap. two degrees below 3LO? (JOAK, 375 metres, 800 kilocycles).
3. Another Jap. just above 4QG? (JOGK, 380 metres, 790 kilocycles).
4. Was station 2YB operating at 6.45 p.m., Tuesday, August 6. I had a station about 2YB's wavelength at that time, and I thought it might be KFOX, California. It was fairly weak.
5. Was 2FC operating at the same time and day as above? I had a weak station on 2FC's wave, and think it might have been KPO, San Francisco.—Query (Te Awamutu).

Two Stations Identified.

RE "Puzzled" and "Beginner's" inquiries for station identification: "Puzzled" has been hearing KZBM, Manila, Philippine Islands. "Beginner" heard KMOX, St. Louis, U.S.A.—D. W. Tapp (Rotorua).

Philippine Station.

KAUSPANKA (Hastings) writes:—"The following may interest short-wave enthusiasts. I think I heard the new Philippine station on 50 metres on Sunday, July 28. I first heard this station at 10.30 p.m., playing dance items at RS. The announcements were barely readable, but the American accent could easily be recognised. I was listening to this station till midnight, when I turned off. There were two speeches in Japanese during the programme, and the announcer must have been speaking faintly as the Japanese was as loud as the music.

"On the long waves my latest logging is WBAP, Texas, on 800 kilocycles. I heard this at 5.30 last Monday, 12th, just before it closed down. Signals were almost at full speaker strength. Small stations like KFSD are coming in easily readable on speaker."

"I have just received a verification from KFSD, with four valves. I have now 34 Americans. I think "Switch" was wrong with regard to the frequencies of the two Japs. about which he wrote last week, as a card I received last week gives the Jap. stations as follows (all 10 kw., with the exception of JOCK, which is 1 kw.):—JOAK, 870 kcs., 345 metres; JOBK, 750 kcs., 400 metres; JOCK, 810 kcs., 370 metres; JOFK, 850 kcs., 353 metres; JOGK, 790 kcs., 380 metres; JOHK, 770 kcs., 390 metres; JOIK, 830 kcs., 361 metres.

"Hoping this will help to clear up any doubt about the Japs."

Good D.X. Period.

IN reply to "Beginner" (Hastings), inquiring identity of station heard, but he does not think anybody can locate this station for him if he does not say wavelength or else position on his dials. This is the kind of D.X. notes to help other listeners who have not the luck to hear the call clearly. Also I must draw attention to D.X. listeners in New Zealand in keeping their results to themselves. Some good bags of American stations have been amassed on the East Coast where the

Trade Developments

PHILIPS LAMPS announce the arrival of three new products. A new type B and C eliminator, a simplified version of Type 3003. Four positive B tapping sockets are provided, and adequate C bias provision is made by having three sockets, one of which provides a fixed self-regulating bias for a power valve. Other sockets are independently adjustable between 1 and 20 volts.

Another new product is a new cabinet speaker known as the "Concert Grand." The cabinet is of wood, seven sided and available in two attractive finishes. The pitch of the speaker may be adjusted during operation by means of a three-position switch embodied in the cord.

Two new types of rectifying valves are also announced. No. 1560 full-wave equivalent to UX280; and No. 1562 half-wave equivalent to UX281.

THE Crosley Radio Corporation, America, has introduced new lines to fulfil the demands of the radio-listening public. These new lines, of which we hope to see representations on the New Zealand market before long, are:

1. Four screen grid models. These range from the unit enclosed in a simple case to a beautiful console.
2. Six models have been produced in burle walnut-finished cabinet decorated in white metal in new and original designs. These include battery sets, A.C. sets, straight-out and push-pull; circuits. One includes the screen grid.
3. The drum type dial calibrated in kilocycles has been fitted to each one of the fifteen new models.
4. A new type of speaker, the Dynacoil, claimed to be the last word in moving coil speakers, giving refinement, clarity, and richness of tone, has also been introduced.
5. Separate units of legs are manufactured to fit the table model.

Americans have been coming through with great volume lately. Some are on the air till late in the evening. I hope to see some good D.X. notes in the future.—S. Ellis (Okato).

D.X. Competition.

IN this week's "Record" I see an inquiry from "Beginner" (Hastings) for the call-sign of an American station. He doesn't give anything to identify it by, but the only station I heard speaking of the endurance flight was KMON, St. Louis, on 275 metres.

Re Mr. Ellis's inquiry of station 2ZH, Napier. This station transmits on Sundays from 3 to 4.30 p.m. and 7 to 9.30 p.m. and Wednesdays from 7.30 p.m. to 10 p.m. He is at present operating on 20 watts, but hopes to be on 30 watts soon.

I notice that several of the Americans have been going to 10 and 11 p.m. New Zealand time lately with a programme of request gramophone items. One Sunday night I heard KFOX sign off at 3 a.m. (their time 10.30 p.m. New Zealand time).

I haven't seen many competitors for the position of D.X. king yet. My log now totals 64 stations, 45 being verified. This is on four valves.—A. E. Ireland (Taradale).

[Mr. Ellis has reported the largest number—60 verified on a five-valve receiver. Mr. Ireland, with 45 on four valves, is a good second.]

ATWATER KENT RADIO

Model 40---£37/-/-

complete with valves

AN unusually powerful, selective and compact receiving set which takes its power directly from the AC house circuit. Due to its small size it can be placed in any room without disturbing its present furnishings. Notwithstanding its unusually low price, it contains only the finest craftsmanship and materials; mass production, with its resultant economies, brings this receiver within the reach of all.

All-electric

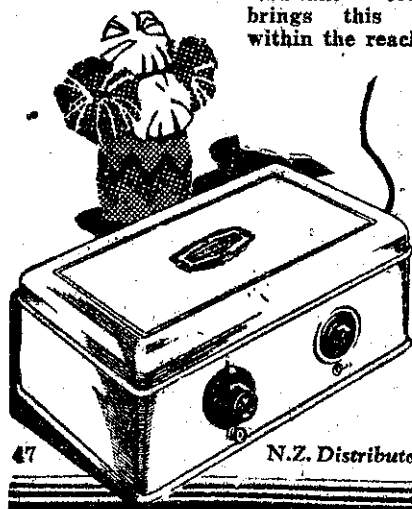
... using
four UX 226 valves
one UX 227 valve,
one UX 171A valve
one UX 280

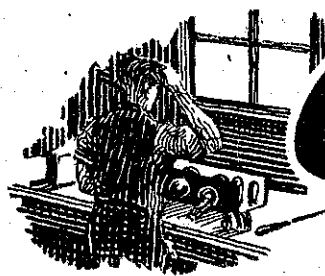
Rectifier

It costs but a fraction of a penny an hour to run. Hear every station in range come in clearly as you turn the Full Vision dial. Hear it for yourself ... to-day.

Dealers Everywhere!

N.Z. Distributors: C. & A. Odlin & Co. Ltd., Wgtn.





Questions and Answers



Concerning a Portable.

I AM shifting about quite a great deal. Would it be advisable to get a license for a portable set? asks "B.W." (Waipawa).—Yes.

Tightening Valve Bases.

"RADIO" (Hawke's Bay) asks how he might tighten the glass of the valve to its ebonite base.

A.: Run a liberal quantity of seccotine between the glass and the valve base. (See Notes by "Switch.")

Deep Notes Predominate.

CAN you suggest a remedy for the over-preponderance of the base from an amplifier connected with a gramophone pick-up? asks "W.W." (Wanganui).

A.: Between the pick-up and the amplifier connect a series condenser ranging in capacity from .0005 to .001 mfd.

Browning Drake Receiver.

"W.F.T." (Christchurch) asks concerning the Browning-Drake. Is A435 suitable for the R.F. stage?—No, use A409, with 17 turns on the primary.

Charging "B" Batteries.

"J.F." (Norfolk Island) asks if a "B" battery may be arranged in series parallel so that it may be charged at 6 volts like an "A" battery.

A.: Yes, it would be quite feasible if the charger will deliver 5 amps.

Cone For Dynamic Speaker.

WHAT is the advantage of a 10 $\frac{1}{2}$ in. cone used with a dynamic cone speaker? writes "W.D." (Karori).

A.: A 10 $\frac{1}{2}$ in. cone emphasises the lower notes, and unless carefully constructed

will make these predominate. It is then not suitable for amateur construction. For this purpose the most efficient size is 7 to 9 inches.

Concerning Headphones.

THE magnet in the earphones seems to have lost its magnetism, writes "A.R.P." (Christchurch). Could it be remagnetised?

A.: Not without a great deal of trouble. This is a task for a radio dealer; even then it may not be satisfactory.

Use of a High Resistance Valve.

HOW many turns shall I put on the primary to match a 435 high resistance valve? asks "D.O.T." (Kati Kati).

A.: 435 is not a suitable valve for transformer-coupled R.F. stages. It is suitable only when used in tuned anode circuits. However, about 30 turns on the primary will suffice.

Battery Charger Problem.

"J. McM." (Arapuni) has been advised to alter the type of valve (328) used in his home-constructed "A" battery charger. He asks if this change to 461 is necessary? The charger appears to be working quite satisfactorily.

A.: No, there is nothing to be gained by making the change. The valves are almost identical, with the exception that 328 will deliver a slightly higher voltage.

Valve Efficiency.

"NEW CHUM" (no address) asks whether a PM1 could be replaced with a PM3 to obtain greater volume.

A.: A 4-volt valve (PM3) gives slightly stronger signals than a 2-volt valve (PM1), the amplification factor of the former being greater than that of the latter. However, the difference is slight, and unless the 2-volt valve is to be discarded through inefficiency or breakage it is not worth making the change.

Valve Rectifying.

"E.A.F." (Wellington) complains that while using the "Crystal and Valve with Three-valve Performance," signal strength is improved when the crystal is removed from the transformer.

A.: The valve is rectifying. Bias it with about 5 volts. Connect the negative terminal of this "C" battery to "T" or "GB" of this transformer, and the positive to "A—."

2. I am using PM2. Would any other 2-volt valves give better results?

A.: PM 1LF would give slightly louder signals.

Short-wave Difficulties.

"R.O.S." (Wellington) complains that he cannot get his short-wave set to bring in outside stations. The set will oscillate satisfactorily only on one band, while on another it oscillates too fiercely.

A.: Reduce the size of the series condenser in the aerial lead by removing some of the plates. Increase the capacity of the reaction condenser to at least .00035. Use a higher value grid leak—6, 7, or 8 megohms. Reduce the number of turns on the tickler coil of the frequency band that oscillates too violently. Put separate voltage on the detector and the audio valve, keeping the detector at about 22 $\frac{1}{2}$ and the audio at least at 45. Disconnect the earth.

Whistling in the Speaker.

COMPLAINING of a continuous whistle in the speaker, "Enquirer" (Rockville) asks for advice.

A.: It appears that the set is not neutralised. Try re-neutralisation on the methods laid down in previous issues of the "Record," and in the "Radio Listeners' Guide." Another cause may be feedback due to run-down batteries. Try a by-pass condenser between "B plus" R.F. and earth, or "B minus." The speaker cords may be too near the input, while the "C" battery is inadequate. At least, 18 volts are required for the valve in the last stage.

A Characteristic of the Detector.

WHEN I remove the grid leak reception improves very noticeably. Is this unusual? writes G.I.L. (Waipukurau).

A.: This is a characteristic of your detector. Unless you suspect reception to be bad with the grid leak removed, leave the grid leak out permanently.

2. I am using a power valve requiring 18 $\frac{1}{2}$ volts, but my set is wired to provide the same grid voltage for the three audio valves. How can I put separate voltage on this power valve?

A.: Disconnect the lead between "GB" — and the GB terminal of the last transformer, and take the lead from the 18 $\frac{1}{2}$ volt negative tapping to this.

3. Could you supply a circuit for a shortwave adaptor not using a tickler coil?

A.: This would not be worth while. The adaptor described in the "Listeners' Guide."

Position For Valves.

I HAVE the following valves, writes "H.W.B." (Lower Hutt). Could you tell me their position in a 5-valve battery set? DE 8 LF (Two), DE 5, UX 201 A, PM 5X.

A.: Radio-frequency DE 5 and 201 A, detector PM 5X, audio-frequency, DE 8 LF. The set could be improved by the use of a power-valve in the last stage. It is difficult to recommend any one make of power-valve with a combination such as is used. DEF 610 Osram, Radiotron 171A, PM 256, are all suitable in the makes already used.

2. Would it be of any advantage to selectivity or strength to increase my battery voltage to 155?

A.: If a power-valve is used in the last stage, tone will be improved, and sensitivity slightly increased.

3. My battery charger shows 5 amps. when on charge. Is this too high for a 6-volt battery?—No.

4. When charging an additional two cells, is there any adjustment to the charger required?

A.: Unless the charger has a 10-volt winding, there is no chance of charging an extra two cells, in the usual manner. By connecting the positives of two accumulators and the negatives of these, 6-volt accumulators, each to a separate tapping on the charger, two could be charged quite satisfactorily.

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V12

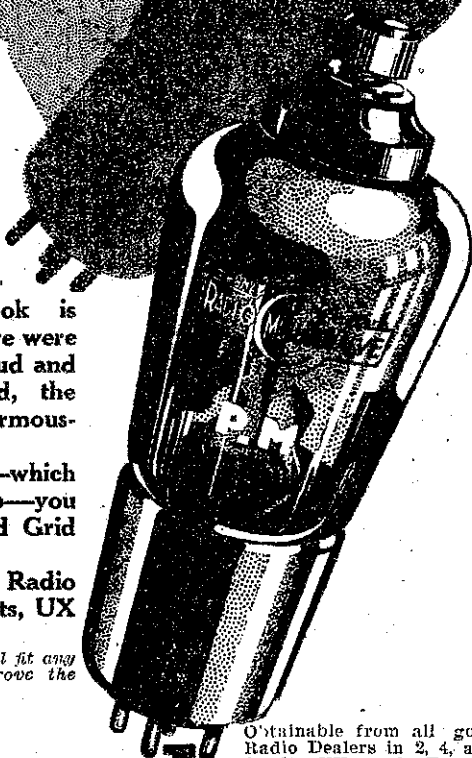
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Anode Bend Detection

For Local or Distance

(By "MEGOHM")

Second Instalment.



AST week a unit was described in which any valve suitable for use as a detector might be employed as an anode bend detector for local reception. Generally speaking, the lower the impedance of the valve, the higher will be the grid bias required. By using a valve of not less than 50,000 ohms impedance, the required grid bias will be less than a volt, and provided that the unit is only to be used with a valve of such impedance, then the bias battery may be omitted, and the bias obtained from the potential divider across the A battery alone. This entails only the omission of the bias battery and joining together the two wires previously connected to it. This method will give a negative bias up to half the voltage of the A battery, variable from zero upwards.

Another method is to omit the bias battery and potential divider and obtain bias from the voltage drop across the filament rheostat, provided there is the necessary margin between the filament voltage of the valve and the battery voltage, as when a 5-volt filament is run from a 6-volt battery. This gives a bias of one volt, which may be more than is required in some cases. Even the small drop available from a 3.7 or 4-volt valve on a 4-volt accumulator may prove sufficient, as some valves will give good results with practically no bias. The only objection to obtaining bias in this way is that it is not conveniently variable. For this purpose the rheostat must be in the negative leg of the filament, and grid return to negative also.

An Experiment.

By shorting-out the grid-leak and condenser of a two R.F. Browning-

Drake, placing the detector rheostat in the negative lead, and grid return to negative, a valve of 55,000-ohms impedance gives excellent results, with much less tendency to overloading the detector, and with greater stability. The anode head detector must be fed with strong signals, and these are obtainable with the two stages of R.F. Moreover, the reduced tendency to overloading in this class of detector, compensates in great measure for its less favourable conditions for amplification. This is an experiment that any owner of a two R.F. Browning-Drake may test for himself.

Alternative Biasing Methods.

THE biasing circuit shown last week allows of fine adjustment, once the voltage of the bias battery has been determined. This method, also, does not put any potential divider drain upon the bias battery, thus greatly prolonging its life.

Accompanying diagrams show three alternative methods of employing a bias battery. No. 1 shows the placing of a battery where the required bias value is known approximately, but this method gives no more adjustment than the "C" battery taps. No. 2 shows how the potential divider may be connected across both "A" and "C" batteries, giving a wide range of voltages, whilst No. 3 shows the connections with the potential divider across the "C" battery only. As a rule, the drain of the potential divider on an "A" accumulator will be negligible, but on dry cells care must be taken that it is not of two low a value, otherwise the life of the cells will be shortened.

In the diagrams, "B" negative is shown joined to "A" positive, but this may be connected to "A" negative without in any way affecting the remainder of the circuit.

Action of the Anode Rectifier.

REFERENCE to the diagram, which shows roughly the characteristic curve of a valve, we note that there is a straight portion, with a curved or "bend" portion at either extremity.

tive alternating impulses of the signal, and thus the rectifying or "one-way" action is obtained from the positive impulses. In other words, a positive signal impulse on the grid at the lower bend in the curve increases the plate current more than an equal negative displacement decreases it.

The net result is an increase in plate current and, as shown at the right of the diagram, the wave form is made much greater on one side than on the other, whereby rectifying action is obtained.

The rectifying action is very similar to that of a crystal, but there is the relay or amplifying action in addition.

Changes in plate current caused by signal voltage on the grid do not in themselves give amplification; it is when these changes pass through a high resistance in the plate circuit that they are changed to voltages much higher than those impressed upon the grid of the valve.

The similarity is in the method of production of audio-frequency from the high-frequency signal impulses, differing greatly from the leak-condenser cumulative method.

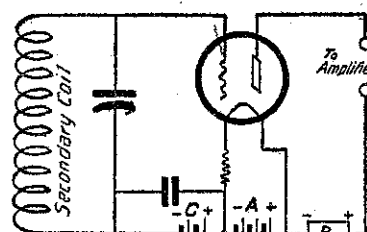
The anode rectifier produces the sound in the 'phones by an increase in the plate current, whilst the grid detector effects it by a decrease in the plate current.

Although positive and negative impulses arrive at the grid alternately, the grid need not necessarily ever be positive. When a negative impulse or cycle arrives the grid is negative to the extent of grid bias plus the voltage of the signal. When a positive cycle arrives, the potential of the grid is that of the bias minus the signal voltage.

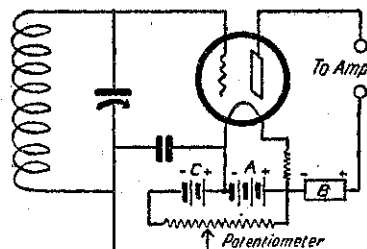
As the plate voltage is increased, the difference between the plate current corresponding to positive and negative signal alternations become greater, and provided that signal strength is good, this system of detection becomes more efficient when a high plate voltage is used.

Doubling the input to an anode rectifier results in an increased output of three or four times the volume, so that reduction of loss in the tuning system or improvements in the aerial have a large effect upon volume, though usually this aspect is not important for local reception.

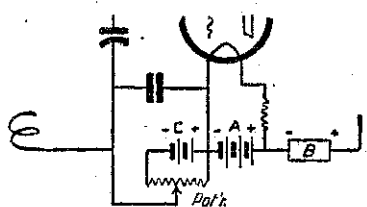
Increasing plate voltage has the effect of moving the whole curve, and with it the normal grid voltage position A to the left, and this allows a greater negative bias to be applied.



Bias Variable by Tappings



Potentiometer across A & C



Potentiometer across C Battery

In this diagram plate current is measured vertically and grid potential horizontally.

If we suppose that the grid voltage is fixed normally at A, then the corresponding plate current is shown at B. This is the plate current passing through the valve when the grid is at normal voltage. Now suppose that the alternating signal on the grid renders it one volt more negative, the position C will represent this value, and position D will represent a value one volt more positive. Note the corresponding plate currents for these two positions, F and G, and it will be seen that when the grid is positive much more plate current flows than when it is negative.

By applying to the grid an extra negative bias potential of suitable voltage it is possible to suppress the nega-

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Increase of plate voltage always requires a suitable increase of bias voltage, which should be carefully adjusted. By shifting the point A towards the left and applying higher bias voltage, the signal alternations may have a greater amplitude, which is equivalent to more volume without causing distortion. When the alter-

Constructor's Suggestions

IN changing to parallel feed on my four-valve BD, writes Mr. Wm. Seddon, I found I could increase the primary by at least five and still maintain stability. Also the increase gives a decided increase in amplification though tuning is flattened slightly. I also found that by inserting an earthed copper screen between the aerial coil, condenser, RF valve and the RF transformer that reception was very much clearer. No doubt this is brought about by stopping any coupling between aerial coil and RF transformer. This screening I find much better than totally enclosing the separate stages in screening boxes, as these produce a serious damping or loss of signal strength.

Do you think it possible to make use of screens only between the three stages in the 2RF, BD instead of copper boxes and do away with the losses incurred by enclosing each stage? Would it be possible to maintain stability by the suggested plan?

[Most unlikely, feed-back and interaction would cause instability.—Technical Editor.]

Now a word praising the really first-class service put across by the R.B.C. I think, and I am not alone in asserting that no sane person could find fault with such a system of entertainment. It is very entertaining reading some of the "growlers" remarks in "Radio Record." It makes one wonder just how much, or what, some people really do want for their license-fee.

Burnt-out Transformers

HERE is a tip that may be of value when the primary of a transformer burns out at an inconvenient moment.

Join a wire on to each of the primary terminals "B positive" and "P," and put these in a vessel containing weak salt solution. The transformer should then act more or less satisfactorily until it can be replaced.

Home-made "B" Battery

A CONSTRUCTOR has advised us of an improvement to the home-made B battery described by "Megohm." Instead of attempting to form his own plates, he has procured plates measuring $5\frac{1}{2} \times 5$ which have been already formed. These were cut into strips each half an inch, and suspended in the test tubes as was originally described. The positive of one has been connected to the negative of another by a pure-lead telephone wire covering. On the top of each test tube he has placed a thin covering of light oil.

Peridyne Coils

A SHORT time ago, a correspondent, H.H.E., asked for details of the Peridyne coils. We have received two letters in reply, and in this connection, H.H.E. is asked to communicate with A. G. Baine, Harbour View Road, St. Heliers, Auckland, who has a set of these coils he wishes to dispose of. He will give him full particulars if he prefers to make them for himself.

In this connection another correspondent, "141" (Auckland) states that he has made a set with copper cans, the coils of which are mounted on celluloid. He adds: "Unless one has plenty of patience, I would not advise them to attempt construction. I experienced

great trouble at first, but now results are great."

Peridyne coils have been fully described in the "Radio News" Amateur Handbook, Volume 5, pages 15 and 16.

Useful Tips

GRID choking is generally due to a faulty grid leak or to a faulty connection in the grid return circuit.

THE plates of an accumulator should not be exposed to the air.

BATTERY leads should always be regarded as potentially dangerous, and should therefore be of sound wire and of adequate size and strength.

RADIO DIRECTORY

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The Technician Explains

Design of Inductance Coils

By "CATHODE"

We commence this week a section which will be conducted by "Cathode" for the more advanced. While attacking radio from its fundamentals, the articles are yet simple and readily understandable. They are drawn up for the reader who wishes to secure a scientific knowledge of radio.

THE three questions which usually exercise the mind of one who essays to design a coil are as follows:

- (1) What inductance will be required?
- (2) How many turns on a former of given diameter will be necessary to provide this inductance?
- (3) What gauge of wire will produce the most efficient coil?

In addition, definite information regarding the high-frequency resistance of different coils will be useful, not only as a basis of comparison, but also at a later stage when the problem of designing a primary winding to complete an intervalle coupling transformer comes up for solution. It will be seen that all these matters, together with certain pertinent incidentals, are treated in some detail.

Firstly, what inductance is required? It is well known that a "coil" with its associated tuning condenser and incidental capacities is a resonant circuit; that is to say, it will respond more readily, or present a greater impedance (according as it is a series or parallel circuit) to an alternating or high-frequency current having a particular frequency to which it is said to be tuned.

The phenomenon of resonance is utilised in a radio receiver to differentiate between signals of the desired frequency (or wavelength) to which the system is "tuned" to resonance and therefore responsive, and the host of signals or other frequencies which have

but a small, in most cases a negligible, effect on the tuned system.

It will be clear that the frequency or wavelength to which the system will respond may be varied by alteration of either the inductance or the capacity of the system. The variometer which was popular for tuning some years ago and is still sometimes used in crystal sets is an example of a variable inductance; the modern tendency, however, is towards the use of a fixed inductance and a variable capacity or condenser, and the mechanical construction of this latter component has attained a high standard of precision.

The frequency or wavelength to which a combination of inductance and capacity is resonant may be calculated from the equation

$$W = 1884.96 \sqrt{LC}$$

where W is the wavelength in metres, L the inductance in microhenries, and C the capacity in microfarads. Normally, however, the designer is already

aware of the wavelength to which the system is desired to respond and of the approximate value of the capacity in circuit; the unknown quantity is the inductance. The equation must therefore be restated in the form

$$L = \frac{W^2}{3,553,225 \times C}$$

the symbols having the same significance as before.

The determination of the required inductance now presents little difficulty. Assume that it is desired to

down to 250 metres (it is unsafe to assume that the residual capacity will be less than about .00005 mfd., while it may easily be more) with the variable condenser "all out" the following is the result:

$$L = \frac{250^2}{3,553,225 \times .00005} = \frac{62500}{62500} = 352 \text{ microh.}$$

It is evident that a variable condenser of maximum capacity .00035 mfd. will cover the required range of wavelengths in combination with a fixed inductance having a value anywhere between 243 microhenries and 352 microhenries; a value of about 280 microhenries would be very suitable.

It is equally evident that if a variable condenser having too small a maximum capacity were chosen, it would be impossible to cover the required band.

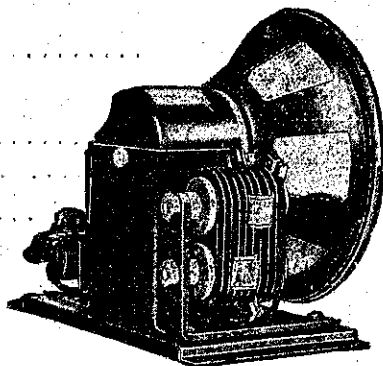
At first sight there might seem to be no temptation to use a condenser of small maximum capacity and the high inductance necessitated thereby. When

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Display of Thos. Ballinger at Wellington Radio Exhibition.

tune over the broadcast band (say, 250 metres to 550 metres) using a variable condenser of maximum capacity .00035 mfd. Then, solving for the minimum inductance which will, in combination with the maximum capacity of the condenser, tune to 550 metres, the following result is arrived at:

$$L = \frac{W^2}{3,553,225 \times C} = \frac{550^2}{3,553,225 \times .00035} = \frac{302500}{1243.62875} = 243 \text{ microh.}$$

Solving next for the maximum inductance which will permit tuning

it is remembered, however, that the maximum amplification obtainable from a high-frequency stage depends on the magnitude of the factor

$\frac{1}{R}$

OR

(where R is the effective series high-frequency resistance of the coil in ohms), it will be seen that, as regards amplification, there is every reason for increasing the inductance L (and reducing the capacity C correspondingly), provided the resistance is not unduly increased as a result.

Thus the real limit to increasing the ratio of inductance to capacity is imposed by the necessity of covering a given band, although some designers do not go as far in the direction of in-

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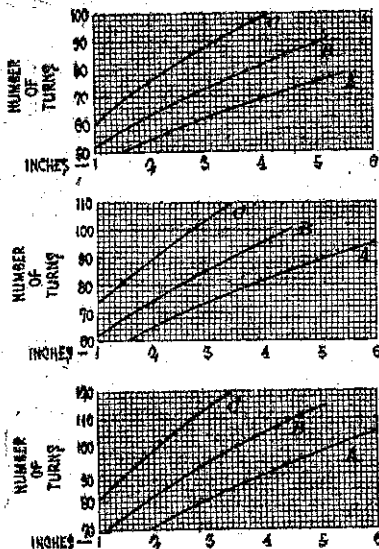
AUCKLAND.

creasing this ratio as they readily could, preferring, rather foolishly, in the writer's opinion, to secure the slightly enhanced selectivity to be gained from a preponderance of capacity.

However, it will be seen that in the charts provided for simplifying design, everyone has been catered for; the high-capacity enthusiast can use his beloved .0005 mfd. condenser with an inductance of 200 microhenries, at the other extreme, design data is provided for 340 m.h. coils for use with .00025 condensers, while a compromise may be effected with either a 280 m.h. coil and .00085 condenser, or a 320 m.h. coil and .0008 mfd. condenser.

How Many Turns?

HAVING answered the first of the three questions propounded as an introduction to this paper, it is now necessary to face the second—"How



many turns?" The inductance of a single layer solenoid (which is the only type of coil proposed to be dealt with) may be calculated from Nagaoka's formula, usually expressed in the form

$$L = \frac{9.87 \times L \times D^2 \times N^2 \times K}{1000} \text{ microhenries}$$

where L is the length of the winding in centimetres, D the diameter of the coil in centimetres, N the number of turns per centimetre, and K a constant depending on the ratio of diameter to winding length; this constant is obtained from a series of tables.

Mathematicians will appreciate that this formula lends itself to simplification, and it may, in fact, be expressed in the form

$$L = \frac{S N^2 D}{1000} \text{ microhenries}$$

where S is a shape factor depending on the ratio existing between the length of the winding (i.e., the length of the portion of the coil former covered by the winding), and its diameter; knowing this ratio, the shape factor S may be read off from Chart 1. For example, take a coil which covers 2 inches on an ebonite tube of 4 inches

diameter; the ratio length to diameter is then 0.5, and reference to the chart shows the value of S corresponding to this ratio to be 10.2. D is the diameter in centimetres, and N the total number of turns. Since our aim is to find the number of turns to arrive at a given inductance, this formula also requires restating. If it is put in the form

$$N = \sqrt{\frac{1000L}{SD}}$$

it will answer our requirements. It is recognised that not everyone is prepared to make even these humble

close-wound, the gauge of wire (and the covering) must be so chosen that the number of turns which can be accommodated in an inch is such that the total turns will approximately fill the allotted space. Thus, in the example quoted, a type of wire which would wind approximately 27 turns to the inch would be necessary, a wire table disclosing that 22 S.W.G. double cotton-covered fills this requirement.

The next article in this series will deal with the diameter or gauge of wire necessary to produce the most efficient coil of any given dimensions.

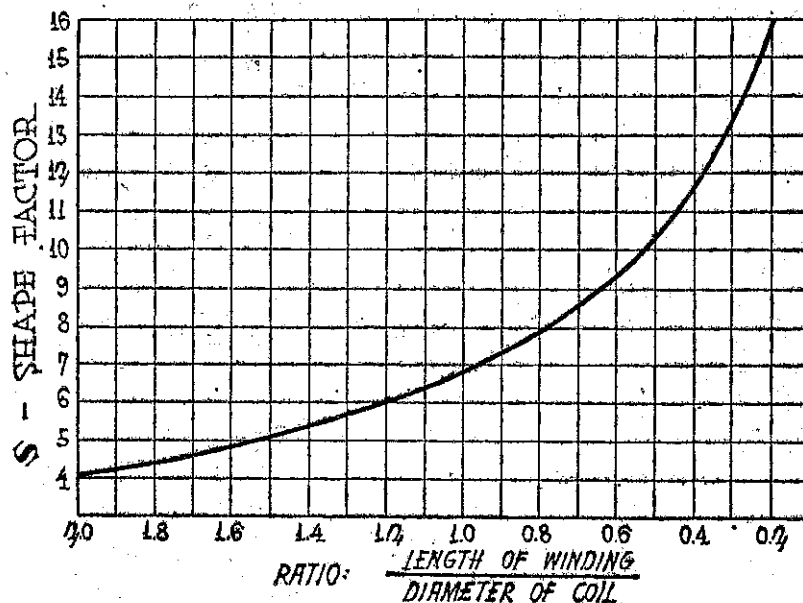


Chart 1.

Shape Factor.

excursions into the realm of mathematics. Consequently, while for the sake of completeness, the formulae have been quoted and explained, the data required for winding coils to the four inductances previously quoted as being suitable for covering the broadcast band with various values of variable condensers has been collated in the form of charts which are almost self-explanatory.

Thus, suppose it is desired to wind a 200 microhenry coil on a 3-inch diameter former, the winding to cover 2 inches of the length of the former, reference is made to the appropriate chart, which is in this case No. 2. Along the bottom line of the chart various winding lengths are marked off. A vertical line is drawn upwards from the point marked "2in." until the curve labelled "diameter 3 inches" is encountered. From the point of intersection between the vertical line and the curve, a horizontal line is drawn to the left until it reaches the vertical line marked "turns," which is appropriately subdivided into tens. The number of turns to reach the required inductance is then simply read off. In the instance in question, some 54 turns would be the requisite number.

The point to notice is that the number of turns required to reach a given inductance depends not only on the diameter of the coil, but on the winding length, also; the charts eliminate all calculation if only these two things are known.

As a final word, it may be well to point out that, if the coil is to be

Curious Incidences

AMONGST the many curious things that have happened whilst listening-in are one or two that are worth mentioning, says Mr. R. Leslie Jones (Wellington). On one occasion three New Zealand stations put the same tune on the air at the same time (not re-broadcast). It was just coincidence.

Recently a friend of mine played on his gramophone "Rosie O'Grady" for me; and a few minutes later I tuned in KDKA (Pittsburg), and the very same tune was broadcast from KDKA.

Another occasion I heard two Australian stations put on a violin solo, and tuned in 1YA (Auckland), and heard the same tune again. On still another occasion, I heard an organ solo from down South, and simultaneously up North an organist in a church was playing the same piece.

When listening-in to Japan one night in the earlier days of radio, I tuned between the "Jap" and 3LO, Melbourne, and heard from Melbourne the "Hallelujah Chorus," and heard the weird native music from the "Jap" station played on the "Samerson" instruments, at the same time; that was when both stations were on 371 metres.

On another occasion I was playing on my piano, and a second later 2FC broadcast the same air.

The world seems but a small area in extent since radio became established. Anyone in the habit of tuning in various stations, can tell from the announcers' voice what station it is; but can anyone pick up the Jap or Russian stations from the announcers' voice

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Topical Notes.

BY the last mail from Holland I received a QSL card from PCJ. Although this short-wave station has been in operation about two and a half years they have not issued a card till now. This is printed in three colours—red, blue, and black—and besides photos of their laboratory at Eindhoven, and the short-wave transmitter, contains the following particulars: PCJ is a crystal-controlled transmitter, broadcasting on a frequency of 9.59 x 10.6 cycles/sec (959 kilocycles wavelength, approximately 31.3m.). Maximum power, 27 kilowatts. Philips water-cooled transmitting and rectifying valves. PCJ commenced operations during March, 1927, with the epoch-making transmissions to the Dutch East Indies (12,000 km.). Since that time PCJ has been honoured with innumerable reports from all parts of the world.

Announcements in Dutch, English, French, German, and Spanish.

THE Universal Broadcasting system of Philadelphia has made an application to the Federal Radio Commission at Washington for short-wave channels for the reproduction of French and German programmes in America. WCAU, Philadelphia would be the key station for the overseas service.

Buenos Aires Calling!

THE following from "Amateur Wire-less" (England) will interest all short-wave listeners:—

"It was just luck which prompted me to tune in to Radio Paris at about 6.20 p.m. on Saturday, May 25, when, much to my surprise, I heard an announcement in Spanish. Without delay I made a rapid search, and discovered that the day was a national fete in the Argentine Republic, and that one of the principal Buenos Aires broadcasters—LR4—was transmitting a special concert for the benefit of the two American continents and Europe.

Now, when after listening to a gramophone record, I was told, in Spanish, English, French, and German, to stand by, I did so and was duly rewarded. At 6.35 p.m. Radio Splendid, Buenos Aires, the station in question, put over the Argentine National Anthem, and followed it up with short talks in all four languages, which put me wise to the route by which I was receiving the concert. Apparently, by previous arrangement, Radio Paris was taking it from the short-wave transmitter of the Ste. Assise (France), which in its turn picked it up from Monte Grande (Buenos Aires). Simultaneously, as I quickly discovered, Nauen (Germany) was capturing it from the same source, and passing it on to Berlin and Königswusterhausen, the latter, curiously enough, giving me a much clearer and purer relay than did the Paris station.

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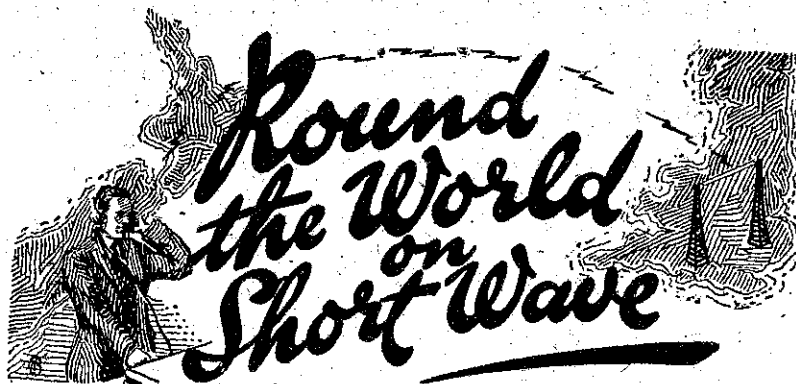
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Many will recall the trans-Atlantic relays effected by our own stations, and also the poor result achieved when we tried to reach out to the antipodes. In the Buenos Aires transmission, Monte Grande, in conjunction with Nauen and Ste. Assise, proved a perfect success. No fading was noticed, distortion was absent, and fortunately atmospheric conditions caused but little interference. This took place in full sunshine on a day when, to all appearances, reception should have been poor.

ANOTHER letter has been received from CJRX, Winnipeg, Canada, with the latest Broadcasting Schedule, for "Summer, 1929," of stations CJRM, Moose Jaw, and CJRW, Fleming. The programmes of CJRX, working on 25.6 metres' power, 2000 watts, are "tied in" with CJRW.

The Week's Log.

THE following is my log for the week. It is patchy, as I am still unable to listen quite as much as usual.

Saturday, August 10.

AT 1 p.m. PCJ was R8, but quality only fair. This improved rapidly, and was perfect by 3 p.m., at full speaker strength, when Central America, U.S.A. and Canada were being called. At 3.58 p.m. "Goodnight" was said to these countries, and "Hullo" to Australia and New Zealand. The New Zealanders called were Messrs. Abbot, Auckland; Gledhill and Stanton, Christchurch; Miss Bennett, and the writer, Wellington. All were thanked for their reports. W8XX were good strength, but not as clear as they might be. W2XAD at 2 p.m. were R8. A dance programme commenced at 2.30 p.m. from Reilly's Lake House, Lake Lonely, Saratoga Springs, Syracuse. This continued till 3.30 p.m. at R9. Duplex telephony was heard on 20.5 (about) at R7, and on 24.4 metres (about). A lady was talking at the first-mentioned station, and an American voice, very weak, at the other.

An Australian amateur was heard at 5 p.m., on the 40-metre band; fair strength, but readability poor. GBX, Rugby, England, R8, 75 per cent. readable, and VK2ME, R9, 100 per cent. readable, were testing during the evening. ZL amateurs, 2BE, Hastings, and 2AB, Otaki, were chatting together at R9.

Sunday, August 11.

AT 11 a.m., 2XAD was R4-5, with rapid fade. By 1.30 p.m. they were good strength, with the "Lucky Strike" programme, and—as they put it, "Tunes That Make Broadway, Broadway." A special "Byrd" transmission commenced at 2.30 p.m., with the usual messages and music for the Expedition.

2XAF, with the same programme, was weaker than the 19.5 metre station till about 2.30 p.m., after which W2XAF was the better station of the two, increasing to R9, while the other went off in volume.

W8XX (KDKA) was R2 at 11 a.m., and very unsteady. Strength increased, but signals were subject to rapid fade, nearly all through the transmission. On about 24 metres, talk could be heard at R3, but not quite readable. 2ME, with records and a 1000-cycle note, at R9, was

testing with GBX, who was reading. The Rugby station was 100 per cent. readable, but with difficulty on account of background noises.

Monday, August 12.

SYDNEY and Rugby were on duplex at 6.30 p.m., both sides of the conversation could be heard from 2ME. Sydney put on some records later, when fading was very bad.

Tuesday, August 13.

I WAS up early enough to hear 5SW for a few moments, when a violin solo was coming through at R8.

VK2ME and GBX were again on duplex telephony. At 10.10 p.m. 2ME was heard calling Ottawa. They replied on about 24.5 metres. Later Sydney were calling Montreal.

Wednesday, August 14.

5SW was tuned in at 6 a.m., when it was announced that "Desmond McCarthy would read one of his own books, 'The —'." The reading was R8, 75 per cent. to 100 per cent. intelligible. Some morse, QRM started about 6.12 a.m. (local), otherwise every word would have been readable. At 6.30 a.m. a programme was relayed from the Queen's Hall, the orchestra being under the baton of Sir Henry J. Wood.

Reception was very good. At 7.30 a.m. a break was made for the Greenwich time signal when they "went back" to the Queen's Hall. Strength was weaker by this time.

GBX at 6.5 a.m. was R8, 100 per cent. readable, and 2ME was R9. Both sides audible through Sydney. Reception between stations was perfect, as the conversation was carried on as easily as if the speakers were in the same room.

W6XX at 6.10 was R4, with a lady talking; a strong hiss spoilt readability. Strength at 8 a.m. was R5 with music. 41.6 metres about talk at R2-3, but not quite readable, was heard.

The "Spotlight Revue" from W6XX was heard from 6 p.m. till 6.30 p.m. at R8. The "Musical Muketeers" followed with a dance programme till 7.31 p.m. Volume went off toward the finish.

GBX at R8 and 2ME at R9 were both 100 per cent. readable with their duplex test. It was during this test that a lad in a Sydney hospital spoke to his mother in England. I did not hear it, but must have been listening to W6XX at the time.

Thursday, August 15.

5SW at 7 a.m. was R6-7. Talk was not readable on account of a bad ripple. GBX at the same time was much better, but not possible to understand all that was said.

At 6.4 p.m. 2ME was heard talking about yesterday's accomplishment, that is, the boy talking to his mother. This, it appeared, was arranged by newspapers.

KZRM commenced a programme at 9.30 p.m. by asking for reports on reception. Strength was R8-9. Dance music from the Manila Hotel was heard quite good. The dancers could be heard talking between items.

RFM was heard at 10.15 p.m. after a silence of some time. A lecture (?) was in progress; the speaker was well warmed up to his subject. Strength R9. Slight static.

Friday, August 16.

BIG Ben was heard through 5SW at 5.30 a.m. Talk and music was spoilt by ripple. PCJ commences at 5.35 a.m., R8-9, and remains steady at that till 7.30 a.m. It was heard calling a listener in South Africa during the transmission.

GBX at 6 a.m. was heard arranging a schedule with another station. 2ME could not be heard.

A strong carrier came on at about 6.30 a.m. just above PCJ with a quick ticking metronome. Music was heard later at R8. A few words were spoken between items, but could not make out any call, not even a "Allo" or "Achtung." W6XX was R2 at 7.45 a.m.

VK2ME and GBX were working again at 6.40 p.m., when a journalist in Sydney was speaking to another in England. He sent greetings to a number of newspaper men, and had quite a long chat. Speech from GBX was 100 per cent. readable—with careful listening. They closed at 8.25 p.m. till Monday, 1800 G.M.T.

KZRM was R4 at 7.30 p.m. with musical items. 23 metres (about) at 8 p.m., a foreigner was talking at R8 in a sing-song sort of voice, possibly Japanese. He repeated a few words quite a number of times. The carrier went off at 8.10 p.m. He was heard again later, but could not identify him.

2ME at 9.45 p.m., R4, and very rough, was calling Drummondville, Canada, and playing records while waiting for them to reply.

News of GBX

ON Wednesday night word came over the air from 2YA that some listeners had heard GBX Rugby, England. They seemed to think it was something out of the way. Well, I get GBX direct at loud-speaker strength, also 2XAD Schenectady, New York, also DOR Nauen; in fact, I wrote to them, as I did to PCJ Helversum, Holland, detailing their music and conversations. I have two short-wave sets, as well as the broad-wave set, but the one with which I am getting the best results is a four-valve set, screened grid valve. I can hear UX2ME twice per day. This afternoon he was calling Suva, then in the evening he was talking to GBX from Prince Albert Hospital, or rather a patient in the hospital was talking to her or his mother for a time. I was getting them at good loudspeaker strength, with part of volume shunted on to a pair of earphones in another room; in fact, I can get 2ME at any time that they are on the air.—H. H. Sunderland (Port Chalmers).

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Printed and published for the New Zealand Radio Publishing Company at the registered office, Wakefield Street, Wellington, of the Wellington Publishing Company, Ltd., by George Thompson, at 7 Rimu Road, Kelburn, Printer, and Roy Cecil Temple, of Te Kaitiaki, Khandallah, Publisher. WELLINGTON, FRIDAY, AUGUST 23, 1929.