

THE RADIO RECORD

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WELLINGTON, FRIDAY, AUGUST 9, 1929.

What a Radio Exhibition Means to the Community

Dunedin Exhibition Achieves Great Success

JUST what does a Radio Exhibition mean to the man in the street? It means something vastly more than the average exhibition of latest products arranged by any trade. It means that, studied carefully, every single person in the community, according to his means, is shown opportunities of expanding his life in the fullest sense. Radio is now, of course, a household word. Its uses and attractions are, in a broad sense, familiar to everyone. But an exhibition throws a new angle on the whole subject. It demonstrates beyond a shadow of doubt that the pleasures and advantages hitherto associated with wireless are but one iota of the immense field of education, utility and amusement afforded by the latest types of radio receivers and the improved standard of components.

TOO many people in the community associate radio with the earlier stages of its development. Mentally they harken back to 1923-24, when the science first burst upon us. They remember that, then, wireless had a vastly intriguing hobby interest—in other words, that, like a fascinating jig-saw puzzle, the building of a radio set presented endless hours of recreation from the hobby point of view. They remember, too, that the results so obtained from the then inferior broadcasting, plus the primitive apparatus, did not create from the air what might be genuinely called pure music. Many of these folk have still their old-time receivers. At an exhibition they have the opportunity of looking round at the latest sets and finding that their receivers, like their ideas on radio, should be scrapped, for the 1929

set is as different from its humble progenitor of 1924, as chalk is from cheese. Behind a radio exhibition is the radio genius of the world, the manufacturing skill, and the products of vast enterprises and lengthy experiments. The last word in radio is well-nigh spoken. The wireless set, particularly the electric one, is, to-day, apparently incapable of improvement. It is perfection. Listen to one of these modern receivers, and the beauty of tone, the efficiency of operation, the low initial cost of upkeep will astound you beyond words.

In a sense, the recent Radio Exhibitions could be called musical festivals, for never before in the history of New Zealand has there been displayed in such lavish diversity instruments that can create out of thin air the whole gamut of music.

Dunedin Does Well

DUNEDIN has good reasons to be proud of its achievements in regard to exhibitions, international and otherwise. The latest, the Radio Exhibition held last week, has to be added to the very successful record. Promoted by the Otago Radio Society, it had an auspicious opening and unqualified success attended it. The exhibition had been well organised and everything worked smoothly, while the support given by the public was all that could be desired. The exhibition aroused great enthusiasm everywhere.

THE Radio Exhibition was held in the Early Settlers' and Pioneers' Halls, and continued for three days. It was an epoch-marking event in the history of

radio in Dunedin, which is the home of broadcasting so far as New Zealand is concerned. There was a particularly comprehensive display of radio apparatus of all descriptions and the getting together of such a great show was a tribute to the energy and enterprise of the organisers. There was wholehearted co-operation between the radio dealers from all parts of New Zealand, listeners themselves, the executive officers of the Otago Radio Society and the Broadcasting Company.

A VERY interesting feature of each day's attractions was the broadcasting of items from the exhibition, where a model studio had been arranged. The radio dealers loyally supported the exhibition and the many stalls displayed the various makes and types of receiving sets and a wealth of radio equipment generally.

There was on view the first transmission and reception set ever made in Otago. This was the work of Mr. J. L. Passmore, in 1903. Compared with modern sets it is a weird and crude contraption. Another interesting feature of the exhibition was a short wave receiving set operated by members of the Dunedin Branch of the New Zealand Amateur Transmitters' Association.

THE official opening of the exhibition took place on Wednesday afternoon, the Mayor of Dunedin, Mr. R. S. Black, performing the ceremony. There was a very large attendance of the public. The Hon. J. B. Donald, Postmaster-General, and the Hon. W. B. Taverner, Minister of Railways, also took part in the event, their remarks being spoken in—Continued on page 2.

Dunedin Exhibition

(Continued from front page.)

their office in Wellington and relayed by telephone to the exhibition, where they were amplified through a loud-speaker. It was the first occasion that such a thing had been attempted and its great success reflected to the credit of the Post and Telegraph officers.

Not only evening concert sessions were broadcast from the model studio in full view of the visitors to the exhibition, but children's sessions, specially organised by Big Brother Bill, were performed also. Thus the public were introduced to all the 4YA officials and became conversant with many phases of the broadcasting service.

New Advertising Idea

"TALKING cows" have been proposed to the Chicago World's Fair board as a means of advertising the exposition to be held in 1933. A life-size papier-mache cow with its mouth opening and closing by means of a mechanical device and a radio set inside constitutes this new brand of cow. It would give a radio programme and invite people to attend the fair.

The Wizardry of Wireless

To What will it Develop?

RADIO, like stained glass, can be appreciated only from within. No one can possibly know what radio means until he possesses a set. Certain things you can prognosticate beforehand: you know that you are going to hear music, that people will talk to you, and that you will get the weather and the news. But this is only the dry bones of the matter. The subtle influence of radio, once you are one of the brotherhood of listeners—its wizardry—is a thing you could never have imagined.

Take music first. You imagined you had certain definite tastes in music. You just would not listen to jazz. Now you have to! Because if your wireless is a new toy you can't stop turning it on; and if it is an old toy, that cunning little devil inside you called boredom sometimes makes you listen, even to jazz, because you've nothing better to do. What happens? Before very long you find yourself exclaiming, grudgingly perhaps, "By George, that's a good tune!" But

radio-magic is equally potent to convert the lowbrow. I know a youth who now listens with intense delight to music which in pre-radio days he would just have dismissed contemptuously as "classical." And—which is the point of the thing—he has by no means fore-sworn jazz.

THE truth is that radio-magic bids fair to abolish those odious aesthetic class-distinctions altogether. There will soon be no such thing as highbrow or lowbrow. May it ring the death-knell of that bugbear of a phrase, "classical music," and of those other labels, "light music," and "sacred music"! If it is good, it is music. If it is bad, it is not music. And good music may range from a Bach cantata through the champagne-like waltzes of Strauss or Lehar to a love-song in the latest revue.

You naturally thought, before you invested in a radio set, that you would do a great deal of picking and choosing. Not a bit of it. There was a lady I heard of recently, a dear old Victorian lady. She is of the kind who in a literal sense enjoy bad health. She turned on her radio at bedtime one evening, hoping she might hear some soothing message suitable to the decline of day and the oncoming shades of night. Instead, she found herself plunged into the midst of—vaudeville! In a few minutes she was smiling, a little later giggling, and presently a peal of quite juvenile laughter brought her startled companion hurrying upstairs to her bedroom. The result of it all was that she slept that night as sound as a bell.

BUT the chief magic of radio is to give one that sense of kinship with one's fellows, which I am quite sure all listeners have experienced. The spinster living alone in a London flat or buried alive in some cottage in the heart of the country, is not the only "lonely listener." In a sense, we are all of us lonely listeners. We live in a little world of our own. Our horizons are really very limited. We know nothing of the man next door, of the people in the flat below, still less of our fellow-beings in distant towns and shires. And, knowing nothing of them, we tend to think nothing of or about them. We English are not a very companionable race. We prefer empty carriages on the railroad and scowl at others who come crowding in to the vacant seats. But in a railway carriage let one traveller make a joke, and the man who was deliberately taking up more than his room is found to be shuffling back into his fair space, there is laughter, and with laughter, courtesy and good humour.

In that extraordinary overcrowded journey of modern life it is the Wizard Radio who tells the story, cracks the joke, sings the song; and one evening of wireless makes the whole world kin. —By Wilfrid Rooke Lev. in "Radio Times."

Wireless on "Westralia"

Direction Finder Included

THE new Huddart Parker liner "Westralia," which is due to sail from the Clyde for Australia about the end of July, has been fitted with one of the most up-to-date wireless equipments of any vessel afloat.

The contract for the work was entrusted to Amalgamated Wireless, the owners having accepted the tender of the Australian organisation rather than that of oversea radio manufacturers nearer at hand.

The main transmitter is a complete 1 CW valve instrument with a power of 1½ kilowatts covering the wave band of 580 to 800 metres. The Westralia is the second vessel to be so equipped, the first being the new Adelaide Company's new motorship Manunda. Commercial receivers have also been provided capable of receiving stations anywhere on the wave bands between 25 and 26,000 metres. For the entertainment and information of passengers, a broadcast receiver is installed and in conjunction with this is a band repeater by means of which the radio programme can be amplified and broadcast anywhere on the ship as may be required. The band repeater will also be used to amplify and repeat the music of the ship's orchestra, concerts, etc.

Perhaps most important is the direction-finder similar to that installed in the Manunda. In this connection it is of interest to note that the shipping companies are anticipating the Commonwealth Government. Direction-finders are used in conjunction with coastal stations or wireless beacons, it being a simple matter to take bearings from two or more stations or beacons and so fix the position of the ship in any weather. In thick fog when lighthouses are no longer of assistance, the direction-finder does the job unherringly. Up to the present little has been done by the Government to establish the necessary radio beacons.

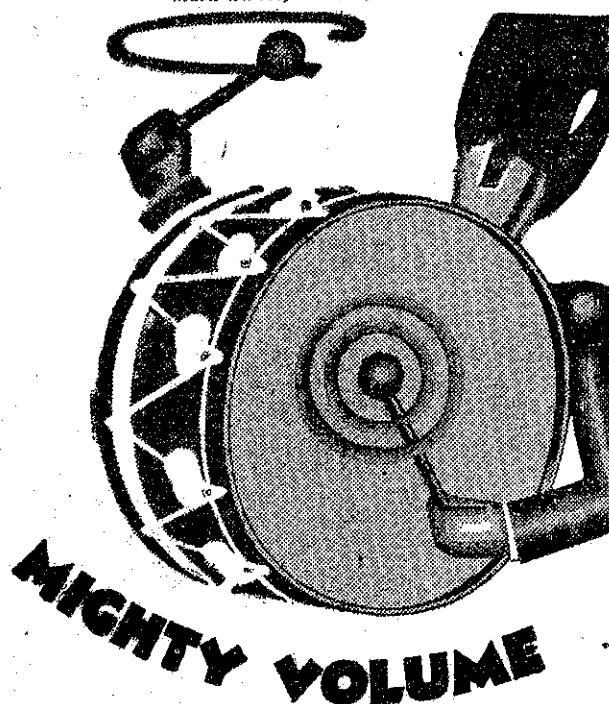
There are Amalgamated Wireless coast stations at many points, and the operators will, if on duty, always send out their call letters when asked to enable ships to take bearings. The trouble is the attendants are not always on duty.

The need felt by shipping (and insurance) companies is for inexpensive automatic beacons at various places—about 20 would cover the whole Australian coast—so that as soon as the weather thickens the light attendant could start the automatic signals for the protection of shipping. Radio beacons, in conjunction with direction-finding apparatus, would have saved the Kanona and the Riverina from becoming total wrecks near Wilson's Promontory and Gabo Island respectively.

About 470 British ships carry direction-finders, and no doubt the equipping of the Westralia and Manunda similarly will encourage the Federal Government to act in this direction.

V10

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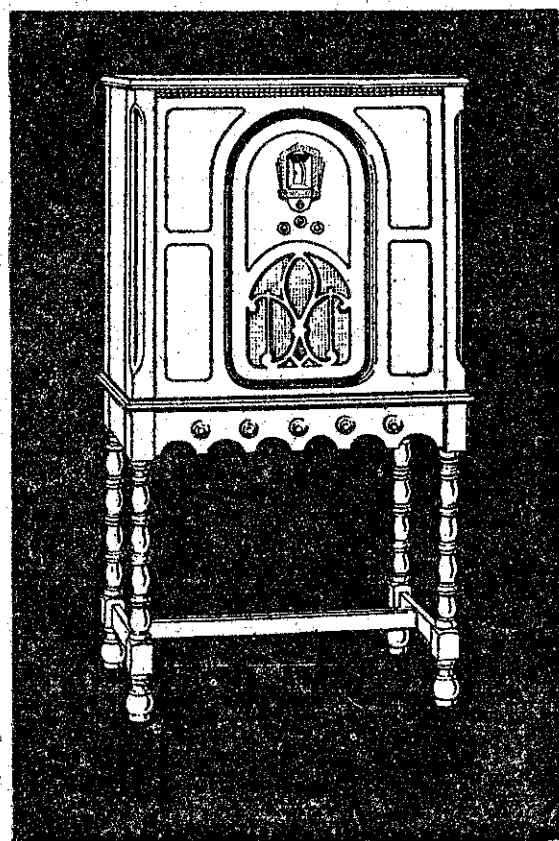
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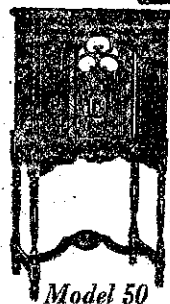


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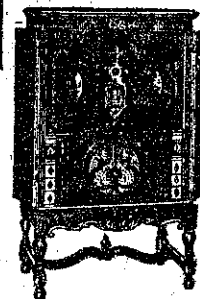
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PRICE:
Centres: £100

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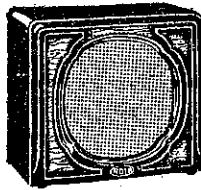
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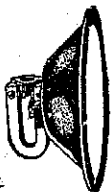


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ROLA UNITS



For those who already have cabinets and do not wish to discard them, and for those who own a console battery receiver, and desire to improve the reproduction, the Rola Electro-Magnetic Unit solves the problem. This is the same unit as used in Model 15. It has the Rola full floating diaphragm, magnetic-armature cone unit with low-pass filter, solid pole pieces, armature and tinsel connecting cord.

Model 17 Unit (as illustrated) **£4/5/-**

Bring your present Speaker right up-to-date by installing Rola Unit.

Ask your Radio Dealer to demonstrate this Unit.

Wellington Carillon

Broadcast in Britain

MUCH sound publicity for New Zealand has been secured by the broadcasting in Britain of Wellington's Carillon, first erected at Newcastle. From "New Zealand News," a bright weekly paper published in London for New Zealanders resident in and visiting Britain, we take the following:—

• Sir James Parr, in a broadcast address on June 17, said:

"As High Commissioner I am glad to say a few words to you about the Carillon of Bells which you are to hear in a minute or two. To-night the music is being relayed from the great Exhibition at Newcastle-upon-Tyne, to which the bells have been temporarily lent. The people of Wellington have decided to set up a memorial to the men and women who gave their lives in the Great War, and the memorial takes the unique shape of this Carillon of Bells, which (because we New Zealanders always prefer to buy our goods from the Motherland) has been manufactured in England.

"The Carillon is most interesting, inasmuch as each bell is inscribed with the name of some battle or campaign in which New Zealanders took part. For instance, in the inscriptions on the bells there are such names as the Somme, Jutland, Gallipoli, Messines, Ypres, Passchendaele, and so forth. If you could see them you would realise over what a wide field New Zealanders fought and in how many and diverse places of the world New Zealanders died for the Empire. The bells will be for all time a most eloquent Memorial to the supreme sacrifices made by Wellington's sons.

"You will forgive me, I think, on this occasion, if I refer to the fact that our country, with a little more than a million people, despatched 105,000 men to the fields of battle to fight for their native country, for Old England, their beloved Motherland. And of those who left our shores, 17,000 of the cream of New Zealand's youth lie buried along all the battle fronts and in the depths of the great oceans. But we are proud of the fact that we of New Zealand, your youngest and furthest Dominion, were privileged to stand side by side with you of the Old Country in that great struggle for justice and freedom."

A correspondent writes to "The Times":—"Before the carillon recital broadcast on Monday evening, the High Commissioner for New Zealand mentioned that the bells were to serve as New Zealand's War Memorial. In practical pursuance of their policy of supporting home industry they had come to the Old Country for this unique and expressive form of memorial to their own people who made the supreme sacrifice on behalf of the Empire. This is just another instance of the Dominion's quiet but sincere method of showing her feelings towards Great Britain, and it should awaken in us a similarly genuine desire to reciprocate. New Zealand does not herald her good work by a flare of trumpets. This does not mean that she has no need of our support. In common with all the Dominions and Colonies, New Zealand needs our whole-hearted and preferential consideration to help towards the prosperity she deserves."

Radio Pictures

To be Transmitted from
2FC and 3LO

THE engineering work in connection with the transmission of pictures from Broadcasting Stations 2FC and 3LO, Melbourne, is now proceeding, and, according to a statement made by Mr. E. T. Fisk, managing director of Amalgamated Wireless (Australasia) Ltd., transmission will commence as soon as business arrangements are completed.

A.W.A. has a limited quantity of radio picture receiving apparatus available for the use of experimenters. The demand which was set up in Britain for Fultograph receivers as soon as the British Broadcasting Company commenced transmitting pictures, should be repeated in Australia.

Any object that is capable of being photographed can be transmitted and received under the Fultograph system. Ordinary events of the day, sections of newspapers, typewritten documents, and business contracts can all be transmitted. Should the police desire to transmit a photograph or the fingerprints of a "wanted" person, it can be put on the air and transmitted throughout Australia within five or ten minutes.

No dark-room or developing apparatus is required at the receiving end. The photograph, as printed by the receiving apparatus, is a permanent photograph. The receiving apparatus takes the place of a loudspeaker. At the studio there is attached to the transmitting apparatus the developed negative of a photograph. A powerful beam of light is focussed upon the photographic plate, the amount of light being regulated by the varying density of the negative. A photo-electric cell controls the signals transmitted. These in turn direct the stylus pen that prints the photograph of the receiver. The synchronisation of the transmitter and receiver is arranged by a number of clutches on the receiver, which are operated by synchronising signals from the transmitter.

No price has yet been fixed for the receiving apparatus in Australia, but it is estimated to be less than £40.

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

—Shelley.

By
Bolton
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The Waltz Song Maker.

LUIGI ARDITI was for many years a distinguished and popular figure in England, and it would not be too much to say that the whole world of music held him in very high esteem. He began life as a violinist, and before he was twenty made his debut as a composer with an overture and an opera. He was only twenty-nine when he became an operatic conductor, and was soon making a name for himself in that line in the United States and Europe. After a short stay in Constantinople he visited London, where he was conductor at Her Majesty's Theatre. In spite of many visits to other countries, it was in England that he spent most of his busy life, conducting many of the British operatic ventures at Covent Garden and other London theatres.

Miss Louise de Rega will sing "Se Saran Rose" by Arditi, at 4YA, on Monday, August 12.

Admired by Millions.

OF the millions of people who have heard the immensely popular "Serenade" and "Souvenir" of Franz Drdla, few know even how to pronounce his name. He pronounces it Durdla (Durd pronounced with the "r" rolled). He was born in Moravia in 1868, and received his first musical instruction from his father. He studied for two years at the Prague Conservatory, and made such good progress that his father was persuaded to send his son to Vienna, where he entered the Imperial Conservatory, under the famous Joseph Helmsberger. On his graduation Drdla won the first prize for violin playing and for composition. He made many successful tours of Europe, and played in the Imperial Orchestra, and also in the orchestra of the Festspielhaus at Bayreuth.

A record of Drdla's "Vienna Waltz," played by the Edith Lorand Orchestra, will be used at 2YA on Thursday, August 15.

Barrister and Song Writer.

MR. FRED. E. WEATHERLY, K.C., barrister and song writer, was born at Portishead, on the shores of the Bristol Channel, and used to spend many hours looking across the grey waters to the mysterious hills of Wales. He says that when he began to write songs he found an inexhaustible inspiration in the mountains and valleys of the land to which he feels very much akin. His most interesting book of reminiscences, "Piano and Gown," contains many interesting stories. He says: Let the old man be forgiven for this little piece of vanity in saying with pride that some of his recent songs, "Roses of Picardy," "Up from Somerset," "Danny Boy," and "On With the Motley," are as well known as his old songs, "Nancy Lee," "Darby and Joan," and "The Holy City."

At 3YA on Monday, August 12, Miss Marion Drysdale will recite "A Lesson with the Fan," by Weatherly.

"Oh! Promise Me."

IT is interesting to know that "Oh! Promise Me," was composed while Reginald de Koven was a very young man, and was sold outright to a publisher for a very small sum. It was interpolated into "Robin Hood," and it is not, as is generally supposed, a part of the original score of that work. The beauty of the music of this light opera, and its appropriateness as a musical setting for the libretto, distinguish it, and contribute to its great celebrity and explain the favour with which it has been everywhere received.

Mr. W. Sneddon will play "Oh! Promise Me" as a cornet solo, accompanied by the Wellington Artillery Band, at 2YA on Thursday, August 15.

The Moon Lady.

THERE is probably no great work for the piano so universally known as Beethoven's so-called "Moonlight Sonata." There has been much controversy as to the origin of the title. It was certainly not given to the sonata by Beethoven. The story most favoured is that of the composer's love for one of his pupils, Giulietta Guicciardi. She seems to have returned his affection, but marriage with the poor music-master was out of the question. It is related that on one occasion he stopped outside a house on hearing his own music. Suddenly the door opened, and out into the moonlight came Giulietta and her friends. They surrounded the composer, and compelled him to enter and play for them. He did so, and it is supposed that the moonlight and the presence of his beloved Giulietta inspired him to play what has come to be known as the "Moonlight Sonata." Whether the story is true or not will

never be known, but music always seems more interesting if one can lift aside the curtain a little, and see behind, to the human side.

Mrs. Ernest Drake will play the "Moonlight Sonata" at 4YA on Monday, August 12.

Heroic Music.

ALTHOUGH Beethoven's overture, "Coriolanus," was not composed as a prelude to the Shakespeare play, having been composed for one on the same subject by the German dramatist, Von Collin, it may quite well be taken as illustrating the story which Shakespeare sets forth. The first theme might very well stand for Coriolanus himself, stern and unrelenting, while the second may be his wife and mother, to whose entreaties he yielded. A third theme, no less expressive, is dealt with at some length, and the overture rises more than once to climaxes. At the end, fragments of the Coriolanus theme are heard on the violins, as though the hero's courage were failing, as though he were bidding his mother, Volumnia, farewell, as in Shakespeare's play.

The orchestra will play the "Coriolanus" Overture at 3YA on Wednesday, August 14.

The Bird Woman.

THE legend of "Sadko," from which "A Song of India" is taken, tells of a fantastic creature, half bird and half woman, who sat on a cliff of jewels, and sang her siren song. He who listened sank into oblivion. It is another version of the familiar story of "The Lorelei." The opening phrases are the setting of the lines:—

"Unnumbered diamonds lie within the caverns,
Unnumbered pearls within tropic waters,
Of distant India, wondrous fair!"
Then comes the story of the siren and her exquisite song, followed by a repetition of the opening phrase.

Mrs. W. Fraser Morrish will sing the "Song of India" at 2YA on Friday, August 16.

Old Irish Reels.

"MOLLY ON THE SHORE" is the name of an old Irish reel, and the composer has made his piece out

of that and another reel, "Temple Hill." Percy Grainger was born in Melbourne in 1883, and during the war took on American nationality. One of his friendships is commemorated in the British Folk Music Settings, of which his piece is one; they are "lovingly and reverently dedicated to the memory of Edward Grieg." This particular piece is also inscribed, "Birthday Gift to Mother, 1907." Last year the composer was married in the presence of an enormous audience in the famous Hollywood Bowl, immediately after he had conducted special music composed for the occasion.

A record of "Molly on the Shore," played by the composer himself, will be used at 1YA on Sunday, August 18.

The Gorgeous Orient.

"AIDA" was written by Verdi at the request of the Khedive of Egypt, for the opening of his new opera house in Cairo. But unfortunately, the Franco-Prussian War prevented the opera being ready in time, as all the scenery was in the beleaguered city of Paris. However, it was produced there on Christmas Eve, 1871. The brilliant scene of the second act of "Aida," in which Radames, the victorious hero, returns and is received with the greatest pomp and magnificence, is one of those scenes which, the great stage crowded with splendour, produces a thrilling effect. Verdi has in this triumphal march, written pompous and stirring music befitting the scene.

A PARLOPHONE record of this scene performed by the chorus and orchestra of the Berlin State Opera House, will be used at 1YA on Friday, August 16, and the Broadcasting Trio at 4YA will play selections from "Aida" on Monday, August 12.

Have you procured your copy of

"N.Z. Radio Listener's Guide"?

Dealers and booksellers 2/6; Post Free 2/9—P.O. Box 1082, Wellington.

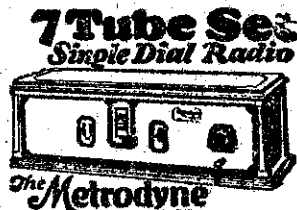
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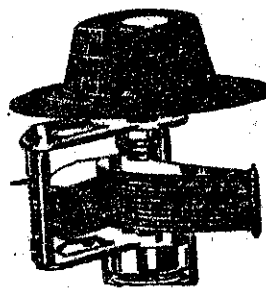
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N.Z. RADIO PUBLISHING CO., LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, AUGUST 9, 1929.

INITIATIVE IN BROADCASTING.

IN last week's issue we published an interesting article from "Popular Wireless," dealing with the apparently excessive number of resignations of prominent officials from the B.B.C. In outlining the circumstances, the British journal reaches the conclusion "that the root of the trouble lies with the governors of the organisation. Their appointments were always criticised, and their capabilities for the office even more criticised, and we sincerely hope that something will shortly be done radically to change the situation with regard to the governorship of the B.B.C." This comment is interesting in so far as it provokes thought as to the best means of organising and governing a radio broadcasting service. The history of the British Broadcasting Corporation is that the undertaking was originally instituted in 1922 by the formation of the British Broadcasting Company, the moving spirits being business organisations interested in the manufacture and sale of radio equipment. London station was first opened on November 14, 1922, Birmingham and Manchester on the next day, and Newcastle ten days later. Other stations were developed at Cardiff, Aberdeen, Bournemouth, and Sheffield in 1923, and again throughout 1924 a progressive expansion was continued. The result of the energetic development undertaken by the British Broadcasting Company was that, in April of 1926, 2,000,000 licenses were in force, and the service was established on an outstandingly progressive and satisfactory basis. Throughout this period a governing oversight and general administration, particularly in regard to the matter broadcast, was exercised by the British Post Office. In the latter months of 1926, however, it became apparent that the political atmosphere favoured the creation of a Government Department. Consequently on January 1, 1927, the British Broadcasting Corporation was instituted under Royal Charter, and a number of governors—men of prominence in various educational, musical, and financial fields—were appointed. Sir John Reith was entrusted with the post of governing director.

THE resignations now effected would seem to indicate quite definitely that the policy instituted by the Corporation has failed in some aspects in its administration. The charge is made by "Popular Wireless" that the governors have not been content to merely lay down broad lines of policy, but would seem to have intruded themselves into the detail organisation of the actual programmes, rather than leaving that highly technical and important department to the care of those who have specialised in the field of catering for the public taste. If this charge is correct, it represents a grave disadvantage. There is nothing so delicate or so exacting as the interpretation of the public taste. Broadcasting as a means of entertainment necessarily competes with the theatre, the picture, and other avenues of amusement. It, therefore, must take from the technique of those businesses something of the same subtlety of interpretation. While taking something, it has had to develop additional capacity for

sensing the requirements of the public. This is highly artistic and exacting work. Those responsible necessarily must possess the artistic temperament, which is the least amenable to bureaucratic control or interference.

TO achieve success in any line of entertainment requires an immediate sympathetic response to an interpretation of the public needs. That intuitive appreciation must be backed by the capacity to take immediate action. If the initial conception is checked by the clogging wheels of bureaucracy, then the first fire of enthusiasm is lost, and what might have been a brilliant conception is flattened and killed. There would seem, therefore, to be the special need in connection with broadcasting, to ever preserve initiative and enterprise. Commercial and artistic history shows that that initiative and enterprise are best displayed by individuals, and immediately suffer eclipse under any suspicion of bureaucracy. It is in that sense that this development in connection with the B.B.C. is most interesting and illuminating to New Zealand listeners. We are concerned to see that our own broadcasting system develops on the best lines possible—on lines that will permit of the display of enterprise and initiative, so that the public taste can be catered for with a minimum of limiting restrictions. Our New Zealand system seems to be a fairly happy blend of the two systems. It preserves the enterprise, initiative, and immediacy of action and economy of administration that obtain with private enterprise; those virtues are supplemented by a governmental supervision concerned to safeguard the interests of listeners, and requiring a high standard of performance in all fields for the benefit of the public.

EDITORIAL NOTES.

THE success that attended the Dunedin Exhibition, following closely on the remarkable success of the Wellington Exhibition, shows clearly that there is a definite desire on the part of the public for more intimate contact with radio. The opportunity of seeing, concentrated at one spot, the latest and most advanced complete sets utilising A.C. equipment, the most complete and compact battery-operated sets, and the subsidiary gear that contributes so much to the modernising of old sets, appeals strongly to the listening public. The simplification of processes that is going on is appreciated by the radio public, and in itself is unquestionably extending the appeal of radio. Those who are interested in the constructional side of radio are limited. They may be those who get the most intense interest and pleasure from radio in the field of constructional capacity, but it is the larger and broader section who listen merely for the pleasure or entertainment derived from the programme itself that constitutes the strength of radio. It is this section that has made and is making radio exhibitions so popular and successful.

HEARTY congratulations are extended to the promoters of the Exhibition in Dunedin. Their organisation has been good, and the public has responded in admirable spirit to the fare offered. A particular feature of the Dunedin Exhibition was the section devoted to the children. This was a happy thought, and undoubtedly constituted a special feature of the show. The occasion, too, was made memorable by the skilful exploitation of land-line telephonic communication from Wellington to Dunedin. A definite feat stands to the credit of the Department in making it possible for the Postmaster-General, the Hon. J. B. Donald, to sit in his office in Parliamentary Buildings, Wellington, and speak direct to the Exhibition in Dunedin, for his voice there to be passed through loudspeakers and heard by the assembled audience, and thence rebroadcast by Station 4YA. This constituted a record in this field, and is a striking indication of the clarity and perfection of telephonic communication now available to the public. The Dunedin Exhibition is, it is thought, likely to be followed by an exhibition in Christchurch, and we hear that there is a possibility for a similar venture in Auckland. Properly organised, there is no reason why each and all of these ventures should not be successful. The public interest is available for development, and the successful organisations already perfected show that the public is prepared to heartily support exhibitions of this nature.

Rural Interests

Service for Producers

3YA Primary Productions Committee

A MEETING of the committee was held in the studio of the Radio Broadcasting Company on Wednesday, July 31.

Those present were: Mr. O. W. B. Anderson (Horticultural Society), Mr. P. R. Climie (Canterbury Progress League), Mr. R. B. Robinson (Seiwyn Plantation Board), Mr. H. S. E. Turner (Chamber of Commerce), Dr. Chas. Chilton (organiser), Mr. C. S. Booth (administrative staff) and Mr. L. Slade (station director, 3YA).

Apologies were received from Messrs. C. McIntosh (Farmers' Union), J. G. Herdman (president A. and P. Association), R. McGillivray (Department of Agriculture, Christchurch), C. T. Aschman (Board of Governors, Canterbury College), M. E. Lyons (secretary A. and P. Association), John Deans (Lincoln College), and H. G. Denham (Department of Scientific and Industrial Research).

Mr. H. S. E. Turner was unanimously appointed chairman.

An executive committee was set up consisting of: Messrs. H. S. E. Turner (chairman), P. R. Climie (Progress League), J. G. Herdman and M. E. Lyons (representing the A. and P. Association), R. McGillivray (Field Superintendent, Department of Agriculture, Christchurch), R. E. Alexander (Director of Canterbury Agricultural College, Lincoln, or other representative of the college), and Dr. C. Chilton.

The sub-committee appointed at the recent conference to report upon the programme submitted their report. It stated that the arrangements for the programme were well advanced, the Canterbury Agricultural College having promised to give one lecture per month on the second Thursday and the Fields Division of the Agricultural Department one on the last Thursday of each month, while other lectures have been promised by the Horticultural Society, the Poultry and Live-stock Divisions of the Department of Agriculture and State Forest Service. The committee also suggested that arrangements should be made for broadcasting summaries of the more important articles in the "Journal of Agriculture." The report was approved.

Letters were received from the Canterbury Agricultural College giving a list of the subjects for lectures up to June, 1930, and from Mr. McGillivray referring to a lecture on seed potato certification. These letters were referred to the executive committee.

Another letter asked for a lecture on mortality of sheep caused by parasites. This letter was referred to the executive committee with instructions to make arrangements for a lecture on this subject.

Mr. R. B. Robinson stated that he would gladly do what he could to assist the committee in connection with the instruction of farmers in forestry and promised to give a talk on the first Thursday in September.

Have You Renewed Your Subscription?

WITH the commencement of our third year of publication, the time for the renewal of the great bulk of subscriptions to the "Radio Record" has arrived. As previously announced, it is our practice to advise subscribers three weeks before the expiration of the subscription that the subscription is expiring and that renewal would be appreciated. This early advice is followed by a second advice in the week of expiry, so that those who have not responded to the first appeal may not miss the second opportunity.

WE do not desire that any readers who appreciate the paper should suffer any break in continuity. But for reasons of business efficiency and economy, it is not possible to continue sending the "Record" after expiration of the subscription itself. Where it is inconvenient for a reader to actually send the 10/- renewal rate, we are quite prepared to continue supplying the paper on request at our booked rate.

We are happy to say that renewals have been flowing in very, very heavily; and what is extremely gratifying, they are accompanied in a great number of cases by letters of appreciation, both of the Broadcasting Company's programmes and our own news service.

Readers who like to file their copies of the "Record" are reminded that filing covers are available at 1/6, post free.

Hastings Concert

Broadcast for August 22

THE concert which is being arranged by the Hawke's Bay Radio Society, and which will be relayed from Hastings to Wellington, will also be broadcast by 8YA and 4YA. This will necessitate the use of over 400 miles of telephone line—between Hastings and Wellington and between Christchurch and Dunedin. The Post and Telegraph Department has made these lines available from 8 till 10.30. The Hastings programme, which will be published next week, is a very long one of the highest quality.

Mr. O. W. B. Anderson stated that the Horticultural Society had arranged a series of lectures for their members on general questions of horticulture, and would be glad to broadcast these talks.

The chairman stated that the Agricultural Bulletins prepared by the Chamber of Commerce in connection with the Agricultural College, Lincoln, and the Economics Department of Canterbury College, were being widely distributed, and that the committee were welcome to broadcast abstracts of the more important points in them.

It was reported that the Radio Broadcasting Company had received from their consultants in America, a large amount of information about the method of broadcasting agricultural information in the United States, with samples of some of the lectures. These talks dealt with a large number of subjects, including domestic matters and scientific questions affecting the farmer, as well as the ordinary operations on the farm, and would serve as a good example of the kind of thing that might be attempted in New Zealand. These were referred to the Executive Committee to consider and report upon at the next general meeting.

It was agreed that the Executive Committee complete the preparation of the programme for the coming season as far as possible and call a meeting of the general committee at some convenient date within a period of two months.

Total Listeners

Nearly 44,000

THE Secretary of the Post Office writes: The following is a summary showing the total number of radio licenses issued as at June 30, 1929:—

	Receiv- ing.	Transmtg, Receiv- ing.	Dealers'
Auckland	14,039	138	226
Canterbury	7,726	76	169
Otago	3,311	50	118
Wellington	17,190	91	378
	42,266	355	891
Grand total	43,512		

Reception Tricks

Locality Peculiarities

SOME interesting comments concerning vagaries of reception are made by a correspondent in North Auckland:—

"I am inclined to think much could be learned about reception and its many tricks by a systematic locality survey. In support of this theory I refer you to the report re Kaitia listener who cannot now pick up 2YB though he could hear the transmission well when the plant was at 2YA, also to the fact of my inability to log in any stations other than New Zealand and Australian, although my set is admittedly capable of such. My nearest neighbour can get U.S.A. on a home-constructed set, made up out of an out-of-date set bought at bargain price, and looking like a barbed wire entanglement using 3 valves. Again, I have entertained prospective listeners who have, without exception, admitted that my set is the best that they have listened to. My conclusion is that probably some minor alterations to a set would make a wonderful difference in counteracting local peculiarities."

"Eating Crow"

2YA Heard in Texas

AWAY down in Texas (U.S.A.) there is a progressive little "city" of about 5000 population called Dalhart. A resident of this is Mr. A. C. Johnson, Box 344. On March 29 last Mr. Johnson was made a proud and happy man by receiving direct 2YA. His pride, however, was tempered by the fact that his claim to have heard New Zealand qualified him, in the opinion of his friends to whom recounted the incident, for membership in the "Ananias Club." Accordingly he wrote the New Zealand Broadcasting Company asking for confirmation of the programme that he heard. On May 7 last the company wrote Mr. Johnson certifying to the items that he heard having been transmitted from 2YA. Now, in the words of Mr. Johnson, he is making all his friends "eat crow" for having doubted his earlier claim.

In a letter just received by the company, Mr. Johnson acknowledges receipt of the "Radio Record" issue of May 3, and states that he has read it from cover to cover with deep interest. "I am glad to note," he says, "that radio broadcasting in New Zealand is developing on a broad, well-conceived plan, and I am sure you will never have the tribulations we listeners have to endure over here in the States because of the excessive number of stations."

Mr. Johnson is also a short-wave enthusiast, and in writing forwards a copy of a letter which he sent on June 14 to Station 2ME, Sydney, reporting reception of that station taking a telephonic test with Java and Suva. Mr. Johnson sets out in detail the conversation between the different stations, and definitely establishes the fact that he did hear 2ME on the evening in question. Mr. Johnson mentions that he has also heard R.F.M. of Khabarovsk, Siberia, and 5SW, Chelmsford, but 2ME was the first Australian station he had heard.

SYDAL MEMORY TEST

"It is better to get three words fixed in the minds of ten thousand persons than to get ten thousand words fixed in the minds of three." More than ten thousand persons will read this advertisement. How many can remember the words, "Sydal Your Hands"?

AMATEUR RADIO SOCIETY OF WELLINGTON.

The next MONTHLY MEETING of the above Society will be held in CONGREGATIONAL CHURCH HALL.

Cambridge Terrace, TUESDAY, AUGUST 13, at 8 p.m.

MR. COLIN W. SMITH, B.A., Technical Editor "Radio Record,"

Will deliver an Address on "THE GROWTH OF RADIO."

All listeners in

GERALD H. LAWS,
Hon. Sec.

Broadcasting and the Peace of Nations

IN this article Vernon Bartlett, writing to the "Radio Times," throws a new light on the value of broadcasting. His views are those of one who has had experience of war and national animosity, and for that reason are worth careful consideration.

IN my opinion, it could stop it. The reasons for this belief are simple and straightforward. You can understand a war breaking out in a moment

of international bad temper, but it cannot continue without deliberate efforts to keep the war feeling alive by letting your own people know one set of facts and your enemy another.

You depend upon ignorance, because ignorance breeds fear of the unknown, and fear is the mainstay of war. De-

liberately you exaggerate your own gentler characteristics, and the inhumanity of your enemy.

Eavesdropping on the Enemy.

BUT, as I see it, broadcasting would change all this. The suppression of the other man's point of view would surely become impossible. Those of us who, during the last war, had the opportunity of reading neutral or enemy newspapers, will remember how frequently versions of the same incident varied, and how subtle the explanations of a setback could be when the blunt and unpalatable truth could be suppressed.

This art of deception was carried to extraordinary lengths. In a certain hotel in Berne which housed British and German diplomatic missions, it used to be quite the thing for the British or the Germans, as the case might be, at critical moments of the war, to drink champagne and to put up a great show of rejoicing, in the hope of persuading their enemies at the other end of the restaurant that all was going well, and according to plan.

BUT if every possessor of a valve set could listen day by day to the enemy's version of the progress of the war, censorship would become futile, and I do not believe that any war could last.

Some little sentimental song broadcast from a music hall in the enemy's capital would so easily undo efforts of weeks to prove that one's opponents must be brought to their knees because they and their wives and children had no decent human feelings, but were

bloodthirsty brutes who were dangerous to mankind. And it would be more difficult to abolish all valve sets in another war than it would have been to suppress every newspaper in the last war.

And now, what can broadcasting do for world peace? I think this is a question that needs to be answered in two different ways, just as the work of the League of Nations is divided into two categories. There is the general development of international co-operation, which, by helping countries to understand each other, quite definitely makes war less probable; and there is the perfecting of the machinery which the League Council can use to prevent a sudden quarrel from developing into a war.

THE best example of this machinery at work is the Greco-Bulgarian dispute of October, 1925, when rumour so much exaggerated a chance quarrel between a Greek and a Bulgarian sentry on the mountain frontier between the two countries that the report which reached Athens asserted the Bulgarians were attacking in force, and the Greek army promptly marched its troops several miles into Bulgaria.

The Bulgarian appeal for aid was received by the League of Nations on October 23, and a special meeting of the Council was summoned immediately. Such decisive action was taken that by October 29 all troops had been withdrawn behind their own frontiers and Greece paid a handsome indemnity to Bulgaria for the damage done by her soldiers.

A Radio Station for the League?

ALREADY broadcasting has so developed that, were a similar incident to arise to-morrow, people would be much less likely to believe (Concluded on page 10.)

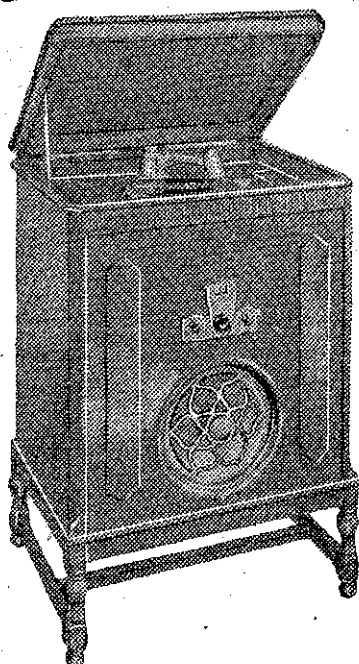
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Cheap Spring Rail Trips for ALL

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Tickets are available for return until 28th September.

GO BY RAIL—THE SAFE, SURE WAY.



ANNOUNCING THE LATEST "COURIER" RADIO

Model E.S. Electric Screened Grid

NO AERIAL -

Good though they have been, all previous "Courier" Models are surpassed by the new Electric Screened Grid Model, E.S.

To begin with, this new "Courier" requires no batteries and no aerial. You just plug into a light socket or heating point, connect the earth wire, and tune in.

Silent, Safe and Economical: And as for silence! The "smoothing" circuit that supplies the electricity to the valves at correct power is made of the very best materials, and especially designed to ensure absolute safety and silence. And the electric screened grid, special detector, and pentode valve employed in the radio circuit give a splendid performance at the lowest possible cost.

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Gramophone Amplification: Like some of the other models the new "Courier" has a special amplification socket. Connect a gramophone pick-up with it, and you will get the music from your own gramophone glorified beyond belief. By plugging a pair of head-phones into the same socket you can amplify your own voice through the loudspeakers, too.

Range: With this new Electric "Courier" you'll get a fine loudspeaker reception of all Australian and New Zealand Stations. You'll be delighted by its clear, pure tone. Send the coupon for leaflet, and consider this outstanding instrument. **PRICE £31 with valves.**

DEALERS

Supplies of this new "Courier" Set are now available. It will be a ready seller. Enquiries invited from established dealers.



"COURIER" ELECTRIC

"BRINGS NEWS FROM AFAR"

Manufactured in New Zealand by—

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POST THIS COUPON TO-DAY

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Albert Street, Auckland.

Please send me your Free Leaflet on "Courier" Radios.

Name

Address

World Peace

(Continued from page 8.)

alarmist rumours of invasion than they were in 1925, and an official summary of the situation sent out by the League of Nations and broadcast from different national stations would do a lot to allay general uneasiness such as the Greco-Bulgarian dispute caused in neighbouring countries.

There is some talk of constructing for the League of Nations not only an ordinary wireless station to ensure rapid communication with all governments, but also a broadcasting station which would be used in cases such as this.

But even should this scheme never be fulfilled, I am convinced that broadcasting will be one of the most valuable factors in preserving the peace if and when Europe is again faced by a crisis such as that which followed the murder of an Austrian Archduke at Sarajevo a little over fourteen years ago.

BUT, of course, the greatest value of broadcasting—and probably the greatest value of the League of Nations—lies in steady work of international education.

A year or two ago a surgeon had been having a dig at me and I went to stay in the Alps to recover. The place was very quiet, for it was at that period when all the hotels are shuttered up and the local shopkeeper has gone away on his holiday. But

there was a good wireless set. And for hour after hour I switched myself round Europe until I knew the voice of the announcer in Vienna, or Barcelona, or Stuttgart as well as I knew that of my host.

I still had my enemies, but it was their bad singing, or, still worse, the great slabs of advertisements they inserted between each musical item—and not their nationality—which made me dislike them.

We may not all be able to see exactly where Brunn, Huizen and Lahti are—I should hate to have to draw a map of Finland, let alone to put Lahti on it—but our wireless programmes show us such places exist; we learn, with the help of the wavelength, to distinguish between one odd idiom and another, and we can polish up any languages we know, or like to think we know.

Understanding Other Nations.

THIS, of course, applies only to the owners of the more expensive sets, but the international programme is still in its infancy. I look forward to the time when the B.B.C. and my simple crystal set will make it difficult for me to believe that I am sitting at home in London, and am not in some foreign country. There will be a few typical jokes, a representative comedian, folk music, the noises of the streets, the flute or song of the shepherd, and a short talk that will give me less an idea of the country's art and archaeology than of its "atmosphere."

This is an impossible subject to write about, because you cannot set limits to the influence of broadcasting. Clearly, if we could travel, and travel enough to get over that first feeling of strangeness we experience when we go abroad, there would be no more wars, because it would no longer be possible to look upon "foreigners" as beings very unlike ourselves, and civil war is out of date. But we cannot all travel, and the next best thing

Symphony Orchestra

Second Recital from 2YA

THOSE who listened-in on Thursday night were treated to a musical feast when the Wellington Symphony Orchestra, under the baton of Mr. Leon de Mauny, gave its second recital.

The first half of the programme was devoted to the works of Beethoven, and the opening number was the overture, "Men of Prometheus." Although this work of Beethoven's is not considered to rank very highly, it was, nevertheless a financial success, and enabled its composer to live in comfort for some time. The work was played with charming fluency, the duets between strings and wood-wind being a feature of the performance. The whid was, perhaps, a little too strong for the strings, and at times completely drowned the latter. However, the feeling of vigour and exhilaration which the master desires to convey was well expressed by the orchestra.

The second number was one of the most enjoyable of the evening. This was the "Romance in F" for violin and orchestra. The solo role was played by Mr. de Mauny, while a light accompaniment was conducted by Signor A. P. Truda. The tone of the violinist was mellow and rich, and expressed that delicacy and refinement that characterises this work of Beethoven's.

The "magnum opus" of the evening

is to hear the life of other countries. A foreign newspaper must always look a little strange and unusual, but a programme broadcast from Berlin is not necessarily very different from one broadcast from Paris or London. Nothing in our complex civilization can do so much as the microphone to abolish that ignorance which makes for international distrust.

was the "Symphony Eroica." This work, dedicated to Napoleon, is considered to be one of Beethoven's greatest and most difficult works. The first movement, with its intricate melody, was played with sympathy, and the dialogue between string and wind left little to be desired. The second movement, the funeral march, is typically Beethoven, and contains a deep note of mourning played by the lower-pitched wood-wind, while string and flutes combine in conveying the feeling of tears and sorrow.

The third movement is in charming contrast with the previous movement. Sorrow is forgotten, all is happiness—a movement bubbling over with "jois de vivre," reminiscent of Mendelssohn in his happier moments. But toward the end of this movement there is heard again that note of sadness.

The finale was played with decision and firmness, and ended an excellent performance of a difficult work, with a final burst of triumphant music.

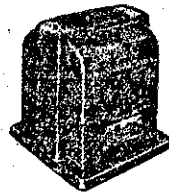
The second half of the programme was devoted to the lighter masters. A fantasia from "Tosca" was played with that light and shade which all of Puccini's work demands.

The last number was easily the best-handled of the evening's works. The "Homage March" from "Sigurd Jorsalfar" is considered by some to be one of the finest and most stirring marches in existence. There is triumph in every note, and the great crescendo in the last movement sounded like the deep notes of the organ, in front of which the orchestra was seated. So fine did the audience deem this number that the applause did not cease until the conductor assented to repeat the last movement. This repetition brought a most enjoyable concert to a close, and one in which every individual member of the orchestra is to be congratulated for contributing to one of the most successful symphony concerts in Wellington's musical history.

C. R. RUSSELL M.Sc.,
M.I.R.E., A.M.I.E.E. (Lon.)
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"HERALD" BUILDINGS :: AUCKLAND.

DISGRUNTLED listeners are prone to blame the broadcasting stations for fading even at a relatively close range. The United States Government Bureau of Standards has just issued a new report on the causes of fading, after extensive research. The results show that even nearby stations fade through no fault of the stations themselves. The report states: "In the case of nearby stations much fading is caused by interference between ground and reflected rays." Fading is the most difficult problem which confronts radio scientists, and listeners should realise this before rushing in to condemn this or the other station.

IF it were not for fading we would have regular Empire broadcasting from the British short-wave station 5SW, Chelmsford, England, ere this. The British Broadcasting Corporation's technicians have pointed out time and again that the broadcasting end of the system is well-nigh perfect, but it is at the receiving end where the difficulty lies. Those of us who have listened to long-distance short-wave broadcasting are familiar with the jerky or "gusty" nature of reception. This is nothing else but rapid cycles of fading and recovery, and to a true lover of music it mars its merit. Those listeners who complain about fading should recognise that the position is beyond human aid at present.

THE "Wireless Weekly" (Sydney) recently essayed to "draw" Mr. H. P. Brown, head of the Commonwealth Government Post and Telegraph Radio Department, on the subject of the future developments of broadcasting in Australia. What Mr. Brown said did not amount to much. In fact, he declined to commit himself in response to many pertinent questions. However, he admitted that two relay stations have been ordered. Mr. Brown said: "We don't know how many we may want; but there will be more orders placed shortly." One relay station is definitely fixed for a location. It will be erected at Newcastle and should be operating in from six to nine months. This station will be almost as powerful as 2FC, Sydney.

"SWITCH" made an interesting discovery the other evening when checking up on the two Japanese stations, JOHK, Sendai (767 kilocycles), and another, presumably JODK (868 kilocycles). The former is on a frequency a little higher than that of 2QG, Brisbane, and the latter's frequency is higher than 2BL's. By tuning quickly from one Jap station to the other it was found that they were simultaneously broadcasting the same items. Both stations made the loudspeaker yield the same volume as 2FC, Sydney, just after 11 p.m. While there is certainly a monotonous similarity in the average Jap items, sometimes the songs possess quite a different style altogether and are not untuneful to the Western ear.

BY general assent the recent relay by 2YA, Wellington, of the concert by Queen Alexandra's Own Band, at Wanganui, was the most successful yet accomplished by 2YA. The Broadcasting Company's technicians made a first-rate job of the relay, and praise is also due to the P. and T. Department's staff. So clear and free from parasitic noises was the relay that one could almost imagine that the concert

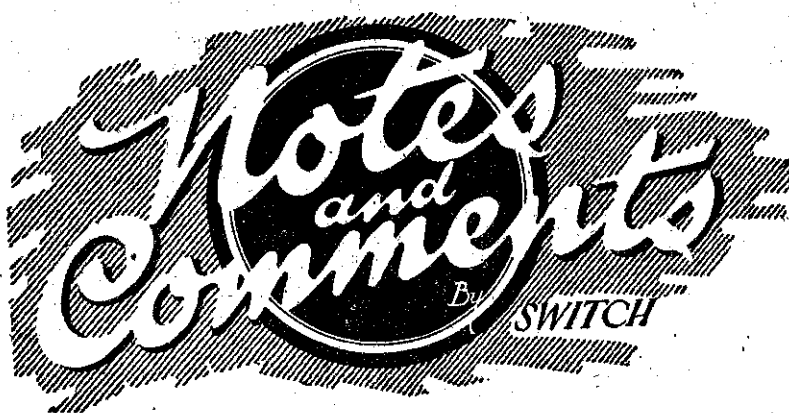
was at the 2YA studio. Mr. J. Ball, editor-announcer, was heard at his best, speaking from the Wanganui Opera House stage, his voice being loud and clear.

WELLINGTON listeners have lately heard a Californian station coming in for quite a while after 8 o'clock at night with distinct loudspeaker audibility on a wavelength approximating that of 2UE, Sydney (1020 kilocycles). When the Sydney station started up it blotted out the American. The writer heard the stranger's announcement clearly enough to establish the fact that it was one of the Californian "K" stations. Various statements have been made to "Switch" as to the identity of the visitor.

"SWITCH" recently received a letter from a listener who stated that he was quite satisfied that his home-made loudspeaker was superior in tone to the factory-made electro-dynamic loudspeakers. "Switch" was called into a friend's house recently to hear his loudspeaker, which he claimed was miles above any loudspeaker on the market. It was a painful ordeal for the writer, but as he was asked to give his candid opinion, he told his friend that the loudspeaker was the worst he had yet heard. It is a proven fact that many people are practically tone deaf.

THE new "pentode" type valve is proving a most useful acquisition to listeners. A Wellington doctor went to the Radio Exhibition and discovered that instead of adding a second audio transformer and valve to his present equipment to increase the volume of local reception, by inserting a "pentode" type valve in his one stage of audio the desired volume was obtainable.

THE writer has been requested to publish a recipe for reviving battery type valves which have become exhausted, "if such a miracle be possible." Providing the filament is not broken the thing is possible. Apart from the use of a patent re-activating device, the following method has proved successful. Place the valve in a socket and light the filament a little above its average operating voltage and leave it burning for about six hours. The "B" battery should be entirely disconnected from the set during this period. If the valve is not efficient after six hours burn it for another six hours. If it is still weak consign it to the dust-bin.



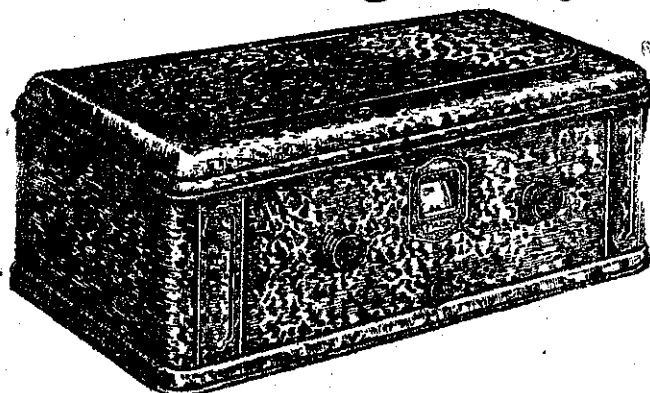
THE new Australian Broadcasting Company have made one egregious mistake at the outset. Instead of stating the time each item will be heard, in their published programmes, as is generally done in New Zealand, no schedule is given. It is pointed out in the Sydney wireless Press that the new system possesses the disadvantage that the listener is unable to learn beforehand when a certain item is likely to be heard and he runs the risk of missing it. It is contended that the average listener wants a detailed and accurate programme to look over.

MR. KEITH GRANT, whose fine baritone voice has been heard from 2YA, Wellington, on a number of occasions, has signed a six months' contract with the new Australian Broadcasting Company. His brother, Mr. Alexander Grant, received word from Mr. Keith Grant that he was to sing from 2FC and 2BL, Sydney, the other night. Mr. Alexander Grant came to the writer's home to listen to his brother 1200 miles away. Each of four songs sung by Mr. Keith Grant came in at full loudspeaker volume, and his brother was deeply impressed with the natural tone of the radio reproduction. The first song from 2BL had already commenced when the station was tuned in, but Mr. Grant instantly recognised his brother's voice.

IT has been estimated in a recent survey that at least one hundred million radio valves will be manufactured and sold in the United States during the radio season of 1929. This is double the number for 1928, and a thousand times as many as in 1922. Although these figures are staggering, when it is considered that the radio industry as a whole has had the most phenomenal growth of any of the nation's industries, it is only logical that the valve industry should show this tremendous increase.

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The Radio Exhibition.

KINDLY permit me to make a little friendly criticism in respect to the Radio Exhibition just lately held at the Town Hall. In the first place, the Town Hall, to my mind, was not suitable for an exhibition of radio exhibits; the stalls were too small and easily got very congested. The consequence was three or four heard and saw everything, the rest nothing. When the crowd got around, one could neither get in or out. Secondly, 99 per cent. of the exhibits were complete valve sets, the other one per cent. a few transformers and valves. As regards general accessories connected with radio, I saw nothing in that way. Much more would have been seen in any radio shop window. Why was there not a good display of crystal sets, valve amplifiers for same, one valve detector sets, two-valve sets, and plenty of radio parts? I believe quite a lot of the aforesaid varieties would have been sold on the spot. Of course, all these things can be bought at any radio shop, but when exhibitions are held to create interest, and put people in a spending mood, it is only logical to cater for the person whose purse is limited. My individual impression of the recent exhibition is that too expensive sets seemed to dominate the whole show—at least as far as the average working man's pocket is concerned. I find that Auckland firms are much more interested in the cheaper side of radio than



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.

here in Wellington. One only has to look at their catalogues. Popular sets at popular prices are made a speciality of.

The concert itself was splendid, and will do a great deal to further the interest of wireless. Our very own Mr. Drummond looked the right man in the right place. I am sure the ladies were very much interested in him. His own speciality on the good-night is very amusing, and is only done for amusement, as any intelligent person well knows. Most announcers say good-night in a tone which seems to imply

"I'm jolly well glad to get the business over." Not so our Mr. Drummond. His farewell is an affectionate one. It is well to remember, too, that our Mr. Drummond is, as far as Wellington is concerned, a pioneer in radio matters. I conclude these brief remarks by saying, "Long may Mr. Drummond be our announcer."—A Friendly Critic.

Thanks for Radio.

I HAVE much pleasure in writing my appreciation of the wireless. It is a "marvel of the age," and I do not think we value it enough. To think only a few Sundays ago we had the privilege of hearing our beloved Archbishop of New Zealand at 11 a.m. and 9.30 p.m., the Archbishop of Canterbury, and various other Bishops during that day. The Westminster Abbey service came in wonderfully well, good volume and clear, the invisible bond between New Zealand and England. Our thanks are due to all who try and make the programmes a success. If people are not satisfied with one station, there are always nine more to tune into! Cheerio!—New Plymouth.

Thanks and Criticism.

IN sending my annual subscription for the "Radio Record" I felt I could not let the opportunity pass without letting you know how much we appreciate the service rendered by the Broadcasting Company. As we were listeners before either 2YA or 3YA opened their new stations, we realise how the company is making every effort to satisfy the majority of listeners. Personally, I do not know what we would do without radio now. There is one thing which I think could well be done without, and a few listeners round here are of the same opinion, and that is the weather reports from the various places in New Zealand. I suppose it is of interest to some or it would not have been started, but I think you will find that to most of us it is a meaningless jumble of words. Wishing every success in the future.—Satisfied Listener.

Here's a Surprised Person.

I AM writing to you to protest about the dance programme the Broadcasting Company are putting over. Why not give us some old-time dance music? A good dance band could be engaged for a moderate sum, and I feel quite sure the Broadcasting Company's effort would be loudly applauded. The announcer could act as M.C., and call out the Alberts, and so on. I am surprised some of the listeners have not mentioned it before. I must close now, hoping to see more letters in your columns about it.—J.T. (Kaitangata.)

Racing and Writers.

I HAVE read your leader in this week's "Record" criticising the attitude of the Racing Conference in continuing their ban on the broadcasting of running events, and must say that I cordially agree with the attitude the Broadcasting Company have taken. Speaking as one who takes a keen, though rarely a financial interest in horse racing, I for one am quite in favour of the abandonment of the present system, which, while being very creditable on the part of the R.B.C., is a very poor substitute at best for the distant country listener. Also, should the telegraphing of totalisator bets become legal, the racing clubs would get a totally unmerited advertisement.

Before concluding, I would like to change the subject and express astonishment at the rambling epistle of "Lux Cum Amore," who places his finger on 2YA's announcer as the weak spot in the R.B. Co.'s organisation. Ye gods! The crowning note of the whole letter's idiocy! Who, among all our announcers, has a voice of such personality and so suitable for delivery of the greatly-varied matter that he has to put over the microphone? Consideration for the pointer, which "Lux Cum Amore" undoubtedly lacked, alone prevents me from saying more than one-tenth of what I would like to say on this subject. As a parting shot, however, let me say that were 2YA's announcer one-hundredth part as poor at his job as "Lux Cum Amore" is at letter-writing, then there would be room for criticism. I feel sure that when "Lux Cum Amore" was affixing his nom-de-plume he meant to write

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Distance with a Crystal.

I AM a constant reader of your paper, and in last week's issue noticed an article on long distance with a crystal set. I have a crystal set, and one Tuesday, after 4YA closed down, I picked up 2YA relaying from Wanganui. I have received 2YA on other nights, but not so well as Tuesday. The volume was equal to that of some of the amateurs here.—"Crystal" (Dunedin).

Believes in Wave Trap.

I HAVE had some interesting experiences with my three-valve set. I have found that the nearest thing to a static eliminator is an efficient wave-trap. By taking a tapping as far down the aerial coil as possible volume will be reduced to small degree but speech will be perfect and static reduced to a minimum.

Last night, when a rebroadcast of the All Blacks' football match was in progress from 4QG, I was tuned into 2YA, Wellington. I found that static was bad. I tried 1YA and it was the same, so I cut them out, took the lowest tapping on my aerial coil, picked up my earphones and went over to 4QG, and to my great surprise static was almost absent. I could hear every word the announcer of 4QG, Brisbane, said. I get good loudspeaker strength

when wavetrap is full open, though speech is not nearly so clear.

All the week, though bad weather, I have found conditions from overseas simply A1. I have logged the following stations since Wednesday this week with remarkable clarity: KPO, San Francisco; KNX, Los Angeles, California; KFOX, Long Beach, California; 2KY, Sydney, and 3UZ, Melbourne. All were clear at good phone strength, fading was the only bugbear. Do the "Yanks" not observe Sunday over there, as they were still going strong on jazz when I shut them out at 8.15 p.m., that would be nearly 1 a.m. there? I have never been troubled with static from overseas since the night Kingsford Smith was found in Derby and attempts were made to get news.

I found that the tapings to give optimum results varied from time to time.

I have no fault to find with YA stations, but I wish they would cut that tacet out from 2YA. The announcers from our YA stations are first class. I think the 2YA announcer one of the best.—"N.Z.R." (Otahuhu).

Quality of Relays.

I HAVE repeatedly noticed that 2YA is much clearer when relaying from the Town Hall than from the studio. It was very marked the night Mr. Holland gave his description of the earthquake. Again, to-night the same thing happens every time that we are switched from the Town Hall to the studio, and back.—H. N. Brocas (Hokianga).

Pleasing Everybody.

AS the time has come once more for the renewal of my subscription to the "Radio Record," I take this opportunity of congratulating the company on their success. I also read the "Record" with keen interest. I often notice some letters from poor dissatisfied, and disgusted listeners. You cannot please everybody. I myself am quite pleased and contented with what is being done by the Radio Broadcasting Company, so I say, "Carry on the good work and good luck."—"Hook" (Timaru).

Band Relays.

I HAVE a four-valve set and get great pleasure out of it. I have been listening to the concert from the Radio Exhibition and I am enjoying it very much, but the station fades a good deal, so does Auckland. Christchurch is the only one that keeps up to standard in New Zealand.

Could you tell me how it is you can broadcast the Wellington Municipal Tramways Band from Wellington, and the Christchurch Municipal Band from Christchurch, and the Auckland Band wants £500 a year, which is ridiculous?—"Poor Townie" (Tangowahine).

Wanganui Relay.

ALLOW me to congratulate station 2YA, Wellington, for their splendid relay of the concert provided by the Queen Alexandra's Own Band, and assisting artists, last Tuesday evening, July 30, at the Opera House, Wanganui. All the items came through with good volume and clarity, the concert being thoroughly enjoyable, from every point of view. I must also express my thanks for the relays of the All Black football matches, recently played in Sydney, which have proved most interesting. Wishing the R.B.C. of New Zealand every success.—Five-Valver (East Town).

Latest Invention

Pentode's Dynamic

An Improvement

LISTENERS who have had the annoyance and expense of buying new valves, because by some mischance they have burned out, will welcome the news that a new valve has been invented which can be renewed when the filament burns out.

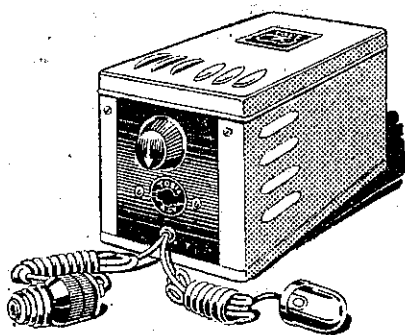
A valve displayed at a recent trade show in America has a heating element that can be withdrawn from the bulb. When the heater burns out it can be replaced and the owner does not have to buy a new bulb. He buys only the heating elements.

A small screw is removed from the base of the valve and the base of the heater element is removed to make way for the new one.

F. HUNTLY (Dannevirke) writes:

Like myself, I suppose many constructors avoid the idea of using cast-iron for pot magnet on account of the low permeability. As I am constructing one of wrought iron, I asked the blacksmith to make me a cylinder of wrought iron bar 4in. x 3-8in. by 12½in. long. If intended to be welded allow a little more in length. The end plates can be of the same material. The core is 1½in. iron bar. To cut down cost as much as possible I had all joints ground flat on a shearing machine grinder. This pot cost me 7s.

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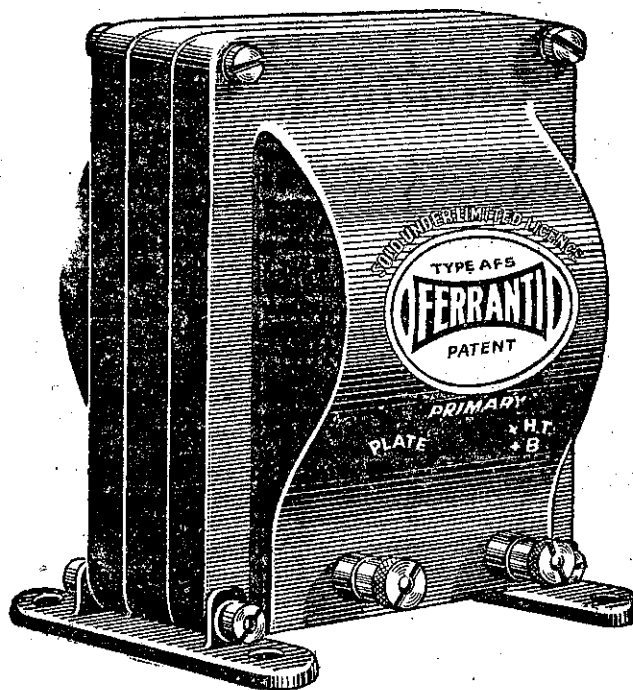
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Next Week's Features

1YA Notes

THE service in St. Andrew's Church will be broadcast on Sunday evening. The Rev. Ivo E. Bertram will be the preacher, and Dr. Neil McDougall will be organist.

IN addition to Madame Mary Towsey's Quartet, the vocalists on Tuesday evening will include new radio performers in the persons of Miss Nancy O'Connor, Miss Ella Hines and Miss Ina Schollum. The concerted numbers will be "Departure" (Mendelssohn) and "Come to the Fair" (Easthope Martin). The solo numbers will include several operatic selections. There will be a further instalment of the grand opera "Carmen," when Act IV will be presented. Orchestral items on the programme will be provided by the Studio Orchestra and by a relay from the Majestic Theatre. There will be a pianoforte novelty by Mr. Eric Waters. It is entitled "Prudy."

Two elocutionary numbers are on the programme for rendition by Mrs. Culford Bell—a scene from "The Heart of Midlothian" and a humorous number, "Reducing."

On Tuesday evening at 7.40 Mr. H. Hollingrake, Mus.Bac., will give a lecture on "Melody." This will be one of the W.E.A. series.

A talk on "Physical Culture" will be given by Mr. Norman Kerr on Wednesday evening.

ON Wednesday evening the programme to be presented by the Auckland Artillery Band, under the conductorship of Mr. Wynne Smith, will comprise two marches, "Simplicity" and "Rebecca," the overture "Tancredi," a novelty number, "Three Blind Mice," a waltz "Il Bacio," and Schubert's "Unfinished Symphony." There will be a cornet solo with band accompaniment, "The Triplets," while Bandsman Thompson will play as a

cornet solo "The Lost Chord." The vocal portion of the programme will be contributed by the Olympians. They will sing the quartet entitled "Echoes." The solo numbers will include "A Spirit Flower" and "Garden of Happiness," to be sung by Miss D. Yound. "Thank God for a Garden" and "My Ain Wee, Hoose" will be given by Miss Martha Williamson. Mr. Lambert Harvey will sing "Macushla" and "Gingham Gown." Mr. H. Barry Coney will sing "Young Dietrich" and "Grendon Fair." There will be elocutionary items by Miss G. Gamman, entitled "The Banishment of Rosalind" (Shakespeare), "The Unsolved Problem" and "England's Emblem."

AN interesting feature of Thursday evening's programme will be the rendition by the Celeste Trio of excerpts from "Westward Ho!" A synopsis of this fine vocal work is as follows:—It is morning on the sea-shore. The fishermen start out to sea and are farewelled by their womenfolk (trio). The children are playing on the beach, and as she watches them a mother sings (mezzo solo). The women are working in a group on the shore. A maiden comes running and announces the arrival of a band of gypsies. They follow her to the village green and listen to the gypsies singing (trio). Evening: Two maidens sing in the lighthouse tower (duet). The women meet in terror at the rising storm (trio, choral prayer). Lullaby: A wife sings to her little child (contralto solo). Morning: The safe return of the fishermen (trio).

Other vocal items on the programme will be contributed by Mr. Reg. Richards, who will sing "Fairy Tales of Ireland," "Friend," and "Youth has a Happy Tread." Humorous elocutionary numbers will be given by Mr. T. T. Garland. There will be a flute solo by Mr. A. A. Dunn, and the Studio Orchestra will present a popular programme. A dance music session will continue till 11 p.m.

ON Friday evening, at 7 p.m., there will be a talk on Rugby Football

by Mr. Frank Sutherland. At 9 o'clock Mr. A. B. Chappell will give another "Topical Talk." The studio classical programme on Friday evening will be preceded by a thirty minutes' relay of a concert arranged by Messrs. Lewis Eady Limited. The vocal portion of the studio programme will be provided by the Clarion Quartet. Among the solos will be "The Asra," "Where'er You Walk," and "The Nightwatchman." The programme includes two fine duets, "O Lovely Night" and "Life's Dream

Liza Lehmann's songs, "The Yellowhammer's Song" and "The Wood Pigeon." The former is by request. She will also be heard in a duet with Mr. G. Flanagan. Listeners will remember Mr. Flanagan's singing when he appeared recently with Miss Ailsa Nicol in the song cycle, "Jhelum River." His items on this occasion will be Tschalkowsky's beautiful ballad, "To the Forest" and "Drums" (by Meale).

MR. CHAS. EDWARDS, the tenor soloist for Monday evening, will be heard in two numbers which should show up his voice and dramatic temperament to advantage, his items being "Oh, Could I in Song Express My Sorrow" (by Malashkin) and "Lord Randall."

MISS LILLIAN HAMBLEY, a young contralto who is making her first appearance before the microphone on Monday evening, has had some public experience in singing at competition festivals and her items will be widely appreciated. Bemberg's "Hindoo Song," Liddle's "Home Song" and "Who Knows" (by Ball) will be sung.

AN item that is "different" is what one can truthfully say about Mr. Victor S. Lloyd's work. This artist holds the interest of listeners by relating various "experiences" he has had. He has the happy knack of being able to make each of his listeners feel that he is talking specially to him, as "one friend to another," and, of course, he always introduces a little surprise to round off the story.

ON Monday evening the studio orchestra will play the overture "Athalie," by Mendelssohn, Brahms' "Lyric Suite," the "Largo" from Dvorak's "New World Symphony," Tschalkowsky's "Petite Suite," a "Caprice" by Moszkowski, and Brahms' "Hungarian Dances" (Numbers 4 and 7).

THE "popular" evening at 2YA falls on a Tuesday evening, and the programme on this occasion will be one that will find favour with varying tastes. Baritone solos by Mr. Claude Moss will be "The Ar" and the Song," and two Maori songs, "Hoea Ra" and "Tahi nei toru Kino." Listeners still have pleasant recollections of Mr. Moss's finished singing at the recent "Hinemoa" concert relayed from the Town Hall, and apropos of this arrangements have been completed for Mr. Moss to sing some further Maori numbers at a later date, details of which will be announced later. Those well-known entertainers, the Two Boiled Owls, will also be on the programme, their items comprising a humorous sketch, novelty, instrumental, and vocal numbers. Mrs. E. Miller, a newcomer to the microphone, will be heard in several numbers from musical comedies, and popular songs will be sung by Mr. Maurice Chapman. The orchestral items will include "The Bronze Horse" overture by Auber, Lullini's "Ballet Russe, Part I," two popular song numbers, "Was It a



Mrs. H. W. Stow, whose mezzo-soprano is enjoyed by listeners to 3YA.
—S. Webb, Photo.

is O'er." Miss Molly Wright, cellist, will play "Melodie," and there will be items by the Studio Trio.

A talk on "Chrysanthemums" will be given on Saturday evening at 7.40 by Mr. Dale.

SATURDAY'S popular programme will provide splendid variety, including, as it does, Mr. and Mrs. Wilfred Scott in "Musical Moments," Miss Nellie Lingard, contralto, Mr. J. F. Montague in humorous items, and the Studio Orchestra. The concluding portion of the programme will be given over to dance music until 11 p.m.

2YA Features

THE evening service of St. John's Presbyterian Church will be relayed on Sunday evening and at the conclusion of the service the recital to be given by the Wellington Municipal Tramways Band in His Majesty's Theatre will be broadcast.

ON Monday evening Miss Ailsa Nicol, the well-known soprano, whose work is always pleasing by virtue of her artistry and her good radio voice, will be appearing on the programme. Her solo numbers will be "The Willow," by Goring Thomas, and two of

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"Dream," and "The Man I Love," Besley's "Second Minuet," and two "Russian Dances" by Bortkiewicz.

ON Thursday evening the Wellington Artillery Band, under the conductorship of Captain T. Hird, will present an interesting and entertaining programme. The band will be assisted by the following artists: Mrs. Alma Millward (mezzo-soprano), Mr. Norman Izett (pianist), Mr. Wilbur Davies (baritone), Miss Rene Goyder (contralto), and Mr. Harry Phipps (tenor). The band items comprise "The Diamond Star" overture, a humorous fantasy, "Pop Goes the Weasel," a grand opera selection "Don Giovanni," the fantasia "A Darkey's Dreamland," a cornet solo, "O Promise Me," and the cornet duet, "Besses o' the Barn." Mr. W. Sneddon will be the cornet soloist in the first item, and Messrs. W. Sneddon and Houchner will play the latter number.

AN outstanding feature of Thursday evening's programme will be the lecturette to be delivered by the Bishop of Aotea Roa on Maori legends. A similar lecturette given by his Lordship from 3YA recently was the subject of very favourable comment. Mr. Harry Phipps, the well-known local tenor, will be making a welcome re-appearance before the microphone on Thursday evening, his items on this occasion being "By the Waters" (Adams) and two numbers from "Sea Echoes" by Montague Phillips—viz., "Nightfall at Sea" and "If We Sailed Away." Mr. Wilbur Davies, a popular baritone, has chosen for his items "The Sea Road," by Haydn Wood, Sanderson's "Harlequin" and "Spanish Gold" (by Fisher). Mrs. Alma Millward, the possessor of a pleasing mezzo-soprano voice, will be heard in Vaughan's "June is in My Heart," Leoni's "The Birth of Morn" and Agnes Mary Lang's "Salaam." Mr. Norman Izett, one of Wellington's most promising pianists, will be heard in a solo number, "Valse in A Flat," by Chopin.

A NEW artist to perform at 2YA on Thursday evening's programme will be Miss Rene Goyder, a well-known teacher of music and singing. She was at one time a pupil of Miss Mina Caldwell, the well-known New Zealand contralto. Miss Goyder's items will be Houghton's "Not Understood" (the words of which are by Thomas Bracken, the New Zealand poet), "Down Here" (by May Brahe), and "I Am Longing for the Spring" by Norris.

FRIDAY evening's programme will comprise grand opera and musical comedy numbers by Mrs. W. Fraser

Morrish (soprano), Mr. Val Jones (baritone), Mrs. T. Treacey (contralto), and Mr. Oliver Foote (tenor). Mr. Albert Davey will be heard in two elocutionary numbers "A Touch of Sun" and "The Dandy Fifth." Miss Glen Carty, a young pianiste from the studio of Mr. Gordon Short, will be heard in a solo number entitled "Toccatina" (by Saint-Saens). The orchestral items will be the overture to "Peter Schmolli," a "Faust" selection, and selections from "The Arcadians," "Genevieve de Brabant" and "Ballet Music" from "Carmen" will be presented by means of gramophone records.

ON Saturday evening the usual vaudeville programme will be presented, the supporting artists being the Melodie Four, Berthold and Bent



MRS. E. H. DAVIES,
popular contralto from 3YA.
—Stephano Webb, Photo.

(steel guitar duo), Mr. Bert Thompson (humour), and Mrs. M. R. Lightbody (soubrette). A ventriloquist and his pal will also be introduced. The orchestral items will be the march "Castles in Spain," coupled with the waltz "Il Bacio," a musical comedy selection "Stop Flirting," a selection "Under the British Flag," two novelty numbers, "The Drummer's Birthday" and "The Glory of the Sea." From 10 p.m. onwards the usual dance programme will be broadcast.

3YA Items

THE Rev. J. Robertson, M.A., will be the preacher at the Oxford Terrace Baptist Church on Sunday evening, when the service is to be broadcast. A rebroadcast of the concert to be given in His Majesty's Theatre by the Wellington Municipal Tramways Band will follow.

"The Summit Road," which is at times a much-discussed question in Christchurch, will have a new value placed upon it by Mr. Charles Buckett on Monday evening. Mr. Buckett is a physical culturist, and he will speak on "The Summit Road as a Health Asset."

AT 9 o'clock on Monday evening a further talk will be given by Mr. D. E. Parton, Telegraph Engineer. Speaking under the auspices of the Public Utilities Committee, Mr. Parton will continue his series of instructive lecturettes on "Tree Trimming."

THE concert programme on Monday evening will feature Derry's Military Band under Mr. J. M. Scott. A programme of great variety will be presented. The numbers will include two fine marches, a patrol, a selection from "Rose Marie," "Coronation Bells" (a descriptive march), a humorous lightning switch, a fantasia descriptive of a hunting scene and a waltz, Ketelby's "Appassionata." Further instrumental numbers will be provided by the Studio Trio. The vocalists contributing to the evening's programme will be Miss Lucy Fullwood, Mrs. Nellie Whitworth, and Mr. Robert Samson, baritone. Mr. Samson's numbers will be "Glorious Devon," "Tommy Lad," and "Lighterman Tom." Miss Marion Drysdale, who will appear in radio for the first time, will give three elocutionary pieces.

This being race week in Christchurch, 3YA will not observe a silent night on Tuesday, but will present a bright vaudeville programme. This will be in the hands of the Revellers' Concert Party. A diversified programme will be presented, comprising solos, choruses, recitations, and sketches.

THE operatic airs in Wednesday evening's programme will include a solo from "Les Huguenots," sung by Miss Merle Miller, and the ever-popular "La Donna e Mobile" (from "Rigoletto"), sung by Mr. Harold Prescott. Miss Miller will also sing Tchaikovsky's "To the Forest," "Heart's Ease" (Willeby), and "Still as the Night" (Bohm). Miss Eileen Grennell (soprano) will sing "The Cry of Rachel," "The Old Refrain," and "Nightingales of June." Further tenor solos by Mr. Prescott will be "Lord Randall," "Awake, Beloved," and "Sally in Our Alley." Mr. Fred C. Penfold (baritone) will sing "The Bandolero," "For You Alone," and "To-morrow." There will be two elocutionary numbers by Mr. Hiram Dunford. Miss A. Harlev Slack, late of the Sydney Conservatorium, will contribute two pianoforte selections, and a varied programme will be provided by the Studio Orchestra under Mr. Harold Beck.

CONCERTED numbers by the Grand Opera Quartet on Thursday evening will be Elgar's "Fly, Singing Birds,

Fly," "A Hundred Pipers," "Departure," and "How Sweet the Moonlight Sleeps." There will be several duets and numerous solos; the latter will include Schubert's "Serenade," "Song of Florian," "Love Dreams," "Come, for it's June," "King of the Vasty Deep," "Who is Sylvia," and "O, But to Hear That Voice." There will be instrumental items by the Studio Trio.

On Friday evening at 7.30, Mr. E. E. Jones will speak on "The Aims and Objects of the Chamber of Commerce."

OWING to a boxing relay which will commence at 9 o'clock, the scheduled programme for Friday is subject to alteration. The vocalists engaged for the concert are the Valencia Quartet, who will present concerted and solo numbers. The quartets will be "When the Heart is Young" and "The Village Blacksmith." The solos will include a number of old favourites whose popularity is still green. Also on this programme will be The Chatterboxes, who will act sketches. The cello solos by Mr. Harold Beck will include "The Swan," by Saint-Saens, and there will be items by the Studio Trio.

On Saturday evening 3YA will rebroadcast 2YA.

4YA Features

THE service in St. Paul's Cathedral will be broadcast on Sunday evening. Canon Nevill will be the preacher. The after-church entertainment will consist of a concert to be given by the St. Kilda Band and relayed from His Majesty's Theatre.

The second of the series, "With the Poets," given by Mr. Angus Gorrie, on Monday evening, will deal with Sir Arthur Conan Doyle. This evening, also, the Fourth (and final) Act of "Carmen" will be presented. The supporting concert programme will be of a miscellaneous nature. The vocalists will be Miss Louise de Rega (soprano), Mr. H. McKay (tenor), and Mr. Arthur W. Alloo (baritone). The members of the Studio Trio will play concerted and solo numbers.

"Greece and the Modern World" will be the title of a lecturette on Tuesday evening at 7.30 by Professor Brown, under the auspices of the W.E.A.

A FIRST-RATE programme of varied items will be presented by the St. Kilda Band on Tuesday evening. These items will comprise "Red Gauntlet" and "Love and Honour" (marches), (Concluded on page 24.)

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Full Programmes for Next

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Sunday, August 11

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, AUGUST 11.

- 3.0 : Afternoon session—selected Studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Further Studio items.
 4.30 : Close down.
 6.0 : Children's session, conducted by Uncle Leo.
 7.0 : Relay of service from St. Andrew's Presbyterian Church. Preacher: Rev. Ivo Bertram. Organist: Dr. Neil McDougall.
 8.30 (approx.): Orchestral.
 Contralto—Mrs. L. Edwards, "Friend of Mine" (Boosey-Sanderson).
 Piano—Ignaz Friedman, "La Campanella" (Arrgd. Lizet-Busoni) (Columbia Record L1804).
 Tenor—Mr. T. Moffitt, (a) "I Heard You Go By" (Boosey-Brahe); (b) "Who is Sylvia?" (Boosey-Schubert).
 Soprano solo—Mrs. A. E. Schade, "Little Brown Cottage" (Enoch-Dickson).
 Band—Band of H.M. Grenadier Guards, W. H. Squire's popular songs (Squire) (Columbia Record 939).
 Contralto—Mrs. L. Edwards, "As You Pass By" (Boosey-Russell).
 Violin—Leo Cherniavsky, "From the Conebrake" (Gardner) (Columbia Record 0894).
 Tenor—Mr. T. Moffitt (a) "Sally in Our Alley" (Boosey-Carey).
 Soprano—Mrs. A. E. Schade (a) "The Dove" (Enoch-Ronald); (b) "Ave Maria" (A. H. Schubert).
 Band—National Military Band, "La Traviata" Selection (Verdi) (Columbia Record 9014).
 God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, AUGUST 11.

- 3.0 : Afternoon session—Selected gramophone items.
 6.0 : Children's song service, conducted by Uncle George.
 7.0 : Relay of service from St. John's Presbyterian Church: Preacher: Rev. J. R. Blanchard, B.A. Organist and Choirmaster: Mr. C. W. Kerry.
 8.15 (approx.): Relay from His Majesty's Theatre of recital by the Wellington Municipal Tramways Band.
 Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, AUGUST 11.

- 3.0 : Afternoon session—Selected studio items.
 4.30 : Close down.
 5.30 : Children's song service (Children of the Baptist Sunday Schools).
 6.15 : Hymn chimes from studio.
 6.30 : Relay of service from the Oxford Terrace Baptist Church: Preacher: Rev. J. Robertson, M.A. Organist: Mr. Melville Lawry. Musical Director: Mr. O. Murray Jones.
 8.0 : Studio concert of selected gramophone records.
 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 11.

- 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.
 6.15 : Close down.
 6.30 : Relay of service from St. Paul's Cathedral: Preacher: Canon Nevill. Organist: Mr. E. Heywood, F.R.C.O.
 8.5 : Relay from His Majesty's Theatre of concert by the St. Kilda Band under the conductorship of Mr. James Dixon.
 9.15 : Close down.

Monday, August 12

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY AUGUST 12.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, AUGUST 12.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 3.40 : Relay from Messrs. Kirkcaldie and Stains' Tea-rooms 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—Orchestre Symphonique de Paris, "Ballet Egyptien—Allegro and Allegretto" (Luigini) (Columbia Record 02785).
 Bass solo—Peter Richardson, "The Temple Bells" (Woodforde-Finden) (Zonophone Record 5173).
 6.12 : Tacet.
 6.15 : Orchestral—Orchestre Symphonique de Paris, "Ballet Egyptien—Andante and Finale" (Luigini) (Columbia Record 02786).
 Bass solo—Peter Richardson, "Kashmiri Song" (Woodforde-Finden) (Zonophone Record 5173).
 6.27 : Tacet.
 6.30 : Orchestral—J. H. Squire's Celeste Octet, (a) "Mignon—Introduction and Romance" (Thomas), (b) "Mignon—Polonaise" (Thomas) (Columbia Record 02749).
 Bass solo—Peter Richardson, "Less Than the Dust" (Woodforde-Finden) (Zonophone Record 5172).
 6.42 : Tacet.
 6.45 : Orchestral—Chicago Symphony Orchestra, (a) "Xerxes—Largo" (Handel), (b) "Slavonic Dance in G Minor" (Dvorak) (H.M.V. Record D1432).
 Bass solo—Peter Richardson, "Till I Wake" (Woodforde-Finden) (Zonophone Record 5172).
 6.56 : Tacet.
 7.0 : News session—Market reports and sports results.
 7.40 : Lecturette—Mr. H. C. South, "Books—Grave and Gay."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Athalia" (Mendelssohn).
 8.9 : Soprano solo—Miss Ailsa Nicol, "The Willow" (Thomas).
 8.13 : Pianoforte solo—Miss Dulcie Reeve, "Impromptu in F Sharp" (Chopin).
 8.19 : Baritone solo—Mr. A. G. Flanagan, "To the Forest" (Tschalkowsky).
 8.23 : Suite—Orchestra, "Lyrie Suite" (Brahms).
 8.31 : Contralto solo—Miss Lillian Hambly, "Hindoo Song" (Bemberg).
 8.35 : Tenor solo—Mr. Charles Edwards, "Oh, Could I in Song Tell My Sorrows" (Malashkin).
 8.39 : Cello solo—Laurie Kennedy, "Hungarian Rhapsody" (Popper) (H.M.V. Record C1595).
 8.47 : Vocal duet—Miss Ailsa Nicol and Mr. A. G. Flanagan, "Bird Songs at Eventide" (Coates).
 8.51 : Instrumental—Orchestra, "Largo" ("New World Symphony") (Dvorak).
 8.59 : Weather report.
 9.1 : Recital—Mr. Victor S. Lloyd will relate another of his experiences.
 9.13 : Suite—Orchestra, "Petite Suite" (Tschalkowsky).
 9.21 : Soprano solos—Miss Ailsa Nicol, (a) "The Yellow-Hammer's Song" (Lehmann); (b) "The Wood Pigeon" (Lehmann).
 9.27 : Baritone solo—Mr. A. G. Flanagan, "Drums" (Meale).
 9.31 : Instrumental—Orchestra, "Caprice" (Moszkowski).
 9.36 : Contralto solos—Miss Lillian Hambly, (a) "Home Song" (Liddle), (b) "Who Knows" (Ball).
 9.42 : Cello solos—Laurie Kennedy, (a) "Cradle Song" (Brahms), (b) "Songs My Mother Taught Me" (Dvorak) (H.M.V. Record C1595).
 9.50 : Tenor solo—Mr. Charles Edwards, "Lord Randall" (Scott).
 9.54 : Instrumental—Orchestra, "Hungarian Dances" No. 4 and No. 7 (Brahms).
 10.2 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, AUGUST 12.

- 3.0 : Afternoon session—Selected studio items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 6.0 : Children's session conducted by "Scatterjoy."
 7.0 : News session.
 7.30 : Talk—Mr. Charles Buckett, "The Summit Road as a Health Asset."
 8.0 : Chimes.
 Programme by Derry's Military Band under the conductorship of Mr. M. J. Scott, and assisting artists.
 8.1 : March—Band, "Under the Stars" (Weiss).
 Patrol—Band, "Guard Mount" (Ellenberg) (illustrative of the approach, passing by, and disappearance in the distance of a military patrol).

Week-all Stations-to Aug. 18

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- 8.11: Mezzo-soprano solos—Miss Lucy Fullwood, (a) "There's a Song Down Every Roadway" (Haydn Wood), (b) "Heigh-Ho" (German).
 8.15: Wurlitzer organ solo—Charles W. Saxby, "Raymond" Overture (Thomas) (Zonophone Record 5157).
 8.21: Instrumental—Christchurch Broadcasting Trio, (a) "Miniature Trio" (Gurlitt), (b) "Polonaise" (Chopin).
 8.31: Baritone solos—Mr. Robert Samson, (a) "Glorious Devon" (German), (b) "Tommy Lad" (Margetson).
 8.37: Selection—Band, "Rose Marie" (Friml).
 8.45: Recital—Miss Marion Drysdale, "The Art of Making Up One's Mind" ("Three Men in a Boat") (Jerome).
 8.51: Mezzo-contralto solos—Mrs. Nellie Whitworth, (a) "In a Garden" (Hawley), (b) "Under the Deodar" ("The Country Girl") (Monckton).
 8.57: Descriptive march—Band, "Coronation Bells" (Partridge).
 9.2: Weather report.
 9.7: Talk—Mr. D. E. Parton, "Tree-Trimming."
 9.22: Instrumental—Christchurch Broadcasting Trio, (a) "In the Hall of the Mountain King" ("Peer Gynt" Suite) (Grieg), (b) "Nocturne" (Chopin), (c) "A La Bien Aimee" (Schutt).
 9.32: Mezzo-soprano solos—Miss Lucy Fullwood, (a) "Cupid, Fickle Cupid" (German), (b) "Don't Hurry" (Sanderson).
 9.37: Baritone solo—Mr. Robert Samson, "Lighterman Tom" (Squire).
 9.41: Fantasia—Band, "A Hunting Scene" (Bucalossi).
 (Synopsis: The morning breaks calm and peaceful. We jump to our saddles, and the huntsman sounds a merry blast. The road is alive with horsemen—the huntsmen in full cry—then the death and return home.)
 Humoresque—Band, "A Lightning Switch" (Alford).
 (This humoresque is an interesting example of the difficulties encountered by composers in their search for original melody. Numerous airs are welded together in a continuous blend of harmony and merriment, illustrating the similarity of one tune to the other.)
 9.54: Recitals—Miss Marion Drysdale, (a) "A Lesson with the Fan" (Weatherley), (b) "Finigan to Flanagan" (from life) (Gillinan).
 9.59: Mezzo-contralto solos—Miss Nellie Whitworth, (a) "Somewhere, Sometime" (St. Helier), (b) "The Dream Canoe" (Squire).
 10.3: Waltz—Band, "Appassionata" (Ketelbey).
 March—Band, "The Gladiator's Farewell" (Blankenburg).
 10.13: Close down.

4YA, DUNEDIN (650 KILOCYCLES).—MONDAY, AUGUST 12.

- 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—Band of H.M. Coldstream Guards, "Raymond" (Thomas) (H.M.V. Record C1440).
 8.5: Soprano solos—Miss Louise de Rega, (a) "Mon Cœur est Pour Toi" (Sileu), (b) "Se Seran Rose" (Arditi).
 8.12: Instrumental—4YA Broadcasting Trio, "Aida" Selection (Verdi).
 8.18: Baritone solos—Mr. Arthur W. Alloo, (a) "My Peace Thou Art" (Schubert), (b) "As I Lay in the Early Sun" (Slater).
 8.25: Presentation of the grand opera Carmen" (Bizet)—Fourth Instalment—Act IV (Columbia Records 9539/41).
 9.0: Weather report.
 9.2: Recital—Mr. Angus Gorrie—With the Poets—Sir Arthur Conan Doyle."
 9.22: 4YA Broadcasting Trio, Cavalleria Rusticana" (Mascagni).
 9.28: Tenor solos—Mr. H. McKay, (a) Lassie O' Mine" (Walt); (b) Linden Lea" (Williams).
 9.35: Pianoforte solo—Mrs. Ernest Drake, Moonlight Sonata" (Beethoven).
 9.40: Soprano solo—Miss Louis de Rega, "The Nightingale and the Rose" (Thompson).
 9.44: Violin solo—Mr. Frank Parsons, Caprice Viennois" (Kreisler).
 9.50: Baritone solo—Mr. Arthur W. Alloo, Eleanore" (Coleridge-Taylor).
 9.55: Cello solo—Mr. P. J. Palmer, Liebestraume" (Liszt).
 10.0: Tenor solo—Mr. H. McKay, Molly Bawn" (Moffat).
 10.4: Close down.

Tuesday, August 13

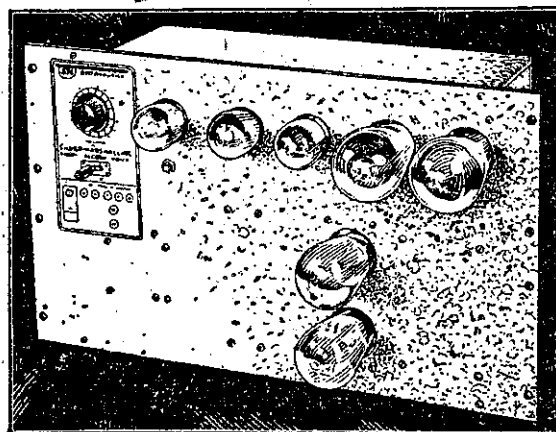
4YA, AUCKLAND (900 KILOCYCLES).—TUESDAY, AUGUST 13.

- 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 Uncle George.
 7.0: Book review.
 7.15: News and market reports.
 7.40: Talk—Mr. H. Hollinrake, Mus. Bac., "Melody" (Under the auspices of the Workers' Educational Association).
 8.0: Chimes.
 8.1: Relay from Majestic Theatre of overture by orchestra, under the direction of Mr. J. Whiteford-Waugh.
 8.11: Vocal quartet—Madame Mary Towsey's Quartet, "Departure" (Mendelssohn).
 8.15: Soprano solo—Miss Nancy O'Connor, "In Queele Trine Morbide" ("Manon Lescaut" (Puccini).
 8.20: Instrumental—Studio Trio, (a) "Souvenir" (Renee); (b) "Waltz in A Major" (Levitizki).
 8.29: Tenor solo—Mr. John McDougall, "My Pretty Jane" (Hatton).
 8.33: Humorous recital—Mrs. Oulford Bell, "Reducing" (Herbert).
 8.38: Soprano solo—Madame Mary Towsey, "O Mio Fernando" ("La Favorita" (Donizetti).
 8.42: Pianoforte solo—Mr. Eric Waters, "Prudy" (Banta de Rose).
 8.45: Solo and chorus—Miss Ella Hines, "The Touch of a Woman's Hand" ("Going Up") (Hirsch).
 8.48: Baritone solo—Mr. John Bree, "Il Balen" ("Il Trovatore") (Verdi).
 8.52: Soprano solos—Miss N. O'Connor, (a) "Songs My Mother Taught Me" (Dvorak); (b) "Chinese Flower" (Bantock).

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AUCKLAND.

- 8.57: Contralto solo—Miss E. Peace, "Sweet Spirit, Hear My Prayer" ("Maritana") (Wallace).
 9.1: Weather report.
 9.3: Instrumental—Studio Trio, "Gypsy Princess" (Kalman).
 9.12: Recital—Mrs. Culford Bell, scene from "The Heart of Midlothian" (Scott).
 9.19: Mezzo-soprano solo—Miss Ina Schollum, "Lucia" (Luzzi).
 9.28: Vocal quartet—Madame Mary Towsey's Quartet, "Come to the Fair" (Martin).
 9.26: Presentation of the opera "Carmen" (Bizet)—Final Instalment—Act 4 (Columbia Records 9539-41):
 Synopsis: Act 4 takes us into the midst of all the noise and excitement of the impending bull-fight in Seville. Escamillo is the hero of the hour. He bids Carmen await his coming triumph. Carmen is intercepted by Jose as she is about to enter the arena. Jose no longer plays the part of the pleading and resentful lover. He is now desperate beyond all bounds, and, when his imperious demands are scorned by Carmen, who exultantly declares her love for the triumphant bull-fighter, he whips out his knife. Escamillo returns triumphant, acclaimed by the excited crowd. There is no welcome for him—Carmen is dead!
 10.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, AUGUST 13.

- 3.0: Chimes of the G.P.O. clock.
 3.1: Selected gramophone items.
 4.30 and
 4.50: Sports results to hand.
 6.0: Dinner session:
 Orchestral—Edith Lorand Orchestra, "Tales From the Vienna Woods" (Strauss) (Parlophone Record E10624).
 Comedian—Johnny Marvin, "Happy Days and Lonely Nights" (Rose) (H.M.V. Record EA465).
 6.12: Tacet.
 6.15: Pianoforte solo—Herschel Henlere, "Tinkering With 'Home, Sweet Home'" (Parlophone Record A2643).
 Baritone solo—Dennis Noble, "I'm the Factotum of the Town" ("Barber of Seville") (Rossini) (Columbia Record 02748).
 6.26: Tacet.
 6.30: Soprano solo—Corinne Rider-Kelsey, "By the Waters of Minnetonka" (Licurance) (Columbia Record 03625).
 Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder Medley" (Lauder) (Columbia Record 02750).
 Waltz—Chicago Symphony Orchestra, "Artists' Life" (Strauss) (Columbia Record 02577).
 6.41: Tacet.
 6.45: Accordion solo—Johnny Sylvester, "Mighty Lak' a Rose" (Nevin) (Regal Record G20352).
 Cello solo—W. H. Squire, "Melody in F" (Rubinstein-Popper) (Columbia Record 04178).
 6.56: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Representative of the Agricultural Department, "For the Man on the Land."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, "The Bronze Horse" (Auber).
 8.9: Soprano solos—Mrs. E. Miller, (a) "If You're in Love You'll Waltz" ("Rio Rita") (Tietney); (b) "Following the Sun Around" ("Rio Rita") (Tietney).
 8.16: Baritone solo—Mr. Claude Moss, "The Arrow and the Song" (Balfe).
 8.20: Instrumental—Orchestra, "Ballet Russe" Part 1 (Lugini).
 8.28: Humorous sketch—The Two Boiled Owls, "Station 2 H.O.W.L." (Original).
 8.35: Popular song—Mr. Maurice Chapman, "West of the Great Divide" (Ball).
 8.39: Marimba Orchestra, "Padilla's Marimba Serenaders"; (a) "Paree" (Padilla); (b) "Dolores Waltz" (Waldteufel) (Regal Record G20344).
 8.47: Soprano solo—Mrs. E. Miller, "Hallelujah" (Youmans).
 8.51: Instrumental—Orchestra, (a) "Was It a Dream?" (Coslow); (b) "The Man I Love" (Gershwin).
 8.59: Weather report.
 9.1: Baritone solos—Mr. Claude Moss, two Maori songs—(a) "Hoea Ra" (Piripata); (b) "Tahi Nei Taru Kino" (Piripata).
 9.7: Instrumental—Orchestra, "Second Minuet" (Besley).
 9.12: Novelty—The Two Boiled Owls, (a) Piano, "Russian Lullaby" (Berlin); (b) Vocal—"Jest Her Way" (Aitken).
 9.19: Popular songs—Mr. Maurice Chapman, (a) "Carolina Moon" (Davis); (b) "Marie" (Berlin).
 9.25: Instrumental—Orchestra, "Russian Dances" Nos. 1 and 4 (Bortkiewicz).
 9.30: "Brunswick" Dance Programme:
 Foxtrots with vocal chorus—Bob Haring's Orchestra, (a) "Some Sweet Day" (Shilkret); (b) "Weary River" (Clarke) (Brunswick 4273).
 Foxtrots with vocal chorus—The Clevelanders, (a) "I'm Thirsty for Kisses, Hungry for Love" (Davis); (b) "A Little Town Called Home, Sweet Home" (Donaldson) (Brunswick Record 4252).
 9.43: Wurlitzer organ solos—Eddie Dunstetter, (a) "Parade of the Wooden Soldiers" (Jessel); (b) "Ah! Sweet Mystery of Life" (Young) (Brunswick Record 4293).
 Waltz with vocal chorus—The Thematics Orchestra, "Giovanna" (Kountz) (Brunswick Record 4310).

- Waltz with vocal chorus—Bob Haring's Orchestra, "A Night in May" (Simon) (Brunswick Record 4310).
 Waltz with vocal chorus and whistling—The Eight Radio Stars, "The Dream Girl of P.I.K.A." (Shields) (Brunswick Record 4310).
 10.0: Male trio—Earl Burnett's Biltmore Trio, "Avalon Town" (Brunswick Record 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 Record 4308).
 Waltz with vocal chorus—The Thematics Orchestra, "Lady Divine" (Kountz) (Brunswick Record 4297).
 10.13: Solo and chorus—Vernon Rickard with Hatch's Melody-makers, "One Golden Hour With You" (Pollack) (Brunswick Record 4262).
 Foxtrot with vocal chorus—Fred Hamn and His Collegians, "True Blue" (Garland-Gillespie) (Brunswick Record 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 Record 4283).
 Waltz with vocal chorus—Colonial Club Orchestra, "Why Don't You Love Me?" (Mason) (Brunswick Record 4294).
 10.30: Male chorus—"Famous Forty" Elks Chorus, "Sweet and Low" (Ten-nyson-Barnby) (Brunswick Record 3973).
 Soprano solo—Elizabeth Rethberg, "By a Lonely Forest Pathway" (Chapman) (Brunswick Record 15146).
 Foxtrots with vocal chorus—Bob Haring's Orchestra, (a) "Deep Night" (Valee); (b) "Wedding Bells" (Kahal) (Brunswick Record 4246).
 10.42: Organ with trumpet and drum—Lew White, "Sweethearts on Parade" (Newman) (Brunswick Record 4263).
 Organ with guitar and vibraphone—Lew White, "My Tonia" (De Sylva) (Brunswick Record 4263).
 Vocal duet with whistling and orchestra—Frank Luther and Carson Robison, (a) "Old Kentucky Cabin" (Robison); (b) "Blue Lagoon" (Robison) (Brunswick Record 4222).
 Waltz with vocal chorus—Hotel Roosevelt Orchestra, "Coquette" (Berlin) (Brunswick Record 4283).
 Foxtrot with vocal chorus—Hotel Roosevelt Orchestra, "Till We Meet" (Davis) (Brunswick Record 4284).
 11.0: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, AUGUST 13.

- 7.0: News session.
 8.0: Chimes.
 Concert by "The Revellers" Concert Party:
 Overture—"Russian Festival" (Victor Record 7018).
 Opening chorus.
 Recital—"No News" (MS).
 Tenor solo—"Lolita" (Buzzi-Pecchia).
 Pianoforte duet—"Wedding of the Painted Doll" (Brown).
 Contralto solo—"Can't Help Loving Dat Mah" (Kern).
 Dance music—"Deep Night" (Victor Record 21868).
 Sketch—"The Punter's Friend" (Simpson).
 Chorus—"When Summer's Gone" (Wilhite).
 Humour—"The Unbeliever" (a racing story).
 Vocal duet—"Maying" (Smith).
 Bass solo—"Since You Went Away" (Johnson).
 Dance music—"Broadway Melody" (H.M.V. Record 21866).
 Recital—"How I Took Willie to Lunch" (MS).
 Plantation song—"In the Moonlight" (MS).
 Weather report.
 Contralto solo—"Ma Lindy Lou" (Strickland).
 Sketch—"A Restaurant Episode" (Lester).
 Vocal duet—"Why Do I Love You?" (Kern).
 Dance music—"I Kiss Your Hand" (H.M.V. Record EA519).
 Chorus—"A Room With a View" (Coward).
 Pianoforte solo—"Honey" (Writing).
 Racing story and humour—(a) "Rio Grande's Last Race" (Banjo Paterson); (b) "The Jockey's Story" (MS).
 Tenor solo—"My Pretty Jane" (Bishop).
 Mezzo-soprano solo, "Love's Garden of Roses" (Wood).
 Saxophone solo—Rudy Wiedoeft, "La Golondrioux" (H.M.V. Record EE129).
 Sketch—"Cyrano de Bermondsey" (Simpson).
 Bass solo with chorus—"Ol' Man River" (Kern).
 Patter.
 Chorus—"I Life Up Finger" (Sarony).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, AUGUST 13.

- 3.0: Town Hall chimes.
 3.1: Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Children's session, conducted by Big Brother Bill.
 7.0: News session.
 7.30: Lecturette—Professor Lawson (under the auspices of the Workers' Educational Association)—"Greece and the Modern World."
 8.0: Town Hall chimes.
 Studio concert by the St. Kilda Band, under the conductorship of Mr. James Dixon, and assisting artists.

- 8.1 : March—Band, "The Gauntlet" (Rimmer).
 8.6 : Bass solos—Mr. A. G. Cooke, (a) "The Lilac Tree" (Gartlan); (b) "Down on the Farm" (Von Tilzer).
 8.13: Cornet solo—Band, "When You Come Home" (Squire).
 8.23: Mezzo-soprano solos, Miss Evelyn Shepherd, (a) "The Reason" (Del Riego); (b) Selection from "A Child's Garden of Verses" (Robert Louis Stevenson).
 8.35: Selection—Band, "Eroica" (Beethoven).
 8.47: Male quartet—The Rounders, "Chloe" (Kahn-Moret) (H.M.V. Record EA402).
 8.51: Recitals—Mr. C. Russell Smith, (a) "Half Way Doin's" (Russell); (b) "The Men That Don't Fit In" (Service).
 9.0 : Weather report.
 9.2: Intermezzo—Band, "Soldiers' Chorus" ("Faust") (Gounod).
 9.10: Bass solo—Br. A. G. Cooke, "Nirvana" (Adams).
 9.14: Humorous song—Will Fyffe, "I Belong to Glasgow" (Fyffe) (Columbia Record 961).
 9.17: Valse—Band, "Tout Pour Toi" (Pecorini).
 9.24: Mezzo-soprano solo, Miss Evelyn Shepherd, "The Nightingale" (Kjerney).
 9.28: Waltzes—Rio Marimba Orchestra, (a) "My Isle of Golden Dreams" (Blaufluss); (b) "Three O'Clock in the Morning" (Robliedo) (Columbia Record 02685).
 9.35: Overture—Band, "Zitella" (Hume).
 9.45: Male quartet—The Rounders, "Was It a Dream?" (Coslow) (H.M.V. Record EA402).
 9.48: Recital—Mr. C. Russell Smith, "Clancey of the Overflow" (Paterson).
 9.55: March—Band, "Love and Honour" (Hume).
 10.0 : Close down.

Wednesday, August 14

1YA, AUCKLAND (900 KILOCYCLES).—WEDNESDAY, AUGUST 14.

- 12.30: Relay of community singing from the Town Hall.
 1.30: Close down.
 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 Uncle Tom.
 7.0 : News and market reports.
 7.40: Talk—Mr. Norman Kerr, "Physical Culture."
 8.0 : Chimes.
 8.1 : Studio concert by the Auckland Artillery Band, and assisting artists:
 March—Band, "Simplicity" (Hume).
 Overture—Band, "Tancredi" (Rossini).
 8.11: Vocal quartet—Olympians, "Echoes" (Sullivan).
 8.15: Waltz—Symphony Orchestra, "L'Estudiantina" (Waldteufel) (Columbia Record 02560).
 8.19: Baritone solo—Mr. H. Barry Coney, "Young Deitrich" (Henschel).
 8.23: Cornet and band—"The Triplets" (Smith).
 8.29: Soprano solo—Miss D. Youd, "A Spirit Flower" (Tipton).
 8.33: Novelty—Band, "Three Blind Mice" (Douglas).
 8.40: Tenor solo—Mr. L. Harvey, "Macushla" (MacMurrrough).
 8.44: Recital—Miss G. Gamman, "The Banishment of Rosalind" (Shakespeare).
 8.49: Cornet—Bandsman C. F. Thompson, "The Lost Chord" (Sullivan).
 8.54: Contralto solo—Miss Martha Williamson, "Thank God For a Garden" (Del Riego).
 8.58: Weather report.
 9.0 : Waltz—Symphony Orchestra, "Espana Waltz" (Waldteufel) (Columbia Record 02560).
 9.9 : Baritone solo—Mr. Barry Coney, "Grendon Fair" (Marie).
 9.9 : Concerted—Light Opera Company, Gems from "Lilac Time". (Schubert-Clutsam) (H.M.V. Record C1450).
 9.17: Soprano solo—Miss D. Youd, "Garden of Happiness" (Wood).
 9.21: Waltz—Band, "Il Bacio" (Arditi).
 9.29: Recitals—Miss G. Gamman (a) "The Unsolved Problem" (anon.); (b) "England's Emblem" (Jefferson).
 9.37: Mandolin band—Circolo Mandolinistrio, (a) "Torna A Surriento" (de Curtis); (b) "Stephanie Gavotte" (Czibulka) (Columbia Record 01210).
 9.43: Tenor solo—Mr. L. Harvey, "Gingham Gown" (Penn).
 9.47: Tone poem—Band, "The Unfinished Symphony" (Schubert).
 9.57: Contralto solo—Miss Martha Williamson, "My Ain Wee Hoose" (Munro).
 10.0 : March—Band, "Rebecca" (Pettie).
 10.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES).—WEDNESDAY, AUGUST 14.

SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES).—WEDNESDAY, AUGUST 14

- 3.0 : Afternoon session—selected studio items.
 4.25: Sports results to hand
 4.30: Close down.

- 6.0 : Children's session, conducted by Mother Hubbard and Uncle Frank.
 7.0 : News session.
 8.0 : Chimes.
 8.1 : Overture—Band of H.M. Coldstream Guards, "H.M.S. Pinafore" (Sullivan) (Zonophone C1283).
 8.9 : Mezzo-soprano solos—Miss L. Merle Miller, (a) "To the Forest" (Tschalkowsky); (b) "The Page's Air—Nobil Signori Salute" ("Les Huguenots") (Meyerbeer).
 8.15: Pianoforte solo—Miss A. Harley Slack, "Rhapsodie in B Minor" (Brahms).
 8.21: Tenor solos—Mr. Harold Prescott, (a) "Lord Randall" (Scott); (b) "La Donna E Mobile" ("Rigoletto") (Verdi).
 8.27: Concerted—Light Opera Company, Gems from "Cavalleria Rusticana" (Mascagni) (H.M.V. Record EB27).
 8.30: Orchestral—Studio Orchestra, under the conductorship of Mr. Harold Beck, (a) "Waltz in D" (Moszkowsky); (b) "Drink to Me Only With Thine Eyes" (Quilter); (c) "Old South" (Zamecnik).
 8.40: Humorous recital—Mr. Hiram Dunford, "Kissing Cup's Race" (MS).
 8.46: Soprano solos—Miss Eileen Grennell, (a) "The Cry of Rachel" (Salter); (b) "The Old Refrain" (Kreisler).
 8.51: Violin solo—Toscha Seidel, "Hungarian Dance, No. 1" (Brahms-Joachim) (Columbia Record 09504).
 8.55: Baritone solo—Mr. Fred. C. Penfold, "The Bandolero" (Stewart).
 8.59: Weather report.
 9.4 : Orchestral—Studio Orchestra, "Coriolan Overture" (Beethoven).
 9.12: Mezzo-soprano solos—Miss L. Merle Miller, (a) "Heart's Base" (Willaby); (b) "Still As The Night" (Bohm).
 9.16: Pianoforte solos—Miss A. Harley Slack, (a) "Evening Whispers" (Palmgren); (b) "Gopak" (Moussorgsky).
 9.20: Tenor solos—Mr. Harold Prescott, (a) "Awake, Beloved" (Edwards); (b) "Sally in Our Alley" (Carey).
 9.25: Male choir—Male Voice Choir of Vienna, "Die Nacht" (Schubert) (Columbia Record 02836).
 9.29: Orchestral—Studio Orchestra, "Nell Gwynne Dances" (German).
 9.41: Soprano solo—Miss Eileen Grennell, "Nightingale of June" (Sander-son).
 9.45: Humorous recital—Mr. Hiram Dunford, "The Groom's Story" (Conan Doyle).
 9.50: Violin solo—Toscha Seidel, "Slavonic Dance, No. 2, in E Minor" (Dvorak, arrgd. Kreisler) (Columbia Record 09504).
 9.54: Baritone solos—Mr. F. C. Penfold, (a) "For You Alone" (Geehl); (b) "To-morrow" (Keel).
 10.1 : Orchestral—Philadelphia Symphony Orchestra, "Nocturne No. 2—Fetes" (Debussy) (H.M.V. Record E507).
 10.5 : Close down.

4YA, DUNEDIN (650 KILOCYCLES).—WEDNESDAY, AUGUST 14.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0 : Children's session, conducted by Aunt Anita.
 7.0 : News session.



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WELLINGTON.

- 8.0 : Town Hall chimes.
 8.1 : Entertainment by the "Four Aces" Concert Party.
 9.30 : Programme of dance music relayed from the Bank of New Zealand Ball, Pioneer Hall.
 11.0 : Close down.

Thursday, August 15

1YA, AUCKLAND (900 KILOCYCLES).—THURSDAY, AUGUST 15.

- 3.0 : Presentation of items by Messrs. Lewis Eady, Ltd.
 3.30 : Talk—Miss Edith Sutherland, "Homecrafts."
 3.45 : Further items by Messrs. Lewis Eady, Ltd.
 4.25 : Sports results to hand.
 4.30 : Close down.
 6.0 : Children's session, conducted by Peter Pan.
 7.0 : News and market reports.
 7.40 : Talk—Mr. J. P. Stevenson, "New Zealand Manufactures—Sauces and "Pickles."
 8.0 : Chimes.
 8.1 : Overture—Studio Orchestra, "Scarlet Crow" (Bennett).
 8.10 : Vocal trio and soprano solo—Celeste Trio, (a) "Just a Little Ring" ("Lilac Time") (Clutsam); (b) "There's A House" (Clutsam).
 8.16 : Humour—Mr. T. T. Garland, "Merry Moments."
 8.21 : Instrumental—Studio Orchestra, "Plantation Songs" (Clutsam).
 8.31 : Baritone solo—Mr. Reg. Richards, "Fairy Tales of Ireland" (Coates).
 8.35 : Vocal trios and mezzo-soprano solo—Celeste Trio, Excerpts from "Westward Ho" (Rockel); (a) trio, "Away with a Shout"; (b) mezzo-soprano solo, "Along the Sunny Shingles" (c) trio, "Sing, Let the Merry Cymbals Ring."
 8.44 : Flute solo—Mr. A. A. Dunn, "Andante and Polonaise" (Briccialdi).
 8.49 : Recital—Mr. T. T. Garland, "A Fireside Chat."
 8.55 : Instrumental—Studio Orchestra, (a) "I Love You Truly" (Bond); (b) "Just A' Wearyin' for You" (Bond); (c) "A Perfect Day" (Bond).
 9.4 : Weather report.
 9.6 : Baritone solos—Mr. Reg. Richards, (a) "Friend" (Davies); (b) "Youth Has a Happy Tread" (Lohr).
 9.13 : Vocal trio—Celeste Trio, (a) Excerpts from "Westward Ho" (Rockel); (a) duet, "So Drearly, So Wearily"; (b) trio, "Father of Light, of Love"; (c) contralto solo, "Lullaby"; (d) trio, "Be Not Afraid."
 9.23 : Instrumental—Orchestra, "Chinese Honeymoon" (Talbot).
 9.31 : "Brunswick" Dance Programme:
 Vocal duet—Frank and James McCravy "Sweet Adeline" (Gerard) (Brunswick 4335).
 Foxtrot—Colonial Club Orchestra, "Florella" (Bryan) (Brunswick 4312).
 Foxtrot with vocal chorus—Swanee Syncopators, "The One That I Love, Loves Me" (Turk) (Brunswick 4329).
 Waltz with whistling and vocal chorus—The Eight Radio Stars, "Always In My Heart" (Drew) (Brunswick 4312).
 9.42 : Monologue with fiddle—"Dad" Williams, "The Dutchman's Serenade" (Williams).
 Fiddle and guitar—"Dad" Williams, "Money Musk" (trdtl.), (Brunswick 306).
 Foxtrot with whistling and vocal chorus—The Eight Radio Stars, "Under the Stars of Havana" (Coleman) (Brunswick 4311).
 Foxtrot with vocal trio—Swanee Syncopators, "Honest" (Tucker) (Brunswick 4329).
 Foxtrot with vocal chorus—Eight Radio Stars, "A Happy Ending" (Brown) (Brunswick 4311).
 9.37 : Vocal novelty—Al. Bernard, "The Preacher and the Bear" (Arzonja) (Brunswick 312).
 Foxtrot with vocal chorus—The Captivators, "Building a Nest for Mary" (Rose) (Brunswick 4321).
 Foxtrot with vocal chorus—Los Angeles Biltmore Hotel Orchestra, "I'm Walking Around in a Dream" (Lewis) (Brunswick 4337).
 Waltz with vocal chorus—Copley Plaza Orchestra, "Pagan Love Song" (Freed) (Brunswick 4321).
 10.9 : Orchestra and chorus—Blue Ridge Ramblers, (a) "Who Broke the Lock on the Hen-house Door?" (Smith); (b) "She'll Be Coming 'Round the Mountain When She Comes" (trdtl.) (Brunswick 310).
 Foxtrot with vocal chorus—Los Angeles Biltmore Hotel Orchestra, "Until You Get Somebody Else" (Kahn) (Brunswick 4337).
 Foxtrot with vocal chorus—Arnold Johnson and his Orchestra, "Break-away" (Cottler) (Brunswick 4348).
 10.21 : Novelty with vocal and instrumental effects—Arnold Johnson's Orchestra, "Radio Impressions" (Johnson) (Brunswick 4358).
 Foxtrot with vocal chorus—Arnold Johnson's Orchestra, "Big City Blues" (Cottler) (Brunswick 4348).
 Waltz—Municipal Band, "Cuckoo Waltz" (Brunswick 4353).
 Waltz with vocal chorus—Regent Club Orchestra, "Just An Old Love Affair" (Kahn) (Brunswick 4280).
 10.33 : Male quartet—Ritz Quartet, "Come West, Little Girl, Come West" (Kahn) (Brunswick 4328).
 Foxtrot with vocal chorus—Geo. Belshaw's K.F.A.B. Orchestra, "Sweet Liza" (Hirsch) (Brunswick 4365).

- 10.39 : Fiddle and guitar—Kessinger Bros., "Richmond Polka" (trdtl.) (Brunswick 309).
 Foxtrot with vocal chorus—Geo. Belshaw and his K.F.A.B. Orchestra, "You'd Recognise My Baby" (Jacoby) (Brunswick 4365).
 Foxtrot with vocal chorus—Jesse Stafford's Orchestra, "All A-twitter" (Whiting) (Brunswick 4250).
 10.48 : Male quartet—Ritz Quartet, "I'm Bringing a Red Red Rose" (Kahn) (Brunswick 4328).
 Fiddle and guitar—Kessinger Bros., "Mississippi Sawyer" (trdtl.), (Brunswick 309).
 Foxtrot with vocal chorus—Jesse Stafford's Orchestra, "I Wanna Go Places, and Do Things" (Writing) (Brunswick 4250).
 Foxtrot—Rhythm Aces, "Ace of Rhythms" (Smith) (Brunswick 7071).
 11.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES).—THURSDAY, AUGUST, 15.

- 3 p.m. : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 4.30 and 4.55 : Sports results to hand.
 4.55 : Close down.
 5.0 : Children's session conducted by Uncle Len.
 6.0 : Dinner session:
 Band—Bande Garde Republicaine de France, "Carmen" Entr'acte (Bizet) (Columbia Record 02747).
 Tenor solo—Alfred O'Shea, "The Old Refrain" (Kreisler) (Columbia Record 03614).
 6.13 : Tacet.
 6.15 : Selection—H.M. Coldstream Guards, "Iolanthe" (Sullivan) (H.M.V. Record C1368).
 Tenor solo—Alfred O'Shea, "Lillie of Lorraine" (Gray) (Columbia Record 03614).
 'Cello solo—W. H. Squire, "Silver Threads Among the Gold" (arrgd. Squire) (Columbia Record 04178).
 6.26 : Tacet.
 6.30 : Accordion solo—P. Frosini, "Silver Moon" Waltz (Frosini) (Zonophone Record EE129).
 Saxophone duet—Rudy Wiedoeft and Arnold Brilhart, "The Swallow" (Zonophone Record EE129).
 Baritone solo—Alexander Carmichael, "Turn Ye to Me" (arrgd. Moffatt) (Columbia Record 0139).
 6.41 : Tacet.
 6.45 : Solo and chorus—Zonophone Light Opera Company, Vocal Gems from "The Mikado" (Sullivan) (Zonophone Record A344).
 Waltz—Edith Lorand Orchestra, "Vienna Waltz" (Drdla) (Parlophone Record E10531).
 6.56 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecture—Mr. A. E. Wilson, Tourists Dept., "Tourist and Holiday Resorts."
 8.0 : Chimes of the G.P.O. clock.
 Studio concert by the Wellington Artillery Band, under the conductorship of Capt. T. Herd, V.D., and assisting artists:
 8.1 : March—Band, "The Brotherhood" (Brown).
 Overture—Band, "Diamond Star" (Greenwood).
 8.11 : Mezzo-soprano solo—Mrs. Alma Millward, "June is in My Heart" (Vaughan).
 8.15 : Pianoforte solo—Mr. Norman Izett, "Valse in A Flat" (Chopin).
 8.21 : Baritone solo—Mr. Wilbur Davies, "The Sea Road" (Haydn Wood).
 8.25 : Cornet solo with band accompaniment—Bandsman W. Sneddon, "O Promise Me" (De Koven).
 One-step—Band, "Get Out and Get Under" (arrgd. Hume).
 8.32 : Contralto solo—Miss Rene Goyder, "Not Understood" (Houghton).
 8.36 : Humour—Will Kings, "Bertram Addresses the Tenants" (Rutherford) (H.M.V. Record C1340).
 Waltz—Dajos Bela Orchestra, "You, Only You" (Arnold) (Parlophone Record E10592).
 8.44 : Tenor solo—Mr. Harry Phipps, "By the Waters" (Adams).
 8.48 : Humorous fantasy—Band, "Pop Goes the Weasel" (arrgd. Hawkins).
 Waltz—Band, "Queen of Emeralds" (Greenwood).
 8.58 : Weather report.
 9.0 : Lecture—The Bishop of Aotea-Roa, "Maori Legends."
 9.15 : Grand opera selection—Band, "Don Giovanni" (Mozart).
 9.23 : Mezzo-soprano solos—Mrs. Alma Millward, (a) "The Birth of Morn" (Leoni); (b) "Salaam" (Long).
 9.29 : Baritone solos—Mr. Wilbur Davies, (a) "Harlequin" (Sanderson); (b) "Spanish Gold" (Fisher).
 9.36 : Humour—Will Kings, "Bertram at the Rotary Dinner" (Rutherford) (H.M.V. Record C1340).
 9.40 : Descriptive fantasia—Band, "A Darcy's Dreamland" (arrgd. Bidgood).
 Cornet duet with band accompaniment—Bandsmen Sneddon and Houchen, "Besses o' the Barn" (Corrie).
 9.50 : Contralto solos—Miss Rene Goyder, (a) "Down Here" (Brahe); (b) "I Am Longing for the Spring" (Morris).
 9.56 : Tenor solos—Mr. Harry Phipps, (a) "Nightfall at Sea"; (b) "If We Sailed Away" ("Sea Echoes") (Montague Phillips).
 10.2 : March—Band, "Defenders" (Moorhouse).
 10.6 : Close down.
 3YA, CHRISTCHURCH (980 KILOCYCLES).—THURSDAY, AUGUST 15.
 3.0 : Afternoon session—selected studio items.
 4.25 : Sports results to hand.
 4.30 : Close down.

- 6.0 : Children's session, conducted by Uncle John.
 7.0 : News session.
 7.30 : Talk, arranged by 3YA Primary Productions Committee—"Seasonable Spraying Work," by Mr. S. Frew of the Orchard Division, Department of Agriculture.
 8.0 : Chimes.
 8.1 : Overture—rebroadcast of 2YA, Wellington.
 8.9 : Tenor solo—Mr. E. Rogers, "Serenade" (Schubert).
 8.13 : Violin solo—Miss Irene Morris, "Larghetto" (Handel-Hubey).
 8.17 : Vocal quartet—Grand Opera Quartet, "Fly, Singing Birds, Fly" (Elgar).
 8.21 : Concerted—Royal Philharmonic Orchestra, "Götterdämmerung" (Wagner) (Columbia Record L1636).
 8.29 : Tenor and baritone duet—Grand Opera Duo, "Flow Gently, Deva" (Parry).
 7.30 : Talk, arranged by 8YA Primary Productions Committee—"Seasonable Spraying Work," by Mr. S. Frew, of the Orchard Division, Department of Agriculture.
 8.33 : Chorus—Light Opera Company, Gems from "Pagliacci" (Leoncavallo) (H.M.V. Record EB27).
 8.27 : Instrumental—Christchurch Broadcasting Trio, "Trio in D Minor—Molto Allegro Agitato" (Mendelssohn).
 8.43 : Mezzo-contralto solo, Miss Mavis Spiller, (a) "Come, for It Is June" (Forster); (b) "Love Dreams" (Robinson).
 8.52 : Orchestral—Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier) (H.M.V. Record B2903).
 8.58 : Bass solo, followed by soprano and contralto duet—Mr. Jas. Filer and Grand Opera Duo, (a) "King of the Vasty Deep" (Withers); (b) "On Wings of Song" (Mendelssohn).
 9.4 : Weather report.
 9.9 : Vocal quartet—Grand Opera Quartet, "A Hundred Pipers and A" (Scottish tradl.).
 9.13 : Relay from Civic Theatre of music by the De Luxe Orchestra (guest conductor, Mr. Gladstone Hill).
 9.21 : Tenor solo—Mr. E. Rogers, "Who is Sylvia?" (Schubert).
 9.25 : Violin solo—Miss Irene Morris, "Minuet" (Mozart).
 9.29 : Vocal quartet—Opera Quartet, "Departure" (Mendelssohn).
 9.33 : Mezzo-contralto solo—Miss Mavis Spiller, "Song of Florian" (Godard).
 9.37 : Soprano solo with chorus—Florence Austral, "The Flying Dutchman—Senta's Ballad" (Wagner) (H.M.V. Record D1517).
 9.41 : Instrumental—Christchurch Broadcasting Trio, (a) "Chanson Polonaise" (Wieniawski); (b) "Humoresque" (Widor).
 9.49 : Bass solo—Mr. James Filer, "O, But to Hear That Voice" (Tschalkowsky).
 9.53 : Vocal quartet—Grand Opera Quartet, "How Sweet the Moonlight Sleeps" (Leslie).
 9.57 : Selection—Band of H.M. Grenadier Guards, "Der Meistersingers" (Wagner) (Columbia 02697).
 10.5 : Close down.

4YA, DUNEDIN (650 KILOCYCLES).—THURSDAY, AUGUST 15.
 SILENT DAY.

Friday, August 16

1YA, AUCKLAND (900 KILOCYCLES).—FRIDAY, AUGUST 16.

- 8.0 : 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.
 7.40 : Talk—Dr. E. B. Gunson, "Open Air Schools."
 8.0 : Chimes.
 8.1 : Relay of concert arranged by Messrs. Lewis Eady, Ltd.
 8.30 : Vocal quartet—Clarion Quartet, "In the Rain" (Parks).
 8.34 : Orchestral—Victor Symphony Orchestra, "Kamennoi-Ostrow" (Rubinstein) (H.M.V. Record EB10).
 8.38 : Bass solo—Mr. Duncan Black, "The Night Watchman" (Adams).
 8.42 : Chorus and orchestra—Berlin State Opera chorus and orchestra, "Aida Triumphant March" (Verdi) (Parlophone Record R20018).
 8.50 : Instrumental—Studio Trio, "Trio, Op. 68—Andante Expressivo" (Mendelssohn).
 9.0 : Weather report.
 9.2 : Vocal duet—Miss B. Smith and Mr. J. Simpson, "O Lovely Night" (Landon Ronald).
 9.6 : Talk—Mr. A. B. Chappell, Topical Talk.
 9.21 : Soprano solo—Miss A. McGruer.
 9.25 : Cello solo—Miss Molly Wright, "Melodie" (Glazounov).
 9.29 : Tenor solo—Mr. J. Simpson, "Where'er You Walk" (Handel).
 9.33 : Male choir—Don Cossacks, "Three Folk Songs" (arrgd. Dobrowen) (Columbia Record 02712).
 9.37 : Instrumental—Studio Trio, "Scherzo—Trio Op. 68" (Mendelssohn).
 9.45 : Vocal duet—Miss A. McGruer and Mr. D. Black, "Life's Dream is O'er" (Ascher).
 9.50 : Orchestral—Victor Symphony Orchestra, "Liebestraume" (Liszt) (H.M.V. Record EB10).

- 9.54 : Contralto solo—Miss B. Smith, "The Asra" (Rubinstein).
 9.58 : Vocal quartet—Clarion Quartet, "Dreaming" (Schumann).
 10.2 : Close down.

2YA, WELLINGTON (720 KILOCYCLES).—FRIDAY, AUGUST 16.

- 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.
 4.0 : Studio items.
 4.30 and 4.50 : Sports results to hand.
 4.55 : Close down.
 5.0 : Children's session, conducted by Big Brother Jack.
 6.0 : Dinner session:
 Orchestral—Budapest Philharmonic Orchestra, "Hungarian Rhapsody No. 1, in F" (Liszt) (Columbia Records 02728/9).
 6.12 : Tacet.
 6.15 : Fantasia—Edith Lorand Orchestra, "Cavalleria Rusticana" (Mascagni) (Parlophone Record E10569).
 Baritone solo—Fraser Gange, "On the Road to Mandalay" (Speaks) (Columbia Record 02573).
 6.26 : Tacet.
 6.30 : Fantasia—Dajos Bela Orchestra, "La Traviata" (Verdi) (Parlophone Record A4027).
 Baritone solo—Fraser Gange, "The Two Grenadiers" (Schumann) (Columbia Record 02573).
 6.41 : Tacet.
 6.45 : Vocal duet—Hardy Williamson and Robt. Rowe, "The Flowers that Bloom in the Spring" (Sullivan) (Parlophone Record A2544).
 Baritone solo—Robt. Rowe, "Rising Early in the Morning" (Sullivan) (Parlophone Record A2544).
 Waltz—Dajos Bela Orchestra, "Dancing Demoiselle" (Fall) (Parlophone Record A4008).
 6.56 : Tacet.
 7.0 : News session, market reports, and sports results.
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Peter Schmolli" (Weber).
 8.9 : Soprano solo—Mrs. W. Fraser Morrish, "Senta's Ballad" ("The Flying Dutchman") (Wagner).
 8.13 : Pianoforte solo—Miss Glen Carty, "Toccata" (Saint-Saens).
 8.19 : Baritone solo—Mr. Val Jones, "The Yeomen of England" ("Merrie England") (German).
 8.23 : Humour—Mr. Albert Davey, "A Touch of Sun" (Thomas).
 8.30 : Selection—Orchestra, "Faust" (Gounod).
 8.38 : Contralto solo—Mrs. T. Treacy, "Romance" (Thanks Unto Thee, Angelic Voice) ("La Gioconda") (Ponchielli).
 8.42 : Violin solo—Efrem Zimbalist, "Liebeslied" (Kreisler) (Columbia Record 04221).
 8.46 : Tenor solo—Mr. Oliver Foote, "Let Me Like a Soldier Fall" ("Mariana") (Wallace).
 8.50 : Instrumental—Orchestra, "The Arcadians" Selection (Monckton).
 8.58 : Weather report.
 9.0 : Soprano solos—Mrs. W. Fraser Morrish, (a) "Song of India" ("Sadko") (Rimsky-Korsakov); (b) "Solweig's Song" ("Peer Gynt" Suite) (Grieg).
 9.7 : Baritone solos—Mr. Val Jones, (a) "The Blue Room" (Rodgers) ("The Girl Friend"); (b) "The Girl Friend" (Rodgers).
 9.14 : Instrumental—Orchestra, "Genéviève de Brabant" (Offenbach).
 9.22 : Recital—Mr. Albert Davey, "The Dandy Fifth."
 9.27 : Contralto solo—Mrs. T. Treacy, "Ave Maria" ("Cavalleria Rusticana") (Mascagni).
 9.31 : Tenor solo—Mr. Oliver Foote, "Moonbeams" ("Red Mill") (Herbert).
 9.35 : Ballet music—Orchestra, "Carmen—Ballet Music" (Bizet).
 9.40 : Presentation of the opera "Carmen" (Bizet)—Act 3—Third Instalment (Columbia Records 9535-39).
 10.2 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—FRIDAY, AUGUST 16.

- 8.0 : Afternoon session—Selected gramophone items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 6.0 : Children's session, conducted by "Storyman."
 7.0 : News session.
 7.30 : Talk—Mr. F. E. Jones, "Aims and Objects of Chambers of Commerce."
 8.0 : Chimes.
 8.1 : Overture—Rebroadcast of 2YA, Wellington.
 8.9 : Vocal quartet—Valencia Quartet, "When the Heart is Young" (Buck).
 Soprano solo—Mrs. Lucy O'Brien, "Love's a Merchant" (Carew).
 8.14 : Cello solo—Mr. Harold Beck, "Adagio" from "Concerto" (Elgar).
 8.18 : Tenor solo—Mr. T. G. Rogers, "Come Into the Garden, Maud" (Balfe).
 8.22 : Sea shanties—John Goss and Cathedral Male Quartet, (a) "Sally Brown"; (b) "Hanging Johnny"; (c) "Whisky Johnny" (Arrgd. Terry) (H.M.V. Record B2831).
 8.26 : Instrumental—Christchurch Broadcasting Trio, (a) "Minuet" (Boccherini); (b) "Scherzo" (Schumann).
 8.34 : Contralto solo—Miss Mary Taylor, "At Grendon Fair" (Paul Maistre).
 8.38 : Sketches—The Chatterboxes, (a) "Just After Dinner"; (b) "The Love Test"; (c) "Cupid Calling" (West and Hyton).

- 8.50: Sea shanties—John Goss and Cathedral Quartet, (a) "The Sailor Likes His Bottle O"; (b) "Clear the Track, Let the Bullgine Run" (Arrgd. Terry) (H.M.V. Record B2831).
- 8.54: Baritone solo—Mr. E. J. Johnson, "Hats Off to the Stoker" (Arundale)
- 8.58: Weather report.
- Relay of Amateur Boxing Tourney from Caledonian Hall (under the auspices of the Christchurch Amateur Boxing and Sports Club).
- Instrumental—Christchurch Broadcasting Trio, (a) "Minuet" (Shield); (b) "Andante Scherzo" (Mathias).
- Tenor solo, followed by vocal quartet—Mr. T. G. Rogers and Valencia Quartet, (a) "Good Company" (Adams); (b) "The Village Blacksmith" (Weiss).
- 'Cello solo—Mr. Harold Beck, "Le Cygne" (The Swan), (Saint Saens).
- More sketches—The Chatterboxes, (a) "Cohen on the Wireless"; (b) "Cohen's First Attempt at Broadcasting" (Hayman).
- Baritone solo—Mr. E. J. Johnson, "Harlequin" (Sanderson).
- Dance programme until 11 p.m.
- 11.0: Close down.
- (Note: Owing to the relay of the Boxing Tournament, this programme is subject to alteration).

4YA, DUNEDIN (650 KILOCYCLES).—FRIDAY, AUGUST 16

- 3.0: Town Hall chimes.
- 3.1: Selected gramophone items.
- 3.15: Talk on "Fashions" by Miss Buccleuch, of the D.S.A., Ltd.
- 3.30: Studio items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 6.0: Children's session, conducted by Aunt Sheila and Big Brother Bill.
- 8.0: Town Hall chimes.
- 8.1: Overture—National Symphony Orchestra, "Orpheus in Hades" (Offenbach) (Zonophone EF16).
- 8.9: Soprano solos—Miss Olga Wynne, (a) "A Fair Good Morn" (Nevin); (b) "Sleep, Little Tulip" (Nevin).
- 8.16: Instrumental—4YA Broadcasting Trio, "Adagio" (Beethoven).
- 8.22: Bass solos—Mr. E. G. Bond, (a) "Big Ben" (Pontet); (b) "You Along o' Me" (Sanderson).
- 8.29: Violin solo—Mr. Frank Parsons, "Air on G String" (Bach).
- 8.33: Recital—Miss Joyce Hould, "Public Conversations" (anon.).
- 8.40: Grand organ solo—G. T. Pattman, "Humoresque" (Dvorak) (Columbia Record 02686).
- 8.44: Contralto solo—Miss Helen Roy, "Lament of Isis" (Bantock).
- 8.51: Male quartet—Prudhoe Gleemen, "Border Ballad" (Maunder) (Regal Record G20429).
- 8.54: Pianoforte solo—Mrs. Ernest Drake, "Nocturne in F Sharp Major" (Chopin).
- 9.0: Weather report.
- 9.1: Relay of orchestral entr'acte from the Ritz.
- 9.11: Soprano solo—Miss Olga Wynne, "Serenade" (Gounod).
- 9.15: Mandoline solo—Mario de Pietro, "Concert Mazurka" (Calace) (H.M.V. Record B2820).
- 9.18: Instrumental—4YA Broadcasting Trio, "Trio in G Major" (Haydn).
- 9.23: Bass solo—Mr. E. G. Bond, "Rolling Down to Rio" (German).
- 9.27: Grand organ solo—G. T. Pattman, "Prelude in C Sharp Minor" (Rachmaninoff) (Columbia Record 02686).
- 9.31: Recitals—Miss Joyce Hould, (a) "Greetings" (anon.); (b) "How McDougall Topped the Score" (Locke).
- 9.38: 'Cello solo—Mr. P. J. Palmer, "Elfentanz" (Jenkinson).
- 9.43: Contralto solos—Miss Helen Roy, (a) "Sunday" (Brahms); (b) "Serenade" (Brahms).
- 9.47: Male concerted—Prudhoe Gleemen, "Soldier's Farewell" (Rinkel) (Regal Record G20429).
- 9.50: Relay of orchestral music from the Ritz.
- 10.0: Close down.

Saturday, August 17

1YA, AUCKLAND (900 KILOCYCLES).—SATURDAY, AUGUST 17.

- 2.50: Relay description of Rugby football match from Eden Park.
- 4.30 (approx.): Close down.
- 6.0: Children's session, conducted by Cinderella.
- 7.0: News and market reports.
- 7.30: Sports results.
- 7.40: Talk—Mr. Dale, "Chrysanthemums."
- 8.0: Chimes.
- 8.1: Selection—Studio Orchestra, "Rebel Maid" (Phillips).
- 8.11: Contralto solo—Miss Nellie Lingard, "The Glory of the Young Green" (Lohr).
- 8.15: Waltz—Eddie Thomas' Collegians, "Beautiful Ohio" (Earl) (Columbia Record 02651).
- 8.19: Novelty—Mr. and Mrs. Wilfred Scott, "Musical Moments."
- 8.34: Mandoline and piano—Marie de Pietro, "Concert Mazurka" (Calace) (H.M.V. Record B2820).
- 8.38: Dance suite—Studio Orchestra, "Tom Jones" Dances: (German) 1. Morris Dance; 2. Gavotte; 3. Jig.
- 8.48: Humour—Mr. J. F. Montague, (a) "Howlers"; (b) "All Bnt."
- 8.58: Weather report.

- 9.0: Baritone and chorus—Paul Robeson and Paul Whiteman's Orchestra, (a) "Selection from 'The Show Boat'" (Kern); (b) "Ol' Man River" (H.M.V. Record C1505).
- 9.8: Contralto solos—Miss N. Lingard, (a) "The Three Ravens" (Old English); (b) "Serenade" (Gounod).
- 9.15: Instrumental—Studio Orchestra, "Where the Citrons Bloom" (Strauss).
- 9.23: Novelty—Mr. and Mrs. Scott, "Musical Moments."
- 9.38: Selection—Columbia Symphony Orchestra, "March of the Toys" (Herbert) (Columbia Record 02651).
- 9.42: Humour—Mr. J. F. Montague, "Ellen McJones—Aberdeen."
- 9.50: Instrumental—Studio Orchestra, "March Indienne" (Thiere).
- 9.58: "Brunswick" Dance Programme:
- Novelty foxtrot—Jesse Stafford's Orchestra, "Kewpie" (Rose) (Brunswick Record 4249).
- Foxtrot with vocal chorus—Jesse Stafford's Orchestra, "A Precious Little Thing Called Love" (Davis) (Brunswick Record 4249).
- Waltz with vocal chorus—Hal Kemp's Orchestra, "One Kiss" (Romberg) (Brunswick Record 4216).
- Pianoforte solo (waltz)—Rosita Renard, "Blue Danube" (Strauss) (Brunswick Record 4248).
- 10.16: Vocal duet—Francis Luther and Jack Parker, "Carolina Moon" (Davis) (Brunswick Record 4202).
- Foxtrot with vocal chorus—Brunswick Orchestra, "Lover, Come Back to Me" (Romberg) (Brunswick Record 4216).
- Foxtrot with vocal chorus—Gerunovich's Roof Garden Orchestra, "I'm Telling You" (Rose) (Brunswick Record 4190).
- Foxtrot with vocal chorus—Joe Rine's Orchestra, "Sweetheart of All My Dreams" (Fitch) (Brunswick Record 4199).
- 10.28: Soprano with string quartet and harp—Marie Tiffany, "Little Grey Home in the West" (Wilmot) (Brunswick Record 15197).
- Foxtrot with vocal chorus—Gerunovich's Roof Garden Orchestra, "I Found You Out When I Found You In" (Ponce) (Brunswick Record 4190).
- Novelty foxtrot—Joe Rine's Orchestra, "Fashionette" (Glogau), (Brunswick Record 4199).
- Vocal duet with novelty accompaniment—Frank Luther and Carson Robison, "Wednesday Night Waltz" (Williams) (Brunswick Record 297).
- 10.37: Vocal duet—Francis Luther and Carson Robison, "You Can't Take My Memories From Me" (Davis) (Brunswick Record 4202).
- Foxtrot with vocal chorus—Ray Miller's Orchestra, "No One in the World But You" (Robison) (Brunswick Record 4194).
- Foxtrot—Brunswick Orchestra, "Dardanella" (Fisher) (Brunswick Record 4218).
- Waltz with vocal chorus—Regent Club Orchestra, "Poor Punchinello" (Lewis) (Brunswick Record 4206).
- 10.50: Soprano solo—Marie Tiffany, "Pale Moon" (Indian love song) (Logan) (Brunswick Record 15197).
- Foxtrot with vocal chorus—Brunswick Orchestra, "Redskin" (Zamecnick) (Brunswick Record 4218).
- Waltz with vocal chorus—Regent Club Orchestra, "Loneliness" (Pollock) (Brunswick Record 4206).
- 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES).—SATURDAY, AUGUST 17.

- 2.45: Relay description of Rugby football match from Athletic Park.
- 5.0: Children's session, conducted by Uncle Toby and Aunt Gwen.
- 6.0: Dinner session:
- Overture—Grand Symphony Orchestra, "Light Cavalry" (Suppe) (Parlophone Record A4001).
- Baritone solo—Leslie Pearce, "Lucky in Love" (De Sylva) (Parlophone Record A2575).
- 6.12: Tacet.
- 6.15: Selection—Frank Westfield's Orchestra, "Lilac Time" (Schubert-Berte) (Parlophone Record A2543).
- Baritone solo—Leslie Pearce, "The Best Things in Life are Free" (De Sylva) (Parlophone Record A2575).
- Selection—Frank Westfield's Orchestra, "Lilac Time" (Schubert-Berte) (Parlophone Record A2543).
- 6.25: Tacet.
- 6.30: Foxtrots—Piccadilly Band, (a) "Try to Learn to Love" (Coward); (b) "A Room With a View" (Coward) (Columbia Record C1420).
- Vocal duet—Layton and Johnstone, "Blue Grass" (De Sylva) (Columbia Record 01429).
- 6.40: Tacet.
- 6.45: Foxtrots—(a) Ben Selvin's Orchestra, "If You Want the Rainbow" (Rose); (b) The Cavaliers, "I Loved You Then As I Love You Now" (Axt) (Columbia Record 01401).
- Vocal duet—Layton and Johnstone, "Wherever You Are" (Dowling) (Columbia Record 01429).
- 6.55: 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, (a) March, "Castles in Spain" (Ancliffe); (b) waltz, "Il Bacio" (Arditi).
- 8.9: Vocal quartet—Melodie Four, "Every Rustling Tree" (Kohl).
- 8.13: Tenor solo—Mr. Sam Duncan, "Ave Maria" (Gounod).
- 8.17: Steel guitar duo—Messrs. Berthold and Bent, (a) "Till We Meet Again" (Whiting); (b) "Girl of My Dreams" (Clapp).

- 8.24: Ventriloquist—Will Haigh and his pal, Johnny.
 8.34: Instrumental—Orchestra, "Stop Flirting" (Gershwin).
 8.42: Baritone solo—Mr. R. S. Allwright, "Brannigan's Orchestra" (Wells).
 8.46: Humour—Mr. Bert Thompson, (a) "Po-Kee O-Kee Oh!" (Flynn and Butler); (b) "I Want to Be Alone With Mary Brown" (Gilbert).
 8.53: Instrumental—Orchestra, "Under the British Flag" (Kappay).
 9.1: Weather report.
 9.3: Vocal quartet—Melodie Four, "Fishing" (Parks).
 9.7: Steel guitar duo—Messrs. Berthold and Bent, (a) "Old Man Sunshine" (Dixon); (b) "Like a Bird That's on the Wing" (Russell).
 9.14: Popular song—Mr. Bert Thompson, "Tea Time To-morrow" (Long).
 9.18: Instrumental—Orchestra, "The Drummer's Birthday" (Smith).
 Cornet solo with orchestral accompaniment—Mr. W. Sneddon, "The Glory of the Sea" (Sanderson).
 9.26: Tenor solo with violin obligato, "Love Came Calling" (Zamecnik).
 9.30: Soubrette—Mrs. N. R. Lightbody, (a) "Come Out" (Tunbridge); (b) "By the Gay Seaside" (Longstaffe).
 9.38: Saxophone solo—Rudy Wiedoeft, "Valse Mazanette" (Wiedoeft) (Columbia Record 01176).
 9.42: Bass solo—Mr. W. W. Marshall, "Laugh, Clown, Laugh" (Florito).
 9.43: Vocal quartet—Melodie Four, "The Old Brigade."
 9.50: Instrumental—Orchestra, dance novelties.
 10.0: "His Master's Voice" dance programme:
 Baritone solo—Noel Coward, "A Dream of Youth" (Coward) (H.M.V. B2787).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "Because I Know You're Mine" (Derickson) (H.M.V. EA515).
 Foxtrot with vocal refrain—Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Erwin) (H.M.V. EA519).
 10.9: Banjo solo—Mario de Pietro, "Frivolous Joe" (De Pietro) (H.M.V. B2820).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "I Want a Daddy to Cuddle Me" (Ebie) (H.M.V. EA515).
 Foxtrot with vocal refrain—Waring's Pennsylvanians, "That's How I Feel About You" (Davis) (H.M.V. EA516).
 Waltz—Jean Goldkette's Orchestra, "Can You Blame Me?" (Goodwin) (H.M.V. EA519).
 10.21: Baritone solo—Noel Coward, "Lorelei" (Coward) (H.M.V. B2787).
 Foxtrot with vocal refrain—New Mayfair Dance Orchestra, "The Egg Song" (Salisbury) (H.M.V. EA517).
 Foxtrot with vocal refrain—Geo. Olsen's Music, "In a Little Town Called Home, Sweet Home" (Donaldson) (H.M.V. EA516).
 Tango—Rio Grande Tango Band, "The Tile Trot" (Penso) (H.M.V. EA517).
 10.32: Comedian—Frank Crumit, "The Road to Vicksburg" (Crumit) (H.M.V. EA525).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "Broadway Melody" (Freed) (H.M.V. EA525).
 Foxtrot with vocal refrain—Waring's Pennsylvanians, "My Castle in Spain is a Shack in the Lane" (Caesar) (H.M.V. EA523).
 10.42: Mandoline solo—Mario de Pietro, "Concert Mazurka" (Calace) (H.M.V. B2820).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "You Were Meant for Me" (Freed) (H.M.V. EA525).
 Foxtrot with vocal refrain—Geo. Olsen's Music, "Makin' Whoopee!" (Kahn) (H.M.V. EA498).
 10.51: Comedian—Frank Crumit, "The King of Borneo" (Crumit) (H.M.V. EA524).
 Foxtrot with vocal refrain—Geo. Olsen's Music, "Until You Get Somebody Else" (Kahn) (H.M.V. EA498).
 Waltz with vocal refrain—Rudy Vallee and his Connecticut Yankees, "Sweet Suzanne" (Leslie) (H.M.V. EA523).
 11.0: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—SATURDAY, AUGUST 17

- 2.45: Relay description of football match from Lancaster Park.
 4.45 (approx.): Close down.
 6.0: Children's session, conducted by Aunt Pat, Jack Frost and Sunny Jim.
 7.0: News session.
 8.0: Chimes.
 8.1: Rebroadcast of 2YA, Wellington (Vaudeville programme).
 10.0: "His Master's Voice" Dance Programme:
 Orchestral—Piccadilly Orchestra, "My Beloved Gondolier" (Tibor) (H.M.V. Record B2575).
 Orchestral—De Groot and the Piccadilly Orchestra, "If Only I Had You" (Davis) (H.M.V. Record B2713).
 Vocal duet—Maurice and Sydney, "I'm Going Back to Old Nebraska" (Sissile) (Zonophone Record EE117).
 10.10: Chorus with orchestra—Ever-Ready Hour Group, "Down South" (Myddleton) (Zonophone Record EF8).
 Tenor with two pianos—Franklyn Baur, "I'm Away From the World" (Clare) (Zonophone Record EE107).
 Wurlitzer organ solo—Chas. W. Saxby, "Can't You Hear Me Say I Love You" (Derickson) (Zonophone Record 5094).
 10.20: Mixed voices—The Revellers, Gems from "Tip Toes" (Gershwin) (H.M.V. Record C1293).
 Foxtrot—Arcadians Dance Orchestra, "Chilly-Pom-Pom-Pee" (Bryan) (Zonophone Record 5169).

- Foxtrot with vocal refrain—Edwin J. McEnelly's Orchestra, "What Are We Waiting For Now?" (Kortlander) (H.M.V. Record EA322).
 10.29: Concerted—Light Opera Company, Gems from "Sunny" (Kern) (H.M.V. Record C1293).
 Duet with violin, clarinet and piano, Johnny Marvin and E. Smalle, "Mary Ann" (Davis-Silver) (H.M.V. Record EA339).
 Baritone solo—Jack Smith, "The Best Things in Life Are Free" (de Sylva) (H.M.V. Record EA332).
 10.39: Bass solo—Paul Robeson, "Down De Lovers' Lane" (Cook) (H.M.V. Record B2777).
 Violin solo—Fritz Kreisler, "Indian Love Call" (Friml) (H.M.V. Record DA785).
 Wurlitzer organ solo—Jesse Crawford, "My Blue Heaven" (Donaldson) (H.M.V. Record EA284).
 Hawaiian—Hilo Hawaiian Orchestra, "Aloma" (Bowers), (H.M.V. Record EA310).
 10.52: Chorus—Victor Arden, Phil Oham, chorus and orchestra, Selections from "Good News" (de Sylva) (H.M.V. Record EB28).
 Foxtrot with vocal refrain—Victor Salon Orchestra, "Where's My Meyer?" (Wolfe) (H.M.V. Record EA267).
 Orchestral—Victor Salon Orchestra, "The World Is Waiting for the Sunrise" (Lockhart) (H.M.V. Record EA186).
 11.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SATURDAY, AUGUST 17

- 2.45: Relay of senior Rugby football match from Carisbrook Ground.
 4.45: Close down.
 6.0: Children's session, conducted by Uncle George.
 7.0: News session.
 8.0: Relay of 3YA, Christchurch (rebroadcast of 2YA, Wellington—Vaudeville programme).
 10.0: "Brunswick dance programme":
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "He, She, and Me" (Newman) (Brunswick 4253).
 Novelty foxtrot—Joe Rine's Orchestra, "Fashionette" (Glogau) (Brunswick 4199).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "Angry" (Brunies) (Brunswick 4224).
 10.13: Baritone solo—Richard Bonelli, "Luna d'Estate" (Summer Moon) (Tosti-Mazzola) (Brunswick 15198).
 Foxtrot tango with vocal chorus—Colonial Club Orchestra, "Mi Amado" (My Lover) (Lewis) (Brunswick 4241).
 Foxtrot with vocal chorus—The Clevelanders, "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 Venezianna" (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" (trdtl.) (Brunswick 293).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "Monna Vanna" (Sweetheart Sublime) (Brunswick 4186).
 Vocal duet with novelty accompaniment—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 4219).
 10.50: Vocal duet—Lester McFarland and Robt. Gardner, "Go and Leave Me If You Want To" (trdtl.) (Brunswick 293).
 Foxtrots 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.

Sunday, August 18

IYA, AUCKLAND (900 KILOCYCLES).—SUNDAY, AUGUST 18.

- 8.0: 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 of service from Pitt Street Methodist Church:—
 Preacher: Rev. W. Walker.
 Organist: Mr. Bickerton.
 Choirmaster: Mr. W. Leather.
 8.30 (approx): Studio Concert:
 Orchestral—Columbia Symphony Orchestra, "Maritana" overture (Wallace) (Columbia Record 02682).
 Mezzo-soprano solo—Miss Molly Atkinson, "Flower Song" ("Faust") (Gounod).
 Organ solos—Quentin M. Maclean, "The Merchant of Venice" suite (Rosse) 1. Prelude; 2. Intermezzo; 3. Oriental March (Columbia Record 02796).

Recital—Miss Maisie Carte-Lloyd, "A Lonesome Boy."
 Baritone solo—Mr. Roy Stephenson, "Light in Darkness" (Cowen).
 Violin solo—Efrem Zimbalist, "Oriental" (Cue) (Columbia Record 03624).
 Soprano solo—Miss M. Atkinson, "When'er a Snowflake Leaves the Sky" (Lehmann).
 Pianoforte solo—Percy Grainger, "Molly on the Shore" (Grainger) (Columbia Record 03575).
 Recitals—Miss M. Carte-Lloyd, (a) "The Two Bank Notes"; (b) "Broken Toys."
 Baritone solos—Mr. R. Stevenson, (a) "A Song of Surrey" (Lohr); (b) "Youth" (Allitsen).
 Band—H.M. Grenadier Guards, "Wreaths on the Sea" (Carlton) (Columbia Record 01346).

9.45: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, AUGUST 18.

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 Vivian Street Baptist Church:—

Preacher: Rev. F. E. Harry.

Organist: Mr. Chas. Collins.

Choirmaster: Mr. J. R. Samson.

8.15 (approx.): Relay from Grand Opera House of recital by the Port Nicholson Silver Band.

Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, AUGUST 18.

3.0 : Afternoon session—Selected gramophone items.

4.30: Close down.

5.30: Children's song service (children of the Anglican Sunday Schools).

6.15: Hymn chimes from the studio.

6.30: Studio programme:

Contralto solos—Miss Nellie Lowe (a) "One Little Hour" (Sharpe); (b) "When the Stars Were Young" (Rubens).

6.35: Instrumental—Christchurch Broadcasting Trio, "Trio in C Minor"—Allegro Energico con Fuoco" (Mendelssohn).

6.47: Contralto solos—Miss Nellie Lowe, (a) "Rest of the Weary" (Shaw); (b) "Wait" (D'Hardelot).

6.53: Orchestral—Edith Lorand Orchestra, "Liebesfeier" (Weingartner) (Parlophone Record A4040).

7.0: Relay of service from Christchurch Anglican Cathedral:—

Preacher: Archbishop Julius.

Organist and Musical Director: Dr. J. C. Bradshaw.

7.15 (approx.): Rebroadcast of 2YA Wellington (Relay from the Grand Opera of recital by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew).

Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, AUGUST 18.

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 Moray Place Congregational Church:

Preacher: Rev. Albert Mead, M.A.

Organist: Mr. McMillan.

Choirmaster: Mr. Towns.

8.5 : (approx.). Relay from His Majesty's Theatre of concert by the Artillery Band.

Close down.



Atwater Kent exhibit at the Wellington Exhibition.

—Commercial Photographic Service, Photo.

Programme Features

(Continued from page 15.)

Beethoven's "Eroica," "The Soldiers' Chorus" (from "Faust"), a waltz, "Tout Pour Toi" and Hume's overture "Zitella." There will be a cornet solo, "When You Come Home." Miss Evelyn Shepherd (mezzo-soprano) and Mr. A. G. Cooke (bass) will be the vocalists, while elocutionary recitals will be given by Mr. C. Russell Smith.

Wednesday evening's programme will be provided by the Four Aces Concert Party. A programme of dance music will follow, relayed from the Bank of New Zealand Ball, Pioneer Hall.

ON Friday evening Miss Olga Wynne, Miss Helen Roy and Mr. E. G. Bond will contribute to the vocal portion of the musical programme. Among the songs will be "The Lament of Isis," "Big Ben," Gounod's "Serenade," Sander's "You Along O' Me," Brahms's "Serenade," and "Rolling Down to Rio." Instrumental numbers will be given by the Studio Trio. There will be elocutionary recitals by Miss Joyce Gould.

4YA will relay from 3YA on Saturday evening.

Have you procured your copy of "N.Z. Radio Listener's Guide?"

Dealers and Booksellers 2/6; Post Free 2/9—P.O. Box 1032, Wellington.

Now Available.

For Business Men

The Public Trust Office has just issued a booklet entitled "A Vital Business Matter." This booklet will be found very helpful, containing as it does sound advice and much valuable information. It deals with financing and managing estates, loans, the importance of making a good will and several other interesting matters. You will benefit by reading this book and it is given free of charge.

"A Vital Business Matter."

You can get a copy from any Office or Agent of the Public Trustee, or free by post from the Public Trustee, Wellington.



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Radio Round the World

THE progress of radio in South Africa is very slow. During the last two years licenses have increased by only 3900. Piracy abounds, but the authorities are very successful with their prosecutions. However, even these deterrent measures do not reduce the increasing numbers of non-financial listeners.

AN English paper reports that one of the Eskimo dogs, evidently dissatisfied with the regular table d'hôte, found his way to the roof of the wireless cabin of the City of New York and fastened his teeth in the loop antenna of the radio compass.

THE all-electric ship which recently arrived in Sydney aroused a great deal of interest. The Brunswick, designed for the sole purpose of carrying motor spirit, brought 4,000,000 gallons of this commodity to Australia. The cargo was discharged in just over 24 hours, thus maintaining an average of 81,000 gallons an hour.

A 3000-H.P. car is being constructed in England, capable of a theoretical maximum speed of 400 m.p.h. For the steering of this car beam wireless is to be employed, so that it will actuate a red point, which moving over a white disc, will show the slightest deviation from the true course.

THE Reich Broadcasting Company of Germany has decided to build a new headquarters at the cost of a quarter of a million sterling. The building is to have a frontage of more than 1000 feet. It will have two halls, each about 90 feet square, and is to be five stories in height.

FOR being the owner of a wireless set, a Russian peasant was recently killed by his neighbours. "Popular Wireless" remarks that perhaps they were radio enthusiasts and coveted his spare parts themselves.

THE Hungarian Government has decided that radio loudspeakers come under the heading of nuisances, and anyone operating one in a public thoroughfare is liable to be fined.

SUICIDE is becoming a habit among the Turks, with fatal results, reports an exchange, so the Stamboul University is broadcasting a series of anti-suicidal lectures. The radio lecturers are trying to counteract the mental state which leads to suicide.

THE wireless organisation for the air mail service to India, which was inaugurated on March 30, forms a complete chain, so that the aircraft engaged are in touch with aerodrome ground stations throughout the 4700 air miles from London to Karachi.

Radio and Crime Australian Methods

Action in Chicago Mr. J. R. Smith Returns

IN order to repress an ever-spreading crime wave, there was brought into being a novel means of co-operation between Chicago's police force and her leading broadcasting station, W.G.N.

A fleet of speedy, high-powered cars was equipped with receiving sets, locked on WGN night and day. When the call comes from police headquarters the programme is interrupted, and out goes the order, "Squads Attention!" Sometimes there are as many as a dozen calls in an evening's tuning. Immediately on receipt of the message this radioized fleet proceeds to the scene of the crime as announced from the station.

On one occasion radio brought squad cars to a mansion in a select suburb of Chicago. After detectives had surrounded the house they burst in the door, only to be welcomed by the burglar himself. He was a paperhanger awaiting the return of the family before starting work. To make the affair all the more complicated, the message which brought the detectives on the scene of the supposed robbery also brought a crowd of several thousand people to see how the police actually capture a real burglar.

MR. J. R. SMITH, officer in charge of the Radio Laboratory, Post and Telegraph Department, Wellington, who has been in Australia for some time past on a mission of inquiry concerning the changes in system recently made effective in the Commonwealth, has returned to the Dominion. A detailed report on his observations and conclusions will be drawn up and presented to the Department for consideration. Mr. Smith had a very interesting time in the Commonwealth and was afforded special facilities for investigation.

WHAT AN IMPROVEMENT IN JACK'S PLAYING!

That's what everyone says about him now since Billy Mayerl taught him the up-to-date rhythm style (syncopation). If YOU can already play a little, Billy Mayerl will teach YOU, too, with the same result. You will attain this through the post in your spare time, and if you will follow the instructions for only half an hour a day you will quickly become the envy of all your friends. Send three penny stamps NOW for full particulars of this wonderful system to Billy—

MAYERL SCHOOL

400RS Hereford Street, Christchurch.

THE RADIO LISTENERS' GUIDE

1929-30 EDITION

The "Guide" is of more than passing interest—it is AN AUTHENTIC REFERENCE WORK that can be called upon to answer all those questions that often trouble the amateur wireless enthusiast, and radio set owner.

Secure your Copy

now, of the "Radio Listeners' Guide," dealing with wireless conditions in New Zealand, giving full details and descriptions of radio matters. The sections are: "Radio in New Zealand," "Wireless from the Technical Aspect," "Multi-valve Receivers," "Aerials, Earths and Accessories," "Short-Wave Reception," "Trouble Tracking," "Reference Section," and a completely revised Glossary of Radio Terms and Names.

This publication may be purchased at the most reasonable price of **2/6** per Copy.

Obtainable from all Radio Dealers and Booksellers.

(Postal Coupon for Country Readers.)

"N.Z. Radio Listeners' Guide, 1929-30."

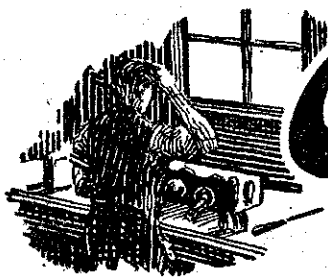
"RADIO RECORD,"

P.O. Box 1032, WELLINGTON.

Please post me immediately.....copy [ies] of your 160-page illustrated reference work "The N.Z. Radio Listeners' Guide, 1929-30" at 2/9 per copy posted. I enclose herewith postal notes for..... (Add exchange to cheques).

Signed.....

(Write address clearly).....



Questions and Answers



The Super Set.

"H. F." (New Plymouth) has asked for the diagram of a set that will embody the following points:

1. Full range of A class stations (if possible, others) with regular undistorted reception on the loudspeaker.
2. Natural, undistorted tone.
3. Set to use screening, if feasible, pentode and three electrode valves.
4. Fading, atmospherics, reduced to a minimum without sacrificing tone, power and range.

...receiving the broadcast bands with ex-actness.

A. A set embodying these points has been the aim of radio engineers since wireless was. It is utterly impossible for any set to include all the points enumerated. The range of stations to be received is very uncertain, and very few sets can rely on receiving overseas stations at excellent strength under all conditions. Musical reproduction is proceeding at a pace, but it is impossible at the present time to get any apparatus that will give a natural undistorted tone. Distortion can in a good amplifier and speaker be reduced to a minimum, but it is ever-present, in some slight form or another. The nearest approach to perfect tone is obtained through the use of a push-pull amplifier with big power valves and a good moving coil loudspeaker.

The use of screening and pentode valves is yet only in the experimental stage, and the fate of them is unknown. Atmospheric conditions can in no way be controlled by the radio receiver. When the set is made more sensitive these extraneous noises are increased. A short-wave set with coils to receive the broadcast band, cannot be more than a compromise for reasons that have been explained in past numbers.

If "H.F." wishes to construct his own receiver, he will find the two R.F. Brown-Draught with a push-pull amplifier to be one of the best he can build. This, with a shortwave adapter, should suit his requirements. Both have been described in the last issue of the "Radio Listeners' Guide."

Direction of Aerial.

IS there any advantage in having the aerial east and west in preference to north and south? writes "J.H." (Mania).

A.: An aerial running north and south brings in the New Zealand stations well, but the strength of the Australians are sacrificed. An aerial running north-west to south-east will bring in the Australians at a slight sacrifice to New Zealand ones. An aerial east and west has little in its favour as far as direction is concerned.

Unidirectional Loop Antennae.

"DIOGENES" (Cromwell) has constructed several loop antennae, but finds although they are sensitive yet they are unidirectional. He found that the set could not be neutralised when connected with the loop.

A.: A circuit diagram showing how the loop was connected to the set should have been sent, as very many errors are made in this direction. The rules for frame antennae are:—

1. Use it to replace the aerial coil and tune as this coil would be tuned, by a variable condenser.
2. Screen the remaining coils, as the frame has a very large field.
3. The use of a separate earth is advisable.

Coils for the Peridyne.

"H.H.E." (Auckland) asks for full details to make the coils for a Peridyne set.

A.: These coils are almost invariably purchased ready made, as they involve delicate work and are nearly always shielded. If any reader has made them he might send details of his experiments to "H.H.E." care of us.

Eliminator Interference.

"ELIMINATOR" (Dunedin) has complained of interference which he considers to arise from his eliminator. A continual buzzing which is barely perceptible when the aerial is disconnected is heard in the speaker. Artificial static bursts in at intervals of five or ten minutes.

A.: The fact that on removing the aerial the buzzing decreases in intensity seems to indicate that the trouble lies not in the eliminator but in some local source close to the correspondent's aerial. A power leakage of some description would give symptoms similar to this. A defective eliminator would cause mild static, but this would be neither increased nor decreased with the removal of the aerial. One winding was burnt out the current arcing across this gap would set up a field which would influence the receiver.

2. What is the correct number of turns on a M.C. speaker for two 171A's in pushpull?—75.

3. What is the purpose of a series condenser in the aerial lead usually specified for the Browning Drake?

A.: A condenser in series with the aerial is equivalent to a condenser in series with the aerial tuning condenser. The sum of condensers in series is equal to the sum of the reciprocals inverted. This gives a final capacity less than the capacity of the aerial tuning condenser, with the result that the wavelengths received are lower or the frequencies higher. This condenser usually has the effect of greatly sharpening tuning, but of reducing volume slightly.

Adding Screen Grid to Reflex.

CAN a screen grid valve be added to a reflex circuit? asks "H.L.M." (Whangarei).

A.: No, the only form a screen grid valve can be connected to this receiver is by the use of a booster, such as has been described previously in the "Radio Record"—even then it is doubtful, if the result would be successful. The reflex has been made to handle relatively weak signals, and when they are stepped up, fresh difficulties are likely to be encountered.

2. Can a pentode valve be used in this circuit?

A.: Yes, a pentode can be used in any circuit by merely connecting the extra grid terminal to "B+."

3. Can resistance be used instead of transformers in this circuit?

A.: Yes, but all advantages of the reflex would by this be lost.

Concerning Push-Pull.

"QUESTION-MAN" (Wellington) in submitting a diagram for consideration asks:

1. Can two pentodes be used in push-pull as a final stage amplifier?

A.: Although the pentode is a power valve, it is not intended for use in circuits where a great deal of volume has to be delivered, and as this is the main attribute of push-pull amplification pentodes are not suitable. To obtain the best results from a stage of push-pull power, valves should be of the 171A type. The semi-power valve is not so suitable.

2. Would any advantage accrue by inserting an audio frequency choke after the output transformer?—No.

3. Can a push-pull amplifier be used immediately following the detector?

A.: No, an intermediate audio stage is necessary.

4. How many A.C. valves can be used in conjunction with a Philips PPP power pack? In other words, what is the amperage that can be drawn from the "A" transformer and the milliamperage from the "B"?

A.: From 4 to 5 valves can be used quite safely with this output, which delivers 30 to 35 milliamps at 180 volts. The "A" transformer will deliver about 2 amps.

Request for a Circuit.

"L.B." (Dunedin) has asked for the diagram of a circuit employing three stages of R.F., detector, and two A.F., using reaction with single-dial or two-dial control.

A.: The best we can recommend is the two R.F. Brown-Draught with a stage of push-pull. Single-dial control can be used with balancing condensers. Connect the moving plates of all the condensers to earth, remove the grid leak, and insert it between the grid and F plus terminal of the detector. By employing balancing condensers a certain degree of sensitivity is retained which would otherwise be lost.

Amplifier Trouble.

"RADIO FIEND" (Epsom) has had poor results through connecting an amplifier to a short-wave set. He finds particularly that when he places his finger on the "B plus" of the first transformer a high-pitched whistle results. When he first made the amplifier, volume was splendid.

A.: It is apparent that feed-back is occurring through the battery. The fact that a high-pitched squeal results on placing the finger on the battery terminal strengthens this view. The cause is no doubt due to the high resistance of the "B" battery, which is probably in a semi-discharged state and requires renewing. A 1 mfd. condenser connected across the batteries would reduce the trouble.

Linen Diaphragm Speaker.

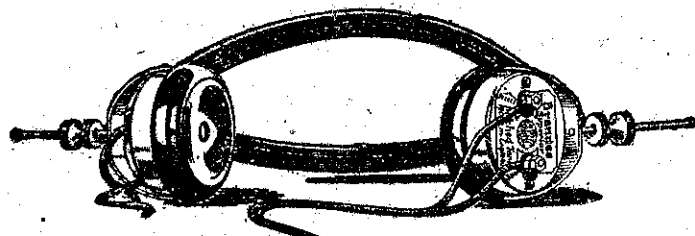
MY linen diaphragm speaker does not come up to expectations, writes "J.N.N." (Te Mata). Generally speaking, voices come through as though spoken into an empty tank. I used shellac as a dressing for the linen which was not of the highest quality.

A.: The wrong dressing has been used. The article stated Duco or Colloidin, and either of these should have been used.

2. Wishing to tone down the volume from 2TA, I am using a power valve (256) in the first audio stage, and an-

Brandes

The Name to know in Radio



Made in England

Price 15/-

OBTAINABLE FROM ALL RADIO DEALERS or
INTERNATIONAL RADIO Co. Ltd., Ford Bldgs., Wellington

other power valve (603) in the second audio stage. There are 18 volts grid bias on the last valve.

A.: This is a very unsatisfactory arrangement. A 256 valve without bias is consuming about 20 milliamps, and the 603 biased at 18½ volts consumes 18 milliamps, resulting in a total draw for these two valves of 38 mas. This is far too great. A six-valve set using the correct valves rarely requires more than 30 milliamps altogether, so that under these circumstances the "B" batteries will run down very rapidly. The best method of controlling volume is to insert a high variable resistance between aerial and earth.

Screened Aerial.

"H. S." (Hunterville) states that he has erected an aerial attached to a galvanised wire which stretches between a tree and a hill half a mile apart, so that it lies just under the suspending wire. It is well insulated from it. He states that the results from this are not as good as the results from a smaller aerial of the usual type.

A.: There are three distinct effects due to the aerial being suspended to the galvanised wire:—

1.: This supporting wire is earthed, consequently the effective height of the aerial is a few inches.

Train Telephones

Canadian Invention

A FEW months hence the crack trains of the Canadian National Railways between Toronto and Montreal will be equipped with facilities allowing passengers two-way communication by long-distance telephone with any point on the North American continent.

The basis of the new application of the telephone lies in a combination of carrier current telegraphy and radio. The Canadian National Telegraphs have perfected a system of carrier current telegraphy, which now practically spans the Dominion. This system of telegraphy allows ten channels on each wire for message transmission. It was at one time called wired wireless, a confusing name. By means of the telegraph lines which run alongside the train tracks, it is now possible to talk from the moving train to any distant point.

The call is put through by the passenger in the same way that any long-distance call is given. The operator on the train calls the nearest exchange, his voice leaping by means of a powerful radio transmitter the short distance from the train to the telegraph wires. In fact, the radio transmitter is little more than a powerful amplifier as used on the carrier current system, which induces the electrical signal, which was the voice, into the nearby telegraph lines.

Since the carrier current system allows for voice transmission without interruption, the same results are obtained as over regular telephone lines. The call, once it has reached the telegraph wire, alongside the track, is picked up at the nearest exchange.

The operator there answers the train operator, for it all takes but a few seconds, and gets the number in the distant city. Then the procedure is like that of any telephone. It is also possible for a telephone subscriber to call up a train fitted with the apparatus.

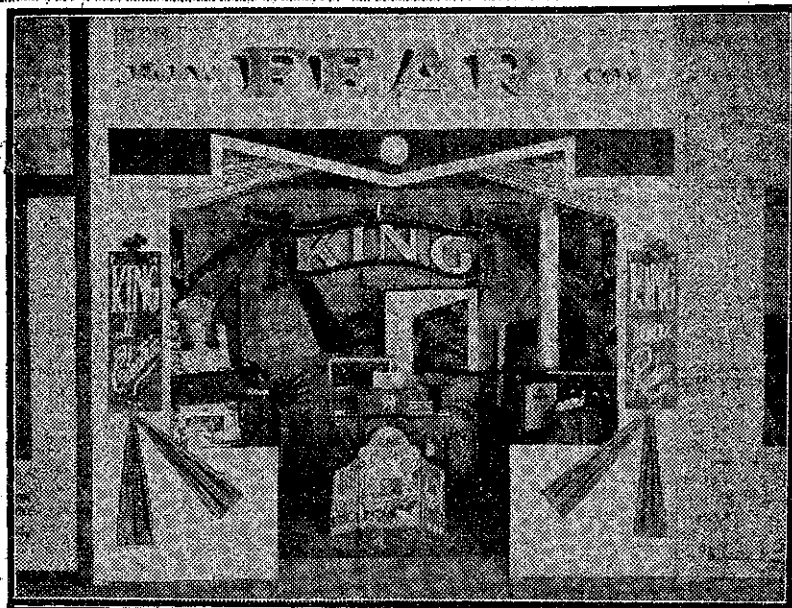
The Canadian National Railways will not attempt to control the use of the invention, which is to be made available to all railroads.

Use in England.

RAILWAY authorities in England are watching closely the developments which have taken place in Canada in connection with the application of wireless telephony to the needs of the business passenger. Their intention is to experiment with the innovation here in the light of the results which are being obtained overseas, and should present indications be fulfilled the day is not far distant when a passenger from Glasgow to London will be able to carry on his business during the journey through a telephone very similar to that on his own desk at home. The Dominion authorities have succeeded so far beyond their expectations, and are already planning telephone installations in a number of trains over short distances. Briefly, the procedure is the linking of the train telephone with a switchboard in a rear coach. The operator there inquires for the number in the usual way, and communicates with the nearest receiving station by wireless, the call in turn being passed through to the ordinary telephone exchange. Calls from "terra firma" to moving trains have also been put through satisfactorily by reversing the process.

For Sale or Exchange.

See page 32 for column of casual advertisements.



King Radio was featured on Messrs. Fear's stand at the Exhibition.

Screen Grid B.D.

"MARTON" wants to add a screen grid stage to his Browning-Drake.

A.: The correspondent would be unwise to interfere with his two R.F. Browning-Drake, as selectivity and sensitivity would likely be impaired. A screen grid booster could be tried, likewise the four-valve circuit which appeared in the "Listeners' Guide." In this latter case, two stages of radio frequency might follow the screen grid stage, but it is doubtful if the original two R.F. B.D. could be excelled by this arrangement. A diagram submitted by the correspondent is quite unsuitable.

In Brief.

"F. F." (Wanganui).—The "B" battery using test tubes was described in our issue July 29, and August 5, 1927.

Earth for A.C. Set.

"A. F.G." (Queenstown) has found that his A.C. set worked equally well with the aerial removed. He has tried all approved types of earth, and none are effective.

A.: As the set appears to be giving satisfaction it is apparent that it is earthing through the A.C. mains.

Trouble with a Long Aerial.

"A. F.P." (Blenheim) has an aerial 70 ft. high and 80 ft. long which does not give as good reception as a smaller one 120 ft. high and 20 ft. long.

A.: 150 ft. being the total length of aerial and lead-in is far too great, and maximum signals are no longer received. Noise is increased and selectivity spoiled. It is possible, too, that the small aerial was directional, while the slanting lead-in of the big aerial would offset any advantage obtained from this L type aerial.

2. The wire is acting as a screen and absorbing energy from the ether, leaving the aerial in a shadow.

3. There is a capacity effect between both wires decreasing the efficiency of the aerial.

Storm Frequency?

Curious Incident Reported

A CORRESPONDENT in North Auckland writes as follows concerning a very interesting phenomenon which he recently experienced:

"An incident that may interest the technical men occurred during the rebroadcast of 4QG by 2YA on Saturday evening. During the rebroadcast a south-westerly squall with rain passed over, and 4QG faded badly, so I immediately switched over to 2YA (5 degrees on dial). Imagine my surprise when nothing but a roar greeted me. On to 2FO (7 degrees)—all O.K., back to 4QG, weak but clear of interference—to 2YA, roar again, with talking just audible through the roar. After the squall everything was again normal. It would appear as though this disturbance had a definite wavelength close to 2YA's, as it gradually decreased either way. Actual dial readings: 4QG, 46; 2YA, 50; 2FO, 57.



G. G. Macquarrie featuring Steinitz at the Radio Exhibition.
—Commercial Photographic Service Photo.

"Tetrode" Crystal and Amplifier

Very Low Maintenance Cost

(By "GALENA")

IN the Special Crystal and Portable Number, December 14, 1928, the writer described a crystal set and amplifier to work from 22½ volts B battery and dry cells for the A.

Numerous satisfied correspondents and constructors have testified to the efficiency of this receiver, and this encouragement has prompted the description of the improved set with condenser controlled reaction.

The original was in no way a freak circuit, the secret of its success lay in the type of valve used as amplifier—the tetrode or double grid. With the combination the reception of overseas stations has been reported in more than one case, but this can not be held as a feature of the set. It has been designed to give good speaker reception of the local station at a low running cost. Generally speaking, the amplification is the same as a good general purpose valve with a high amplification factor operated with 90 to 135 volts on the plate. Some have stated that the set is the equivalent of a two-valve amplifier, but this must be questioned. The set to be described should equal a two-valve amplifier.

A feature of the "Tetrode" Crystal Set and Amplifier is that it can be made from an existing one valve amplifier at a minimum of cost and trouble—and if carefully made will give satisfaction.

Use of Tetrode Valves.

EXAGGERATED ideas exist with regard to the use of these valves. The writer's experience is that as single stage amplifiers for crystal sets they are difficult to excel, but in multi-valve sets they are not satisfactory. They give the amplification but can be overloaded very easily with the consequent ruination of the tone.

Double grid valves have been used widely in France, and in glancing through French magazines one is struck with the very large number of circuits still employing them. They are termed Bigrilles (two grids), and this name has been seen in this country in the Micro Bigril valve. This was the first valve of its type used by the writer, and was on the "Radio Record" stall at the exhibition. The base was unconventional, a special socket had to be constructed, but the Philips A441 may now be used with the ordinary holder. An extra terminal is provided at the side for the second grid.

In both the set to be described and in the original set a Pentode valve may be used to advantage, but a high voltage in the order of 135 volts will have to be applied.

The Circuit.

EXAMINATION of the circuit will show that there is nothing in the way of "freak" combination. The crystal set is the usual with an extra winding on the aerial coil for reaction. The amplifier is slightly complicated by the addition of reaction devices, but is nevertheless simple. The aerial coil is tapped in preference to a separate primary. This, while not conducive to selectivity is the best arrangement for sensitivity and this is the main attribute of this circuit.

The constructor is advised not to attempt to dispense with any of the components, all have been selected only after a careful test and all are necessary, with perhaps the exception of the R.F. choke.

The Components.

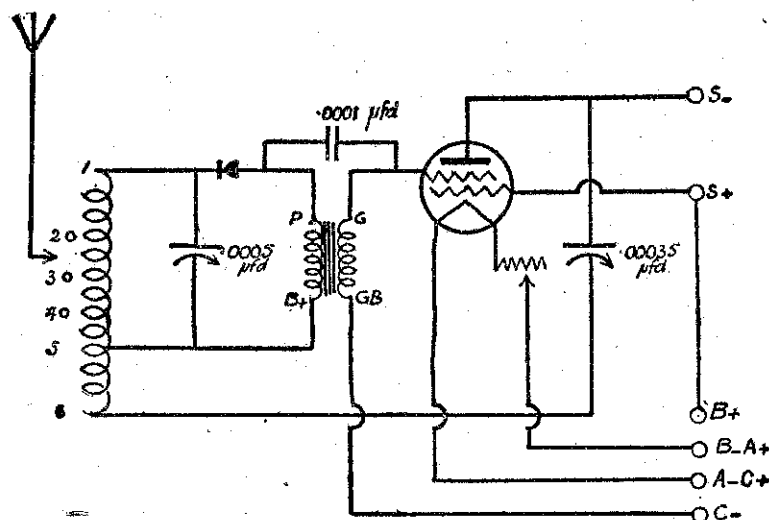
THE selection of the components is left to the constructor who will adapt the quality of these to his pocket. "Nothing but the best" is a good motto, but first-grade components are very expensive and as the object is to keep expense to a minimum, this rule will no doubt be deviated from. Second-grade parts may be used with a slight sacrifice to efficiency, but providing the transformer and the fixed condenser are of good quality little will be lost in cutting the price on the others. A reasonably good transformer may be

inch, is preferable in the front. This should be bevelled off to give a neat appearance. When complete, smooth with sandpaper, stain, varnish, and allow to dry. Not until thoroughly dry is it advisable to carry on with the assembly.

The Assembly Layout.

THIS aspect of the construction is of paramount importance and unless there are very definite reasons that described should be followed. The only component that can be constructed satisfactorily and economically is the coil. Coil construction was dealt with by "Megohm" a few weeks ago and the prospective constructor can refer to this if he desires to construct a type of coil other than that described here.

The simplest and most efficient coil is wound with unspaced D.C.C.



had for 15s. Cheap ones soon burn out, besides their tone is poor. A list is appended.

A Suitable Cabinet.

THE usual procedure in construction is to build a set comprising a base-board panel and components, and connect these by long leads to batteries, either concealed or lying about the set. A cabinet may be constructed, but usually not till some time afterwards, if then.

This time procedure is reversed and the cabinet is constructed first, and the amateur will not find this difficult. Diagram 1 will give an idea how this should look when finished.

The timber is half-inch, well-seasoned heart: 8 x ½ inch dressed lining is very suitable, and is readily obtainable from a timber yard for a very small sum. About 7½ feet will be ample.

Space will not permit full constructional details of the cabinet. Measurements are fully given, and no difficulty should be encountered. Outside measurements are given in each case.

The front portions should be joined as in Diagram 2. The edges can then be rounded off and polished. It is advisable to fit the bottom and back into the front and sides; that is, like the end of a fruit box.

The top forms a lid and is provided with hinges. A small overlap, say half-

wire on a three-inch former. Obtain six inches of cardboard former from a dealer. Now make a sma" aperture in this about one inch from the end. Through this pass about six inches of wire and, making this secure, commence winding so that each succeeding layer lays snugly against its neighbour. At every ten turns pause in the winding, pierce the former with a penknife, scrape the wire clear of insulation and pass a loop through the slit. From the inside pass a thicker wire through the loop and double it over to prevent slipping. Now draw the coil wire tight and proceed with the winding. In this way complete 40 turns. The reaction coil has now to be wound.

Without cutting the wire, make the join already described and wind on 25 turns. Pass the end through the former and secure by means of a small nickel bolt through the former. With the soldering iron run a little solder into the joints in the inside of the former.

The fate of these tappings rests with the constructor. If the local station only is required all that is necessary on completion of the set is to try each connected with the aerial to ascertain which gives the best result, and connecting this with the aerial terminal, disregard the others. Those wishing to search for other stations should

SOMETHING NEW and BETTER is found in the Peerless Dynamic Speakers

NEW

Voice Coil of Special Design. Input Transformer with Special Secondary.

BETTER

Quality and Volume is obtainable through suspension of Voice Call.

PEERLESS

Also offer Magnetic Cone Speakers from £5/5/-.

New Zealand Representatives:—

THOS. BALLINGER & CO., LTD.

58-62 VICTORIA STREET

WELLINGTON.

Write for Free PEERLESS Booklet.

connect the aerial lead to a pin socket and solder each lead to a pin. The aerial tapping can then be varied at will. The top terminal, the terminal common to the reaction and the aerial coil, and the reaction coil terminal are not connected with pins.

Mount the components in the cabinet as indicated. The two condensers and

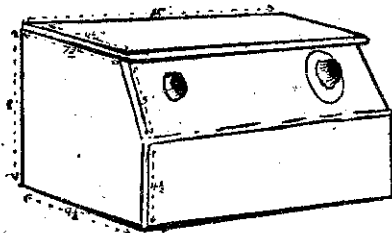


Diagram I.

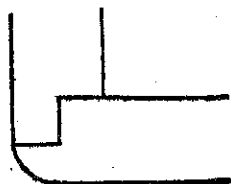


Diagram II

The diagram illustrates the cabinet for the original set. The same dimensions apply, but a reaction dial replaces the rheostat which is to be centred.

the rheostat are mounted on the sloping front, the remainder on the bottom with the exception of the crystal, which is mounted on the side. A permanent crystal is to be preferred to any other for this set.

Wiring the Set.

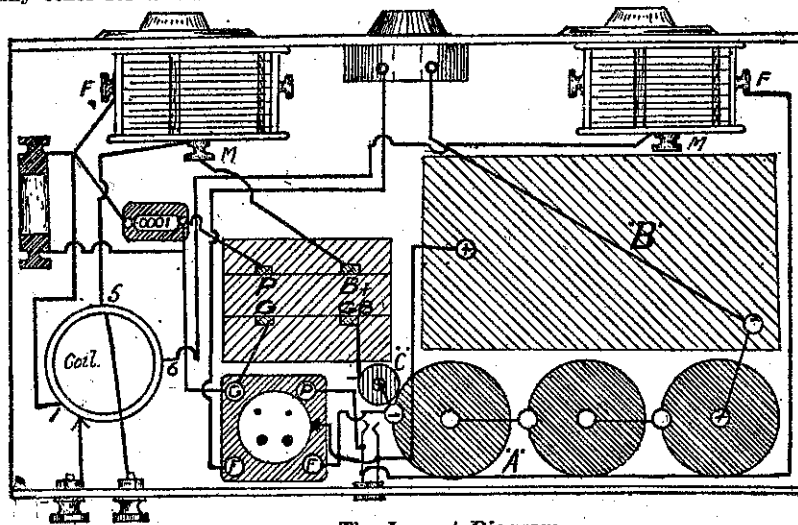
WITH the aid of the diagrams the wiring is simple. Connect the aerial terminal to a tapping on the coil, usually number 4. From the top of the coil (1) run to the crystal. This end of the crystal is connected with the fixed plates of the condenser, "B" of the transformer. The other side of the crystal is connected with "P" of the valve, and with one side of the fixed condenser. The lower end of the coil (5) is connected with "B" of the transformer, the earth, and the moving plates of the condenser.

"G" of the transformer passes to one end of the fixed condenser and to "G" of the valve socket. "GB" of the transformer goes to the zinc covering of the torch cell. The brass cap of this is joined with the negative terminal of the "A" battery. From this point a wire goes to the rheostat, which in turn is connected with "F" of the valve socket. The other "F" terminal is to be joined to "A+." A connection is now made between this point and "B" negative.

"B" positive runs direct to the output jack or terminal. The lower end of the reaction coil connects with the moving plates of the reaction condenser, the fixed plates of which are joined with the "P" terminal of the valve and with one side of the R.F.C. if it is used. The free side of this passes to the jack. If this component is not used connect directly the plate to the jack.

One connection remains. "B+" is to be joined to the terminal on the side of the valve, and now all is ready to try out.

If, on trying out, it is found that the loudest point is at "100" more



The Layout Diagram.

The coil is best mounted vertically. If it is secured to a small mount of wood by Meccano angle brackets its manipulation within the cabinet is facilitated.

Likewise the transformer and the valve base might be secured to a movable piece of wood.

A Unique Distinction

MR. W. M. DAWSON, of Philips Lamps (N.Z.) Limited, has been elected a member of the Institute of Wireless Technology. Prior to this election, Mr. Edwards, of Selectra Radio, Limited, Auckland, was the only member in New Zealand.

turns should be added to the aerial coil. Remove the aerial coil and solder a little more wire to this point and wind on a few more turns. If the condenser reads at "0" turns will have to be removed. Try first by connecting the lead to the crystal to tapping No. 2, and if this brings the local station in more to the centre of the dial make a permanent connection and remove the surplus wire.

It will be found that when the batteries are new the maximum strength will be obtained with the rheostat only partly on. Do not pass this point or the valve will be impaired. To shut off the set merely turn off the rheostat

If the constructor wishes he may connect wires from P and B+ of the transformer to another jack. Earphones may thus be worked from the crystal alone.

It may be an improvement to earth "A—."

List of Components.

Permanent crystal.

1lb. 20 gauge D.C.C.

Variable condenser, .0005 mfd.

Variable condenser, .00035 mfd.

Fixed condenser, .0001 mfd.

Rheostat, 30 ohms.

Transformer.

Valve base.

Valve A441.

"B" battery, 22½ volts.

Three "A" cells.

Torch battery.

Jack, terminals, clips.

For Sale or Exchange.

See page 32 for column of casual advertisements.

RADIO DIRECTORY

What to Buy and Where

CITIES

- | | |
|--|--|
| AERIAL MASTS | Domestic Radio Co., Ltd.,
Strand Arcade, Auckland. |
| ALTONA & HAMMARLUND-ROBERTS SETS. | Johns, Ltd.
Chancery Street, Auckland. |
| ATWATER-KENT RADIO .. | Frank Wiseman, Ltd.
170-172 Queen Street, Auckland. |
| DAYTON All-Electric Radio ... | Superadio, Ltd.,
147 Queen Street, Auckland. |
| BURGESS RADIO BATTERIES, | All Radio Dealers. |
| CROSLY RADIO | Abel, Smeeton, Ltd.,
27-29 Customs St. E., Auckland. |
| FERRANTI RADIO COMPONENTS | A. D. Riley & Co., Ltd.,
Anzac Avenue, Auckland, and all leading Dealers |
| CROSLY SETS | Lewis Eady, Ltd.,
Queen Street, Auckland. |
| LOUDSPEAKER AND TRANSFORMER REPAIRS | A. E. Strange,
404 Worcester Street, Christchurch. |
| MULLARD VALVES | All Radio Dealers. |
| RADIOLA RECEIVERS | Chas. Bennett, Ltd.,
619 Colombo Street, Christchurch. |
| RADIOLA RECEIVERS and Expert Radiola Service. | Farmers' Trading Co., Ltd.,
Hobson Street, Auckland. |
| RADIO REPAIRS AND SERVICE | E. G. Shipley,
185 Manchester Street, Christchurch. |
| METRODYNE RADIO—7v. and 9v. Elec. | Royds-Howard Co.,
553 Colombo Street, Christchurch. |
| T.C.C. CONDENSERS | A. D. Riley and Co., Ltd. Anzac Ave., Auckland, and all leading dealers. |

COUNTRY TOWNS

- | | |
|---|--|
| CROSLY RADIO | J. C. Davidson,
Main Street, Pahiatua. |
| CROSLY SETS | F. H. Jellyman, Ltd.,
Devon Street, New Plymouth. |
| CROSLY RADIO | D. A. Morrison & Co.,
Victoria Avenue, Wanganui. |
| MAJESTIC, ATWATER-KENT AND APEX ELECTRICAL SETS. Also Bremer-Tully, Radiola and Browning-Drake | Radio House, Hamilton.
G. S. Anchor, Manager. |
| PHILIPS VALVES AND APPARATUS | All Good Radio Dealers. |

"Queries Answered Here"

Problems Raised at the Exhibition

DURING the Exhibition, "Pentode" and the Technical Editor had an opportunity of meeting numerous wireless enthusiasts and discussing problems with them. The range of these was very wide. They ranged from the ailments of a simple crystal set to discussion on a 6-valve all-electric Browning Drake, but the majority of the queries centred round valves. It was surprising to see the very large number who are quite unaware of the various types of valves and their use in the radio receiver. That there is a great deal of misapprehension concerning these is evident.

One could take pity on one radio enthusiast who, wishing to strengthen up borderline signals, had purchased a power valve, and was very disappointed because, if anything, volume dropped, although tone improved. It was explained that the term "power valve" indicates a valve that will add quality to the reproduction and not amplification to signal strength. Certainly, the word is misleading, but it is applied because these valves are able to handle a greater voltage swing delivering it with greater all-round amplification than the ordinary valve, which tends to cut off extremities. This gives the roundness characteristic of a set using a power valve in the last stage.

"What is a power valve?" was a typical question. There are several power valves in each make, ranging from the 250 type used in modern power amplifiers to the 112 type used in small receivers. The average 5 or 6-valve set uses valves of the 171A type. These require from 150 to 180 volts on the plate and from 20 to 40 volts grid bias. The 112 type (PM6, B605, DEL610, 610LF and 610P) are used in the smaller 3 and 4-valve sets. The receiver using general purpose valves throughout is obsolete.

A very large number of people expect everlasting use from a valve. Not infrequently, on hearing complaints that signals were weak and tone poor, the question was put: "How long have you had your valves?" and the reply was "twelve to fifteen months." The working life of a valve is 1,000 hours, and using the set for three hours a day this amounts to a year per valve. Some valves will far exceed this, but the majority begin to lose their emission after this time and results do not come up to expectation.

Neutralising troubles were found to worry quite a few people. The symptoms of a denaturalised set are usually harshness on the top notes and squealing when the R.F. valves are strained to bring in distant stations. Where this is the case the set will have to be re-neutralised and unless the owner understands fully how to perform this operation, he is unwise to attempt it, although it is by no means a difficult task. It is easy to go from bad to worse.

Another source of trouble appeared to be arising from the use of cheap components. Many people, thinking they were saving by using small, unshielded transformers, cheap valves, shoddy condensers, and unreliable resistances, use these in their sets with poor results. Although they can be adjusted to give reasonably good results at the onset, they soon become defective, and the set is in the dealer's hands in a remarkably short time. This causes dissatisfaction and usually the dealer is blamed, though he is by no means at fault. When the purchaser decides upon a certain price for a set and will not pay sufficient for a reasonably good outfit, he must be prepared to experience trouble, and trouble is expensive.

With the Constructors.

A PART from discussing troubles, some very interesting minutes were spent with constructors who had tried out apparatus from the "Radio Record" or "Listeners' Guide." The Two R.F. Browning-Drake is a great favourite. Numerous listeners passed very favourable comment about this set, and quite a few expressed the opinion that it was the most sensitive set they had ever constructed or seen operating. The parallel feed was, according to them, a decided improvement.

Several visitors to the Exhibition had made the crystal set and one valve amplifier using the tetrode valve as described by "Galena" in the special issue, December 11, 1928, and in the "Listeners' Guide." Among these, one man had received at excellent strength several of the Australian stations, but this must be regarded as unusual.

As far as localities around Wellington were concerned, it appeared few could excel the Hutt Valley for reception. Crystal reception with a one-valve amplifier was claimed to give

perfect speaker reception as far as Upper Hutt and Featherston, while in the nearer suburbs, Petone and Lower Hutt, loudspeaker strength from a crystal set was quite common. In connection with this, one young enthusiast raised the question of magnetic amplifiers. This type of amplifier does not require a battery, but works on the principle of the carbon microphone. Owing to their unsatisfactory nature they have now become obsolete, and can be recommended only to the experimenter.

One constructor, who allows himself a very modest sum for radio experiments, suggested that articles dealing with making radio "out of nothing" be published occasionally. He instanced a few cases where very efficient sets had been made by young people from very little material. This is certainly a good suggestion, but articles of this

A New Wave Trap

Advantages Claimed

A DEVICE akin to a wave-trap, which is said to be very effective for cutting out unwanted stations, was described recently in the "Manchester Guardian." It incorporates a plug-in or solenoid coil of 35 to 60 turns, tuned by a .0005mfd. variable condenser in parallel. One end of the coil is connected to the earth terminal of the set and the aerial is attached direct to the other. Another lead is taken from the aerial end of the coil to the aerial terminal of the set, and in this lead is inserted a seven-plate neutralising condenser or a compression type variable-



Crosley Radio exhibited by G. G. Macquarrie at the Exhibition.
—Commercial Photographic Service Photo

type require a very great deal in the way of experimenting before they can be published. However, if any readers have constructed apparatus that they think would be interesting to others, if they care to send it along, providing it works and works well, we shall publish it.

Transmissions Synchronise

A COINCIDENCE which is not likely to happen again occurred one afternoon last week. While a record was being broadcast by 3YA the operator happened to tune in to 2YA and found the Wellington station transmitting the same record. The reception was so perfect, too, that 3YA could switch over and rebroadcast 2YA without the change over being noticeable. Had such perfect synchronisation been desired it would have been found very difficult to achieve.

fixed condenser with a maximum capacity not exceeding .0001mfd.

The best size of coil can be found by experiment, but 50 turns is a fair average for the broadcast band. The small condenser is generally set with its vanes all in, but may be adjusted as required.

Some constructors may regard the inclusion of another tuning control in the set—the unit must be tuned every time the tuning of the set is altered—as a drawback. But this is not so difficult as may at first appear. The tuning condenser of the unit moves in unison with the other tuning condenser—that is to say, if the tuning condenser of the set is moved up a few degrees the tuning condenser on the unit is also moved up similarly. After a little practice this additional operation occupies only a fraction of a second. Furthermore, this disadvantage may be overcome by the use of a change-over switch for the aerial, which will



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DRY BATTERIES

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CORY-WRIGHT & SALMON

ENGINEERS

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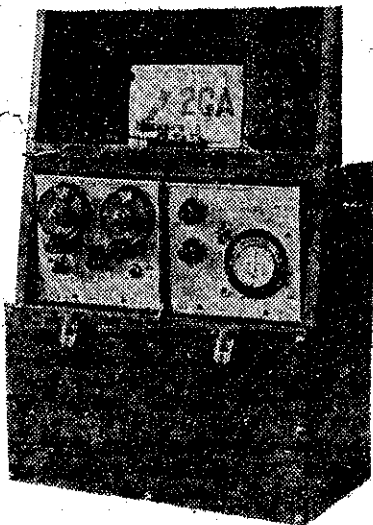
P.O. Box 1230, Wellington.

(Continued from page 32.)

The lid folds down and there is a carrying handle on the top of the case.

The aerial used is a fundamental type having 33 feet of wire as nearly vertical as circumstances permit, and a counterpoise for the transmitter; also 33 feet in length suspended a foot or so above the ground. No earth is required. The complete set weighs just over twenty pounds.

When in the field the set gives consistent signals all over New Zealand and has communicated with Australia.



With twice the plate voltage (90 volts) it has been heard in France. The set goes through very rough usage, as ZL2GA's work takes him into some of the roughest and wildest parts of New Zealand. It has been constructed with that in mind, and ZL2GA says nothing short of a road-roller will seriously interfere with it.

The set caused great interest at the Wellington Radio Exhibition.

Children's Sessions

AT 1YA.

TUESDAY, AUGUST 13.

Another happy hour with Uncle George and little Radio members who have songs and recitations.

WEDNESDAY, AUGUST 14.

Here is Uncle Tom, and with him Mr. Graham, who will have more to tell of the Cook Islands, where they grow such wonderful oranges.

THURSDAY, AUGUST 15.

New performers to-night. An orchestra of boys and girls from Mount Albert Presbyterian Bible Class will provide the programme and a cheery hour is prophesied. Peter Pan will have stories to tell.

FRIDAY, AUGUST 16.

Listen in to-night to Nod and Aunt Jean, who have a further supply of stories, jokes and songs. Birthday greetings and presents from the Radio Postman.

SATURDAY, AUGUST 17.

Cinderella has with her to-night the Frisky Five. You don't know the Frisky Five? Why, they are the boys who come along with their mouth-organs and ukuleles, and a lively hour they will present.

SUNDAY, AUGUST 18.

Children's Song Service, conducted by Uncle Leo and assisted by Dominion Road Methodist Sunday School.

AT 2YA.

MONDAY, AUGUST 12.

Cousin Herbert with his oboe playing Nursery Rhymes, will entertain to-night. Cousins Marjorie and Kathleen will play some music and Uncle Jeff send greetings and puzzle.

TUESDAY.

The happy little pupils of Miss Agnes Wright are once again giving Radioland an entertainment. Uncle Jim, too, will add to the entertainment and greet all the little ones who are celebrating their birthdays.

THURSDAY.

Clever little cousins—Helen, Ritzpah and Ernest—will sing and recite to-night. The Uncle with the birthday greetings will be Uncle George.

FRIDAY.

Some of the pupils of Mrs. Ethel Mackay are looking forward to giving Radioland a happy hour to-night, with the help of Big Brother Jack.

SATURDAY.

Some jolly music by Mrs. Mildred Kenny's Juvenile Band to-night

and Cousin Margaret will sing and recite. Greetings, song and story by Uncle Toby and Aunt Gwen.

SUNDAY.

The Children's Song Service will be conducted by Uncle George, assisted by the Vivian Street Baptist Sunday School Choir, under Miss Harry.

3YA.

MONDAY, AUGUST 12.

Winter-time! Winter-time is Party-time. To-night Scatterjoy will give hints and suggestions for winter parties. Winter-time is the time for walking and climbing, so listen in and hear a hint that will help you from getting puffed and out of breath. This is the night that the little ones send original verses for our Poet's Corner, to be read "over the air" next Monday.

WEDNESDAY.

Mother Hubbard and Uncle Frank in Song, Story and Repartee. With laughter and with jokes, which We all strive to see!

THURSDAY.

Cousins Miretta and Yvonne, Who sing and recite, With Uncle John and young Victor, Will be coming to-night.

FRIDAY.

Storyman at the helm to-night; with a gallant crew of singers and players. Pupils of Miss Taylor and Miss Gilders.

SATURDAY.

Sunny Jim and Jack Frost up to their tricks again. And Aunt Pat with a fresh Fun Competition for all.

SUNDAY.

Children's song service, conducted by Miss H. Park, and hymn singing by the children of the Anglican Sunday School.

AT 4YA.

MONDAY, AUGUST 12.

Monday's child becomes a merry little mite, When the Moray Place School sings at 4YA to-night; Tuesday's child forgets teasing little troubles, Because Miss Martin's pupils make the laughter come in bubbles; Wednesday's child gets home-work quickly done, Kensington School is here with laughter, song, and fun; Friday's child comes near the week's end, And listens to the music that Aunt Shiela's pupils send; Saturday's child knows pocket money's joys, And a programme through the speaker by Glendinning Home boys; Sunday's child sits as quiet as a mouse, Whilst the Y.M.C.A. Boys' Division sing hymns in the house.

New Wave Trap

(Continued from page 30.)

allow the unit to be reserved for cases where greater selectivity is desired.

The device is claimed to be more adaptable than the ordinary wave-trap and to have little effect on the strength of signals received.

Longest
Life,
Honest
Rated
Capacity



Voltage	Capacity Amp.	Price
4	60	£3 10 0
6	60	4 10 0
6	80	5 5 0
6	100	6 5 0

FOR SALES AND SERVICE—

Apply to and receive Satisfaction from one of the following Agents:

Auckland: BATTERY SUPPLIES LTD.

130 Broadway, Newmarket; Phone 45-540.
Also Auckland at 3 Lower Albert St. Phone 44-174.

Wellington: L. J. PURDIE & CO., LTD.

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Christchurch:

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BATTERIES FOR ALL PURPOSES
BURNING LIGHTING IGNITION EQUIPMENT

261-265 TUAM ST.
Between Madras and
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Dunedin: J. & A. P. SCOTT LTD.

Corner Albany and Leith Streets, Dunedin.
P.O. Box 209.
Phone 12-569.
Telegrams: "Japscot."

We have all the Best in Radio

FOR ELECTRICAL OPERATION

The STEINITE, with its enthralling tone quality, selectivity and distance-getting.

CROSLEY, the Radio Set with the big reputation.

PHILIPS Q.P. Receiver. "Plug in and it plays."

Complete with Speaker, Price £19/15/-

A Radio Set for Every Home!

G. G. MACQUARRIE, LIMITED

120 WILLIS STREET.

ON a recent occasion a Dutch programme, broadcast by the Huizen (Holland) high-power short-wave transmitter PHL, was relayed to WGY, Schenectady, New York, and rebroadcast through thirty-five U.S.A. stations.

Short-Wave for South Africa?

THE South African Broadcasting Company is being urged to experiment with a short-wave station to discover whether by this means reception conditions can be improved. The company's service has to cover a very wide area, which is never entirely free from fading and atmospherics.

Mexican News on Short-Wave.

AUTHORITATIVE news on the situation in Mexico is now transmitted by the Trens through the short-wave station XDA, Mexico City, owned by the National Telegraph Company. As XDA has a power of 20 kilowatts it should be heard in this country. The wavelength is 32 metres. Reports of reception will be welcomed.

Germany Exchanges Programmes with Argentina.

WHEN the Radio Exhibition at Buenos Aires was opened recently, a portion of the Berlin wireless entertainment was relayed to Nauen and Monte Grande for rebroadcast in the Argentine capital. At a later date Berlin gave its listeners a sample of the South American broadcasting.

Another Short-Wave Station in the Philippines.

A STATION working on 40 metres, with the call of KIXR, is reported to be transmitting daily from 8 till 11 p.m., except Monday. The power is 1 kilowatt, crystal control. This station is an auxiliary to KZRM, the address being: KZRM, Radiola, Manila, Manila Hotel, Manila, Philippine Islands.

(The above times, if local, will be equal to 11.30 p.m. till 2.30 a.m., New Zealand time.)

Mr. Dudley F. Huston, Timaru, reports having heard the French short-wave station, St. Assise, on about 35 metres. "Allo, allo, je St. Assise," was distinctly heard, and when they closed at 6.45 a.m. the word "terminee" (ending) was heard.

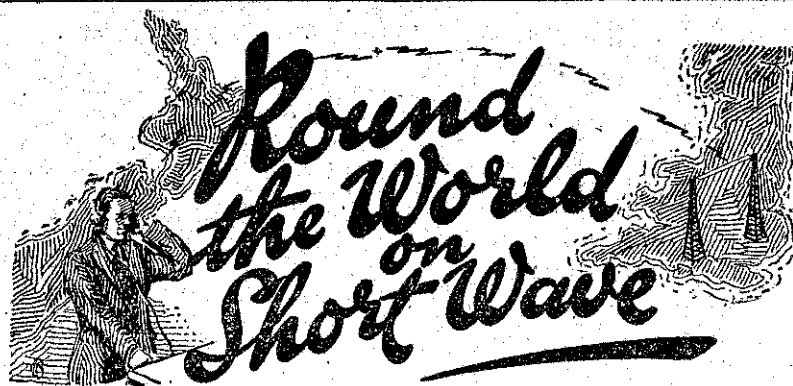
This French station was heard in the morning of August 1, till 6.45 a.m.

Mr. Huston has logged 60 short-wave stations. Congratulations, O.M.

Morse interference with 5SW is still bad during the early morning reception.

Saturday, July 27.

5SW at 5.30 a.m. was very weak. Big Ben, with piano following, were just audible through the usual ripple. When strength increased the Morse station started and spoilt reception.



THIS page is conducted in the interests of shortwave enthusiasts. A weekly log comprising notes of reception and interesting topical events is contributed by Mr. F. W. Sellens, Northland, Wellington, but all listeners are invited to send in paragraphs of general interest.

PCJ commenced at 5.35 a.m. at R5 for a minute or two and then disappeared till near 6 a.m., when they were much weaker. From then on volume increased till they were R8 by 7 a.m.

During the transmission an expedition in Kashmir, India, were called.

On about 35 metres weak talk was heard; sounded like a lecture—not readable. Later a lady was talking, but still not readable.

AFK commenced a talk at 6.30 a.m. at R4. During intervals a very quick-ticking metronome could just be heard.

PCJ in the afternoon was first audible soon after 1 p.m. Volume increased slowly to R8 by 3.30 p.m., remaining at that till 5 p.m. Reception was excellent. A long list of names were read of persons sending reports.

The Dutch announcer stated that there were three times as many reports received from New Zealand as from Australia.

KDKA, with me, was about R7 at its best. They announced the latest news to hand in reference to the endurance test in the St. Louis Robin.

W2XAD, although good strength, does not reach the volume now that they did a few weeks ago.

VK2ME was full speaker strength with their relay of the All Black v. Australia football match, but were rather gushy during the latter part.

3ZC, Christchurch, were good at R8 with records.

Sunday, July 28.

At 12.30 p.m. 2XAD was R5. KDKA and W2XAF were just audible at the same time.

2XAD and 2XAF put on a special Byrd programme from 2.30 p.m. Both were R7 at this time, the 19.5 station being much the clearest. From this time 2XAD decreased and 2XAF increased in volume, the former remaining the intelligible.

A feature of the special programme for the Byrd Expedition from WGY and its

associated short-wave stations is a talk on the latest aviation news. During to-day's talk, the latest about the St. Louis Robin was told to Commander Byrd. This included the fact that they were aiming to stay aloft for 500 hours, also that the flyers were able to shave while aloft, thus being able to return to the ground looking as spruce as when they "took off."

WLW was very weak, being only just readable at 4.45 p.m.

ZL1FI, Te Puke, was heard at R7. Quite good.

Monday, July 29.

W2XAD or a station working on its wavelength was heard at 6.30 a.m., when singing was just audible. Signals were much weaker at 7.30 a.m.

VK2ME, testing for GBH, England, with music, readings and 1000-cycle note. R9 was heard at 6.30 p.m.

Tuesday, July 30.

5SW was R4 at 5.30 a.m., but spoilt by Morse all through.

VK2ME were testing with GBH early, and again at 6.30 p.m.

5SW at 11 p.m. were just audible, with the Morse station still there.

W8XAL (WLW) was R4, with a talk, static spoilt reception.

Wednesday, July 31.

5SW was free from interference for a change, but reception was not worth while on account of a bad ripple.

W6XN (KGO) was just audible at 6 a.m.

VK2ME, testing for GBH. Newspaper readings and 1000-cycle note as usual.

KGO was tuned in at 6.20 p.m., when selections from "The Show Boat" were being given by the Spotlight Revue from the St. Francisco studio of the National Broadcasting Company. From 6.30 p.m., the "Musical Musketeers" provide the musical programme. Volume was R8, at first, reducing to R7 soon after 6.30 p.m., increasing again later.

KGO signed off at three-quarters of a minute past midnight, Eastern Standard Time. (7.30½ p.m. here.)

Mullard
THE MASTER VALVE

Embodies all improvements
known to Valve Manufacturers.

WHY?

Kingsford Smith uses Burgess Batteries. Commander Byrd uses Burgess. More Burgess Batteries are sold in New Zealand than any other make. Why?

**BURGESS
RADIO
BATTERIES**

VK2ME, testing for GBH, signs off at 8.30 p.m. till 18.00 G.M.T.

Thursday, August 1.

WAS up too late for much listening. 5SW at 7 a.m., was quite good at R8, with some singing.

An accident resulting in a sprained ankle has put a stop to dial twiddling for a time.

An Economical Combination

THE following description of ZL2GA, which was on exhibition at the stand of the "Amateur Radio Transmitters" at the Exhibition, will be interesting to those who have seen this portable station:—

The whole station, power supply, etc., complete is housed in a case which measures 14 inches by 14 inches by seven inches deep.

The sets themselves comprise two separate units, each identical in size—viz., 6 inches by 5½ inches by 5 inches. Each is constructed of aluminium and fits into a felt-lined compartment in the top of the case. The receiver is a two-valve short-wave outfit which receives all the usual DX stations on short waves. The transmitter uses a receiving valve, in the Split-Colpitts circuit.

The power used is a standard 45-volt B battery for high tension and three dry cells for A battery. These are in the bottom of the case, where there is also room for key, 'phones, aerial and other spare gear.

The batteries are controlled by the switch just to the front of the sets. To the right the batteries are all connected to the receiver and when the switch is to the left they are working the transmitter. If it is left upright they are disconnected.

The switch mounted on the lid is the aerial change-over send-receive switch. (Continued on page 31.)

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 2/- cash for 20 words, and twopence for every other word thereafter.

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