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The Future of Radio



SCIENCE that is growing side by side with radio is that of picture transmission, including radiovision, radio drama and radio "movies." The

principle of picture transmission has come to perfection more rapidly than that of radiovision and its associated arts. Already, picture transmission has become commercialised, and the British Broadcasting Company radiates pictures regularly on the Fultograph system. The principle of this apparatus is analogous to that of the reproduction of pictures for Press purposes. The photograph is transferred on to a sheet of zinc and copper suitably coated. This becomes soluble when exposed to light, and when washed, the portion not exposed to the light disappears, leaving an insoluble image. Current is transmitted when a stylus touches the metal, and variations in current occur. A reversal of the system at the receiving end allows images to be received on much the same principle.

In 1928 pictures were regularly radiated from 5XX, Daventry, England, and about the same time regular transmission across the Atlantic was established. Facsimiles of cheques, photographs, documents, etc., are now regularly sent from Europe to America.

THE principle of radiovision, usually known as television, is altogether different. By television is meant the transmission of moving pictures, not necessarily over the air. They may be transmitted through a photograph line, but "radiovision" involves the use of the ether. The state of radiovision to-day is the position similar to that occupied by radio in 1900.

Radiovision aims not at transmitting still pictures, but moving images of the objects televised and the system employed is somewhat similar to that used in the ordinary cinematograph. An image is produced on the screen in virtue of the fact that it is divided up into a large number of images each of which may be considered a still picture. Owing to the rapidity of these, the eye translates the movement. To attain this, each image must rest on the screen no longer than $1/15$ th of a second. In order to obtain this breaking-up of the original object, what is technically known as a "scanning disc" is brought into operation. This is a circular disc in which are a large number of small apertures, usually 48. Behind this is a photo-electric cell and the scanning disc moves in front of the cell so that each small still picture is registered on it.

The construction of a photo-electric cell is such that variation in the intensity of light is translated as variation in electric current. This

With radio is wrapped up the allied sciences of radiovision and picture transmission. The future of these sister sciences will mould the whole communication systems, giving it an aspect yet undreamed of. The wireless set—that noisy, untidy collection of unsightly apparatus in the corner of an obscure room—has disappeared; it has been replaced by a musical instrument to which will some day be added an optical instrument—but the advent of this is not just round the corner. The accompanying are the remarks of our technical editor, to the Wellington Radio Society.

is amplified and put on the air in much the same way as a broadcast station. With radiovision there are certain very baffling obstacles. To obtain a sensible degree of light on the photo-electric cell, tremendous candle power must be thrown upon the object to be televised, though we read in a recent publication that objects have been televised in the open air.

The size of the picture so obtained rarely exceeds two inches square. To reproduce the movement at the receiver end, a disc of 36in. diameter

has to be used. The vibrations are collected from the ether and amplified in an ordinary receiver. This amplified current is passed through a neon cell which translates the electric vibrations in varying intensities of light. To receive an image a scanning disc must move in front of this cell. In dimensions this must be the same as those of the disc at the transmitting end. In addition, its movement must perfectly synchronise with that at the other end. Not only must the two move at the same pace, but they must each occupy the same position at the same time.

Working under this system, radiovision is beset with obstacles, and Hugo Gernsback, until recently Editor of several of the leading American technical publications, has stated that in his opinion an entirely new system is necessary.

Two American experimenters well known to the radio world, De Forrest and Jenkins, are working upon new systems. The Jenkins system employs a very large number of photo-electric cells arranged on a screen, while the De Forrest system is such that the image remains a tenth of a second after the scanning disc has moved on. These new developments seem certainly to be more hopeful, but radiovision, as apart from picture transmission, has not yet passed the experimental stage.

The Advent of Radiodrama.

ON September 1, 1928, the first radiodrama was broadcast. The radiodrama is a combination of radio and radiovision, and its possibilities in the future seem unlimited. It has been stated that it will almost entirely replace the stage. That it will, to a certain extent, is quite evident, the substitution, no doubt, following closely that of the substitution of radio talkies for orchestras.

Another development is multiple radiovision, by which several screens each viewing the object or objects from different angles can be operated at the same time. It will be possible under this system to see and hear, say, a boxing match in one country, a band contest in another, and an aeroplane landing in another. The use of this system in a future way can likewise be visualised.

—Continued on page 2.

Future of Radio

(Continued from front page.)

Further Developments.

ON October 20, 1915, for the first time in history, a man in America telephoned to another in the Eiffel Tower in Paris. From then onwards, the radio telephone has been perfected with almost startling rapidity; 1927 saw the institution of a regular service between America and England, and this has been now extended and Sydney has spoken to London. In other pages of this issue we read of the conversation between a boy at death's door and his mother in London.

Radio is being applied to almost undreamed-of developments, and it is not an exaggeration to say that the commercial life of to-day would be impossible without radio in any of its allied forms.

Two problems have confronted radio throughout its whole history—static and fading. They are the same to-day

as they were when the first message was transmitted 30 years ago. Static eliminators have been devised, but none have been entirely successful. Wonderful stories have been built around some of these instruments, but in common all have reduced the strength of the signals as well as the static. Underground antenna, loop antenna, patent antenna have all shown that they were more or less insufficient to cope with the problem. In saying that static will in all probability never be eliminated Edison has come somewhat near the truth—but it will be overcome.

When wireless first came into being tremendous power was necessary at the transmitting end. With the advent of the valve it was found possible to reduce the power of the input very considerably, yet output was strengthened. These transmitting valves are being improved very rapidly, they are becoming smaller in dimensions and more powerful. In support of this Mr. Smith handed around a transmitting valve of large dimensions, remark-

ing that this was capable of delivering an output of about 500 watts. Against this the modern water-cooled valve of the same dimensions is capable of an output of 5000 watts, and even more, and this marks the progress of only ten years.

Static is not noticed on the local station because of the strength of its output. With the increasing strength of the stations it will some day be possible to receive these at the same strength as the local, and then, and not till then, will static be overcome.

Fading is a different problem. Its exact significance is not properly understood, though the Heaviside layer theory seems very feasible. Fading is receiving a great amount of attention at the present. Among other things, the Byrd expedition is investigating this phenomenon, and it is possible that this will also be overcome. Again, the increasing power of the stations will bear forcibly on this.

Radio of the Future.

WITH the rapid development of this science, the future indeed is very promising. As far as the receiver is concerned, it will no doubt remain all electric until something more powerful than this is discovered. Perhaps it will be rendered obsolete with, say, the harnessing of the disintegrating atom.

Each season has seen fresh developments in the receiver, though none revolutionary. The triode, the four-electrode, the pentode, the screen-grid, the A.C. triode, the A.C. four electrode, have each in turn found their way into our receivers without rendering them out of date. To-day the fashion is the A.C. valve; next season will see the introduction of the A.C. screen grid, a valve with a possible amplification factor of 300. And this valve can be easily fitted to any existing receiver.

The set of the future is not difficult to picture. One valve, combining tone quality and power, one control, and within the reach of every one. Yet this is future, only yet in the "imagination stage."

The possibilities of radio vision—seeing, talking to one's friends thousands of miles away will be commonplace. With the development of radio and aviation, space and time are being annihilated. Individual movement is being reduced to a minimum.

What of war? The horrors of the last war, when radio and aviation were in their infancy, were beyond description. Imagine a calamity with these sciences developed to present-day standards and, more important, the possibility of their development in the case of need. Wireless will render war impossible, impossible because of its terrorism.

The possibilities are without bounds, the future is still a closed book to us, and perhaps we should be thankful for this and say with Butler:

"You have shown us yesterday, with to-day we live, but, please God, keep down the veil that separates us from to-morrow."

"Delivering the Goods"

Fine Tribute to Company's Service

FEELING that it was his duty to express his appreciation of Mr. H. Cottrell's recent talk on the gannets of Cape Kidnappers, Mr. R. C. O'Connor, of the Te Aro Book Depot, Courtenay Place, Wellington, recently wrote to the Broadcasting Company. In so doing, he made reference to the broadcasting service in general. Specialising as he does in wireless literature, with customers throughout New Zealand, the Te Aro Book Depot is a rendezvous for most of the Wellington radio fans, so Mr. O'Connor's remarks are particularly interesting.

In the course of his letter to the general manager of the Broadcasting Company, he says:

"I wish to express to your company my heartfelt thanks for the way you arise to every special occasion. I bear in mind the All Blacks in South Africa, their recent tour in Australia, the Kingsford Smith event, and others too numerous to mention. It is just great, and you have my family's and my own sincere thanks for your initiative and great service. Radio has become as important in our household as the morning drop of milk. We would be lost without either

"Many an argument I have had with wireless customers in the past about the programmes put over. I counselled patience, even although their license fee was but a penny a day. I am pleased to say, however, that I seldom now ever hear a complaint about 2YA stuff—indeed, many valve users have assured me of late that 2YA is about as good as the best in their experience, and I pass it on for what you may consider it is worth.

"Possibly the Radio Broadcasting Company may still be getting a kick or two from inconsiderate licensees who do not know your colossal task, and this humble testimony from a listener in of long standing will not be amiss.

"Your company has our grateful thanks for the great pleasure you give us in our home, and we wish you continued growth and success. Personally, I am doing missionary work on every possible occasion, and your company can count on me as being ready to argue the point about your delivering the goods."

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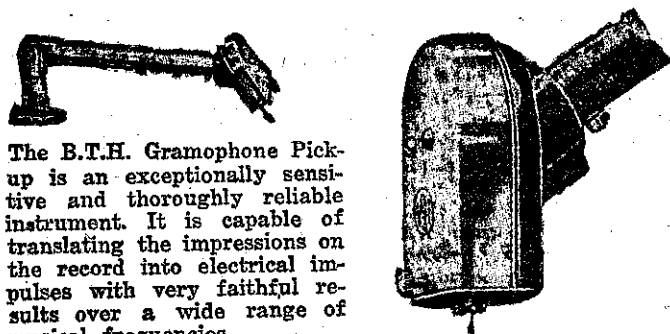
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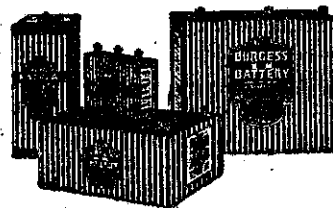
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Maori Pageant Proves Great Attraction in Australia



It is particularly gratifying to read the high praise and splendid tributes paid by distant listeners to the Radio Pageant, proving that although intended primarily for the benefit of New Zealanders the Pageant served a national purpose far abroad from the shores of this Dominion.

We publish below some extracts from the letters received.

Dora Creek (N.S.W.):

"I am writing to express my appreciation of the most remarkable and unique programme I listened to from your station on Thursday night last, the Maori Pageant. I had heard your announcement the previous night of the week, and was ready for you when you commenced at 6.30 p.m. our time. Myself and family listened from start to finish; there were only two slight fades and, absolutely no static. We never missed a word and enjoyed the programme throughout, so much so that we sent word to all our neighbours with sets to listen to the Friday night's programme, but unfortunately the static and fading were bad and we missed quite a lot. We listen a lot to New Zealand stations, as we enjoy the programmes."

Zeehan (Tasmania):

"We feel we would like to send a line or two to 2YA to say how splendid the Maoris' entertainment was that was transmitted last Friday night, especially the Jew's harp item and the hukkas (hakas). It was all so very interesting."

Birchip (Victoria):

"Permit me to express my appreciation at the splendid concert you put on the air last night, August 9. I picked you up some time late in the evening and continued to listen to your concert until I closed down at 11.45, Victoria time. The music and singing was beautiful—of course, mostly in the Maori tongue."

Rockhampton (Queensland):

"Just a few words to let you know how much we appreciated your programme last night, August 8. Having spent some years in New Zealand some pleasant memories were revived. The reception was splendid, full volume on loudspeaker. Will look forward to the pleasure of hearing you again."

South Brisbane:

"When 4QG closed down this evening at 10.30, I managed to tune in your station, and I must say that the Maori melodies as supplied by your station were wonderful and very pleasant to listen to."

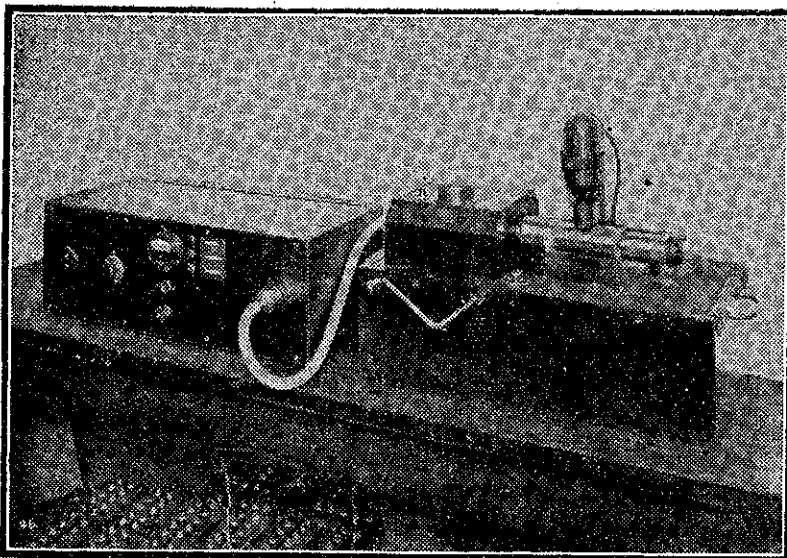
Correspondence from overseas goes to prove the overwhelming success of the Radio Pageant of the Maori Race. The first communication was from Commander Byrd, in Antarctica, but the last mail from Australia was very heavy, indicating that many thousands of people were listening in.

Reception was well nigh perfect and although rebroadcasting was carried out by the Australian stations many sets were tuned in direct on 2YA.

Collaroy Beach (N.S.W.):

"May I thank the Maori broadcasters and yourself for the delightful programme of Thursday and Friday nights. It was quite by accident I heard the items, for New Zealand programmes do not appear in the

evening, and to demonstrate the powers of my self-constructed three-valve set, I got on to 2YA, and I am satisfied that all present were as delighted as I was, and the lucky owners who possess sets sufficiently selective will be listening in again to-



The transmitter of the Fultograph apparatus for sending pictures by radio. A description appears in "The Future of Radio" on pages 1 and 2.

"Wireless Weekly." I wish they did, for some of the stuff being given us by our new B.C. Co. is appalling. On Thursday, in particular, the clarity of the productions was very good. Following as it did a delightful ten weeks recently spent by me in New Zealand, including a week at Rotorua, the broadcasting was most acceptable."

Geelong (Victoria):

"I would like to express my appreciation of the magnificent concert broadcast from your studio by the Maori Operatic Society last night, August 8. I had some friends in last

night for the repetition of this concert. Every item came through at excellent strength and clarity, and the rendering of 'Danny Boy' was beyond description. If possible I would like you to thank that lady personally for me, and let her know how much that item was appreciated. I wonder if you could possibly let me have a photo of this operatic society. Surely some New Zealand paper would be publishing the photograph of such an excellent performance. I would esteem it a great favour if you could send me on a photo. I sincerely hope I am not overstepping the bounds of propriety, but you would understand if you knew my enthusiasm."

Mallee (200 miles from Melbourne):

"From 8.30 onwards I listened to one of the finest programmes I have ever heard. A most interesting and beautiful evening was spent both on the 8th and 9th inst. The harmony was indeed wonderful and I have to

thank you for such. I feel very gratified with the results of my set and look forward to more (many more) enjoyable evenings. It is results of this kind that make the high-class broadcasting a very real factor in our home life."

Benalla (Victoria):

"I am dropping you a line to let you know that your broadcast of the Maori artists has been received by me to-night beautifully, and I have enjoyed every moment of it. As I write 'Home, Sweet Home' is being sung and the singer is most sympathetic in her rendering of the number. All the items have been splendid. Although not able to understand the native tongue, the music, like all good music, is most beautiful ('National Anthem' just finished). I may state I enjoyed your transmission very much."

Grafton (Clarence River):

"The reception was perfect and the voices lost none of their rich sweetness in the long journey to 'Aussie.' They were, I think, the best and sweetest voices I have ever heard over the air. I wish to add my thanks and congratulations to that of other listeners for those two very pleasant hours of sweet, inspiring, and soothing concert. My home is on the Clarence River, 442 miles north of Sydney, and on clear days we can bring in 2YA and 1YA at 4 o'clock in the afternoon."

Sydney:

"As a native of Christchurch who has been a resident of Sydney for over thirty years, it was with the greatest of pleasure that myself and family listened to your programme on Friday last, when you broadcast the Maori Pageant. Many of the items given revived pleasant memories of the early history of my native country which I learned in my school days. As on previous evenings, I had no trouble in picking up your station on a three-valve set of my own make, but probably owing to your transmission running later than usual the strength of your station was much better, and all the items could be heard all over the room on the loudspeaker. I hope it will not be long before I have the pleasure of hearing a similar programme through your station."

Lidcombe (Sydney):

"This evening I have been listening to a concert from your studio until

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11.45, our time when you closed down, and I am taking this opportunity of congratulating you on sending such an excellent programme over the air, which I heard quite clearly—in fact, it was just as loud as I hear the local stations, except for an occasional fading. However, it was very acceptable to myself and other members of the family, and I hope to be able to listen to such programmes again in the near future."

Barellan (N.S.W.):

"I have followed with interest the Maori Pageant broadcast from your station last night and to-night. Both nights have been wonderful, reception being clear and loud; most beautiful singing and music. My time is now 11.45 p.m. (well after midnight your time). Many thanks for your wonderful programme, and long live the Maori people and their beautiful voices."

Sydney:

"I would like to compliment your announcer on his pronouncing of the Maori language, which is quite a treat to hear after the way it is murdered by some of our station announcers. This applies particularly to the names of some of the New Zealand steamers and it would be a good idea if the Union Steam Ship Company could send to all the Australian stations, a list of their steamers giving the correct pronunciation."

Tallong (N.S.W.):

"Just a few lines to express pleasure received listening-in to your broadcast of Maori programme on Friday night last, August 9. Having an A.W.A. 'Radiola' straight six valve receiver, we did not bother about 2FC, Sydney, relay, but listened-in direct to 2YA, Wellington, and the reception was the most perfect and distinct we have yet listened to, even though we always listen-in to 2YA on Sunday nights if the reception is decent (not too much

static). Your programme on Friday night was very interesting to Australians. Speaking for myself, I tuned in at 9.3 p.m., and stayed on 2YA until closing time, 11.50 p.m. (our time) with the only exception that I changed to 1YA and 3YA for a few minutes to test the reception from those stations; both very clear, too, but not having the power of 2YA. I, speaking for one Australian, heartily congratulate 2YA for treating us to such a programme treat and the artists are also to be congratulated, for the whole of it was perfect. I wish some of our artists over here would copy their perfect singing (I prefer plain singing without any artistic 'frills') and I will add that I have never heard 'Danny Boy' rendered with more expression of feeling and perfect enunciation than I did on Friday night."

Willoughby (N.S.W.):

"I got the Maori Pageant direct from your station. You came in good and strong on the loudspeaker. Got the whole of pageant which came through, as I said, splendidly. I have to thank your station for a most interesting and instructive performance. I have now got into the knack of finding your station on the air, but thought I must write and tell you how appreciated was this Maori Pageant. There is always food for thought in such performances as these."

West Hobart (Tasmania):

"I have had splendid reception from 2YA. On July 30 I had your broadcast from the Opera House, Wanganui, very plainly, and then from the studio until eleven. I heard the clock strike and the closing down, but the outstanding performance was last night, August 8, by the Maori Party. I had this concert at loudspeaker strength, with exquisite music which filled the room. The description of the dance was closely followed by me, and I heard every movement distinctly. The

rendition of 'Home, Sweet Home' by the Maori lady and company at the close was the sweetest I have ever heard. It gives me great pleasure to get 2YA as I am a native of Invercargill, having been born there 52 years ago."

Terrigal (N.S.W.):

"I would just like to thank you and all those who assisted for the delightful programme from your station last night. I listened-in to the whole pageant from 9 p.m. till nearly midnight (local time) and enjoyed every item, and can envy New Zealand and its Native race. Looking forward to another such delightful evening."

Bundaberg:

"We often listen-in to your programmes and enjoy them, but we feel we must let you know that the Maori concert broadcast on Thursday, August 8, was exceptionally good, and we hope that you will broadcast more of them. There was very little fading, most items coming through at full speaker strength. To-night 2FC, Sydney, is re-broadcasting your programme."

Dunkeld (Victoria):

"I picked up your station last night, the 9th instant, at 10.40 p.m., Victorian time, on loudspeaker when you were broadcasting a programme by a Maori company. The reception was remarkably good, practically no static and only very slight fading. An artist sang 'Danny Boy' and every word came through exceedingly clearly, as also did your announcer's description of the Poi dance. I would like to tell you my wife and I enjoyed every item you put over the air and are sorry we did not tune in earlier."

Relay from Timaru

Orchestral Society Concert

THE second broadcast concert to be given by the Timaru Orchestral Society will take place on Monday, September 23. As on the previous occasion, an excellent programme has been arranged and will be relayed to 3YA.

Remarkable Growth

Amalgamated Wireless, Limited

A GLIMPSE of the early history of wireless in Australia was given this week at a gathering in Brisbane by the inter-State sales manager of Amalgamated Wireless.

In 1910 the first ships equipped with wireless arrived in Australian waters. They were H.M.S. Powerful and H.M.S. Otranto. These two vessels established a world's record by the interchange of signals at a distance of 1800 miles. The operator on the Otranto was Mr. E. T. Fisk, who was delegated by the Marconi Company to obtain first-hand information as to technical possibilities of wireless in Australia, and in the following year the Commonwealth Government embarked on a comprehensive policy of coastal stations to provide for communication with vessels at sea and between the stations. In 1923 a new company, Amalgamated Wireless (Australasia), Ltd., was formed with Mr. Fisk as general manager, and later, managing director. A majority of the shares of Amalgamated Wireless were held by the Government, which retains the right to appoint a majority of the directors.

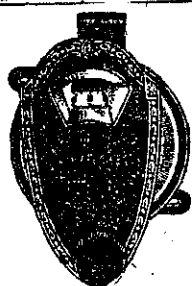
The war gave a tremendous impetus to wireless all over the world; a factory was established by Amalgamated Wireless which has now grown to a stage where not only high-class receivers and parts are manufactured, but also transmitters which are exported to the other side of the world in competition with products made abroad.

There are now on the Australian shipping register 140 ships all equipped by Amalgamated Wireless. Wireless stations built by Amalgamated Wireless and manned by A.W.A. operators dot the Pacific Ocean, the latest being a station in Tonga and a new one at Port Moresby.

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Auckland Notes Flaws in Television

(By "Listener.")

A Recent Report

THE local radio trade at the moment is much exercised upon the desirability of holding a radio exhibition, and thus falling into line with Dunedin and Wellington, who have set us so excellent an example. The one stumbling block to an Auckland exhibition seems to be the idea that the season of the year is inopportune. Many dealers and others hold that a display would produce more beneficial results, if it were held at the beginning of the season. The idea has wrongly developed, that radio is quite a seasonal pastime, that its period, like that of football, is the winter-time, that with the coming of summer listening in falls away to an astonishing extent. If all set owners were consulted, it would be found that there is almost as much recourse to the dials in summer as in winter, though the periods of tuning in may be shorter and at later hours.

It seems a pity that such a number of people commercially interested in the radio business regard the summer-time as one in which trade must inevitably fall off. A progressive policy of bringing radio before the public at all times of the year, and more particularly at such a season as provides in addition many other diversions, will soon kill definitely the seasonal idea of broadcasting. The same good standard of programmes is maintained in summer as in winter. If Auckland trade and radio societies were to combine in the running of a wireless exhibition during September or October they would stimulate listening during the summer months, and they would keep radio at its present encouraging level. The impression conveyed by a comprehensive exhibition would show effects on sales lasting well over the coming Christmas season. It is to be hoped that, when finality in decision is reached, a radio exhibition will be on the programme of Auckland events of importance for the near future. There are other interests eager to co-operate with radio in the running of such an exhibition.

ON Tuesday, the Tudor Orchestra, a body of professional musicians who had given up their own time to afford delight to the children, paid a visit to I.Y.A. They afforded it to a large number of very old children as well, for their delightful selections appealed to both young and old. It says a great deal for the enthusiasm of professional musicians that at a time such as this, when things are looking very black for them, they can come along and give their services to entertaining Cinderella's big family.

IT is difficult, without making repetitions of praise for those who have already merited and received it, to discuss programme items that maintain a uniformly good level, especially when the comments appear in print fully a week after the items have been rendered. By that time so much other entertainment has come along and been assimilated that a radio memory, to be a long one, has to be especially good. However, the point to be made is this. Growls still occur at the programmes, or more often at individual items, which do not suit a particular taste, but the body of listeners grows daily larger, while the voice of complaint dwindles daily.

IN a recent paper written for the I.R.E., C. Francis Jenkins declares that popular opinion grossly exaggerates the stage at which television has arrived. In his own words:

"All television, radiovision and radio movie systems employ the method of scanning the picture at the receiver by observing a single light point moving in successive adjacent lines.

"The generally practised method consists in sighting and fluctuating light source through miniature holes spirally located in whirling disc. In such a mechanism the light source must be as large as the picture is, preferably somewhat larger. The resultant current requirement is therefore some 2500 times greater than would be required if the light could be limited to the visible spot alone.

"In the new scanner, a drum turned four times per picture. The size of the mechanism is therefore reduced proportionately, that is, a seven-inch drum gives as large a picture as a 36 inch disc.

"This type of scanner permits the employment of but a relatively small light cathode with a correspondingly small current required to light it, in a ratio of perhaps 1 to 20 of that required for a disc scanner.

"Another advantageous feature incorporated in the drum scanner is the employment of quartz rods to overcome the inverse square light loss law. That it is very effective is conclusively shown by removing the rods, in which event not enough light reaches the drum surface to make a picture.

"Again, as persistence of vision is dependent on the assembly of the elementary areas which make up the picture, the light strength on the eye is but one twenty-five-hundredth of the spot of intensity, so that the bright scanning aperture appears very dim in motion.

"While the drum type scanner is a great advance over the disc scanner, both are believed to be inherently wrong in principle. In current-to-eye efficiency the disc is very faulty, being less than one fifty-thousandth of 1 per cent. The substitution of persistence of elementary area for persistence of vision is believed to promise far greater possibilities in development.

"A projector built on this principle for theatre screens is in work in the laboratory at this time, and with gratifyingly promising results."

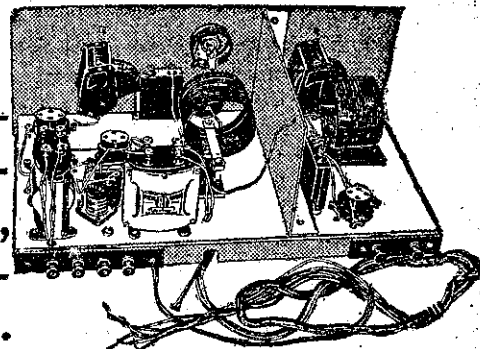
Broadcasting Education

IN "Teacher's World" there appears an article which says: "Every series of broadcast lessons will tend to limit the freedom and discretion of teacher. Every time-table would have to be drawn up with due regard to the arrangements made in London." This is a totally different statement to that made in a recent American paper which foresaw the substitution of the loudspeaker for the teacher.

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The New Zealand Radio Record

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032, WELLINGTON.

Published Weekly. Price 3d. Subscription Post Free in advance, 10s. per annum; booked 12s. 6d.

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

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

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

WELLINGTON, FRIDAY, AUGUST 30, 1929.

EXPANSION OF RADIO.

WITH the imminent introduction of Dinner Sessions at each of the four YA stations, a milestone is established in New Zealand radio. This will give a definite addition to the radio programmes, which will do much to increase their popularity in both city and country circles. Supplementary to that enterprise, the Radio Broadcasting Company is embarking upon the provision of a special service for rural listeners. Already there has been established in Christchurch a Primary Productions Committee, charged with the duty of organising this service. That committee will be duplicated in due course by similar committees in other centres, preparatory to thoroughly organising the diffusion of available information for agricultural and pastoral listeners, as provided by existing sources of supply.

THESE two major developments, covering the special needs of both city and country listeners, will initiate a progressive move on the part of dealers. Dealers in country towns in particular will, we think, be able to institute a special campaign for bringing under the notice of farmers in their areas, not only the musical and entertainment value of radio, but its definite commercial value in the provision of such services as weather reports, and more especially the special series of lectures to be given regularly later from all stations. This organisation of agricultural information is calculated to financially benefit every farmer in the Dominion by enabling him to increase his own individual production by the adaptation of scientific information and practical procedure developed by others, and thus contribute to national prosperity. We feel sure that this service will in itself prove a strong selling point for radio, if properly exploited by country dealers in contact with the farming community.

THESE progressive moves by the Company and the additional enthusiasm directed to selling radio by dealers, prompt inquiry as to whether the third party in the radio triumvirate—the Post and Telegraph Department—can do anything to assist the further expansion of radio. It was indicated at the recent radio dinner that there was one special direction in which the dealers considered the Department could render assistance. This was by a variation from the present hard and fast rule governing the issue of licenses to end definitely as on March 31 each year. It was represented that the more liquid provision of licenses on a point to point basis would contribute definitely to ease in the selling of radio and a greater gross revenue. It is proved each year that a considerable volume of revenue is lost by the interregnum which occurs after March 31. While listeners last year responded remarkably to the appeal to renew promptly, and thus permit the maintenance of the radio service on an uninterrupted standard of performance, it yet cannot be denied that many payments lapsed that should not have lapsed, and in many cases, we imagine, when renewal was ultimately made by listeners at a later period, they escaped with smaller payments than they were entitled to pay, having regard to the continuity of service they had enjoyed.

ANOTHER point in which departmental assistance can be intensified is, we think, that of the unlicensed listener. The opinion is generally held amongst those who give this matter much thought that the number of radio pirates in the Dominion is greater than it should be. In some cases this act of piracy is committed thoughtlessly. We have heard of cases in an important provincial town where respectable and reputable citizens failed to appreciate that they should pay for the radio service because their particular town did not possess a station. They considered it quite right that residents in Wellington, Auckland, Christchurch, and Dunedin should be licensed, but as their own particular town did not possess a station, why should they pay? The weakness of this reasoning is so palpable that it needs only to be mentioned for the fallacy to be exposed. As a matter of fact, the distance listener to the YA stations is the one who more than any other should pay, because it is to give him the service that the power—which involves cost—is put behind the stations concerned. In the cases reported to us, this phase had only to be pointed out for a license to be taken out; but the point is that this particular gentleman and others with him had been operating radio sets with aerials in full view of the public for over twelve months without inquiry having been made as to whether a license was held or not. It is also within our knowledge that one of the heaviest buyers of a certain class of radio set recently introduced on this market is in a provincial town in a province enjoying the lowest number of licenses. This fact certainly carries the inference that, if a provincial town can supply a volume of trade, fully comparable with that of the major cities, its number of licenses should be greater than it is.

THE revenue being drawn by the Post and Telegraph Department from its association with the radio service is now considerable, although we are aware that it is claimed by the Department that even so this branch is not profitable. The question to our mind, however, is, Would it not be profitable if steps were taken to ensure registration of radio users with 100 per cent. efficiency? The general standard of efficiency maintained by the Post and Telegraph Department in those business activities which are essentially its own is so great that we have no doubt that if the Post and Telegraph Department were entrusted with the conduct of radio as a definite branch—which is not a course which we think desirable for other reasons, but we make this supposition to illustrate our point—then we imagine that little leakage of revenue would be permitted. No less a standard of efficiency should obtain under the present circumstances. We are hopeful that now that the future of radio is so bright, by reason of the expanding service being provided by all stations, the Department will see its way to meet the radio trade by more elasticity in the matter of the license term, and more especially embark upon a strong campaign for the stopping of that big leak in radio which is affecting the service rendered to every existing licensee. Further expansion and further enterprise on the part of the radio service depends upon revenue. If that revenue is provided, then all contributories will benefit.

THE stand taken by the Wellington Magistrate last week in imposing a penalty of £10 on an individual who operated a set while unlicensed marks an encouraging appreciation of the weight of this offence. Only too frequently in the past it has happened that when the P. and T. officers have done their duty and brought offenders to book, Magistrates have imposed fines that were woefully inadequate. The standard set in this case should encourage the Department to prosecute its cause with rigour and undoubtedly will have the effect of impressing upon others who may be unlicensed the necessity of immediate registration.

Old-Time Dance Programme

Special Attraction Arranged for 3YA

A PROGRAMME which will stir the reminiscences of the older generations has been arranged by 3YA for Saturday, September 14. It will take the form of an old time dance evening, when those who once tripped it gaily to a time and rhythm unknown to dancers of the present day, will be able to listen in to schottisches, Alberts, barn dances, mazurkas, lancers, waltzes and quadrilles and military two-steps, once dear to the heart of lovers of the light fantastic. It is difficult to secure the instrumentalists to play a dance programme of the old style, but 3YA has been able to engage the Williams Orchestra for this evening and a rare old treat is in store.

Boxing Championships Dinner Music Session for IYA.

Leckie v. Shack

THE New Zealand Amateur Boxing Championships are to take place at Greymouth on Thursday, Friday and Saturday of this week. The broadcasting stations will announce the results each night, and on Saturday evening, from 8.30 till 10 p.m., a ring-side description will be relayed to 3YA and 4YA.

On Thursday evening, 4YA will broadcast a description of the Leckie-Shack fight. This will be Leckie's first public appearance since his return from Australia and his meeting with the American will arouse much interest.

New Zealand Music and Literature

Special Programme

ESSENTIALLY New Zealand is the programme which will be presented by IYA on Friday evening next week, September 6. Every item will be the work of a New Zealand composer or author.

Two vocal numbers, "There is a Quietness Among the Lilies" and "Horses of the Dawn," are the work of the Auckland composer, Miss Mary Brett. Other local composers whose works will be presented include Mr. Maughan Barnett (the Auckland city organist), Mr. John Tait (well known in musical circles), and Mr. Birch, who wrote the poem of the well-known "Anzac Anthem."

Two humorous sketches will be presented, "To Let," written by Mrs. A. Carr-Tibbetts, and "Rejuvenated," by Mrs. Nello Porter, both members of the New Zealand Penwomen's Club.

The Studio Trio will play four movements from "Trio in D Major," written by the brilliant Auckland musician, Mr. Eric Waters, whose "Melody in C" will also be played by Miss Mollie Wright, cellist. Madame Mary Towsey will sing "The Lady Passes," by Maughan Barnett, while Mr. John Bree will sing "The Valley of the Shadow," by Audrey Gibson Foster. Contralto solos to be sung by Miss Ina Thomson include "Avalata Maori," by Alfred Hill.

The IYA Broadcasting Choir, whose debut on August 6 proved such a wonderful success, will perform two items—one by John Tait, and "Anzac Anthem" by John Youlin Birch.

An interesting talk on "New Zealand Authors" will be delivered by Mr. Karl Atkinson, whose gramophone lecture-recitals are so much appreciated by listeners. An entertaining half-hour with "Modern Maori Melodies" will be given.

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.

Available everywhere.

To Commence on Tuesday, September 3

FOLLOWING on the statement in last week's "Radio Record" regarding the dinner music session which it is proposed to introduce at IYA, the general manager of the Broadcasting Company, Mr. A. R. Harris, now announces that the session will be introduced on Tuesday, September 3.

The programmes to be presented have been arranged and are published in this number of the "Radio Record." Last Monday saw the new session commenced at 3YA, and it sprang into instant popularity. It is evident that no portion of the broadcasting service will enjoy greater popularity than will the session which fills in the time between 6 and 7 p.m.

As in the case of the other stations, the IYA children's session will commence at 5 o'clock.

Radio Pirate Fares Badly

Strong Action by Wellington Magistrate

IN Wellington last week an unlicensed listener was fined £10 for owning and operating a set without right of license. This will probably mark the general adoption of a heavier range of fines for this offence. Previously there has been a tendency to regard this action as somewhat inoffensive, but better appreciation of the facts is now obtaining. Such an individual is robbing not the Company but the whole body of broadcast listeners, and is preventing them securing the standard of service sought by all. Stiff fines of this character imposed throughout the country for the future will encourage the P. and T. Department to an active prosecution of offenders.

In commenting on the case, "The Dominion" said editorially: "Ten pounds seems a fairly severe fine for listening-in with an unlicensed wireless set, but the individual who was thus dealt with by a Wellington Magistrate last week will probably receive little sympathy from the thousands of licensed listeners-in upon whose preserves he has been poaching. This kind of pirating is very difficult to detect, and it is right that offenders when caught should be sharply dealt with. If poaching were allowed by official laxity to become prevalent the result would mean a diminished revenue for broadcasting and a corresponding falling-off in the quality of the programmes. From this point of view those who are honest enough to take out licenses have an interest in co-operating with those in authority in checking the poachers, for they are co-partners in the enterprise."

"The Norman Baron" Up to Time

4YA to Broadcast Cantata Broadcast of Golf Results

AT Dunedin on Monday, September 2, The Majors will present Anderson's fine cantata, "The Norman Baron."

(This poem by Longfellow, which is the subject of the descriptive cantata, has been set to music by Orsmond Anderson, sometimes incorrectly referred to as Anderson. The theme of the cantata is the life of a Norman baron on his feudal estate, the music during the opening portion of the composition being descriptive of the lordly rule of a tyrant. The closing portion of the music is soft and melodious in character, typical of the baron's repentance on his deathbed for his acts of tyranny, and the closing stanzas typify the pardon which the baron grants his slaves.

THE multi-thousands of golf enthusiasts in New Zealand owe a great debt to the Broadcasting Company for the reporting of the results of the Amateur Golf Championships at present being played in Australia. The enthusiast "out way back" hears the results very much sooner than if he had to wait for the daily paper. Country golf clubs have even installed sets for the convenience of their members, and it was not an uncommon sight to see players hastening towards the pavilion as soon as reports were expected.

These reports will be broadcast as soon as they come to hand during the coming week, and these results will be the results as they stand at the end of the day's play.

Hockey

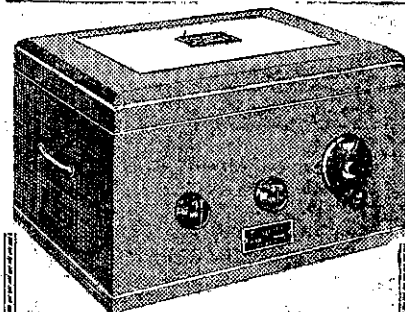
Ladies' Tournament

THE New Zealand ladies' hockey tournament is to be held at Gisborne this year, the tournament commencing on Thursday, August 29. The results of the various rounds will be broadcast by 2YA.

Waitomo Caves Concert

For September 20

ARRANGEMENTS are well in train for the concert which is to be given in the famous Waitomo Caves and broadcast on relay by IYA. This concert, which is to take place on Tuesday, September 20, will be a very interesting test for the acoustic qualities of the caves. Apart from the unique setting which the concert will have, a very entertaining programme has been arranged and will be given by the IYA and other artists, who will visit the caves specially for the occasion.



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The Courier Electric Model E.S. gets the stations, Local and Australian, and does it without an aerial! An ingenious new arrangement of the amplification circuit combines an electric screened grid with a pentode valve. A super-sensitive and sweet-toned set is the result. Note the six unusual features:—

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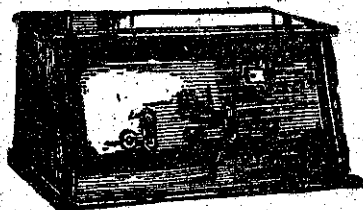
Relay from Victoria College "Danger" and "Galapagos" Lecture-Recital at 3YA

ON Friday evening, August 30, 2YA will carry out another relay from Victoria College Hall, where the University Debating Society is to discuss the subject, "That the continuance of the capitalist economic system is in the best interests of civilisation."

The subject is one of three to be debated by the Victoria University College touring team while in America and Canada. The affirmative will be taken by the members of the team, Messrs. W. J. Mountjoy, G. R. Powles, and W. J. Hall. The speakers to oppose the motion will be Mr. P. Martin-Smith, Miss C. F. Forde, and Mr. W. P. Rollings.

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Sirs,—Please send me particulars of the 6-Valve Crosley 6-60 Model, and other Special Values you are offering in Sets and Accessories.

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THERE are to be two special attractions at 2YA next week—on Monday evening the remarkable radio play "Danger" will be repeated in answer to numerous requests, and on Friday evening the equally remarkable dramatic play "Galapagos" is to be presented.

"Danger" has been played three times for the British Broadcasting Corporation, and that fact is in itself eloquent testimony. "Galapagos" is an American production. Both plays rely very greatly on noises and "effects," combined with clever dialogue.

"Danger" will again be staged under the direction of Mr. Victor S. Lloyd, and the producer anticipates that the coming performance will be even better than the last. The actors are busy rehearsing their respective parts. On this occasion there will be a change in the cast, the part of Jack being taken by Mr. Victor S. Lloyd. Mr. E. A. Clark, who played this part on the occasion of the first performance, will take the role of Mr. Box.

The presentation of "Galapagos" will be under the direction of Mr. J. F. Montague, who produced the play at 1YA some months ago, when it received a rapturous reception. His lieutenant will be Mr. George Warren, the remainder of the cast being Wellington performers.

"Danger."

THERE is no doubt that although "Danger" was the first play specially written for Radio, no Radio play has since been written that surpasses it for sheer artistry, dramatic action, and perfection of form.

In every way "Danger" is a perfect Radio play. The setting is unusual and forms a perfect background for the very natural dialogue; the characters are drawn boldly, with sympathy, and indicate the author's great understanding of human foibles and shortcomings.

There is a really wonderful contrast of the effects of fear on widely different characters, and an illustration of the fact that heroism shows itself in the most unexpected people in moments of crisis.

It was obvious from the previous presentation of "Danger" that the producer had fully grasped the possibilities of the play, and had spared no pains to carry out the author's intentions.

Those who took part in the play were obviously affected by the deep, dramatic purpose of the play, and acted their parts with evident sincerity.

That their efforts were appreciated is proved by the number of requests that have been received for the play to be repeated.

Listeners will be glad to learn that arrangements have been made for "Danger" to be presented again from 2YA on Monday, September 2.

Have you secured 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

PASSING through Christchurch on the way to fulfil an engagement as musical judge at the Ashburton Competitions, Mr. Will Hutchens will give a lecture-recital at 3YA on Wednesday, September 4. Old English Folk Songs will be his theme. He will himself sing the old melodies to illustrate his lecture.

Mr. Hutchens is a well-known Wanganui musician, with a Dominion-wide reputation. He is one of a very musical family. His younger brother is the well-known Sydney pianist Frank



Mr. Will Hutchens.

Hutchens. His father was a choir and orchestral conductor. Born in Christchurch, Mr. Will Hutchens went to the North Island at an early age. He studied at the Royal Academy of Music, London, having as his singing master the late Frederick Walker, formerly master of the choir boys at St. Paul's Cathedral, and who sang the part of the youth in the "Elijah" when it was first produced in England under Mendelssohn's own conductorship.

Mr. Hutchens studied the violin under Philip Cathie, now conductor for Matheson Lang, and leader of the famous Cathie Quartet, and harmony with Professor Paul Corder.

Returning to New Zealand, he spent some years in teaching, and as musical director for a theatre, before returning to England, where he became a mem-

A CONCERT is being organised in Hawera, the proceeds of which are to be devoted to installing radio receiving equipment in the local hospital. The concert is to take place on Tuesday, September 24, and will be broadcast by 2YA.

Mr. Montague at 3YA

To Present a One-act Play

CHRISTCHURCH listeners in particular and South Island listeners in general will welcome the opportunity of hearing Mr. J. F. Montague at 3YA on Wednesday, September 4. They will also hear him from 2YA on Friday, September 6, when his production of "Galapagos" will be rebroadcast by 3YA.


Mr. Montague proposes to produce at 3YA Miss Betty Kerr's one-act play, "The Devil's Rock," prize-winning entry in the 1YA one-act play competition. Miss Kerr's home town is Timaru. Besides the one-act play Mr. Montague will contribute a humorous item.

As a radio entertainer, Mr. Montague is very popular with Auckland listeners. Under his direction the Auckland Comedy Players have produced many very enjoyable plays. This will be his first appearance at 3YA, and Christchurch listeners will not miss the chance of hearing him.

Incidentally, it may be remarked that he appears the same evening that Mr. Will Hutchens is giving his lecture-recital on old English songs, so the evening's entertainment will be of exceptional merit.

Member of the National Orchestral Association, and played for a number of London theatres and also spent a season with the Weymouth Municipal Orchestra, together with Mr. Leon de Mauny, now of Wellington. Returning to New Zealand in 1922, he settled in Wanganui, and has been for seven years conductor of the Wanganui Orchestral Society, and also of Trinity Church Choir.

Other activities include two years as president of the Wanganui Society of Professional Musicians, leadership of the Wanganui String Quartet, and Orchestral Conductor for the Savage Club. He has adjudicated at seven competition festivals within the last two years.



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"Canterbury Radio Journal"

Incorporated in "Radio Record"

WITH this issue of August 26, the "Canterbury Radio Journal," the organ of the Christchurch Radio Society, transfers its separate entity to incorporation in the "Radio Record." This journal has been in effective operation for some five years, and in that time has rendered a distinct service to the cause of radio in the City of the Plains. We are glad to perpetuate the name of this pioneer radio journal in our own columns.

The editorial of the concluding number of the "Canterbury Radio Journal" is as follows:—

THE "Canterbury Radio Journal" commenced its existence in September, 1924, and has with this issue completed its fifth year of publication. Arrangements have been made by which the "Journal" will now be incorporated with the "New Zealand Radio Record," commencing with the September issue.

The writer has had the honour of being associated with this, the oldest surviving New Zealand radio periodical, since its commencement, having been asked to contribute technical articles until taking over the sole editorship two years ago.

Reviewing the history of the literary venture, to Mr. L. G. J. Slade must go the credit of initiating the movement which resulted in the "Canterbury

useful role in many ways in an educative capacity. It has always striven to preserve harmonious conditions amongst traders and listeners alike, in the interests of the general development of radio in New Zealand, to be a lubricant and not an abrasive.

It will have been noticed that we have always taken up a sympathetic and helpful attitude towards the Radio Broadcasting Company's service, and

A Great Record

412 Stations Logged

MR. S. R. ELLIS, of Okato, Taranaki, sends a cutting from "Radio Digest." This cutting tells of an invalid lady, Miss Jennie R. Miller, of New York, who has been bedridden for 20 years. She has won many trophies for long-distance reception, and of these she is very proud. She writes: "I am an artist and spend most of the daylight hours painting pictures, being gifted with this lovely faculty since I was old enough to hold a pencil. I love this work, and I suppose that you wonder how I can work though in bed, but where there is a will there is a way."

"The longest distance I have ever had is 3LO, Melbourne, but I have also had 10W, Buenos Aires, Argentine, and 5NO, Newcastle, England. It is no trick at all to pick up FK1, Los Angeles, or PWX, Havana."

"It was last summer that I first picked up the Australian station. I was keyed to tune in the bulletins of the flight of the Bellanca to Berlin. At 3.15 a.m. I picked up a very weak signal, and a few seconds later I heard a man speaking. But the static was noisy, so I just marked the dial setting and determined to try it again."

"The next cool evening that came along I began listening at 3 o'clock. At 3.05 I heard the call 3LO, Melbourne. It was very clear and distinct, and then I heard very clearly a piano solo. As long as I live I will never forget the thrill of those precious moments."

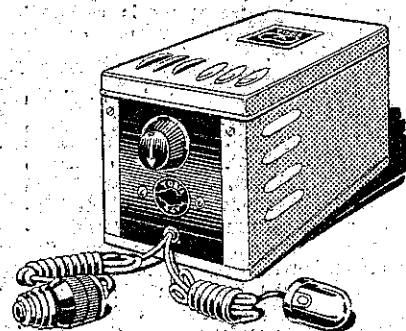
company, and we recommend our readers and advertisers to give such an excellent magazine as the "New Zealand Radio Record" the opportunity to cater for their needs. To one and all we tender our thanks, and under our present title we now bid our many valued readers a kindly adieu.



The Snappy Three. Mr. Arthur Prentice, Miss Beryl Poulton and Mr. Irvine Birch. A very versatile 1YA combination in great demand at many concerts in city and country.

—S. P. Andrew, photo.

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Radio Journal's" birth. Sponsored also by Messrs. E. J. Bell, E. W. England, L. F. Ball and H. P. V. Brown, the modest little sixteen-pager made its debut. The associated editors all endeavoured (and they were learners themselves) to cater for such needs as they considered a journal of such limited size and scope was capable of covering. They reaped much pleasure in so doing, and kindly letters at different times have shown that their efforts have been appreciated and a gratifying measure of success achieved.

The life of a local magazine of this description is to a large extent dependent upon its advertisers, and we therefore take this opportunity to thank those radio dealers who, by their consistent advertising support, have enabled the "Canterbury Radio Journal" to continue its office of usefulness for five eventful years. Without the advertising patronage of the trade it would have been at times difficult to carry on, and the encouraging assistance received has been highly appreciated. Some firms have thus supported the "Journal" since its very inception.

It was Mark Twain who, when he heard of his own decease, remarked that the report was somewhat exaggerated. The "Journal" has had this experience also in unfounded rumour form; but we have not in the present circumstances to write our own obituary notice, for it savours more of matrimony—a case where "twain shall be made one" (no journalistic pun intended!). It must have been gratifying to the publishers to have been able to carry on over periods when commercially the radio trade was in deep water. We believe that the "Canterbury Radio Journal" has filled a very

have resolutely held aloof from the occasional outbursts of criticism which we think, subsequent developments have proved unwarranted and unfair. The fact of such uniform friendliness between this journal and the official broadcasting organisation makes it an easy matter to accept with favour the incorporation of the "Canterbury Radio Journal" with the official organ of the

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Hastings Concert

A Brilliant Success

THE special concert organised by the Hastings Radio Society on Thursday evening last for transmission to 1YA was a notable success. Practically the whole of New Zealand listeners were treated to a concert of outstanding merit, much talent not hitherto heard on the air being made available by the enterprise of the Hastings Society. Considerable enterprise was shown, too, in relaying the Hastings performances to a Napier concert hall, where another large audience listened to it by means of amplifiers and loudspeakers. By this means extra funds were secured for the objective, viz., the installation of radio in the Napier Hospital. In the latter part of the programme, the Bishop of Aotearoa, who is president of the Hastings Radio Society, outlined the objective of the concert, and invited contributions from his vast unseen audience of radio listeners. Such contributions can be sent to the secretary, Radio Society, Hastings.

Favourable comment as to the success of the function has appeared in a number of daily papers. We make the following extracts from the Christchurch "Star" by "Aerial":—

If anyone had prophesied three years ago that, in 1929, listeners all over New Zealand would hear a concert performed in Hastings, relayed by land line to a concert hall in Napier, and put on the air for another audi-

ence there, by means of amplifiers and loudspeakers; that the Hastings concert would, further, be relayed by land line to Wellington, broadcast from there, be picked up and rebroadcast in Christchurch, and, still further, be relayed from Christchurch to Dunedin, and rebroadcast there—well, we should have looked on him (or her) as being (to be polite) a very foolish person. Yet it was an accomplished fact last night—thanks to the Hawke's Bay Radio Society, the Radio Broadcasting Company and the Post and Telegraph service.

The concert was quite well done and that listeners (in Christchurch at least) did not enjoy reception that was beyond reproach was no fault of either the performers or the broadcasters. There was a trifle of land line induction audible—and it was a wonder it was so slight when the great distance covered by the land line is taken into consideration.

It was a curious fact that, heard direct—on "Aerial's" receiver at least—2YA, Wellington, suffered somewhat during the early portion of the broadcast from both fading and distortion, whereas 3YA's rebroadcast of 2YA did not show these defects to the same extent. After 9.45, station 2YA was again tuned in and reception, in the main, was first-class.

And that is not the whole of the story. Happened to tune in 1YA, Auckland, at 10.30, and discovered that that station was also rebroadcasting 2YA's relay of the Hastings concert. And did it well, too. 1YA cut over to their own programme for a time, but put the concluding portion of the Hastings concert on the air.

After last night's feat almost anything in the way of land line relays, simultaneous concerts in various towns (as with Napier last night) and rebroadcasts are possible of accomplishment by co-operation between towns, the Radio Broadcasting Company and the Post and Telegraph Department.

Panel Polish

THE following recipe is an excellent one for making an effective polish for ebonite and composition panels of the bakelite type. Even the most highly polished radio panel tends to dull when exposed to the impure atmospheres of our manufacturing towns, but the application now and again of a little of the following panel polish will not only remedy this dulling effect on the panel of a receiver, but it will also serve to prevent atmospheric deterioration and colour changes taking place within the panel material itself.

Pure sweet oil	5 parts
Camphor	1 part
Castor oil	1 part
Methylated spirit (to which a few drops of ammonia have been added)	1 part

Shake the mixture well in a bottle until the camphor has dissolved completely. The polish will then be ready for use, and, stored in a cool place, it will keep its good properties for an indefinite time.

For use, apply very sparingly to the surface of the panel, using a perfectly clean and soft rag. Finally, rub the surface of the panel over with a dry, soft duster.

Hawera Hospital

Equipped with Radio

THE Hawera Hospital, thanks to the activity of local enthusiasts, is now equipped with radio, thus enabling the patients—or at least a large proportion of them—to enjoy the benefits of music over the air.

The scheme has been designed to provide for 85 "pillow-phones" for patients. Each of the three main wards has 24 of these outfits, and there are three in the annexes to the children's ward and ten in the isolation ward. There are also two loudspeakers in the children's ward and two in the nurses' home. These are all connected by cables with the receiving room, a small room off the main corridor, in which there are three visible appliances—a six-valve Atwater Kent radio set, an electric gramophone with a special device enabling gramophone music to be broadcast throughout the hospital, and an amplifier, which increases the volume of the sound gathered from the air.

The lead-covered cable required to link up all the sections of the installation in the hospital building is about a mile in length. The contractor for the installation was Standard Telephones and Cables, Ltd., of Wellington.

The installation is already in use, but it is probable that there will be an official opening ceremony before long. The cost of the radio was subscribed by the people of the district.

A Radio Concert.

ARRANGEMENTS are in train for the production of a radio concert in Hawera, which will be broadcast to every quarter of the Dominion, and even further afield (states the "Taranaki News"). Some time ago Dr. J. McGhie, himself an enthusiastic radio amateur, made a special trip to Wellington with the object of interesting the Broadcasting Company in the project. He is now in receipt of a letter from the company's headquarters in Christchurch stating the company will be pleased to co-operate in broadcasting a concert in Hawera. It is pointed out that it will be necessary to obtain the consent of the Telegraph Department to the use of a land line from Hawera to Wellington, but no difficulty in this connection is anticipated.

Dr. McGhie is hopeful of receiving the support of the best concert performers in South Taranaki for this entertainment, the proceeds of which will be devoted to the Hawera Hospital radio fund.

IT is claimed that the Hawera District Hospital is one of the most modern and completely equipped hospitals in Australasia. Built about two years ago no effort was spared by its designers to make its construction conform to the latest practice as carried out in Europe and the United States.

There appeared to be only one thing which the hospital lacked, and that was a radio installation, and it was not long before the residents of Hawera and outlying districts decided that this omission should be rectified. A strong committee was formed for the purpose of raising funds, and due to the energy of the honorary organiser, Mr. L. O. Hooker, a substantial amount

was obtained, and early in the year a consulting engineer was called in to advise the committee as to the equipment.

The control room, which is situated in a central position, contains an all-electric receiver, the audio frequency amplifier of which has been removed. This feeds into a power amplifier, the final valve of which is a UX250 capable of supplying about 4 watts of undistorted power. Coupled to the power amplifier is an electric gramophone, with motor turntable and magnetic pick-up, and by moving one switch the receiver is disconnected and the gramophone connected to the amplifier. This arrangement enables gramophone concerts to be given to the patients when no broadcasting stations are transmitting.

The power amplifier is connected through a filter to the main distributing system which consists of lead-covered cables suitably protected by casing running under the floors to junction boxes below each ward. In the wards equipped with headsets and pillowphones, the cables protected by a casing are run to a jack box at the head of each bed, the box and casing being finished in white enamel to match the walls. The children's ward is fitted with two large loudspeakers placed in positions to give the best effect.

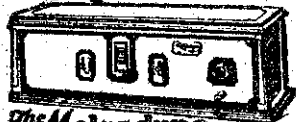
The distributing network consists of pillowphones, headsets, and speakers, grouped in such a manner that the load on the power amplifier is of correct impedance to prevent distortion. The balancing arrangements are such that speakers and pillowphones get their correct proportions of the total energy. Each jack box is provided with a jack switch and impedance coil of the same electrical characteristics as the speaker or headset, so that if only one pillowphone is in use, the volume is no greater than when all pillowphones and speakers are in use. Immediately a headset plug is removed from jack box the impedance coil is cut into circuit.

THE quality of reproduction has been considered of great importance, and the tonal qualities of the speakers and pillowphones are quite equal to that obtained from the highest grade receivers. The pillowphones, which consist of a pillow in which a telephone receiver is concealed, are mainly for the use of patients lying down, while for those sitting up headsets are provided. The isolation hospital, which is connected by air line with the main building, is fitted with headsets and pillowphones.

The nurses' home is provided with a separate receiver operating a loudspeaker in the sisters' and nurses' sitting-rooms. This was done, as it was considered that the time when the nurses would want to listen to concerts would be after the main plant had been closed down.

The installation was designed by Mr. C. R. Russell, M.Sc., A.I.E.E., of Christchurch, consulting engineer to the Radio Committee, and the work was carried out under contract by Standard Telephones and Cables, Ltd., of Wellington, in conjunction with Mr. W. W. Davy, of Hawera. In his report to committee, Mr. Russell expressed his satisfaction with the work, and stated that the contractors had used a very high degree of workmanship in carrying out the specifications, and that the installation would compare favourably with any similar one in Europe or the United States.

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"SWITCH" has been asked to express his opinion on the quality of the programmes now being broadcast by the four A class stations in Sydney and Melbourne, under the new Australian Broadcasting Company's regime. The writer has no hesitation in stating that there is a marked all-round improvement. There is now far more variety in the class of entertainment, and the personnel of the performers. Whether in "popular" contributions or classical numbers, the performers are of a generally higher standard. Famous artists not previously heard are now being broadcast, and such events as last Saturday evening's broadcast of the wonderful concert by the New South Wales State Conservatorium of 75 musicians, with solos by famous artists, bears evidence of the enterprise of the new regime.

THERE appear to be certain zones, such as around Eketahuna, where 2YA, Wellington, is received with distortion, although the "big voice" is rally heard superbly far and wide. 2YA is picked up at Christchurch with such clarity and rebroadcast by 3YA that it is difficult sometimes to realise that one is listening to a rebroadcast instead of reception direct from 2YA. In Eketahuna through some obscure reason 2YA, Wellington, is undoubtedly distorted. The United States Government Bureau of Standards has proved that this distortion may be due to interfering ground waves. When 2YA was on reduced power some time ago reception of that station was distortionless in Eketahuna. This may indicate that the ground waves were then of insufficient strength to occasion the interference causing distortion.

MANY listeners will have observed that their sets are more sensitive on a certain set of their tuning dials. For instance, some listeners consistently receive the shorter wave stations better than the longer wave stations. Others find that those stations on a medium wave-length come in best. This "peak" finds its origin in the radio frequency amplifying stage or stages of a set. In some cases the makers have overcome this by a device sometimes called an "inductor," which is adjustable and acts like a vernier tuner. The writer's set is equipped with such a device.

A WELLINGTON radio technician sounded a warning note to those listeners who contemplate importing their own A.C. sets from America. The standard electrical supply in the United States is 110 volts, while that of New Zealand is 230 volts. If a pur-chaser orders his set to be adapted to the higher voltage he should be sure that the chokes and condensers are also suited to the increased voltage. The local radio technician had examined a disabled set which had broken down through the makers not altering the chokes and condensers to suit the New Zealand 230-volts standard electric supply. Only the input transformer was suited to the increased voltage.

A most polite gentleman, not previously heard by "Switch," was describing a wrestling bout in Sydney, per medium of 2BL, the other night. When one of the contestants was kicking the other on the chin to escape from an awkward hold, the announcer said: "—is jolting his foot, if I may be permitted to say so, against —'s chin." Really, one must be careful

not to offend these modern gladiators for they have been known even to "jolt" the referee with their fists.

A CERTAIN Wellington hostess recently conceived the excellent idea of giving a radio evening. None of her two dozen guests was familiar with broadcast listening and most enjoyable entertainment was provided with a de luxe receiving set and electro dynamic loudspeaker. 2YA, Wellington, 3YA, Christchurch and 1YA, Auckland, provided the items of the evening. With the aid of the programmes published in the "Radio Record" the guests were offered a wide selection to choose from. The hostess informs "Switch" that the evening proved an incomparable success and her guests went away delighted with the entertainment which, to them, was quite unique.

IT is not generally known that New Zealand ranks third to the United States and Canada among all countries in the world for the number of telephones per 100 of the population. In New Zealand there is an average of nearly ten telephones per hundred persons. The time may not be far distant when the same enviable distinction will be attained in the number of broadcast listening licensees in this country.

"GRAMO" (Wellington) sends along a plea for the occasional inclusion in broadcast programmes of what he describes as "that delightful item 'Good Night,' written around the bugle call 'Lights Out.'" "Switch" recalls this record being heard from various Australian stations. It came through from 2UE, Sydney, one night last week, as the concluding item. Joe Aarons's jazz band used to play and sing this item as the final number when they were under engagement to 3LO, Melbourne. This reminds "Switch" of the tuneful foxtrot "Meadow Lark" which ran the full limit of popularity on the air from the Australian stations, but has seldom been heard from the YA stations.

A BEGINNER who has a decided aversion to radio masts because "they spoil the appearance of one's property," sought "Switch's" advice recently on the advisability of running an aerial inside his roof when he purchases his nine-valve A.C. set. It was explained to the beginner that an outside aerial is about three times more powerful than an indoor makeshift, and that there was no reason why a couple of well-stayed, neat, aerial

masts should constitute a disfigurement to any property no more than would a flagpole set up on the lawn of a house. The inquirer was converted from his strange aversion.

IN last week's issue of the "Radio Record" one "Kauspanka" (Hastings) gives some interesting particulars of the wavelengths and power of the various Japanese stations, according to a card he had received recently. Let us compare the wavelengths he gives with those published in the "N.Z. Radio Listeners' Guide" of 1929-30:—

Station.	Kauspanka's List.	N.Z.R. Guide.
JOAK	345 metres	375
JOBK	400 metres	385
JOCK	370 metres	360
JOFK	353 metres	353
JOGK	380 metres	380
JOHK	390 metres	396
JOIK	361 metres	361

The wavelengths given in "The N.Z. Radio Listeners' Guide" are endorsed by Australian and American lists. If Kauspanka's list is the latest, changes of wavelength have probably been made in the case of four of the Jap stations—quite a feasible suggestion.

REGARDING the Jap stations, what puzzles "Switch" is his regular reception, nightly, of a Jap station on about 770 kilocycles, which comes in loudly. The announcer's call letters more frequently sound like "JOAK" than "JOHK." The latter may be what the Jap announcer is endeavouring to pronounce, but several times lately his pronunciation came through as "JOAK." To the surprise of "Switch" he has several times heard the same items being broadcast simultaneously by that station and another Jap station just shorter in wavelength than 2BL, Sydney. According to Kauspanka the latter station is JOAK (which is seemingly correct),

and JOHK has been rebroadcasting JOAK. This would account for the call letters "JOAK" being heard from JOHK.

A WELLINGTON listener whose aerial swung as loose as the average clothes line was surprised when he found long-distance stations fluctuating in quick jerky cycles during the recent southerly gale. He blamed his batteries, but they stood up to an expert test. Then he had a new grid leak fitted, but the fluctuations persisted. He asked "Switch" to glance over his outfit, and when he was persuaded to tighten up the aerial reception became normal.

OCCASIONALLY the Wellington Radio Society distinguishes itself by passing some more or less stupid resolution, but this sort of thing generally gets past when there is not a sufficient number of members of the executive present to block it. The motion suggesting that the Broadcasting Company should limit each artist to one item per programme is a case in point. There is not a broadcast station in Australia, let alone in New Zealand, which would adopt the suggestion, and, furthermore, the subject is one which too intimately concerns the business aspect of the Broadcasting Company to warrant its serious consideration by the company.

THE relay and rebroadcasting of the Hastings Radio Society's concert from Hastings was another triumph for the Broadcasting Company. Not only was reception from 2YA, Wellington, exceptionally clear, but the other YA stations heard by "Switch" reproduced the concert with superb effect.

AT the recent Wellington Radio Exhibition a novice expressed surprise at the sensitivity of the latest a.c. sets, having "read somewhere that the new batteryless sets were not as sensitive as the older battery-type sets." Since then he has purchased an a.c. set, and has a verified list of 29 broadcast stations in his log. A lot of "moonshine" was circulated about the a.c. sets at first, but the better class of this type are running rings around battery-type sets.

THOSE who keep a careful check on the frequencies of the various stations must have noticed that station 4QG, Brisbane, has raised its frequency again (dropped in wavelength). This station is now rather close to JOHK, the Jap, which "Switch" finds comes in best of all the Japanese stations. 4QG is not as loud as it used to be, although it is coming in with good volume.

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AT the end of 1928 the wireless apparatus in the United States was valued at \$325,000,000. This is an increase of \$50,000,000 on the previous year. The number of amateur listeners is at present 35,000,000, while in 1927 it was 26,000,000. In 1921 the number was 7,500,000, and the number of dealers has doubled itself in the last year.

HOLLYWOOD studios and their talking pictures are to have an air policeman to guard them against the noise of airplane motors. It will be a captive balloon at 400 or 600 feet with a 1000-watt lamp on its highest point for night duty. The rule will be that no plane can fly lower than 2500 feet within a certain area of the balloon. In the case of violation, reports will be made to the Hollywood Department of Commerce, which will discipline the offender. If the offence is repeated more than twice, the pilot's license will be suspended.

NEW ZEALANDERS will be interested to learn that a fellow-countryman has been appointed to the position of day announcer for station 2FC. The new announcer is Mr. Conrad Charlton and is best known as an actor. He played in "The Student Prince," "Madame Pompadour" and the "Vagabond King." Mr. Charlton saw three years' active service abroad with the New Zealand Forces and was badly wounded.



CONTINUED increase in the number of licensed listeners in European countries is indicated by statistics for the year 1927 and 1928. The total number of license-holders rose from 5,897,000 to 7,163,000, or 21.4 per cent. The British total on January 1, 1929, was 2,684,941, the German 2,635,537. The following is a tabulation of the number of licensed radio receivers per 1000 inhabitants:—

	1927	1928
Denmark	57.05	76.42
Sweden	54.68	63.47
Great Britain ..	56.91	59.48
Austria	47.79	53.81
Germany	33.49	43.92
Norway	22.9	22.9
Hungary	10.41	20.1
U.S.A. (estimated)	68.1	90.9

A BROADCASTING bill has been formed in France which looks like becoming law. The following points are mentioned. A State monopoly, National Office of French broadcasting to be formed, tax £1 on every valve set, all sets must be declared within a month of the Bill becoming law, and all purchases of sets to be declared within eight days of purchase. Advertising is not to occupy more than one-tenth of broadcasting time. There is to be established a short-wave station for the benefit of French colonies.

The B.B.C. announcer, in dealing with the Vesuvius eruption caused some joy to millions of listeners, in spite of the tragic subject, by informing them that the "lager flowed down the mountain-side towards the villages." The alteration was quickly made to "lava," but it was too late. Truly a country flowing with milk and honey.

THERE has now been formed in England, the Railway Radio Co., Ltd. The nominal capital is only £1000, but to offset that, its articles provide that it shall acquire any inventions, patents any any secret process to and in connection with radio communication, to and from railway trains. "Popular Wireless" remarks that a process to soften railway soap would make their fortunes.

IT is indeed a mystery how listeners in the larger towns of America can achieve any degree of listening comfort. New York has 23 stations, Chicago 21, Philadelphia 12, Seattle 11, Los Angeles and Portland have 10 each, Boston, St. Louis, Frisco and New Orleans 6 each. New York State has 45 in which it is second to California with 46.

THE General Commissariat of Algeria has undertaken the construction of a huge radio station, which is to be completed in 1930. One reason for this station is the ever-increasing necessity for a means of informing tourists of coming fetes of interest, and also of a means of communication to the sparsely-settled Algerians of news

of interest and importance. There is also a desire to provide a means of stimulating interest in music and in the classics.

THE proprietors of an English mine in Lancashire have installed in the pit of this mine, 400 feet below the level of the earth, a loudspeaker, which blares forth concerts broadcasted from Glasgow. The use of this set is not only confined to enjoyment, for in the event of any accident, information can be conveyed from the local station, thus saving seconds which might separate life and death.

THE Columbia Broadcasting Co. has decided to build new headquarters having 32 stories. There is to be a means of co-operation with the other 51 stations which are under the same board of directors, and also accommodation for 250 musicians. The building is to be so constructed that practically all extraneous sound is excluded. Space is to be left for a television studio which is to be equipped as television progresses.

A LARGE firm in Copenhagen has begun to hire out receiving sets. The company makes a special type of apparatus which it does not sell, but only hires for small sums. A very great number of sets have already been hired. Meetings of protest have already been held at which the Danish radio trade discussed whether or no, this was dishonourable competition. As a protest against the action of this electricity company, traders have resolved not to use any electricity on three days a week in order to make their dissatisfaction known to the public.

AFTER a conference with the Pope Signor Marconi announces that arrangements have been made for the installation of a broadcasting set in the Vatican. The work is to be begun immediately, necessitating the construction of a temporary railway. The masts of this station are to be placed near the ancient walls of the Vatican and on the building of a new seminary. The power will be equal to that of the station endowed by the Italian Government at the Basilique St. Paul.

THE B.B.C. estimate that their concerts are listened to by 14 million people or 28 million ears. This should surely bring about an epidemic of stage fright on the impressionable artists of English studios. The person who is on the air is wont to underestimate the number of his invisible audience, and it would be indeed interesting (if it were possible) to discover the exact number of people around the world who hear the same concert at the same time.

RADIO LISTENERS' GUIDE.

1929-30 Edition of the Guide has been well received and repeat orders are coming in rapidly.

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 trouble the amateur wireless enthusiast.

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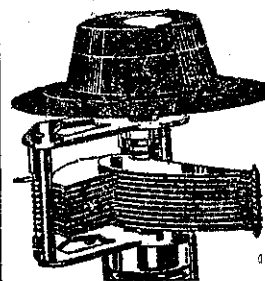
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"'Tis the deep music of the rolling world,
Kindling within the strings of the waved air—
Aeolian modulations."

—Shelley.

By
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Woods

"Pinafore's" Jubilee.

THE Gilbert and Sullivan opera, "H.M.S. Pinafore," was first produced in 1878, thus celebrating its jubilee last year. There is an interesting little story of how the popularity of their works preceded the librettist and composer on their visit to the United States. During the course of their tour, Sullivan visited a mining camp and immediately upon being introduced, one of the miners said, "How much do you weigh?" Rather astonished, Sullivan replied, "About one hundred and sixty pounds." "And do you mean to tell me that you licked John S. Blackmore down in Kansas City?" asked the miner. "No," replied Sullivan. "Ain't you John L. Sullivan, the slugger?" "No, I'm sorry," replied the composer. The miner pondered a moment, then his face brightened. "Are you the guy then that put Pinafore together? ... You are? ... Come right in and have a drink!"

The Studio Orchestra will commence the programme at 1YA on Thursday, September 5, with selections from "H.M.S. Pinafore."

Wagner's Tender Heart.

THERE are many stories told of Wagner's kindness of heart and his love for animals. It is related that only once in his life did he kill an animal for amusement. He had joined a party of young hunters and shot a rabbit. Its dying look met his eyes, and so moved him to pity that nothing could have induced him to ever go hunting again. The impression then made on him is echoed in the libretto of his early opera, "The Fairies," where the doe is hit by an arrow: "Oh! see! the animal weeps; a tear is in its eye. Oh! how its broken glances rest on me." The 4YA Broadcasting Trio, will play one of Wagner's compositions, "Song to the Evening Star," on Monday, September 2.

Elizabethan Contemporaries.

THERE is not a great deal known about our early English composer, Thomas Morley, but of his studies with William Byrd it is recorded "the said Morley became not only excellent in music, as well in the theoretical as practical part, but also well seen in the mathematics, in which Byrd was excellent." He became a Bachelor of Music of Oxford in 1588, and was probably organist of St. Paul's Cathedral soon afterwards. In 1592 he became a Gentleman of the Chapel Royal, and in Rolls of Assessments of the last years of the sixteenth century his name appears on one occasion side by side with that of William Shakespeare, both citizens having their goods valued at the same amount. Morley composed a number of songs for Shakespeare's plays, and is best remembered as a writer of vocal music, canzonets, madrigals, ballets and other pieces for several voices. A record

of Morley's "Round About a Wood," sung by the Salisbury Singers, will be used at 4YA on Friday, September 6.

Romantic Rubinstein.

"KAMENNOI-OSTROW" is Russian for "Kamennoi Island," which lies in the Neva River. It was there, at the villa of the Grand Duchess Helene that Rubinstein, a welcome guest at the many festivities for which the villa was famous, met many of the Russian nobility, and it was there that the inspiration for the composition of that name was received by the composer. The complete work consists of twenty-four episodes or musical portraits of the various guests and personages encountered by Rubinstein while enjoying the hospitality of the Grand Duchess. "Kamennoi-Ostrow" is No. 22 of the series, and bears the sub-title "Reve Anglique" or "Angelic Dream," but it is generally known as "Kamennoi-Ostrow."

We are told that it pictures the romantic attachment of Rubinstein for a lady of noble birth, probably Mlle. Anna de Friedebourg, to whom the work is dedicated and that the music was suggested to him during a walk by the river at sunset. The bell of a neighbouring convent was ringing, the waters were aglow with the setting sun. There Rubinstein walked with his love. The glory of the island is no more; its festive halls are silent, but this music lives and recreates for us a romantic and beautiful hour in the composer's life.

A record played by grand organ and orchestra, of the "Kamennoi-Ostrow" will be used at 4YA on Friday, September 6.

Fragrance and Charm.

BEETHOVEN'S exquisite "Minuet" is familiar to many through its many arrangements for various instruments. Beethoven, however, composed it for the piano. It is one of the masterpieces of music, perfect as to its form, captivating with its beautiful melody, its playful lights and shades, and the picture of the old court dance that it invariably brings to the imaginative listener. Stately dames and cavaliers moving solemnly to its graceful cadences, smiling and curtseying in formal accord. The minuet is an old French dance rhythm, beloved of the composers of the eighteenth century and made popular by them. It has found favour with later composers and comes to us to-day with a fragrance and old-time charm that is irresistible.

The Ley's Institute Orchestra have included Beethoven's Minuet in their programme which will be broadcast from 1YA on Wednesday, September 4.

A Fortune Won and Lost.

FRANZ LEHAR was born in Komárom, Hungary, in 1870. He studied in Vienna and Prague and held several

posts as conductor of military bands. He began with serious works, but soon changed his style and is now one of the most famous operetta-writers living. His success is founded on his melodious material, ideas and ingenious orchestration. He was the first composer to introduce special dancing parts for the actors after each song and duet. Also the influence of South-Slav folk-song is clearly felt. He has written about thirty operettas, the best known being "Die Lustige Witwe" ("The Merry Widow"), which brought him a large fortune which the World War destroyed. His later pieces, by curtailing the dialogue, approach more closely to the comic opera. A record of selections from "The Merry Widow" will be used at 4YA on Tuesday, September 3.

Light-hearted Music.

IN the rather exaggerated respect which we are wont to pay to serious music, thinking of tragedy as necessary to a higher plane than comedy, we are apt to do scant justice to the purveyors of light-hearted music whose whole aim is to add to the brightness of every day. It is a direction in which British music has long been to the fore, even from the days when the making of music was regarded as a recreation rather than an accomplishment. The whole world recognizes, for instance, that in the domain of whimsical comic opera, there is nothing like the long line of Savoy favourites. And, though our musical

comedies have often been imported from abroad, many English composers have shown that they can successfully compete with the foreigner in that bright and cheerful way.

Hermann Finck, by no means the first bearer of that name to achieve distinction in music, has long been held in warm affection as a purveyor of bright and tuneful pieces, which have no other object than to entertain us. And that he has at command a real gift of fresh and natural melody, which he knows moreover, very well how to set before us, has long been known to a large public. The 1YA Instrumental Trio will play selections from Finck's "Decameron Nights" on Tuesday, September 3.

Highland Dances.

EDWARD GERMAN'S "Nell Gwynn"

dances are among the best known of his works, and are a never-failing source of enjoyment. In the "Merry-makers' Dance" he is especially good. The measure of this will be recognised by many a Scot who has "footed it" to something akin from time immemorial. Strange that these old English dances, as they are called, should have died out in the southern portion of the realm to be still the vogue among the people of the northern. There is not a Merry-making in the North of Scotland, which has not this class of dance as the chief of its terpsichorean amusements. The 1YA Orchestra will play the "Nell Gwynn Dances" on Saturday, September 7.

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Next Week's Features

1YA Features

THE service in St. Matthew's Church will be broadcast on Sunday evening. Canon C. H. Grant Cowen will be the preacher. A studio concert will follow. The contributing local artists will be Miss Ivy Taylor, Mr. A. L. McPherson, and Mr. Reg. Richards. Special recordings will comprise orchestral, pianoforte, organ, and chorus numbers.

ON Tuesday evening Miss Phyllis Gribben, who has returned to Auckland for a short holiday, will again be heard "on the air," her contralto solos including "Ouvre tes yeux bleus" (Massenet) and "The Inquirer" (Schubert). Mr. Tom Moffitt (tenor) will be heard in "Then You'll Remember Me," and "Yes, Let Me Like a Soldier Fall." Two artists making their initial appearance before the "mike" will be the accomplished Auckland pianiste, Miss Theo Halpin, whose items include "Polonaise in B Flat" (Chopin), and Miss Rale Robinson, elocutioniste, well known in teaching circles in Auckland. Mr. Frank Sutherland's resonant bass-baritone voice will be heard to advantage in "Mephistopheles' Serenade" (Faust) and "Lullaby" (Mignon). The Studio Trio will be heard in instrumental selections, while Mr. R. W. Strong will continue his interesting presentation of Verdi's opera "La Traviata" (second instalment).

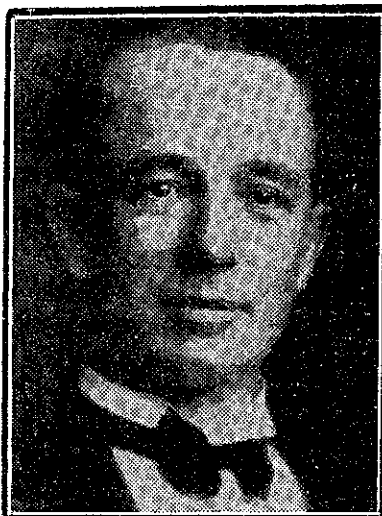
OUTSTANDING on Wednesday evening's programme will be the first appearance before the microphone of the Leys Institute Orchestra. This combination comprises about seventy instrumentalists, mostly strings, and includes a large number of juvenile performers who are taking a wonderful interest in their work, and will no doubt prove a source of talent from which our bigger orchestras will, later on, draw to advantage.

Assisting artists include: Miss Kay Christie (contralto), Mr. Ken Kenealy (tenor), Mr. Dan Flood (humorist), and Mr. Allan McSkimming (elocutionist).

THE main vocalists on Thursday evening's programme will be the ever-popular Olympians in a variety of quartets and solos, including "The Hunt is Up" (Gardiner), "Pierrot at

SATURDAY evening's programme will include the Basham-Briggs Duo in duets, and contralto and baritone solos; the Snappy Three in popular songs and the Bonzo Five, a new novelty instrumental combination who are making their first appearance at 1YA. The Studio Orchestra will provide light orchestral selections, and from approximately 9.30 to 11 p.m. dance music will be broadcast.

Hilda Chudley's contribution to the programme. Mr. Chas. Edwards will sing "King Duncan's Daughters," and the well-known tenor aria from Handel's oratorio, "Samson," "Total Eclipse." The orchestral items will be the overture to "Orpheus in the Underworld," parts one and two of Luigini's "Ballet Russe," Liszt's "Liebestraum," Rachmaninoff's "In the Silence of the Night," and a Fantasia of "William Tell."



Sergeant W. H. Hallahan, of H.M.S. Philomel, bass, a 1YA artist.
—S. P. Andrew, photo.



Miss Robina Chellburg, contralto, of Pukekohe, heard from 1YA.
—S. P. Andrew, photo.

TUESDAY evening's programme is one that will cater for many tastes. The items comprise solos from musical comedies, sung by Mr. and Mrs. Ray Kemp, light songs at the piano by Mr. E. A. Sargent, and jazz piano and vocal numbers by Messrs. Claude Hoare and Edwin Silver. The orchestral items will comprise such old favourites as the "Crown Diamonds" overture, Ketelby's suite, "In a Fairy Realm," Godowsky's "Alt Wien," and "Reconciliation," from Drigo's "Les Millions Darlequin."

THE Wellington City Silver Band, assisted by Mrs. Edris Spackman (soprano), Mr. S. E. Rodger (baritone), Mr. E. W. Robbins (tenor), Miss Evelyn Robinson (contralto), and Miss Maisie Carte-Lloyd, of Auckland (elocutioniste), will give another of their popular and entertaining studio concerts on Thursday evening. The band items will comprise such popular numbers as the "Poet and Peasant Overture," two numbers from Woodford-Finden's "Indian Love Lyrics" Suite, the selection, "Gems of the Old Days," Eilenberg's "March of the Mountain Gnomes," and several marches and waltzes.

MISS Maisie Carte-Lloyd is a well-known Auckland elocutionist, who is often heard on the air from 1YA, and she is taking the opportunity while on a visit to Wellington, of entertaining Wellington listeners with items from her extensive repertoire.

ON Saturday evening a high-class vaudeville programme will be presented, the vocalists being the Melodie Four and Mrs. Winifred Birch-Johnston, who will also contribute one of her inimitable whistling solos. The concerted items will be "In the Sadows," "'Cos I'd Nothing Else to Do," and Tosti's "While I Love You." Mr. Sam Duncan will sing Blumenthal's "Evening Song," and Mr. R. S. All-

2YA Features

THE service in Trinity Methodist Church, Newtown, will be broadcast on Sunday evening. The preacher will be the Rev. T. W. Vealie. The concert programme for the after-church broadcast will be provided by the Port Nicholson Silver Band, whose recital in the Grand Opera House will be relayed.

MONDAY evening's programme will be of outstanding merit. The vocalists will be Mrs. Edris Spackman, of Napier (soprano), Mr. John Prouse (baritone), Miss Hilda Chudley (contralto), and Mr. Chas. Edwards (tenor). Also to be presented is the remarkable radio play, "Danger," Mrs. Edris Spackman is not unknown to listeners, having performed from the station on a previous occasion very successfully. Her items on this occasion will be "Damon," by Max Strange, "Solvieg's Song," from Greig's "Peer Gynt Suite," and Schubert's "Rosebud on the Hillside."

Mr. John Prouse is making a welcome reappearance before the microphone on this programme. He has chosen for his items two gems from oratorio in "Honour and Arms" and "How Willing My Paternal Love," also two ballad numbers, "Gipsy John" and "Here's a Health." A negro spiritual, "Nobody Knows De Trouble I've Seen," and two classical songs, will be Miss

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wright "Fleurette" and "The Star." Mr. W. W. Marshall will be heard in "The Courier of Moscow," and Mr. Frank Bryant's solo will be "Duna."

Mr. Len Ashton, a popular entertainer at 2YA, will be heard in two humorous request numbers, "Please, Could You Oblige Me With a Stamp," and "Misery Farm." Mrs. Wildred Kenny's Mandolin Band will add novelty to the programme. Orchestral items will be in keeping with the programme, and at 10 p.m. the usual dance programme will be broadcast.

MR. W. Roy Hill, who was a victim of a serious motor-car accident some months ago, will be welcomed back to radio circles on Friday evening when the Aerial Singers will be supplying the vocal portion of the musical programme. Mr. Hill will sing two solos, settings by Quilter and Lidgley, of two Elizabethan poems. The other soloists will be Miss Jeanette Briggs, Miss Ngaire Coster, and Mr. J. M. Caldwell. As a quartette, the Aerial Singers will contribute "Isle of Beauty." Mr. J. F. Montague will give a humorous item, and there will be selections by the Studio Orchestra. This concert programme will occupy the second half of the evening's session, following on "Galapagos," and the talk by the Hon. T. M. Wilford on "The Skyways as Highways."

ON Friday evening the dramatic radio play, "Galapagos," will be presented by Mr. J. F. Montague and company. Mr. Montague is already well known to listeners of 1YA as a producer of plays of no mean order, and his production of "Galapagos" will be looked forward to with keen interest by listeners generally. This play when produced at 1YA some time ago was enthusiastically received, and no effort is being spared to make the 2YA production the equal of the 1YA effort. The vocal portion of the programme will also be of a high order, the vocalists being the Aerial Singers, who will provide interesting fare. Two dramatic numbers are Henschel's "Young Dietrich" and "Lorraine, Lorraine, Lorree," by the modern composer, Charles Gilbert Spross. Others whose works will be heard are Mallinson Quilter, Lidgley and Coleridge Taylor.

SATURDAY evening's talk from 2YA promises to be of great interest to listeners on account of the recent vanquishing of the world-famous Cunard liner Mauretania, which held the Blue Riband of the Atlantic for twenty-two years, by the Bremen. The talk is being presented by Mr. V. Hutchinson, who is a well-known figure in trans-Atlantic shipping circles in New Zealand, and is thus a competent authority to deal with the subject. Mr. Hutchinson is also giving two further talks which will be of widespread interest. "Travelling Home Across Canada" and "Travelling Home by the United States." To the intending traveller these should provide valuable information as to which route to travel by, the attractions of each being manifold.

3YA Features

THE service conducted by the Rev. W. T. Blight at Durham Street Methodist Church on Sunday evening will be broadcast by 3YA. The organist and musical director will be Mr. Ernest Firth, F.R.C.O. Prior to the rebroadcast of 2YA, which will take place at 8.15, there will be a brief studio concert. Items will be contributed by Miss Anita Graham and Mr. W. Bradshaw.

THE fortnightly "Book Review" by Mr. E. J. Bell, Public Librarian of Christchurch, will be given on Monday evening at 7.15. A talk to farmers will follow at 7.30.

The concert programme for the evening will be provided by the New Brighton Municipal Band (under Mr. J. Nuttall) and 3YA artists. This marks the first appearance of the New Brighton Band in broadcasting and much interest will attach. An excellent programme has been arranged, the items to be presented by the band including some novelties. The 3YA vocalists for the evening will be Mrs. Bessie Stewart, Miss Linda Mills, Mr. E. K. Rushworth, and Mr. George Wilson. Miss Lily Kinsella, at the piano, will entertain, and there will be selections by the Studio Trio.

ON Wednesday evening the programme will be provided by Mr. Will Hutchens, Mr. J. F. Montague, the Studio Orchestra, and the Salon Quartet (Miss Corrie Aslin, Miss Dulcie Mitchell, Mr. H. Blakeley, and Mr. J. Graham Young).

Thursday evening will be a night of opera, the vocalists being the Grand Opera Quartet. The programme will include many well known airs.

ON Friday evening 3YA will rebroadcast 2YA.

SATURDAY evening's concert will be provided by the Valencia Quartet (singing old favourites), Mr. George Titchener (humour), the Joyous Duo (popular songs at the piano), Miss Ruby Boot (elocutionist), and Mr. Noel Newson (improvisations on the piano).

4YA Notes

THE service in Knox Church will be broadcast on Sunday evening. The Rev. James Burns, M.A., will be the preacher. A relay of the concert to be given in His Majesty's Theatre by the Tramways Band will follow.

Prominent on the first half of Monday evening's programme will be the presentation by The Majors of "The Norman Baron," a cantata founded on a poem by Longfellow. In the supporting vocal items, Miss Freda Elmes will sing "Song of the Florian," Miss Doro-

thy Skinner "Ships of Arcady," Mr. J. Montague "Parted," and Mr. L. M. Cachemaille "Sweet Pretty Maiden." Solos and concerted numbers will be played by Mr. Frank Parsons (violin), Mr. P. J. Palmer ('cello), and Mrs. E. Drake (piano).

On Wednesday evening 4YA will relay the 3YA programme.

On Friday evening Mr. H. Greenwood, librarian at the Athenaeum, will give a talk on books.

EXCERPTS from the musical comedy "Sally" (by Kerne) will be sung by the 4YA Harmonists on Friday evening. The excerpts will comprise many interesting songs. Other items on the vocal programme will be the solos "Lovely Spring," "The Silver Ring," sung by Miss Mae Matheson, "Snowflakes" and "Go Down to Kew in Lilac Time," sung by Miss Mollie Andrews; "Invictus" and "On Wings of Song," by Mr. H. A. Johnston, and "For the Green" and "Lady Mine" to be sung by Mr. F. M. Tuohy. The instrumentalists for the evening will be the Studio Trio.

Saturday evening's programme will be a relay from 3YA.

Children's Sessions

1YA Sessions to Commence Earlier

AT 1YA.

TUESDAY, SEPTEMBER 3:

To-night we begin our Children's Session at 5 o'clock. So don't forget to tune in an hour earlier, kiddies, or you'll miss hearing Uncle George and his little helpers.

WEDNESDAY:

More cheer germs from Uncle Tom, and birthday greetings, too. Musical items from some of the Happy Band.

THURSDAY:

Great anxiety lest Peter Pan doesn't get here in time for 5 o'clock. But Cinderella is sure to chase him along, and we'll enjoy his stories and piano solos from Cousin Lola.

FRIDAY:

Ned and Aunt Jean at the top of their form as usual, with jolly songs and stories. Baby Rita coming to say more of her charming pieces.

SATURDAY:

Off to Radioland with Cinderella. Cousin Billy reciting and Cousin Ngaire singing. Radio Postman visiting the birthday folk.

SUNDAY:

Children's song service, conducted by Uncle Leo, assisted by the Beresford Street Sunday School.

AT 2YA.

MONDAY, SEPTEMBER 2:

Some happy little cousins in the music. Uncle Jeff will have a new puzzle. Birthday greetings and his two cheery songs.

TUESDAY:

Cousin Ailsa will sing some of her pretty songs that are specially written for little girls and boys. Uncle Jim will send birthday mes-

sages. Cousin Teddy and Aunt Gwen are going for a fairy trip right down to the bottom of the sea.

THURSDAY:

Cousin Zac to-night with his jolly music on the steel guitar. Little Betty and Pat and Cousin Roma will recite and sing. Birthday messages from Uncle George.

FRIDAY:

The children to-night are the pupils of Miss Marjorie King, so we may look forward to a cheery hour. Robinson will be here, too, with Big Brother Jack and the little birthday folk.

SATURDAY:

Mrs. W. G. McCartie's pupils will entertain the cousins of Radioland to-night. They have given many happy hours so all will be pleased to hear them once again. Uncle Toby and Aunt Gwen will talk to the little people who have birthdays.

SUNDAY:

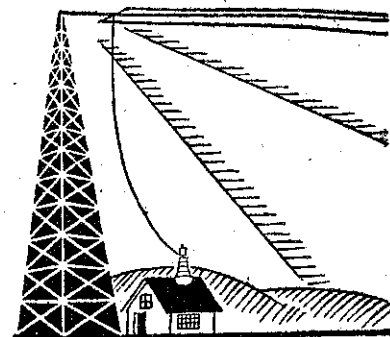
The Children's Song Service will be conducted by Uncle George, assisted by the Kent Terrace Presbyterian Sunday School Choir, under Mr. E. C. Jack.

3YA SESSIONS.

MONDAY, SEPTEMBER 2:

In comes "Scatterjoy" and "The Melody Maids" with a burst of spring. Daffodils a'blowing, violets and primroses nodding and the bells of music and song ringing over all.

(Continued on Page 27.)



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Sunday, September 1

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

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.30 : Close down.
 6.0 : Children's session, conducted by Uncle Leo.
 6.55 : Relay from St. Matthew's Church of evening service—Preacher: Canon G. H. Grant Cowan. Organist: Mr. J. H. Philpot.
 8.30 : (approx.) Studio programme:
 Orchestral—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck) (Columbia Record 02721).
 Soprano solo—Miss Ivy Taylor, "A Moorish Maid" (Parker).
 Pianoforte solo—Robert Lortat, "Prelude, Nos. 14 and 15" (Chopin) (Columbia Record 02739).
 Tenor solos—Mr. A. L. McPherson, (a) "Thy Rebuke"—"Behold and See"; (b) "Thou Didst Not Leave" (Handel).
 Choral—La Scala Chorus—"Fuoco di Gioia" ("Otello") (Verdi) (Columbia Record 02723).
 Baritone solo—Mr. Reg. Richards, "O God, Have Mercy" (Mendelssohn).
 Organ solo—Edouard Commette, "Fantasie in G Minor" (Bach) (Columbia Record 02746).
 Soprano solos—Miss I. Taylor, (a) "Orpheus With His Lute" (Sullivan); (b) "Yung—Yang" (Bantock).
 Tenor solo—Mr. A. L. McPherson, "Sleep On" (Mawson-Marks).
 Orchestral—Columbia Symphony Orchestra, "Scarf Dance" (Chaminade) (Columbia Record 01371).
 Baritone solos—Mr. Reg. Richards, (a) "Oh, Could I But Express in Song" (Malashkin); (b) "Eleanore" (Coleridge-Taylor).
 9.30 : Close down.

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

- 3.0 : Afternoon session—selected studio items.
 4.30 : Close down.
 6.0 : Children's service, conducted by Uncle George.
 7.0 : Relay of service from Trinity Methodist Church—Newtown: Preacher: Rev. T. W. Vealie. Organist: Miss Lillian Thawley. Choir-master: Mr. W. McClellan.
 8.15 : (approx.)—Relay from Grand Opera House of recital by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew.
 Close down.

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

- 3.0 : Afternoon session—Selected studio items.
 4.30 : Close down.
 5.30 : Children's song service.
 6.15 : Hymn chimes from studio.
 6.30 : Relay of service from Durham Street Methodist Church (Preacher, Rev. W. T. Blight; Organist and Musical Director, Mr. Ernest Firth, F.R.C.O.).
 7.45 : (approx.) Studio Programme:
 Mezzo-soprano solo—Miss Anita Graham, "Beyond the Sunset" (Tours).
 Tenor solos—Mr. W. Bradshaw, (a) "Where'er You Walk" (Schubert), (b) "The Garland" (traditional).
 Organ solo—Reginald Foort, "Schon Rosmarin" (Kreisler) (H.M.V. Record B2664).
 Mezzo-soprano solos—Miss Anita Graham, (a) "Song of Penitence" (Beethoven), (b) "Beloved Sleep" (Slater).
 Tenor solos—Mr. W. Bradshaw, "When Other Lips" ("Bohemian Girl") (Balfe).
 Organ solo—Reginald Foort, "A Brown Bird Singing" (Cadman) (H.M.V. Record B2664).
 8.15 : (approx.) Rebroadcast of 2YA, Wellington (relay from Grand Opera House, Wellington, of concert by the Port Nicholson Silver Band under the conductorship of Mr. J. J. Drew).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SUNDAY, SEPTEMBER 1.

- 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 First (Presbyterian) Church.
 8.5 : (approx.) Relay from His Majesty's Theatre of concert by the Municipal Tramways Band, under the conductorship of Mr. C. Morgan.
 9.15 : Close down.

Monday, September 2

1YA, AUCKLAND (900 KILOCYCLES).—MONDAY, SEPTEMBER 2. SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES).—MONDAY, SEPTEMBER 2.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone 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 Uncle Jeff.
 6.0 : Dinner session:
 Orchestral—Royal Albert Hall Orchestra, (a) "Song of Morning" (Elgar); (b) "Song of Night" (Elgar) (H.M.V. Record D1236).
 'Cello solo—Gaspar Cassado, "Menuett" (Haydn) (Columbia Record 03595).
 6.11 : Tacet.
 6.15 : Selection—La Scala Orchestra, "Song of the Nightingale" (Napravnik) (H.M.V. Record D1488).
 Instrumental trio—Kreisler, Kreisler, and Raucheisen, "Arlesienne—Intermezzo" (Bizet, arrgd. Kreisler) (H.M.V. Record DB1166).
 Male choir—Sheffield Orpheus Male Choir—"Hymn Before Action" (Kipling-Walford Davies) (Regal Record G30008).
 6.27 : Tacet.
 6.30 : Orchestral—Halle Orchestra, "Rosamunde Ballet Music" (Schubert): 1. Andantino; 2. Allegro Moderato; 3. Andante un poco assai (Columbia Record 04200).
 'Cello solo—Gaspar Cassado, "Chanson Villageoise, No. 2" (Popper) (Columbia Record 03595).
 6.41 : Tacet.
 6.45 : Instrumental trio—Kreisler, Kreisler, and Raucheisen, "Sanctissima" (Corelli, arrgd. Kreisler) (H.M.V. Record DB1166).
 Orchestra—Columbia Symphony Orchestra, "The Flatterer" (Chaminade) (Columbia Record 01371).
 Male choir—Sheffield Orpheus Male Choir, "The Long Day Closes" (Chorley) (Regal Record G30008).
 6.57 : Tacet.
 7.0 : News session, market reports, and sports results.
 7.40 : Lecturette—Mr. A. E. Wilson, of the Tourist Department, "Tourist and Holiday Resorts."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Orpheus in the Underworld" (Offenbach).
 8.9 : Soprano solo—Mrs. Edris Spackman, "Damon" (Strange).
 8.13 : Violin, 'cello, flute, and harp—Florentine Quartet, (a) "Spring Song" (Mendelssohn); (b) "Torna a Surriento" (De Curtis) (H.M.V. Record B2404 and Zonophone Record EE79).
 8.19 : Baritone solos—Mr. John Prouse, (a) "Honour and Arms" (Handel); (b) "How Willing My Paternal Love" (Handel).
 8.26 : Instrumental—Orchestra, "Ballet Russe" (Part 1) (Luigini).
 8.34 : Contralto solo—Miss Hilda Chudley, "Nobody Knows de Trouble I've Seen" (Negro Spiritual) (Burleigh).
 8.38 : Tenor solo—Mr. Chas. Edwards, "King Duncan's Daughters" (Allitsen).
 8.42 : Organ solo—Edwin H. Lemare, "Chant de Bonheur" (Lemare) (Zonophone Record EE93).
 8.45 : Special studio presentation of the Radio Play "Danger" (Richard Hughes), produced by Mr. Victor S. Lloyd:

Cast.

Mary	Miss Elsie Lloyd
Jack	Mr. Victor S. Lloyd
Mr. Bax	Mr. E. A. Clark

- 9.3 : Weather report.
 9.5 : Instrumental—Orchestra, "Ballet Russe (Part 2) (Luigini).
 (b) "Rosebud on the Hillside" (Schubert).
 9.13 : Soprano solos—Mrs. Edris Spackman, (a) "Solveig's Song" (Grieg);

Week-all Stations-to Sep. 8

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- 9.20: Baritone solos—Mr. John Prouse, (a) "Gipsy John" (Clay); (b) "Here's a Health" (Traditional).
 9.27: Instrumental—Orchestra, (a) "Liebestraum" (Liszt); (b) "In the Silence of the Night" (Rachmaninoff).
 9.35: Contralto solos—Miss Hilda Chudley, (a) "Homeward to You" (Quilter); (b) "Forever and a Day" (Lack).
 9.42: Selection—H.M. Coldstream Guards, "Martha" (Flotow) (H.M.V. Record C1453).
 9.50: Tenor solo—Mr. Chas. Edwards, "Total Eclipse" (Handel).
 9.54: Fantasia—Orchestra, "William Tell" (Rossini).
 10.2: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, SEPTEMBER 2.

- 3.0: Afternoon session—Selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0: Children's session conducted by "Scatterjoy".
 6.0: Dinner session—"Columbia" Hour:
 Selection—H.M. Grenadier Guards Band, "New Sullivan Selection" (arrgd. Godfrey) (Columbia Record 02731).
 Waltz—Court Symphony Orchestra, "Destiny Waltz" (Baynes) (Columbia Record 564).
 6.12: Tacet.
 6.15: Orchestral—Columbia Symphony Orchestra, "Idilio" (Lack) (Columbia Record 01076).
 Suite—New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Coleridge-Taylor): (1) La Caprice de Nanette; (2) Demand et Reponse (Columbia Record 02588).
 6.26: Tacet.
 6.30: Suite—New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Coleridge-Taylor): (1) Un Sonnet d'Amour; (2) La Tarantelle Fretillante (Columbia Record 02589).
 Wurflitzer organ solo—Terance Casey, "I'm Lonely" (Coates) (Columbia Record 01501).
 6.42: Tacet.
 6.45: Dance suite—H.M. Grenadier Guards Band, "Neil Gwynn Dances" (German): (1) Country Dance; (2) Pastoral Dance (Columbia Record 01329).
 Orchestral—Columbia Symphony Orchestra, "Spring Song" (Mendelssohn) (Columbia Record 01076).
 Waltz—Symphony Orchestra, "Morgen Blatter" (Strauss) (Columbia Record 9218).
 6.58: Tacet.
 7.0: News session.
 7.30: Talk—Mr. E. J. Lukey, B.V.Sc. (Live Stock Division, Department of Agriculture), "Diseases and Conditions Affecting Sheep and Lambs."
 8.0: Chimes.
 Studio programme by the New Brighton Municipal Band, under the conductorship of Mr. J. Nuttall, and assisting artists:
 8.1: March—Band, "Boulder City" (Ord Hume).
 8.7: Mezzo-soprano solos—Mrs. Bessie Stewart, (a) "A May Morning" (Denza), (b) "Billy and Me" (Phillips).
 8.13: Male quartet—National Cavaliers, "Beautiful" (Gillespie) (H.M.V. Record EA430).
 8.18: Instrumental—Studio Trio, (a) "Dialogue" (Bachmann), (b) "Mazurka Russe" (Glinka).
 8.26: Tenor solo—Mr. E. K. Rishworth, "Would God I Were" (Londonderry Air) (Frank Bibb).
 8.36: Recitals—Miss Marion Drysdale, (a) "An Australian Bush Christening" (Dennis), (b) "Two of a Kind" (Anon.).
 8.41: Baritone solo—Mr. George Wilson, "The Watchman" (Squire).
 8.45: Saxophone solo with violin, banjo, guitar, and piano—Rudy Wiedoeft, "Rubenola" (Wiedoeft) (H.M.V. Record EE119).
 Saxophone solo—Rudy Wiedoeft, "La Golondrina" (The Swallow) (H.M.V. Record EE129).
 8.51: Soprano solo—Miss Linda Mills, "The Beautiful Land of Nod" (Greene).
 8.55: Waltz—Band, "Carolina Moon" (Davis Burke).
 8.59: Weather report.
 9.1: Instrumental—Studio Trio, (a) "A La Bien Aimee" (Schutt), (b) "Gavotte" (Gauter), (c) "Serenade" (Herbert).
 9.11: Mezzo-soprano solo—Mrs. Bessie Stewart, "Angus Macdonald" (Roedel).
 9.15: Tenor solos—Mr. E. K. Rishworth, (a) "The Seabird" (Quilter), (b) "Moonlight" (Quilter).
 9.20: Novelty foxtrots—Band soloists, Messrs. Nuttall and Les Croft, (a) "Maggie! Yes Ma'am" (Clarke-Leslie), (b) "Shahani'ka Da" (Carlton).

- 9.30: Recital—Miss Marion Drysdale, "The Unsuccessful Plan" (Anon.).
 9.35: Baritone solos—Mr. George Wilson, (a) "The Diver" (Loder), (b) "Tops'1 Halyard" (Harry).
 9.41: Orchestral—Berlin Philharmonic Orchestra, "Carnival Romain" (Berlioz) (H.M.V. Record D1365).
 9.49: Soprano solos—Miss Linda Mills, (a) "Love's Echo" (Newton), (b) "The Kerry Dance" (Molloy).
 9.55: March—Band, "Gippsland" (Lithgow).
 10.1: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, SEPTEMBER 2.

- 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—National Symphony Orchestra, "Stradella" (Flotow).
 8.7: Presentation of "The Norman Baron" (founded on the poem by Longfellow) by the Majors Quartet.
 9.2: Weather report.
 9.4: Instrumental—4YA Broadcasting Trio, "Berceuse de Jocelyn" (Godard).
 9.9: Baritone solo—Mr. L. M. Cachemaille, "Sweet Pretty Maiden" (Gomes).
 9.13: Violin solo—Mr. Frank Parsons, "Rondo" (Mozart-Kreisler).
 9.20: Sea-shanties, John Goss and Cathedral Quartet, (a) "Walk Him Along, Johnny" (arrgd. Terry), (b) "Johnny, Come Down to Hilo" (arrgd. Terry) (H.M.V. Record B2940).
 9.23: Soprano solo—Miss Freda Elmes, "Song of Florian" (Godard).
 9.27: Cello solo—Mr. P. J. Palmer, "Serenade" (Prine).
 9.32: Contralto solo—Miss Dorothy Skinner, "Ships of Arcady" (Head).
 9.36: Pianoforte solo—Mrs. Ernest Drake, "Ballade" (Brahms).
 9.42: Sea-shanties, John Goss and Cathedral Quartet, (a) "O Shallow Brown" (arrgd. Terry), (b) "Miss Lucy Long" (arrgd. Terry) (H.M.V. Record B2940).
 9.46: Instrumental—4YA Broadcasting Trio, "Song to the Evening Star" (Wagner).
 9.51: Tenor solo—Mr. J. Montague, "Parted" (Tosti).
 9.56: Selection—New Queen's Hall Light Orchestra, "Pagliacci" (Leoncavallo) (Columbia Record 02714).
 10.0: Close down.

Tuesday, September 3

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, SEPTEMBER 3.

- 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.
 5.0: Children's session, conducted by Uncle George.
 6.0: Dinner session—"His Master's Voice" Hour:
 Orchestral—Royal Albert Hall Orchestra, "Carmen—Prelude, Act 1" (Bizet) (H.M.V. E461).
 Orchestral—National Symphony Orchestra, "Sylvia Ballet—Cortège de Bacchus" (Delibes) (H.M.V. EB24).
 Organ solo—Reginald Foort, "Schon Rosmarin" (Kreisler) (H.M.V. B2664).
 6.12: Tacet.
 6.15: Selection—Marek Weber's Orchestra, "La Tosca" (Puccini) (H.M.V. C1413).
 Orchestral—National Symphony Orchestra, "La Traviata—Prelude" (Verdi) (H.M.V. EB24).
 6.27: Tacet.

WHY?

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BURGESS RADIO BATTERIES

- 6.39: Selection—National Symphony Orchestra, "Bohemian Girl" (Balfe) (Zonophone A340).
Orchestral—Royal Albert Hall Orchestra, "Carmen—Prelude Act 2" (Bizet) (H.M.V. B461).
Organ solo—Reginald Foort, "A Brown Bird Singing" (Haydn Wood) (H.M.V. B2664).
- 6.42: Tacet.
- 6.45: Selection—National Symphony Orchestra, "Aida" (Verdi) (Zonophone A340).
Band—H.M. Coldstream Guards, "H.M.S. Pinafore" Selection (Sullivan) (H.M.V. C1283).
- 6.57: Tacet.
- 7.0: Book review.
- 7.15: News and market reports.
- 7.40: Talk—Madame Edith Baird, "Artistic Physical Development."
- 8.0: Chimes.
- 8.1: Relay from Majestic Theatre of overture by orchestra under the conductorship of Mr. J. Whiteford Waugh.
- 8.9: Contralto solos—Miss Phyllis Gribben, (a) "The Enquirer" (Schubert), (b) "Ouvre Tes Yeux Bleus" (Open Thy Blue Eyes) (Massenet).
- 8.16: Instrumental—Studio Trio, (a) "The Lark" (Glinka), (b) "Little Waltz" (Carreno).
- 8.24: Tenor solo—Mr. T. Moffitt, "Then You'll Remember Me" ("Bohemian Girl") (Balfe).
- 8.28: Recital—Miss Raie Robinson, "The Game of Life" (Wilcox).
- 8.33: Bass-baritone solos—Mr. Frank Sutherland, (a) "Coat Song" ("La Boheme"—Puccini), (b) "Lullaby" ("Mignon"—Thomas).
- 8.39: Pianoforte solos—Miss Theo Halpin, (a) "Finnish Folk Song" (Merikanto), (b) "Les Spectres" (Schytte).
- 8.45: Contralto solo—Miss P. Gribben, "The Enchantress" (Hatton).
- 8.49: Instrumental—Studio Trio, Selections from "Decameron Nights" (Finck).
- 8.59: Weather report.
- 9.1: Tenor solos—Mr. T. Moffitt, (a) "There is a Flower that Bloometh," (b) "Yes, Let Me Like a Soldier Fall" ("Maritana"—Wallace).
- 9.9: Recital—Miss Robinson, (a) "The Coward" (Hennequin), (b) "Little Things."
- 9.15: Pianoforte solo—Miss T. Halpin, "Polonaise in B Flat" (Chopin).
- 9.20: Baritone solo—Mr. Frank Sutherland, "Mephistopheles' Serenade" ("Faust"—Gounod).
- 9.24: Presentation of the grand opera "La Traviata" (Verdi), Second Instalment (Columbia Records 9632-37), with introductory remarks by Mr. R. W. Strong.
- 10.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, SEPTEMBER 3.

- 3.0: Chimes of the G.P.O. clock.
- 3.1: Selected studio items.
- 4.30 and 4.50: Sports results to hand.
- 4.55: Close down.
- 5.0: Children's session, conducted by Uncle Jim.
- 6.0: Dinner Music Session—"Columbia" Hour:
Instrumental—Ketelbey's Concert Orchestra, "In a Persian Market" (Ketelbey) (Columbia Record 02689).
Violin—Efrem Zimbalist, "Liebesleid—Old Vienna Waltz" (Kreisler) (Columbia Record 04221).
- 6.12: Tacet.
- 6.15: Morceau—Plaza Theatre Orchestra, "The Busy Bee" (Bendix) (Columbia Record 01488).
Dance—Plaza Theatre Orchestra, "My Lady Dainty" (Hesse) (Columbia Record 01488).
Instrumental—J. H. Squire Celeste Octet, "La Serenata" (Braga) (Columbia Record 116).
Kinema organ—Stanley MacDonald, "Was it a Dream?" (Coslow) (Regal Record G20401).
- 6.27: Tacet.
- 6.30: Instrumental—Columbia Symphony Orchestra, "March of the Toys" (Herbert) (Columbia Record 02651).
Waltz—New Concert Orchestra, "Hydropaten" (Gungl) (Columbia Record 02672).
Violin—Efrem Zimbalist, "Zapateado" (Sarasate) (Columbia Record 04221).
- 6.42: Tacet.
- 6.45: Waltz—New Concert Orchestra, "Jolly Fellows" (Bruder) (Columbia Record 02672).
Octette—J. H. Squire Celeste Octet, "Serenade" (Titi) (Columbia Record 9116).
Waltz—Eddie Thomas' Collegians, "Beautiful Ohio" (Earl) (Columbia Record 02651).
- 6.56: Tacet.
- 7.0: News session, market reports and sports results.
- 7.40: Lecture—Representative of the Agricultural Department, "For the Man on the Land."
- 8.0: Chimes of the G.P.O. clock.
- 8.1: Overture—Orchestra, "Crown of Diamonds" (Auber).
- 8.9: Contralto solo—Mrs. Ray Kemp, "The Song of the Mill" ("The Girl on the Film"—Kollo).
- 8.15: Jazz piano and vocal numbers—Messrs. Claude Hoare and Edward Silver in the latest jazz piano solos and popular songs.

- 8.20: Light song at piano—Mr. E. A. Sargeant, "The Fine Old English Gentleman" (Clare).
- 8.26: Suite—Orchestra, "In a Fairy Realm" (Ketelbey).
- 8.34: Baritone solo—Mr. Ray Kemp, "In the Shade of the Palm" ("Floradora" (Stuart)).
- 8.38: Dialogue—Angela Baddeley and L. Du Garde Peach, "Motoring Without Tears" (Peach) (H.M.V. Record B2813).
- 8.44: Contralto solos—Mrs. Ray Kemp, (a) "Salaam" (Lang), (b) "Before the Dawn" (Lang).
- 8.50: Instrumental—Orchestra, (a) "Reconciliation" ("Les Million d'Arlequin"—Drigo), (b) "Alt Wien" (Godowsky).
- 8.58: Weather report.
- 9.0: Jazz piano and vocal numbers—Messrs. Claude Hoare and Edward Silver in the latest jazz piano numbers and popular songs.
- 9.7: Light song at piano—Mr. E. A. Sargeant, "Under the Circumstances" (Mel B. Spurr).
- 9.12: Instrumental—Orchestra, request number.
- 9.17: Baritone solo—Mr. Ray Kemp, "The Mountains of Mourne" (Collisson).
- 9.21: Vocal duet—Mr. and Mrs. Ray Kemp, "A Night in Venice" (Lancantoni).
- 9.25: Instrumental—Orchestra, "Capricante" (Wachs).
- 9.30: "His Master's Voice" Dance Programme:
Bass-baritone solo—Peter Dawson, "Captain Harry Morgan" (Bantock) (H.M.V. Record B2884).
Foxtrot with vocal refrain—Arcadians Dance Orchestra, "Fascinating Eyes" (Snyder) (Zonophone Record 5249).
Foxtrot—Jack Pettis and His Pets, "A Bag of Blues" (Goering) (Zonophone EE188).
Waltz—Arcadians Dance Orchestra, "Ah! Sweet Mystery of Life" (Herbert) (Zonophone 5249).
- 9.42: Baritone solo—Noel Coward, "Try to Learn to Love" (Coward) (H.M.V. B5487).
Foxtrot—Jack Pettis and His Pets, "Freshman Hop" (Goering) (Zonophone EE138).
- 9.51: Humour—Leonard Henry, "The Tale of the Talkies" (Henry) (H.M.V. B2916).
Foxtrot—Arcadians Dance Orchestra, "Our Canary" (Butler) (Zonophone 5251).
Foxtrot—Ambrose and his Orchestra, "Dance, Little Lady" (Coward) (H.M.V. B5487).
Foxtrot—Arcadians Dance Orchestra, "Dreaming of To-morrow" (Pole) (Zonophone 5251).
- 10.3: Baritone solo—Noel Coward, "Dance, Little Lady" (Coward) (H.M.V. B2720).
Foxtrot with vocal refrain—George Olsen's Music, "Old Man Sunshine" (Dixon) (H.M.V. EA422).
Foxtrot with vocal refrain—Park Central Orchestra, "Then Came the Dawn" (Dubbin) (Zonophone EE144).
Waltz—The Troubadours, "Diane" (Rapee) (H.M.V. EA269).
- 10.15: Wurlitzer organ solos—Leslie James, (a) "Just Imagine" (De Sylva), (b) "Lily of Laguna" (Stuart) (H.M.V. B2902).
Foxtrot—Arcadians Dance Orchestra, "The Man I Love" (Gershwin) (Zonophone 5167).
Foxtrot with vocal refrain—"Sentimental Baby" (Palmer) (Zonophone EE144).
Foxtrot—Arcadians Dance Orchestra, "A Room with a View" (Coward) (Zonophone 5167).
- 10.30: Humour—Leonard Henry, "General Post" (Henry) (H.M.V. B291).
Community Lancers—Bert Firman's Dance Orchestra (Zonophone Records 5117-8).
- 10.42: Baritone solo—Maurice Elwin, "Don't Keep Me in the Dark, Bright-eyes" (Wending) (Zonophone 5243).
Foxtrot—Nat Shilkret's Orchestra, "Nagasaki" (Dixon) (H.M.V. EA412).
Foxtrot with vocal chorus—George Olsen's Music, "Doin' the Raccoon" (Klages) (H.M.V. EA422).
- 10.51: Baritone solo—Maurice Elwin, "The First Kiss" (Dublin) (Zonophone 5243).
Foxtrot with vocal refrain—Statler Pennsylvanians, "It Goes Like This" (Caesar) (H.M.V. EA446).
Waltz—Nat Shilkret's Orchestra, "Till We Meet Again" (Egan) (H.M.V. EA412).
- 11.0: Close down.

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

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, SEPTEMBER 3.

- 3.0: Town Hall chimes.
- 3.1: Selected gramophone items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 6.0: Town Hall chimes.
- 6.1: Children's session conducted by Big Brother Bill.
- 7.0: News session.
- 7.30: Lecture—Mr. Lloyd Ross, M.A., LL.B., "The Problem of the Machine Age—Social Unrest" (under the auspices of the Workers' Educational Association).

- 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, "Black Dike" (Greenwood).
- 8.7 : Baritone solo—Mr. Neil Black, "Bombardier" (Rowlings).
- 8.11 : Novelty—Xylo Rimba Orchestra, "My Sweetheart" Waltz (Nelson) (Regal Record G20328).
- 8.15 : Part-song—Band, "Comrades in Arms" (Adam).
- 8.27 : Soprano solos—Miss Louise de Reya, (a) "The Bird and the Babe" (Lieurance), (b) "Down in the Forest" (Landon Ronald).
- 8.31 : Male chorus—Sheffield Orpheus Male Choir, "Hymn Before Action" (Walford Davies) (Regal Record G30008).
- 8.35 : Cornet solo—Band, "Heart of a Rose" (Nicholls).
- 8.42 : Recital—Miss Julie Jacobs, "Gorsip" (Rynd).
- 8.52 : Selection—De Groot's Orchestra, "The Merry Widow" (Lehar) (H.M.V. Record C1616).
- 9.0 : Weather report.
- 9.2 : Selection—Band, "The Martyrs" (Donizetti).
- 9.14 : Bass solos—Mr. Neil Black, (a) "Will o' the Wisp" (Cherry), (b) "Two Eyes of Grey" (McGeoch).
- 9.21 : Novelty—Xylo Rimba Orchestra, "Along Miami Shore" (Warren) (Regal Record G20328).
- 9.24 : Trombone fantasia—Band, "Firefly" (Moss).
- 9.31 : Soprano solo—Miss Louise de Reya, "Serenata" (Toselli).
- 9.35 : Recitals—Miss Julie Jacobs, (a) "Specially Jim" (Morgan), (b) "Little Orphan Annie" (Riley).
- 9.42 : Air and variations—Band, "Sandon" (Rimmer).
- 9.52 : Male chorus—Sheffield Orpheus Male Voice Choir, "The Long Day Closes" (Sullivan) (Regal Record G30008).
- 9.55 : March—Band, "The Charmer" (McAllister).
- 10.0 : Close down.

Wednesday, September 4

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, SEPTEMBER 4.

- 3.0 : Afternoon session—Selected studio items.
- 3.30 : Talk—Mrs. D. Dorman, "Women's Institutes."
- 4.0 : Literary selection by the Announcer.
- 4.8 : Studio items.
- 4.25 : Sports results to hand.
- 4.30 : Close down.
- 5.0 : Children's session, conducted by Uncle Tom.
- 6.0 : Dinner session—"Columbia Hour":
Band—Royal Italian Band, "Marcia Reale" (Sabetti) (Columbia 01182).
Instrumental—Court Symphony Orchestra, "In Venice" (Sellers) (Columbia 896).
Cinema Organ—Stanley MacDonald, "Was it a Dream" (Coslow) (Regal G20401).
Band—Royal Italian Band, "Garibaldi's Hymn" (Olivieri) (Columbia 01182).
- 6.12 : Tacet.
- 6.15 : Instrumental—Ketelbey's Orchestra, "Sanctuary of the Heart" (Ketelbey) (Columbia 02690) (123/K19).
Cello—W. H. Squire, "Melody in F" (Rubinstein-Popper) (Columbia 04178).
- 8.26 : Tacet.
- 8.30 : Instrumental—J. H. Squire's Celeste Octet, "Mignon." (1) Introduction and Romance; (2) Polonaise (Thomas) (Columbia 02749).
Cello—W. H. Squire, "Silver Threads Among the Gold" (Danks, arrgd. Squire) (Columbia 04178).
- 6.42 : Tacet.
- 6.45 : Patrol—H.M. Grenadier Guards Band, "Turkish Patrol" (Michaelis) (Columbia 4111).
Cinema organ—Stanley MacDonald, "Nicolette" (Batten) (Regal G20401).
Waltz—Eddie Thomas' Collegians, "Moments with You" (Yellen) (Columbia 01135).
Idyll—H.M. Grenadier Guards Band, "Smithy in the Woods" (Michaelis) (Columbia 4111).
- 6.58 : Tacet.
- 7.0 : News session—Market reports.
- 7.40 : Talk—Madame Mabel Milne, "Health Foods and Diet."
- 8.0 : Chimes.
Presentation of orchestral concert by Leys Institute Orchestra, under the conductorship of Mr. Harold Baxter, and assisting artists.
- 8.1 : March—Orchestra, "Old Faithful" (Holzman).
- 8.5 : Contralto solo—Miss Kay Christy, "Morning" (Speaks).
- 8.9 : Instrumental—Orchestra, (a) "Air" (Mattheson); (b) "Invitation to the Dance" (Weber); (c) "Minuet" (Beethoven).
- 8.30 : Recitals with musical accompaniment—Mr. Allan McSkimming: (a) "Goodbye, God Bless You" (Field); (b) Selected.
- 8.37 : Instrumental—Orchestra, Selections from "The Gondoliers" (Sullivan).
- 8.45 : Humour—Mr. Dan Flood, Mirthful Moments.
- 8.51 : Tenor solos—Mr. Ken Kenealy, (a) "The Secret" (Scott); (b) "Pale Moon" (Logan).

- 8.58 : Instrumental—Orchestra, (a) "Keltic Lament" (Foulds); (b) "Humoreske" (Dvorak).
- 9.7 : Weather report.
- 9.9 : Valse de concert—Orchestra, "Weaner Madin" (Ziehrer).
- 9.19 : Male choir—Don Cossacks, "Song of the Volga Boatmen" (Trdtl.), (Columbia Record 9085).
- 9.23 : Instrumental—Orchestra, (a) Selection of Scottish Melodies (Arrgd. Myddleton); (b) "Stars and Stripes" march.
- 9.33 : Contralto solos—Miss Kay Christy, (a) "Heine D Heine" (Princess Te Rangī Pāi); (b) "Irish Folk Song" (Foote).
- 9.40 : Humour—Mr. Dan Flood, More Merry Moments.
- 9.45 : Cello solo—Pablo Casals, "Traumerel" (Schumann) (H.M.V. Record DA833).
- 9.49 : Tenor solo—Mr. K. Kenealy, "Bird Songs at Eventide" (Coates).
- 9.53 : Selection—Band of H.M. Grenadier Guards, "Regimental March Medley" (Columbia Record 02851).
- 10.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, SEPT. 4. SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, SEPT. 4.

- 3.0 : Afternoon session—Selected studio items.
- 4.25 : Sports results to hand.
- 4.30 : Close down.
- 5.0 : Children's session conducted by Mother Hubbard and Uncle Frank.
- 6.0 : Dinner session—"His Master's Voice" Hour:
Orchestral—New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai) (H.M.V. Record C1260).
Waltz—Marek Weber's Orchestra, "Moonlight on the Alster" (Tetras) (H.M.V. Record C1407).
- 6.12 : Tacet.
- 6.15 : Intermezzo—New Light Symphony Orchestra, "Hearts and Flowers" (Tobani) (Zonophone Record EF20).
Waltz—Marek Weber's Orchestra, "Wine, Women, and Song" (Weber) (H.M.V. Record C1407).
Wurlitzer organ solo—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey) (H.M.V. Record C1459).
- 6.26 : Tacet.
- 6.30 : Orchestral—New Light Symphony Orchestra, "The Glow-Worm Idyll" (Lincke) (Zonophone Record EF20).
Orchestral—Victor Salon Orchestra, "Indian Love Call" ("Rose Marie" (Friml) (H.M.V. Record EA186).
Orchestral—Victor Salon Orchestra, "The World is Waiting for the Sunrise" (Lockhart) (H.M.V. Record EA186).
Novelty—Balalaika Orchestra, "Song of the Volga Boatmen" (Russian Folksong) (H.M.V. Record EA48).
- 6.43 : Tacet.
- 6.45 : Orchestral—De Groot's Orchestra, "The Merry Widow" (Lehar) (H.M.V. Record B2945).
Wurlitzer organ solos—Reginald Foort, (a) "Leave Me Alone" (Dvorak), (b) "Songs My Mother Taught Me" (Dvorak) (H.M.V. Record C1459).
- 6.57 : Tacet.

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- 7.0 : News session.
 7.30: Addington stock market reports.
 8.0 : Chimes.
 8.1 : Selection—Studio Orchestra under the conductorship of Mr. Harold Beck, "The Girl of the Golden West" (Puccini).
 8.10: Madrigal, followed by soprano solo—Salon Quartet and Miss Corrie Aslin, (a) "From Oberon in Fairyland" (Stevens), (b) "Waltz Song" ("Tom Jones") (German).
 8.16: 'Cello solo—Pablo Casals, "Melody in F" (Rubinstein) (H.M.V. Record DA833).
 8.19: Lecture-recital—Mr. Will Hutchens, "Old English-Folk Songs" (arrgd. Hutchens).
 8.59: Weather report.
 9.1 : Instrumental—Studio Orchestra, (a) "Miniature March" (Tschai-kowsky), (b) "Meditation" (Glazounof), (c) "Grasshoppers Dance" (Bucalossi).
 9.11: Baritone solo, followed by soprano and contralto duet—Salonelle Duo, "Sainted Mother" ("Maritana"—Wallace).
 9.18: Recital—Mr. J. F. Montague, One-act Play, "The Devils Rock" (Betty Kerr).
 9.33: Contralto solo—Miss Dulcie Mitchell, "Ah, Se Tu Dormi" ("Romeo and Juliet") (Vaccini).
 Tenor and baritone duet—Salvator Duo, "Flow Gently, Deva" (Barnby).
 9.39: 'Cello solo—Lauri Kennedy, "Hungarian Rhapsody" (Popper) (H.M.V. Record C1595).
 9.42: Orchestral—Studio Orchestra, "Ballet Music—Faust" (Gounod).
 9.52: Baritone solo—Mr. J. Graham Young, "Toreador's Song" ("Carmen"—Bizet).
 9.56: Humour—Mr. J. F. Montague will entertain with a humorous item (MS.).
 10.2 : Violin, flute, and harp—Neapolitan Trio, "Simple Aveu" (Thome) (H.M.V. Record B2404).
 10.5 : Tenor solo, followed by vocal quartet—Mr. H. Blakeley and Salon Quartet, (a) "Jean" (Meade), (b) "How Sweet the Calm" (Blackburn).
 10.11: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, SEPTEMBER 4.

- 3.0 : Town Hall chimes.
 3.1: Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0 : Town Hall chimes.
 6.1: Children's session, conducted by Aunt Ainta.
 7.0 : News session.
 8.0 : Relay of 3YA Christchurch (Studio concert contributed by the Salon Quartet, Mr. J. F. Montague, the Studio Orchestra and Mr. Will Hutchens (Lecture-Recital on Old English Folk Songs).
 10.0 : "Brunswick" Dance Programme:
 Baritone solos—Chester Gaylord, (a) "Blue Hawaii" (Schuster); (b) "The One in the World" (Little) (Brunswick Record 4360).
 Foxtrot with vocal chorus—Bob Haring's Orchestra, "Louise" (Robin) (Brunswick Record 4359).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "Peace of Mind" (Dyrenforth) (Brunswick Record 4356).
 Foxtrot with vocal chorus—Bob Haring's Orchestra, "Huggable, Kissable You" (Bibo) (Brunswick Record 4359).
 10.15: Violin solo—Frederic Fradkin, "A Kiss in the Dark" (De Sylva) (Brunswick Record 4318).
 Foxtrot with vocal chorus—Al Goodman's Orchestra, "Yours Sincerely" (Rodgers) (Brunswick Record 4364).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "The One in the World" (Little) (Brunswick Record 4356).
 Waltz with vocal chorus—Colonial Club Orchestra, "My Heart is Bluer Than Your Eyes" (Bryan) (Brunswick Record 4364).
 10.27: Male trio—Earl Burnett's Biltmore Trio, "Love Me or Leave Me" (Kahn) (Brunswick Record 4336).
 Foxtrot with vocal chorus—Bob Haring's Orchestra, "Fioretta" (Romilli) (Brunswick Record 4288).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "In My Garden of Memory" (Buckley) (Brunswick Record 4352).
 Novelty foxtrot—Anglo-Persians, "Dance of the Paper Dolls" (Tucker) (Brunswick Record 4299).
 10.39: Male trio—Earl Burnett's Biltmore Trio, "A Garden in the Rain" (Gibbons) (Brunswick Record 4336).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "Moonlight and Roses" (Lemare) (Brunswick Record 4352).
 Novelty foxtrot—Anglo-Persians "The Toymaker's Dream" (Golden) (Brunswick Record 4299).
 Waltz—Bob Haring's Orchestra, "Dream Boat" (Henry) (Brunswick Record 4288).
 10.51: Violin solo—Frederic Fradkin, "Nola" (Arndt.) (Brunswick Record 4318).
 Foxtrot with vocal chorus—Pleasure Bound Orchestra, "Just Suppose" (Silvers) (Brunswick Record 4357).
 Waltz—Regent Club Orchestra, "Just Another Kiss" (Davis) (Brunswick Record 4357).
 (Robinson) (Brunswick Record 4371).
 11.0 : Close down.

Thursday, September 5

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, SEPTEMBER 5

- 3.0 : Presentation of programme arranged 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.
 5.0 : Children's session, conducted by Peter Pan.
 6.0 : Dinner session—"Parlophone Hour":
 Waltzes—Dajos Bela Orchestra, (a) "Sulamith" (Hansen Milde); (b) "Minuet" (Nicholls) (Parlophone E1057).
 Selection—Dajos Bela Orchestra, "Eldgaffeln" (Langden) (Parlophone A4009).
 6.12: Tacet.
 6.15: Instrumental—Frank Westfield's Orchestra, "Classica" (arrgd. Tilsey) (Parlophone A2195).
 Organ solo—Sigmund Krumgold, "Indian Love Call" (Friml) (Parlophone A2339).
 Waltz—Dajos Bela Orchestra, "You, Only You" (Arnold) (Parlophone E10592).
 6.27: Tacet.
 6.30: Selection—Raie Da Costa Ensemble, "Funny Face" (Gerishwin) (Parlophone A4074).
 Waltz—Dajos Bela Orchestra, "The Sphinx" (Popy) (Parlophone E10592).
 6.42: Tacet.
 6.45: Orchestral—Orchestra Mascotte, (a) "The Flowers' Dream" (Translatour); (b) "Whispering of the Flowers" (Von Blon) Parlophone A2559).
 Organ—Sigmund Krumgold, "Gypsy Love Song" (Herbert) (Parlophone A2339).
 Instrumental—Dajos Bela Orchestra, "Electric Girl" (Helmsburgh-Halmes) (Parlophone A4009).
 6.57: Tacet.
 7.0 : News and market reports.
 7.40: Talk—Mr. N. M. Richmond, "The Modern Age—As the Liberal Sees it" (Under the auspices of the W.E.A.)
 8.0 : Chimes.
 8.1 : Overture—Studio Orchestra, "H.M.S. Pinafore" selection (Sullivan).
 8.11: Vocal quartet—Olympians, "The Hunt Is Up" (Gardiner).
 8.15: Baritone solo—Mr. H. Barry Coney, "The Emigrant" (Smith).
 8.19: Xylophone and marimba—Rudy Starita, "Hit the Deck" medley (Yousmans) (Regal Record G20305).
 8.23: Humorous sketch—Auckland Comedy Players, "They Write a Play."
 8.41: Instrumental—Studio Orchestra, "A Doll's House": 1. The Green Baise Lawn; 2. The Blue Boudoir; 3. The Miniature Piano; 4. The Sleeping Doll; 5. The Clockwork Two-seater" (Myleman).
 8.49: Soprano solo—Miss Dorothy Youd, "Two Songs" (Gwynn Morris).
 8.53: Tenor solo—Mr. Lambert Harvey, (a) "Alone in Love's Garden" (Hewitt); (b) "When Shadows Gather" (Marshall).
 9.3 : Instrumental—Studio Orchestra, "Southern Roses" (Strauss).
 9.0 : Weather report.
 9.11: Contralto solos—Miss Martha Williamson, (a) "Salaam" (Lang); (b) "As You Pass By" (Russell).
 9.18: Baritone solo—Mr. H. Barry Coney, "If I Were" (Richards).
 9.22: Xylophone solo—Rudy Starita, "Dancing Tambourine" (Polla) (Regal Record G20305).
 9.26: Humorous sketch—Auckland Comedy Players, "Wednesday or Friday."
 9.33: Soprano solo—Miss D. Youd, "Pierrot at the Dance" (Drummond).
 9.37: Vocal duet—Mr. H. Barry Coney and Mr. L. Harvey, "I Wish to Tune my Quivering Lyre" (Watson).
 9.41: Instrumental—Studio Orchestra, "Day in Naples" (Byng).
 9.49: Foxtrot with vocal chorus—Hal Kemp's Orchestra, "You Wouldn't Fool Me, Would You?" (De Sylva) (Brunswick Record 4212).
 Foxtrot with vocal chorus—Harold Stern's Orchestra, "From Sunrise to Sunset" (Miller) (Brunswick Record 4251).
 Foxtrot with vocal chorus—Hal Kemp's Orchestra, "My Lucky Star" (De Sylva) (Brunswick Record 4212).
 Foxtrot with vocal chorus—Arnold Johnson's Orchestra, "Tear Drops" (Davis) (Brunswick Record 4251).
 10.1 : Comedienne with orchestra—Zelma O'Neal, "Button Up Your Overcoat" (De Sylva) (Brunswick Record 4207).
 Foxtrot with vocal chorus—Eight Radio Stars, "My Annapolis" (Weinberg) (Brunswick Record 4272).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "Hittin' the Ceiling" (Gottler) (Brunswick Record 4349).
 Waltz with vocal chorus—Eight Radio Stars, "I Found Happiness" (Rapee) (Brunswick Record 4272).
 Waltz with vocal chorus—Ray Miller's Orchestra, "My Angeline" (Wayne) (Brunswick Record 4233).
 10.16: Old-time orchestra, Al Hopkins Buckle Busters, "Polka Medley" (Lind) (Brunswick Record 4363).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "Cradle of Love" (Wayne) (Brunswick Record 4233).
 Foxtrot with vocal chorus—Hotel Ten Eyck Whispering Orchestra, "Then We Canoe-dle-Oodle" (Woods) (Brunswick Record 4372).
 Foxtrot with vocal chorus—Al Goodman's Orchestra, "I'm Still Caring" (Vallee) (Brunswick Record 4362).
 10.31: Vocal solo with novelty accompaniment, Frank Luther, "Peg-Leg Jack"

- Foxtrot with vocal chorus—Hotel Ten Eyck Whispering Orchestra, "Jericho" (Robin) (Brunswick Record 4372).
 Foxtrot with vocal chorus—Al Goodman's Orchestra, "I'm Just a Vagabond Lover" (Vallee) (Brunswick Record 4362).
 Waltz with vocal chorus—Regent Club Orchestra, "Sleepy Valley" (Sterling) (Brunswick Record 4370).
 10.43: Old-time orchestra, Al Hopkins Buckle Busters, "Marosovia Waltz" (Belcher) (Brunswick Record 321).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "Sing a Little Love Song" (Gottler) (Brunswick Record 4349).
 Foxtrot with vocal chorus—Roy Ingrahams Orchestra, "That's Living" (Ryan) (Brunswick Record 4366).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "There's a Four-Leaf Clover in My Pocket" (Colwell) (Brunswick Record 4247).
 10.55: Vocal solo with novelty accompaniment—Frank Luther, "Barnacle Bill, the Sailor" (Robison) (Brunswick Record 4371).
 Foxtrot with vocal chorus—Six Jumping Jacks, "Oh! Baby, What a Night!" (Brown) (Brunswick Record 4351).
 Waltz with vocal chorus—Regent Club Orchestra, "My Dear" (Kahn) (Brunswick Record 4370).
 11.0: Close down.

2YA WELLINGTON (720 KILOCYCLES).—THURSDAY, SEPTEMBER 5.

- 3.0: Chimes of the G.P.O. clock.
 3.1: Special programme of selected gramophone records and Mastertouch Player Rolls, arranged by Messrs. Hamilton Nimmo and Sons, Ltd. All player rolls will be played on the Gulbrandsen Registering Piano.
 4.30 and 4.50: Sports results to hand.
 4.55: Close down.
 5.0: Children's session, conducted by Uncle George.
 6.0: Dinner session—"His Master's Voice" hour:
 Instrumental—Reg. King's Orchestra, (a) "Garden in the Rain" (Gibbons); (b) "The Song I Love" (De Sylva) (H.M.V. B2903).
 Waltz—International Concert Orchestra, "Gold and Silver" (Lehar) (Zonophone EF22).
 Instrumental—Victor Olof Sextet, "Cherry Ripe" (Scott) (H.M.V. B2697).
 6.12: Tacet.
 6.15: Waltz—International Concert Orchestra, "The Spanish Dancer" (Di Chiara) (Zonophone EF15).
 Orchestral—Victor Concert Orchestra, "Romance" (Tschaiakowsky) (Zonophone EF7).
 Violin—Isolde Menges, "Salut D'Amour" (Elgar) (H.M.V. D1813).
 6.26: Tacet.
 6.30: Instrumental—Piccadilly Orchestra, (a) "Friend o' Mine" (Sanderson); (b) "None But the Weary Heart" (Tschaiakowsky) (H.M.V. B2857).
 Orchestra and grand organ—International Concert Orchestra, "My Treasure" (Becucci) (Zonophone EF15).
 Instrumental—Victor Olof Sextet, "Minuet" (Boccherini) (H.M.V. B2697).
 6.42: Tacet.
 6.45: Instrumental—Jack Hytton's Orchestra, "Melodious Memories" (Finck) (H.M.V. C1575).
 Waltz—International Novelty Orchestra, "Emperor" (Strauss) (Zonophone EF22).
 6.57: Tacet.
 7.0: News session, market reports, and sports results.
 7.40: Lecturette—Miss Inez Connop, "Dancing."
 8.0: Chimes of the G.P.O. clock.
 Studio concert by the Wellington City Silver Band, under the conductorship of Mr. C. Forrest, and assisting artists:
 8.1: Overture—Band, "Poet and Peasant" (Suppe, arrgd. Ord Hume).
 8.11: Soprano solo—Mrs. Edris Spackman, "Snowflakes" (Mallinson).
 8.15: Comedian—Frank Crumit, "The King of Borneo" (Crumit) (H.M.V. Record EA524).
 8.19: Suite—Band, "Two Indian Love Lyrics" (Woodforde-Finden): (1) Temple Bells; (2) Less than the Dust.
 8.27: Baritone solo—Mr. S. E. Rodger, "My Queen" (Blumenthal).
 8.31: Recital—Miss Maisie Carte-Lloyd, "Love's Offering Came too Late."
 8.37: Orchestral—Jacque Jacobs Ensemble, "L'Estudiantina" (Waldteufel) (Columbia Record 02560).
 8.41: Contralto solo—Miss Evelyn Robinson, "There's a Big Lot of Sunshine" (Hay).
 8.45: Tenor solos—Mr. E. W. Robins, (a) "Parted" (Tosti), (b) "Vale" (Kennedy Russell).
 8.52: Waltz—Band, "Parting Whispers" (Greenwood).
 March—Band, "St. Elmo" (Keller).
 9.4: Weather report.
 9.6: Soprano solos—Mrs. Edris Spackman, (a) "Daybreak" (Mallinson), (b) "There Lies the Warmth of Summer" (Mallinson).
 9.12: Baritone solos—Mr. S. E. Rodger, (a) "Snowy-Breasted Pearl" (Robinson), (b) "Molly's Eyes" (Hawley).
 9.17: Patrol—Band, "Jungle Drums" (Ketelbey).
 9.25: Humour—Miss Maisie Carte-Lloyd, (a) "Arkansas Traveller," (b) "Specially, Jim."
 9.32: Waltz—Jacque Jacobs Ensemble, "España" Waltz (Waldteufel) (Columbia Record 02560).
 9.36: Selection—Band, "Gems of the Old Days" (Newton).

- 9.46: Contralto solos—Miss Evelyn Robbins, (a) "Keep on Hopin'" (Maxwell), (b) "Thanks be to God" (Dickson).
 9.52: Tenor solo—Mr. E. W. Robbins, "If I Might Come to You" (Squire).
 9.56: Characteristic number—Band, "March of the Mountain Gnomes" (Eilenberg).
 March—Band, "Queen of the North" (Lithgow).
 10.3: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—THURSDAY, SEPT. 5.

- 3.0: Afternoon session—Selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0: Children's session conducted by Uncle John.
 6.0: Dinner session—"Columbia" Hour:
 Suite—Ketelbey's Concert Orchestra, "In a Fairy Realm" (Ketelbey): (1) The Moonlit Glade; (2) The Queen Fairy Dances; (3) Gnomes March (Columbia Records 02694-5).
 6.12: Tacet.
 6.15: Orchestral—Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen) (Columbia Record 02622).
 Cello solo—Gaspar Cassado, "Melodie Arabe" (Glazounov) (Columbia Record 03597).
 Orchestral—New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates) (Columbia Record 02591).
 6.26: Tacet.
 6.30: Orchestral—New Queen's Hall Light Orchestra, "Summer Days" Suite (Coates): (1) In a Country Lane; (2) On the Edge of the Lake; (3) At the Dance (Columbia Record 02590-1).
 6.42: Tacet.
 6.45: Orchestral—J. H. Squire's Celeste Octet, "Memories of Mendelssohn" (arrgd. Sear) (Columbia Record 02838).
 Orchestral—Columbia Symphony Orchestra, "Bridal Procession" (Grieg) (Columbia Record 02622).
 6.57: Tacet.
 7.0: News session.
 7.30: Lecture arranged by 3YA Primary Productions Committee—Mr. R. G. Robinson (Superintendent, Selwyn Plantation Board), "Farm Forestry."
 7.59: Overture—Rebroadcast of 2YA, Wellington.
 8.10: Soprano and mezzo-contralto duet—Grand Opera Duo, "Sainted Mother" ("Maritana"—Wallace).
 8.14: Violin solo—Miss Irene Morris, Negro Spiritual, "Nobody Knows de Trouble I've Seen" ((Clarence White).
 8.18: Tenor solo—Mr. E. Rodger, "Celeste Aida" ("Aida"—Verdi).
 8.22: Instrumental—New Queen's Hall Light Orchestra, "Peer Gynt Suite—Anitra's Dance" (Grieg) (Columbia Record L1517).
 8.26: Bass solo—Mr. James Filer, "Love that's True will Live for Ever" ("Berenice"—Handel).
 8.30: Male choir—Male Choir of Vienna, "Die Nacht" (Schubert) (Columbia Record 02836).
 8.34: Instrumental—Studio Trio, "Trio in C Minor—First Movement" (Mendelssohn).
 8.46: Soprano solo—Madame Gower Burns, "Mother, You Know the Story" ("Cavalleria Rusticana"—Mascagni).
 8.50: Pianoforte solo—Miss L. Merle Miller, "Fantasie in C Minor" ((Bach).
 8.54: Mezzo-soprano solo—Miss Myra Pollard, "The Gypsy Air" ("Carmen"—Bizet).
 8.58: Male choir—Male Choir of Vienna, "Der Tanz" (Schubert) (Columbia Record 02836).
 9.2: Weather report.
 9.4: Instrumental—Studio Trio, (a) "Tempo di Menuetto" (Beethoven), (b) "Serenade" (Chaminade).
 9.12: Tenor and bass duet—Favorita Duo, "Fickle-hearted Mim" ("La Boheme"—Puccini).
 9.16: Violin solo—Miss Irene Morris, "Gavotte" (Carse).
 9.20: Bass solo—Mr. James Filer, "The Garments Antique" ("La Boheme"—Puccini).
 9.24: Pianoforte solo—Miss L. Merle Miller, "Il Molto Continuo" (Weber).
 9.28: Mezzo-contralto solo—Miss Myra Pollard, "Sequidilla" ("Carmen"—Bizet).
 9.36: Instrumental—New Queen's Hall Light Orchestra, "Peer Gynt Suite": (1) Return of Peer Gynt; (2) Solveig's Song (Grieg) (Columbia Record 02632).
 9.40: Tenor solo—Mr. E. Rogers, "The Stars Brightly Gleaming" ("La Tosca"—Puccini).
 9.44: Soprano solo—Madame Gower Burns, "An Empress Am I" ("Manon"—Massenet).
 9.48: Vocal quartet—Grand Opera Quartet, "Fairest Daughter" ("Rigoletto"—Verdi).
 9.52: Instrumental—Basle Symphony Orchestra, "Invitation to the Waltz" (Weber) (Columbia Record 02853).
 10.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES).—THURSDAY, SEPTEMBER 5.

SILENT DAY.

Friday, September 6

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, SEPTEMBER 6.

- 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.
 5.0 : Children's session, conducted by Ned and Aunt Jean.
 6.0 : Dinner session—"His Master's Voice" Hour:
 Instrumental—National Symphony Orchestra, "Orpheus in Hades" (Offenbach) (Zonophone EF16).
 Instrumental—San Francisco Symphony Orchestra, "Caprice Viennois" (Kreisler) (H.M.V. Record D1272).
 6.12 : Tacet.
 6.15 : Instrumental—New Light Symphony Orchestra, (a) "Spring Song" (Mendelssohn), (b) "Narcissus" (Nevin) (Zonophone Record BB111).
 Instrumental—San Francisco Symphony Orchestra, "Coppelia Ballet" (Delibes) (H.M.V. Record D1272).
 Violin—Fritz Kreisler, "Tango" (Albeniz, arr. Kreisler) (H.M.V. Record DA1009).
 6.27 : Tacet.
 6.30 : Orchestral—Philadelphia Symphony Orchestra, "Invitation to the Waltz" (Weber) (H.M.V. Record D1285).
 Instrumental—San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski); (b) "Oriental" (Auber) (H.M.V. Record ED6).
 6.45 : Orchestral—San Francisco Symphony Orchestra, "Valse De Concert" (Glazounof) (H.M.V. Record D1492).
 Orchestral—San Francisco Symphony Orchestra, "Liebeslied" (Kreisler) (H.M.V. Record ED6).
 6.5 : Tacet.
 7.0 : Talk—Mr. Frank Sutherland, "Rugby Football".
 7.20 : News and market reports.
 7.40 : Talk—Rev. T. R. B. Woollaxall, "History and Utility of Esperanto."
 8.0 : Chimes.
 Special programme of New Zealand composers' and authors' works.
 8.1 : Mezzo-soprano solos, Madame Mary Towsey, (a) "There is a Quietness Among the Lillies" (Brett); (a) "Horses of the Dawn" (Brett).
 8.7 : Humorous sketch—Members of the N.Z. League of Penwomen, "Rejuvenated" (Mrs. N. Porter).
 8.22 : Baritone solos—Mr. John Bree, (a) "The Emigrant" (Brett); (b) "Eily Aroon" (Brett).
 8.29 : Instrumental—Studio Trio, "Trio in D Major—First Movement and Scherzo" (Eric Waters).
 8.37 : Soprano solo—Mrs. King, "Kotiro Poi" (King, arrgd. Waters).
 8.40 : Humorous sketch—Members of the N.Z. League of Penwomen, "To Let" (Mrs. A. Carr-Tibbetts).
 8.45 : Contralto solo—Miss Ina Thomson, "Waiata Maori" (Alfred Hill).
 8.49 : Cello solo—Miss Mollie Wright, "Melody in C" (Eric Waters).
 8.53 : Baritone solo—Mr. John Bree, "Valley of the Shadow" (Audrey Gibson Foster).
 8.57 : Weather report.
 9.0 : Talk "New Zealand Authors."
 9.10 : Mezzo-soprano solo, Madame Mary Towsey, "My Lady Passes" (Barnett).
 9.13 : Instrumental—Studio Trio, "Trio in D Major—Slow Movement and Finale" (Eric Waters).
 9.21 : Part-song, "Charming Chloe," by John Tait (MS.).
 9.28 : Contralto solo—Miss I. Thomson, "Farewell" (Trdtl.).
 9.31 : Gramophone Lecture-Recital, Mr. Karl Atkinson, "Modern Maori Melodies":
 Orchestral—"Waiata Poi" (A Maori song-dance) (Brunswick Record 15117).
 Vocal duets—(a) "E Pare-ra" (Blue Eyes); (b) "Pokarekare" (The Ripple) (Parlophone Record 2801).
 Vocal duet—"Te Arawa" (Parlophone Record 2802).
 Soprano and chorus—(a) "Tahi-nei Taru Kino" (Love Song); (b) "Kutia Haka" (War Cry) (Parlophone Record ARL04).
 10.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, SEPTEMBER 6.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Afternoon session—Selected gramophone items.
 3.40 : Relay from Messrs. Kirkcaldie and Stains' Tea-rooms of music by the Trio.
 4.0 : Selected 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—"Columbia" Hour:
 Intermezzo—Milan Symphony Orchestra, "Cavalleria Rusticana" (Mascagni) (Columbia Record 02841).
 Selection—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck) (Columbia Record 02721).
 6.12 : Tacet.
 6.15 : Selection—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck) (Columbia Record 02722).

- Waltz—Rio Marimba Orchestra, "Three O'Clock in the Morning" (Robledo) (Columbia Record 02685).
 6.27 : Tacet.
 6.30 : Instrumental—Bayreuth Festival Orchestra, "Siegfried—Prelude Act 3" (Wagner) (Columbia Record L2015).
 Waltz—Eddie Thomas' Collegians, "Moments With You" (Shilkret) (Columbia Record 01135).
 Waltz—Eddie Thomas' Collegians, "Moonlight on the Danube" (Gay) (Columbia Record 01135).
 Wurlitzer organ—Stanley MacDonald, "La Rosita" (Dupont) (Regal Record G20391).
 6.43 : Tacet.
 6.45 : Selection—Regal Orchestra, "Pagliacci" (Leoncavallo) (Regal Record G30007).
 Waltz—Marimba Orchestra, "My Isle of Golden Dreams" (Blaufluss) (Columbia Record 02685).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. A. E. Campbell M.A., "Psychology Talk—The Young Offender" (Under the auspices of the W.E.A.).
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Special studio presentation of the dramatic story "Galapagos" by Mr. J. F. Montague and company (being the true story of the voyage of the ill-fated Norwegian barque "Alexander," and the experiences which befell the captain and crew).
 9.1 : Lecturette—Honourable T. M. Wilford, Minister of Justice and Defence—"The Skyways as Highways."
 9.16 : Selection—Orchestra, "Carmen" (Bizet).
 9.24 : Soprano solos—Miss Jeanette Briggs, (a) "Four by the Clock" (Mallinson), (b) "Garden Gossips" (Cox).
 9.30 : Vocal quartet—Ariel Singers, "Isle of Beauty" (Coleridge-Taylor).
 9.34 : Humour—Mr. J. F. Montague, selected.
 9.30 : Instrumental—Orchestra, (a) "Elsa's Dream" (Wagner); (b) "Love in Springtime" (Korner).
 9.38 : Tenor solos—Mr. W. Roy Hill, modern settings of two anonymous Elizabethan poems—(a) "Weepe You No More" (Quilter); (b) "Now is my Chloris" (Lidgely).
 9.44 : Cornet and grand organ—R. Arnold Grier, "Softly Awakes My Heart" ("Samson et Delilah") (Saint-Saens) (Zonophone Record A309).
 9.48 : Mezzo-contralto solo—Miss Ngaire Coster, "Lorraine, Lorraine, Lorraine" (Spross).
 9.52 : Bass solo—Mr. J. M. Caldwell, "Young Dietrich" (Henschel).
 9.56 : Instrumental—Orchestra, "Pas Des Echarpes" (Variation) (Chaminade).
 10.4 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, SEPTEMBER 6.

- 3.0 : Afternoon session—selected studio items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 5.0 : Children's session, conducted by "Storyman."
 6.0 : Dinner session—"His Master's Voice" hour:
 Selection—Kaufman's Orchestra, "The Gypsy Baron" (Strauss) (H.M.V. C1393).
 Waltz—La Vittoria Orchestra, "Wedding of the Winds" (Hall) (Zonophone EF21).
 6.12 : Tacet.
 6.15 : Orchestral—Piccadilly Orchestra, "If Only I had You" (Davies) (H.M.V. B2713).
 Orchestral—Piccadilly Orchestra, "Lolita" (Ferrette) (H.M.V. B2713).
 Hawaiian—Kolomoku's Honoluluans, "Aloha Oe" (Liliuokalani) (Zonophone EF23).
 Orchestral—Piccadilly Orchestra, "Charmaine" (Rapee) (H.M.V. B2526).
 6.27 : Tacet.
 6.30 : Selection—New Mayfair Orchestra, "This Year of Grace" (Coward) (H.M.V. EB37).
 Orchestra—Warings Orchestra, "Ah! Sweet Mystery of Life" (Hertbert) (H.M.V. EB37).
 Hawaiian—Kolomoku's Honoluluans, "Three O'Clock in the Morning" (Robledo) (Zonophone EF23).
 6.42 : Tacet.
 6.45 : Orchestral—Victor Concert Orchestra, "Minuet in G" (Paderewski) (H.M.V. EA240).
 Orchestral—Victor Concert Orchestra, "Amaryllis" (Thys) (H.M.V. EA240).
 Orchestral—Piccadilly Orchestra, "Bird Songs at Eventide" (Coates) (H.M.V. B2528).
 Waltz—International Concert Orchestra, "Blue Danube" (Strauss) (Zonophone EF21).
 6.57 : Tacet.
 7.0 : News session.
 7.59 : Opening announcement.
 Rebroadcast of 2YA, Wellington (special programme, featuring the dramatic play "Galapagos," produced under the direction of Mr. J. F. Montague, of Auckland).
 10.0 : His Master's Voice" dance programme:
 Medley waltz—The Troubadours, "Popular Songs of Yesterday" (H.M.V. EB33).

- Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "Dusky Steve-dore" (Razaf) (H.M.V. EA452).
 Foxtrot with vocal refrain—Shilkret's Orchestra, "Just a Sweetheart" (Shilkret) (H.M.V. EA464).
 Foxtrot—Shilkret's Orchestra, "When Sweet Susie Goes Stepping By" (Kaufman) (H.M.V. EA452).
 10.13: Tenor solo—Lewis James, "Roses of Yesterday" (Berlin) (Zonophone EE122).
 Hawaiian—Hilo Hawaiian Orchestra, "Honolulu Sweetheart" (Davis) (H.M.V. EA415).
 Waltz with vocal refrain—The Troubadours, "Was It Love?" (Caesar) (H.M.V. EA464).
 Foxtrot with vocal refrain—Goldkette's Orchestra, "That's What Put the Sweet in Home Sweet Home" (Lowry) (H.M.V. EA487).
 10.25: Tenor solo—Barrington Hooper, "For You Alone" (Geehl) (Zonophone 5204).
 Foxtrot with vocal refrain—Goldkette's Orchestra, "Sweethearts on Parade" (Lombardo) (H.M.V. EA487).
 Waltz with vocal refrain—The Troubadours, "Another Kiss" (Schert-zinger) (H.M.V. EA489).
 Foxtrot with vocal refrain—Jack Hylton's Orchestra, "In the Woodshed She Said She Would" (Johnson) (H.M.V. EA480).
 10.38: Male trio—Melody Three, "Remember Me to Mary" (Green) (Zono-phone EE133).
 Foxtrot with vocal refrain—Shilkret's Orchestra, "Jimmy Valentine" (Madden) (H.M.V. EA475).
 Selection—New Mayfair Orchestra, "This Year of Grace" (Coward) (H.M.V. EB37).
 10.48: Bass with chorus—Paul Robeson, "Plantation Songs" (H.M.V. C1585).
 Foxtrot—Rhythm Band, "Teach Me to Dance Like Grandma" (Cow-ard) (H.M.V. EA471).
 Foxtrot with vocal refrain—Shilkret's Orchestra, "Gotta Be Good" (Schert-zinger) (H.M.V. EA489).
 Foxtrot—Rhythm Band, "A Room With a View" (Coward) (H.M.V. EA471).
 Foxtrot with vocal refrain—Jack Hylton's Orchestra, "In the Shadows" (Finck) (H.M.V. EA480).
 11.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, SEPTEMBER 6.

- 3.0: Town Hall Chimes.
 3.1: Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Town Hall chimes.
 6.1: Children's session conducted by Aunt Sheila and Big Brother Bill.
 7.0: News session.
 7.30: Lecturette, by Mr. H. Greenwood, of the Dunedin Athenæum, "Book Review."
 8.0: Town Hall chimes.
 8.1: Overture—Berlin State Opera Orchestra, "Martha" (Flotow) (H.M.V. Record C1506).
 8.5: Presentation of the light opera "Sally" (Kern) by the 4YA Har-monists.
 8.40: Instrumental—4YA Broadcasting Trio, (a) "Viennese Popular Song" (Kreisler), (b) "Traumerei" and "Romance" (Schumann).
 8.50: Baritone solos—Mr. F. M. Tuohy, (a) "For the Green" (Lohr), (b) "Lady Mine" (Lohr).
 8.57: Choir—Salisbury Singers, "Round About a Wood" (Morley) (Colum-bia Record 01498).
 9.0: Weather report.
 9.2: Pianoforte solo—Mrs. Ernest Drake, "Moment Musical" (Schubert).
 9.7: Mezzo-soprano solos—Miss Mollie Andrews, (a) "Snowflakes" (Mal-linson), (b) "Go Down to Kew in Lilac Time" (Peel).
 9.14: Grand opera and orchestra—Victor Symphony Orchestra, "Kamennoi-Ostrow" (Rubinstein) (H.M.V. Record EB10).
 9.18: Tenor solos—Mr. H. A. Johnston, (a) "Invictus" (Huhn), (b) "On Wings of Song" (Mendelssohn).
 9.25: Violin solo—Mr. Frank Parsons, "Sonata" (Handel).
 9.30: Male choir—The Salisbury Singers, "Sleep, Gentle Lady" (Planche) (Columbia Record 01498).
 9.33: Instrumental—4YA Broadcasting Trio, "Celebrated Andante" (Reis-siger).
 9.39: Soprano solos—Miss Mae Matheson, (a) "Lovely Spring" (Coenn), (b) "The Silver Ring" (Chaminade).
 9.46: Cello solo—Mr. P. J. Palmer, "Melodie Arabe" (Glazounow).
 9.51: Orchestral—Philadelphia Symphony Orchestra, "Toccata and Fugue in D Minor" (Bach) (H.M.V. Record D1428).
 10.0: Close down.

Saturday, September 7

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, SEPTEMBER 7.

- 3.0: Relay description of representative Rugby football match from Eden Park.
 4.30 (approx.): Close down.

- 5.0: Children's session, conducted by Cinderella.
 6.0: Dinner session—"Columbia Hour."
 March—H.M. Grenadier Guards Band, "Martial Moments" (arrgd. Winter) (Columbia 9065).
 Waltz—Eddie Thomas' Collegians, "Missouri Waltz" (Logan) (Colum-bia Record 02553).
 6.12: Tacet.
 6.15: Violin and wurlitzer organ—"Evening in the Desert" (Hermité) (Re-gal G20420).
 Hawaiian—South Sea Islanders, "Dreamy Hilo Bay" (Clark) (Colum-bia Record 01162).
 March—Columbia Symphony Orchestra, "March of the Toys" (Her-ber) (Columbia Record 02651).
 Pianoforte solo—Percy Grainger, "Molly on the Shore" (Grainger) (Columbia 03575).
 6.27: Tacet.
 6.30: Waltz—Eddie Thomas' Collegians, "Till We Meet Again" (Whiting) (Columbia Record 02553).
 Waltz—Eddie Thomas' Collegians, "Beautiful Ohio" (Earl) (Colum-bia Record 02651).
 Piccolo duet—Jean and Pierre Gennin, "Rippling Streams" (Gennin) (Columbia Record 02575).
 6.41: Tacet.
 6.45: Violin and organ—Marrnello, "Once" (Saunders) (Columbia Record G20420).
 Xylophone solo—W. W. Bennett, "Gee Whiz" (Byron) (Columbia Record 02575).
 Hawaiian—South Sea Islanders, "Lei Lani" (Heagney) (Columbia Record 01162).
 Orchestral—Stellar Dance Band, "In the Shadows" (Finck) (Regal Record G20451).
 6.58: Tacet.
 7.0: News session, sports results—book review.
 8.0: Chimes.
 8.1: Overture—Studio Orchestra, "Merely Molly" Selection (Finck).
 8.11: Vocal duet—Basham-Briggs Duo, "Just a-Wearyin'" (Bond).
 8.14: Vocal novelty—The Snappy Three, (a) "Out of the Dawn" (Donald-son), (b) "In a Bamboo Garden" (Donaldson).
 8.20: Instrumental novelty—Bonzo Five, (a) "Sally of My Dreams" (Ker-nall), (b) "Mississippi Moon" (Terese).
 8.28: Baritone solo—Mr. Arthur Briggs, "The Shade of the Palm" ("Floro-dora"—Stuart).
 8.32: Dance suite—Studio Orchestra, "Nell Gwynn Dances" (German): (1) Country Dance, (2) Pastoral Dance, (3) Merry-makers' Dance.
 8.40: Contralto solos—Mrs. Daisy Basham, (a) "The Boatman" (Cursch-mann), (b) "When I Awake" (Wright).
 8.47: Saxophone duet—Messrs. Roadley and Blakey, "Serenade" (Drigo).
 8.51: Novelty foxtrot—Bonzo Five, "Tu Tu" (Ehrlich).
 8.55: Vocal duet—Basham-Briggs Duo, "In Springtime" (Boosey) (Newton).
 8.59: Weather report.
 9.1: Instrumental—Studio Orchestra, "Two Songs": (1) "Leave Me"; (2) "Songs My Mother Taught Me" (Dvorak).
 9.10: Vocal trios—Snappy Three, (a) "Marie" (Berlin), (b) selected solo, (c) "Chiquita" (Wayne).
 9.19: Instrumental novelty—Bonzo Five, (a) "American Tune" (Skinner), (b) "Me and the Man in the Moon" (Monaco).
 9.27: Humorous dialogue—Angela Baddeley and L. Du Garde Peach, "Motoring Without Tears" (Peach) (H.M.V. Record B2813).
 9.35: Instrumental—Orchestra, (a) "Soldier's Toast" (Dicks), (b) flute solo with orchestral accompaniment, "Serenade" (Titl).
 9.45: Vocal duo—Basham-Briggs Duo, a group of Tosti's songs, (a) baritone solo, "My Dreams," (b) duet, "Beauty's Eyes," (c) "contralto solo, "Good-bye."
 9.53: Saxophone duet—Messrs. Roadley and Blakey, "Sweet Hawaiian Moonlight" (Parish).
 9.56: Instrumental novelty—Bonzo Five, "Savoy American Medley" (Somers).
 10.0: "His Master's Voice" Dance Programme:
 March—Philadelphia Symphony Orchestra, "Rakoczy March" (Berlioz) (H.M.V. ED7).
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "In My Bou-quet of Memories" (Lewis) (H.M.V. EA362).
 Foxtrot with vocal refrain—Waring's Pennsylvanians, "In the Evening" (Hanley) (H.M.V. EA368).
 Waltz with vocal refrain—The Troubadours, "When Love Comes Steal-ing" (Rapee) (H.M.V. EA410).
 10.14: Baritone solo—Lawrence Tibbett, "Drink to Me Only" (Calcott) (H.M.V. DA886).
 Waltz with vocal refrain—The Troubadours, "A Kiss Before Dawn" (Perkins) (H.M.V. EA410).
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "My Angel" (Pollack) (H.M.V. EA362).
 Foxtrot—Nat Shilkret's Orchestra, "Get Out and Get Under the Moon" (Tobias) (H.M.V. EA368).
 10.27: Orchestral—Philadelphia Symphony Orchestra, "Samson et Delilah" (Saint-Saens) (H.M.V. ED7).
 Male voices—The Revellers, "Mammy is Gone" (De Sylva) (H.M.V. EA384).
 Pianoforte solo—Pauline Alpert, "The Doll Dance" (Brown) (Zono-phone EE98).

- Waltz—Bert Firman's Orchestra, "I'm Away from the World" (Clare) (Zonophone 5099).
- Dance orchestra—Salon Orchestra, "My Blue Heaven" (Whiting) (H.M.V. EB18).
- 10.40: Organ solo—Edwin Lemare, "Aloha-oe" (Liliuokalani) (Zonophone EE93).
- Male voices—The Revellers, "Dream River" (Brown) (H.M.V. EA384).
- Foxtrot—Bert Firman's Orchestra, "When I Ring Your Front Door Bell" (Lyn) (Zonophone 5099).
- Dance orchestra—New Light Symphony Orchestra, "Just a Memory" (De Sylva) (H.M.V. EB18).
- 10.53: Comedian—Sir Harry Lauder, "Just Got Off the Chain" (Lauder) (H.M.V. D1434).
- Waltz—George Olsen's Music, "King for a Day" (Lewis) (H.M.V. EA429).
- Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "Mississippi Mud" (Barria) (H.M.V. EA429).
- 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, SEPTEMBER 7.

- 3.0: Chimes of the G.P.O. clock.
- 3.1: Relay description of football match from Athletic Park.
- 5.0: Children's session, conducted by Uncle Toby and Aunt Gwen.
- 6.0: Dinner session—"His Master's Voice" Hour.
- Instrumental—Piccadilly Orchestra, (a) "My Beloved Gondolier" (Tibor); (b) "Souvenir de Carpi" (Recce) (H.M.V. Record B2575).
- Instrumental—New Light Symphony Orchestra, "Just a Memory" (De Sylva) (H.M.V. Record EB18).
- Violin and cinema organ—Elsie Southgate, "I Hear You Calling Me" (Marshall) (Zonophone Record 5109).
- 6.12: Tacet.
- 6.15: Waltzes—Marek Weber's Orchestra, "Potpourri of Waltzes" (Robert) (H.M.V. Record C1544).
- Waltz—Hilo Hawaiian Orchestra, "Sweet Hawaiian Dream Girl" (Williams) (Zonophone Record EE156).
- 6.26: Tacet.
- 6.30: Instrumental—New Light Symphony Orchestra, "Scene De Ballet Marionettes" (Glazounov) (H.M.V. Record B2754).
- Violin and cinema organ—Elsie Southgate, "Rose in the Bud" (Tate) (Zonophone Record 5109).
- Instrumental—New Light Symphony Orchestra, "Persiflage" (Francis) (H.M.V. Record B2754).
- Instrumental—Jack Hylton's Orchestra, "When the White Elder-Tree Blooms Again" (Doelle) (H.M.V. Record C1616).
- 6.44: Tacet.
- 6.45: Instrumental—Salon Orchestra, "My Blue Heaven" (Whiting) (H.M.V. Record EF18).
- Waltz—Hilo Hawaiian Orchestra, "Sleepy Honolulu Town" (Earl) (Zonophone Record EE156).
- Instrumental—Jack Hylton's Orchestra, "I Kiss Your Hand" (Erwin) (H.M.V. Record C1616).
- 6.56: Tacet.
- 7.0: News session, market reports and sports results.
- 7.40: Lecture—Mr. V. Hutchinson, Travel Talk "The Blue Riband of the Atlantic."
- 8.0: Chimes of the G.P.O. clock.
- 8.1: Overture—Orchestra: (a) "Castles in Spain" (Ancliffe); (b) "The Dancing Lesson" (Oliver).
- 8.9: Vocal quartette—Melodie Four, "In the Shadows" (Finck).
- 8.13: Mandoline band—Mrs. Mildred Kenny's Mandolin Band, (a) "Rialto Polka March" (Ellis); (b) "O'er the Lagoon" (Pareletti).
- 8.20: Comic song and whistling solo—Mrs. Winifred Birch-Johnston, "He Picked Me a Bunch of Buttercups" (Collins); (b) "Rosebuds" (Arditi).
- 8.28: Instrumental—Orchestra, "By the Swanee River" (Myddleton).
- 8.36: Tenor solo—Mr. Sam Duncan, "An Evening Song" (Blumenthal).
- 8.40: Violin and cinema organ—De Groot and Terence Casey, (a) "Cavatina" (Raff); (b) "Parted" (Tosti) (H.M.V. Record B2920).
- 8.46: Humour—Mr. Len Ashton, "Please Could You Oblige Me with a Stamp?" (Weston and Lee).
- 8.51: Instrumental—Orchestra, request number.
- 8.59: Weather report.
- 9.1: Vocal quartette—Melodie Four, "Cos I'd Nothing Else to Do" (Parks).
- 9.5: Mandolin band—Mrs. Mildred Kenny's Mandolin Band, (a) "Les Picadors' March (Grimshaw); (b) "To the Woods" (Warner).
- 9.12: Baritone solos—Mr. R. S. Allwright, (a) "Fleurette" (McGeogh); (b) "The Star" (Foster).
- 9.19: Instrumental—Orchestra, "By the Blue Hawaiian Waters" (Ketelbey).
- 9.27: Humour—Mr. Len Ashton, "Misery Farm" (MS.).
- 9.34: Saxophone solo—Rudy Wiedoeft, "Minuet" (Beethoven) (Columbia Record 01176).
- 9.36: Bass solo—Mr. W. W. Marshall, "The Courier of Moscow" (Rodney).
- 9.42: Tenor solo—Mr. Frank Bryant, "Duna" (McGill).
- 9.46: Vocal quartette—Melodie Four, "While I Have You" (Tosti).
- 9.50: Instrumental—Orchestra, Dance Novelties.
- 10.0: "Brunswick" Dance Programme.
- Foxtrot with vocal chorus, Ray Miller's Orchestra, "He, She and Me" (Newman) (Brunswick Record 4258).
- Novelty foxtrot—Joe Rines' Orchestra, "Fashionette" (Glogau) (Brunswick Record 4199).

- Foxtrot with vocal chorus, Ray Miller's Orchestra, "Angry" (Brunies) (Brunswick Record 4224).
- 10.13: Baritone solo—Richard Bonelli, "Luna D'Estate" (Summer Moon) (Tosti-Mazzola) (Brunswick Record 15198).
- Foxtrot tango with vocal chorus—Colonial Club Orchestra, "Mi Amado" (My Lover) (Lewis) (Brunswick Record 4241).
- Foxtrot with vocal chorus—The Clevelanders, "What a Girl! What a Night!" (Sanders) (Brunswick Record 4205).
- Foxtrot—Ray Miller's Orchestra, "That's a Plenty" (Brunswick Record 4224).
- 10.25: Baritone solo—Richard Bonelli, "Visione Veneziana" (Vision of Venice) (Brogi-Orvieto) (Brunswick Record 15198).
- Foxtrot with vocal chorus—Six Jumping Jacks, "Olaf" (Gilbert) (Brunswick Record 4219).
- Foxtrot with vocal chorus—Colonial Club Orchestra, "Yo Te Amo Means I Love You" (Bryan) (Brunswick Record 4241).
- Waltz with vocal chorus—Ray Miller's Orchestra, "The Waltz I Can't Forget" (Kahn) (Brunswick Record 4258).
- 10.37: Vocal duet—Lester McFarland and Robt. Gardner, "Birmingham Jail" (Trdtl.) (Brunswick Record 293).
- Foxtrot with vocal chorus—Colonial Club Orchestra, "Monna Vanna" (Sweetheart Sublime) (Brunswick Record 4186).
- Vocal duet with novelty accompaniment—Frank Luther and Carson Robison, "My Tennessee Mountain Home" (Davis) (Brunswick Record 297).
- Foxtrot with vocal chorus—The Six Jumping Jacks, "The Monte Carlo Song" (Endor) (Brunswick Record 4219).
- 10.50: Vocal duet—Lester McFarland and Robt. Gardner, "Go and Leave Me if you Want To" (Trdtl.) (Brunswick Record 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 Record 4223).
- 11.0: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, SEPT. 7.

- 3.0: Relay description of football match from Lancaster Park.
- 4.45: Close down.
- 5.0: Children's session, conducted by Aunt Pat and Chuckles.
- 6.0: Dinner session—"Parlophone" hour:
- Selection—Edith Lorand Orchestra, "The Vagabond King" (Friml) (Parlophone E10601).
- Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss) (Parlophone A4010).
- 6.12: Tacet.
- 6.15: Selection—Frank Westfield's Orchestra, "Chu Chin Chow" (Norton) (Parlophone A2678).
- Piano and orchestra—Raia da Costa, "When Day is Done" (De Sylva) (Parlophone A4041).
- Wurlitzer organ—Leslie Harvey, "Absent" (Metcalfe) (Parlophone A2728).
- 6.29: Tacet.
- 6.30: Waltzes—Dajos Bela Orchestra, (a) "Oh, Spring, How Fair Thou Art" (Lincke); (b) "Songe d'Amour Apres le Bal" (Ozibulka) (Parlophone E10602).
- Instrumental—Dajos Bela Orchestra, "Humoresque" (Dvorak) (Parlophone E10559).
- 6.42: Tacet.
- 6.45: Dance orchestra—Dorsey Bros. Orchestra, "Was It A Dream?" (Coslow) (Parlophone A2567).
- Wurlitzer organ—Leslie Harvey, "Until" (Sanderson) (Parlophone A2728).
- Waltz—Dajos Bela Orchestra, "Faust" (Gounod) (Parlophone A4010).
- 6.55: Tacet.
- 7.0: News session.
- 7.30: Sports results to hand.
- 8.0: Overture—Rebroadcast of 2YA, Wellington.
- 8.9: Vocal quartet—Valencia Quartet—"John Peel" (Williams).
- 8.12: Soprano solos—Mrs. Lucy O'Brien, (a) "Invitation" (Berry); (b) "A Heart That's Free" (Robyn).
- 8.17: Humour—Mr. Geo. Titchener, "Shake, Shake, Shakespeares" (MS).
- 8.23: Piano improvisations—Mr. Noel Newson, "Musicians and How They Musish" (MS).
- 8.29: Tenor solo—Mr. T. G. Rogers, "That Old Fashioned Mother of Mine" (Nicholls).
- 8.33: Jazz songs at piano with ukelele—Joyous Duo, "Wedding of the Painted Doll" (Brown).
- 8.37: Wurlitzer organ—G. T. Pattman, "Cherie Waltz" (Valentine) (Columbia Record 01344).
- 8.40: Contralto solos—Miss Mary Taylor, (a) "Spring Goes Roaming" (Windsor); (b) "Harbour Night Song" (Sanderson).
- 8.44: Recital—Miss Ruby Boot, "Twas at the Pictures" (Herbert).
- 8.52: Baritone solo—Mr. Graham Young, "The Song of Hybrias the Cretan" (Elliott).
- 8.56: Orchestral—Paul Whiteman's Orchestra, "Gypsy" (Gilbert) (Columbia Record 07585).
- 9.0: Weather report.
- 9.2: Soprano solo, followed by vocal quartet—Mrs. Lucy O'Brien and Valencia Quartet—(a) "A Brown Bird Singing" (Haydn Wood); (b) "Turtle Dove" (Williams).

- 9.9: Humour—Mr. Geo. Titchener, "My Advice" (MS).
 9.14: Piano improvisations—Mr. Noel Newson, "Harmonica" (The Girl with a Single Tune) (MS).
 9.19: Tenor solo—Mr. T. G. Rogers, "Doreen" (Allon).
 9.23: Jazz songs at piano—Joyous Duo, (a) "I Lift My Finger and Say Tweet, Tweet" (Sarony); (b) "Can't Help Lovin' Dat Man" (Kern).
 9.30: Accordion solos—Johnny Sylvester, (a) "Ciribiribin"; (b) "My Florence Waltz" (Regal Records 20 351 and G2040 5).
 9.36: Soprano and contralto duet—Valetta Duo, "In the Springtime" (Newton).
 9.41: Wurlitzer organ solo—G. T. Pattman, "Worryin' Waltz" (Fairman) (Columbia 01344).
 9.44: Recitals—Miss Ruby Boot, (a) "Mrs. Meek" (Smith); (b) "The Last Trip of Mrs. 'Odon" (Payne).
 9.50: Baritone solo, followed by vocal quartet—Mr. J. Graham Young and Valencia Quartet, (a) "Song of the Bow" (Aylward); (b) "Softly Fall the Shades of Evening" (Hatton).
 9.57: Waltz—Symphony Orchestra, "Artists Life" (Strauss) (Columbia 02577).
 10.1: "His Master's Voice" dance programme:
 Foxtrot—Arcadians' Dance Orchestra, "Bluebird, Sing Me a Song" (Davis) (Zonophone 5201).
 Foxtrot—Bert Firmans Orchestra, "'Cause I'm in Love" (Donaldson) (Zonophone EE123).
 Foxtrot—Jack Hylton's Orchestra, "Forty-seven Ginger-Headed Sailors" (Sarony) (H.M.V. EA448).
 10.10: Tenor solo—Franklyn Baur, "At Dawning" (Cadman) (Zonophone 5204).
 Foxtrot—Bert Firman's Orchestra, "I'm a Broken-hearted Blackbird" (Fields) (Zonophone EE123).
 Foxtrot—All Star Orchestra, "There's a Rainbow Round My Shoulder" (Olson) (H.M.V. EA436).
 Waltz—Arcadians Dance Orchestra, "Nicolette" (Batten) (Zonophone 5201).
 10.13: Male chorus—"Over There" Medley (H.M.V. EB33).
 Hawaiian—Hilo Hawaiian Orchestra, (a) "Kawaihau Waltz" (Kealakai); (b) "My Hula Love" (H.M.V. B2799).
 Male voices—Salon Group, "Sonny Boy" (Jolson) (H.M.V. EB35).
 10.25: Bass-baritone—Peter Dawson, "Lorraine, Lorraine, Lorree" (Capel) (H.M.V. B2759).
 Foxtrot—All Star Orchestra, "She Didn't Say Yes" (Strong) (H.M.V. EA467).
 Waltz—Warings' Pennsylvanians, "Just Another Night" (Donaldson) (H.M.V. EA462).
 19.38: Male voices—Salon Group, "Jeannine" (Gilbert) (H.M.V. EB35).
 Wurlitzer organ solo—Jesse Crawford, "Amapola" (Lacalle) (H.M.V. EA488).
 Foxtrot—Warings' Pennsylvanians, "I'm Sorry, Sally" (Kahn) (H.M.V. EA462).
 Waltz—Arcadians' Dance Orchestra, "Couldn't You Have Waited?" (Mitchell) (Zonophone 5215).
 10.50: Male trio—Melody Three, "Pals, Just Pals" (Dreyer) (Zonophone EE133).
 Wurlitzer organ solo—Reginald Foort, "Just Like Darby and Joan" (Gilbert) (H.M.V. B2775).
 Foxtrot—Arcadians' Dance Orchestra, "Juanita" (Flynn) (Zonophone 5215).
 11.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, SEPTEMBER 7.

- 3.0: Town Hall chimes.
 3.1: Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Town Hall chimes.
 6.1: Children's session, conducted by Uncle George.
 7.0: News session.
 8.0: Relay of 3YA Christchurch (Vaudeville concert programme, provided by the Valencia Quartet (singing old favourites): Mr. George Titchener (humour), the Joyous Duo (popular songs at the piano), Miss Ruby Boot (elocutioniste), and Mr. Noel Newson (improvisations on the piano).
 10.0: "His Master's Voice" Dance Programme:
 Foxtrot—Jack Hylton's Orchestra, "Swords and Sabres" (Bennett) (H.M.V. Record B5160).
 Foxtrot with vocal chorus—Rhythmic Eight, "Possibly" (Gibbons) (Zonophone Record EE97).
 Wurlitzer organ solo—Jesse Crawford, "Jeannine, I Dream of Lilac Time" (Gilbert) (H.M.V. Record EA425).
 10.9: Baritone solo—Peter Dawson, "Believe Me If All Those Endearing Young Charms" (Moore) (H.M.V. Record DA886).
 Wurlitzer organ solo—Jesse Crawford, "Ten Little Miles from Town" (Kahn) (H.M.V. Record EA426).
 Foxtrot—Jack Hylton's Orchestra, "Palace of Dreams" (Waller) (H.M.V. Record B5159).
 Foxtrot—Jack Hylton's Orchestra, "Babying You" (Ruby) (H.M.V. Record B5160).
 Waltz with male quartet—The Troubadours, "Beggars of Life" (Brennan) (H.M.V. Record EA441).

- 10.24: Tenor solo—Jno. McCormack, "Mother Machree" (Ball) (H.M.V. Record DA958).
 Tango Argentino—International Novelty Orchestra, "El Choclo" (Viloldo) (H.M.V. Record EA364).
 Waltz—The Troubadours, "Cielito Lindo" (Beautiful Heaven) (H.M.V. Record EA349).
 Foxtrot with vocal refrain—Kahn's Orchestra, "In a Bamboo Garden" (Donaldson) (H.M.V. Record EA435).
 10.36: Comedian—Harry Lauder, "The Pirate" (Lauder) (H.M.V. Record D1434).
 Chorus—Light Opera Company, "Hit the Deck" vocal gems (Youmans) (H.M.V. Record G1435).
 Foxtrot—Jack Hylton's Orchestra, "Don't Forget" (Hanley) (H.M.V. Record B5159).
 Foxtrot with vocal chorus—Rhythmic Eight, "There's a Ricketty Racketty Shack" (Tobias) (Zonophone Record EE97).
 Hawaiian—Ferreira and Paaluhl, "Killima Waltz" (Trdtl.) (H.M.V. Record B2369).
 Marimba Orchestra—"When It's Live Time in Hawaii" (Heagney) (Zonophone Record 3852).
 Foxtrot—Paul Whiteman's Orchestra, "O, Ya Ya" (Klages) (H.M.V. Record EA340).
 Foxtrot—Nat Shilkret's Orchestra, "Sometimes I'm Happy" (Youmans) (H.M.V. Record EA253).
 11.0: Close down.

Sunday, September 8

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, SEPTEMBER 8.

- 3.0: Afternoon session—selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.30: Close down.
 6.0: Children's session, conducted by Uncle Leo.
 6.55: Relay of service from St. David's Church:
 Preacher: Rev. D. C. Herron.
 Organist: Mr. E. S. Craston.
 8.30 (approx.): Studio concert.
 Orchestra and chorus—Milan Symphony Orchestra, "Aida—Grand March" (Verdi) (Columbia Record 02803).
 Contralto solos—Miss Edna Peace, (a) "The Birds of Bethlehem" (Davies); (b) "Ave Maria" (Kahn).
 Monologue—Bramsy Williams, "Not Old" (Day) (Columbia Record 01178).
 Organ solo—Francis W. Sutton, "Suite Gothique—Introduction" (Boellman) (Columbia Record 01878).
 Baritone solo—Mr. G. College, "How Willing My Paternal Love" (Handel).
 Soprano solo—Mrs. I. Raynes, "Song of Thanksgiving" (Allitsen).
 Band selection—H.M. Grenadier Guards Band, "Merrie England" (German) (Columbia Record 02804).
 Contralto solo—Miss E. Peace, "Oh, For a Burst of Song" (Allitsen).
 Baritone solos—Mr. G. College, (a) "The Carpet" (Sanderson); (b) "A Farewell" (Liddle).
 Pianoforte solo—Ignaz Friedman, "Hark, Hark, the Lark" (Schubert) (Columbia Record 03630).
 Soprano solo—Mrs. I. Raynes, "The Nightingale" (Batten).
 Orchestral—Royal Philharmonic Orchestra, "Summer Night on the River" (Delins) (Columbia Record 03632).
 9.30: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, SEPTEMBER 8.

- 3.0: Afternoon session, selected studio items.
 4.30: Close down.
 7.0: Relay of service from St. Andrew's Presbyterian Church. Preacher: Rev. R. J. Howie. Organist and choirmaster: Mr. Frank Thomas.
 8.15 (approx.): Relay from His Majesty's Theatre of recital by the Wellington Municipal Tramways Band under the conductorship of Mr. E. Franklin.
 Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, SEPTEMBER 8.

- 3.0: Afternoon session—selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.30: Children's song service, contributed by the children of the Church of Christ.
 6.15: Hymn chimes from Studio.
 6.30: Relay of service from the Church of Christ, Moorhouse Avenue:
 Preacher: Pastor A. E. Tebay. Organist: Miss E. Hepburn.
 Musical director: Mr. H. Ames.
 7.45: (approx.). Mezzo-soprano solo—Miss Millicent Jennings, "Cradle Song of the Virgin" ("Choral Drama—Bethlehem") (Rutland).
 Tenor solo—Mr. W. Trewern, "An Evening Song" (Blumenthal).
 Organ solo—Reginald Goss-Custard, "The Question" (Wolstenholme) (H.M.V. Record B415).

Times Change.

I HAVE from time to time forwarded comments re programmes, mostly of a critical nature, but I am glad to be able to say that there has been a very great improvement in programmes from 2YA and 3YA.

I have been a travelling demonstrator for nearly five years, and have unique opportunities for gauging the popular vote, and I regret to say there is almost complete unanimity in the opinion that the programmes from 1YA could be much improved. This opinion does not refer to the afternoon sessions or the children's hour, which are very well spoken of.—C.J.F. (Auckland).

"House of Disappearance."

EVEN speaking as a Scot, I must admit that the broadcasting service is well worth the money; I can say nothing higher in its praise. One thing I cannot understand, however, is the almost total lack of any definite appreciation of the various items broadcast by the New Zealand stations in the letters published in your correspondence columns.

They mostly state, what is quite correct, that the programmes are excellent, but very few pick out the items which please them most and let the Broadcasting Company and the various artists "blush to find it known" how much their efforts have been delighted in. Personally my ideas seem to coincide with "An Old Sea Dog" (July 26) in every way, and I'd like to shake hands with him. However, if you are giving any prizes for picking out the most popular artist on your programmes (leaving out Mr. Announcer) I will give my vote for Mr. Victor S. Lloyd as often as you like.

His Saturday night's series of little sketches kept my feet on the mantelpiece the whole evening—quite an unheard-of proceeding for me—and his gloriously impertinent adaptation of



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.

"The House of Disappearance," which in its finale included at least two other perfectly splendid shockers, filled me with profound admiration for his genius. I had to take the book from the shelf and reread it once more to find out exactly what he had done.

Doubtless those who haven't read the book will still be wondering who killed the policeman and what happened to the butler!

However, may I say that the Broadcasting Company, and Australia as well, missed the opportunity of its life last night when they failed to relay the landing and reception of the voyagers in the Graf Zeppelin at Tokio. It was the most gorgeous and weird performance which I ever had the pleasure of listening to. Conditions were such, from JOHK in particular, that every cough and movement of the feet on the boards of the reception platform were distinctly audible; and the singing of the old familiar hymn tune which in my ignorance I always thought was the Austrian National Anthem was perfect, whilst every word of the speeches

and their translation into Japanese were particularly clear. The "Oh, Oh, Oh's" of appreciation, corresponding with the British "Hear! Hear!", would have brought joyous reminiscences to the heart of any "Digger" who had sojourned in Cairo, and the thundering "Banzais" (incidentally, the only Japanese word I know the meaning of, even "sho" is beyond my comprehension), with which the performance ended at about 10.15 p.m. was worth the price of the license fee and the whole outfit thrown in. But what a win for 2YA if they had relayed it!—J. Fraser (Ohura).

"Purest Ray Serene."

I have much pleasure in saying "Amen" to the letter of "Champion of One Who Can't Hit Back." We get better results from 2YA than any other station in New Zealand, and the announcer is "a gem of purest ray serene." Carry on, Mr. Announcer, and please do not leave out your second good night, or we shall be sadly disappointed. That cheery good-night brings forth an appreciative smile to every face here.—Neutrodyne (Otago).

V.U.C. Debate.

WE enjoyed listening to the debate at Victoria University very much indeed, and hope more of this style of item will soon broadcast.—I.R. (Kaitiaki).

Maori Pageant.

I CANNOT let the occasion pass without a word of congratulation on the Maori Pageant performance. In fact, all programmes are excellent, and it beats me how it is there are so many growlers. Once again, congratulations for a programme which has never been excelled in Australia or New Zealand.—Nidray (Karetu).

I TAKE this opportunity to express our appreciation of the service rendered to the listener-in by the R.B.C. Have greatly enjoyed the Maori Pageant programme this evening, and wish the company every success for the coming year.—Mr. Smith (Master-ton).

PLEASE convey to the party voicing the Maori Pageant on Thursday and Friday last our best thanks and admiration of their entertainment. It was certainly the best programme yet put forth from any of the New Zealand stations; in fact, it was the first broadcast we have ever listened to in its entirety, not having to turn off the button once. Instead, it was so good that we sat up the following evening

to listen to it again. The theme was excellently thought out, keeping interest at high pitch all the time. It was wonderful to live a day 900 years ago, to hear the Maori canoes arriving in New Zealand waters, and almost, in imagination, to see them. The speaking was always good, and wonderfully articulated, the music was elevating (one thought what a treat to have one evening clear of that horrid, raucous, jarring jazz). The singing was as our Maori brethren always sing, soothing and satisfying, their rendering of "Home, Sweet Home" the finest we have ever heard. And the thrill of the whole evening when Parakaia spoke. We could almost see the old chief tottering up to the microphone, leaning heavily on two sticks, almost overcome with emotion having his little say. His rendering was superb. The whole, truly a great entertainment, not capable of being surpassed in the world over, I am sure. At this same time, may we add a word of appreciation and thanks to the Maori children from the Kaik who provided such an excellent native entertainment at the Dunedin Radio Exhibition. There we had the added pleasure of actually seeing them as well as hearing them, and the young lady whose mat, or skirt (which ever you call it) would keep slipping, provided unrehearsed, real merriment to the large audience. Maori friends, we thank you; please think out another as great entertainment, and let us hear you again next year.—G. Steel (Dunedin).

Old-time Music.

I NOTE a good suggestion by J.T. Kaitangata ("Radio Record," 9/8/29), re old-time dance music and songs. I believe we don't get enough of them. I would suggest that each of the YA stations put on an old-time night on the lines suggested by J.T. once a month. This would mean an old-time night each week, and each station would have a whole month to arrange each programme. It would help to draw more of the old people into the fold of listeners. It is a delight to watch the old people when the good old songs they understand come over. Trusting to see more on this subject in your columns.—P.B. (Wyndham).

Old-time Dancing.

IN the last copy of this paper just to hand, I read where J.T. (Kaitangata) protests against the dance programme, and wants old-time dance music. I don't altogether protest against the dance programme, but I will back J.T. up in regard to old-time music by offering you a suggestion. Would it not be possible for 2YA to set aside, say, one Saturday night before the winter is over, to an old-time dance programme? No doubt the dance music put over is only catering for the town people, who are next door to a dance hall. The country people can get to dance only once in every two or three months. They know nothing about the latest dances, yet if they want to arrange a party and dance to radio music they have to put up with jazz, with perhaps two waltzes during the evening. Is it fair to the country people? If they knew that one Saturday night was going to be old-time dance music look what fun they would have. One night not long ago I tuned in to 3LO, Mc Bourne, and apparently they had advertised this night for old-time dance music, and the announcer said

Mezzo-soprano solos—Miss Millicent Jennings, (a) "O Lord, Have Mercy" (Stradella); (b) "Coming Home Along" (Brahe).
Tenor solos—Mr. W. J. Trewern, (a) "Prelude—Cycle of Life" (Landon Ronald); (b) "Spirit so Fair" (Donizetti).
Organ solo—Reginald Goss-Custard, "The Answer" (Wolstenholme) (H.M.V. Record B415).

8.15: (approx.)—Rebroadcast of 2YA, Wellington. (Relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band, under the conductorship of Mr. E. Franklin.)
Close down.

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

5.0 : Town Hall chimes.
5.1 : 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 Methodist Central Mission:
Preacher: Rev. G. B. Hinton.
Organist: Mr. C. A. Martin.
8.5 (approx.): Relay from His Majesty's Theatre of concert by the St. Kilda Band, under the conductorship of Mr. James Dixon.
9.15 : Close down.

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that they had received letters from twenty different country clubs saying that they were going to hold a radio dance on that night. Between the dances he was calling up the different clubs, and using some of his wit. Surely 2YA could set aside one night like that. I am sure the town people wouldn't mind giving way to the country people for one night. In conclusion, I wish to congratulate the B.C. on the splendid services they are rendering.—C.G.R. (Tasman).

Weather Reports of Value.

I AM very pleased that you give out the weather report at 7 p.m. and also at 9 p.m. I think it would be well to give full details from all the stations at 9 o'clock the same as at 7 o'clock, as often we are not finished work to hear the report at 7 p.m. It is the weather that concerns most country people, as they all have to work out in it and have stock to look after. Especially in winter time the weather report is very valuable to runholders and farmers. Getting the weather report early means often the saving of thousands of sheep.—D.McN. (Gars-ton).

Bad Rebroadcasts.

I THINK the YA stations should use a little more discretion before putting on some of their rebroadcasts when conditions are bad. 3YA's rebroadcast of 4QG on Wednesday evening was an absolute farce. All we got was fifteen minutes of cat calls, squeaks, static, and other noises with an occasional word. As to following what was said, that was an impossibility. The conditions were very bad as I tried 4QG direct and could make very little sense of it, and that was clearer than 3YA's attempt. Another thing, 3YA ought to boast of a better receiving set than the one they have got, that has to be kept on the verge of oscillation to pick up a distant station. I am not against good rebroadcasts, only those that give us noise and no sense. The programmes are splendid and the dinner session is what we wanted and is perfect. Could not the company see its way to put a dinner session on at 3YA or 1YA on Wednesday nights (2YA's silent night), as we miss it badly that night. —A.R.G. (Purua).

Race News.

IN last week's "Record" I find an article suggesting the possibility of the R.B.C. discontinuing the broadcast of racing results from near the courses. I take it that this is more or less an official tip that this will come to pass. In my opinion it would be a very great mistake to take this step. There is no doubt whatever that a great many people are interested in these broadcasts and, as a seller of radio, I can say of my own knowledge that to cease this service would cost the R.B.C. many fees. I would suggest that, instead of lessening this service, the company should improve it by resuming their late running descriptions, in view of the fact that it is no longer necessary for the R.B.C. to consider the very touchy feelings of the Racing Conference. I could personally take your representative to quite a number of people who would buy sets (and pay their 30s.) if running descriptions were resumed, but who will not buy at all if racing is not included in the programmes. Even if the present limited service is continued it would be better than nothing, but I

cannot for the life of me see why the R.B.C. and the listening public should be dictated to by that august body, the Racing Conference.—Gordon C. Moses (Whangarei).

Radio in a Bush Home.

I WISH to express my appreciation, and the appreciation of our family, of the service rendered by the Broadcasting Company. We have no faults to find whatever, and have followed with interest and approval its progress and improvements for two and a half years. I am unable to express just what radio means to us in our little bush home. It provides our news, our instructor on many interesting topics, and it is our sporting and musical entertainer. We regard the announcers as our friends and appreciate their different personalities. We do not mind how many o-o's Mr. Clive Drummond uses in his G-o-o-o-d night! and would like to hear Mr. Ball say "Good night all Radio Land, good night," a little more often, and why did he stop his weekly chats on international affairs? Wishing you continued success. —"Outback."

Empire Television

MR. W. M. HUGHES, the former Premier of Australia, has just published a book, "The Splendid Adventure." The author sums up the importance to the outposts of our Empire of rapid communication, and his words reveal the fact that he is by no means unacquainted with the vast possibilities of television. The passage in question reads as follows:—

"Wireless is to the people of the Empire a veritable gift from the gods, and daily new and wonderful developments are manifested; broadcasting and direct beam wireless, telegraphy, and telephony, which in a very short period will be operating between Britain and the Dominions, and later television will bring the peoples of a world Empire as intimately together as the inhabitants of Britain itself were twenty years ago."

Children's Sessions

(Continued from page 15.)

WEDNESDAY:

Uncle Frank and his young helpers amusing you to-night, as Mother Hubbard is away holiday-making. But we will strive to make you all happy.

THURSDAY:

Uncle John, with Cousins Desmond and Nina in good form to-night. And this is the night that a new young Cousin tells you some stories.

FRIDAY:

Storyman, at the helm with a crew of jolly singers and reciters, Rea, Yvonne and John.

SATURDAY:

Ho! Ho! and a cheer for Chuckle, who is to the fore to-night with new songs for old. Will Aunt Pat sell them, do you think? Listen in and hear!

SUNDAY:

Our song service, conducted by the Church of Christ Sunday School.

"Hello, Mum"

From Sydney to London

A FEW days ago a boy lay dying in a Sydney hospital; he had been injured in a fall, and his condition seemed hopeless. "Mother, mother!" he kept uttering, each time weaker and more desponding, but no mother came—she was in England, and it seemed as though he must sink without seeing her. To the doctors it was evident that his very life rested on seeing or hearing his mother—there was one possibility, radio, and the decision was made.

JACK SIGRIST was keyed to a pitch of excitement that was fraying his nerves. Anxiously he watched the electricians installing the apparatus near his bed, and it seemed years to him before it was ready. At last the microphone was slung over the top of his bed. Jack regarded it with doubt in his eye. "I just can't believe that if I talk into this thing mother will hear me," he remarked to an electrician. The suspense was telling on the boy; he smoked cigarette after cigarette. Appealingly he gazed at the microphone. At his bedside the wireless man was connecting and disconnecting, testing, and retesting. "Hello, London!"

The boy sat bolt upright in his bed, pain forgotten.

"Hello, Mrs. Sigrist, just a moment."

Almost before the last syllable was out of his mouth, the boy was speaking.

"Hello, mum!"

His voice rang through the ward; an elderly woman visiting her son at the other end of the ward, wept.

"Yes, mum, I'm getting on fine—no, no pain."

The boy was smiling happily now, and the other patients craned their necks forward.

AT the other end of the wire a joyous mother spoke commonplaces to her son, who answered her from a distance of more than 12,000 miles. Her voice faded slightly; panic in his eyes, the boy looked up at the wireless man.

"That noise will go soon, sonny," he said reassuringly.

"Hello, mum! Yes, I can hear you. I'll soon be out of here. I'm coming home passenger. I'm sitting up now, mum. There's no need to worry about anything. There's lots of people come in to see me."

"And, listen, mum, I've got the best doctor in Sydney looking after me. How's Marjorie? Give her my love, too."

"I'll write soon," he promised. "My arm is out of splints, and I'll soon be able to write."

"How's everything at home? Good."

"The Guardian' has taken some photos of me—I'll send you some. What's that? They are taking photos of you, too. Will you send me some?"

"What's that, you've got to go now? Good-bye, don't worry. My leg's all right."

He took off the headphones. Twenty minutes had passed.

"Wonderful! I heard as plainly as anything," he said. Then glancing apologetically at the nurses. "I had to tell mum lies about my poor old leg, otherwise she would have worried."

"Of course you had, sonny," they chorused.

No Conflict

Statement on Sunday Services

QUESTIONED on the possibility of the New Zealand Broadcasting concerts on Sunday evenings, simultaneously, with the transmission of the church service, in the same way as is now done in Australia under the new regime, Mr. A. R. Harris, general manager of the Radio Broadcasting Company of New Zealand, Limited, stated that in no circumstances would the Company consider such a proposal, or in any way trespass on the recognised evening hour with other than the broadcasting of church services, so long as such were available or could be made available.

A Radio "Faux Pas"

IN a recent American programme the announcer stopped the item in order to announce the death of a man, prominent in public affairs. Having done so, he mentioned that Mr. So and So was on the way to visit the sick man, but arrived too late. He then added without a pause, "The next will be, 'The Wind Blew Through His Whiskers Just the Same.'"

Exhausted, he lay back, tired, but smiling. Quickly the wireless men removed their gear and congratulated the lad. The screen was drawn around Jack Sigrist's bed, a screen of content, for inside a boy dreamt of England, his home, and his mother.

Helping the Estate

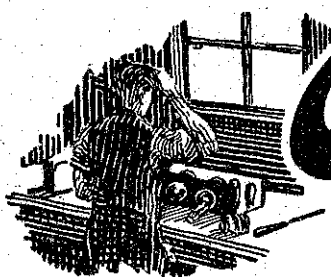
A Testator appointing the Public Trustee his Executor may also desire to have his family solicitor, a public accountant, an intimate friend, or some other person in whose judgment he has confidence, associated with the Public Trustee in the administration of his estate.

This may be done by the appointment of an Advisory Trustee or Trustees to co-operate with the Public Trustee in the management of the testator's estate.

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Questions and Answers



A Variable Grid Leak.

"GRID LEAK" (Blenheim) asks whether resistance is low or high when the pellets of a variable grid leak are compressed.

A.: The least resistance is obtained with the pellets compressed, in other words, with the compressor screwed right in.

Defective Cone Speaker.

I AM using a horn speaker, but have a cone speaker. When the horn speaker is tuned to the utmost volume, and then replaced with cone type, it is hardly audible—why?—"Cone," Auckland.

A.: If horn is good, we fear a defect in the speaker. Have it examined by an expert.

Speaker Connections.

I HAVE an A.C. six-valve set. Does it matter which way the speaker cords are connected to the set terminals?

There is no indication on the set, although one of the speaker, asks Query (Te Awamutu).

A.: If there is an output-filter—no. To make certain, screw the diaphragm to rattling pitch, and reverse connections. If music becomes smooth, replace connections as they were previously. On the other hand, if reception becomes worse or disappears, leave terminals as they are now, and readjust. If there is no difference it is immaterial, as this indicates an output filter.

Ground Wire.

WHAT is the best ground wire, writes A.E.B. (Auckland). I have my earth wire on to a water pipe, which runs under the house, about 40ft. before reaching the ground.

A.: The heavy single-stranded wire, 12 or 14-gauge single copper, or 7/020

stranded, are suitable. You are wise in sinking a new earth, 40ft. is too far for the earth to run before entering the ground.

Life of Dry Batteries.

HOW long should a 4-volt 30 amp. battery last with three valves, the filament consumption of each being .06 amps?—"A.B.B." (Nelson).

A.: Does the correspondent mean a 4-volt accumulator? If so, it should be recharged after about 60 hours' use. If dry batteries, they should last approximately 100-150 hours, depending on the time used without an interval. The correspondent encloses a sketch of a series parallel arrangement which is correct, but the order of the batteries should be changed round to allow of an even drain.

Set will not Oscillate.

"R.H.R." (Wellington South) cannot get his three-valve screen grid set to oscillate.

A.: Add a few turns to the reaction coil, and if this will not bring about the desired result, increase the detector voltage. The set should oscillate quite readily for it is the adaptation of a well-known kit set.

Transformer Error.

IN constructing the power transformer described in the "Radio Listeners' Guide," "R.H.H." (Lower Hutt) brought out the taps of the side of the bobbin which will eventually be covered by the laminations. He asks if he might alter the width of these to 1½ inches and turn them round.

A.: This alteration is quite permissible.

Selection of a "B" Eliminator.

WHAT do you advise as a battery eliminator for a crystal set with a 2-valve amplifier? Do you think this would be preferable to a 3-valve all-electric receiver? I am quite satisfied with the local station, asks "W.G.S." (Miramar).

A.: The correspondent has this to keep in mind: Although he may be satisfied with the local station, the chances are he will want to reach out to other stations before very long. A three-valve all-electric receiver, while being an excellent proposition for the local station, is, except in certain cases, not well adapted to bring in outside stations. If an eliminator of a good make is purchased the correspondent will be able, at a later date, to increase the number of valves in his set without going to any further expense as far as the "B" supply is concerned. If, at a future date, he wishes to electrify his set, he may do so by either utilising the A.C. filament windings on his present eliminator, or by the provision of an extra low voltage transformer. An eliminator for this purpose should have windings to at least 180 volts with grid bias. The construction of an eliminator is not a difficult problem, especially as the transformers with A.C. windings may be readily procured for a very small sum. This, to us, seems the best plan for the correspondent to follow.

Loudspeaker Connection.

I FIND that by connecting my loudspeaker the wrong way, that is, the negative terminal to the positive of the speaker, I get a distinctly louder and clearer tone. Am I doing harm?

A.: It is possible that the connections have been reversed within the speaker. Tighten the diaphragm if it is adjustable until at the rattling point. Now reverse the connections. If the signals become further distorted or further disappear this indicates that the connections are now correct, and the diaphragm should be loosened until the music becomes clear again. If, on the other hand, the signals become clearer the connections are now wrong and should be reversed, the diaphragm being loosened. This will indicate whether the markings on the terminals are correct or not. If the speaker is non-adjustable it will be safe to assume that they have been wrongly labelled; that is, leave them connected to the set so as to get the best results.

Short-wave Adaptor.

"A.H.P." (Hastings) submits a diagram of an adaptor which he cannot get to work. It incorporates a one m.f.d. condenser between the plate of the valve and "A plus." This is the source of the trouble, as it is by-passing the signals. Remove it, and everything should be O.K.

A Question of Resistance.

"RADIO" (Hastings) states that the reading across his accumulator reads the same as that across his valve irrespective of the position of the rheostat. He asks if this is correct.

A.: A rheostat will break down voltage only when a certain amount of current is being taken from the source. This means that a load of definite value has to be placed in the circuit. Has the correspondent measured the voltage with the valve withdrawn? To measure the voltage on the valve a voltmeter should be put across the terminals of the valve base, while the valve is in operation.

2. If my aerial is increased should I make any alterations in the coupling coil?

A.: Alterations are unnecessary, unless it is to tighten the coupling slightly.

Trouble with the 2-R.F. Browning-Drake.

"T.H.W." (Hauraki Plains) cannot neutralise the 2-R.F. Browning-Drake. He is consequently getting shrill whistles and finds difficulty in tuning stations in. The tickler has no effect on the volume.

A.: Incorporate 1mfd. by-pass condensers between "B" + R.F. and earth. This will no doubt solve the trouble.

"A.C. Reflex."

"L.B." (Auckland) wishes to construct a reflex to work from the A.C. Mains.

A.: Reflex sets are unsatisfactory. The correspondent should utilise his half-wave rectifier and A.C. filament windings to make a straight-out 2-valve amplifier, using the 227 valve as first audio, but see our special A.C. number, September 20.

Battery Charger Problem.

"A.G.C." (Te Aroha) has made the battery charger described in the "Listeners' Guide," but finds his rectifying valve lights a brilliant green instead of the usual blue glow.

A.: Disconnect the filament, and it will be found that charging will still take

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V13

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Mullard
THE MASTER VALVE

The New Mullard A.C. Valves will fit any American Electric Set and improve the results.

place, if the connections other than the filament are correct. Now reduce the number of turns by, say, three, and note the result.

Double Grid Valves.

WILL a double grid valve be suitable for the crystal and valve with 3-valve performance, writes "E.T.D." (Petone). If so, will it be equal to an ordinary H.F. valve with 90 volts on the plate?

A.: Use "A441" and results should be found to equal that of the ordinary valve of 90 volts on the plate for a one-valve amplifier.

2. The set refuses to oscillate.

A.: Put more turns on the reaction coil.

3. I am now using a short aerial. What difference will it make to the coils?—None.

Interference from Generator.

"G.R." (Takaka) complains that his generator, driven by a Pelton wheel, causes interference with his wire-

less receiver. He asks how this may be overcome.

A.: This eliminator will supply 30 milliamps. at 150 volts. This would not be sufficient for two 171A's in push pull. Try the new "B405's" in push pull.

2. Do two power valves in p.p. take exactly twice as much plate current as one?

A.: Yes, unless they are double biased, in which case they take the amount of one.

S.G. Browning-Drake.

"SELECTIVITY" (Kelburn) has constructed a 5-valve screen grid Browning-Drake, but cannot neutralise it correctly. He states that the set is not shielded, and complains that selectivity is poor. He adds that a good number of stations were logged while the valves were new, but now he has noticed a background of noise, and cannot get the same number of stations.

A.: There are a number of factors to be considered. A 5-valve set using the

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SEPTEMBER 20, 1929.

screen grid and reaction should be shielded, otherwise it is a hopeless task trying to make the set selective or neutralise it.

Introduce 1 mfd. by-pass condenser between B positive R.F. and earth. The shield grid valve is notoriously unselective, but a wave-trap should rectify this. The valves appear to have lost their emission; have them tested. This would account for the noise. The correspondent asks if the parallel feed B.D. would be more selective than the screen grid. It would if properly constructed.

The correspondent has appended a diagram with the following questions:

1. Are the coils standing at right-angles for the B.D.?

A.: Yes, though the diagram shows them arranged the neutrodyne style.

2. Are the valves in the right relative positions?

A.: No, it appears that the lay-out is altogether wrong. Follow the lay-out for the 2 R.F. Browning-Drake published in the "Listeners' Guide."

3. Is the tickler controlled by a condenser correct? So far as we can see—Yes.

Booster for the Browning-Drake.

I HAVE tried loose coupling for the aerial coil of the Browning-Drake without success, writes "J.S.K." (Ngaio). Signal strength is reduced too much. Would the parallel feed booster be better?—Yes.

Charging an "A" Battery.

CAN a 6-volt 80 to 100 amp-hours battery be charged from a 32 volt storage battery? asks "B.S." (Market Cross).

A.: A very heavy resistance would be necessary, involving a very big waste of current. Approximately 26 volts at 5 amps, if this were the charging rate, or 130 watts would have to be dissipated by the resistance. A resistance of these dimensions would be very difficult to obtain. In any case, the arrangement would be unsatisfactory unless the capacity of the 32 volt storage battery were greater than 100 amp-hours. If it were being charged while the "A" battery were being charged a workable compromise might be effected.

2. Could an eliminator be made to provide 180 volts at 40 to 50 milliamps from the 32 volt battery?

A.: No, for this reason. Voltage can be stepped up only by means of a step-up transformer. The principle of this is that if two coils are connected by their

magnetic fields only and an alternating or pulsating current fed into one of them, current will be induced up in the other at a voltage in direct proportion to the windings. This step-up can take place only with pulsating current. The induced current momentarily opposes to

RADIO DIRECTORY

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- AERIAL MASTS** Domestic Radio Co., Ltd.,
300 Queen Street, Auckland.
- ALTONA & HAMMARLUND-ROBERTS SETS.** Johns, Ltd.
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- ATWATER-KENT RADIO** .. Frank Wiseman, Ltd.
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Victoria St., Wellington.
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Worcester St., Christchurch.
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Short-Wave Adapter.
CAN an A.C. short-wave adapter be applied to a 7-valve all-electric receiver, writes "A.A." (Avondale).

A.: At this stage of radio evolution A.C. short-wave adapters have not come into general being. For the best results it will be necessary to use D.C. Such a D.C. adapter could quite well be used with an A.C. set.

Shortwave Problems.

"H.W.Y." (Herekino), asks the following questions:

1. Is it normal for both rheostats to work only when just open? Past this point a strong howl sets up.

A.: No, there is too much reaction. Remove a little wire from the tickler coil.

2. Why is it necessary, to keep the set oscillating, to have sometimes to reduce the coupling between the aerial and secondary coils?

A.: This is done to reduce the damping of the aerial, which varies frequently.

3. I connected a fixed condenser to a choke and incorporated this in the set, but found it would not oscillate.

A.: This was probably in parallel with the existing condenser, so that a very large capacity was introduced rendering regeneration impossible.

4. With both variable condensers all in I can turn the reaction coil full out and the only sound heard is the steady rushing sound? Is this normal?

A.: It appears as if in this position, the fixed vanes are touching the moving vanes, also try another grid leak.

Your other problems are being dealt with by the technician who designed the set.

Supply of a "B" Eliminator.

WOULD a Phillips "B" and "C" eliminator supply enough current to run a screen grid two 201's and two 171A's

the primary current, so that unless the primary current fluctuates rapidly the magnetic field in the secondary circuit will not operate after the first impulse.

Condensers for Short-wave.

HOW many plates are there in a .00015 condenser? asks L.R.S. (Nelson).

A.: Four fixed and three moving, but they vary with the different sizes of the plate.

Q.: Is it necessary to have the latest double spaced?—No.

Round the World Two.

CAN a .0005 condenser with another condenser used in series be applied to the Round the World Two? asks "K.K." (Auckland).

A.: The arrangement is not satisfactory, but a .0003 mfd. condenser connected in series would reduce the capacity from .0005 to .0002. The better plan would be to remove plates, making a total of 11.

Motor-Boating.

I HAVE recently changed over a different make of transformer, writes "N.D.B." (Patea), and find as a consequence motor-boating very pronounced. I have tried extra condensers but to no avail.

A.: Have you tried the simple expedient of reversing the leads to the primary? It seems as though the two makers have wound the transformers in the opposite directions, as is often the case. If this has been tried to no avail, place a variable resistance of a few hundred ohms in the B supply to the primary, and between this and the primary connect a by-pass condenser to earth.

Defective Transformer.

"ENQUIRER" (Wairoa) states that his machine will work well for a while and then signals will fade away.

A.: Try the transformers, as this is the source of a great deal of trouble with this receiver. A condenser may have broken down or a grid leak defective.

2.: Would any alteration be necessary to use 201A type of valves instead of 199's?

A.: The resistances would have to be altered. The 199 requires .06 of an amp., whereas the 201A requires 1 amp., hence the resistances would be burned out by the change over. In addition, the set would want reneutralising.

D.C. Generator.

IS there a small generator available to give, say, 350 volts at 100 milliamps, to feed two 245 type valves in push-pull? writes "W.D.S." (Urenui).

A.: So far as we know there is not one of these available in New Zealand. The M.P. generator is an English product that will do the job, but is not on our market. Try Johns Limited, Auckland, as they at different times have apparatus of this description on hand.

2.: Can an adapted megger be obtained in New Zealand?

A.: Not to our knowledge. It would need very great amount of filtering.

Short-wave Adaptor.

"M.C." (Eastbourne) wishes to convert a .0005 condenser into a .0001 and another condenser and a .00025 by detaching plates and opening these out double space.—This will be O.K.

2.: On plugging the short-wave adaptor into the detector socket of a five-valve neutrodyne, is it necessary to have the R.F. valves turned on?—No.

3.: To connect phones or speaker, do I plug in to the ordinary broadcast receiver jack or from the adaptor?

A.: Plug the speaker into the speaker terminals on the broadcast set, and the phones into the plate "B plus" terminals of the first audio valve.

Useful Jottings

IF you use an eliminator you should always switch this off when you switch the set off, and not rely on the on-off switch of the set to break both circuits.

INTERFERENCE between neighbouring sets is not generally troublesome unless an unnecessarily large amount of reaction is used.

IF your programme is interfered with by your neighbour when adjusting his set, be sure not to share a common earth with him, but get a different earth, as this often makes a great improvement in such cases.

New Zealand Radio Industry

Inside a Modern Factory

FEW people who see the finished radio set would realise the amount of careful and intricate work involved before the product is finally ready for marketing. Those who have worked and laboured in the construction of even a small wireless set would be amazed to see how the makers of the popular "Courier" Receivers reduce the many involved operations to simplicity.

First of all come the metal bases upon which all components are set up. The bases are already bent to the correct shape, and are then taken to the farthest bench to be pin-stamped ready for drilling and punching. Metal templates are used for this purpose to ensure absolute accuracy. Next comes the mounting of the various parts such as R.F. coils, transformers, sockets, etc.

By a special circuit arrangement the metal base is made act as a "return," thus simplifying wiring and obviating unnecessary joints. It is interesting to note in passing that there is only one "tapped" connection in the whole wiring system.

The drilled and assembled base is then passed over for initial wiring—all connections which ultimately go to "earth" are firmly soldered to the base. The semi-wired bases now proceed to the next bench, where they are completely wired up. The final wireman draws the requisite coil assembly from the coil bench and connects its temporarily to the receiver ready for test. All these tuning coils are hand-wound on a rotating jig, the wire passing through a wash-leather grip to ensure freedom of hand-moisture. Larger coils requiring many thousands of wire turns—low frequency chokes, etc.—are wound on a power-driven winder with a friction clutch and throw-out.

The wiring staff employed are taught to work not from theoretical diagrams but from plans which show the receiver-base upside down, with vari-coloured lines joining passing over or entering the appropriate hole. This method overcomes wiring errors and makes for greater wiring speed. Nevertheless, each wireman is required to have a thorough knowledge of the circuit he is working on so that he can be always alive to possible sources of future trouble.

After wiring, the nearly-finished receiver is put through a series of searching tests. The valves are then plugged in and the receiver subjected to a thorough checking and examination whilst actually "on the air." A local modulated oscillator, completely screened and accurately calibrated, is used for checking up the tuning circuits and general continuity, while a meter board is brought into use for testing leakage or high-resistance "shorts," etc.

Valve currents are carefully considered and made to compare with a standard before being passed. A special arrangement of an electric gramophone pick-up and lower-power oscillator is then switched on and the receiver under test tuned to this apparatus thus

picking up the modulated wave as a high-frequency "broadcast" signal. This method can be used very successfully in checking sensitivity, selectivity, tone and volume, etc.

Altogether the testing arrangements are comprehensive and rigorous and probably call for the most specialised knowledge of all. As the engineer in charge said: "Anyone can wire a receiver, but not one man in a 100 can test it as it should be tested."

After final test and pass-out the skeleton receiver is passed over to another man who installs it in its appropriate cabinet and makes everything secure. It then goes on to yet another member, who again subjects it to the same series of tests as applied previously, thus giving each receiver at least a dual test. The final tester calibrates the tuning chart accompanying each receiver by means of the modulated oscillator-wavemeter.

All coils, grid leaks, resistances, condensers, and transformers are separately examined and tested before being put into use—coils and tuning condensers particularly. Everything that could possibly be made here in New Zealand the "Courier" factory constructs so that as large a measure of independence as possible may be attained.

The ingenious and effective coil-assembly calls for particular comment. As everyone knows, the "Courier" engineers patented and used a combined high and low wave receiver. They said "a flick of the switch" eighteen months ago and now manufacturers of America and Great Britain are following the lead. The "high-low" coil mount proved to be of great interest and was a model of neatness and rigidity. The whole unit is backed on to a small bakelite panel and is fully wired quite separately from the receiver. To bring the complete assembly into use it is thrust through an oblong aperture in the cabinet back, screwed home and wired on to the receiver.

The interesting feature is that the complete unit is joined to the receiver by only two wires. This means that the whole complicated tuning systems for both sets of waves can be brought into service by merely connecting two small leads—a great advantage in use and assembly. This "unit" process can be followed out in all the processes leading to the finished receiver. The engineer in charge has obviously devoted much time and thought to his policy, and has certainly succeeded in reducing the whole rather complicated process to a series of simple operations each fitting one into the other like a jig-saw puzzle.

A Price Error

IN the advertisement for Mullard Kit Sets appearing in last week's "Radio Record" the price was overstated—£8 10s. should read £8 unassembled. Intending purchasers of this excellent little set will note with pleasure the correct price.

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The "GORDONPHONE", used in conjunction with your Radio Set, will give you an improved electric gramophone. It consists of ELECTRIC MOTOR, PICKUP and VOLUME CONTROL all neatly mounted in a beautiful Seal grain, leather finished, portable case.

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Short-Wave

(Continued from page 32.)

PCJ commenced at 5.34 a.m. with a band item. Volume was R8-9 all through.

GBX and 2ME were R8 and R9 respectively, both 100 per cent. readable.

KZRM on 31.4 metres were R9, with gramophone records, from about 9.30 p.m. Music was heard on about 23.3 metres at R.3.—F. W. Sellens (Westland).

KZRM, Manila.

AFTER having missed KZRM, Manila, Philippines, for about a week, I again picked him up to-night at 8.30 p.m. This time he was transmitting on 31 metres. Previous to this have heard him on 24.5 and 49 metres.

On Sunday, August 18, I heard 7LO, Nairobi, Kenya, at 7 a.m. He was not as good as when I heard him a week before.—A. R. Cranston (Auckland).

Topical Notes

THE main feature in short-wave work lately has been the tests between 2ME and London. The recent test when 2ME and GBX (London) were heard simultaneously on 'phone, stands out as the most important of the tests so far.

Last night, August 22, 2ME was, as is almost a daily practice now, testing with London, and whilst 2ME stated that the signals faded out occasionally, on tuning in London direct the signals were fairly strong, a lady being heard reading. Although speech was somewhat distorted, volume from London was fair.

The Russian short-wave station has been coming over at exceptional volume lately, last night being the best for some time, notwithstanding bad static on the 80 metre band. The power of the Russian station was sufficient to penetrate and outweigh the static problem. Speech was clear. 2ME complained last night of bad static, yet when listening to 2ME reception was not noticeably affected here in Wellington.

A change of three valves, and a new type of aerial wire, fresh soldering of the earth to water pipe, and a general tightening up of aerial have improved reception considerably. After three odd years of work, the original radio frequency valves on my set were found to be in good condition, and are working at 100 per cent. efficiency, and still look good for another three years' work; the Japs coming in on loud-speaker at considerable strength.

4YA (Dunedin) has been received at good volume, whilst 2YA has been working, and the same applies to 2FC (Sydney).

The Boys' High School, Riccarton, Christchurch (3BE) was on 'phone 80 metre band for the first time this week, four of the (B) Ham's in Canterbury being heard one evening, including Scargill. Did anyone else in the North Island hear 3BE? The boys down at Riccarton are evidently very keen concerning their wireless.

2BE (Hastings), under the captaincy of friend James, has been very active lately, and comes over at tremendous volume, and generally steady, with pure tone. 2AX (Palmerston North) has also been heard at good strength, and clear. 2AW (Wellington) is on the job again with his genial company. Others include Otaki, Wanganui, Auckland districts.—R. Leslie Jones.

FAULTY switches in the house lighting circuit will give rise to clicks and noises in the loudspeaker, owing to sparking occurring across the defective points.

DX Notes

KMOX On Endurance Flight.

MR. L. B. Lewis (Gisborne) writes: In the DX Notes of your issue of August 10, you have an American to identify for "Hastings," and received his call-sign to be Station KMOX, St. Louis, U.S.A. On Monday, July 27, I logged this station at 10.15 p.m., but did not get his call-sign, although the musical items were very clear, as were the announcements regarding the St. Louis Robin endurance flight. I experienced the same trouble as "Hastings"—fading, with strong crashes of static thrown in.

On Tuesday, July 28, I received him with better success as regards static and fading. Announcements were still being made in regard to the St. Louis Robin flight, and the announcer stated that contrary to rumours, the plane was still in the air. The musical items were extremely clear, and he was coming in at R7 to R8. He announced his call-sign quite frequently, as stated above. The speaker used was one of the heavy cone type.

(Other readers have also identified this station as KMOX.—Ed.)

Nelson Notes

Amateur Radio Club

ON Monday evening the Nelson Amateur Radio Club held its first meeting (since the big shake on June 17). The club was formed before this date, but the earthquakes disorganised things, and it is only now that the club has been put on a good basis.

The president (Mr. C. Page) briefly outlined the aims of the club. He stated that as the programmes of the Radio Broadcasting Company are now of so high a standard, they could confine their activities to educating listeners in the operation of sets and in the control of howling valves. Also in advising young constructors in the choice of parts and circuits, thus preventing costly mistakes, which had been the too-frequent experience of some.

The secretary (Mr. G. C. Coleman) gave a brief description of the numerous aeriels he had tried, and their various efficiency. The reminder of the evening was spent in the demonstrating of different kinds of speakers, ranging from a dynamic cone to a "baby," used with a gramophone pick-up and amplifier.

Given favourable conditions and no more earthquakes, the club promises to become a rival (in a small way) to the flourishing Hastings society, and in the distant future Nelson might be relaying a concert through 2YA!

Programme Exchange

THERE is soon to be an exchange of programmes between Europe and America. This will be placed within the bounds of possibility by a cable, the first of its kind, manufactured out of a new metal thread called "Perminvar." The cost of such a cable will cost over two million pounds, but this new preparation considerably lessens the cost.

2ZD, Masterton

A Good Soldering Flux

SINCE August 8 Station 2ZD has been operating in Masterton, the hours of transmission being Monday, Wednesday and Saturday, 12 noon to 2 p.m.; Tuesday, Thursday and Saturday, 7 p.m. to 9 p.m. This station operates on a wavelength of 254.1 metres, with a power of 8 watts. The aerial is 180 feet long, and uses an earth return. The station is serving a good proportion of listeners in its particular district, and the midday session in particular seems to be much appreciated by those concerned. Reports from Taranaki, Waikato, and other country districts show that daylight reception is good.

The whole of the transmitter, with the exception of meters, etc., was assembled in the workshop of the owner and operator, Mr. W. D. Ansell. Mr. Ansell is a well-known enthusiast in radio, and adds to his other activities that of Official Listener to the Radio Broadcasting Company.

By Request

THE following conversation between a listener and an official at 2YA is rumoured to have taken place:—

Listener: "Is that 2YA?"

Official: "Yes."

Listener: "Do you ever play anything by request?"

Official (cautiously): "Yes, sometimes."

Listener, in tired voice: "Then I wish you would go and play a game of chess while I get some sleep."

MANY amateurs who live out of the convenient range of shops which sell soldering fluxes got up in handy tins are often puzzled to know the best type of flux to use, and also how to make such a commodity at home.

For ordinary radio constructional purposes, there is no doubt that one of the best soldering fluxes is one which contains the following ingredients:—

Tallow 50 parts
Resin (powdered finely)..... 40 "
Sal-ammoniac 25 "
Olive oil 5-10 "

Gently heat the tallow and the olive oil in an old tin container, and, when fluid, add gradually the remaining ingredients, which must be in a powdered condition. Do not overheat the mixture, for too high a temperature would cause the tallow to become rancid, but stir it continually with a stick until all the ingredients of the flux have become intimately mixed together. Then remove the source of heat, but continue stirring the mixture until it solidifies.

The flux will now be ready for use, and it will keep indefinitely when stored in shallow tins in the usual way. Do not use too much of it when making a soldered joint. A mere trace of it will be all that is necessary.

IF an amplifier is to be used with a valve set and its internal connections cannot be checked for any reason, its B negative terminal should not be joined up at all (generally this is not necessary).

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Polish Stations.

LISTENERS on the short waves who may have picked up the Polish programmes in which the ticking of a metronome (about 240 strokes to the minute) was heard between items, will be interested to learn that the broadcasts emanate from the new Posen transmitter on 30 metres. The power at present is only 30 watts in the aerial, but this is shortly to be increased to something much more substantial. The tests are carried out between 11 p.m. and midnight, B.S.T., on Mondays and Tuesdays (9.30 a.m. till 10.30 a.m. Tuesdays and Wednesdays, New Zealand time). Announcements by both male and female speakers are made in Polish, German, French and Italian; the bulk of the transmission consists of gramophone records.

Solving a Puzzle.

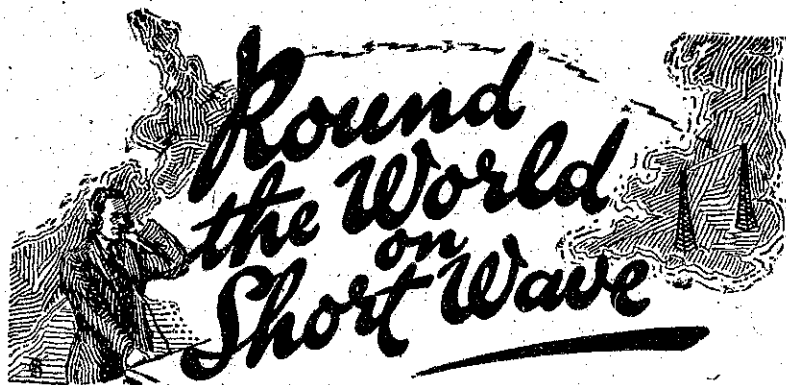
AN Australian short-wave station, in reference to interference with G5SW, says: "We had the opportunity of solving the puzzle of that peculiar rumble in 5SW which has been apparent for some weeks past, when a commercial station, which, from the call sign, appears to be a French station, was working just below the wavelength of 5SW. It appears that the rumble was possibly the unmodulated carrier of the French station which has been moved just below. The transmission of the French station consisted of the testing signal interspersed with the call sign.

KZRM Manila, Philippine Islands, has changed its wavelength to about 31.4 metres, exactly where PCJ and W2XAF are to be found. This station has been heard several times on the new wavelength since writing last week's notes. Strength as a rule is very good, up to full loudspeaker volume at times.

Another station, a German, has been heard each morning during the past week. This one has been reported before, but has not been heard regularly. The German commences each morning at 6.30 a.m., as a rule with "Achtung," followed by a few more words in the same language, and then orchestral music. One morning a clock was heard to chime and strike the hour of eight before the familiar "Achtung" was heard. This interesting stranger works on about 31.5 metres—just a fraction above PCJ, 2XAF, and KZRM. Volume and modulation are all that can be desired. I do not know how late they carry on, but they are always going strong at 8 a.m., when I have to close down.

GBX, England, and VK2ME, Sydney, can be heard almost every morning and evening, carrying out duplex telephony tests. I often receive the English station better than the Australian during the early morning test.

RFM is not heard so often now, but comes in at good volume—with plenty of talk, as usual, when on the air.



My log for the week shows the following:—

Saturday, August 17.

THE 31.5-metre German was heard with some talk just before 6.30 a.m. Some orchestral music was heard later at R8-9. There was a slight ripple, but not enough to spoil reception. No call sign heard.

PCJ was R8 from tuning in at 6.20 a.m. till signing off at about 7.30 a.m. There was a slight rapid fade, otherwise reception was excellent.

5SW was very unsteady at R8. Not good enough to listen to.

W5XN: The carrier only was audible from this Californian station at 6.30 a.m.

PCJ was R5 at 2.30 p.m., increasing to R9 by 4.30 p.m., remaining at that till 5 p.m., when volume decreased again. The special New Zealand-Australian programme commenced at 3.45 p.m., and continued till the station closed down at 5.35 p.m. Static and slight fading were troublesome early, but this cleared up for our special transmission.

KDKA was R3 at 1.30 p.m., with rapid fade. The "Slumber Hour," from 2.30 p.m., was better at R8.

W2XAD was very good, the last hour being devoted to dance music from Reilly's Lake House Hotel. Morse QRM at times necessitates a quick "get-away" from this station.

RFM during the evening was R9, with what appeared to be a debate between a man and woman. Static was very bad.

Sunday, August 18.

W2XAD and W2XAF transmitted the General Electric programme till 1.30 p.m. Lucky Strike Hour till 2.30 p.m., and from then till 3.30 p.m. dance music was heard from the Crystal Room, De Witzler Hotel, Albany, N.Y., signing off at 15 seconds past midnight, E.D.S.T. (15 seconds past 3.30 p.m. here).

Reception was good from both stations, 2XAD for the earlier part and 2XAF

later. The former station was much the clearest, as it always is.

KDKA was good volume, but rough. This harshness was not so noticeable later on when the Byrd Expedition programme and messages were being transmitted.

After the special programme for Little America a test was carried out on 25.4 metres (KDKA'S shortwave) with WFA, a shortwave station at Little America. This consisted of a long series of dots on a 1000-cycle note. The radio expert of WFA has an instrument to measure the intensity of signals received, also the echo received back from the "Heaviside Layer."

A message from WFA was re-broadcast by KDKA at 5 p.m.

Before signing off at 5.10 p.m., it was announced that the next special Byrd programme would be on Saturday, August 31 (Sunday, September 1 here).

A peculiar effect was noticed concerning the above transmission. What at first appeared to be another station on about 31.5 metres, proved to be KDKA which was working on 25.4 metres. This I took to be a harmonic of another transmitter of KDKA on a higher wavelength—about 62 metres. Later, when the special test with WFA, consisting of the series of dots, was being carried out, there were also heard on this wavelength—about 31.5 metres. It was distinctly stated that the test was on 25.4 metres. Can anybody solve this? The only explanation I can think of is, that the 62-metre station was going, and it was a harmonic that was heard of this.

On about 17 metres at 7.45 p.m., what sounded like a description of a fight in a foreign language was heard at about R2-3. Cheers could be heard during the talk.

Monday, August 19.

A 31.5 metre German commences at 6.30 a.m. with "Achtung," and the word "orchestra" several times. Orchestral items at R8 were received with excellent modulation. The "Toreador" song from "Carmen" at 7.30 a.m. was well received. All the records were high-class music.

On about 22.5 metres at 10 p.m. a very excited foreigner was talking with a crowd yelling in the background. This was received at R8. The talk may have been Japanese; it sounded like this.

20.5 metres about at 11 p.m., duplex telephony was heard.

5SW at 11 p.m. was just audible. ZLZE and ZL2AW were both R9 at 10.20 p.m.

Tuesday, August 20.

AT 6.20 a.m. 5SW was quite good, with an organ recital received at R8-9. The quality was not so good later.

The German (31.5) commenced at 6.30 a.m. with "Achtung," etc. This was followed by "We begin our concert—" (name of item not caught) in very good English. This is the only English announcement I have heard from this station. "The Volga Boatman" was the first item. Volume R8, modulation perfect.

GBX and 2ME were testing on duplex telephony, both R8-9, and 100 per cent. readable.

Wednesday, August 21.

TALK in progress from 5SW at 6.10 a.m. in reference to farming in Aus-

tralia for English boys. The speaker was speaking from personal experience of conditions in Queensland. Strength R7, about 75 per cent. readable. "The Blue Danube" was the first musical item to follow the above talk.

2ME and GBX were only R6 this morning, not so good as usual.

W6XN was just audible.

31.5 German with an orchestral programme was perfect at R8-9 from 6.22 a.m., when first "Achtung" was heard.

W6XN (KGO) was tuned in just in time to hear the concluding remarks about music from a radio exhibition which had just been relayed. From 6.30 till 7.30 p.m., the "Musical Musketeers" entertained with dance music. Before closing they gave the latest news of the Graf Zeppelin touring the world. Reception was quite good at R8. 2ME, R8, 100 per cent. readable, and GBX, R5, very poor, were testing duplex.

KZRM on about 31.4 metres were picked up at 10.35 p.m. at R7. Stock and market reports were being relayed. Static was very bad.

Thursday, August 22.

5SW at 6.20 a.m., a play was being broadcast, 50 per cent. readable at R7. Whistling solos with piano accompaniment were quite good just after 6.30 a.m. Strength improved later to R8.

GBX and 2ME were again testing duplex; both R7, static spoiling reception. These stations during the early evening were: GBX, R5; and 2ME, R9.

31.5 metre German was again excellent at R8, with orchestral selections.

KZRM was tuned in at 9.30 p.m., when a programme of gramophone records was broadcast, the names being given both before and after the items. KZRM, Radio, Manila, was the call given. A talk in foreign language was given at 10.20 p.m.

Later, news items and programme announcements were given.

Volume R8-9; excellent reception except for static, which was bad.

Friday, August 23.

BIG BEN from 5SW was weak. Talk was not readable. Reception at 6.30 was much better at R7, but became unsteady again later.

GBX at R5 was 100 per cent. readable, while 2ME could not be heard. Records from the English station just before 8 a.m. were much better than music from 5SW at the same time. The German, as usual, was very good at R8. A woman and man were heard at 7 a.m. for a time. The "Blue Danube" played on a piano at 7.50 a.m. was received splendidly.

(Concluded on page 31.)

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