

THE RADIO RECORD

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Noises and Their Elimination

A Useful Summary of Interference Problem from the point of view of City and Country Dwellers



STATIC is often blamed for many rasping roars of which it is not the cause; conversely it is not blamed when it should be—trouble-tracking vans can well testify to this. Diagnosing the why and wherefore of interference is not the easiest for the inexperienced listener, but for the old hand who cannot be misled by "Old man Static" this is not a difficult task. Noises may be roughly classified into two groups: noises having their origin within the set, and those occurring without it. When the listener is troubled with bad interference there is a definite procedure that he can follow in order to locate its source.

Disconnect both aerial and ground, and connect the binding posts with a piece of bare wire. If this eliminates the noise, it can be taken for granted that it is originating from power lines, motors, telephone circuits, or electrical apparatus of any description within or without the home.

If the noise still persists, look first to the batteries. The "B's" and "C's" develop a crackling noise when the cells are becoming exhausted, while a badly sulphated and old wet battery develops a crackling noise which can be detected by placing a pair of terminals of headphones across them. A normal battery should produce no sound in the phones. "B" batteries that have dropped 20 per cent. of their voltage should be discarded. If the "A" battery crackles, and continues to do so after having been charged, consult a battery expert. If all the voltages are correct, see that all terminals are clean and tight. Acid creepage from wet batteries does a great deal of damage. A coating of vaseline will keep corrosion down to a very bare minimum.

Corrosion is a noise producer in two ways: 1. It makes for a defective connection; 2. It is quite likely to eat through the insulation of battery cables and eventually produce a break in the wire.

Where "B" eliminators are used, the trouble is more difficult to track. If a set of good "B" batteries can be borrowed and substituted, the eliminator can be readily tested. Eliminator outputs cannot be measured by ordinary meters, as the output is so small that most of it is consumed by the meter. A high resistance meter is, however, quite suitable for the job. Wavering of the needle of the meter would tend to show repairs were needed.

If the batteries or eliminators are in good order, go through their connection with the set, looking for loose terminals, corrosion and broken wires.

If all is well so far, look for a defective valve. The easiest method is by substitution. For this test, it is best to reconnect the aerial and the ground, which will indicate the difference in volume level as well as in noise level. Sockets occasionally cause trouble through corroded, loose, or bent prongs. This may be remedied by sandpaper. UX sockets may be brought back to the normal by the aid of a pair of pliers from underneath but this necessitates its removal and should not be attempted unless definite evidence indicating a defect is present.

Examine jack springs, and solid connections, touching the parts by a glass rod or piece of ebonite. If this results in a grating noise, or a splutter, there is a loose joint. To test variable condensers, and transformers, apply the leads from a 22½ "B" battery, one to

one side, the other side to a pair of telephones, and the free terminal of these to the other side of the condenser or transformer. In the case of the condenser there will be one click, and no more, no matter how often the free terminal is replaced. Connect the two terminals of the condenser together and then repeat the test. Another click should result. With transformers, a click should be heard every time both ends of a continuous winding is touched.

Quite often the moving vanes and the fixed vanes of the variable condenser touch at certain portions of the dial reading. The writer had an example of this in that a set which had just been constructed (the A.C. Browning Drake) gave good results except for the lower frequencies which indicated a great deal of interference by way of spluttering noises. An examination showed that when the upper part of the dial was reached, the moving and fixed vanes of one of the condensers touched and caused the set to break out in a succession of noises similar to static.

Another very common trouble is defective grid leak. This manifests itself by a noisy spluttering. Its cure is obvious. Test speaker cords by shaking or twisting. If a noise results from this treatment, replace the cords.

WE now have to take the second part of our supposition, that the set on being isolated from the antenna and the ground functions satisfactorily. The procedure from now is:—1. Note if any household appliances such as flat-irons, electric fans, violet ray machines, electric vacuum cleaners, or the lights are turned on. If so, then turn them off and note the result.

—Continued on page 28.

SOME discussion has occurred in Wellington Rugby Union circles as to the broadcasting of Rugby matches from Athletic Park. The discussion arose through the Broadcasting Company adopting the procedure of broadcasting Ranfurly Shield matches by relay from Masterton on the occasion of such contests being held. On one of these occasions the relay took place on a Wednesday, ordinarily Wellington's silent day. 2YA, however, went on the air specially for the Ranfurly Shield match, in order not to disappoint listeners in general.

Prior to the Wellington-Southland match the question was raised at the meeting of the Wellington Rugby Union by the chairman, Mr. Prendeville, the Broadcasting Company, he said, had been given the privilege of broadcasting their matches throughout the season, but when a more important match was played a change had been made without reference to the Wellington Rugby Union. This put them in the position that, although matches were being played on the day in question at Athletic Park, they were not broadcast, the preference being given to the Ranfurly Shield match from Masterton. "This," he said, "raised the question as to whether they should not require that the Broadcasting Com-

pany, in having been given the privilege of broadcasting their matches throughout the season, should be required to broadcast the whole of the matches without distinction."

Arising out of the discussion which ensued, it was resolved that the Broadcasting Company should be written to asking whether it was intended to broadcast all the Wellington Rugby Union matches for the balance of the season.

In replying to this letter, the general manager of the Radio Broadcasting Company, Mr. A. R. Harris, wrote as follows:—

"As we have previously intimated," stated the letter, "we are desirous of co-operating with you in every possible respect and were firmly of the opinion that in broadcasting the above-mentioned games we were acting in a manner which would further this object."

Broadcasting Football Matches

Question Discussed by Wellington Rugby Union

"We appreciate that the broadcasting of matches from Athletic Park reflects to the immediate benefit of your union, but on the other hand it will be realised that any action which might be taken for the purpose of widening interest in the sport generally, whether per medium of broadcasts from Athletic Park or elsewhere, would automatically react to the advantage of the individual unions.

"Having this in mind, we carried out the transmissions referred to, not only because the games were of wide interest, but also because they were calculated to afford ample illustration of the spectacularities and science of the Rugby game in the special interests of those who were not familiar with these technicalities to the extent that they would not otherwise become regular supporters on the latter score alone.

"Thus, it is unfortunate that our action has apparently been interpreted

in any way as a restriction upon our effort to co-operate with you, as we were not clear that it was your union's wish that our broadcasts should apply to all its fixtures; and apart from this the relays from distant centres and from overseas have involved considerable extra expense and inconvenience.

"We may assure you, however, that we are anxious to work in with you to the fullest possible extent in furthering the interests of Rugby generally, and your union in particular, and if you have any suggestions as to how this might be better achieved we would be very pleased to hear from you accordingly."

In the discussion which followed, the chairman, Mr. J. Prendeville, said that he had received the following note from a man in Eketahuna: "Dear Prendy,—Don't be a pig; let us have the best. Wireless to-day has become part of the life of the back-blocks."

Mr. Prendeville said it occurred to him that a test might be carried out next Saturday with a view to seeing, if the match was not broadcast, whether it would reflect to the union's benefit.

Major T. J. King: "There is no question of the Broadcasting Company benefiting, but I think the matter should be let stand until next year."

Mr. H. D. Morgan said that although the union had lost money as a result of the matches being broadcast, nevertheless the arrangement was a benefit to people outside the district. He thought they should be willing to pay a little to help those people.

Major King said the union provided a free entertainment for the Broadcasting Company.

Mr. A. J. Griffiths: "That is so."

Major King: "The boxing people had to cut it out. They started it, and fellows used to sit by the fireside and listen to the fights."

Mr. G. F. W. Jackson said that the Broadcasting Company in its reply had side-stepped the issue, and with this view the chairman agreed.

It was decided to allow Mr. Lamb to broadcast a description of the Canterbury v. Wellington game on Saturday on condition that other matches under the jurisdiction of the union are broadcast for the remainder of the season.



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Long Distance Reception

SOME astonishing reports of long-distance reception bob up from time to time, but the latest from Australia takes a lot of beating. A listener in Parkes, New South Wales, claims to have an extraordinary one-valve set which not only brings in 2FC, 2BL, 3LO and 3AR in the middle of the day and they are heard in the night time without an aerial on headphones, or with an aerial on the loudspeaker. Parkes is about 200 miles from Sydney, and 300 miles by air-line from Melbourne. He also says he gets 7BY (Bombay), JOAK (Japan), 7ZL (Hobart), 5OL (Adelaide), 2GB (Sydney) and 4QG (Brisbane) at good headphone strength at night-time.



FTER "The Pied Piper" comes "Henry the Humorist."

Last week we outlined for the amusement of listeners the mature views on broadcasting of the "Pied Piper" of the Christchurch "Sun." This week the humour is provided by one "Henry," who is responsible for the Radio Notes in the Dunedin "Evening Star." His light-hearted irresponsibility warrants the enlargement of his title to that given above.

"Henry" has been giving thought to the problem of radio broadcasting. Yes, really he has. And he has reached a wonderful conclusion. He is quite satisfied, he says, "that broadcasting has come to stay, and it cannot remain indefinitely in the hands of a private company." He therefore proffers the view that the whole of radio broadcasting should be taken over by the Government, and run on either one of two surprising schemes which he outlines. First, he suggests that the Government should taken over the four Dominion stations, and attend to the technical details, and sub-let a contract to responsible parties to provide the entertainment for each of the four centres. This could possibly be done by tender, with a different organisation in each province controlling the musical items, and being paid a definite yearly sum for such activity. All new licenses could go to the State in full, and the organisation need not be dependent upon any falling off or increase in the license figures. Why worry about such mundane details? Let Johnny Government worry! If the organisations were paid a definite sum by the Government, he says, the latter would profit by all excess licenses—and the Government would then probably be in the position to reduce the cost of license fees! (Conversely, it might raise them if revenue did not meet expanding costs.)

THE second suggestion advanced by "Henry the Humorist" is that perhaps the Australian Broadcasting Company could be tempted for a certain definite sum to extend its activities in the matter of programmes in the Dominion. This would give professionalism in the programmes, dispensing with "mediocre amateurs." In this case the Government would have the necessary funds available, and could extend to the people, if so desired, a

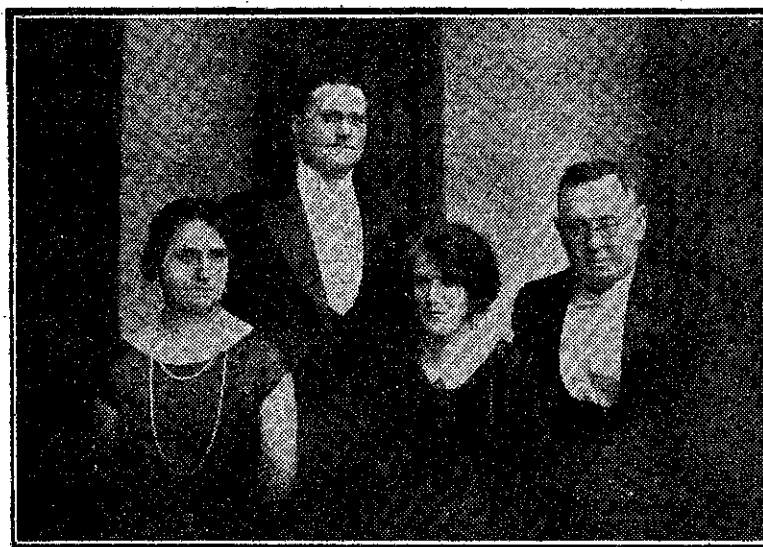
Stargazings of "Henry the Humorist"

Press Critic urges Government Control

form of six-monthly license, and probably to deserving schoolboys a three-monthly rate! That last touch is very considerate indeed. His schoolboy pals will certainly thank Henry for the thought.

WE understand on very good authority that "Henry" was so pleased with the maturity and soundness of his business views, as expounded in this interesting article of August 24, that

read and reflect upon the interview reported elsewhere in this issue, in which Mr. Doyle, one of the "Big Three" of the Australian Broadcasting Company, outlines the inception of that organisation. If "Henry" has the capacity to appreciate the business intricacies involved in that statement, he will realise that his suggestion as to forming a separate entity in each of the four centres in New Zealand to tender



THE SALON QUARTET—POPULAR SINGERS AT 3YA.

From left to right: Miss Dulcie Mitchell (contralto), Mr. H. Blakeley (tenor), Miss Corrie Aslin (soprano), and Mr. J. Graham Young (baritone).

—Steffano Webb, photo.

he sent a copy to each member of Parliament, together with a covering letter directing their attention to his solution of the grave problem of radio broadcasting. One member was honoured with a special letter. This was Clyde Carr, member of Parliament for Timaru. The Rev. Mr. Clyde Carr was favoured with a special letter, because he was aforesaid associated with 3YA in the capacity of announcer. With the standing thus given him, Mr. Clyde Carr responded to "Henry," we believe, to the effect that he would have the article ventilated and discussed on the floor of the House.

In the Womb of the Future.

NO one can forecast at this stage what the ultimate development of radio broadcasting in New Zealand or elsewhere will involve. It may be that eventually it will become entirely a State-subsidised service, run by the State for the benefit of the community as a whole. That day, however, is not yet, and the immediate suggestions of "Henry the Humorist" display very little appreciation of the intricacies of the subject. Probably the best reply to "Henry" would be to invite him to

until the expiry of the Radio Broadcasting Company's contract, but should immediately begin to adopt "Henry's" idea and organise for the provision of a Government service at that time. "Henry" foresees that, with the resources of the Post and Telegraph Department, relay stations could be established in such points as Central Otago, where, of course, in addition to the farming community, there is a very large population of rabbits hungering for radio reception. They would doubtless be enthusiastic licensees. The Post Office buildings in each town could be utilised for housing the necessary broadcasting plant!

The Mere Factor of Cost.

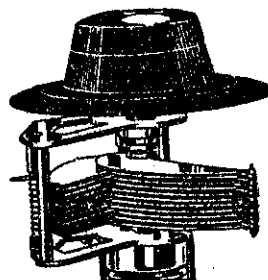
A STRONG point is made by "Henry" of the financial resources of the Government. There is no doubt that the Government has strong financial resources. The community is at the back of it. So strong indeed are the resources of the Government that, in the desirable programme outlined by "Henry," it would be feasible for the Government not to bother with such annoying details as listeners' licenses, but to provide a handsome service free of charge to listeners, and liberally pay the artists, professional and amateur, as required, and in addition, as suggested by "Henry," extend liberal benefactions to charities throughout the country in consideration of being allowed to broadcast sporting events.

There is certainly no difficulty in finance once it is held desirable that the Government should provide a radio service. The only point is the attitude of the taxpayers in general, particularly the man who doesn't want the service and objects to providing it for others.

If and when Government control of radio broadcasting ever does come in New Zealand, it will, it is recognised by those who have given thought to the subject, immediately involve increased expense in operation. The present system, with its judicious combination of Government supervision and private enterprise, is yielding a standard of attainment creditably high in relation to the cost involved. Every commercial mind will realise that transfer of operating expenses to Government control would increase the ratio of expenses, simply because the State would inevitably be regarded as a comparative milch cow for all those selling goods or services to it, and the tendency would be for the total cost to increase without any necessary increase in revenue. We are afraid that the murmurings of "Henry" must rank on a par with those of the "Pied Piper." They are quite irresponsible and without regard to business facts.

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*Across the Seas**Prime Ministers Converse*

THE Prime Minister of Australia, Mr. Bruce, in Sydney, conversed with Lord Passfield, Secretary of State for the Dominions, in London, by means of radio telephony. The transmission was arranged by Mr. Fisk, managing director of Amalgamated Wireless. The speakers discussed inter-Imperial trade relations. They are the first two Ministers of the Crown who have communicated direct between Australia and Britain. The thirteen-thousand mile talk lasted ten minutes and the speakers were amazed at the clarity of the reception.

*Mr. Snowden's Address**Received in Wellington*

MR. SNOWDEN'S address was heard by a local Wellington amateur with a short-wave set on loud-speaker with wonderful clarity from 7.35 to 8.13 on Tuesday morning (9.5 to 9.43 o'clock the previous night at 2LO) relayed from 5SW, Chelmsford. It was a modest, eloquent and dramatic story of the splendid fight put up successfully by the British delegation. The personal triumph of Mr. Snowden was not emphasised in the least, and he paid a fine tribute to the efforts of M. Jaspar and M. Briand to bring about the settlement.

Mr. Snowden gave a graphic and thrilling description of the last scenes when the conference was on the point of breaking and sear; for the delegates had actually been booked in the Paris express. He pictured the last moments' meeting with the Continental delegates in one room and the British in another and M. Jaspar passing from one room to another as intermediary. When M. Jaspar brought the first increase of £100,000 on the previously rejected offer, Mr. Snowden replied, "You have obtained £100,000 in half an hour. At that rate you will bring them up to our figure by midnight. Be not weary in doing good!"

And at 11.45 p.m., the final offer was made and accepted, said Mr. Snowden, and he claimed that the efforts of the British delegation had re-established Britain's prestige in Europe. He added that the storm of criticism of Britain in the Continental Press was really more amusing than irritating, and he instanced their desperate efforts to find anything to fling at Britain. He remarked that one French cartoon had dragged in Britain's treatment of Joan of Arc, Mary Queen of Scots, and the banishment of Napoleon!

Mr. Snowden said that under the arrangements for the evacuation of the Rhineland, the last of the British troops should have left there by Christmas. He has a splendid voice for the microphone and after his eloquent account of the negotiations one does not wonder so much at the success of the Socialist Government.

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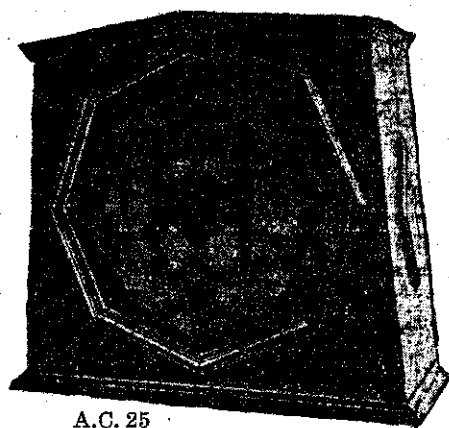


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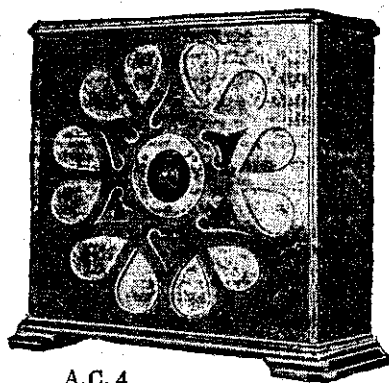
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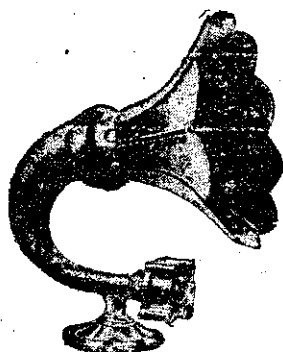
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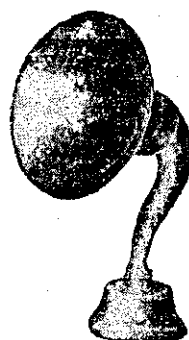
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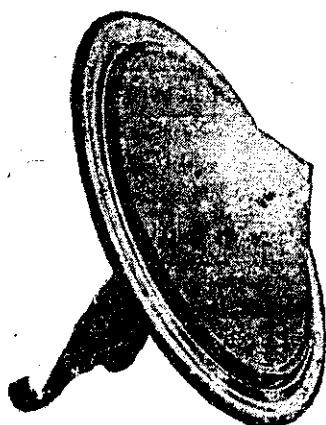
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THE recent statistics for America show that there are just under ten million receiving sets in use. There are enough sets in America (including those in factories and in dealers' shops) to endow every home in America, England, and Scotland. Perhaps America is not unjustified in calling herself the home of radio.

IN Brussels recently, great controversy was excited by the installation of wireless in the Parliament of Belgium. The microphone was placed near to the president who utilised this apparatus to evidence his disapproval in the case of any uproar or breach of order.

THE first piece of grand opera to be broadcast in its entirety was broadcast from the Theatre Capitol in Toulouse, at the beginning of the year. The opera on this occasion was "Faust." The Continent opera is so popular that the music-loving public wait all the afternoon to obtain a seat, as the audience usually far exceeds the capacity of the halls.

PILED haphazardly against a beam in the basement of a hardware store in a North American city, a dozen or more refuse tin covers reproduced a radio programme without valves or other electrical aid. Discovery of the freak was made by the watchman after several nights of searching to locate the source. The music was heard only after all radio sets and electric apparatus had been turned off for the night. The happening was later explained by an expert as due to the high electro-magnetic field produced from a 5000-watt station within a block of the building. The beam, he said, acted as an antenna, while the covers served to resonate with the modulated tones.

THE A.B.C. has been successful in negotiating with the Australian Copyright Owners' Association for a variation of the copyright fees. Hitherto, only a definite number could be broadcast, but now a scale of charges per 1000 numbers has been imposed. Thus the company has now a much less limited field for selection, and the result will be evidenced in more varied programmes.

AN innovation in radio lectures is the introduction over 2BL of Miss Janet Mitchell, of the Government

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A POLICEMAN in Detroit has invented a radio receiving set which weighs only three pounds. The antenna is two feet in length, and is worn under the jacket, while the set itself is worn around the neck. This new invention will make it possible for all the police force of Detroit to be equipped with wireless receivers, and thus co-operation with the motor force will be facilitated.

PROFESSOR Jesse Williams, of the New York University, has begun a campaign against wireless. He says that wireless results in a great shock to the nervous system, and finally undermines the listener's health. The professor declares that if wireless was to be set aside for a short time, America would notice a great improvement in the health of her people.

THE station to be erected at the Vatican is to be the largest in the world, and will broadcast at a strength of 50 kilowatts. The station will be a mixed one, with telegraph and telephony. The cost of the installation is estimated at half a million pounds, the whole of which is subscribed by the Catholics of America.

THERE has been much speculation as to the most powerful station in the world. It has finally been ascertained that the largest station in the world is situated at Prague, and is rated at 120 k.w. in the aerial, so the magnitude of this foreign station can be imagined.

THERE have been some important developments recently in the broadcasting of still pictures, and it is now officially stated that arrangements are in hand whereby every European country will transmit them. Prague and Budapest are installing Fultograph transmitters, as are Rome, Madrid and Barcelona, Brussels, Helversum and Radio Paris are also to be seen as well as heard in the near future.

RECENTLY in Sweden 155,000 people replied to a "questionnaire" which was sent out to 384,000. By a huge majority no change of importance was desired. The inference is that the

Swedes are either very complacent and easy-going, or that their programmes are well-nigh perfect. The chief criticism was that the programme contained too much music. They want more speeches.

THE Franklin Institute, Philadelphia, has awarded the John Scott medal to Dr. Lee de Forest. This well-known American radio man vastly improved the three electrode valve, which in its earliest form, invented by Flemming in England, had only a filament and a plate (anode) by the introduction of the "grid."

A RECENT invention in Russia is a means of controlling all public clocks by a centralised system of radio. This invention assures the uniformity in time of all clocks, and by controls at headquarters the hands can be set. A meter also reports if any clock is out of order, and also states the exact location.

ENGINEERS of WGY, Schenectady, announce that they have taken part in an interesting experiment. While they were listening at Schenectady to a programme from the British Broadcasting Company in London, being relayed by PHI, Holland, the short-wave station of the General Electric Company picked up the rebroadcast and put it on the air. Engineers of the B.B.C. picked up the American broadcast, and put it on the air, 5SW, Chelmsford, from whence it was once again received in America. The time taken for the series of three relays only amounted to one twenty-fifth of a second from the time of the first broadcast from London.

STATIONS JOBK and JOCK, Japan, roughly estimate the number of pirates in Tokio and Osaka to be 150,000 and 60,000 respectively, and it is thought that the number of free listeners throughout the country will total easily 500,000.

THE B.B.C. is constantly receiving letters from people who declare that storms and electric showers are caused by wireless. During the war it was the sound of cannons that caused bad weather, now wireless is blamed. No one in New Zealand has yet attributed the earthquake to wireless.

WIRELESS operators in air liners say that in the ratio of the altitude, in that ratio does the volume of reception decrease. One recently advanced reason for this was the absorption of electric waves by the sun, but there seem to be certain flaws even on the face of this statement.

GERMANY is rapidly approaching Britain in its total of licensed listeners, which now stands at over two and a half millions. In at least one dis-

trict a novel method of increasing listeners is in vogue. Every listener who successfully canvasses for another and gives his name and address receives a money prize equivalent to one month's license fee.

IN Mexico City arrangements were made to broadcast the proceedings of the trial of Jose Leon Toral, who has been accused of the assassination of General Obregon. This is probably the first time in which a murder trial has been broadcast by the State, and the step has been taken in view of the tremendous interest shown in the trial.

AMONG the artists who featured at the Trinity Grammar School Vice-Regal concert, broadcast August 27, from the Ashfield Town Hall over 2BL, was Miss Marjorie Allomes, a popular New Zealand contralto. This young lady has charming stage presence and her voice is remarkable for its richness and depth. Her artistic interpretations charmed all listeners.

THE estimated number of radio receivers per thousand population in the United States lies between 68.1 and 90.9 per thousand, according to the enthusiasm of the statistician. If he is trying to estimate the market for receiving sets it is the former figure, if he is trying to sell radio advertising, it is the latter. The smaller figure is probably very much closer to truth than the latter.

IN Holland, before the prospective wireless enthusiast may put up his poles he must first receive the sanction of the Administrator of Postal Affairs. This, no doubt, accounts in part for the very low number of listeners in Holland.

Advisory Trustees

This is the heading of an interesting folder dealing with the subject of Advisory Trustees and just issued by the Public Trust Office. It explains in a straightforward manner how one or more Advisory Trustees may co-operate with the Public Trustee in the administration of an estate of an involved or complex nature.

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(Incorporating the "Canterbury Radio Journal.")

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WELLINGTON, FRIDAY, SEPTEMBER 13, 1929.

EDITORIAL NOTES.

WITH the return of Mr. G. McNamara, Secretary of the Post Office, from a tour abroad, with the particular objective of attending the International Postal Conference, it may be taken for granted that the Postmaster-General will be presented with a report embodying a review of radio broadcasting as conducted under different systems of control in the various countries visited by the Secretary. This report will be of special departmental interest, as informing the Postmaster-General of the processes adopted and the results being attained in countries abroad. The New Zealand system of control, as is well known, is an adaptation to our circumstances of the two major systems employed in other countries. In Britain the Radio Broadcasting Company was eventually transformed into the British Broadcasting Corporation, an organisation established with Government backing for the specific purpose of administering broadcasting. It is in effect a Government-controlled institution, with illimitable resources due to the mass of population served. In America the system of private enterprise has prevailed, and in spite of difficulties presented by an initial plethora of stations, has resulted in the establishment of a high standard of efficiency in radio broadcasting in that community. In fact, the United States is acclaimed as the home of radio. Certain disabilities have been inflicted upon listeners by the methods adopted there, such as undue preponderance of advertising matter and sponsored programmes; nevertheless, good services are maintained by private enterprise.

NEW ZEALAND, by adapting a half-way house between these two systems, has preserved that economy of operation given by private enterprise, and the necessary elasticity for prompt action. We have also avoided the infliction of advertising matter over the air, and, having regard to our circumstances, this system has given a standard of efficiency that has met with the general approval of listeners. The Government, through the Post and Telegraph Department, protects the interests of listeners by regulation, supervision, and oversight.

THERE are, however, some who are not satisfied. This is as it should be. Critics—even unreasonable critics—fulfil a certain necessary function in life. They keep one alive, and clarify thought

even when they propound stupid ideas for betterment. Into this category comes an article which recently appeared in the Dunedin "Evening Star." This article, contributed by one "Henry," to whom the appellation of "Henry the Humorist" could most suitably be given, makes the suggestion that Government control immediately be instituted in this Dominion. The reasons he advances are immature and bear the hall-mark of inexperience. For the reason, however, that "Henry" was so enamoured of his ideas that he forwarded a copy of his article to each member of Parliament, together with a covering letter soliciting their support, and a special letter to the Rev. Mr. Clyde Carr, formerly announcer of 3YA, we give him in our columns a publicity to which he would not otherwise be entitled. This publicity is given merely to inform listeners of the undercurrents at work to inspire attacks upon the broadcasting service. So far as we are able to judge from the volume of opinion flowing in upon us from the pens of listeners, we hold the view that at no time has the standard of service given by the Company been so good as is now obtaining, and never before have listeners been so generally satisfied. In those circumstances we rather imagine "Henry's" outburst will prove to be a damp squib.

Total of Listeners "In a Persian Garden"

THE total figures of radio listeners as at July 31, 1929, according to a statement issued by the General Secretary of the Post Office, is as follows:—

	Receiving	Dealers	Others
Auckland	14,563	240	147
Canterbury	7,995	175	81
Otago	3,551	126	52
Wellington	17,899	396	98
	44,008	937	378
Grand total:	45,323.		

At 1YA on Tuesday,
September 17.

WHEN Liza Lehmann retired from the concert stage in 1894, on the occasion of her marriage, she turned her attention to composition, and in 1896 her first work, the song cycle, "In a Persian Garden," was produced at a private concert at the house of Mrs. A. L. Goertz, the singers being Mesdames Albani and Hilda Wilson, Ben Davies and David Bispham. A little later it was publicly performed at the old St. James' Hall, and achieved an immediate success. This success was quickly repeated in America, and it set the fashion for the many song cycles that followed.

Waitomo Caves Concert

Relay from 1YA

On Friday evening an event, unique in the history of radio broadcasting in New Zealand, will take place in the form of a concert relayed from the world-famous Waitomo Caves. This concert will take place in the innermost depths of the caves, in the Cathedral Hall, the acoustic properties of which all those who have had the pleasure of a trip through the wonderful glow-worm studded caverns, well know. The contributing artists include Miss Millicent O'Grady, soprano; Miss Nina Scott, elocutionist; Mr. Len Barnes, baritone; Mr. Cyril Towsey, pianist, and Mr. Owen Pritchard, humorist.

Mr. G. McNamara

Return from Conference

BY the Sydney boat, which arrived on Tuesday, Mr. G. McNamara, Secretary of the General Post Office, returned from a tour abroad, primarily undertaken to attend the International Postal Conference. While in Britain and abroad Mr. McNamara made personal investigations and inquiries in connection with broadcasting systems obtaining in countries visited, and it may be taken for certain that, in his report to the Postmaster-General, a summary of experiences in regard to radio broadcasting will be given.

The work is a setting of some thirty quatrains from the Rubaiyat of Omar Khayyam, as translated by Fitzgerald. It is not, like some of its successors, just a collection of songs, but a complete whole, the various solos, duets and quartets being bound together by melodious recitatives and instrumental interludes. Much skill has been shown in the selection of the various stanzas, so that one thought is extended to make a complete section. Thus, for instance, the contralto recitative and solo begins with the 39th stanza, "Ah, not a drop that from our cups we throw", and continue with the 19th and 20th ("I sometimes think"); and the soprano solo, "But if the Soul" includes stanzas 44, 65 and 66.

There is a slight Eastern feeling in the music, but its effectiveness is mainly dependent upon the delightful manner in which the somewhat pessimistic philosophy of Omar and the polished charm of Fitzgerald's verse are reflected. It is, indeed, not too much to say that Liza Lehmann's music brought the beauty of Fitzgerald's poetry to the notice of many thousands who would otherwise have passed it by.

The presentation at 1YA will be in the hands of the Olympian Quartet.

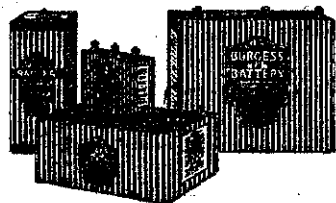
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Lecture Recital at 4YA**Modern Writers**

MODERN writers, Sir Charles Stanford, will be the "motif" of 4YA's programme on Monday evening, September 16. Three of the compositions of this brilliant English musician will be presented by the Majors' Quartet. These numbers are obviously of an Irish nature, as might be expected from a composer of Irish nationality.

Miss Dorothy Skinner will sing two of Stanford's songs, and modern song writers will be represented by other vocalists on this programme.

Mr. Thos. J. Kirk-Burnand, one-time President-Conductor of the Auckland University College Musical Society, and now conductor of the Dunedin Operatic and Dramatic Society, will precede the above-mentioned items with a lecturette on Sir Charles Stanford.

Broadcasting Pictures**Fultograph in Australia**

ARRANGEMENTS are well in hand for the transmission of "still" pictures by the Fultograph method from 2FC, Sydney, and 3LO, Melbourne. The engineering work is well advanced, and transmission will begin as soon as business details are arranged.

The company responsible for the innovation has a limited quantity of receiving apparatus available for the use of experimenters, and the demand which was set up in Britain for Fultograph receivers as soon as the B.B.C. began transmitting pictures, should be repeated in Australia.

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

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

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

Hastings Concert**Appeal for Funds**

IN response to an appeal which was broadcast during the relay of the concert from Hastings through 2YA on August 22 last for donations to assist with the installation of a radio set in the Napier Hospital, the secretary wishes to thank the following who replied to that appeal:—B. Cuckson, Lower Hutt; R. Astwood, Waitara; "Listener-in," Wellington; "Toasted-toes," Wellington; employees Hore Station, Gisborne; J. E. Pickling, Havelock North; "Three Listeners-in," Wellington; Anonymous, Dunedin; M. Barton, Wanganui; Elder W. B. Mendenhall, Wanganui; G. Steel, Dunedin; G. D. Stewart, Dunedin; Mrs. A. K. Gavin, Seddon; "P.C.," Bluff; Miss R. Ashenden, Wellington; G. H. Cottle, Upper Hutt; Thompson family, Wellington; Mrs. P. W. Orten, Wanganui; H. Firth, Petone; "Two Listeners-in," Christchurch; Messrs. Nat Woods and Co., Christchurch; P. G. Denton, Waiata; "Twa Scotties," Hamilton; F. H. Thornton, Petone; Mrs. V. and S. Johnstone, Ward; "A.G.C.," Stratford; M. Knight, Levin; "Self-denial," Napier; A. McIntyre, Kelso; N. McEwan, Wyndham; E. Pratt, Rotorua; H. R. Harper, Waimate; "Anonymous," Petone.

Oddone Savini, Violinist**To Broadcast from 3YA**

AS operatic composer, conductor and instrumentalist of ability, professor of music and a literary contributor to aspects of music, Signor Oddone Savini, who is to appear at 3YA on September 19, possesses high qualifications. Signor Savini is a comparatively recent arrival from Bombay, where he has earned the highest praise in musical circles.

On arriving in New Zealand he settled at Wellington, where he played a Grieg concerto before the Wellington Musicians' Society and also in association with Miss Turner, performed a concerto by Cesar Franck.

Signor Savini is a native of Florence, where he learned the violin from Upliano Chiti, and counterpoint from Grazzini, later of the Venice Conservatorium. With his own composition, a three-act comic opera, "Oro Che Vola" ("Flying Gold") he won the Milan prize in December, 1926.

Signor Savini played as first violinist in the principal Italian theatres, and also played under Mascagni, and whilst in Bombay played with the Gonzalez Grand Opera Company.

He is now conductor of the Christchurch Orchestral Society, and his performance at 3YA on Thursday, September 19, will be an event of unusual interest and will afford listeners an opportunity of hearing a musician of outstanding qualifications.

"Waterloo" at 1YA Revue Sketch at 4YA**Conan Doyle's Play****Winkel Lampen Radio Players**

THE Auckland Dramatic Players have selected Conan Doyle's one-act play "Waterloo" for performance at 1YA on Thursday, September 19.

The play is one of Conan Doyle's best for radio purposes, inasmuch as the plot is simple to follow, effects and musical background assist in the general production, and although the play has its moments of comedy, a serious strain is always evident. The central figure is "Corporal Gregory Brewster," one of Wellington's men at Quatre Bras and Waterloo, and the old soldier's insistence in drifting off into reminiscences of the old days is particularly amusing.

The play was produced at 4YA recently on the occasion of the Waterloo anniversary by Major Lampen and received an excellent reception. Mr. J. F. Montague and his players can be depended upon to provide Auckland listeners with a fine evening's entertainment in producing this play.

The Maori Pageant**Thanks of Performers**

MR. H. METE KINGI, manager of the Wanganui Maori Party, writes as follows:—

"Although the Radio Maori Pageant is finished and done with, for this year, at any rate, may I say on behalf of my associates how very gratifying to the Wanganui Maori Party it has been to learn from the 'Record' of the success of the broadcast, and of the wide appreciation expressed of our efforts, at 2YA. Although a great privilege to be asked to provide the material and performers for the broadcast, the responsibility was no light one. For the sake of the Broadcasting Company and its officers who have been so kind to us we are indeed glad to learn of the full and complete success. We would thank the large circle of listeners-in throughout Australia and New Zealand for the many kind references to our efforts."

Talking Round the World

When the German liner Bremen was establishing a record trans-Atlantic trip recently, the operator on board was in two-way communication with an operator of the Sydney coastal station, who was using a low power short-wave set. A trawler off the coast of Greenland has also been "worked" by the coast station at La Perouse. Although the coastal stations are intended mainly for ship traffic, they have proved quite versatile when occasion arises. During the recent floods in Tasmania when nearly everything on the island, including the telephone lines, was washed away, Amalgamated Wireless came to the rescue and maintained the telegraph service.

AUSTIN MELFORD'S revue sketch "Dining Out" will be presented by the Winkel Lampen Radio Players at 4YA on September 16. This sketch deals with the ordeal of man and wife endeavouring to dress for a dinner which unbeknown to them had taken place on the previous day. The discovery of this fact is due to a discussion which takes place in connection with the colour of the tie to be worn by the gentleman and the address of the hostess, reference being made to the original invitation. First produced by the author and Miss Jessie Winter at the Palladium, London, in 1927, the success of this revue sketch is assured, abounding as it does in humorous situations.

Weather Reports

A CORRESPONDENT recently wrote emphasising the valuable nature of the weather forecast issued each evening. He asked why fixed times could not be given for the weather forecast to be broadcast, say, at 7.5 p.m. The difficulty is that the weather reports have to be compiled from data, some of which is telegraphed from overseas. Further, after compilation by the Meteorological officers in Wellington, it has to be telegraphed to the different broadcasting stations in other centres, with the inevitable result that some irregularity obtains in the receipt of the weather forecasts at some stations on some occasions. This correspondent and others can rest assured that the Broadcasting Company is fully alive to the paramount importance of weather information to country readers and vessels at sea, and every effort is made to issue it at the earliest possible moment after it is available. It is not feasible to issue it so early in the evening as 7 o'clock.

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Radio Exhibition**Relay from 3YA****Schneider Cup****Over Thousands of Miles****Fixture Made in Auckland To Mark Cut-over to Automatic Telephone System****Efforts Made to Rebroadcast****Sydney and London Converse**

DECISION has been reached amongst the radio trade in Auckland to hold a Radio Exhibition in the Town Hall in the very near future. A strong committee has been appointed, and arrangements are actively in hand for the presentation of an interesting and effective display to the Auckland public. It is felt that, with the large population of keen and enthusiastic listeners in the northern city, the favourable results secured by Wellington will at least be equalled, if not excelled. The Auckland fixture will have the advantage of being able to display models that have come to hand since the holding of the Wellington function.

TO mark the completion of the installation and cut-over to the new automatic telephone system in Christchurch, the Postmaster-General, Hon. J. B. Donald, will entertain representative citizens at a function to be held in the Art Gallery on September 14 at 8 p.m. Principal officials of the Post and Telegraph Department will be

THE various YA stations throughout New Zealand made valiant efforts to pick up and rebroadcast Station 5SW on the occasion of its description of the Schneider Cup contest. For this purpose they were maintained on the air from Saturday night onwards till 3 a.m. Sunday morning. Unfortunately atmospheric conditions were so unfavourable that in the case of 2YA a complete rebroadcast was impossible.

FOR the first time in radio history Sydney was heard recently in direct two-way telephonic communication with London. A two-wave conversation by short-wave wireless telephony between 2ME (Sydney) and GBX (Rugby) was the experience of Mr. R. Leslie Jones, of Lyall Bay, Wellington. From shortly after 7 p.m. till 8.3 p.m. duplex telephone conversation was heard, some of the speech from England being of fair volume. Station 2ME rebroadcast London's transmission, and for a while London was tuned in direct at Lyall Bay. Matters were so arranged by 2ME that listeners could hear the discussion both from London and Sydney. The Sydney clock striking the hour of 6 p.m. was clearly heard in London, and during a brief spell music was broadcast from Sydney, including the rather apt, "I Hear You Calling Me."

Messrs. McDonald and Farmer, of 2ME, spoke to GBX and Mr. Bonnington did most of the talking from London.

In reply to a question 2ME stated that 12 amperes were being put into the aerial. "Good-bye" from each end of the globe sounded at 8.3 p.m., ending what was a unique test between Sydney and London.

Essay Competition**2YA Sunday Service**

THE interest in this service, and particularly in the weekly search questions, is shown by the number of answers received each week. Last week the total reached 164.

Uncle George has arranged an essay competition for listeners as follows:—

Grade 1.—Under 10 years.—Write out Psalm 23.

Grade 2.—Over 10 and under 12.—Essay, The Parables of the Sower and the Talents.

Grade 3.—Over 12 and under 14.—Essay, "The Twelve Disciples."

Grade 4.—Over 14 and under 16.—Life of the Apostle Paul.

Each entry to be in competitor's own handwriting and to be his own work. To be signed by the competitor, giving age next birthday and address. To be signed also by parent or guardian.

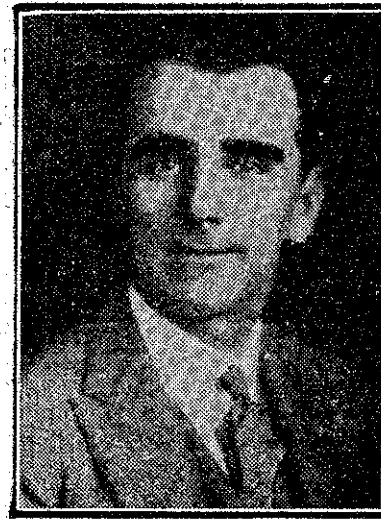
Competition closes September 30.

Address all entries to Uncle George, 2YA, and mark envelopes "Competition."



MISS VERA MARTIN
A gifted contralto singer heard from 3YA.

—Steffano Webb, photo.



Mr. Owen Pritchard, entertainer,
a member of the "Radio Scamps" and the "Minus Fives."

—S. P. Andrew, photo.

present and representatives of the Chamber of Commerce and Progress League will speak.

Arrangements have been made for 3YA to relay this function and the "old-time" evening to have been held on this date has been postponed until October 12.

3YA had somewhat better fortune, and was able to pick up a little of the information given out by 5SW, and announce same for the benefit of listeners. While the result as a rebroadcast was a failure, sufficient news was received to give listeners the actual news of moment, especially after the result was officially announced in England. This in itself was a great performance, and a tribute to the value of radio. It is regrettable that conditions were not more satisfactory, and that Station 5SW was not heard with greater clarity in New Zealand. It is understood that 2FC, in Sydney, also experienced difficulty in its efforts to pick up 5SW, so that from the point of view of serving the overseas Dominions this effort fell short of perfection. When the time comes for greater effort to be concentrated on the building of effective stations for Empire broadcasts on the occasion of such events as this overseas listeners will be very pleased.

A musical programme was maintained by 2YA from the time of the ordinary closing down on Saturday night right through to the commencement of the Schneider Cup events, and at intervals throughout the effort to gain news concerning it. This effort was appreciated in those homes where birthday parties and impromptu dances were in progress.

Radio for Orphanages**Contributions Received**

IN a recent issue we published a letter from Cousin George suggesting that the excellent lead of Dunedin in providing radio for orphanages in that city should be followed by Wellington. In some of the orphanages in this city, the children have not the privilege of enjoying radio, and the suggestion was advanced that listeners in general who appreciated wireless should contribute such small sums as they felt inclined in order to equip the few remaining orphanages in this city with radio. The cost of the necessary equipment, with amplifying attachments, would be approximately £15.

We commended this object, as enunciated by Cousin George, and contributed the sum of two guineas to the fund, and announced that we would be prepared to receive subscriptions from interested readers. So far, two contributions of 10s. each have come to hand, and these are acknowledged. We feel sure that this object will commend itself to a greater number of listeners. We would especially like to see at least £15 secured to equip one orphanage with radio, so that the children there could enjoy the music that goes on the air, more particularly in view of the approach of the Christmas season.

Donations Received.

Mrs. L. Canty, Wadestown .. 10/-
Mrs. A. Bowie, Wadestown .. 10/-

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Birth of the A.B.C.**Story Behind the Venture**

THE eyes, or rather the ears, of Australia are at present focused on the "Big Three" of Australian broadcasting. Speculation was rife as to the manner in which Sir Benjamin Fuller, Stuart Doyle, and Frank Albert came to work in conjunction—like the "Three Musketeers," each for one and one for all.

In a private interview, Mr. Doyle stated that his interest in broadcasting commenced five years ago, when he understood what a powerful rival radio would prove to the theatrical profession. He noticed that while the public showed an increased enthusiasm and palate for broadcasting, there was an unmistakable distaste for the fare that was served up to them.

Mr. Doyle remarked that nothing was co-ordinated. When, for instance, country clients were anxiously awaiting news of moment or business men wanted the latest information on markets from abroad, they would be served with bed-time stories or the latest sports results. As a result, a benevolent Government was forced to take the matter in hand, and consequently there has been a complete reorganisation in broadcasting methods. Mr. Doyle had kept in touch with broadcasting and two years before had lodged an application for a series of A grade and subsequently B grade licenses for every State. As they were the only organisation in the amusement business represented in every State, they were well equipped for taking care of broadcasting activities.

Thus Mr. Doyle, with his big orchestras, musicians, expert personnel, and other ramifications, realised that the time was ripe to proffer a tender which he thought would appeal to both the Government and the people. It was, however, essential that there should be in the organisation some theatrical unit firmly and popularly established. Mr. Doyle's thoughts turned to his friends, Sir Benjamin and his brother John.

There was another aspect—copyright. With the advantages he possesses in this regard, and with his musical knowledge, and with his wide experience in the public palate, Mr. Frank Albert was a natural ally. The long and short of it was that this "trinity" met together privately, and after an unofficial chat, the matter was clinched. Instead of tendering separately they joined forces, and 24 hours later an agreement was drawn up and signed committing each member to different fields of activity and responsibilities should the tender be accepted.

"We all were agreed," said Mr. Doyle, "that our main consideration should be in this huge business the public interest and convenience in what we realise is a national undertaking, and we are minded and resolved to keep this always in view. If I was asked what brought us together, I would say that each of us has confidence in the other two, and we believe that in a junction of forces and a strict limitation of profits, the public will reap the advantage. This is, then, the spirit in which we are undertaking very large responsibilities, and the spirit in which we undertake to carry them into effect."

Mr. Victor Lloyd**First Novel Accepted**

LISTENERS who have enjoyed the educational and dramatic talent of Mr. Victor S. Lloyd over the air in the various plays, etc., that he has participated in will be interested to know that he has just received cabled advice that his first novel has been accepted by Mr. Everleigh Nash, publisher of Arnold Bennett, Conrad, Anthony Hope, A. E. W. Mason, and other leading novelists. Mr. Lloyd's novel carries the title "The Son of Peter"



and is a study of a harsh, headstrong business man and his career in the advertising and business world. Mr. Lloyd, it may be mentioned, is associated with one of the leading New Zealand advertising agencies. The novel is adaptable for radio plays and films, and in all probability will eventually be produced in "talkie" form.

"Galapagos" at 2YA

ALTHOUGH "Galapagos" had been presented on two previous occasions at 1YA and 4YA, Mr. J. F. Montague, associated with Mr. George Warren, scored a well merited triumph with his presentation of this play from 2YA on Friday last.

Mr. Montague has probably given more thought to the question of specially preparing and arranging plays for radio purposes than the majority of elocutionists in the Dominion, and this factor, combined with the previous experience gained in the broadcast from 1YA of the same play, assisted Mr. Montague in carefully deciding those details of the play bearing on the musical background effects and choice of suitable pieces for the musical support which are essential in this particular play for its successful presentation.

Nevertheless the production could not have achieved the success it did without the excellent work done by Mr. George Warren in so capably taking the part of "Red Petersen." This particular part, which is the central character of the play, is most difficult

"Electric Eyes"**New Traffic Control**

"TRAFFIC EYES," which automatically control traffic lights, when they see automobiles, are in use in Pittsburgh, U.S.A., says "Wireless Weekly."

The purpose of this new system is to eliminate all unnecessary traffic delays by giving the right of way continuously to traffic on the main street interrupting the main traffic flow only when cars are actually waiting on the side street to cross the intersection.

Motorists on one street are given a green or "go" signal continuously until a car on the cross-street comes within a short distance of the intersection, at which time the traffic signal mechanism starts to operate and the lights go through a complete cycle, allowing traffic on the one street to pass through and then stop again with the green light on the other street. The lights then allow traffic to proceed uninterruptedly on the one street until the presence of cars on the other street justifies another change.

to handle satisfactorily from the radio viewpoint inasmuch as Mr. Warren was called upon to combine the characteristics of the Swedish accent with clarity of enunciation.

His success in this direction is evidenced by the large number of eulogistic comments which have been forwarded since the presentation of the play.

Since operation of the signals is operated by the actual necessities of the traffic flow, it is expected that a considerable saving of time will result, especially at night when delays for which there are no necessity occur. The purpose of this installation, which is the first in the world, is to determine the practicality of the invention. Simple instructions for operating the lights are given on signs maintained by the Pittsburgh Traffic Planning Department. The signs read, "To get the green light, pull up to the line."

THE automatic feature of the system is made possible by a new application of the photo-electric cell, or "electric eye," which literally "sees" automobiles and regulates the signals accordingly, it is an automobile's shadow, falling on an "electric eye" from an over-head lamp, assuring a sufficiently dense shadow, night and day. Traffic is routed through this beam of light.

The new system is designed to set automatically right any unusual situation that might present itself. For instance, if an unusually large number of cars on one street threatens to hold up traffic on the other street inordinately long, the signals operate on a definite pre-arranged programme, giving each line of traffic a fair share of time. If the automatic control feature should break down for any reason, the signals would operate on the normal programme.

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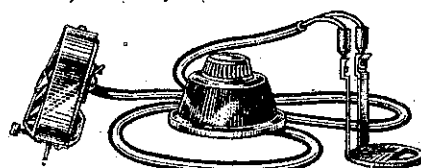
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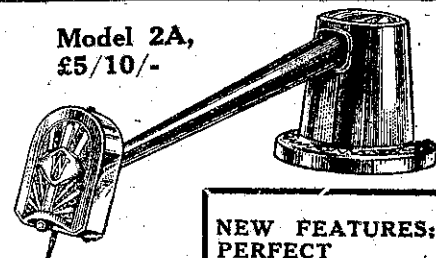
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To Improve Production

Notes for Farmers

UNDER the course of lectures introduced by the SYA Primary Productions Committee, Mr. E. J. Lukey, of the Live Stock Division, spoke last week on sheep troubles. For the benefit of country readers, who desire these notes recorded, we reproduce a summary:—

Mr. Lukey said as sheep farmers were now busy with the lambing season, he would deal with the following conditions and diseases affecting the ewe and her offspring. (1) Anti-partum paralysis (called by some sleepy sickness, etc.). (2) Eversion of the vagina, or putting out the bearing. (3) Blood poisoning, following lambing and marking. (4) Big lamb mortality.

The ewes in general had wintered well, and are in good condition—in fact, many of them were in too high condition, and unfortunately this latter state was considered by some farmers to be what was desired in ewes coming forward in lambing.

"I wish definitely to state," said Mr. Lukey, "that it not in the best interests of the farmer, the ewe, and the future lamb for the ewe to be in too fat a condition. The ideal state to be aimed at for this purpose is to have them in good forward store condition, as some of the matters I will bring forward result from the ewe being over fat."

Anti-partum Paralysis.

THIS condition affects ewes prior to lambing, and at a certain period of the trouble, the ewes appear to be in a semi-paralysed state. In a good conditioned flock of ewes, this trouble may affect pregnant ewes any time from three weeks prior to lambing up to the time of lambing.

The symptoms are that the ewe is observed to be dull, off feed, and separated from the rest of the flock. If approached, little or no notice is taken. Later on she will be found standing in a dazed state, will not move away at the approach of the shepherd, and may not

even pay attention to the dog. The mouth is clammy, the eyes are apparently sightless, and the animal only semi-conscious. The eyes are sightless, there is grinding of the teeth, and probably the wool is easily pulled out.

Under post mortem examination the carcase is always found to be in good condition, there is generally an abundance of kidney and caul fat. The liver is abnormally fatty. It is enlarged, and of a pale yellow colour, and readily broken down by the fingers. In 95 per cent. of cases, twin lambs are found in the womb.

The disease is due to dietetic influences and want of sufficient exercise, and is associated with the plethoric condition of the system, and particularly a fatty infiltration of the liver and kidney. All pregnant ewes of the heavier type are liable to this condition. Being heavy in lamb, with food plentiful, they take little or no exercise, and, as a consequence, rapidly put on fat. Treatment, unless in the very earliest stages is of very little value.

This trouble can easily be prevented if a reasonable amount of care is taken. Pregnant ewes should be placed on pastures where they have to take sufficient exercise during the last month of pregnancy. If this is not possible, hand feeding should be reduced, and the ewes should be quietly driven for a distance of from one to two miles a day, to a paddock of young oats or grass, and after an hour's grazing, allowed to quietly return to the home paddock, or driven back again. A lick of glauber's salt may be tried by placing some glauber's salt, sprinkled on top with a little agricultural salt, out in a box on alternative days. If this causes scouring, the salts should be discontinued.

I strongly emphasise the necessity of giving the ewes exercise to prevent this trouble.

Eversion of the Vagina.

ANOTHER disease that may be found affecting the same flock is that known as eversion of the vagina, or putting out the bearings. The condition of the ewes in general is somewhat similar to that just described.

This disease is due to a combination of causes: (1) Food is plentiful. (2)

Change in Frequency Behind the Microphone

2FC Comes Down

The Official Voice

MR. V. D. HASZARD, Kilbirnie, advises that on Friday evening last, when listening to 2FC, he heard an announcement to the effect that for the future 2FC would be broadcasting on 451 metres (665 kilocycles), instead of the old wave-length of 442 metres (680 kilocycles). The reason given for this change was that it would enable listeners in the Eastern States to have a better chance of picking up Station 6WT Perth. This would apparently indicate that the latter station is being increased in power.

The sheep are rarely disturbed. (3) The affected sheep are generally three years old or more. (4) They are in high condition. (5) They almost invariably are carrying twin lambs.

If the everted vagina is promptly and properly replaced the ewe rapidly recovers and lambs without assistance. To prevent this trouble, gentle exercise is all that is required. This should be done about three times a day, especially late in the evening and early morning. This is best done by putting an old and well-trained dog around the flock.

Lambing Trouble.

An overfat ewe is more likely to have trouble at lambing than a ewe in fat condition. The position of the lamb in the uterus varies and each case must be handled according to circumstances. The lamb from a fat ewe is generally not so strong and active as one from a ewe that is in good store condition.

Blood poisoning sometimes follows when a ewe has been helped deliver her lamb. It results from the womb becoming infected by the hands of the shepherd when he is assisting her. A shepherd in going around his flock should be extremely careful to have his hands clean when assisting ewes and he should avoid handling dead sheep or other animals at that period.

What applies to lambing ewes applies to marking the lambs. It is the little things that count, and the smallest of all is the microbe which is often carried by the operator, either by his hands or by dirty instruments, buckets, etc.

A putrefying carcass left in the paddock is a potential source of infection. It not only acts as a breeding place for the blow-fly pest, but also, if the right organism is present, is often the cause of troubles such as blood poisoning, etc. Big Lamb Mortality, or Pulp Kidney

Disease.

This trouble affects the largest and most forward lamb generally between the third and eighth weeks of its life. The officers of the Department of Agriculture have been investigating this condition, and various theories have been expounded, but so far they have reverted back to the "Over-Nutrition Theory." The young lamb is thriving too fast, the ewe's milk is in abundance owing to the excellent food supply and condition of the animal. Over and above the abundant milk supply the lamb is beginning to nibble at the grass, and any excess of nitrogenous material taken into the system is dealt with by the kidneys, and consequently these may be overtaxed. Changes take place in the kidneys, which finally break down, hence the name "Pulp kidneys."

In regard to prevention, the best results have been obtained by yarding the ewes and lambs for 24 hours every fifth day. This does not entail much labour and does not give the lamb a setback to any appreciable extent, but it has proved effective in reducing the mortality.

FROM the point of view of the listener, one of the most interesting broadcasting institutions is that of the announcer, says "Radio Times." In the official voice there lies the satisfaction of many tastes. One may admire the purity of its "well of English undefiled," or one may rail against its real or imagined accents. One may study it psychologically or aesthetically, and some listeners who have seen the rare pictures of its owners may even thrill a little at its sartorial glory!

The real value of the announcer lies in the fact that he is indeed "a disembodied voice." In the business of accepting the bouquets and brickbats of critical listeners he is equanimity personified. In spite of his profession, he must be more silent than the Sphinx and more philosophical than the Grand Lama.

The vocal asceticism of the announcer is not the effortless thing it sounds. It is a heavy task to introduce a thousand and one unrelated topics in a sympathetic and winning way, yet, so far as personal taste is concerned, to remain "icily regular splendidly null." There is perhaps a responsibility all unguessed at resting with the men who do this work.

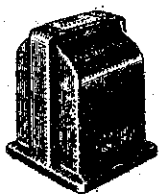
Still, it is not to be thought that the announcer is a mere automaton. If he may not express personal opinions overmuch, he can yet do much towards maintaining the enthusiasm of listeners by the tone in which he addresses them.

It is only rarely that the listener is able to catch a glimpse behind the scenes of announcing. No doubt in spite of the austere nature of the work there is humour in it. When that humour is the product of some little bit of forgetfulness in the studio—serving to show up the "human" side of announcing—it is all the more delightful. It is good to hear the announcer come to the microphone with laughter in his voice—laughter occasioned by some "studio aside" maybe. It is even better when the announcer forgets that the little red light which indicates that the world may listen is still burning while he proceeds to address others in the studio in a businesslike tone.

One can almost see the look of dismay on his face when, after some conversation on the fact that "this person has finished too soon," he notices that the microphone is "open" or "on," whatever such an instrument is, when broadcasting is in progress. Listeners may chuckle, but he has no need to worry, for the announcer is probably the most popular figure in broadcasting, and the listening public will laugh with him a hundred times before they will laugh at him once.

MEASURING instruments for checking the condition of batteries, etc., are essential where a three- or four-valve set is employed for good quality reception.

THE magnification factor of a valve is a figure based on the fact that a few volts on its grid are equal in effect to a larger number of volts upon the plate.



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Broadcast Music for Coming Week

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

—Shelley.

By
Bolton
Woods

Haydn's Nature Sketches.

"WITH Verdure Clad" is the air sung by the Angel Gabriel in Haydn's "Creation." The following from the preface to Sir George Macfarren's edition of the oratorio describes the number: "Gabriel, who was the guardian of Paradise in Rabbinical tradition, tells of the adornment of the earth with vegetation; the beautiful air which is an outpouring of the composer's feelings on the contemplation of the sunlit landscape in its many-hued beauty, with the predominance of that warm colour on which the sight loves to repose, fulfils the plan of the first movement of an instrumental sonata, having its first and second subjects, its elaboration of these, and its retrospect of its own earlier portion, and, according to Bombet, it is the third essay of the composer to do justice to the situation, and in this finished form was a special favourite with him." Miss Eva Scott will sing "With Verdure Clad" at 4YA on Tuesday, September 17.

Son of a Butcher.

DVORAK was a Czecho-Slovak, a native of Prague, and perhaps, the greatest composer that Bohemia has produced, so that no master could give a truer note to Slavonic dances than the man who had been initiated into them from the day he began to walk. For Dvorak was of the people of the common class, and had a very hard struggle to make a name for himself. He was not born with a silver spoon in his mouth, and the way of genius is not the path of the peer or the profiteer. These dances are delightful. One can imagine the joyous peasantry of the wild uplands of their country, now happily released from the thrall of Austria, after a period of nearly 400 years, indulging in them with the abandon of free spirits escaped from the gall of servitude. A record of the "Slavonic Dance in G Minor" will be used at 3YA on Thursday, September 19.

A Witty Pole.

THERE is an amusing story told about Paderewski's late arrival at an at-home at which he was the chief performer. As he entered the room he heard the hostess say to a guest, a well-known polo player and an excellent amateur musician, "Oh, Captain, do be a dear kind soul and play us a solo until Paderewski arrives." The great pianist did not make himself known until the captain had finished his solo, then turning to the amateur he graciously congratulated him. "Ah!" said the young man, "it is very kind of you to congratulate me, but nobody is more painfully aware of the fact of how great a difference there is between us." "Oh," replied Paderewski, "the difference

isn't so very great after all—you are a dear soul who plays polo, while I am a poor Pole who plays solo." A record of Paderewski's "Minuet" will be used at 3YA on Friday, September 20.

Unsportsmanlike "Sports."

"TANNHAUSER" is the second of Wagner's great works and was first performed in Dresden in October, 1845. At a performance of the opera in 1861, it is difficult to say whether the performance was on the stage or in the auditorium, for the uproar in the house often drowned the sounds from the stage. The members of the Jockey Club, who objected to the absence of a ballet, armed themselves with shrill whistles, on which they began to blow whenever there was the slightest hint of applause, and the result was that between the efforts of the singers to make themselves heard and of Wagner's friends to applaud, and the shrill whistling of his enemies, there was confusion worse confounded. The famous "Pilgrims' Chorus" from "Tannhauser," will be played by a trombone trio, Messrs. E. Williams, W. Lanham and W. Steere, at 3YA on Monday, September 16.

Finding Himself.

THE famous "Intermezzo" in "Cavalleria Rusticana" is played between the first and second acts of the opera. The curtain remains up during its performance, although the stage is empty of actors. Its beautiful, almost religious calm is very grateful, heard as it is after the storm and stress of the first act, with its exposition of the anger and hate of the hot-blooded Sicilians, whose intrigues bring about the tragedy with which the opera concludes. "Cavalleria Rusticana" is the work by which Mascagni is known throughout the world. In it, in 1890, Mascagni, at the age of twenty-one, found himself, and ever since has been trying, unsuccessfully, to find himself again. The "Intermezzo," played by the famous Milan Symphony Orchestra, will open the dinner session at 3YA on Wednesday, September 18.

Gipsy Blacksmiths.

THE "Anvil Chorus" from "Il Trovatore" (The Troubadour) is always a joy. Full of brilliance and infectious gaiety, it never fails to delight the hearer. The libretto of the opera is considered the acme of absurdity; and the popularity of the opera, notwithstanding, is believed to be entirely due to the almost unbroken melodiousness of Verdi's score. When the curtain rises on Act II, the scene is a campment of gipsies. There is a ruined house at the foot of a mountain in Biscay; the interior partly exposed to view; within a great fire is lighted. Day begins to dawn. The gypsies working at the forge, swing their ham-

mers, and bring them down on clanking metal in rhythm with the music. A record of the "Anvil Chorus," sung by the chorus of the La Scala Opera House, will be used at 3YA on Wednesday, September 18.

"Parsifal" in Brief.

THE story of "Parsifal," as remodelled by Wagner from the old legends, is brief as follows: The Grail has been given into the keeping of Titirel and his knights. They have, too, the holy spear with which the soldier pierced our Lord's side upon the Cross. Titirel has built a great castle to guard the sacred relics against a pagan world, and especially against the magician Klingsor, who, with the help of his Flower Maidens and the arch-enchantress Kundry, endeavours to seduce the knights. Amfortas, son of Titirel, has been overcome by the magician's arts, and has been forced to leave in his hands the sacred spear, with which he himself was sorely wounded, when Klingsor seized it. Nothing can heal the wound save a touch of the spear, and it has been prophesied that only a guileless fool can avail to win it back for them. Parsifal is the guileless knight who in the end overcomes Klingsor's magic, and not only restores the spear to Amfortas's keeping, but wins Kundry to abandon her sorceries and join the service of the Grail, to find death and forgiveness in the last mystic scene when Amfortas is healed, and the radiance of the Grail is shed again over its knights.

The Woolston Band will play selections from Wagner's "Parsifal" at 3YA on Monday, September 16.

A Patriotic Rhapsodist.

IT is interesting to know that Liszt was a nine-year-old boy when he left his native Hungary, and he was nearly thirty when he revisited the place of his birth. Liszt, hearing of the struggles of his country, remembered that he was a Hungarian and was fired with a desire to again see the land of his birth. His reappearance there was the occasion of demonstrations indescribable in their enthusiasm. Liszt was the idol of all Europe, and Hungary was wild with delight in acclaiming her son. After this never-to-be-forgotten visit Liszt turned his attention to the gipsy music of his rediscovered country. Its influence on him was such as to create the great series of "Hungarian Rhapsodies." The "Rhapsodies" are made up of gipsy songs and dances, marvellous little tunes, expressing a great variety of moods which Liszt has woven into a gorgeous musical fabric. They are justly famous. The tenth is notable for the graceful glissando scales, ascending and descending the keyboard. Miss Ena Sneddon will play the tenth "Rhapsody" at 2YA on Thursday, September 19.

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Railway "touring" tickets entitle the holder to unrestricted travel over all Government railway lines:—

Both Islands—for seven weeks,

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Auckland Notes

DECISION has been reached. Auckland is to have a radio exhibition. It will not be the first display of this kind that has been given in the Queen City, for some years ago a radio society now defunct conducted a most successful "small scale" display in the science rooms of the Auckland University College. It will, however, be the first ambitious attempt, and such is the degree of enthusiasm over matters wireless in the city and suburbs, that already the function is assured of success. So far as is known at present, the exhibition is to be entirely a radio one, for the associated dealers who are sponsoring it feel that they can fully equip the big Town Hall with displays, which alone will provide a powerful draw.

Our radio exhibition will eventuate during the last week in October, and will be kept open for three or four days. At the Dunedin and Wellington displays, held a few weeks ago, official opening ceremonies were held during the daytime, and thus the radius of listening to these functions was more confined than it would have been were the ceremonies conducted at night. It should be worth while for the executive of the Auckland exhibition to consider the advisability of an

evening official opening. The wider range of publicity that can thus be secured is well worth a few hours' postponement. The southern stations would have better chance of broadcasting important speeches by night, and there would be an infinitely bigger audience to hear them.

The advantages of holding an exhibition so late in the year are apparent. The very latest models will be available for display, and the Christmas radio trade, which this year should be a record one, will receive a splendid boost. It is known that the Broadcasting Company will render every possible help, and listeners and local radio societies can be relied on to put their shoulders to the wheel. For Auckland is out to make her radio exhibition a record one and to eclipse even Wellington's fine lead.

[The official opening of the Wellington Exhibition was held at 8 p.m.—Ed.]

QUITE a wrong impression—the idea that a radio set may be a menace to life and property—has gained some ground locally through incomplete explanations of the cause of a fatality through electrocution. A local resident was killed by an electric shock when affixing an earth wire for a radio set; but, and this is the essential point, he suffered death from shock through a faulty flex used on an elec-

tric lamp which was giving him illumination under the floor of his house. This electrical connection had in itself nothing whatever to do with a receiver. In fact, the receiver which the unfortunate gentleman was making preparations for had not at the time been delivered. The public generally should be made aware that the likelihood of accident from electrical connections for radio sets is infinitesimal compared with the risks run in using an electric iron.

BATTERY-OPERATED sets are selling for a song these days, for the public is quick to recognise the added advantages of the electric receiver, for which there is now a most heartening demand. Shrewd investors, however, find the older models, with eliminators and trickle chargers, render most efficient service for a remarkably low price. There should be little excuse now on the score of cost for the absence of a wireless set in the home.

OUR dinner music session is now in its first week of presentation, but already it has won a wide popularity. On all hands the writer has heard commendation of the action of the Broadcasting Company in instituting this service, and also, incidentally, in thus providing an extra hour of broadcasting per day. This is a "service point" that has not yet fully dawned upon listeners.

BEING anxious to hear accounts of the New Zealand boxing championships at Greymouth, the writer tuned in Christchurch last Saturday evening and obtained excellent reception. Tuning to 1YA for an instant, he found the local station rebroadcasting 3YA to such splendid advantage that not a word of the ringside descriptions in the West Coast town was indistinct. It is doubtful if Christchurch has ever been rebroadcast better in the north than it was on Saturday evening.

"Past, Present, and Future"

"To Sartor and his magic carpet, there was no there and then but all was here and now."

—Carlyle.

IN the last fifty years there have been many scientific discoveries most of which have been the result of slow and regular development, but there is one exception, that of wireless. It sprang into being with a suddenness which attracted to it the attention of the world. Within the space of thirty years it has been developed to unconceived bounds. It is not long ago that Hertz and Marconi were investigating something new and intangible. These pioneers of science, like all men of genius, were striving for the realisation of their ideal—perfection of communication. They strove to give form to what was little more than a dream.

Scuffed at by their fellow scientists, designated by the world as maniacs, and in the face of baffling opposition these pioneers of wireless bequeathed to the world an unrivalled heritage. The struggles for recognition of the

inventors of radio would read like a novel. Then it dawned on the commercial world that here was a means of communication hitherto undreamed of. Before this the employment of the air for communication was regarded as impossible. The pioneer of a science usually builds a firm foundation and leaves in the hands of another the perfection of his discovery. Not so with radio. It has come very near maturity within the last thirty years.

Radio makes nothing of space and time. Distance is an obstacle easily overcome. Commercially it is invaluable. It has saved countless lives and has made travel by sea safe. Almost every day we hear of some new use to which it has been put. It is teacher, doctor, and entertainer, and to those who are away from civilisation and its comforts, a receiving set is no little consolation. In hospitals it has done wonderful work. Those who are in pain are grateful at having their minds distracted from the thoughts of an approaching operation. Those who are confined to a bed for the whole of their lives find at last something to make life worth living. We may be amused to think of the uncivilised Indians, as described in Mr. J. Curle's new book, listening with mouths agape to the latest "hits" broadcast from an up-to-date American studio. Wireless will never become a thing of the past until it has been displaced by a discovery that offers a better means of communication, and that is unlikely. In certain directions wireless can be improved. It will never be totally displaced. With the perfection of radiovision there will be a means of communication not even foreseen by that prince of prophets, Jules Verne. It is no exaggeration to say that one day those in New Zealand will see and speak to their dear ones abroad, for television is a child of radio.

The possibilities of radiovision, which is slowly coming into being, are without number. Space and time, man's greatest enemies, have been overcome. We live in a scientific age, and this century has been a prolific one in both arts and sciences.

WIRELESS of to-morrow! Who can tell? The world is becoming more and more a world of science and the "machine age," as foretold by Wells, may be a thing of the near future. Telephone communication from one end of the world to the other has already been accomplished; soon it will appear commonplace, and new phenomena of communication will fill the columns of our newspapers.

ON the shelf of every Radio Listener should be found the

RADIO LISTENERS' GUIDE

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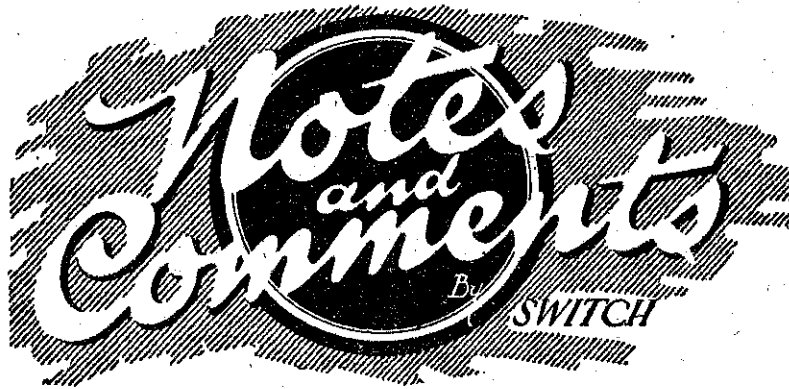
"R."

BEGINNERS are often perturbed over the variation of volume in long-distance broadcast reception. The Australians and the Japanese stations will come through with extraordinary loudness on one evening and not infrequently on the following evening over-sea reception will be lamentably weak. Occasions there are when even experienced listeners begin to have suspicions about the efficiency of their valves, batteries, or a.c. electrical supply. Reception of long-distance stations usually increases as the night proceeds, but sometimes, through some obscure cause, the reverse takes place.

ONE of the best broadcasts yet heard from Australia was that of the speeches at the Chamber of Manufacturers' dinner by 2FC, Sydney, recently. The lengthy speech by Mr. Bruce, Prime Minister of the Commonwealth, came through, word-perfect, from start to finish with great volume. Strangely enough there is seldom any interference from howling valves on 2FC, Sydney. 2BL and one or two of the minor Sydney stations generally obtain the patronage of the howlers.

THE Australian listener who signs his letter "DX Fan," writes to the Sydney "Wireless Weekly" as follows: "I am sending you a list of stations received on my one-valve set during the past two years or so:—N.S.W.: 2FC, 2BL, 2GB, 2UE, 2KY, 2UW, 2MK, 2HD, 2SX, 2QJ, 2ME, 2AG, 2DG, 2AD, 2AR. Vic.: 3LO, 3AR, 3UZ, 3DB, 3BY, 3GT, 3CB, 3TM, 3ML, 3RI, 3EF. Qld.: 4QG, 4GR. Tas.: 7ZL. N.Z.: 1YA, 2YA, 3YA, 4YA. Java: JFC. S.A.: 5CL, 5DN, 5KA. Philippines: KZRM, KZRQ, KZKZ, KZIB. India: 7CA, 7BY. Japan: JOAK, JOHK, JOIK. U.S.A.: KDKA, KFI, KGO, KOA, WBZ, WGY, WBAF, WJZ, WGN, WLJB, KNX, WREN, KSL, KMOX, KLX, KNRC. Hawaii: KGU. South Africa: WAMG, JB. A total of seventy stations not including many more stations, and others not yet recognised. There is no freak circuit idea, it is merely a slightly varied Reinartz type with ninety volts on the plate, and installed under good conditions. Good speaker strength is obtained from all local and, often, inter-State, rest on 'phones. Many of the long-distance stations are only audible occasionally, but, even so, I think it is a good performance for one valve. Let us hope to hear from any one-valve hams who have done as well or better."

IT will be noted that "DX Fan," in the above list of stations he has received on his one-valve set, includes the four New Zealand "YA" stations. Of course, there are bound to be a number of doubting Thomases, and possibly "DX Fan" showed a good deal of discretion in not publishing his name and full address; otherwise a pilgrimage might have overwhelmed him. "Switch," for one, would like to see and hear a one-valve set in Australia which can bring in eight Japanese broadcast stations, sixteen Americans, one Hawaiian, and two South Africans. The editor of the Sydney "Wireless Weekly" should send a representative to see, hear, and photograph this "wonder" set. Stanmore, where this listener resides, is a suburb of Sydney, about 3½ miles from the G.P.O. Where is the journalistic enterprise of the "Wireless Weekly"?



"**SWITCH**" has been asked to publish his assessment of the volume with which he receives the various Australian stations, "as listeners all over the country find a special interest in comparing the published figures with their own experience." Matured listeners are well aware that individual stations differ in volume on various nights, and play a kind of see-saw with each other. For instance, "A" may come in much louder than "B" for two or three nights in succession, but on the next two or three nights the performance is reversed.

HOWEVER, in compliance with the request, "Switch" carefully checked up the various Australian stations, and has arrived at a generalisation which may afford many listeners material for interesting comparison. Allotting 10 points for the greatest volume, "Switch" awards 2FC, Sydney, the full 10 points. Next comes 2BL, Sydney, points; 3AR, Melbourne, 6 to 7 points; with 9 points; 3LO, Melbourne, 8 4QG, Brisbane, 5½ points; 2GB, Sydney, 4 points; 2UE, Sydney, 3 points; 7ZL, Hobart, 3 points; 3UZ, Melbourne, 3 points; 5CL, Adelaide (after 11 p.m.), 2½ points; 2KY, Sydney, 1 point; 3DB, Melbourne, 1 point. A friend has drawn my attention to the change in the frequency of 2FC, Sydney. This station has moved to a lower frequency (longer wavelength), as much as two degrees on the average turning dial.

A JOHNSONVILLE listener has asked "Switch" to publish his suggestion that "on no occasion should an item by the 2YA Studio Orchestra be followed by a record of an orchestral item, as happened recently." He pointed out that a vocal or any other type of record would be advisable for the purpose.

"**SWITCH**" was requested to inspect an "earth" which seemed to be unsatisfactory. Oh, yes, the earth-wire was soldered on to a water-pipe and a good thick one at that, the writer was informed. An examination, however, showed that the alleged "water-pipe" was in reality a gas-pipe! As the earthing to a gas-pipe is a source of a certain amount of danger and as the joints are unfavourable for the passage of electricity fed from the earth wire, the innocent listener was promptly advised to try another "earth." As the water-pipe was too far away, a couple of kerosene tins filled with wet charcoal and buried with 3 feet of earth above them were substituted, with complete success.

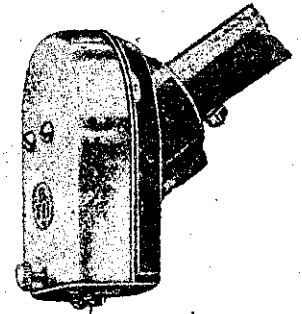
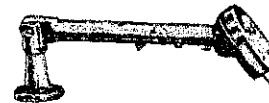
AN Eastbourne resident, who is a confirmed admirer of Japanese music, almost shed tears when telling

the legality of the circuit before he commenced building his set. Anyone in doubt about this matter should take steps to avoid having to pull his set to pieces and to pay a fine in the Magistrate's Court.

THE fact that in Auckland a young would-be amateur transmitter, who had no license for transmitting, was located through the use of a portable set and loop antenna and was brought before the Magistrate's Court recently should act as a warning to all breakers of the radio regulations. In Wellington on Wednesday evenings when 2YA is silent the air is full of the shrieks and moans from "howling valves." Listening to 2BL, Sydney, on a recent Wednesday night, "Switch" encountered the shriek of a howling valve which "stayed put" for nearly three-quarters of an hour. The operator of the set could have been easily located with a portable set and loop.

A VISITOR from Wanganui informed "Switch" that the local Public Hospital is equipped with wireless receiving apparatus so that 90 per cent. of the patients are enabled to enjoy broadcast listening. 2YA comes in with excellent volume at Wanganui, and the patients at the hospital derive great benefit from listening in. The mental diversion occasioned by broadcast listening works wonders in restoring patients to health, and wireless equipments should be in every hospital throughout the country.

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Next Week's Features

1YA Features

THE church service on Sunday evening will be relayed from the Church of Christ, the preacher being Pastor Campbell. Following the church service a studio concert will be presented, including soprano solos by Miss R. McCullay, who will sing "Believe Me if all those Endearing Young Charms" and "Oft in the Stilly Night," baritone solos by Mr. Clinton Williams, who will sing "Like as the Hart Desireth," by Allitson, and contralto solos by Miss Nellie Lingard, who will include Handel's "Verdi Prati" in her items.

AT 7.40 p.m. on Tuesday, Madame Edith Baird will continue a series of talks on "Artistic Physical Development," and the studio programme will feature the presentation by the Olympians Quartet of the song cycle "In a Persian Garden." Messrs. Lambert Harvey and Barrie Coney will combine in the singing of the well-known operatic duet, "In This Solemn Hour" from Verdi's opera, and the concluding portion of the evening will be given over to a gramophone lecture recital by Mr. Karl Atkinson, who has taken as his subject, "Fairies in Music." The recital is of a most unusual type, and promises to be of considerable interest. Mr. A. B. Chappell, M.A., will present a topical talk at 9.15, and pianoforte solos will be given by Miss Theo Halpin, who will include in her items Albeniz's "Seguidillas."

WEDNESDAY'S news session will see a further talk by Madame Mabel Milne on "Health and Diet," and the evening programme will be contributed to in the main by the Auckland Artillery Band and assisting artists. The band items will include the overture "Light Cavalry," by Suppe, and the novelty selection "Pop Goes the Weasel!" Selections from "The Maid of the Mountains" will also be included, and further items will be given by the

band, "In a Persian Market," by Ketelbey and "Fighting Mac," arranged by Rimmer. A new combination of sketch artists, Mrs. Betty Bell and Mr. Dan Flood, will present the sketch, "The Pact," and a humorous item "Where Were You Last Night?" Mr. John Bree, the well-known Auckland baritone, will sing Slater's "From Oberon in Fairyland" and "For You Alone," by Gheel. A cornet duet by Bandsmen

ing play in the concert session with Conan Doyle's "Waterloo," which was presented at 4YA some months ago by Major Lampen with outstanding success. The story of "Waterloo" centres round the character of one of Wellington's old soldiers, Corporal Brewster, whose reminiscences of the various battles and events of Waterloo's day prove most amusing. At the same time the play, generally speaking, is serious

tre in the acoustic properties of the caves.

A PROGRAMME of a light nature has been arranged for Saturday, when following the Rugby football relay from Eden Park at 3 p.m. selections of the latest popular vocal hits by the Snappy Three and popular ballads by Sergeant W. H. Hallahan will be presented. Contralto solos will be given by Miss Phyllis Hazel, who will sing, "Smilin' Through" by Penn and "A Summer Night" by Goring Thomas. Humorous items by Mr. Dan Flood and light instrumental numbers by the orchestra will contribute to what should prove a popular week-end entertainment.

2YA Features

SUNDAY'S church service will be relayed from the Vivian Street Church, the preacher being Pastor W. B. Carpenter, following which at 8.15 the Port Nicholson Silver Band recital will be relayed from the Grand Opera House.

MR A. E. WILSON, of the Tourist Department, will lecture at 7.40 p.m. on Monday, taking as his subject, "Tourist and Holiday Resorts." The evening programme will include concerted and solo vocal items by the Etude Quartet, a concerted number being "The Huntsmen's Chorus," from "Der Freischütz," and duets will be rendered by Mrs. Ray Kemp and Mr. Will Hancock. Instrumental selections by the orchestra will include the "Adagio Movement" from Beethoven's "Moonlight Sonata," and numbers 2 and 7 of Brahms's "Hungarian Dances." Mr. Cedric Gardiner will recite Paterson's "Rio Grande" and a humorous selection entitled "Peter."

A REPRESENTATIVE of the Agricultural Department will continue a series of lectures at 7.40 p.m. on Tuesday, "For the Man on the Land." Popular selections typify the evening programme, which will be contributed to by Messrs. Edward Silver and Claude Hoare in the latest popular songs and jazz piano numbers. Orchestral items will include a selection of Haydn Wood's songs, and Messrs.

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Mrs. Jellard, contralto.
A well-known soloist heard regularly from 1YA.
—S. P. Andrew, photo.



Mr. Eric Bell, pianist. One of Auckland's leading pianists and accompanists.
—S. P. Andrew, photo.

K. Smith and L. Mackay, "Besses o' th' Barn," will also be rendered, and Mrs. N. V. Le Petit will contribute soprano solos.

AT 7.40 p.m. on Thursday, Mr. N. M. Richmond, B.A., will continue the W.E.A. series of talks with the subject, "The Modern Age as the Modern Woman Sees It." The Auckland Comedy Players will provide a very interest-

ing character, and, handled by the Auckland Comedy Players, should be an exceptionally fine offering to listeners. Mr. J. F. Montague on the same programme, will recite "The Shooting of Dan McGrew," the popular dramatic recital by Robert Service. The Studio Orchestra will include in their items selections by Bendel, "By the Lake of Geneva," a descriptive suite. They will also play three old songs, "Sally in Our Alley," "Long, Long, Ago" and "Turkey in the Straw" and at the conclusion of the programme selections from "The Mikado" will be presented. Dance music will be continued until 11 p.m.

A SERIES of talks on Rugby football will be continued by Mr. Frank Sutherland at 7 p.m. on Friday and at 7.40 Mr. W. G. E. Wheeler will speak on "Esperanto." At 8 o'clock a concert will be relayed from Messrs. Lewis Eady's Hall, which will continue until 8.30, when the long promised Wai-tomo Caves Concert will commence. The contributing artists to the Caves Concert will be Miss Millicent O'Grady (soprano), Miss Nina Scott (elocutionist), Mr. Owen Pritchard (humorist), Mr. Len Barnes (baritone) and Mr. Cyril Towsey, the studio pianist. The evening relay from this well-known tourist resort will doubtless create great interest with listeners, as apart from the excellence of the concert arranged, much interest will cen-

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Brown and Langtry will render as a flute and clarinet duet, "The Mad Scene" from "Lucia di Lammermoor." Mr. Val Jones (baritone) is to sing popular ballads by Herman Lohr, and humorous elocutionary numbers will be given by Mr. Bert Thompson, who will also sing a selection from "The Show Boat," "Ole Man River," "Poor Butterfly," from "The Big Show," "Only a Rose," from "The Vagabond King," and "Farewell," from "The Maid of the Mountains," are three musical comedy selections to be sung as soprano solos by Miss Anne Davies.

THOMAS Bracken and his Works will be the subject of a lectureette by Mr. G. W. Otterson on Thursday, and the following concert has been specially arranged by the Wellington Commercial Travellers and Warehousemen's Association Concert Party. This combination is a live musical body, and can be depended upon to provide listeners with an evening of more than usual interest. Orchestral selections will include the overture "Maritana" by Wallace, selections from "La Boheme," by Puccini, and selections from the musical comedy "You're in Love," by Friml. Mrs. J. F. Woodward will sing a soprano solo, "Invitation," with orchestral accompaniment, and Miss Joyce Downing will render pianoforte solos, "Mother o' Mine" and "Devonshire Cream and Cider" are popular ballads to be sung by Mr. L. J. Bryan (baritone), and Mr. Alf. Mazengarb will provide selections with original humour.

TRAVELLING Home Across Canada is the subject of a travel talk to be given by Mr. V. Hutchinson on Friday at 7.40, and the ensuing musical programme will feature the Ariel Singers in grand opera and musical comedy selections. Mr. W. Roy Hill (tenor) will sing "Questa o Quella," from Verdi's "Rigoletto," and Miss Jeanette Briggs and Miss Ngaire Coster will present excerpts from "The Lily of Killarney" and "Rinaldo" (Handel). Humorous sketches, including a selection from "The Foiled Fiend" by Coke are to be played by Madame Eugenie Dennis and partner, and Mr. J. M. Caldwell (bass) will sing the "Vulcan's Song," from "Philemon et Baucis," and selections from Mozart's "Il Seraglio." Orchestral selections of particular interest will include the overture to "Martha," selections from Bizet's "Carmen," excerpts from "The Lily of Killarney," and the "Faust" ballet music by Gounod.

ON Saturday afternoon Mr. Ohas. Lemberg will conduct the usual Rugby football relay from Athletic Park, and a lecturette will be given by Mr. A. W. Free at 7.40 on "John Howard, the Pioneer." Saturday's vaudeville programme will be one of the finest to be presented for some time, and will include Crowther's arrangement of "Sonny Boy," to be sung by the Melodie Four, and this combination will also sing as concerted numbers

"Doan Yer Cry, Ma Honey" and "Peter the Cat." Solos will be rendered by members of the quartet, particular interest centring in Mr. R. S. Allwright's presentation of Molloy's "Merry Monk." A ventriloquist turn has been arranged by Mr. Will Haigh, which should prove of more than usual interest, and Mrs. Mildred Kenny's Steel Guitar Trio have arranged Hawaiian music which will include "Kamiki March." Comic songs and whistling solos will be given by Mrs. Winifred Birch-Johnston, who is a well-known popular entertainer throughout the Taranaki and Wairarapa districts. Mrs. Birch-Johnston will include in her items "Delaney's Donkey" and "C'est Vous," by Green. Instrumental selections of a light nature will also be rendered by the orchestra.

3YA Features

ON Sunday 3YA will relay the evening service from Holy Trinity Church, Avonside, the preacher being the Rev. H. W. Smith (hospital chaplain), and the organist, Mr. Arthur Lilley, A.R.C.O. Preceding the church service and at 7 p.m. and the rebroadcast of 2YA Wellington at 8.15 p.m. a short studio programme will be presented which is to include tenor solos by Mr. C. R. Williamson and contralto solos by Miss Marian Woodhouse.

A LECTURETTE on "Esperanto Grammar" will be given by Mr. N. M. Bell, M.A., during Monday's news session, and the brass band programme will be contributed to by the Woolston Band under Mr. R. J. Estall. The band's items will include "The Washington Greys" march, a cornet solo by Bandsman Ohlson, "Nightingale Polka," and a selection from Wagner's "Parsifal." The Studio Trio will provide three numbers from Bizet's "Carmen," the "March and Habanera," "Toreador's Song," and "Gypsy Song," and Miss Alice Vincent will sing contralto solos. Mr. Robert Samson (baritone) will present "The Devout Lover" and a number by Humphries, "Off to Market, Johnny," whilst elocutionary items will be given by Mr. J. J. Flewellyn, who is to contribute selections from "David Copperfield" and "Pickwick Papers."

OUTSTANDING on Wednesday evening's programme will be a rendition of German's "Henry VIII Dances" by the Bohemian Quintet led by Mr. Harold Beck. These three dances are probably the most popular instrumental combinations of German's and typify the old English dances of the period. Operatic selections will include "The Flower Song" from Gounod's "Faust," the "Berceuse" from Godard's "Joceelyn," a selection from Gluck's "Paride ed Elena," and Mr. Syd Andrews (tenor) will sing "The Song of the Toreador," from "Carmen." Mr. Cyril Rishworth will sing "Less than the Dust," from Woodforde Finden's "Indian Love Lyrics," and a selection by Cadman

"From the Land of Sky Blue Water," whilst Miss Thelma Ayres is to sing "A Tender Shadow," from Meyerbeer's "Dinorah."

AT 7.30 on Thursday Mr. J. D. Carolin will give a talk arranged by the 3YA Primary Productions Committee on "Seasonal Orchard Work from October Onwards."

The evening session will be specially notable in as much as Signor Oddone Savini will present the violin solos "Romanza" from Greig's Sonata, op. 45, Debussy's "En Bateau," Serenade, and Hubay's "Souls as fenetre." Signor Savini is a native of Florence; he has played under the conductorship of Mascagni, and has had a wide experience abroad. His violin selections will be an item of outstanding interest.

Vocal items will be rendered by Mrs. J. B. Russell's Glee Party, who will sing part songs by Elgar and Franklyn Harvey. This combination will also present unaccompanied madrigals, "Come Away, Sweet Love," and "How Beautiful is Night." Mr. Fred A. Bullock will present baritone solos, also one of Quilter's Elizabethan lyrics. Tenor solos will be rendered by Mr. George Fawcett, and the Studio Trio will play Schubert's "Ballet Music" and "Mazurka," by Delibes, in their selections for the evening.

A FURTHER lecture arranged by the 3YA Primary Productions Committee will be given on Friday evening at 7.30 by Dr. Chas. Chilton, who, in a short talk, will review a number of articles which have appeared in the August number of the New Zealand Journal of Agriculture. The evening programme will be of a popular nature and will be mainly in the hands of the Beckenham Quartet and the Bailey-Marston Dance Orchestra. Concerted numbers will include "The Soldier's Farewell," "Lovely Night," and a medley by Gracy. Humorous patter will be given by Mr. L. T. J. Ryan, who is to present two interesting and original items, "Meet the Wife" and "Toasts and Toasters," the programme being continued until 11 p.m. with dance selections.

ON Saturday 3YA will rebroadcast 2YA Wellington's vaudeville concert, which will be contributed to by the Melodie Four and Mrs. Mildred Kenny's Steel Guitar Trio, while Mrs. Birch-Johnston will be heard in whistling and novelty solos. A description of the Rugby football match, Canterbury v. South Canterbury, will be relayed from Lancaster Park at 2.45 p.m.

4YA Features

THE relay of the evening church service on Sunday will be from the Hanover Street Baptist Church, the Rev. E. L. Tuckwell preaching. Following the church service, the concert to be given at His Majesty's Theatre by the Dunedin Tramways Band under the conductorship of Mr. C. Morgan will be broadcast.

PROMINENT on Monday evening's session will be items by the Majors Quartet composed by Sir Charles Stanford. Mr. T. J. Kirk-Burnand will give a short talk on "Sir Charles

Stanford and His Works" prior to the vocal selections, the numbers being of an Irish nature, as might be expected from the composer's Irish nationality. The Winkell-Lampen Radio Players will present two sketches, one of which is of more than usual interest, entitled "Dining Out," by Melford. The sketch deals with the ordeal of a man and his wife endeavouring to dress for a dinner which, unknown to them, had already taken place on the previous day. The consequent humorous situations can be well appreciated, and the sketch will be well handled by Major Lampen and Miss Winkell. The 4YA Broadcasting Trio will play selections from Verdi's "Aida" and "Song to the Evening Star" by Wagner, whilst vocal solo items will be rendered by members of the quartet.

ON Wednesday evening the popular Four Aces Concert Party will be on the air with sketches, concerted items, popular vocal hits and vocal and instrumental solos. The Four Aces are now established favourites with Dunedin Radio audiences, and they will be assured of a warm welcome with this programme.

ON Friday at 7.30 Mr. H. Greenwood, the Athenaeum Librarian, will give a book review, and in the evening concert session the Harmonists Quartet will present Liza Lehmann's song cycle "The Pagoda of Flowers." In addition, this quartet are to sing "The Sea Hath its Pearls," by Pinsuti, and "The Long Day Closes," by Sullivan. Mr. Carl Moller will make a welcome reappearance, after a lengthy absence from the microphone, with humorous items, and the 4YA Broadcasting Trio will play "Valse of the Flowers," by Tschalkowsky, and Mr. Frank Parsons will render as a violin solo Wieniawski's "Scherzo."



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Sunday, September 15

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, SEPTEMBER 15.

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.30 : Close down.
 5.0 : Children's session conducted by Uncle Leo.
 5.55 : Relay of service from Church of Christ. Preacher: Pastor Campbell.
 8.30 (approx.) : Studio concert:
 Budapest Philharmonic Orchestra, "Hungarian Rhapsody No. 1 in F" (Liszt) (Columbia Record 02728).
 Soprano—Miss R. McCullay, (a) "Believe Me if all Those Endearing Young Charms" (Moore); (b) "Oft in the Still Night" (trdtl.)
 Baritone—Mr. Clinton Williams, "Like as the Heart Desireth" (Allitsen).
 Viola—Lionel Tertis, "Minnelied" (Brahms) (Columbia Record 03631).
 Contralto—Miss Nellie Lingard, (a) "The King of Love My Shepherd Is" (Gounod); (b) "To the Angels" (Zardo).
 Band of the Garde Republicaine de France, "Carmen" Entr'acte, (Bizet) (Columbia Record 02747).
 Soprano—Miss R. McCullay, "By the Waters of Galilee" (Lindsay).
 Vocal quartet—Irish Male Quartet, "Faith of Our Fathers" (Regal Record G20431).
 Organ—Quentin MacLean, (a) "Prelude"; (b) "Doge's March" ("Merchant of Venice" Suite) (Rosse), (Columbia Record 02797).
 Baritone—Mr. Clinton Williams, (a) "There is a Green Hill Far Away" (Gounod); (b) "When I Survey the Wondrous Cross" (Pettman).
 Contralto—Miss N. Lingard, "Verdi Prati" ("Alcina") (Handel).
 Band of the Royal Air Force, (a) "Our Director" March (Bigelow); (b) "Repas Band March" (Sweeley) (Columbia Record 01354).
 9.30 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, SEPTEMBER 15.

- 3.0 : Afternoon session—selected studio items.
 4.30 : Close down.
 5.0 : Children's Sunday service, conducted by Uncle George.
 7.0 : Relay of service from Vivian Street Church of Christ. Preacher, Pastor W. G. Carpenter. Organist, Mrs. L. Sincok. Choirmaster, Mr. W. J. Mason.
 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 15.

- 3.0 : Afternoon session—selected studio items.
 5.30 : Children's song service.
 6.15 : Hymn chimes from studio.
 6.30 : Studio programme:
 Royal Albert Hall Orchestra, "Song of Night" (Elgar) (H.M.V. D1236).
 6.34 : Tenor—Mr. C. R. Williamson, "Love's Garden of Roses" (Haydn Wood).
 6.38 : Contralto—Miss Marian Woodhouse, (a) "Life" (Austin); (b) "Oh, for a Burst of Song" (Allitsen).
 6.44 : Royal Albert Hall Orchestra, "Song of Morning" (Elgar) (H.M.V. D1236).
 6.48 : Tenor—Mr. C. R. Williamson, (a) "Bird Songs at Eventide" (Coates); (b) "I Heard You Singing" (Coates).
 6.54 : Contralto—Miss Marian Woodhouse, (a) "Bright is the Ring of Words" (Carey); (b) "The Lord is My Light" (Allitsen).
 7.0 : Relay of service from Holy Trinity Church, Avonside: Preacher, Rev. H. W. Smith (Hospital Chaplain). Organist and Musical Director, Mr. Arthur Lilley, A.R.C.O.
 8.15 : (approx.) Rebroadcast of 2YA, Wellington (Relay from Grand Opera House, Wellington, of recital by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, SEPTEMBER 15.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.30 : Close down.
 5.30 : Children's song service, conducted by Big Brother Bill.
 6.30 : Relay of service from Hanover Street Baptist Church. Preacher, Rev. E. S. Tuckwell, B.A. Organist, Mr. Upton Harvey. Choirmaster, Mr. H. P. Desmoullins.
 8.5 : (approx.)—Relay from His Majesty's Theatre of concert by the Dunedin Tramways Band, under the conductorship of Mr. C. Morgan.
 9.15 : Close down.

Monday, September 16

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, SEPTEMBER 16

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, SEPTEMBER 16.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 4.30 and 4.50 : Sports results to hand.
 5.0 : Children's session, conducted by Uncle Jeff.
 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. (02694/5).
 6.12 : Tacet.
 6.15 : Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen) (02622).
 Cello—Gaspar Cassado, "Melodie Arabe" (Glazounov) (03579).
 New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates) (02591).
 6.26 : Tacet.
 6.30 : 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 (02590/1).
 6.42 : Tacet.
 6.45 : J. H. Squire's Celeste Octet, "Memories of Mendelssohn" (arrgd. Sear) (02838).
 Columbia Symphony Orchestra, "Bridal Procession" (Grieg) (02622).
 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, "Undine" (Lortzing).
 8.9 : Soprano—Miss Gretta Stark, "Spring" (Henschel).
 8.13 : Pianoforte—Miss Gladys Morgan, (a) "Carillon" (O'Neill); (b) "Impromptu in G Flat" (Chopin).
 8.20 : Vocal duet—Messrs. Will Hancock and Ray Kemp, "Flow Gently, Deva" (Parry).
 8.24 : Instrumental—Orchestra, "Norwegian Rhapsody" (Svendsen).
 8.32 : Recital—Mr. Cedric Gardiner, "Rio Grande" (Patterson).
 8.39 : Contralto—Mrs. Ray Kemp, "Sunshine and Rain" (Lohr).
 8.43 : Violin—Jascha Heifetz, "Zapateado" (Sarasate) (H.M.V. DB1048).
 8.47 : Baritone—Mr. Ray Kemp, "Brian of Glenaar" (Graham).
 8.51 : Instrumental—Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov): (1) Alborado; (2) Barlazoni; (3) Alborado.
 8.59 : Weather report.
 9.1 : Soprano—Miss Gretta Stark, "Down in the Forest" (Landon Ronald).
 9.5 : Vocal duet—Mrs. Ray Kemp and Mr. Will Hancock, "Glou Glou" ("La Mascotte") (Audran) (by request).
 9.9 : Instrumental—Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov):
 (1) Scena conto gitano; (2) Fandango.
 9.17 : Humour—Mr. Cedric Gardiner, "Peter" (Anon).
 9.24 : Cello and organ—W. H. Squire, (a) "Ave Verum" (Mozart, arrgd. Squire); (b) "Sarabande" (Sulzer) (Columbia 04283).
 9.32 : Tenor—Mr. Will Hancock, "One Hour" (Longstaffe).
 9.36 : Instrumental—Orchestra, "Moonlight Sonata—Adagio" (Beethoven).
 9.44 : Baritone—Mr. Ray Kemp, "The Song of the Waggoner" (Breville Smith).
 9.48 : Vocal quartet—Etude Quartet, "Huntsmen's Chorus" ("Der Freischütz") (Weber).
 9.52 : Dances—Orchestra, "Hungarian Dances, Nos. 2 and 7" (Brahms).
 10.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, SEPTEMBER 16.

- 3.0 : Afternoon session—Selected gramophone items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 5.0 : Children's session, conducted by "Scatterjoy."
 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) (B2903).
 Waltz—International Concert Orchestra, "Gold and Silver" (Lehar) (Zonophone EF22).
 Instrumental—Victor Olof Sextet, "Cherry Ripe" (Scott) (B2697).
 6.12 : Tacet.
 6.15 : Waltz—International Concert Orchestra, "The Spanish Dancer" (Di Chiara) (Zonophone EF15).

Week-all Stations-to Sep. 22

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Instrumental—Victor Concert Orchestra, "Romance" (Tschalkowsky) (Zonophone EF7).

Violin—Isolde Menges, "Salut D'Amour" (Elgar) (D1313).

6.26: Tacet.

6.30: Instrumental—Piccadilly Orchestra, (a) "Friend o' Mine" (Sanderson); (b) "None but the Weary Heart" (Tschalkowsky) (B2857).
Orchestra and grand organ—International Concert Orchestra, "My Treasure" (Becucl) (Zonophone EF15).

Instrumental—Victor Olof Sextet, "Minuet" (Boccherini) (B2697).

6.42: Tacet.

6.45: Instrumental—Jack Hylton's Orchestra, "Melodious Memories" (Finck) (C1575).

Waltz—International Novelty Orchestra, "Emperor" (Strauss) (Zonophone EF22).

6.57: Tacet.

7.0: News session.

7.30: Talk—Mr. N. M. Bell, M.A., B.D., "Esperanto Grammar."

8.0: Chimes.

Studio concert by the Woolston Band, under the conductorship of Mr. R. J. Estall, and assisting artists:

8.1: Overture—Band, "Zampa" (Herold).

8.9: Soprano—Miss Viola Clare, "May Dew" (Sterndale Bennett).

8.13: Baritone—Mr. Robt. Samson, "The Devout Lover" (White).

8.17: March—Band, "Washington Greys" (Grafulla).

8.21: Contralto—Miss Alice Vinsen, "Three Fishers" (Hullah).

8.25: Shanties—Jno. Goss and Cathedral Quartet, (a) "Shenandoah" (b) "Rio Grande"; (c) "Billie Boy" (arrgd. Terry) (H.M.V. B2646).

8.31: Instrumental—Studio Trio, three numbers from "Carmen" (Bizet): (1) March and Habanera; (2) Toreador's Song; (3) Gipsy Song.

8.38: Recital—Mr. J. J. Flewellyn, "Levinsky Buys a Car" (Anon).

8.43: Cornet solo with band accompaniment—Bandsman R. Ohlson, "Night-ingle Polka" (Moss).

8.48: Tenor—Mr. J. Hinton, "Mountain Lovers" (Squire).

8.52: Selection—Band, "Parsifal" (Wagner).

9.4: Weather report.

9.6: Soprano—Miss Viola Clare, (a) "Sympathy" (Marshall); (b) "Take the Laughter" (MacFadyen).

9.12: Male quartet—The Rounders, "Dream River" (Brown) (H.M.V. EA384).

9.15: Instrumental—Studio Trio, (a) "Intermezzo" (Mathias); (b) "Scherzo" (Gade).

9.23: Baritone—Mr. Robt. Samson, (a) "My Friend" (Behrend); (b) "Off to Market" (Humphries).

9.29: Contralto—Miss Alice Vinsen, (a) "A Heap of Rose Leaves" (Willeby); "Sink, Red Sun" (Del Riego).

9.35: Serenade—Band, "In this Hour of Softened Splendour" (Pinsuti-Smith).

9.40: Recitals—Mr. J. J. Flewellyn, (a) "Wilkins Micawber's Advice to Young David Copperfield" ("David Copperfield") (Dickens); (b) "Tony Weller's Advice to His Son Sam" ("Pickwick Papers") (Dickens).

9.45: Intermezzo—Band, "Bells at Sunset" (Mackenzie).

Trombone trio—Messrs. E. Williams, W. Lanham and W. Steere, "Pilgrims' Chorus" ("Tannhauser") (Wagner).

9.56: Tenor—Mr. Jas. Hinton, (a) "Dolorosa" (Montague Phillips); (b) "Passing By" (Purcell).

10.1: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, SEPTEMBER 16.

3.0: Town Hall chimes.

3.1: Selected gramophone items.

4.25: Sports results to hand.

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

7.0: News session.

8.0: Town Hall chimes.

8.1: Overture—La Scala Orchestra, "The Secret of Suzanna" (Wolf) (H.M.V. D1488).

8.5: Lecture—Mr. T. J. Kirk-Burnnand, "Sir Charles Stanford and His Works."

8.13: Vocal quartets—The Majors, (a) "How Dear to Me the Hour" (Stanford); (b) "Oh for the Swords" (Stanford).

8.21: Instrumental—4YA Broadcasting Trio, (a) "Song to the Evening Star" (Wagner); (b) "Serenade" (Drigo).

8.27: Baritone—Mr. L. M. Cachemaille, "O Lovely Night" (Landon Ronald).

8.31: Pianoforte—Mrs. Ernest Drake, "Wedding Day" (Grieg).

8.34: Sketch by the Radio Players, "A Figure of Speech" (Pemberton).

8.54: Selection—Weber's Orchestra, "Faust" (Gounod) (H.M.V. C1511).

9.2: Weather report.

9.4: Vocal quartet—The Majors, "The Praise of Spring" (Stanford).

9.8: Instrumental—4YA Broadcasting Trio, "Aida" Selection (Verdi).

9.16: Tenor—Mr. J. Montague, "The Blind Ploughman" (Clarke).

9.20: Cello—Mr. P. J. Palmer, "As Once in Happier Days" (Popper).

9.26: Sketch—Radio Players, "Dining Out" (Melford).

9.34: Organ—Reginald Foort, "The Desert Song" (Romberg) (H.M.V. B2463).

9.37: Soprano—Miss Freda Elmes, (a) "Sing, Break into Song" (Mallinson); (b) "I Know a Bank" (Shaw).

9.44: Violin—Mr. Frank Parsons, "Schon Rosmarin" (Kreisler).

9.48: Contralto—Miss Dorothy Skinner, (a) "The Monkey Carol" (Stanford); (b) "Easter Snow" (Stanford).

9.55: Orchestral—Berlin Philharmonic Orchestra, "Carnival Romain" (Berlioz) (H.M.V. D1365).

10.3: Close down.

Tuesday, September 17

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, SEPTEMBER 17.

3.0: Afternoon session—selected studio items.

4.0: Literary selection by the Announcer.

4.8: Studio items.

4.25: Sports results to hand.

5.0: Children's session, conducted by Uncle George.

6.0: Dinner session—"Parlophone" Hour:

Selection—Edith Lorand Orchestra, "La Boheme" (Puccini) (E10558).

Viola—Edith Lorand Orchestra, "La Serenade" (Metra) (E10522).

Violin—Tossy Spiwakowsky, "Turkish March" (Beethoven) (A2561).

6.12: Tacet.

6.15: Waltz—Edith Lorand Orchestra, "Venetian Barcarolle" (Leoncavallo) (E10522).

Instrumental—Dajos Bela Trio, (a) "Traumerei" (Schumann); (b) "Chant d'Automne" (Tschalkowsky) (E10573).

Cello—Gregor Platigarsky, "The Swan" (Saint-Saens) (A2628).

6.28: Tacet.

6.30: Fantasia—Dajos Bela Orchestra, "La Traviata" (Verdi) (A4027).

Waltzes—Royal Music Makers, (a) "Kiss Me Again" (Herbert); (b) "Ah Sweet Mystery of Life" (Herbert) (A2722).

6.44: Tacet.

6.45: Suite—Paris Opera Comique Orchestra, "Ballet Egyptien" (Luigini) (A2577/8).

6.57: Tacet.

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- 7.0 : News and market reports.
 7.40: Talk—Madame Edith Baird, "Physical Development."
 8.0 : Chimes.
 8.1 : Instrumental—Studio Trio, "Second Valse in B Flat" (Godard).
 8.9 : Presentation of the song cycles, "In a Persian Garden" (Lehmann), by the Olympians Quartet.
 8.54: 'Cello—Miss Mollie Wright, "Sonata" (Valentini).
 8.58: Vocal duet—Messrs. L. Harvey and B. Coney, "Solenne in Quest Ora" ("La Forza del Destino") (Verdi).
 9.2 : Pianoforte—Miss T. Halpin, "Lassan" ("Second Rhapsodie") (Liszt).
 9.8 : Weather report.
 9.11: Instrumental—Studio Trio, "The Mikado" Selection (Sullivan).
 9.19: Talk—Mr. A. B. Chappell, M.A. Topical Talk.
 9.34: Pianoforte—Miss T. Halpin, "Seguidillas" (Albeniz).
 9.39: Gramophone lecture-recital—Mr. Karl Atkinson, "Fairies in Music": Overture—Berlin State Opera Orchestra, "Oberon" (Weber) (H.M.V. D1316).
 Orchestral—Cleveland Symphony Orchestra, "The School of Fauns" (Brunswick 15181).
 Soprano—Evelyn Scotney, "Elfin Song" (Wolf) (H.M.V. B481).
 Orchestral—Philadelphia Symphony Orchestra, "Dance of the Sugar Plum Fairy" ("Nutteracker Suite") (Tschalkowsky) (H.M.V. D1214).
 Orchestral—Orchestra of the Concert Colonne, Paris, "The Fairy Garden" ("Mother Goose") (Ravel) (Parlophone 1025).
 Song—Sigrid Onegin, "The Fairy Pipers" (Brewer) (Brunswick 15155).
 Orchestral—Grand Symphony Orchestra, "Scherzo" ("Midsummer Night's Dream") (Mendelssohn) (Parlophone 4084).
 10.11: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, SEPTEMBER 17.

- 3.0 : Afternoon session—selected studio items.
 5.0 : Children's session, conducted by Uncle Jim.
 6.0 : Dinner session—"His Master's Voice" Hour:
 Selection—Kauffman's Orchestra, "The Gipsy Baron" (Strauss) (C1393).
 Waltz—La Victoria Orchestra, "Wedding of the Winds" (Hall) (Zonophone EF21).
 6.12: Tacet.
 6.15: Orchestral—Piccadilly Orchestra, (a) "If only I had You" (Davies); (b) "Lolita" (Ferrete) (B2713).
 Hawaiian—Kolomoku's Orchestra, "Charmaine" (Rapee) (B2526).
 6.27: Tacet.
 6.30: Selection—New Mayfair Orchestra, "This Year of Grace" (Coward) (EB37).
 Orchestral—Waring's Orchestra, "Ah! Sweet Mystery of Life" (Herbert) (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) (EA240).
 Orchestral—Victor Concert Orchestra, "Amaryllis" (Thys) (EA240).
 Orchestral—Piccadilly Orchestra, "Bird Songs at Eventide" (Coates) (B2528).
 Waltz—International Concert Orchestra, "Blue Danube" (Strauss) (Zonophone EF21).
 6.57: Tacet.
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Representative, Agricultural Department, "For the Man on the Land."
 8.0 : Chimes of the G.P.O. Clock.
 8.9 : Soprano—Miss Anne Davies, "Poor Butterfly" ("The Big Show") (Hubbell).
 8.13: Vocal and instrumental jazz—Messrs. Edward Silver and Claude Hoare, in the latest popular songs and jazz piano numbers.
 8.20: Flute and clarinet duet—Messrs. Brown and Langtry, "Mad Scene" ("Lucia de Lammermoor" (Donizetti).
 Instrumental—Orchestra, "Serenade" (Widor).
 8.28: Humour—Mr. Bert Thompson, (a) "Peep Bo! Aha! I See You" (Holt); (b) "He's Tall and Dark and Handsome" (Sherman).
 8.35: Baritone—Mr. Val Jones, (a) "Pagan" (Lohr); (b) "For the Green" (Lohr).
 8.42: Suite—Orchestra, "Hyde Park" Suite (Jalowicz).
 8.50: Soprano—Miss Anne Davies, (a) "Only a Rose" ("The Vagabond King") (Friml); (b) "Farewell" ("Maid of the Mountains") (Fraser-Simpson).
 8.57: Weather report.
 9.0 : Vocal and instrumental jazz—Messrs. Edward Silver and Claude Hoare, in the latest popular songs and jazz pianoforte numbers.
 9.7 : Selection—Orchestra, "Haydn Wood's Songs."
 9.17: Baritone—Mr. Val Jones, "Nelson's Gone a-Sailing" (Lohr).
 9.21: Popular song—Mr. Bert Thompson, "Ol Man River" (Kern).
 9.25: Instrumental—Orchestra, request number.
 9.30: "Brunswick" Dance Programme:
 Vocal duet—Frank and James McCravy, "Sweet Adeline" (Gerard) (4335).
 Foxtrot—Colonial Club Orchestra, "Fiorella" (Bryan) (4312).

- Foxtrot—Swanee Syncopators, "The One that I Love Loves Me" (Turk) (4329).
 Waltz—The Eight Radio Stars, "Always in My Heart" (Drew) (4312).
 9.42: Monologue with fiddle—"Dad" Williams, "The Dutchman's Serenade" (Williams) (306).
 Fiddle and guitar—"Dad" Williams, "Money Musk" (traditional) (306).
 Foxtrot—The Eight Radio Stars, "Under the Stars of Havanna" (Coleman) (4311).
 Foxtrot—Swanee Syncopators, "Honest" (Tucker) (4329).
 Foxtrot—Eight Radio Stars, "A Happy Ending" (Brown) (4311).
 9.37: Vocal novelty—Al Bernard, "The Preacher and the Bear" (Arzonio) (312).
 Foxtrot—The Captivators, "Building a Nest for Mary" (Rose) (4321).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "I'm Walking Around in a Dream" (Lewis) (4337).
 Waltz—Copley Plaza Orchestra, "Pagan Love Song" (Freed) (4321).
 10.9 : Orchestra and chorus—Blue Ridge Ramblers, (a) "Who Broke the Lock on the Hen-House Door?" (Smith), (b) "She'll be Comin' 'Round the Mountain when She Comes" (traditional) (310).
 Foxtrot with vocal chorus—Los Angeles Biltmore Hotel Orchestra, "Until You Get Somebody Else" (Kahn) (4337).
 Foxtrot—Arnold Johnson's Orchestra, "Breakaway" (Cottler) (4343).
 10.21: Novelty—Arnold Johnson's Orchestra, "Big City Blues" (Cottler) (4348).
 Waltz—Municipal Band, "Cuckoo" (4358).
 Waltz—Regent Club Orchestra, "Just an Old Love Affair" (Kahn) (4280).
 10.33: Male quartet—Ritz Quartet, "Come West, Little Girl, Come West" (Kahn) (4328).
 Foxtrot—George Belshaw's K.F.A.B. Orchestra, "Sweet Liza" (Hirsch) (4365).
 10.39: Fiddle and guitar—Kessinger Bros., "Richmond Polka" (traditional) (309).
 Foxtrot—George Belshaw's K.F.A.B. Orchestra, "You'd Recognise My Baby" (Jacoby) (4365).
 Foxtrot—Jesse Stafford's Orchestra, "All a-Twitter" (Whiting) (4250).
 10.48: Male quartet—Ritz Quartet, "I'm Bringing a Red, Red Rose" (Kahn) (4328).
 Fiddle and guitar—Kessinger Bros., "Mississippi Sawyer" (traditional) (309).
 Foxtrot—Jesse Stafford's Orchestra, "I Wanna Go Places and Do Things" (Whiting) (4250).
 Foxtrot—Rhythm Aces, "Ace of Rhythms" (Smith) (7071).
 11.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, SEPTEMBER 17.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, SEPTEMBER 17.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0 : Town Hall chimes.
 6.1 : Children's session conducted by Big Brother Bill.
 7.0 : News session.
 7.30: Lecturette—Mr. Lloyd Ross, M.A., LL.B. (under the auspices of the W.R.A.), "Education and the Machine Age."
 8.0 : Town Hall chimes.
 Concert by the Salvation Army Band and assisting artists.
 8.1: March—Band, "Hawthorn" (Hollis).
 8.6 : Baritone—Mr. W. Ruffell, "The Song of the Rover" (Georges).
 8.10: Violin and Wurlitzer organ—De Groot and Terence Casey, "Cavatina" (Raft) (H.M.V. B2920).
 8.13: Selection—Band, "Strains of Victory" (Goldsmith).
 8.21: Soprano—Miss Eva Scott, "With Verdure Clad" (Haydn).
 8.25: Cornet solo—Band soloist, "Largo" (Handel).
 8.31: Negro Spirituals—Fisk University Jubilee Singers, (a) "Little David," (b) "Ezekiel Saw the Wheel" (Regal G20421).
 8.37: Selection—Band, "Warrior's Reward" (Ball).
 8.44: Recital—Miss Ngata Buswell, "The Little Serving Maid" (Belloc).
 8.52: Hymns—Band, (a) "It Is Well," (b) "Bullinger."
 9.0 : Weather report.
 9.2 : Chorus—Band, "The Heavens Are Telling" (Haydn).
 9.12: Baritone—Mr. W. Ruffell, (a) "The Secret of the Tide" (McGeoch), (b) "The Hills of Donegal" (Sanderson).
 9.20: Xylophone—Victor Sterling, "The Great Little Army" (Alford) (Regal G20103).
 9.24: Meditation—Band, "My Prayer" (Rance).
 9.34: Soprano—Miss Eva Scott, (a) "Cradle Song" (Schubert), (b) "The Wild Rose."
 9.39: Male chorus—Chauvre Souris Company, "Round the Hay Wain" (traditional Russian) (Columbia 02525).
 9.43: Euphonium solo—Band soloist, "Calvary's Stream" (Friskrup).
 9.51: Recitals—Miss Ngata Buswell, (a) "Teddy Bear" (Service), (b) "The Lure of Little Voices" (Service).
 9.55: March—Band, "Penzance" (Langworthy).
 10.0 : Close down.

Wednesday, September 18

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, SEPTEMBER 18.

- 3.0 : Selected studio items.
 3.30 : Talk—Mrs. D. Dorman, "Women's Institutes."
 3.45 : Studio items.
 4.0 : Literary selection by Announcer.
 4.8 : Studio items.
 4.25 : Sports results to hand.
 5.0 : Children's session conducted by Uncle Tom.
 6.0 : Dinner session—"His Master's Voice" Hour:
 March—United States Army Band, "Army and Marine" (Starke)
 (Zonophone Record EE145).
 Selection—Piccadilly Orchestra, "The Waltz Dream" (Strauss)
 (B2694).
 Jack Hylton's Orchestra, "My Inspiration is You" (Nicholls) (C1577).
 6.12 : Tacet.
 6.15 : Royal Opera Orchestra, "Sylvia Ballet—Prelude" (Delibes) (C1417).
 Royal Opera Orchestra, "Sylvia Ballet—Intermezzo and Valse Lente"
 (Delibes) (C1417).
 Salon Orchestra, "Chanson Bohemienne" (Baldi) (B2581).
 6.17 : Tacet.
 6.50 : Jack Hylton's Orchestra, "A Room With a View" (Coward) (C1577).
 Salon Orchestra, "Aloha Sunset Land" (Kawelo) (B2581).
 March—San Francisco Symphony Orchestra, "Marche Militaire"
 (Schubert) (ED9).
 6.42 : Tacet.
 6.45 : Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier) (E522).
 Balalaika Orchestra, "Shining Moon" (Russian Folk Song) (EA48).
 March—United States Army Band, "American Spirit" (Buglione)
 (Zonophone EE145).
 6.57 : Tacet.
 7.0 : News and market reports.
 7.40 : Talk—Madame Mabel Milne, "Health and Diet."
 8.0 : Studio concert by the Auckland Artillery Band and assisting artists.
 8.1 : March—Band, "Washington Grays" (Grafulla).
 Overture—Band, "Light Cavalry" (Suppe).
 8.15 : Baritone—Mr. John Bree, "From Oberon in Fairyland" (Slater).
 8.19 : Xylophone—Victor Sterling, "Colonel Bogey" March (Alford) (Regal
 G20103).
 8.23 : Sketch—Mrs. Betty Bell and Mr. Dan Flood, "The Pact."
 8.35 : Cornet duet—Bandsmen K. Smith and L. Mackay, "Besses o' the Barn"
 (Currie).
 8.41 : Soprano—Mrs. Jean le Petit, (a) "Where Leaf Land Lies" (Leoni);
 (b) "A Little Prayer" (Leoni).
 8.48 : Male chorus—Prudhoe Gleemen, (a) "Soldier's Farewell" (Kinkel);
 (b) "Border Ballad" (Maunder) (Regal G20429).
 8.52 : Humorous selection—Band, "Pop Goes the Weasel!" (Hawkins).
 8.59 : Weather report.
 9.1 : Instrumental—Ray Starita's Ambassadors Band, "The Five O'Clock
 Girl" (Kalman) (Columbia 02886).
 9.9 : Baritone—Mr. J. Bree, (a) "Parted" (Tosti); (b) "For You Alone"
 (Gheel).
 9.16 : Patrol—Band, "Abyrian Patrol" (Pridman).
 9.24 : Soprano—Mrs. N. V. le Petit, "The Camel's Hump" (German).
 9.28 : Selection—Band, "Maid of the Mountains" (arrgd. Hume).
 9.38 : Humorous sketch—Mrs. Betty Bell and Mr. Dan Flood, "Where Were
 You Last Night?"
 9.50 : Descriptive number—Band, "In a Persian Market" (Ketelbey).
 March—Band, "Fighting Mac" (Rimmer).
 10.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, SEPT. 18.

SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, SEPT. 18.

- 3.0 : Afternoon session—selected gramophone 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—"Columbia Hour":
 Intermezzo—Milan Symphony Orchestra, "Cavalleria Rusticana" (Mas-
 cagni) (02841).
 Selection—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck)
 (02721).
 6.12 : Tacet.
 6.15 : Selection—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck)
 (02722).
 Marimba Orchestra—Rio Marimba Orchestra, "Three O'Clock in the
 Morning" (Robledo) (02685).
 6.27 : Tacet.
 6.30 : Orchestral—Bayreuth Festival Orchestra, "Siegfried—Prelude, Act 3"
 (Wagner) L2015).
 Waltz—Eddie Thomas' Collegians, "Moments With You" (Shilkret)
 (01135).
 Waltz—Eddie Thomas' Collegians, "Moonlight on the Danube" (Gay)
 (01135).
 Wurlitzer organ—Stanley MacDonald, "La Rosita" (Dupont) (Regal
 G20391).

- 6.43 : Tacet.
 6.45 : Selection—Regal Orchestra, "Pagliacci" (Leoncavallo) (Regal G30007).
 Marimba orchestra—Rio Marimba Orchestra, "My Isle of Golden
 Dreams" (Blaufuss) (02685).
 6.57 : Tacet.
 7.0 : News session.
 7.30 : Addington stock market reports.
 8.0 : Chimes.
 8.1 : Overture—London Theatre Orchestra, "Lilac Time" (Schubert-Clut-
 sam) (Columbia 02699).
 8.9 : Soprano—Miss Thelma Ayres, "Flower Song" ("Faust") (Gounod).
 8.13 : Baritone—Mr. Cyril Rishworth, "Angels Guard Thee" ("Jocelyn")
 (Godard).
 8.17 : Chorus—La Scala Chorus—"Anvil Chorus" ("Il Trovatore") (Verdi),
 (Columbia 01032).
 8.20 : Instrumental—Bohemian Quintet, "Valse" (Coleridge-Taylor): 1.
 Bohemienne; 2. Rustique; 3. De la Reine; 4. Mauresque.
 8.32 : Mezzo-contralto—Mrs. Nellie Whitworth, "O Del Mio Donce Ardor"
 ("Paride ed Elena") (Gluck).
 8.36 : Recital—Miss Mavis Ritchie, "Gathering Peaches" (Baughan).
 8.44 : Instrumental—Basle Symphony Orchestra, "Rosamunde—Entr'acte No.
 2" (Schubert) (Columbia 02875).
 8.48 : Tenor—Mr. Sydney Andrews, "The Song of the Toreador" ("Carmen")
 (Bizet).
 8.54 : Soprano—Miss Thelma Ayres, (a) "A Tender Shadow" (Meyerbeer);
 (b) "Robin Adair" (trdrl.).
 9.1 : Weather report.
 9.3 : Instrumental—Bohemian Quintet, "Vienna Life" (Strauss).
 9.13 : Baritone—Mr. Cyril Rishworth, (a) "From the Land of the Sky-blue
 Water" (Cadman); (b) "Less Than the Dust" ("Four Indian Love
 Lyrics") (Woodforde-Finden).
 9.19 : Mandolin Band—Circolo Mandolinistico, "Serenade" ("Les Millions
 d'Arlequin") (Drigo) (Columbia 0989).
 9.22 : Mezzo-contralto—Mrs. Nellie Whitworth, (a) "Lie There, My Lute"
 (MacCunn); (b) "Love Song" (Brahms).
 9.30 : Chorus—La Scala Chorus, "Soldiers' Chorus" ("Faust") (Gounod)
 (Columbia 01032).
 9.33 : Instrumental—Bohemian Quintet, "Three Dances From Henry VIII"
 (German): 1. Morris Dance; 2. Shepherds' Dance; 3. Torch Dance.
 9.41 : Recital—Miss Mavis Ritchie, "My Financial Career" (MS).
 9.47 : Tenor—Mr. Sydney Andrews, (a) "Thy Remembrance" (Cowen); (b)
 "The Four-leaf Clover" (Willeby).
 9.53 : Selection—Regal Orchestra, "I Pagliacci" (Leoncavallo—arrgd. God-
 frey) (Regal G30007).
 10.1 : Close down.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, SEPTEMBER 18.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 6.0 : Children's session, conducted by Aunt Anita.
 7.0 : News session.
 8.0 : Town Hall chimes.
 8.1 : Variety entertainment, presented by the "Four Aces" Concert Party.
 9.30 : "His Master's Voice" dance programme:
 Bass-baritone solo—Peter Dawson, "Captain Harry Morgan" (Ban-
 tock) (B2884).
 Foxtrot—Arcadians' Dance Orchestra, "Fascinating Eyes" (Snyder)
 (Zonophone 5249).
 Foxtrot—Jack Pettis and his Pets, "A Bag of Blues" (Goering) (Zono-
 phone EE138).
 Waltz—Arcadians' Dance Orchestra, "Ah! Sweet Mystery of Life"
 (Herbert) (Zonophone 5249).
 9.42 : Baritone—Noel Coward, "Try to Learn to Love" (Coward) (B2720).
 Foxtrot—Ambrose and his Orchestra, "Try to Learn to Love" (Coward)
 (B5487).
 Foxtrot—Jack Pettis and his Pets, "Freshman Hop" (Goering) (Zono-
 phone EE138).
 9.51 : Humour—Leonard Henry, "The Tale of the Talkies" (Henry) (B2916).
 Foxtrot—Arcadians' Dance Orchestra, "Our Canary" (Butler) (Zono-
 phone 5251).
 Foxtrot—Ambrose and his Orchestra, "Dance, Little Lady" (Coward)
 (B5487).
 Foxtrot—Arcadians' Dance Orchestra, "Dreaming of To-morrow"
 (Pole) (Zonophone 5251).
 10.3 : Baritone—Noel Coward, "Dance, Little Lady" (Coward) (B2720).
 Foxtrot—Geo. Olsen's Music, "Old Man Sunshine" (Dixon) (EA422).
 Foxtrot—Park Central Orchestra, "Then Came the Dawn" (Dubin)
 (Zonophone EE144).
 Waltz—Troubadours, "Diane" (Rapee) (EA269).
 10.15 : Wurlitzer organ—Leslie James, "Just Imagine" (de Sylva) (B2902).
 Wurlitzer organ—Leslie James, "Lily of Laguna" (Stuart) (B2902).
 Foxtrot—Arcadians' Dance Orchestra, "The Man I Love" (Gershwin)
 (5167).
 Foxtrot—"Sentimental Baby" (Palmer) (Zonophone EE144).
 Dance orchestra—Arcadians, "A Room With a View" (foxtrot) (Cow-
 ard) (Zonophone 5167).

- 10.30: Humour—Leonard Henry, "General Post" (Henry) (B2916).
Community Lancers—Bert Firman's Dance Orchestra (Zonophone 5117/8).
- 10.42: Baritone—Maurice Elwin, "Don't Keep Me in the Dark, Brighteyes" (Wendling) (Zonophone 5243).
Foxtrot—Nat Shilkret's Orchestra, "Nagasaki" (Dixon) (EA412).
Foxtrot—Geo. Olsen's Music, "Doin' the Raccoon" (Klages) (EA422).
- 10.51: Baritone—Maurice Elwin, "The First Kiss" (Dubin) (Zonophone 5243).
Foxtrot—Statler Pennsylvanians, "It Goes Like This" (Caesar) (EA446).
Waltz—Nat Shilkret's Orchestra, "Till We Meet Again" (Egan) (EA412).
- 11.0 : Close down.

Thursday, September 19

IYA, AUCKLAND (900 KILOCYCLES).—THURSDAY, SEPTEMBER 19.

- 3.0 : Items presented by Messrs. Lewis Eady, Ltd.
5.0 : Children's session, conducted by Peter Pan.
6.0 : Dinner session—"His Master's Voice" hour:
March—American Legion Band, "The Conqueror" (Telke) (Zonophone 2909).
Selection—Savoy Orpheans, "Lido Lady" (Rodgers) (C1310).
6.12: Tacet.
6.15: New Light Symphony Orchestra, "Rustic Wedding Symphony" (Goldmark) (C1210).
Victor Olof Sextet, "To a Water Lily" (Macdowell) (B2690).
New Light Symphony Orchestra, "Spanish Dance" (Moszkowski) (C1210).
Wurlitzer organ—Reginald Foort, "Just Like a Darby and Joan" (Gilbert) (B2775).
6.28: Tacet.
6.30: Jack Hylton's Orchestra, "The Selfish Giant" (Coates) (C1253).
Victor Olof Sextet, (a) "To a Wild Rose"; (b) "In Autumn" (Macdowell) (B2690).
Violin and wurlitzer organ—De Groot and Terence Casey, "Parted" (Tosti) (V2920).
6.44: Tacet.
6.45: Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli) (Zonophone EF12).
Wurlitzer organ—Reginald Foort, "Love Lies" (Kellard) (B2775).
March—American Legion Band, "Iowa Corn Song" (arrgd. Beeston) (Zonophone 2909).
6.58: Tacet.
7.0 : Book review.
7.15: News and market reports.
7.40: Talk—Mr. N. M. Richmond, B.A., "The Modern Age—As the Modern Woman Sees It" (under the auspices of the W.E.A.).
8.0 : Chimes.
8.1 : Overture—Orchestra, "Crown of Diamonds" (Auber).
8.10: Soprano—Mrs. A. E. Schade, (a) "Ye Banks and Braes" (trdl.); (b) "Ma Curly-headed Babby" (Clutsam).
8.17: Pianoforte—Mr. Gordon Johnston, "Moments of Melody."
8.22: One-act play—Auckland Comedy Players, "Waterloo" (Conan Doyle).
8.50: Instrumental—Studio Orchestra, "By the Lake of Geneva" Suite (Bendel): 1. Sunday Morning at Ghion; 2. A Stroll at Chateaufort.
8.58: Dramatic recital—Mr. J. F. Montague, "The Shooting of Dan McGrew" (Service).
9.4 : Weather report.
9.6 : Instrumental—Studio Orchestra, "Three Old Songs": 1. Sally in Our Alley"; 2. "Long, Long Ago"; 3. "Turkey in the Straw."
9.13: Soprano—Mrs. A. E. Schade, "Betty's Garden" (Sanderson).
9.16: Pianoforte—Mr. G. Johnston, "Moments of Melody."
9.20: Recitals—Mr. Geo. Warren, (a) "Bairnies, Cuddle Doon" (Anderson); (b) "The Laist to Cuddle Doon" (Anderson).
9.27: Instrumental—Studio Orchestra, "Mikado" Selection (Sullivan, arrgd. Williams).
9.36: Dance programme: "Brunswick."
Foxtrots—Bob Haring's Orchestra, (a) "Some Sweet Day" (Shilkret); (b) "Weary River" (Clarke) (4273).
Foxtrots—The Clevelanders, (a) "I'm Thirsty for Kisses—Hungry for Love" (Davis); (b) "In a Little Town Called Home Sweet Home" (Donaldson) (4252).
9.49: Wurlitzer organ—Eddie Dunstedter, "Parade of the Wooden Soldiers" (Jessel) (4293).
Waltz—Thematics Orchestra, "Giovanna" (Kountz) (4310).
Waltz—Eight Radio Stars, "The Dream Girl of Pl. K.A." (Shields) (4310).
Foxtrot—Bob Haring's Orchestra, "A Night in May" (Simon) (4310).
10.3 : Trio—Earl Burnett's Biltmore Trio, "Avalon Town" (4262).
Foxtrots—The Captivators, (a) "I Used to Love Her in the Moonlight" (Lewis); (b) "Step by Step, Mile by Mile" (Silver) (4308).
Waltz—Thematics Orchestra, "Lady Divine" (Kountz) (4297).
10.16: Solo and chorus—Vernon Rickard, "One Golden Hour With You" (Pollack) (4262).
Foxtrot—Fred Hamm's Collegians, "True Blue" (Garland) (4294).

- Foxtrots—Bob Haring's Orchestra, (a) "Down Among the Sugar Cane" (Tobias); (b) "Because I Know You're Mine" (Derickson) (4283).
Waltz—Colonial Club Orchestra, "Why Don't You Love Me?" (Mason) (4294).
10.33: Male chorus—Elks Chorus, "Sweet and Low" (Barnby) (3973).
Soprano—Elizabeth Rethberg, "By a Lonely Forest Pathway" (Chapman) (15146).
Foxtrots—Bob Haring's Orchestra, (a) "Deep Night" (Vallee); (b) "Wedding Bells" (Kahal) (4246).
10.45: Organ with trumpet—Lew White, "Sweethearts on Parade" (Newman) (4263).
Vocal duet—Frank Luther and Carson Robison, (a) "Old Kentucky Cabin" (Robison); (b) "Blue Lagoon" (Robison) (4222).
Waltz—Hotel Roosevelt Orchestra, "Coquette" (Berlin) (4284).
Foxtrot—Hotel Roosevelt Orchestra, "Till We Meet" (Davis) (4284).
11.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES).—THURSDAY, SEPTEMBER 19.

- 3.0 : Chimes of the G.P.O. clock.
3.1 : Selected gramophone items.
4.30 and 4.50: Sports results to hand.
5.0 : Children's session conducted by Uncle George.
6.0 : Dinner session—"Columbia" Hour:
Selection—H.M. Grenadier Guards Band, "New 'Sullivan' Selection" (arrgd. Godfrey) (02731).
Waltz—Court Symphony Orchestra, "Destiny" (Baynes) (564).
6.12: Tacet.
6.15: Orchestral—Columbia Symphony Orchestra, "Idilio" (Lack) (01076).
Suite—New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Coleridge-Taylor): (1) La Caprice de Nanette; (2) Demande et Reponse (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 (02589).
Wurlitzer organ—Terence Casey, "I'm Lonely" (Coates) (01501).
6.42: Tacet.
6.45: Dance suite—H.M. Grenadier Guards Band, "Nell Gwynn Dances" (German): (1) Country Dance; (2) Pastoral Dance (01329).
Orchestral—Columbia Symphony Orchestra, "Spring Song" (Mendelssohn) (01076).
Waltz—Symphony Orchestra, "Morgen Blatter" (Strauss) (9218).
6.58: Tacet.
7.0 : Lecturette—Mr. G. W. Otterson, "God's Own Country" and Other Works of Thomas Bracken.
8.0 : Chimes of the G.P.O. clock.
Special programme by the Wellington Commercial Travellers and Warehousemen's Association Orchestra and Concert Party.
8.1: Overture—Orchestra, "Maritana" (Wallace).
8.13: Soprano with orchestral accompaniment—Mrs. J. F. Woodward and Orchestra, "Invitation" (Owen).
8.17: Pianoforte—Miss Joyce Downing, (a) "Lied" (Rebikoff), (b) (Rigaudon) (Ravel), (c) "Elle Tanse" (Friedman).
8.27: Recital—Mr. Alf. Mazengarb, "Ma Little Rosa" (Anon.).
8.32: Operatic selection—Orchestra, "La Boheme" (Puccini).
8.47: Whistling solo—Mr. Maxwell, selected.
8.51: Musical comedy selection—Orchestra, "You're in Love" (Friml).
9.1 : Weather report.
9.3 : Pianoforte—Miss Ena Sneddon, (a) "Etude, Op. 10, No. 8" (Chopin), (b) "Rhapsodie Hongroise," No. 10 (Liszt).
9.10: Soprano—Mrs. J. F. Woodward, (a) "There is Only the Laughter of Rippling Water" ("Hinemoa"—Hill), (b) "Vilia" ("Merry Widow"—Lehar).
9.17: Selection—Orchestra, "Rosary" (Denton).
Waltz—Orchestra, "Valse des Fleurs" ("Nutcracker Suite") (Tchaikowsky).
9.28: Humour—Mr. Alf. Mazengarb, "Some Humour" (original).
9.35: Musical comedy selection—Orchestra, "Chu Chin Chow" (Norton).
9.47: Baritone—Mr. L. J. Bryan, (a) "Mother of Mine" (Tours), (b) "Devonshire Cream and Cider" (Finck).
9.54: March—Orchestra, "March of the Giants" (Finck).
10.0 : Close down.

3YA, CHRISTCHURCH (930 KILOCYCLES).—THURSDAY, SEPT. 19.

- 3.0 : Afternoon session—Selected gramophone items.
4.25: Sports results to hand.
4.30: Close down.
5.0 : Children's session conducted by Uncle John.
6.0 : Dinner session:
Royal Albert Hall Orchestra, (a) "Song of Morning" (Elgar), (b) "Song of Night" (Elgar) (H.M.V. D1236).
Cello—Gaspar Cassado, "Menuet" (Haydn) (Columbia 03595).
6.11: Tacet.
6.15: Selection—La Scala Orchestra, "Song of the Nightingale" (Napravnik) (H.M.V. D1488).
Trio—Kreisler, Kreisler and Raucheisen, "Arlesienne—Intermezzo" (Bizet) (H.M.V. DB1166).
Male choir—Sheffield Orpheus Male Choir, "Hymn Before Action" (Kipling—Walford Davies) (Regal G30008).

- 4.27: Tacet.
 4.30: Orchestral—Halle Orchestra, "Rosamunde Ballet Music" (Schubert): (1) Andantino, (2) Allegro Moderato, (3) Andante un poco assai (Columbia 04200).
 Cello—Gaspar Cassado, "Chanson Villageoise, No. 2" (Popper) (Columbia 03595).
 4.41: Tacet.
 4.45: Instrumental trio—Kreisler, Kreisler and Rauchselsen, "Sanctissima" (Corelli, arrgd. Kreisler) (H.M.V. DB1166).
 Orchestral—Columbia Symphony Orchestra, "The Flatterer" (Chaminade) (Columbia 01371).
 Male choir—Sheffield Orpheus Male Choir, "The Long Day Closes" (Chorley) (Regal G30008).
 6.57: Tacet.
 7.0: News session.
 7.30: Talk arranged by 3YA Primary Productions Committee, "Seasonal Orchard Work from October Onwards," by Mr. J. D. Carolin (Orchard Division, Department of Agriculture).
 8.0: Chimes.
 8.1: Overture—Rebroadcast of 2YA, Wellington.
 8.9: Part-songs—Mrs. J. E. Russell's Ladies' Glee Party, (a) "My Love Dwells in a Northern Land" (Elgar), (b) "May Day Song" (Franklyn Harvey).
 8.15: Pianoforte—Mrs. J. E. Russell, "Fifth Valse" (Godard).
 8.19: Mezzo-soprano—Mrs. E. M. Tomlinson, (a) "Sing, Break Into Song" (Mallinson), (b) "Beautiful Beatrice" (Mallinson).
 8.24: Violin—Signor O. Savini, "Romanza—Sonata, Op. 45" (Grieg).
 8.32: Baritone—Mr. Fred. A. Bullock, "The King of Thule" (Liszt).
 8.36: Vocal quartet—Galli-Curci, Homer, Gigli, and De Luca, "Fairest Daughter of the Graces" ("Rigoletto"—Verdi).
 8.40: Instrumental—Studio Trio, (a) "Minuet" (Bridge), (b) "Vivace" (Godard).
 8.48: Tenor—Mr. George Fawcett, (a) "I Attempt from Love's Sickness to Fly" (Purcell), (b) "Goddess of My Heart" (Carey) (17th and 18th Century songs).
 Part-songs—Mrs. J. E. Russell's Ladies' Glee Party, (a) "From the Green Heart of the Waters" (Coleridge-Taylor), (b) "To a Wild Rose" (Macdowell).
 8.59: Weather report.
 9.1: Orchestral—Vienna Philharmonic Orchestra, "Symphony in F Major—First Movement" (Beethoven) (H.M.V. D1481).
 9.9: Madrigals—Mrs. J. E. Russell's Ladies' Glee Party, (a) "Come Away, Sweet Love" (Miller), (b) "How Beautiful is Night" (Hamblett).
 9.17: Pianoforte—Mrs. J. E. Russell, "Automne" (Chaminade).
 9.21: Baritone—Mr. Fred. A. Bullock, (a) "Fill a Glass with Golden Wine" (Quilter), (b) "Weep You No More, Sad Fountains" ("Elizabethan Lyrics") (Quilter).
 9.27: Violin—Signor O. Savini, (a) "En Bateau" (Debussy), (b) "Sous Sa Fenetre" (Hubay).
 9.32: Part-song with mezzo-soprano solo—Mrs. J. E. Russell's Ladies' Glee Party (soloist, Mrs. E. M. Tomlinson), "The Fairy Thrill" (Horrocks).
 9.36: Instrumental—Studio Trio, (a) "Nocturne" (Vidor), (b) "Ballet Music" (Schubert), (c) "Mazurka" (Delibes).
 9.44: Tenor—Mr. George Fawcett, (a) "A Pleading" (Tschalkowsky), (b) "Arab Love Song" (Dunkley).
 9.50: Part-songs and contralto solo—Mrs. J. E. Russell's Ladies' Glee Party (soloist, Mrs. E. W. Pigeon), (a) "The Parting Beam of Daylight" (MS.), (b) "Once Again the Day Has Flown" (Abt).
 9.58: Instrumental—Chicago Symphony Orchestra, (a) "Largo" ("Xerxes"—Handel), (b) "Slavonic Dance in G Minor" (Dvorak) (H.M.V. D1432).
 9.6: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, SEPTEMBER 19.
 SILENT DAY.

Friday, September 20

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, SEPTEMBER 20.

- 3 p.m.: Afternoon session—Selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Further studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0: Children's session, conducted by Aunt Jean.
 6.0: Dinner session.
 7.0: Talk—Mr. Frank Sutherland, "Rugby Football."
 7.20: News and market reports.
 7.40: Talk—Mr. W. G. E. Wheeler, "Esperanto."
 8.0: Chimes.
 8.1: Relay of concert from the Waitomo Caves.
 Vocal duet—Miss Millicent O'Grady and Mr. Len. Barnes, "When Gentle Phoebus" (Nicolai).
 Recitals—Miss Nina Scott, (a) "Daddy and the Boy": (b) "Too Late" (a mock tragedy).
 Piano solo—Mr. Cyril Towsey, "Fantasia Impromptu" (Chopin).
 Baritone with violin obligato—Mr. Len. Barnes and Mr. Owen Pritchard, (a) "Wait Till the Clouds Roll By" (Anon.); (b) "When You and I Were Young" (Anon.).

- Entertainer—The Twentieth Century Entertainer.
 Soprano solos—Miss Millicent O'Grady, (a) "I Wonder if Love is a Dream" (Forster); (b) "Waltz Song" ("Tom Jones"), (German).
 Dramatic sketch—"Passengers" (Lucas).
 Duet—Miss M. O'Grady and Mr. L. Barnes, "Still as the Night" (Gostze).
 Recital—Miss Nina Scott, "Pierrot."
 Piano solo—Mr. Cyril Towsey, "Valse in C Sharp Minor" (Chopin).
 Ventriloquist—Mr. Owen Pritchard and his doll.
 Baritone solos—Mr. L. Barnes, (a) "Ethiopia Saluting the Colours" (Wood); (b) "Danny Deever" (Damrosch).
 Entertainer—The Twentieth Century Entertainer.
 Soprano with violin obligato—Miss M. O'Grady and Mr. O. Pritchard, (a) "Mighty Lak' a Rose" (Nevin); (b) "The Last Rose of Summer" (Moore).
 Comedy sketch—"Another Pair of Spectacles."
 Closing chorus.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, SEPTEMBER 20.

- 3.0: Chimes of the G.P.O. clock.
 3.1: Selected gramophone items.
 4.30 and 4.50: Sports results to hand.
 5.0: Children's session, conducted by Big Brother Jack.
 6.0: Dinner session—"His Master's Voice" Hour:
 Overture—New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai) (C1260).
 Waltz—Marek Weber's Orchestra, "Moonlight on the Alster" (Fetras) (C1407).
 6.12: Tacet.
 6.15: Intermezzo—New Light Symphony Orchestra, "Hearts and Flowers" (Tobani) (Zonophone BF20).
 Waltz—Marek Weber's Orchestra, "Wine, Women and Song" (Weber) (C1407).
 Wurlitzer organ—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey) (C1459).
 6.26: Tacet.
 6.30: New Light Symphony Orchestra, "The Glow Worm Idyll" (Lincke) (Zonophone BF20).
 Victor Salon Orchestra, (a) "Indian Love Call" ("Rose Marie") (Friml); (b) "The World is Waiting for the Sunrise" (Lockhart) (EA186).
 Novelty—Balalaika Orchestra, "Song of the Volga Boatmen" (Russian folk song) (EA48).
 6.43: Tacet.
 6.45: Instrumental—De Groot's Orchestra, "The Merry Widow" (Lehar) (B2945).
 Wurlitzer organ—Reginald Foort, (a) "Leave Me Alone" (Dvorak); (b) "Songs My Mother Taught Me" (Dvorak) (C1459).
 6.57: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecture—Mr. V. Hutchinson, Travel Talk, "Travelling Home Across Canada."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, "Martha" (Fietow).
 8.9: Mezzo-contralto—Miss Ngaire Coster, "Farewell to My Home" ("La Wally") (Catalani).
 8.13: Mandolin band—Circolo Mandolinistico—"La Traviata—Prelude, Act 1" (Verdi) (Columbia 02566).
 8.17: Chorus—Light Opera Company, Gems from "Rose Marie" (Friml) (H.M.V. C1205).
 8.21: Tenor—Mr. W. Roy Hill, "Questa O Quella" ("Rigoletto") (Verdi).
 8.25: Selection—Orchestra, "Carmen" (Bizet).
 8.33: Humorous sketch—Madame Eugenie Dennis and partner, "Two in a Punt" (Esmond).
 8.40: Bass—Mr. J. M. Caldwell, "When a Maiden Takes Your Fancy" ("Il Seraglio") (Mozart).
 8.44: Organ—G. T. Pattman, (a) "Temple Bells"; (b) "Less Than the Dust" ("Four Indian Love Lyrics") (Woodforde-Finden) (Columbia 02696).
 8.48: Soprano—Miss Jeanette Briggs, L.A.B., "I'm Alone" ("Lily of Killarney") (Benedict).
 8.52: Selection—Orchestra, "Lily of Killarney" (Benedict, arrgd. Godfrey).
 9.2: Weather report.
 9.4: Mezzo-contralto—Miss Ngaire Coster, "Lascia Chi-lo Pianga" ("Rinaldo") (Handel).
 9.8: Mandolin band—Circolo Mandolinistico, "La Traviata—Prelude, Act 4" (Verdi) (Columbia 02566).
 9.12: Chorus—Light Opera Company, Gems from "No, No, Nanette" (Youmans) (H.M.V. C1205).
 9.16: Bass—Mr. J. M. Caldwell, "Vulcan's Song" ("Philemon et Baucis") (Gounod).
 9.20: Dance suite—Orchestra, "Prince Igor Dances" (Borodine).
 9.28: Humorous sketch—Madame Eugenie Dennis and partner, "Foiled Fiend" (Coke).
 9.35: Organ—G. T. Pattman, (a) "Kashmiri Song"; (b) "Till I Wake" ("Four Indian Love Lyrics") (Woodforde-Finden) (Columbia 02696).
 9.39: Vocal duet—Misses Jeanette Briggs and Ngaire Coster, "Di Conforto Un Raggio So Lo" ("La Vetstale") (Mercandente).
 9.43: Violin—Fritz Kreisler, "Gypsy Caprice" (Kreisler) (H.M.V. DB1110).

- 9.47: Tenor—Mr. W. Roy Hill, "The English Rose" ("Merrie England") (German).
 9.51: Ballet music—Orchestra, "Faust Ballet Music" (Gounod).
 10.0 : Close down.
- 3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, SEPTEMBER 20.**
- 8.0 : Afternoon session—Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0 : Children's session, conducted by "Storyman."
 6.0 : Dinner session—"Columbia Hour":
 Ketelbey's Concert Orchestra, "In a Persian Market" (Ketelbey) (02689).
 Violin—Efrem Zimbalist, "Liebesleid—Old Vienna Waltz" (Kreisler) (04221).
 6.12: Tacet.
 6.15: Plaza Theatre Orchestra, (a) "The Busy Bee" Morceau (Bendix); (b) "My Lady Dainty" Dance (Hesse) (01438).
 Octet—J. H. Squire's Celeste Octet, "La Serenata" (Braga) (9116).
 Kinema organ—G. T. Pattman, "Firefly" (Nicholls) (01348).
 6.27: Tacet.
 6.30: Columbia Symphony Orchestra, "March of the Toys" (Herbert) (02651).
 Waltz—New Concert Orchestra, "Hydropaten" (Gungl) (02672).
 Violin—Efrem Zimbalist, "Zapateado" (Sarasate) (04221).
 6.42: Tacet.
 6.45: Waltz—New Concert Orchestra, "Jolly Fellows" (Bruder) (02672).
 Octet—J. H. Squire's Celeste Octet, "Serenade" (Titl) (9116).
 Waltz—Eddie Thomas' Collegians, "Beautiful Ohio" (Earl) (02651).
 6.56: Tacet.
 7.0: News session.
 7.30: Farm chat arranged by 3YA Primary Productions Committee, "A Review of Articles in the August Number of the 'N.Z. Journal of Agriculture,'" by Dr. Charles Chilton.
 8.0 : Chimes.
 8.1 : Overture—Rebroadcast of 2YA, Wellington.
 8.9 : Vocal quartet—Beckenham Male Quartet, "Soldier's Farewell" (Kinkel).
 8.13: Cello—W. H. Squire (a) "Spinning Wheel" (Dunkler); (b) "Songs My Mother Taught Me" (Dvorak) (Columbia 03611).
 8.19: Tenor—Mr. E. R. Pitman, "Marry the Girl You Love" (MS.).
 8.23: Dance music—Bailey-Marston Dance Orchestra, (a) "Wedding of the Painted Doll" (Brown); (b) "I Kiss Your Hand, Madame" (Erwin).
 8.31: Contralto—Miss Vera Martin, (a) "Shiela" (Bamford); (b) "Song of the Little Folk" (Coates).
 8.37: Humorous patter—Mr. L. T. J. Ryan, "Meet the Wife" (arrgd. Ryan).
 8.47: Organ—Emil Velazco, (a) "By the Waters of Minnetonka" (Lieurance); (b) "A Perfect Day" (Jacobs Bond) (Columbia 01332).
 8.48: Male quartet—Beckenham Quartet, "Lovely Night" (Chavatal).
 8.52: Dance music—Bailey-Marston Dance Orchestra, (a) "Over the Waves" (Briegel); (b) "Dream Boat" (Bagby).
 9.0 : Weather report.
 9.2 : Orchestre Symphonique de Paris, "Carnival of Animals" (Saint-Saens); (1) Introduction and March of the Lions; (2) Hens and Roosters; (3) Swift Animals (Columbia 02760).
 9.10: Baritone—Mr. K. G. Archer, "Berwick Market" (Drummond).
 9.14: Dance music—Bailey-Marston Dance Orchestra, (a) "I Must Have That Man" (Fields); (b) "Broadway Melody" (Brown).
 9.22: Contralto—Miss Vera Martin, (a) "Home, Dear Home" (Loughborough); (b) "Cradle Song" (McFadyen).
 9.27: Vocal quartet—Beckenham Male Quartet, "Medley" (Gracy).
 9.31: Dance music—Bailey-Marston Dance Orchestra, (a) "You Were Meant For Me" (Brown); (b) "Sweet Sue" (Harris).
 9.39: Humorous patter—Mr. L. T. J. Ryan, "Toast and Toasters" (Newman).
 9.45: Saxophone—Rudy Starita, "Minuet" (Paderewski) (Columbia 01143).
 9.48: Male quartet—Beckenham Quartet, "Farmer Gray" (Leslie).
 9.52: Cornet solo—Jas. Compton, "An Emblem" (Thompson) (Columbia 01065).
 9.55: Vocal duet—Messrs. W. H. Odell and F. S. Jackson, "Sweet Genevieve" (Tucker).
 Vocal quartet—Beckenham Quartet, "The Whispering Pines" (Nicholls).
 10.1 : Dance music by the Bailey-Marston Dance Orchestra till 11 p.m., as follows:
 "Me and the Man in the Moon" (Monaco).
 "When You said Good-bye" (Donaldson).
 "Deep Night" (Henderson).
 "Ten Little Miles from Town" (Kahn).
 "Don't Be Like That" (Phillips).
 "I'm Bringing a Red, Red Rose" (Donaldson).
 "Honey" (Whiting).
 "Dream Mother" (Burke).
 "Unfortunate Blues" (Winston).
 "Just Like a Melody Out of the Sky" (Donaldson).
 "Cuckoo" (Robinson).
 "If I Had You" (Shapiro).
 11.0 : Close down.

4YA DUNEDIN (650 KILOCYCLES)—FRIDAY, SEPTEMBER 20.

- 8.0 : Town Hall chimes.
 8.1 : Selected gramophone items.

- 4.25: Sports results to hand.
 4.30: Close down.
 6.0 : Children's session conducted by Aunt Sheila and Big Brother Bill.
 7.0: News session.
 7.30: Lecture by Mr. H. Greenwood of the Dunedin Athenaeum—"Book Review."
 8.0 : Town Hall chimes.
 8.1 : Overture—Lucerne Kursaal Orchestra, "Orpheus in the Underworld" (Offenbach) (Columbia Record 02839).
 8.9 : Vocal quartet—4YA Harmonists, "The Sea Hath Its Pearls" (Pinsuti).
 8.14: Instrumental—4YA Broadcasting Trio, (a) "Valse of the Flowers" (Tschalkowsky); (b) "Humoresque" (Dvorak).
 8.22: Soprano—Miss Mae Matheson, "The Wind" (Spross).
 8.26: Recitals—Mr. Carl Moller, (a) "The Secret People" (Chesterton); (b) "Isaacstein's Ocean Voyage" (Hayman).
 8.34: Pianoforte—Mrs. Ernest Drake, "Country Gardens" (Grainger).
 8.39: Tenor—Mr. H. A. Johnston, (a) "Farewell to Summer" (Johnson); (b) "Only the River Running By" (Hopkins).
 8.45: Cello—Mr. P. J. Palmer, "Bourre" (Handel).
 8.50: Mezzo-soprano—Miss Mollie Andrews, "The Songster's Awakening" (Fletcher).
 8.55: Instrumental—Regal Orchestra, "Marche—Casse Noisette Suite" (Tschalkowsky) (Regal Record G20369).
 8.59: Weather report.
 9.2 : Vocal quartet—4YA Harmonists, "The Long Day Closes" (Sullivan).
 9.7 : Instrumental—4YA Broadcasting Trio (a) "Waltz" from "Serenade" (Tschalkowsky); (b) "Pierrette" (Chaminade).
 9.12: Baritone—Mr. F. M. Tuohy, "Eleanore" (Coleridge-Taylor).
 9.16: Violin—Mr. Frank Parsons, "Scherzo Tarantelle" (Wieniawski).
 9.20: Recital—Mr. Carl Moller, "Hints on Motoring" (Anon).
 9.26: Instrumental—New Queen's Hall Orchestra, "Summer Days" Suite (Coates): 1. In a Country Lane; 2. On the Edge of the Lake (Columbia Record 02590).
 9.34: Presentation of the song cycle "The Pagoda of Flowers" (Woodford-Finden) by the 4YA Harmonists.
 9.56: Instrumental—New Queen's Hall Orchestra, "Summer Days" Suite (Coates): At the Dance (Columbia Record 02591).
 10.0 : Close down.

Saturday, September 21

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, SEPTEMBER 21.

- 3.0 : Relay description of football match from Eden Park.
 4.30: (approx.) Close down.
 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner session:
 Selection—Debroy Somers' Band, "The Desert Song" (Romberg) (Columbia 02700).
 Waltz—Eddie Thomas' Collegians, "Moments With You" (Shilkret) (Columbia 01135).
 Mandolin Band, "Turn to Surriento" (de Curtis) (Columbia 01210).
 6.12: Tacet.
 6.15: Waltzes—International Concert Orchestra, (a) "Over the Waves" (Rosas); (b) "Danube Waves" (Ivanovici) (Zonophone EF3).
 Hawaiian—Hilo Hawaiian Orchestra, (a) "Kawaihau Waltz" (Kealakai); (b) "My Hula Love" (H.M.V. B2799).
 6.27: Tacet.
 6.30: Suite—Wurlitzer organ, "Merchant of Venice" (Rosse): (1) Prelude; (2) Intermezzo; (3) Oriental March (Columbia 02796).
 Mandolin Band—"Stephanie Gavotte" (Czinbulka) (Columbia 01210).
 Saxophone solo—Rudy Wiedoeft, "Serenade" (Drigo) (Columbia 01180).
 6.42: Tacet.
 6.45: Waltz—International Concert Orchestra, "Gipsy Love" (Lehar) (Zonophone EF17).
 New Light Symphony Orchestra, (a) "Barcarolle" ("Tales of Hoffman") (Offenbach); (b) "Cavalleria Rusticana—Intermezzo" (Mascagni) (H.M.V. B2377).
 Waltz—International Concert Orchestra, "Sweetheart" (Strauss) (Zonophone EF17).
 6.59: Tacet.
 7.0 : News session, market reports and sports results.
 8.0 : Chimes.
 8.1 : Overture—Orchestra, "Nell Gwynn" (German).
 8.11: Bass—Sergeant W. H. Hallahan, (a) "Captain Mac" (Sanderson); (b) "Bells of the Sea" (Solman).
 8.18: Violin and organ—Chas. Williams, "Melody in F" (Rubinstein) (Zonophone Record 5194).
 8.22: Contralto—Miss Phyllis Hazell, (a) "Homeland" (Drummond); (b) "Smilin' Through" (Penn).
 8.29: Vocal trio—Snappy Three, (a) "Honey" (Simons); (b) "That's Her Now" (Ager).
 8.35: Waltz—Studio Orchestra, "You and You" (Strauss).
 8.42: Soprano—Miss Freda Gaudin, "Bird Songs at Eventide" (Coates).
 8.46: Pianoforte—Mr. Eric Bell, (a) "After My Laughter Comes Tears" (Tobias); (b) "There a Rainbow Round My Shoulder" (Donaldson).
 8.51: Humorous duologue—Angela Baddeley and L. Du Garde Peach, "Motoring Without Tears" (Peach) (H.M.V. Record B2313).

- 8.59: Weather report.
 9.1: Bass—Sergeant W. H. Hallahan, "Nirvana" (Adams).
 9.5: Tango Argentino—International Novelty Orchestra, (a) "El Choclo" (Villoldo); (b) "Y Come Le Va" (Valverde) (H.M.V. Record EA364).
 9.9: Contralto—Miss P. Hazell, "A Summer Night" (Thomas).
 9.13: Vocal trio—Snappy Three, (a) "Mississippi Moon" (Terese); (b) "Can't Help Loving Dat Man" (Kern).
 Soprano—Miss Poulton, "Forty-seven Ginger Headed Sailors" (Sarony).
 9.22: Suite—Studio Orchestra, "Petite Suite" (Tschalkowsky): 1. In the Troika; 2. Nocturne; 3. Valse Creole.
 9.32: Soprano—Miss Gaudin, (a) "Damon" (Strang); (b) "A Day Will Come" (Nevin).
 9.39: Pianoforte—Mr Eric Bell, (a) "Get Out and Get Under the Moon" (Jerome); (b) "Just Like a Melody out of the Sky" (Donaldson).
 9.45: Hawaiian—(a) "Wahine U'L" (Kahale); (b) "Na Moku Eha" (Kea-loha) (Columbia Record 01283).
 9.51: Instrumental—Studio Orchestra, "Ballet Russe" (Luigini): 1. Valse Anime; 2. Marche Russe.
 10.1: Dance Programme. "Brunswick":
 Foxtrot—Brunswick Orchestra, "I'd Rather be Blue" (Rose) (4213).
 Foxtrot—Red Nicholls' Five Pennies, "I Never Knew" (Kahn) (4243).
 Foxtrot—Brunswick Orchestra, "My Man" (Pollack) (4213).
 10.10: Vocal solo—Nick Lucas, "Heart O' Mine" (Rose) (4215).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "You Were Meant for Me" (Brown) (4231).
 Foxtrot—Jungle Band, "Tiger Rag" (La Rocca) (4238).
 10.34: Tenor—William O'Neal, "Softly as in a Morning Sunrise" (Romberg) (4208).
 Foxtrot—Barnes' Royal Creolians, "It's Tight Like That" (Dorsey) (4244).
 Foxtrot—Paramount Hotel Orchestra, "I'll Never Ask for More" (Tuck) (4203).
 Foxtrot—Hotel Roosevelt Orchestra, "I Want to Be Bad" (de Sylva) (4204).
 One-step—Rhythm Aces, "Jazz Battle" (Smith) (4244).
 10.49: Tenor—William O'Neal, "Stout Hearted Men" (Romberg) (4208).
 Foxtrot—Paramount Hotel Orchestra, "When the World is at Rest" (Davis) (4203).
 Foxtrot—Hotel Roosevelt Orchestra, "Button up Your Overcoat" (de Sylva) (4204).
 Foxtrot—Red Nicholls' Five Pennies, "Who's Sorry Now?" (Kalmar) (4243).
 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, SEPTEMBER 21.

- 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—"Parlophone" Hour:
 Selection—Edith Lorand Orchestra, "The Vagabond King" (Friml) (E10601).
 Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss) (A4010).
 6.12: Tacet.
 6.15: Selection—Frank Westfield's Orchestra, "Chu Chin Chow" (Norton) (A2678).
 Piano and orchestra—Raie da Costa, "When Day is Done" (De Sylva) (A4041).
 Wurlitzer organ—Leslie Harvey, "Absent" (Metcalfe) (A2728).
 6.29: Tacet.
 6.30: Waltzes—Dajos Bela Orchestra, (a) "O Spring, How Fair Thou Art" (Lincke), (b) "Songe d'Amour Apres Le Bal" (Czibulka) (E10602).
 Instrumental—Dajos Bela Orchestra, "Humoresque" (Dvorak) (E10559).
 6.42: Tacet.
 6.45: Dance orchestra—Dorsey Brothers' Orchestra, "Was it a Dream?" (Cowlos) (A2567).
 Wurlitzer organ—Leslie Harvey, "Until" (Sanderson) (A2728).
 Waltz—Dajos Bela Orchestra, "Faust" (Gounod) (A4010).
 6.55: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. A. W. Free, LL.B. (under the auspices of the W.E.A.), "John Howard the Pioneer."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, "The Crusader" (Rollinson).
 8.9: Vocal quartet—Melodie Four, "Sonny Boy" (De Sylva, arr. Crowther).
 8.13: Comic song and whistling solo—Mrs. Winifred Birch-Johnston, (a) "Delaney's Donkey" (Hargreaves), (b) "C'est Vous" (Green).
 8.20: Cornet and trombone duet—Messrs. W. Sneddon and H. Oakes, "Watchman, What of the Night?" (Sargeant).
 Novelty—Orchestra, "Two Brass Men" (Lamey).
 8.28: Bass—Mr. W. W. Marshall, "The Yarn of the Fiddler's Ghost" (Trottere).
 8.32: Steel guitar trio—Mrs. Mildred Kenny's Steel Guitar Trio, (a) "Beauteous Isle" (Bickford), (b) "Kamiki March" (Smith).
 8.39: Humour—Mr. Len Ashton, "Them Were Days" (Gallatley).
 8.46: Vocal quartet—Melodie Four, "Doan Yer Cry, Ma Honey" (Macy).

- 8.50: Instrumental—Orchestra, request number.
 8.58: Weather report.
 9.0: Tenor—Mr. Sam Duncan, "At Dawning" (Cadman).
 9.4: Ventriloquist—Mr. Will Haigh and his pal Johnny.
 9.14: Musical comedy selection—Orchestra, "Queen High" (Gensler).
 9.22: Baritone—Mr. R. S. Allwright, "The Merry Monk" (Molloy).
 9.26: Steelguitar trio—Mrs. Mildred Kenny's Steel Guitar Trio, (a) "Hawaiian Love Song" (De Lano); (b) "My Hawaiian Hula Queen" (Clark).
 9.33: Humour—Mr. Len Ashton, (a) "Don't Do That to the Poor Puss Cat" (Sarony), (b) "I Like Scented Soap" (MS.).
 9.40: Tenor—Mr. Frank Bryant, "The Old Refrain" (Kreisler).
 9.44: Vocal quartet—Melodie Four, "Peter the Cat" (Eastman).
 9.48: Instrumental—Orchestra, Dance Novelties.
 10.0: "His Master's Voice" Dance Programme:
 Foxtrot with vocal refrain—Rhythmic Eight, "Don't Be Like That" (Cottler) (Zonophone EE154).
 Foxtrot—Jack Hylton's Orchestra, "Sweetheart of All My Dreams" (Fitch) (EA540).
 Foxtrot—Arcadians Dance Orchestra, "Pokee-okee-oh" (Butler) (Zonophone EE155).
 Foxtrot—Jack Hylton's Orchestra, "I Lift Up My Finger and Say 'Tweet Tweet'" (Sarony) (EA540).
 10.12: Wurlitzer organ—Jesse Crawford, "A Precious Little Thing Called Love" (Davis) (EA536).
 Foxtrot—George Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn) (EA537).
 Foxtrot—Nat Shilkret's Orchestra, "One for All, All for One" (Trent) (EA528).
 Foxtrot—Heidt's Orchestra, "I'm Ka-razy for You" (Jolson) (EA539).
 Waltz—Arcadians Dance Orchestra, "That Old-Time Organ Melody" (Carlton) (Zonophone EE155).
 10.30: Contralto solo—Lupe Valez, "Mi Amado" (My Beloved) (Lewis) (EA535).
 Foxtrot—George Olsen's Music, "Come West, Little Girl, Come West" (Kahn) (EA537).
 Foxtrot—Nat Shilkret's Orchestra, "I'm Thirsty for Kisses, Hungry for Love" (Davis) (EA528).
 Foxtrot—Nat Shilkret's Orchestra, "Some Sweet Day" (Shilkret) (EA531).
 Foxtrot—Waring's Pennsylvanians, "My Mother's Eyes" (Gilbert) (EA530).
 10.45: Wurlitzer organ solo—Jesse Crawford, "Carolina Moon" (Davis) (EA536).
 Foxtrot—"Kassels in the Air," "He, She, and Me" (Newman) (EA532).
 Foxtrot—Park Central Orchestra, "Sally of My Dreams" (Kernell) (EA530).
 Waltz—Connecticut Yankees, "Coquette" (Berlin) (EA532).
 Waltz—Nat Shilkret's Orchestra, "Lady Divine" (Shilkret) (EA531).
 11.0: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, SEPT. 21.

- 2.45: Running description of football match from Lancaster Park—Canterbury versus South Canterbury.
 4.45: (approx.) Close down.
 5.0: Children's session, conducted by Aunt Pat, Jack Frost and Sunny Jim.
 6.0: Dinner session—"His Master's Voice" Hour:
 Instrumental—Piccadilly Orchestra, (a) "My Beloved Gondolier" (Tiber); (b) "Souvenir de Capri" (Bece) (B2575).
 New Light Symphony Orchestra, "Just a Memory" (De Sylva) (EB18).
 Violin and kinema organ—Elsie Southgate, "I Hear You Calling Me" (Marshall) (Zonophone 5109).
 6.12: Tacet.
 6.15: Waltzes—Marek Weber's Orchestra, "Pot Pourri of Waltzes" (Robrecht) (C1544).
 Waltz—Hilo Hawaiian Orchestra, "Sweet Hawaiian Dream Girl" (Williams) (Zonophone EE156).
 6.26: Tacet.
 6.30: New Light Symphony Orchestra, "Scene de Ballet Marionettes" (Glazounov) (B2754).
 Violin and kinema organ—Elsie Southgate, "Rose in the Bud" (Tate) (Zonophone 5109).
 New Light Symphony Orchestra, "Persiflage" (Francis) (B2754).
 Instrumental—Jack Hylton's Orchestra, "When the White Elder-Tree Blooms Again" (Doelle) (C1616).
 6.44: Tacet.
 6.45: Salon Orchestra, "My Blue Heaven" (Whiting) (EF18).
 Waltz—Hilo Hawaiian Orchestra, "Sleepy Honolulu Town" (Earl) (Zonophone EE156).
 Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Erwin) (C1616).
 6.56: Tacet.
 7.0: News session.
 7.30: Sports results.
 7.59: Rebroadcast of 2YA, Wellington (Vaudeville Programme).
 10.0: "Brunswick" Dance Programme:
 Baritone—Chester Gaylor, (a) "Blue Hawaii" (Schuster); (b) "The One in the World" (Little) (4360).
 Foxtrot—Bob Haring's Orchestra, "Louise" (Robin) (4359).

- Foxtrot—Colonial Club Orchestra, "Peace of Mind" (Dyrenforth) (4356).
 Foxtrot—Bob Haring's Orchestra, "Huggable, Kissable You" (Bibo) (4359).
 10.15: Violin—Fredric Fradkin, "A Kiss in the Dark" (De Sylva) (4318).
 Foxtrot—Al Goodman's Orchestra, "Yours Sincerely" (Rodgers) (4364).
 Foxtrot—Colonial Club Orchestra, "The One in the World" (Little) (4356).
 Waltz—Colonial Club Orchestra, "My Heart is Bluer than Your Eyes" (Bryan) (4364).
 10.28: Male trio—Earl Burnett's Biltmore Trio, "Love Me or Leave Me" (Kahn) (4336).
 Foxtrot—Bob Haring's Orchestra, "Fioretta" (Romilli) (4288).
 Foxtrot—Ray Miller's Orchestra, "In My Garden of Memory" (Buckley) (4352).
 Novelty foxtrot—Anglo-Persians, "Dance of the Paper Dolls" (Tucker) (4299).
 10.39: Male trio—Earl Burnett's Biltmore Trio, "A Garden in the Rain" (Gibbons) (4366).
 Foxtrot—Ray Miller's Orchestra, "Moonlight and Roses" (Lemare) (4352).
 Novelty foxtrot—Anglo-Persians, "The Toymaker's Dream" (Golden) (4299).
 Waltz—Bob Haring's Orchestra, "Dream Boat" (Henry) (4288).
 10.51: Violin—Frederick Fradkin, "Nola" (Arndt) (4318).
 Foxtrot—The Pleasure Bound Orchestra, "Just Suppose" (Silvers) (4357).
 Waltz—Regent Club Orchestra, "Just Another Kiss" (Davis) (4357).
 11.0 : Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, SEPTEMBER 21.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0 : Children's session, conducted by Uncle George.
 7.0 : News session.
 8.0 : Town Hall chimes.
 8.1 : Relay of 3YA, Christchurch (Rebroadcast of 2YA, Wellington—Vauclville Programme).
 10.0 : "His Master's Voice" Dance Programme:
 Baritone—Noel Coward, "A Dream of Youth" (Coward) (B.2737).
 Foxtrot—Nat Shilkret's Orchestra, "Because I Know You're Mine" (Derickson) (EA515).
 Foxtrot—Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Erwin) (EA519).
 10.9 : Banjo solo—Mario de Pietro, "Frivolous Joe" (de Pietro) (B2820).
 Foxtrot—Nat Shilkret's Orchestra, "I Want a Daddy to Cuddle Me" (Ebie) (EA515).
 Foxtrot—Waring's Pennsylvanians, "That's How I Feel About You" (Davis) (EA516).
 Waltz—Jean Goldkettes' Orchestra, "Can You Blame Me?" (Goodwin) (EA519).
 10.21: Baritone—Noel Coward, "Lorelei" (Coward) (B2737).
 Foxtrot—New Mayfair Dance Orchestra, "The Egg Song" (Salisbury) (EA517).
 Foxtrot—Geo. Olsen's Music, "In a Little Town Called Home Sweet Home" (Donaldson) (EA516).
 Tango—Rio Grande Tango Band, "The Tile Trot" (Penso) (EA517).
 10.33: Comedian—Frank Crumit, "The Road to Vicksburg" (Crumit) (EA523).
 Foxtrot—Nat Shilkret's Orchestra, "Broadway Melody" (Freed) (EA523).
 Foxtrot—Waring's Pennsylvanians, "My Castle in Spain" (Caesar) (EA523).
 10.42: Mandolin solo—Mario de Pietro, "Concert Mazurka" (Calace) (B2820).
 Foxtrot—Nat Shilkret's Orchestra, "You Were Meant for Me" (Freed) (EA525).
 Foxtrot—Geo. Olsen's Music, "Makin' Whoopee!" (Kahn) (EA498).
 10.51: Comedian—Frank Crumit, "The King of Borneo" (Crumit) (EA524).
 Foxtrot—Geo. Olsen's Music, "Until You Get Somebody Else" (Kahn) (EA498).
 Waltz—Rudy Vallee and his Connecticut Yankees, "Sweet Suzanne" (Leslie) (EA523).
 11.0 : Close down.

- 8.30 (approx.): Studio concert.
 Instrumental—New Queen's Hall Orchestra, "Symphony in B Minor" (Schubert), (Columbia 02757).
 Tenor—Mr. T. Moffitt, (a) "Believe Me if All" (Moore); (b) "Mary of Argyle" (traditional).
 Pianoforte—Leopold Godowsky, (a) "Nocturne in E Flat" (Chopin); (b) "Nocturne in E Minor" (Chopin), (Columbia 04237/8).
 Mezzo-soprano—Miss Molly Atkinson, "Forever" (Rubinstein).
 Baritone—Mr. Hartley Warburton, "Largo Al Factotum" (Rossini).
 Organ—Edouard Commette, "Toccata" (Gigout), (Columbia 02732).
 Tenor—Mr. T. Moffitt, "Dolorosa" (Phillips).
 Chorus—La Scala Chorus, Milan, "La Tempesta" (Otello), (Verdi), (Columbia 02723).
 Mezzo-soprano—Miss Molly Atkinson, (a) "O Thank Me Not" (Mallinson); (b) "Sing, Break into Song" (Mallinson).
 Baritone—Mr. Hartley Warburton, "O Could I But Express in Song" (Malashkin); (b) "Tis the Day" (Leoncavallo).
 Band—Royal Italian Band, "Marcia Reale" (Gabetti), (Columbia 01182).
 Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, SEPTEMBER 22.

- 3.0 : Chimes.
 3.1 : Selected studio items.
 4.30: Close down.
 6.0 : Children's song service, conducted by Uncle George.
 7.0 : Relay of service from St. Paul's Pro-Cathedral, Mulgrave Street, Wellington. Preacher, Rev. Percival James. Organist and choirmaster, Mr. Robert Parker.
 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 22.

- 3.0 : Afternoon session—selected studio items.
 4.30: Close down.
 5.30: Children's song service.
 6.15: Hymn tunes from Studio.
 6.30: Relay of service from Knox Presbyterian Church, Bealey Avenue; Preacher, Rev. T. W. Armour. Musical director, Mr. W. H. Dixon, L.R.A.M., A.R.C.M. Organist, Mr. Allan Welbrock.
 7.45: (approx.)—Studio concert:
 Instrumental—Berlin State Opera Orchestra, (a) "Danse De La Fee Dragee"; (b) "Danse Russe-Trepak" ("Nutcracker" Suite) (Tschalkowsky) (Parlophone E10516).
 Mezzo-soprano—Miss Rose Horrell, "O Rest in the Lord" ("Elijah") (Mendelssohn).
 Instrumental—Studio Trio, "Trio in B Flat—Allegro Moderato" (Schubert).
 Mezzo-soprano—Miss Rose Horrell, (a) "Angels Ever Bright and Fair" (Handel); (b) "God Be With You" (Elmblad).
 8.15: (approx.)—Rebroadcast of 2YA, Wellington (relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, SEPTEMBER 22.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.30: Close down.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.30: Relay of service from Salvation Army Citadel, Dowling Street—Preacher, Captain A. Chandler.
 8.5 : (approx.)—Relay from His Majesty's Theatre of concert by the Kaitiaki Band, under the conductorship of Mr. T. J. Kirk-Burnand.
 9.15: Close down.

Sunday, September 22

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, SEPTEMBER 22.

- 2 p.m.: Afternoon session—Selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.30: Close down.
 6.0 : Children's session, conducted by Uncle Leo.
 6.55: Relay of service from Pitt Street Methodist Church. Preacher, Rev. W. Walker; choirmaster, Mr. W. Leather; organist, Mr. E. Bickerton.

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Children's Sessions

AT 1YA.

TUESDAY, September 17: Three cheers! The Tudor Orchestra at the Studio again, giving an hour of their delightful music. Uncle George with stories and birthday greetings.

WEDNESDAY: Uncle Tom at the helm with songs and stories. Cousin Ruth will sing, and we'll have some of our favourite gramophone records.

THURSDAY: A jolly hour with Peter Pan, who will have stories and catches. Cousins will play the piano and recite.

FRIDAY: Aunt Jean in charge with verse verses. Heaps of surprises, so don't miss listening in.

SATURDAY: This evening, the pupils of Mr. Arthur Wilson will provide an interesting hour, with songs, piano solos and recitations. Cinderella will have stories and jokes to tell.

SUNDAY: Children's Song Service, conducted by Uncle Leo, assisted by Beresford Street Sunday school.

AT 2YA.

MONDAY, SEPTEMBER 16:

An unusual hour has been arranged for Radioland to-night by Miss Hazel Hardwicke. All the items will be Japanese and Uncle Jeff will give the birthday greetings and a puzzle.

TUESDAY:

Once again we are to have the pleasure of hearing the Guilford Terrace Convent Choir. Uncle Jim will give birthday greetings and sing his farewell song.

THURSDAY:

To-night we are having a relay from the Salvation Army Orphanage, Owen Street. The children have some jolly songs to sing and merry choruses. Uncle George and Aunt Gwen will be there, too, with stories and greetings.

FRIDAY:

The pupils of Mrs. Ethel Mackay will entertain Radioland to-night. Once again they are welcome. Brother Jack will send the birthday messages and the Story Book Lady will read some more of her little story.

SATURDAY:

Pupils of Mrs. Bernasconi will give us three or four little items, and Cousin Meryl will sing a song and recite. Uncle Toby and Aunt Gwen will be there with their usual greetings.

SUNDAY:

The Children's Song Service will be conducted by Uncle George, assisted by St. Mark's Sunday School Choir, under Mr. Small.

AT 3YA.

MONDAY, SEPTEMBER 16:

If you want to hear something else about the early school days of New Zealand—why, just you listen in to "Scatterjoy" to-night, and you will hear all sorts of interesting incidents of school life long ago. "The Melody Maids," too, will sing you sweet songs of our grandmothers' days.

WEDNESDAY:

Mother Hubbard back from her holidays, with something fresh to

tell you of the beach in spring time. Uncle Frank with fresh stories and fun for you all.

THURSDAY:

Everybody always ready to welcome our young Uncle John on Thursdays, and the Young Wales League with their sweet singing helping to make us all happy and contented.

FRIDAY:

"Storyman" in charge to-night, and the Rhodes Street Presbyterian Girls' Home, singing choruses and songs for us, and the little wee girls crooning lullabies to their dollies.

SATURDAY:

Those mischievous boys, Sunny Jim and Jack Frost, visiting Aunt Pat again. Oh, dear! Just what are they up to to-night? Well—suppose you all listen in and hear!

SUNDAY:

The Children's Song Service conducted by Rev. L. McMaster and the hymns to be sung by the children from the Presbyterian Sunday School.

A Radio Piano

A Novel Combination

IN America, where the piano trade is suffering from a deep depression, extending from coast to coast, the factories are extending their sphere of usefulness. One huge concern is turning out motor-boats and many are making radio sets, writes "Musical Opinion."

The prevalent idea concerning the latter is that they should be of the "big-unit" order, powerful and costly. Costly so that they might be worthy of the attention of the hire-purchase people, and powerful so that they might pick up distant stations amid the maze of the thousand and one local emitters. (American sets are said to be so miraculously contrived that a listener not liking a particular voice in a quartet, can cut out the offender and receive only the other three!)

Pursuing the big-unit idea, a firm of piano-makers is now getting out a combination piano and radio. The piano is equipped with a built-in all-electric six-valve radio with magnetic loudspeaker. No aerial is needed to bring in distant and nearby stations, this is provided for in the piano strings to which the radio is attached.

The receiving set is placed inside the upright piano above the keyboard and the loudspeaker is concealed in the instrument directly below the keyboard. The piano may be played while the radio set has been tuned in on a programme being broadcast from any station, without interference. With such an arrangement it is possible for any one to play an accompaniment to the singer of the orchestra broadcasting from the outside station. This means, therefore, that the piano may be played separately, the radio set tuned in, or the two played in unison.

The first combination piano and radio set completed comprises a specially built piano case which has a top a little larger than the ordinary upright instrument.

A Widow's Dilemma

An Earnest Appeal

EVERY week our "Record" seems to have more letters suggesting that the company spend more money, but there is no "woman's point of view" any more. A suggestion how to save money should be welcome, especially from one more than satisfied with the service given already. Wouldn't it be possible to pay off "Cathode," "Pen-tode," and all the construction notes experts for just a week or two? I'm quite sure I've earned one for them if they aren't tired themselves. If they are married, think how their wives would enjoy help with the garden, particularly in the spring!

This particular radio widow writing has almost every conceivable thing which has appeared in the construction notes of your journal (from the very first) lying in and under her house. A big twenty feet living room is nearly full with exponential horns, cone speakers, other horn speakers, as well as the new dynamic cone speaker; all take room. So do wet B batteries when they are 180 volts.

Once upon a time a plate rack ran round my living room wall. In the last four years it has become a shelf for every imaginable spare part, and where it isn't taken up with valves, odd coils, chokes, etc., there are radio books of every kind obtainable. Until lately we've had to dine elsewhere. Your expert's six-valve set takes a fair amount of space on the table when spread out down to its smallest screw. Still, even if the table was bored while boring the panel it does work and work

well, so perhaps he deserves a holiday for his own sake.

There must be lots of wives like myself who would like a "woman's page" and less construction. All the same, the "Radio Record" is eagerly looked for here, especially for the "moans" about the concerts. It would be an impossibility for the Broadcasting Company to arrange even one concert that would suit everybody in our immediate family, where some community of tastes can be expected; so how any sane person expects them to please all the time is beyond me. It is a help to have the week's programme ahead, too, as then we can make arrangements to suit visitors' tastes as far as possible. Ours, we have hundreds in the course of a year, are usually well satisfied, and at least six sets have gone in lately through hearing a set here.

The "Pied Piper" is something like someone in this district who complains bitterly about the standard of the programmes. His gramophone records, presumably of his own choosing and taste, consist of "Horsey, keep your tail up," and the like.

In conclusion, I do thank the "Record" for the help it gives, but all the construction, with three baby girls to keep out of mischief and sitting up half the night with other radio fiends, is almost too much sometimes.

For instance, at lunch time one is warned that there will be about seven in for supper at night, and bang goes all idea of an afternoon gardening with appetites like theirs ahead.—"Radio Widow."

For Sale or Exchange.

See page 32 for column of casual advertisements.

Longest
Life,
Honest
Rated
Capacity



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

FOR SALES AND SERVICE—

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

Auckland: BATTERY SUPPLIES LTD.

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

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

87 Dixon Street, Wellington. Phone 20-037.

Christchurch:

WATKINSON'S LTD.
STORAGE BATTERIES FOR ALL PURPOSES
PRINTING-LIGHTING-IGNITION EQUIPMENT

261-265 TUAM ST.

Between Madras and
Barbadoes Streets.

Telegrams: "Yesuvian,"
Chch.

P.O. Box 1118. Phone 3244

Dunedin: J. & A. P. SCOTT LTD.

Corner Albany and Leith Streets, Dunedin.
P.O. Box 209.

Phone 12-569.

Telegrams: "Japscot."

Radio Everywhere

Position in America

DURING a tour of the United States of America, the outstanding fact that faced one all the time was the ubiquitous radio, says a writer in a Home Journal. It could not be avoided anywhere—not even in one's bedroom at the hotels, for there were earphones.

In crossing the Atlantic one was constantly reminded of the linking-up power of wireless. Each passenger was given a card which contained the terms for sending wireless messages anywhere. The third day out a wireless message came to me from England direct. On the noticeboard on deck was the daily reminder that our ship was in constant touch with eight other ships, the names of which were given.

It was no stretch of the imagination to think of each of these eight ships in constant touch with eight other ships until the whole oceans and continents were linked up in a cob-web of radio designs.

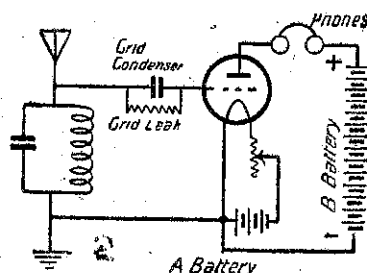
Every morning there was awaiting us at the breakfast table the "Radio Bulletin," which contained news gathered by the ship's radio from the four corners of the earth. On the fast American express trains was the unavoidable radio. Telegrams came and went all day long. The wireless operator on one train informed me that during one day the previous week fifty-six telegrams had passed through his hands, most of which were received for passengers. This wireless on trains is a great boon to busy business people, as it helps to facilitate appointments in particular. It has another purpose.

There are many hoboes—knights of the road—who still travel via "side-door" Pullmans and who are frequently put off trains on which they are stealing rides. In the past these riders have been able to conceal themselves from the eyes of the train crew.

Adding an Audio Stage

To Increase Volume and Quality

SEVERAL correspondents have asked how an additional audio stage may be connected with their receiver, and the following remarks, probably somewhat unnecessary for the experimenter, should, nevertheless, clear up the problem for these people.



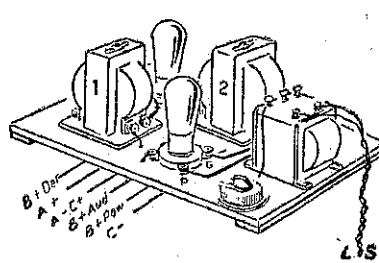
A single stage detecting valve to which an audio stage may be added.

An extra audio stage can be added only to small receivers where the previous audio valves do not exceed one. Three audio stages introduce very many troubles, and the extra amplification secured thereby is spoiled. Small sets comprising detector alone, detector and audio, and radio, may have an audio stage added in the method described.

Diagram 1 depicts a crystal set with a one-valve amplifier, and this will be taken as a typical example from which to add another stage. It will be seen that the plate of the valve is connected with one of the speaker terminals, the other terminal being connected to the B battery.

The first step is to remove these terminals and replace them by an audio

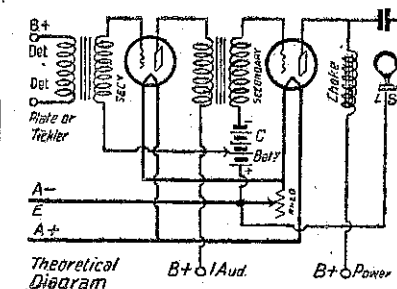
frequency transformer. Obtain a good make, which will cost from 17s. 6d. upwards. Connect the plate lead to "P" of the transformer, and "B+" (of the transformer) to about 67½ volts, unless this is the detector, in which case the applied voltage will be considerably



Layout after second stage has been added.

lower. Connect "G" of the transformer by the shortest lead possible to "G" of a valve socket, and take the plate of this to the speaker terminal. By connecting the highest "B" voltage available (about 90 volts) to another terminal, the speaker may be connected.

"GB" or "C" of the transformer just added is connected to a negative tapping of a grid bias battery, and the positive of this is connected to "A-." The "A" supply for this last valve may be derived from taking a lead from each side of the preceding valve or from the two wires from this valve at a point nearest the new socket. If the



Two stages of audio which may follow a single valve or crystal.

voltage is higher than that stipulated on the valve cartoon, put a resistance in one of the leads. This resistance may be a variable rheostat or a fixed resistance of the amperite type.

So much for the actual connections. A very important part of this is the layout. The transformer should, if possible, be at right angles to one another, and the grid and the plate wires short, and free from one another. Keep these above the baseboard, which should be either of a non-conducting substance such as fibre or well shellaced timber. For best results, the whole audio stage should be remodelled, and to facilitate the layout several diagrams with explanatory notes have been appended, and these should make quite clear any difficulties. Grid bias on the first audio valve is essential only where very high voltages are to be used.

Shore to Ship Wireless Telephony

A UNIQUE feature in Australian journalism, and also in Australian wireless was carried out in Sydney recently, when a wireless telephone conversation was carried out by representatives of one of the evening papers and of a motion picture trade journal, with a passenger on board the s.s. Sierra, when the latter was 370 miles from Sydney.

The interview was made possible by the courtesy of Mr. E. T. Fisk, managing director of Amalgamated Wireless. From a room at the Sydney office representatives of the two journals, and officials of the Fox Movietone Co. spoke to the Sierra by radio telephone. The conversation was carried out through A.W.A., Radio Centre, Pennant Hills, Sydney, but, unfortunately, owing to the Sierra not being equipped for modern wireless telephony, the replies of Mr. S. Crick, managing director of the Fox Movietone Co., who was the person interviewed on the Sierra, had to be transmitted from the ship by Morse code. These messages were then received at the station at La Perouse, and transmitted by land line to the city office of the company.

The newspaper representatives spoke through the office telephone in exactly the same manner and with the same facility as they would in the conduct of an ordinary land-line telephone. The interview by wireless telephone was entirely successful, the Press representatives asking Mr. Crick many questions regarding his impressions of the state of the moving picture industry in the United States, especially with regard to the talkies and their future development.

Mr. Fisk has carried out several telephonic conversations with the United States, Berlin, Java, and several other overseas countries, but this is the first time that a Press interview has taken place between Australia and an ocean-going liner.

400ft. Aerial

G. F. RICKETT, Hawke's Bay, writes saying that in connection with a recent correspondent's trouble with a 150 feet aerial, he has an aerial 400 feet long. "With the long aerial, I think I get less static. The tuning is slightly broad, but I can get distant stations much better, as I often receive American stations with a volume equal to the local ones."

"Last Monday, the description of the landing of the Graf Zeppelin at Los Angeles came through from two stations, KHJ and KFI at full loudspeaker strength. This last few days I have been getting WENR, Chicago, as good as a local station (from 4.30 to 6 p.m.)."

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Electric Gramophones and Parts

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.

We stock **ELECTRIC MOTORS, PICKUPS, AMPLIFIERS, VOLUME CONTROLS**, etc. for Gramophone home builders.

Write for full details to—

THOS. BALLINGER & CO., LTD.

58-62 VICTORIA STREET, WELLINGTON

"WHERE THE QUALITY GOODS ARE SOLD"

"Danger."

I TAKE this opportunity of expressing our appreciation of the second presentation of the radio play "Danger" from 2YA on September 2. As far as we are concerned down here, Mr. Victor S. Lloyd and party are firm favourites. Their plays and sketches are excellent, also Mr. Victor Lloyd's unusual experiences, which he relates in such a fascinating manner. We also consider the Melodie Four to be the best quartet heard from any of the YA stations, and thoroughly enjoy all their items and their good-night song. We would be very pleased to see their photos in the "Record" in the near future. We realise that it would occupy too much of your valuable space to throw bouquets at all 2YA's artists, but we consider every one to be excellent. 2YA would not be 2YA without Mr. Announcer—we look upon him as a personal friend. As for the constant growlers whose fault-finding letters appear from time to time in your paper. Their grievances are about as numerous as bristles in a clothes-brush, and our advice to these faultless people is for them to spend two shillings in your For Sale column, and if they are lucky to invest in a better receiver or leave listening to more satisfied people. Mr. Drummond's pleasant "G-o-o-o-o-d Night" has encountered much sarcasm, but if they would tune in (if possible) to 2GB, Sydney, on a Saturday night and hear the closing announcement perhaps they would not have so much to say regarding 2YA. Carry on the good work, YA stations.—"Satisfied Listeners" (Dunedin).

Trio Appreciated.

MAY I be allowed to express my appreciation of the playing of an instrumental trio (Messrs McLean (2) and Izett) at the Port Nicholson Band concert last Sunday. After hearing so much singing from 2YA, well-played instrumental numbers prove a welcome relief, and the trio's items were very well chosen. To those listeners who enjoy tuneful music, the items were a treat, and we are all looking forward to hearing this fine trio broadcast again.—J. Hughes (Wellington).

A Good Hefty Growl.

WE no sooner get over one infliction, than another is upon us. I refer to the gramophone selections of Grand Opera. Carmen has just died, now "La Traviata" is born. The programmes of late have been about fifty per cent. (more or less) gramophone records (25 per cent. is the contract limit). Most listeners, I am sure, have gramophones in their own homes, and are quite capable of operating them, so do not want "canned" music dished up to them continually over the air. Why not cast out records from the evening programmes? We all know that the gramophone and a few records in the studio is a cheap way of running the station—but is it giving service? Why not get a trio to broadcast for the dinner music session? The constant habit of putting on one programme and getting the other stations to rebroadcast it is, in my opinion, a poor way to increase interest in radio. The impression I have is that it is the Radio Broadcasting Co.'s idea to run the business as cheaply as possible, and not worry about giving the listeners a good service. (There is not object in running it cheaply, as "profits" are limited to 7 per cent. on capital. The only business procedure is to give the fullest value on the revenue available.—Ed.)

Our Mail Bag

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.

It is amusing to read your reasons why listeners in should endeavour to rope in new enthusiasts. I myself would not advise any of my friends to buy a radio to listen-in to the YA stations, for without the Australian stations I am sure they would soon use the axe. Improvement in broadcast service is what is wanted first.

Now for a few questions and suggestions, which, I suppose, will be committed to the waste-paper basket: (1) Why the continuous closing-down of stations? For instance, if a lecture is concluded at 7.50 p.m., the station goes off the air for 10 minutes. This is most annoying, and one has to look for a station that is on the air, and giving service. (2) Tacet from 2YA. The ridiculousness of this—before the clock has stopped chiming—on with a record. Result: Distortion. Then, in 10 minutes' time, all the rush and bustle is over, and "tacet" is upon us. (3) Sundays. Not so many religious relays in the afternoons, and in the evenings a church service from 1YA and 3YA, while the other two stations put over a popular programme. The following Sunday reverse the order. (4) When will the silent day become an active day? Shortly, I hope. Then we will have more people taking out radio licenses. Looking for some much-needed improvements.—"Disgusted" (Invercargill).

Racing Broadcasts.

I AM writing to you on behalf of some seven of us—all license-holders. We read the last issue of the "Radio Record" and noted with interest our local agent's (Mr. Moses) letter re the broadcasting of races. You people have done your bit, as we all unanimously admit, and we also know that you have been broadcasting races under awkward difficulties since the Racing Conference placed the ban on broadcasting from the actual course enclosure. We read the article mentioned by Mr. Moses, in a previous issue, referring to abandoning race results altogether, and we sincerely hope that the occasion will never arise when this step will be taken. We people up here in the North, and the racing fraternity here are many, cannot possibly get away to meetings such as the Grand Nationals and Wellington—even Auckland is beyond most of us—but on that account it does not seem fair that the Racing Conference should shut us right out from hearing the thrilling and excellent announcing that people hang breathlessly over a loudspeaker to hear. If it were possible to go to a race meeting, nothing would prevent the average racegoer from being there. The whole trouble seems to be that the powers of the

Racing Conference think that broadcasting feeds the bookmaker. What utter rot! The bookmaker can get all the information he wants from certain quarters; he wants his prices, too, not only results. We know people with whom we come in contact every day who have never had any transactions with a bookmaker in their lives, yet they will sit around a loudspeaker all day to listen to the racing come through. All classes of sport come to us per radio (any very good, too), so why should racing be barred to us purely on account of the bigotry and monopoly of the Racing Conference. We are not children, but the Conference evidently treats us as such.—"The Sport of Kings."

Radio Announcing.

ALL who are interested in the English language and in the English-speaking people, must realise that we can form no conception as to what extent our language will be influenced by radio, and therefore it is our duty to watch jealously any new changes introduced, particularly in pronunciation. It was for this reason I sent a few lines to your valuable paper. Mr. Harris, the general manager of the Broadcasting Co. is a live wire, and having spent some years in New York, is on the alert for anything up to date. If we supply a sufficient number of subscribers, he will see that the company delivers the goods. They are serving the public, and I claim that we have as much right to criticise the servants of the company as we have to criticise New Zealand Railway servants or Post Office officials. Healthy criticism is good, and I am pleased to say the "Radio Record" welcomes it. I have never in my life hit a man who cannot hit back, notwithstanding "Champion" (of one who cannot hit back), and I can assure that "Champion" I do not feel at all squashed, and that I have lost no sleep since his verbose vituperation appeared in print. In any case, I shall not be drawn into a controversy, but would like to tell "Hetrodine" and "Way Back" that they have missed my point. I did not object to any good-night, but I did point out how absurd a "Thank You" was after Mr. Announcer had given a list of news items, or other particulars. Not that that matters, but the "Thank You" should be at the other end of the wire, or wireless. Some time ago a big gun in the radio world appeared in New Zealand, and was received with open arms by all. He made a beautiful kick-off, but success was too much for him, and in a few months his hat was too small, and his first-class pronunciation drifted after this fashion: "The

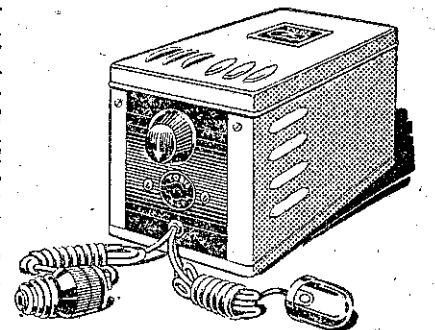
doctah said the fevah was in the house near the theatah," and so he had to move on, and, I think, rightly. I have listened to Walter Bentley, Borodale, Jas. Carroll Hutchinson, Hight and others, and I am always delighted with really good style of speech, and particularly with good pronunciation.

Mr. Announcer at 2YA is not, in my opinion, the best announcer in New Zealand, but he is good, and I am delighted to notice that he has in the past few weeks dropped that nice drawing-room style, and the past week his clear-cut speech has improved 100 per cent., and is conspicuous for its absence of frill, and I hope it will continue so, as over the air we want nothing but plain stuff, and the plainer the better. I would like Mr. Ball to continue his talks on Foreign Policy, and would suggest he gives us a quarter-hour talk, say twice weekly, in the dinner music hour.—"Lux Cum Amore" (Ohakune), 30/8/29.

Dinner Music.

I SUGGEST that the dinner music be arranged at different hours from each station. I am satisfied that not one listener appreciates the hour. If music is not required, the remedy is in his own hands.—"Milton" (Southland.)

Install the TOBE "A" Eliminator



---cuts out the "A"
Battery
with its trouble, mess and disappointments

JUST
PLUG IN
YOUR
ELECTRIC
LIGHT
SOCKET!

The TOBE "A" is of superior design, assuring satisfactory service. Component parts are of heavy, solid construction. Guaranteed for one year. Price only £8/5/-. Call or write for particulars.

Waterworths Ltd.,
216 LAMBTON QUAY,
WELLINGTON.

Noises and Their Elimination

(Continued from Front Page)

IF this test reveals that any of this apparatus is giving trouble, the supply must be filtered. Filtering methods should be considered under the following headings: (a) Filtering directly at the device by the use of a 1 mfd. condenser shunted across the terminals can eliminate 90 to 100 per cent. disturbance. (b) By filtering at the meter from 80 to 100 per cent. may be eliminated. (c) Filtering at both points, A and B, may be necessary in bad cases. Filtering directly at the receiving set can eliminate 25 to 90 per cent. of the disturbance. Further types of filtering devices for stopping electrical disturbances are as follow: (1) Single condensers from $\frac{1}{2}$ mfd. to 1 mfd. or more capacity having a D.C. test of 400 volts or over. Simply connect a condenser across the spark or are direct or connect a non-inductive resistance of 1000 to 30,000 ohms in series with a condenser and place this combination across the arc. If this interferes with the functioning of the spark, see method 2. Another cure is to connect one leg of a small condenser, say, $\frac{1}{2}$ mfd. capacity, to ground, and the other leg to each side of the power lines in turn. When connected to the positive side, much noise will be prevented. If the plug to the electric device is reversed the noise will again be bad. In this case reverse the plug or connect the device in figure A to the line. (b) Double condenser filters. These are very effective for small motors such as sewing machines, vacuum cleaners and electric gramophones. Where one condenser bridged across a spark gap in series with a resistance interferes with the spark use two condensers in series with a centre resistor of 1000-2000 ohms between the centre taps of the condensers and the ground connection.

Combined Choke and Condenser Filters.

2. Switch off the light current at the point where it enters the house. If, after the opening of the master switch, the noise continues it is safe to assume that the trouble is outside the home, and the authorities, whoever they might be, should be communicated with.

3. Aerial and earth. Note the condition and position of these. Where an electric appliance is grounded through the earth connection of the wireless set it is possible for a high-frequency interference to feed back through this source. Likewise, any other metal in the building may carry disturbances into the set. The remedy is to have a separate and independent earth contact with the set. Keep the ground lead-in wires as short as possible. If the aerial runs close or parallel to power lines it should be turned round at right angles to it and made as short as possible. A counterpoise earth will quite frequently help to reduce interference.

THIS concludes the search for the city dweller who has at his hand power companies and sympathetic post and telegraph officials. In the case of Wellington listeners a very wise plan has been adopted by the Post and Telegraph Department,

and listeners who have failed to locate interference by the above tests, should communicate with them. Upon receipt of this communication, the Post and Telegraph Department forward a form, a copy of which appears on this page. They are asked to make their observa-

The Listener Outback.

THERE exist a proportion of the listening public who are so remote from city and town that they have to rely on the power derived from motor or water generators for their

when both are clean function without sparking or interruption. Dirt and corrosion alter the whole performance, sparking occurs and the surface becomes pitted with the result that more sparking occurs.

The first and obvious treatment of such a case is to clean it. Cleanliness saves the upkeep and service and is an economical procedure. Even a sparking commutator will not cause a great deal of trouble if the iron shell of the motor were grounded, but surveys have shown that old motor installations were frequently made on wooden supports insulated from the ground. Grounding must therefore be listed as a second step. If the interference still persists connect a 2 mfd. condenser tested to stand 1000 volts D.C. across the brushes.

The design of the filter varies somewhat if the line is less than 600 volts and ungrounded. In that event, two condensers ground at their common lead may be used as shown in upper diagram.

When a source has been found and the foregoing treatment is not applicable, the interference is most effectively suppressed by connecting a filter in the line which supplies the current to the electric device which is causing the trouble. If it is not possible, such a filter may be connected in the line at the main switch, or even between the plug socket and the radio set, though in this case, less noise will be eliminated than if the filter is installed at the source.

Suitable filters are in general of low cast type, i.e., they will readily pass the 60-cycle current and block the higher audio frequencies which constitute the noise. In some cases, it is sufficient to connect two fixed condensers between the two sides of the line and the ground. Then simply by-passing the audio frequencies. In more persistent cases, it is necessary to insert choke coils so as to block the high frequencies, and allow them to be by-passed to the ground, as in lower diagram. This circuit is applicable to four-fifths of interference trouble.

A suitable filter can be made by anyone who is at all handy with tools. The chokes may consist of 100 turns of wire each banded round on a double wooden hobbin or fibre cylinder. They may even be wound as an ordinary radio coil on a fairly large former. No. 14 D.C.C. wire should be used for 2 amp. load. No. 12 for 6 amps., and No. 10 for 9 amps. Each layer should be separated by a covering of empire cloth. The condenser should be tested or have a working voltage higher than that to be handled. They should be installed in metal boxes, their capacities being 1 or 2 m.f.d.'s. It should be borne in mind when installing any of these devices that large capacity condensers contain wax, and therefore should be placed where heat generated by the motor will not affect them.

Bad contacts in power lines as well as in the radio set itself are a very common source of interference.

Loose fuses, loose connections, insecure light sockets, cause a great deal of trouble, besides which they constitute a fire risk. Most of these have fallen under the heading of defective household apparatus.

POST AND TELEGRAPH DEPARTMENT.

PARTICULARS IN RESPECT OF INTERFERENCE TO RADIO BROADCAST RECEPTION EXPERIENCED BY

To	Name
The Radio Inspector,	Address
P. & T. Laboratory,	
Hope Gibbons' Bldgs.,	Telephone No. (if any)
Wellington.		

- When did you first notice the disturbance referred to?
- Does the interference occur during the day-time?
- Is it continuous or intermittent?
- At what hours is it most severe?
- Is the disturbance a hum, buzz, squeal, hiss, tapping, crackling, frying, or roaring noise?
- How many other listeners in your vicinity are having the same trouble? (Give addresses below, together with particulars of set used in each case, i.e., crystal set or valve set.)
Address Set
- Type and make of your radio receiver.
- Has the following test been made? If so, with what result?
With antenna and ground leads disconnected, and these terminals shorted by a piece of wire, is the disturbance experienced when the receiver is operated in the usual manner?
- Can the interference be tuned to a maximum on your receiver? If so, near what broadcasting station's wave?
- Is your aerial in close proximity to, or does it run parallel to, (a) telephone leads, (b) power lines?
- How far is your receiving station from the nearest tram route?
- Do you use (a) "B" eliminator? (b) Battery charger? (Please state type and make.)
- When will there be someone available at your address to operate set—
(a) During day-time.
(b) During evening.
And further remarks.

tions carefully and by doing this they will materially aid the Department's officials.

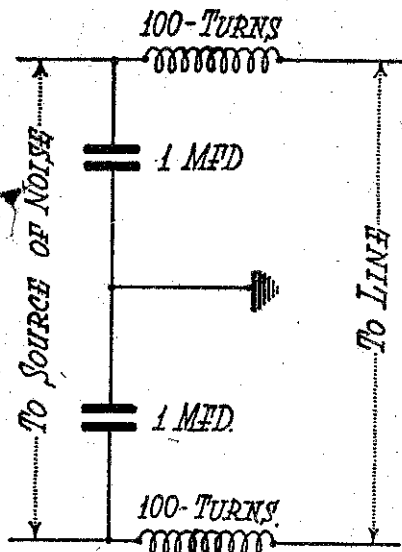
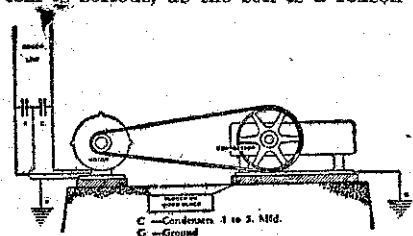
THERE are a very large number who are outside the cities, and who cannot call upon the assistance of a trouble-seeking van. A large proportion of these have recourse to power boards, and providing the trouble is located in their power lines, the individual listener need worry no further.

power. These are more often than not the cause of interference. Motors in all their special forms cause a great deal of noise to the adjacent receiving set.

A motor consists of an armature revolving in a strong magnetic field. The driving current passes first through the armature whence it is used to excite the field magnets. It then passes to the windings of a revolving spool, and this can be done only by sliding contacts called brushes. The brushes press down on a drum of copper, and

THERE is another classification. Static brought about by belts and printing presses, although this interference is highly local and of little or no importance except where sets are operated in industrial areas, and quite a large number are. Condensers and chokes are of no use in the solution of such problems. Grounding the frames of the machinery is the first step. The second, to provide some form of brush collector that will remove the static charge from the belt or paper without sparking. A lead from the connector to the ground is the only requirement.

Investigations where farm lighting plants are in use shows that a large proportion of interference arises from poor grounds. In sandy districts, such as near some of our coasts, the problem is serious, as the soil is a reason-



ably good insulator. Moistening of the earth about the ground connections has little effect. It is recommended for such localities that the ground be attached to a pipe driven down into the soil at the bottom of a well. It might be attached to an artesian bore, or a windmill.

Interference from farm lighting equipment is sometimes difficult to trace because of the multiplicity of spark producers that may be found in such an installation. All of these plants consist of some driving mechanism, a dynamo, and a storage battery bank either active or floating in the system. The driving mechanism is usually a gasoline motor with spark plugs and magneto. In other cases, it is a water wheel.

The elimination of trouble in such systems will require a variety of treatment. A small condenser usually about .25 mfd. connected across the sparking contacts, in the ignition system, should end the trouble from that source. It may also be necessary to shield the magneto and ground the shield. Commutator troubles such as

have been dealt with are quite common. If there is a make and break contact device, it will have to be shunted by a condenser similar to Diagram 1. It has been found that .25 mfd. condensers are almost standard for all filaments affecting small motors. For larger motors a condenser of from 2 to 8 mfd. may be necessary, but these are not common, and usually fall under the supervision of the power boards concerned.

Recapitulation.

NOISES in a radio receiver may be classified into two broad groups. Noise within the set, and noise extraneous to it.

2. Noise within a set may be tracked down by systematic search. Noise outside the set, either by a complaint to a power board or other influential body, or by an examination of electric motors and other likely sources.

3. Most interference of this type is the result of defective contacts which result in high-frequency current.

4. This interference may usually be ended by the application of a filter.

5. A filter may consist of a simple fixed condenser, two condensers in series, with a ground lead from the point of their connection, or two condensers so connected and used in conjunction with a radio frequency choke.

Rejuvenating Dry Cells

THE following will, I think, enable dry cell users to get the last kick out of their batteries (writes Mr. W. H. Davies, Christchurch).:—Drill a small hole through the sealing compound in the top of the cells, and be sure the drill touches the manganese, as some of these cells are double sealed. Put a few drops of liquid ammonia into each cell with a medicine dropper. When this has soaked in seal the holes with paraffin or sealing wax. I noticed this tip in the "Popular Mechanics," and have found it to work with run-down flash light cells with considerable success.

Simple Polarity Test

BUSY amateurs on the look-out for a rough-and-ready, but nevertheless satisfactory test for determining the polarity of their batteries, cannot do better than employ the following method, which although, of course, not being as sensitive as the more refined chemical tests, works quite well on potentials of over four volts.

The test is simplicity itself. Take an ordinary potato and cut a slice from it. Apply to the surface of the slice the battery electrodes, keeping them about half an inch apart. After about ten seconds' contact with the freshly-cut potato surface the positive electrode will give rise to a dull-green mark, the area of contact of the negative electrode remaining unstained.

A freshly-cut onion gives somewhat similar results, the stain, however, at the positive pole, in this case, being brownish. The onion test, however, is rather less sensitive than the potato test, requiring higher voltages in order to give results.

RADIO DIRECTORY

What to Buy and Where

CITIES

- AERIAL MASTS** Domestic Radio Co., Ltd.,
300 Queen Street, Auckland.
- ALTONA & HAMMARLUND.** Johns, Ltd.
Chancery Street, Auckland.
- ATWATER-KENT RADIO** .. Frank Wiseman, Ltd.
170-172 Queen Street, Auckland
- BURGESS RADIO BATTERIES,** All Radio Dealers.
- CROSLY RADIO** Abel, Smeeton, Ltd.,
27-29 Customs St. E., Auckland.
- CROSLY RADIO RECEIVERS** G. G. Macquarrie, Ltd.
120 Willis Street, Wellington.
- CROSLY RADIO** Abel, Smeeton, Ltd. Rep.: T. MOSES.
James Street, Whangarei.
- DAYTON All-Electric Radio** ... Superadio, Ltd.,
147 Queen Street, Auckland
- EMMCO RADIO PRODUCTS** Johns, Ltd.,
Chancery St., Auckland.
- EMMCO RADIO PRODUCTS** Thos. Ballinger & Co., Ltd.,
Victoria St., Wellington.
- EMMCO RADIO PRODUCTS** L. B. Scott, Ltd.,
Worcester St., Christchurch.
- KING RADIO RECEIVERS** ... F. J. W. Fear & Co.,
83 Willis Street, Wellington.
- LISSEN RADIO PARTS AND KITS** All Radio Dealers.
- LOUDSPEAKER AND TRANSFORMER REPAIRS** A. E. Strange,
404 Worcester Street, Christchurch.
- MAJESTIC RADIO RECEIVERS** Kirkcaldie & Stains,
Chief Wellington Agents, Lambton Quay.
- MULLARD VALVES** All Radio Dealers.
- PILOT 1930 PARTS AND KITS, ETC.** Abel, Smeeton, Ltd.,
27-29 Customs Street East, Auckland.
- PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and ATWATER KENT SETS** Harrington's, N.Z., Ltd.,
138-140 Queen St., Auckland.
40-42 Willis St., Wellington.

- RADIOLA RECEIVERS** Chas. Bennett, Ltd.,
619 Colombo Street, Christchurch.
- RADIOLA RECEIVERS and Expert Radiola Service.** Farmers' Trading Co., Ltd.,
Hobson Street Auckland.

- RADIO REPAIRS AND SERVICE** E. G. Shipley,
185 Manchester Street, Christchurch.

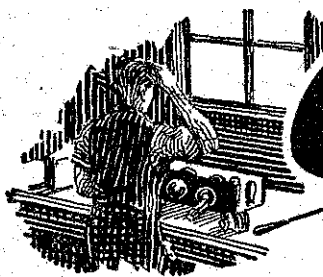
- DIAMOND DRY BATTERIES** Royds-Howard Co.,
553 Colombo Street, Christchurch.

COUNTRY TOWNS

- CROSLY RADIO** J. C. Davidson,
Main Street, Pahiataua.
- CROSLY SETS** Abel, Smeeton, Ltd. Rep.: C. Ruscoe,
400 Devon Street, Palmerston North.
- CROSLY RADIO** D. A. Morrison & Co.,
Victoria Avenue, Wanganui.

- MAJESTIC, ATWATER-KENT AND APEX ELECTRICAL SETS.** Also Bremer-Tully, Radiola and Browning-Drake

- PHILIPS VALVES AND APPARATUS** All Good Radio Dealers.



Questions and Answers



Condenser Control Reaction.

COULD you publish a circuit of "Pentode's" crystal and valve, using condenser control reaction? "R.J.H. (Christchurch).

A.: Construct the Tetrode crystal and amplifier described in our issue August 9, 1929, but if you prefer to do so, use the three-electrode valve in place of the tetrode.

Logging the Japs.

WHY cannot we get the Japs. and the Americans? asks "K.J.S." (Blenheim).

A.: We cannot say! You have given no particulars of the number of valves you are using, the voltage applied to the valves, the state of your batteries, or the condition of your aerial and earth.

Crystal Set Problem.

COULD a crystal set be constructed to receive short-wave? asks "C.W.V." (Wellington).—No.

2. On what band do the commercial and ship Morse stations operate?

A.: Below 500 kilocycles, or above 600 metres.

List of Stations Required.

WOULD you give a list of some high-powered American stations? asks "Listener" (Southland).

A.: Such a list was published in our issue of January 4, 1929.

Artificial Static.

"SATISFIED" (Westport) asks the following questions:

1. Will old valves make a receiver howl when tuning in?

A.: Very rarely. Only occasionally do old valves develop unusual symptoms. The general sign is all-round weakening.

2. My set is reproducing artificial static but my "B" and "C" batteries are new.

A.: See our article on interference.

3. My "A" battery positive plates are scratched. Would this cause the static?

A.: It will probably denote that the battery is worn out, and this could account for the static.

4. How may I test my transformers?

A.: Connect a pair of telephones (or a loudspeaker) to a battery, so that one terminal of each is free. Touch these two terminals, and a loud click will result. Place these on the terminals of the transformer to be tested, and a click should result when the two primaries or two secondaries are touched. The two primaries are denoted usually by "E plus" and "P." If a click does not result, or if a click results by connecting one primary to one secondary, the transformer is defective.

The Browning-Drake.

WHICH is the better set to construct, asks "K.D.R." (Kaiwarra). The S.G. Browning-Drake, or the 5-valve shielded Neutrodyne?

A.: For tone the Neutrodyne will probably will be better, but for best all-round qualities the two R.F. Browning-Drake, for simplicity, the A.C. Browning Drake, which is best.

An Output Filter.

"A.J.J." (Auckland) sends a sketch of an output filter. He asks which of the leads is plus and which is minus.

A.: Once having passed through the output filter it is immaterial which side is connected to the speaker.

Valves for Testing.

HAVING ruined three valves, states "N.D.C." (Auckland), I wish to use the base of one in conjunction with an electric flash-lamp as a safeguard.

A.: As you suggest, cut away the glass of the detector valve and solder the filament leads to a 1.5 volt torch battery. This would blow out when more than about 2.5 volts were on the filament.

Distortion with Fading.

I HAVE a good log, writes "J.B." (Murchison), and wish to strengthen the reception of weak stations with little cost. I have a good aerial and earth.

A.: There is little you can do without adding another radio stage, which would cost you probably £1 10s.

2. When the station fades, distortion occurs. Is this usual?

A.: A certain amount of distortion is always caused when a station fades, but it is rarely perceptible to any more than the trained ear. However, it appears that you do not appear to have enough grid bias on the last valve. Increase this to about 12 volts.

3. Can you give me any information regarding the Air Line 6? I would like a circuit diagram.

A.: We are sorry, but we do not have details of this set. Probably it is a six-valve neutrodyne.

A Request.

AS you are going to publish an all-electric edition, would you kindly give an article on the construction of an "A" eliminator for a two-valve amplifier? writes "G.H." (Wellington).

A.: With the greatest of pleasure.

Burnt-out Rectifier.

"G.H.J." (Mangaweka) has found that his new gaseous rectifier has burnt out in six weeks, whereas the one pre-

vious to this lasted for ten months. He states that he discovered that his "C" battery had been disconnected.

A.: Unless the rectifier was built to rectify less than 50 milliamperes per hour, the fact of the "C" battery burning out would have no effect. The defective "C" battery means that the power valve was drawing its full rating of current, which may, in some power valves, go up to 50 milliamperes. However, the usual filamentless rectifiers would deliver over 100 milliamperes. It appears rather that the valve was defective.

Volume Control.

"S.O." (Ngaio) wishes to know how he might control volume without spoiling the quality of his two-valve amplifier.

A.: Secure a variable resistance of 0 to 10,000 ohms and place this between the aerial and the earth.

Battery Charger Problem.

HOW can I use a vibrator charger delivering 6 volts to charge a 4-volt or a 2-volt accumulator, when only one tapping is provided, asks "R.H.P." (Southbridge).

A.: A very heavy resistance of $\frac{1}{2}$ ohm, in the case of the 2-volt accumulator, and a $\frac{1}{4}$ ohm, in the case of the 4-volt accumulator, must be placed in series with one of the leads to the accumulator. The carrying capacity of this must be at least 8 amps. The charging rate would also be reduced.

Linen Diaphragm Speaker.

"T.S.E." (Blenheim), asks if window blind material will be suitable for the linen diaphragm loudspeaker, but it is rather too heavy. Suitable linen material can be obtained from George and Doughty, Victoria Street, Wellington.

2. Where can I obtain a suitable unit?—Try Smyth and Co., Victoria Street, Wellington.

3. Is the enclosed circuit correct?—Yes, from what we can see of it.

The Two R.F. Browning-Drake.

WILL the Two R.F. Browning-Drake work from an electric B eliminator? requests "Newcomer" (Cambridge).

A.: Yes, very well, because his voltage can be obtained for the last valve. If filament winding are provided the power for this valve can be drawn from this source.

2.—Is it possible to construct the radio stages and detector, and pick up the main stations with 'phones. I wish to get this part of the set working before adding the audio stages.

A.: A good idea. It will work quite well.

3. Where can I obtain an illustration of the Two R.F. transformers showing the method of mounting?

A.: Tuning coils were fully discussed by "Megohm" in our issue of July 5, 1929. A diagram is given on page 30 showing precisely how this is accomplished.

4. Which of Philips valves are suitable for the R.F. stages, and what is the number of turns required in the primaries, and what is the value of the rheostat to control them?

A.: 609's with twelve turns on the primaries, that is providing the tuning condensers are .0005, and the secondary

V1



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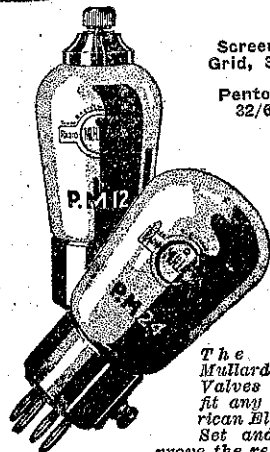
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Screened Grid, 30/..

Pentone, 32/6.

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

56 turns. A rheostat will be unnecessary unless for a volume control.

5. What B voltage is required for the radio frequency valves and the detector?

A.: The voltage varies, usually about 60 for the R.F., and from 45 to 22½ for detector.

Screen Grid as Detector.

"S.W." (Southland) asks:—

1. Would a screen grid work as a detector and give approximately maximum amplification?

A.: Screen grid as a detector has been tried out in only a few cases, and it has generally proved less satisfactory than the ordinary triode.

2. Would the screen grid require a tickler?

A.: No, it is impossible (so far) to use regeneration with this valve.

3. Would it detect on short wave?—No.

4. Would the A.C. impedance be quite suitable for ordinary transformers?

A.: No, a resistance of 500,000 ohms in the anode would be required.

5. Would two stages of resistance coupling work as push-pull?

A.: Not satisfactorily; by doing this resistances are placed in parallel, their value lowered, and the efficiency lost.

Changing Valves.

MY five-valve Neutrodyne is equipped with American valves, which seem to have lost their emission, writes "Beginner" (Bunnythorpe). Could you advise me what valves to use to bring my set up to date?

A.: You cannot improve on the valve combination you already have, unless you wish your set to handle greater volume. In this case, use the 171A in the last stage, with 20 volts bias at 135 volts anode. The use of this valve, however, will slightly drop the volume level. You should use 9 volts bias on the 112A. Your aerial and earth are quite O.K.

Rejuvenating Valves

"KAUSPANKA" (Taradale) wants to know this procedure.

Connect the filament legs of valve across the terminals of a 22½-volt battery for 45 seconds, but no longer. Then disconnect all "B" and "C" battery leads from set, insert valves, and turn on filament switch, and leave for six hours. Soft (detector) valves cannot be rejuvenated.—W. D. Campbell (Waipawa).

ONE of the best preventives of threshold howl in a short-wave set is to use an output filter of the L.F. choke-condenser type.

AS smooth reaction is absolutely essential to successful short-wave reception it is no early use buying short-wave coils for a set which is troubled with plopky or fierce reaction.

DX Notes

An American to Identify?

ON August 30 I picked up an American between 2QB and 3UZ. He signed off at approximately 7.30 p.m., and the call sign sounded something like KF—B. Could any listener identify this station?—D. Jemmett (Gordonton).

Sydney on Crystal.

MR. W. G. McKAY (Wanganui) writes: In a recent issue of "Radio Record" I saw where a radio enthusiast in Dunedin had logged 2YA, Wellington, on a crystal set. On Tuesday, Wednesday and Friday of this week I have received 2FO (Sydney) on an ordinary crystal with remarkable volume. I have written to 2FO reporting the items I received. I have never heard of anyone else getting Australia on a crystal set.

A Very Distant American.

ON Wednesday, August 28, at 7.15, I logged station WITC, Hartford, Connecticut (U.S.A.). The announcer's voice came through very clearly, although slightly husky. After giving the station call he announced that testing was being carried on with power of 25 k.w. Mention was made of reports received from California, and an invitation given to listeners to furnish further reports. The announcer stated that they would gradually increase power. (Their power is given in "Listeners' Guide" as 50 k.w.) Listening was rather difficult on account of 2KY working on the same frequency.

Has any other D.X. friend been able to reach as far as this? Hartford is over 100 miles north-east of New York. I am using a four-valve regenerative set with 90 v. on B battery.—E. H. White (New Plymouth).

Two Americans to Identify.

WOULD you give the locality of two American stations heard on the speaker? Station W1XG heard last night (August 31) on 32½ dial, about 290 metres. We got his call letters and music quite distinctly, but static robbed us of locality each time. We got station WOW just below 2FC, but the same thing with it, and then 2YA broke in and we left. Re 2YA and distortion, on the majority of nights it is free, then we get a period when it is bad. To-night during the church service there was quite a great deal. We live six miles from town, and have an automatic telephone. We notice that when using the 'phone each time the dial is rotated it can be heard dis-

tinctly in the speaker. I would like to make a third to that motion re old-time dance music.—"Puzzled" (Masterton).

[W1XG was reported in last week's notes.]

The Bells of St. Paul's.

USING a 4-valve all-wave receiver I tell you I get plenty of fun, and I suppose if I cared I could get almost a 24-hour service. A while back I used to think it great to hear VK2ME having a chat to GBX, Rugby, England, and on one occasion I heard the announcer at GBX say to Sydney to stand by while he held the microphone at the window to see if Sydney could hear the bells of St. Paul's Cathedral. I heard them rather well. As a matter of fact I think I heard London more clearly than Sydney. On different occasions Mr. Farmer, of VK2ME mistook the names of different gentlemen who were introduced to him over the air. However, it seems just an every-day affair now, and one can almost rely on finding 2ME on the air with CJA, Canada, Suva, or some other shortwave station. I have heard a few other short-wavers, but perhaps not as many as some of our friends. On the broadcast band we certainly get a good variety; some evenings one can hardly move the dial round—a station every few degrees. Congratulations to the young stations, such as New Plymouth, Gisborne, Palmerston North, Napier, etc. I have heard them with excellent results. If this should meet the eye of "New Chum, Timaru," of your issue of September 6, I would be glad to have a line from him.—Albert C. Martin (Temukū).

WHEN a new set is being assembled have a piece of soap at hand and push the screws into this before attempting to drive them, as this makes a surprising difference to ease of working.

ONE of the advantages of using a good solid coil tube instead of a flimsy cardboard is that the terminals can be securely mounted upon the former for the purpose of connection.

Nelson Amateur Radio Club

THE Nelson Radio Club is growing larger every week, but as yet it is no rival to the Hastings one, which is to be congratulated upon the concert it relayed. The Broadcasting Company as well must come in for a large share of praise for the way the relay was handled. The concert was listened to here with pleasure from start to finish, and it is hoped others like it will follow.

There have been two meetings of this club since the last notes appeared. At one, in the unavoidable absence of the president, Mr. C. Lewis presided.

Mr. Askew (of Messrs. Wilkins and Field) gave a demonstration of the latest all-electric Majestic receiver, and Mr. Shea gave an instructive talk on gramophone pick-ups. The thanks of the club are due to both these gentlemen and their firm for their time and trouble.

At this week's meeting the president (Mr. C. Page) gave a lecture on "Trouble Finding" and spoke on how to test component parts for faults and remedy them when found.

The humble crystal set is of no use in this town, and many people are not listeners because, although they believe the valve sets to be efficient, they are too expensive for them. The club, with the help of the more experienced members, hopes to be able to help members to build quite good sets for the price of the parts. In this way both the trade and the Broadcasting Company should benefit.

[An excellent idea. More of this would stimulate amateur construction, which in the day of the all-electric is liable to wane.—Tech. Ed.]

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Topical Events.

EXPERIMENTERS interested in short-wave working should welcome the opportunity for further reception from Europe, provided by the transmissions from the short-wave station at Vienna. Advice has been cabled from the Austrian station to Dr. N. H. Lang, of Austria, at present in Sydney, to the effect that the station, using the call-sign UOR2, will be transmitting on Thursday and Sundays from 9.30 a.m. to 11.30 a.m., and on Tuesdays and Thursdays from 9.30 p.m. to 11.30 p.m., New Zealand time. The wavelengths used in all transmissions will be on 49.4 metres.

In view of the success obtained at Ste Assise (France) with the short-wave transmissions, the French P.T.T. authorities have decided to carry on similar experiments in broadcast telephony from the Eiffel Tower. The wavelength will vary between 49 and 51 metres.

The following, which appears to refer to the powerful German heard frequently of late, is from a recent issue of "Wireless World":—"From Berlin comes the report that work on the new German 'world' short-wave broadcasting station is nearing completion, and that experimental transmissions are to be made at an early date. Although no definite information has been given out officially regarding the wavelength to be adopted, it is probable that the initial tests may be carried out on either 31.381 metres or 25.105 metres. The transmitting plant has been installed in close proximity to the Zees high-power station."

Mr. W. R. J. Smythe (Greymouth), in writing of the new German station, confirms that it is Königswusterhausen. On Saturday, August 31, the "Messiah" was relayed from Berlin. Mr. Smythe said that reception was perfect on the loudspeaker in Greymouth. This was my experience in Wellington.

Revised schedule of PCJ (on 31.4 metres):—Every Friday: 5.30 a.m. till 7.30 a.m., 9.30 a.m. till 3.30 p.m. Every Saturday: 5.30 a.m. till 7.30 p.m., 11.30 a.m. till 3.30 p.m., 3.30 p.m. till 5.30 p.m., the latter being a special transmission for Australia and New Zealand. The above are all standard New Zealand times, the necessary allowance will need to be made when daylight-saving commences in New Zealand.

Are You Satisfied with Your Reception?

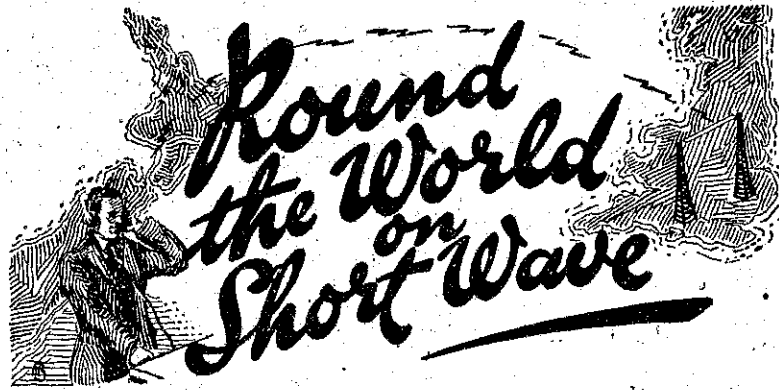
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THIS page is conducted in the interests of shortwave enthusiasts. A weekly log comprising notes of reception and interesting topical events is contributed by Mr. F. W. Sellens, Northland, Wellington, but all listeners are invited to send in paragraphs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

Log for Week.

PCJ was perfect except for slight static, till 7.30 a.m.: strength R9 nearly all through. **2ME** at R9, and **GBX** about the same volume carrier, but voice about R7-8, were working duplex. **5SW** was spoilt by unsteady gushes. **W6XN** was only just audible. The German was a real treat with the "Messiah," relayed from Berlin. **R9** at 6.30 a.m., decreasing to R8 by 8 p.m. **PCJ** was again tuned in at 1 p.m. when volume was R5. This increased to R9 by 3.30 p.m. and remained at that till 5.30 p.m. Static was slight at first, but was much worse later on.

W2XAD was, as usual, well received. Dance music from the roof of St. Regis Hotel, New York City, was broadcast from 2.30 p.m. 3.30 p.m.

KDKA, at R8, was spoilt by a rapid fade.

3ZC, Christchurch, with gramophone records, was well received at R8.

KZRM commenced at 9.30 p.m. with a band item by Sousa, "Hands Across the Sea," followed by the opening announcement. Volume R8. Static very bad.

RFM at R9 was spoilt by static. What proved to be the 8th harmonic of **2BL**, Sydney (about 44 metres) was heard clearly at R7 soon after 11 p.m.

Sunday, September 1.

THE only American station free of static and worth listening to was **W2XAD**. Herb Gordon and his Brunswick recording orchestra were heard from the roof garden of the Hotel Ten Eyck, Albany, at R9.

W6XN was "on the air" up to about 8 p.m., but static was too bad.

Monday, September 2.

AT 6.35 a.m. Achtung, etc., was heard from the German. Several speakers were heard, the first being very excited. Music was not heard. Volume R9.

Sydney and London carried out their usual test during the early evening.

Tuesday, September 3.

5SW was tuned in at 6.5 a.m., when a talk was in progress about "Old London." This was about 95 per cent. readable, in spite of a slight surge and ripple. The musical programme commenced at 6.18 a.m.

2ME at R9 and **GBX** R8 were heard. The musical programme from the German was well received at R9, decreasing to R8 by 7.30 a.m.

At 8 p.m. **GBX** was R7 and gushy, **VK2ME** R9.

RFM, with orchestra music at 10 p.m., was very fine at R9. Static, though there, was not bad enough to spoil reception.

Wednesday, September 4.

ON account of a strong ripple **5SW** was impossible.

GBX was more clear than **2ME** during the morning test. Both were R8.

W6XN were stronger than usual, being R5, with a lady talking at 6.10 a.m. Unsteady gushing spoilt reception. Some trouble was experienced with the German till nearly 8 a.m. Another carrier almost on top of it was the cause. Just before 8 a.m. music came in quite clear at R8. This station was tuned in again at 4.50 p.m. when orchestral music was heard at R9. It came as a surprise to hear the German at this time, which would be 7.40 a.m. in Germany. However, during the first talk, the words "Graf Zeppelin" were heard, so guessed they were "on the air" for the airship's arrival. Music was broadcast till 6.20 p.m. before anything further was heard in reference to the Zeppelin, when "Hullo, Hullo, Graf Zeppelin!" was repeated several times. Again at 6.30 p.m. another talk was heard, when "Graf Zeppelin," "Tokio," "Lakehurst," etc., was recognised.

At 7 p.m. loud cheers were heard, while the announcer was talking. Cheering was heard again at 7.5 p.m., and just after, in English, "The Graf Zeppelin will be flying over the ground in a few minutes now." Something else was said in reference to the time from Lakehurst to there, but did not hear distinctly. The announcer was very excited at 7.15 p.m., when shouts of "Graf Zeppelin" and "Hullo" were heard from the crowd. The roar of the engines was heard just after. Reception by this time was very weak; with background noises. The station was on the air for a little time after this, but could not hear much.

KZRM was heard later with a musical programme at R9.

Thursday, September 5.

5SW was very gushy at R7. **W6XN** was just audible. **GBX** was very clear at R7, easy 100 per cent. readable. From the 31.5 metre German, a clock was heard striking eight at 6.30 a.m. After the "Achtung" etc., music was received at R9. During the evening test between **2ME** and **GBX**, the Sydney man said they were going to have some 24-hour tests soon. **RFM** was R9 with talk.

Friday, September 6.

PCJ at 6 a.m. was R8-9, with a very slight fade and little static. At one time, after calling English-speaking countries, the only names called were New Zealanders, Messrs. Abbot, Gledhill and Sellens. **5SW** was good strength, but reception was impossible on account of ripple and surge. **GBX** was much better than **5SW**, being easily readable.

The German was excellent with talk and orchestral music from 6.30 a.m. at from R9, decreasing to R8.

The German and **PCJ** were equal as regards clarity and modulation, while the former was slightly the strongest all through. They are easy to check, as only a degree or two separates them on the dial.

KZRM at 10 p.m. was R9, with recorded music. Reception, except for slight static, was perfect.

Amateur Activities

A VISITOR to Wellington during last week was Mr. Jas. Mills, of Hastings, owner and operator of short-wave station **2BBE**.

Short-wave listeners are assured of some interesting amateur experiments immediately Mr. Mills installs his new microphone, etc. An electric pick-up will also be used for gramophone records.

The trio **2BE**, Hastings, **2AX** Palmerston North (Mr. Kyle), and **2AW** Wellington (Mr. Clarke) can be heard almost nightly; and in particular, Sunday nights after **2YA** has closed down, working short-wave telephony on 80 metres.

Adding an Amplifier

NEVER join up an audio amplifier to a set unless you make sure that the "B" negative connection inside the amplifier goes to the same audio lead, i.e., either negative or positive, as in the set to which the amplifier will be attached.

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