

THE RADIO RECORD

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(Price, 3d.)

Picture Transmission Will Operate Soon



HE accompanying statement is important, and when picture transmission is an accomplished fact New Zealand will be in line with Australia, America and Europe, where the system is now working satisfactorily.

The first transmission of picturegrams in Australia took place between Sydney and Melbourne on September 9, 1929, when a public service was inaugurated. The evening papers in Sydney received, through the medium of special apparatus installed by the Post and Telegraph Department, a leading article which had appeared in the Melbourne "Argus." In all, 83 pictures and advertisements were transmitted between the two capitals. We reproduce a picture which was transmitted on this day. It will be noticed that in spite of the fact that this is a reproduction from the Melbourne "Argus," that it is yet clear and fairly well defined. The picturegrams transmitted in Australia are not only newspaper illustrations, but advertisements, finger-prints, and documents. Several firms availed themselves of the service and lodged advertisements in Sydney and Melbourne which were ready for printing three hours later. By ordinary postal methods it would have been necessary to lodge these 24 hours earlier than the publication time of the paper. A half-page advertisement appearing in the "Argus," of September 10, appeared little the worse for its rapid journey. The actual sending time for this advertisement was twenty minutes. Other advertisements transmitted by wire appeared in the same issue.

THESE picture transmissions are not a part of radiovision or television systems. In this respect a rather unfortunate impres-

sion was created by a city newspaper which, in amplifying the Postmaster-General's statements, ran into a long article headed "Television Promise." This article outlined the Baird system, and the uninformed reader in glancing it through would receive the impression that the Baird television system was to be employed be-

AN important announcement was made by the Postmaster-General, the Hon. J. B. Donald, who, in the course of a speech, made the following statement:—"I hope soon to have the transmission of photography by telegraph between Auckland and Wellington, and, following that, between Wellington and Christchurch and Dunedin." He went on to say that the system was already operating in Australia, and when it came into New Zealand, all the improvements made in Australia would be incorporated.

"Also, we have heard something of radio telephones," he continued, "and when it is possible for us to have them you may be sure New Zealand will not lag behind."

tween Auckland and Wellington. This is unfortunate. Although no information has yet been given regarding the system to be used in New Zealand, it is evident that the Baird radiovision system will not, for some considerable time, if ever, come into operation. The pictures are transmitted by wire.

They are photo or picturegrams. The system entails transforming an ordinary photograph, column of print, or document into varying intensities of electricity, and these are conveyed, via a telephone line, to the receiving end where, by the operation of a Neon cell, the electric impulses are reconverted to light and shade. Radio does not come into the system at this stage.

Reference to our last week's article will show just how far the art of radiovision has advanced in England. The Baird system is only yet experimental, whereas picture transmission, as employed in Australia, and which will be employed in New Zealand, is definitely past that stage.

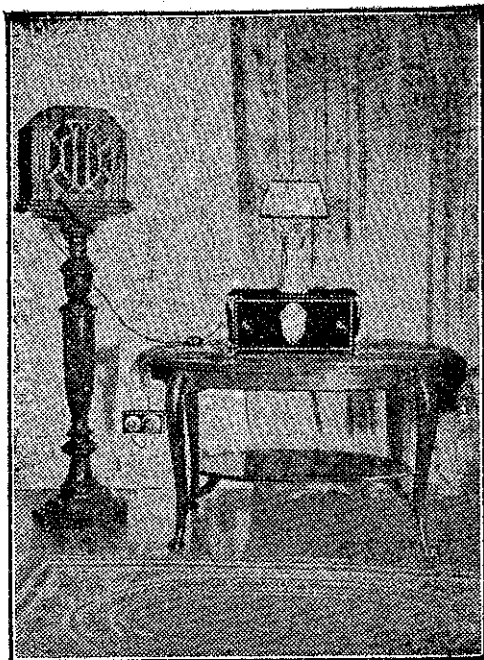
The type of instrument to be used by the Post and Telegraph Department will, in all probability, be more costly and elaborate than those used for the broadcasting and reception of pictures for general purposes. It is thus not strictly similar to the Fultograph system employed regularly in England. It is analogous only.

THE results obtained through the operation of this system will be very far-reaching in their effect as predicted in the "Australasian," of September 14. In its photographic section, two reproductions are made of the finish of the Canterbury Park Stakes, at Sydney. One photograph was sent by telegraph to Melbourne, and there reproduced for illustration purposes. The other was sent by post, and a comparison made between them fails to reveal the better. It will soon be possible to have the latest news and photographs of events happening on the other side of the world reproduced in our daily newspapers.

THE application of this system to the home will be more limited. A broad-

(Continued on page 2.)

Europe



Asia

America

Picture Transmission

Divorce Up-to-Date

(Continued from front page.)

cast concert is of some interest because of its continuity. A picture can be examined, and after a few minutes is finished with. In most cases, the reproduction in the daily papers will be sufficient. It then should be strictly a commercial service, and this of greatest value. Already on the Continent and in America valuable work has been done in the rapid tracking of criminals. Finger prints can be accurately sent, and accurately received, so that rapid steps may be taken to bring to justice any malefactor.

Thus the system now operating in Australia, and promised for New Zealand, will be one of great commercial value, but must not be regarded as a new asset to the home.

MANY original grounds have been discovered for divorce, but one given by a very pretty young lady in a recent New York case is certainly up-to-date. "I can't live with him any longer," she wept. "He stays up all night with his wireless set and I have to stay up all night with baby. He expects his meals at all hours and growls at me if baby cries when he is listening in. He never goes out with me and sometimes he never even answers me when I talk to him. He spends all his money on new radio material and I can't buy the clothes I want to. I'm sick of radio concerts and he expects me to enjoy them and he even expects me to help him construct his sets."

"He's been interested in wireless for two years and before that time he held down his job, but since then he has had no less than 10 positions. Employers say that his mind does not seem to be on his work."

The fact that the action was not defended seems to be evidence that the erring husband preferred his hobby to his wife. Another radio-widow.

Songs of Malvern

Feature from 2YA

Australasia

MALVERN is a picturesque district in Worcestershire, England, famed in the Midlands as a health and pleasure resort, which in summertime is visited by thousands of excursionists weekly for the pleasures of climbing the famous hills.

From the summit of Bredon exceptionally fine and entrancing views are obtainable, and it is contended that landmarks in seven different counties of England and Wales may be seen. The rivers Severn, Wye and Avon present a fine view winding among the valleys.

"Songs of the Malvern Hills" is an Album of Seven Songs by Robert Coningsby Clarke, two of which, "Malvern Hills in Spring" and "My Girl and I," will be presented at 2YA on Monday, September 23.

A Revelation in Production

NOTHING could be more indicative of the tremendous popularity of radio receiving sets nowadays than the following figures supplied by a well-known Australian and New Zealand firm concerning their manufacture.

In the production of their last season's receivers no fewer than 4,156,000 parts were used, involving 10,000,000 operations in their manufacture. Their variable condensers completed during the same period involved 1,860,000 parts and 5,630,000 operations, while eight tons of brass and two tons of aluminium were necessary for their construction. In the making of their transformers the parts numbered 4,069,000 and the operations 5,686,000. Three tons of copper wire, measuring 41,450 miles in length, and 32 tons of iron and transformer sheets were used.

The above figures give some idea of the universal appeal that radio makes to the public, and certainly shows that in a few years' time the household without a radio set will indeed be a rarity.

Broadcast Matchmaking

A REPORT came to hand recently of a very novel piece of broadcasting, and the author of its sources vouches for its truth. With a very powerful set he got into touch with a Japanese station, and he had present at his house a gentleman who had spent many years at missionary work in Japan. The voice, which was very sweet, came through with perfect clarity and the report as translated by the ex-missionary was: "I am a very pretty young girl. My hair is as wavy as the clouds. My complexion as soft as velvet, has the magnificence of a flower. My brown eyes resemble two increasing moons. I have enough wealth to go through life happy with my husband and hand-in-hand. If this appeal is heard by an intelligent and pleasant young man and one with a good figure, I am prepared to give him my hand for life and in years to come to rest with him in a tomb of red marble. 'Blue Iris.'" One might be led to think that New Zealand is far behind the times in radio advertising.

The First Broadcast

THE claim of being the first individual to initiate a public broadcasting service is being advanced by Mynheer H. S. Steringa Idzerda, of The Hague, who states that broadcasting history was begun when he conducted public demonstrations in Utrecht in 1919 at the Third Dutch Trade Fair.

From a room at one end of the town he transmitted a flute solo with an aerial power of 5 watts, being heard not only at the fair, but over 100 miles away. Early in 1920 the concerts became a weekly feature. KDKA, Pittsburgh, which has often claimed pioneer honours, did not begin regular programmes until the autumn of that year.

And Now an All-Electric All-Wave ULTIMATE

Read what one satisfied
ULTIMATE owner says :

Hikurangi, Masterton,
August 26, 1929.

"In reference to the 'ULTIMATE,' I want you to know how very pleased and delighted we are. We never had results anything like it before. The Australian stations come through louder than the New Zealand stations. We can tune into different short-wave stations quite simply and get American stations quite well; also had London this morning announcing quite clearly. So now I am very well satisfied with the 'ULTIMATE.'"

In keeping with the times, Ultimate Engineers have produced an All-Electric Receiver—but at a popular price. Outstanding features are: noiseless operation, no batteries, one tuning control, exceptional tonal reproduction, handsome appearance, electric gramophone pick-up connections, and extreme efficiency. Easily installed, it's just the set YOU require.

Write now for full particulars and the name of your nearest dealer.

New Zealand Distributors:

RADIO LIMITED

COMMERCE BUILDING, ANZAC AVENUE :: AUCKLAND.

In Memory of the Somme

IN memory of the Battle of the Somme, in which New Zealand Divisions played so important a part in France in 1916, a special evening was given by Station 2YA on Thursday week. A very comprehensive programme, featuring songs of war-time memory, was prepared. The band of the First Regiment of the Wellington Battalion, under Lieutenant Shardlow, co-operated and excelled itself in contributing martial music associated with the Great War.

Many messages of congratulation by mail and telephone were received by 2YA and conveyed to Lieutenant Shardlow and the singers of the evening. In connection with the anniversary, a happy gathering was held in the Officers' Club, where loudspeakers were installed to hear 2YA's programme. A special telephone message of congratulation from Colonel Ewart was conveyed during the evening to Lieutenant Shardlow for the fine performance of the band in its martial numbers.

Orchestral Concert in Studio

Special Attraction at 3YA

ON Wednesday evening, October 2, the Christchurch Orchestral Society will give a concert in 3YA Studio. This has been arranged by the 3YA Musical and Dramatic Committee.

An excellent programme has been prepared. The opening number will be the famous "1812 Overture" and for this, in order to help create the necessary realistic background depicting the retreat from Moscow, the services of the Woolston Band have been engaged.

The other instrumental items on the programme will be presented in the same efficient manner. The only vocalist for the evening will be Mr. W. Toomey, who will sing the "Prologue to 'I Pagliacci'."

The orchestra will be under the conductorship of Signor Oddone Savini.

Services Appreciated

Well-Deserved Presentation

WHILE living in Wellington, Mr. Len Barnes, Station Manager at IYA, took an active part in the musical life of the city, not only as a baritone soloist but as a conductor of various societies. To mark their appreciation of the services given by Mr. Barnes, the Wellington Society of Musicians and the Wellington Amateur Theatrical Society recently forwarded to him mementoes of his association with them. The gift from the former was a silver cigar-box, while the Theatrical Society has presented him with a pair of gold sleeve-links and a set of dress studs, also a pearl necklace for Mrs. Barnes.

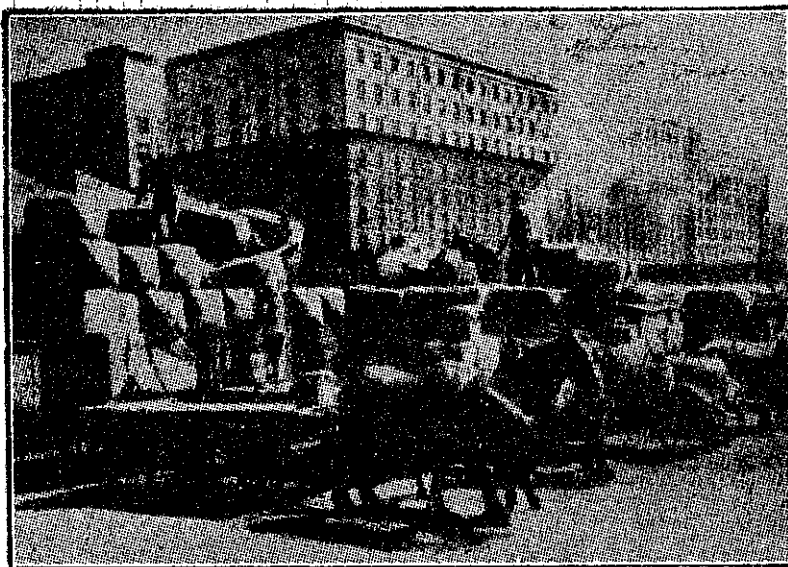
News from Across the Tasman

Impending Broadcast Attractions

SINCE the A.B.C. inaugurated the daily devotional service from 2FC, hundreds of letters have been received congratulating the company on the innovation. This service, which is held daily, between 11.15 a.m. and 11.30 a.m., has proved a great comfort, not only to those in need of good counsel and cheer, but also to the aged and sick who cannot visit any place of worship. The A.B.C. should be proud of this

this innovation will prove of vast material benefit to those who "go down to the sea in ships."

FOUR little girls who have each learned to play several different instruments, were a big attraction on the programme of the entertainment which the radio uncles and aunts gave at Fuller's Theatre on Saturday last. They gave a splendid performance, and



Photograph of a scene in Sydney transmitted by Melbourne and then appearing in the "Argus."

introduction in the week-day programmes, and should endeavour to maintain the high standard of public service already set.

THE A.B.C. Male Quartet, once known as the Radio Male Quartet, are probably the best known and most popular radio performers in Australia. Their large and very varied repertoire and their excellent harmony have endeared them to the Australian listener-in.

RECENTLY, the organiser of the Boys' Aero Club, Sydney, made an announcement over the air that he had made arrangements to take a party of members over the French cruiser Tourville on a visit of inspection. He was able to make only one announcement, to the effect that any members who might like to meet him on the appointed day could join the party, and he was hopeful that at least fifty boys would be there. What was his astonishment, therefore, when he arrived at the meeting place to find that the call had been answered by over five hundred!

AT the suggestion of the Royal Motor Yacht Club, the Australian Broadcasting Company, Limited, is inaugurating a special forecast for the benefit of yachting and fishing enthusiasts. Arrangements have been made to secure each week forecasts and conditions of the weather, and it is expected that

are to be congratulated on their versatility and talent. Among them they can play six widely-different instruments, and, in addition, they can each sing well. At one theatre they repeated their performance no less than four times, and wherever they have appeared their success has been immediate.

AN interesting lecture, and one that should prove very popular with New Zealand listeners, will be given by Mr. T. S. Gurr, on Maori customs and rites, from station 2BL, Sydney, on September 24. The subject is one with which the lecturer is very conversant, as for some years past he has made a close personal study of the

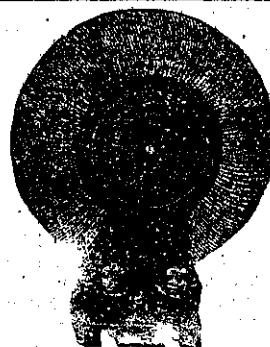
Maori people. The history of the Maori, highly imaginative as he is, is probably one of the most interesting racial records known. His rites and legends, his unusual customs, his folk lore and myth, all these make an absorbing and fascinating study, and every listener-in capable of receiving 2BL should not miss this unique opportunity of learning a little more about the earlier history of the land in which they live.

A NEW departure in broadcasting will be heard from 2FC, Sydney, on September 28, when a play entitled "Give and Take" will be presented to the public. The humorous and shrewdly-drawn character studies in this He-brew play make it easily equal, if not superior, to that well known comedy, "Potash and Perlmutter," and its stage success in Sydney and Melbourne was phenomenal. Should this experiment of broadcasting an entire play prove successful, the A.B.C. Radio Repertory Players will broadcast a new play each week.

JOSEPH POST, a young Australian, who proved his worth by the masterly way in which he handled the music and orchestra of the grand opera "Teora" (produced recently in Australia for the first time), will make his bow before the microphone on September 25, when he conducts the Wireless Singers for the first time. His great aptitude for the difficult branch of music he has chosen to specialise in, makes it certain that his success on the air will not be less than that he achieved on the concert platform.

MR. A. G. ELLIS, who, as a boy, had a voice which earned him the title of the "Boy Nightingale," will give his next performance from 2FC on September 24. Mr. Ellis has travelled widely, and has had many interesting experiences, not the least interesting of which was his organisation of concerts in the trenches, which, he says, amused the enemy quite as much as themselves.

THE moral of the whimsicality which the H. W. Varna Company will broadcast from 2FC on September 25, is "Go In and Win." A cautious city business man takes what he considers insane advice in a last faint hope of making a little money. This apparently foolish action brings astonishing results which furnish the plot of "Jiggery Pokery." To elaborate on the plot would destroy the listeners' interest in a very amusing and original play. It is sufficient that there is heaps of entertainment in this novel production, and people who lament their inability to make money easily, should listen-in without fail.



DUBILIER
RADIO PRODUCTS

SHORT WAVE

22.5 to 45 M. Coil and Base 17/-
44 to 90 M. Coil and Base 17/-
H.F. Choke 5/6
Special Vernier Condenser 15/-
Ask for NEW PRICE LIST.

A. E. STRANGE
404 Worcester St., CHRISTCHURCH

"Ham" Notes

An Enthusiastic Correspondent

Mr. R. Leslie Jones (Lyal Bay) writes: Those who have not acquired a short-wave receiver had better get busy; they are "missing the bus" daily. If about a dozen different countries is not sufficient "bill of fare" to choose from they will be mighty hard to please.

Sunday nights there are always a few "Hams" working 'phone; and another "Ham" will shortly be putting on good music through an electric "pick-up." About half-a-dozen "Hams" on 'phone are working within easy distance of Wellington; especially Sunday nights after 2YA closes.

3BE (Christchurch) was heard at fair volume over a recent week-end.

2AX (Palmerston North) was very fine; he is using an electric "pick-up" for records now; look out for 2BE (Hastings) with his new "mike" and "pick-up," after 2YA closes Sunday night. 2BE's brother knows something about the xylophone, and is to play from 2BE shortly.

Excellent results are being achieved by 2BE (Hastings) and 2AX, Palmerston North; the former having received reports on 'phone transmission from Western Australia—5000 miles distant from Hastings; and 2AX has also received reports on reception from the same territory. In each case the writers quote specific items, times of reception, volume, and clarity, etc., and eulogise the operators of these two stations.

2AX was putting in 30 watts and 2BE has been delivering even more than that; therefore with such a low power it is a creditable performance to receive acknowledgements that reception in Western Australia was good.

It will be remembered that it was 2AW (Mr. Roy Clarke) Wellington who connected with three African amateur transmitters some little while back on morse, all at one sitting.

2AX has intimated that in response to numerous requests that amateur station will, from 9.30 p.m. until 10.50 p.m. each Wednesday night (after 2ZF Palmerston North has closed down), broadcast music on 80 metres; reports will be welcomed and answered by 2AK (J. V. Kyle, 50 Waldegrave Street, Palmerston North).

A baseball match was well described from Manila (short-wave), Saturday, September 7, strength being excellent, permitting loudspeaker reception.

Sunday, September 8, WGY (New York), on short-wave, was probably the best for many weeks, every word being heard easily on loudspeaker; each message to the Byrd party at "Little America" proving of interest to short-wave listeners.

Notwithstanding good reception during that Sunday afternoon from New York, when 2ME (Sydney) tried to raise CJA (Canada) same evening, it was impossible for 2ME operators to hear speech from CJA, and the latter were requested to change over to telegraphy. Even 2ME was distorted to Wellington listeners, a thing which seldom happens to 2ME. This proves again the vagaries of the boss "Atmospherics."

If "Atmospherics" would take a long holiday, we should all be very pleased. He is a prowler of the worst kind, and keeps "butting in" when not wanted; a second cousin to "Induction" and first full brother to "Static," only the breeding is bad in each case.

"Atmospherics"—or one of his relations—upset calculations Saturday night (really Sunday morning), so far as 5SW (London) went. Still the volume was good, and quite a fair amount of speech audible, but not sufficiently clear to guarantee any figures for repetition, excepting at spasmodic intervals. Christchurch listeners on short-wave apparently had better luck than Wellington listeners. The roar of the seaplanes was easily heard in Wellington. 2YA did well, nevertheless, in keeping going, the music being entertaining. One must offer thanks to the stations for that night's work, especially the announcers and operators.

The contrast between speech from London and Australia is marked. There is a distinction in the delivery, enunciation, speed, and phraseology; the conservative English compared with the free style of Australian speech is as different as two poles apart.

Wednesday, September 11, GBX (London) was splendid, good volume and clear when testing with 2ME (Sydney). The latter was also excellent, although a bad storm was surrounding that city and coast.

WHEN building or buying a set it is a good plan to keep all the literature concerning it (constructional article, leaflets, etc.) inside the receiver, so that in the event of any fault developing, or any modification being required, you have all the information available at a moment's notice.

Radio and the "Talkies"

A Great Power for Good or Evil

FEW events have aroused such controversy as the advent of the "talkies." It burst on us like a bomb-shell and no later than six weeks after its arrival, equipment had been installed in our five leading theatres. As a commercial venture "talkies" may leave little to be desired, but from another viewpoint this innovation is going to have a bad effect.

Several of these pictures have been notorious for that nasal twang which is said to identify the Yankee in any part of the world. To the adult this twang may appear rather novel and humorous, but it has been noticed that children in the street and playgrounds at school have been imitating the type of speech prominent in the lower class "talkie." Thus the recent statement which met with such derision by a correspondent to the papers, may not be the exaggeration it appears—"in twenty years' time New Zealand will be speaking the tongue of America."

Radio has had many burdens cast on it of late and the "talkies" provide another liability. By giving New Zealand the best over the air, radio can do much to counteract the effect which second-rate talking pictures will have on our language.

Many worshipped their favourite movie stars, placing them on a pedestal among their gods only to find that their idols had feet of clay and, closing their eyes, they could not associate the voice with the figure. With the advent of the "talkies," hero worship of stars may become but a thing of the past. Much discretion can be exercised in the choice of these films for the Dominion. New Zealanders have ever been proud of their purity of their diction and the effect the "talkies" will have can only make itself evidenced with time.

Not all "talkies" have this failing; there are some that have a totally different effect, but for every gem, we have ten of the undesirables. From another viewpoint, the "talkies" have wrought havoc. Many theatres have dismissed their orchestras, and this must prove a factor in discouraging many from adopting music as a profession. Again radio can absorb many of these musicians and by judicious broadcasting still prove a stimulant to the best in music.

In many ways the "talkies" have much in common with radio. In future "talkie" artists will have to pay as much attention to their enunciation as do radio announcers and actors, and the physical beauty of the star tends more and more to become a secondary consideration, while voice-personality is coming to the fore. Where once the beauty and sex appeal of the star interested the audience, now her histrionic genius and the magic of her voice evokes spontaneous applause.

There is not only the bad aspect of the "talkies" that must be considered. There are vast possibilities for good in this new invention. It may mean a revolution in grand opera. Soon we may see and hear "Faust," "Carmen," "Il Trovatore" and others, played by

the world's greatest artists. Lands that have been starved for the classics may see and hear Shakespeare portrayed by the foremost actors of the day. Even already we have heard great actors on the screen, but at present the "talkie" seems to cater for the lower grade of intelligence.

As a factor for maintaining the peace of nations, speaking pictures can play a mighty part. Scenes from other lands, speeches from the powers of other countries can forge strong bonds of fellowship between nations. Pictures of foreign settlements in New Zealand of interest to other lands and speeches by their leading inhabitants would play a great part in making war but a horror of the past.

In its hands, the "talkie" has the power to uplift and to sublimate, but hitherto it has done nothing but pander to the taste of the majority. There may come a day when radio and the "talkies" will work hand in hand. Perhaps one day we will hear the incidental music to a picture, broadcast from the studio; perhaps with the perfection of television, we will sit at home and enjoy the world's greatest plays.

In the education of the people the "talkie" has even greater possibilities than radio. At the present time education by this means is almost impossible on account of the commercial interest, which is really the only interest considered. No one would pay to go and be educated by this means with a picture theatre near at hand with much more fascinating wares. But the day may come when we will see the "talkie" in our schools and universities.

One can go further in flights of imagination, but the powers and possibilities for both good and evil in this invention are infinite. It can either prove the death-blow or the great revival of the stage-play, and the future of our entertainment, in more ways than one, lies in the laps of these picture magnates.

A New Development

THE American Telegraph and Telephone Company, which conducts the U.S.A. end of the trans-Atlantic telephony service, is to begin tests between experimental stations in New Jersey and the s.s. Leviathan with the object of establishing a telephone service between any telephone in the U.S.A. and ships at sea. If the tests are successful the service will be opened first with the Leviathan in the autumn.

Exide

BATTERIES

MEAN DEPENDABILITY.
Installed at 2YA Wellington.

All sizes. From 9/- each

EXIDE SERVICE STATION

79 Kent Terrace, WELLINGTON

Helping the Estate

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

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

ADVISORY TRUSTEES

Further information relating to advisory trustees is contained in a folder just issued by the Public Trust Office.

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

Auckland Notes

(By "Listener.")

AUCKLAND can almost claim to be a "seven day a week" station these times. It is hard to remember when last we had a silent night—not that we are wanting one, for the "extras" provided are always novel and interesting. Boxing and wrestling descriptions have figured prominently among them, and now the literary side is to be catered for, opportunity being taken of the presence in the city of the Wellington University debating team. Listeners, while enjoying these extra nights, are apt to forget what sacrifices they mean to the station staff, and it is only just that there should be public mention of the fact that we are grateful for both studio and transmitting officials for giving up their time in a good cause.

THE last of the season's Rugby games will be described from Eden Park this week, and hospital patients, invalids, and thousands of others who are unable to follow football visually will regret that for some months Mr. W. J. Meredith's racy accounts will cease. Football is described through 1YA with an accuracy and enthusiasm that excels anything heard from any other station in New Zealand or Australia, for "W.J.M." knows the game and the players as few do, and with this knowledge he combines splendid descriptive powers.

IN the interests of licensees 1YA has at different times faced almost insuperable difficulties in supplying race descriptions and results from points outside the local courses. In connection with the Avondale meeting on Saturday and Monday the procedure that has been followed since the senseless ban was imposed will not be continued. The reason is that at Avondale it is impossible, outside the ground, to obtain a vantage point from which a suitable view can be obtained and at the same time a relay conducted. Probably, when so many hundreds of country listeners miss the news to which they so look forward they too will raise their voices in protest against the continuation of the existing state of affairs.

ONE local listener has been expounding his views on the news session, a feature of broadcasting that to him has the greatest appeal. He commends the nightly budget broadcast, but urges that, before closing down, the New Zealand stations might supply a brief

"late news" session, summarising what has been announced earlier, and adding particulars of any important events that have happened in the city that night. He declares that often there are evening public meetings at which important decisions are made, and that officials at these meetings would be quite willing to supply particulars of resolutions of public importance, telephoning them to the stations so that they could be put on the air that night. There may be something in this suggestion.

THOUGH the Auckland radio exhibition is still a good four weeks off, matters in connection with it have now taken definite shape and everything is in train for a really successful show. Twenty commodious stalls have been allotted to the radio trade, and each will contain a comprehensive display. Special space has been allocated for amateur interests, where local transmitters intend to make a brave display. A radio club at the Leys Institute has just completed a fine 50-watt transmitter, and this, with other products of youthful enthusiasm, will be on exhibition. The committee in charge of the show is now arranging for a tearoom to be included, so that patrons will have refreshment other than through the eye and the ear.

IT is a pity that these notes have to be written before the relay from Waitomo Caves eventuates. This "stunt" has aroused more interest than any which has previously been heralded by 1YA. Programmes on the whole, however, have remained of such a consistent standard that it is difficult to say anything else than "There are no complaints as of yore."

A Sky Pilot

A Parish of Millions

FIVE years ago Dr. H. Cadman left England and settled in America. To-day he has the largest parish in the world, and is one of the most famous preachers in the world. He realised that in the introduction of wireless there were wonderful possibilities for spreading the gospel, and thus he preaches to an audience of millions.

Very often Dr. Cadman receives letters from people to whom his sermons have been of value, and his wonderful popularity and success is due more to his warm sincerity than to anything else. In answer to persistent request, Dr. Cadman at last consented to appear in a "talkie," and in this "talkie" he remarks:

"I am convinced that here is a means of preaching the gospel undreamed of. Here is a missionary who can bring about a revolution in the religion of the world."

In conclusion he remarked in a humorous vein, "I appeared only because I was asked to do so, so very often. Hitherto my wife has said that my face not being on view was a decided advantage—but you brought it on yourself."

To Increase Production

Points from 3YA Lectures

SOME interesting points of value to the man on the land were touched upon in the course of the special lectures given from 3YA in the past week.

A particularly interesting summary of features in the "Journal of Agriculture" was given by Dr. C. Chilton on Friday, September 20. It was explained by Dr. Chilton that many of these articles were too technical and too full of figures for successful broadcasting, but his purpose was to summarise interesting features so that those affected might follow up the points of interest made.

The effects of rabbits in denuding the Mackenzie Country grass lands in large part of the natural coverage was summarised from an article by Mr. R. McGillivray, Fields Superintendent, Christchurch. The rabbits had first of all detrimentally affected the vegetation of the district, and this, together with indiscriminate burning and over-stocking, resulted in marked nakedness of the soil. This in turn limited the water-holding capacity of the lands, with the result that the sparse rainfall was not retained, but ran off rapidly. Remedial measures in controlling rabbits and encouraging the growth of pastures were effecting decided improvement and increasing the carrying capacity of the district; so much so, that the number of sheep in the Mackenzie Country had grown from 455,888 in 1922 to 548,781 in 1928. The article gave details of the remedies adopted, and in particular, urged the provision of shelter belts.

THE importance of mineral content in cow pasture land was the theme of a special article outlining Mr. B. C. Aston's researches on the phosphate deficiencies of the Wairarapa. The outstanding feature of this article was to stress the fact that the poorer pastures in this district were about the lowest in phosphoric content that had been encountered. Mr. Aston warned the local farming public and agricultural officials that this deficiency was serious, and should be remedied by adequate top-dressing. On the hills near Masterton there was only 0.27 per cent. of phosphoric acid in the non-phosphated pasture, and sleepy sickness occurred in ewes. At Hukenui, where there was only 0.2 per cent. of phosphoric acid in the soil, Waihi disease occurred in cows. Even at Hamua, where the pasture showed the highest phosphoric acid content, it was still too low for a normal cow pasture. The farms in this locality, except those on distinctly recent alluvial soil, were much affected with temporary sterility in cows, and the use of superphosphate was earnestly recommended.

Other points touched upon by Dr. Chilton were the experiments in control of dry rot in swedes, the chief point made here being that some farmers deliberately chose to secure a small yield by sowing thickly after midsummer, than risk the almost certain loss of a better crop obtainable by sowing earlier.

ORCHARDISTS were informed that two two years' practical experience at Te Kauwhata justified the conclusion that a stationary spraying plant on undulating and heavy land is 100 per cent. more effective than a portable one.

ON Thursday evening, September 19, orchardists were given an address by Mr. J. D. Carolin, of the Orchard Division. Owners of even small orchards found much of interest in this talk. Methods were outlined by which people growing fruit for domestic purposes only could effectively control the codlin moth. Details were also given of the treatment for controlling the pear slug or leech by spraying with arsenic of lead, from about the middle of November at intervals of from 17 days to a month. Brown rot, a series of fungus attacking all stone fruit,

was best controlled by spraying in summer months with lime sulphur at the rate of 1 gallon to 125 gallons of water, at petal fall, and again when the fruit commences to swell.

Summarised, the best treatment for the different diseases was: For black spot, blister disease, powdery mildew, bladder or pocket plum, brown rot, die back, leaf curl, leaf rust, peach scab, and shot hole: control by spraying in winter with Bordeaux mixture, 8-6-40, and with either lime-sulphur 1-125, or atomic or atomised sulphur, 10-100 as summer sprays. For chewing insects, such as codlin moth, leaf roller, leaf roller caterpillar, pear slug, rasp bud, weevil, and tomato caterpillar, spray with arsenic of lead, 2lb. to 100 gallons of water.

In concluding, Mr. Carolin said: "I would like to point out that in spraying, time and material are often wasted without obtaining the desired results. This is mainly due to either direct carelessness or want of judgment on the part of the person who is carrying out the work. It is necessary not only to use right material, but it is equally important that a thorough application should be made at the right time, also to repeat certain sprays throughout the season, otherwise those applications made in the early part of the season may have been wasted."

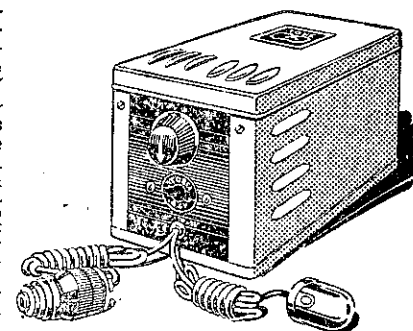
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WELLINGTON, FRIDAY, SEPTEMBER 27, 1929.

EDITORIAL NOTES.

A CERTAIN amount of interested attention has been directed to the announcement of the Postmaster-General that the New Zealand Post and Telegraph Department will in due course follow the lead of their Australian confreres and establish in the comparatively near future apparatus capable of transmitting pictures by wire. A first successful demonstration of this process in Australia was given recently, and met with an enthusiastic reception on the part of the newspapers and business houses who utilised the service. The results recorded were markedly successful. Photographs of racing events were transmitted both over the wire from Sydney to Melbourne, and by mail, and newspaper reproductions made from both photographs. The result from the newspaper point of view was that it was almost impossible to distinguish one from the other. This constitutes a very high tribute to the efficiency of the system available of transmitting pictures by wire.

THIS method is quite distinct from the transmission of pictures by radio, although, of course, the technical skill evolved in the one process is of value in assisting the other process. In the non-technical Press of New Zealand some confusion has been created by unfamiliarity with exact details of the proposed installation on the part of the Post and Telegraph Department, and the impression has been given that it was to be the Baird Television system that would be installed. This is quite inaccurate. The experiments now being conducted by the B.B.C., in conjunction with the Baird Television people, are likely to materially assist the inception of television, but in the meantime transmission of pictures by wire is an actual accomplishment, and totally distinct from the proposed transmission of events by radio.

WHEN the opportunity was presented Parliament last week of discussing broadcasting no great enthusiasm was displayed in the subject. This may be taken as a recognition of the fact that the matter is not at the moment a live one. As the Postmaster-General pointed out, the question of the future policy of the Department does not arise for some two years, and he is too cautious a business man to commit himself at this stage as to what his policy will be then. Of

those who did speak, two of the three speakers were quite appreciative of the present programmes. Mr. J. A. Nash said he believed the programmes ruling at present were quite good (although he suggested a Board of Supervision), and expressed the hope that the Minister would not consider Government control of broadcasting, as it was better under private control. Even Mr. Howard, Labour member for Christchurch South, adopted a kindly attitude towards the service, admitting that there had been a decided improvement during the last two years, although, of course, perfection had not yet been reached. The Rev. Clyde Carr's suggestion for the brightening up of the programmes was to incorporate debates and suitable plays. There may be those who would consider the incorporation of debates "a brightening feature" in connection with programmes, but on the other hand there may be some who would not! Variety in programmes is certainly desirable, but, as experienced listeners have learned, there is a limit to the stunts that can be successfully employed in connection with programmes. A high average of general acceptability seems to be the best general policy.

OUR thanks are due to a correspondent, "Facts" for pointing out a slip on our part in attributing, in our editorial of a fortnight back, to "Henry" the view that the Government should immediately take over the broadcasting service. In our news article dealing with this matter we correctly stated that his suggestion was that the Government should now begin planning to take over the service on expiry of the present contract. We regret the slip. To show, however, that "to err is human" we would point out to our correspondent that he himself is wrong in affirming that we said "Henry" said the Government should not bother with charging licenses at all! That was our own comment upon his view that the Government's resources were vast. We agreed that they were vast, and added that a free service was "feasible"—but we don't agree it would be economic.

The New 4YA

Official Opening

Fixed for October 16

On Wednesday, October 16, Station 4YA, Dunedin, will move to new premises. From that date the studio and transmitting plant will be located on the top floor of the "Evening Star" building. Here, the most modern transmitting equipment and studios and offices, whose appointments are up to date in every respect, will be found. The new station will be one of which Dunedin will be proud. It will be the most modern of the New Zealand chain, and will have the distinction of being the only station where transmitting plant and studios are situated on the one floor.

The official opening will be a noteworthy occasion in Dunedin. The Hon. J. B. Donald, Postmaster-General, will perform the opening ceremony. If unable to visit Dunedin for the occasion, he will speak on relay from Wellington. A programme worthy of the occasion is being arranged.

Talks to Farmers

FOLLOWING on the opening of the new station for 4YA, the work of forming a 4YA Primary Productions Committee, on the same lines as that at 3YA, will be put in hand at once. A conference of representatives of all organisations interested in farming will be called and will be addressed by the organiser, Dr. Charles Chilton, of Christchurch.

Anglican Service

Broadcast by Canon
Percival James

FOR the first time on Sunday evening last the service conducted in the Anglican Pro-Cathedral was broadcast by 2YA. The preacher for the occasion was Canon Percival James, who was well and favourably known to listeners of 1YA on the occasion of his frequent broadcasts from that station. It is certain that the addition of the Pro-Cathedral to the churches relayed from 2YA will be heartily welcomed.

Randwick Races

Broadcast for New Zealand

MR. A. R. HARRIS, General Manager of the Broadcasting Company, advises that he is in communication with the Amalgamated Wireless of Australasia, with the view to arranging for a short-wave transmission of a description of some of the most important races which are to be decided at Randwick on October 5 and 7. The events under consideration are the Classic Derby, Epsom and Metropolitan, and it is probable that one or more of these events will be rebroadcast throughout New Zealand. In the first race two New Zealand horses will be running, and in the remaining two races at least nine are New Zealand horses.

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Rugby Broadcasts

Season's Events Reviewed

Effect of Publicity

RUGBY football has now practically concluded for the year 1929, and the sports announcers, as far as this game is concerned, have hung up their microphones. From a broadcasting point of view the season has been a very successful one. All the important matches played in the Dominion have been described in detail, to the great pleasure of listeners who have been unable to witness the games.

From the point of view of the sport, greater interest than ever before has been aroused in New Zealand's national game. Broadcasting is the best publicity that can be given to anything. Never before has so much interest been taken in Rugby. Many people who have hitherto taken not the slightest interest in the sport now know, by name at any rate, a great many players. It is all for the good of the game.

WITH characteristic enterprise, the Broadcasting Company arranged, when the All Blacks visited Australia, for a description of the Sydney matches to be transmitted on short wave and rebroadcast by the New Zealand stations. This was accomplished with great success. These rebroadcasts aroused enormous interest throughout the Dominion.

The better a broadcast is, the better it is for the sport. No follower of a sport would stay at home just to listen to a description of a game or a race. He would be disappointed with a poor description, and if he heard a thrilling account he would feel that he had missed an exciting event. He would look rather shamefaced when he had to confess to his mates next day that he had stopped at home and listened-in, in order to save a shilling. There is no broadcast that can quite come up to seeing or hearing the real thing, and everyone who listens to a thrilling account cannot fail to think that the real thing must have been much more exciting. So, the more brilliant a description is, the better it is for the sport, because it entices people who are not very interested and incites them to attend the sport next time.

Next Saturday afternoon a description of the North v. South Island match, played in Wellington, will be broadcast by all New Zealand stations.

North v. South Island

THE annual Rugby match which is to be played on Saturday afternoon, September 28, on Athletic Park, Wellington, between the North and South Islands, will be described and broadcast by 2YA, 1YA and 3YA will rebroadcast 2YA and 4YA will broadcast on relay from 3YA.

Instrumental Octet for 3YA

Interesting Organisation now Completed

MR. A. R. HARRIS, general manager of the Broadcasting Company, announces that an instrumental octet, organised by the well-known Christchurch conductor, Mr. Harold Beck, has been engaged and will shortly appear on 3YA programmes. Some of the best professional players, who have now been released from their orchestral engagements in the local theatres owing to the installation of the "talkies," will compose the octet, which will be equipped with a mustel organ, celeste and harp.

The personnel of this new string octet will be:—

1st Violins	Miss I. Morris and Miss F. Millar
2nd Violins	Mrs. Bills and Mr. H. Glaysher (ad lib).
Viola	Mr. J. Mercer
'Cello	Mr. R. Bond
Bass and Euphonium, or E Flat Bass	Mr. W. J. Barsby
Harp and Celeste	Mr. H. Glaysher
Solo 'Cellist and Conductor	Mr. Harold Beck

It is evident from the above statement that the Broadcasting Company is losing no opportunity to engage all available talent for the purpose of developing its service, and a combination such as has been organised in Christchurch, equipped with the instruments mentioned, should provide some novel and attractive programmes for 3YA.

Broadcasting

"Health Week"

Discussion in Parliament Special Broadcast from 3YA

AS we forecasted, broadcasting was before Parliament very briefly last week, when the Rev. Clyde Carr, ex-announcer of Station 3YA and now Labour member for Timaru, asked the Postmaster-General whether his attention had been drawn to an article in the "Evening Star," Dunedin, of August 24, advocating Government control of Dominion radio broadcasting; and whether it was the intention of the Government to constitute this public utility a Government monopoly when the term of the present contract with the Radio Broadcasting Co. of New Zealand, Ltd., was completed.

The formal reply of the Postmaster-General, the Hon. J. B. Donald, was: "I have seen the newspaper article referred to. I am not in a position at present to indicate what the policy in reference to broadcasting will be in approximately two years' time. Assurance can be given that the interests of listeners will be properly safeguarded."

In brief discussion on this subject three members spoke, according to newspaper reports.

The Rev. Clyde Carr hoped the Minister would endeavour to obtain the views of listeners in regard to the arrangement which the Government had with the Radio Broadcasting Co. Some of the artists employed by the company were inclined to become a little wearisome, and the company seemed to be anxious to pay as little as possible for the services of the artists. It ought to be possible for the company to encourage the very best talent, and more variety ought to be offered to the listening public. He appealed to the Minister to use his influence with the company in an endeavour to brighten up the programmes with debates and suitable plays, instead of the same old songs and elocutionary items. He looked forward to the time when the Government would itself take over broadcasting.

Mr. J. A. Nash (Reform, Palmerston) said the business of the Radio

THE annual "Health Week" which is conducted in Christchurch at this time of the year will on this occasion take an important place on 3YA programmes. A number of instructive and valuable addresses will be given by leading authorities on the various aspects of health.

Boxing

Morgan v. Hughes

A PROFESSIONAL boxing contest will be held in the Drill Hall, Dunedin, on Saturday evening next, September 28. The contestants will be Ted Morgan, Olympic welter-weight champion, recently turned professional, and Steve Hughes, who won the Otago welter-weight championship a year or two ago. The fight will commence between 8.30 and 8.40 and a description will be broadcast by 4YA.

Broadcasting Co. was a very safe one, in view of the large number of licenses taken out each year. He hoped the Government would not take over the control of broadcasting, as it was better under private control, but he thought the Minister should consider setting up a board to deal with the programmes. He believed the programmes they were receiving at present were quite good. Mr. Nash thought the Minister should consider reducing the fees of those who did not have big sets; a 30s. license fee for crystal sets was out of the question altogether.

Mr. E. J. Howard (Labour, Christchurch South) said there had been a decided improvement in the service of the company, although they had not yet reached a state of perfection.

Hawera Concert

Fine Programme for Relay on Monday

A CONCERT organised by the committee which has installed radio receiving equipment in the Hawera Hospital will be broadcast on relay on Monday, September 30. The purpose of the concert is to raise further funds for the permanent installation of a microphone in the Opera House, and to connect it with the hospital so that the many local concerts, plays, etc., may be enjoyed by the patients.

The receiving equipment in the hospital is working excellently, and the radio programmes are always thoroughly enjoyed by the patients. The official opening takes place on the 24th.

An excellent programme, contributed by the best talent in the district, has been arranged as follows:—

Orchestral, "Martial Moments" (Winter), Hawera Amateur Orchestral Society, Herbert Webb, conductor.

Bass, Mr. McDonald, "Blow, Blow, Thou Winter Wind."

Violin, Miss Betty Sturrock, A.R.C.M., L.A.B., "Londonderry Air" (arr. O'Connor Morris).

Haka, Hawera Savage Club haka team.

Mezzo-soprano, Mrs. J. A. Rankine, "Softly Awakes My Heart" ("Samson and Delilah"), (Saint-Saens).

Tenor, Mr. Baird, "Annie Laurie."

Male Quartet, Melody Four (Messrs. McDonald, Bellringer, Okey, Hooker), "Gone are the Days" (Hall).

Recital, Miss Instone (selected).

Contralto, Miss Mary Barnes, "Oh, My Heart is Weary" (Goring Thomas).

Baritone, Mr. Harold Ackroyd, "Even Bravest Heart" ("Faust") (Gounod).

Ladies' Choir, Solo and Chorus, "O Sing to God" (Gounod); soprano soloist, Miss Constance Reilly; contralto soloists, Mrs. Sunderland and Miss Olive Grindrod; chorus of 25 ladies' voices, under the baton of Miss Daisy Reilly, L.A.B.

Speech, Mr. Harold Dickie, M.P., Pa-tea.

Orchestra, Overture, "Jolly Robbers" (Suppe), Hawera Amateur Orchestral Society, Herbert Webb conductor.

Baritone, Mr. Bellringer, "Serenade" (Toselli).

Contralto, Miss Mary Barnes, "Stride-la-yampa" ("Il Trovatore").

Instrumental Quartet, Mr. and Mrs. A. Bonetti, Miss Doris Hawkins, Mr. Norman Lester, "Petit Duo Symphonique" (Tours).

Tenor, Mr. Baird, "Farewell in the Desert."

Soprano, Miss Constance Reilly, "La Pastorella Delle Alpi" (Tyrolese) (Rossini).

Violin, Miss Betty Sturrock, A.R.C.M., L.A.B., "Danse Espagnole" (Grandos) (arr. Kreisler).

Baritone, Mr. H. Ackroyd, "Largo Al Factotum" ("Il Barbiere") (Rossini).

Recital, Miss Instone (selected).

Mezzo-soprano, Mrs. J. A. Rankine, "The Flower Song" ("Faust") (Gounod).

Male Quartet, The Melody Four, (a) "Request" (Brenay), (b) "Come, be My H-m-n" (Watson).

Official accompanist, Mrs. Doris McQuinn.

Wellington Symphony Orchestra

THE next concert of Mr. Leon de Mauny's Wellington Symphony Orchestra is fixed for October 31 next and will be broadcast by 2YA.

The first half of the programme will be devoted to the works of Schubert, including the Rosamunde Overture and the Unfinished Symphony, and Mr. Harrison Cook will sing "The Erl King."

The second half of the concert will consist of the Tannhauser Overture (Wagner), Schumann's Pianoforte Concerto (Madame de Mauny at the piano), the whole of the Ballet Music from "Faust," and the concluding item will be the favourite "Pomp and Circumstance."

Masterton Station

MR. W. D. ANSELL, of 2ZD (Masterton), writes: "It may interest readers of 'The Record' to hear of the very successful broadcast of the Masterton Municipal Band's (under the conductorship of Mr. R. J. Young) concert by this station. The following was the programme presented this evening: March, "Colonel Bogey" (Kenneth J. Alford); fantasia, "Queen of the Ballet" (J. Gilburne); reverie, "Bells and Sunset" (Gordon McKenzie); pot-pourrie selection, "Musical Snapshots" (Sydney Trenchard); fox-trot, "Hearts and Hands" (Arthur O'Leary); march, "New Colonial" (R. B. Hall). From reports received the transmission was of a high order and much appreciated by listeners. It is hoped to make these band concerts even more satisfactory and to broadcast every fortnight."

Further Relay from Timaru

Concert to be Relayed by 3YA on Tuesday

THE Timaru Orpheus Society has arranged an excellent programme for its concert on Tuesday, October 1, when a relay is to be carried out by 3YA. The full programme appears in another column.

This society occupies an honoured place in the musical life of Timaru. Though founded in 1914 by Mr. A. W. V. Vine, the present hon. conductor, the society may be said to be the lineal descendant of the old Liedertafel, which was founded by the late Mr. Ziesler in 1896, whose successors with the baton were the late Mr. Sidney Wolf, the late Mr. Ellis Wood and the late Mr. J. Campbell Gillies. The trustees of the Orpheus Society, Messrs. J. P. Newman and F. J. Rolleston, together with two members of the choir, Messrs. J. W. Holdgate and J. McKennal, were members of the choir of the old Liedertafel.

THE season runs during the winter months, from March to October in each year, during which period it is customary to give two concerts in Timaru. During the war years concerts were given in Waimate, Temuka and Pareora.

The society is steadily growing in popularity with the musical public of Timaru, and now has 21 patrons and 253 subscribers. The choir consists of 27 active members, being six first tenors, seven second tenors, seven first basses and seven second basses.

A gold lyre, the highest honour which a male voice society can bestow upon its members, has been awarded to several distinguished members, and a gold bar, for ten years' continuous membership, and a further gold bar, for each complete five years' continuous membership thereafter, have also been awarded to many members.

Two More Whangarei Concerts

LISTENERS in to 1YA will be interested to learn that relays of concerts to be given in Whangarei will take place on October 13 and October 27.

The first concert is to be given by the Whangarei Band, the latter by the Auckland Salvation Army Congress Band, which will at that date be visiting the Winterless North.

Wireless Telephony

Between Australia and England

THE notable feat that was accomplished recently by Mr. E. T. Fisk, managing director of Amalgamated Wireless (Australasia), Ltd., in carrying out wireless telephone conversations between Australia and England, opens up a new era in Australia's overseas communications.

The possibility of speaking to England, and the means to attain it, have been uppermost in Mr. Fisk's mind for some years, more especially since the opening of the beam wireless service in May, 1927. A great deal of research and experimental work has been carried out by Mr. Fisk, in association with the engineers of Amalgamated Wireless.

In order to advance the work, special transmitting equipment was some two years ago designed and manufactured by the company, and installed at Pennant Hills. This is the 20 k.w. short-wave telephony, telegraphy, and overseas broadcasting transmitter—the largest of its kind in the Southern Hemisphere, and one of the most modern transmitters in the world.

Intensive experimenting resulted in telephonic communication being established with Java, Suva (Fiji), Amsterdam, Berlin, and U.S.A. A successful demonstration of duplex, or two-way telephony, with the latter country was given in Sydney in November last, before a gathering of Sydney newspaper editors.

It is especially fitting that the first duplex telephony between Australia and the Homeland should be effected by Mr. Fisk, to whom credit is due for the advocacy and establishment of the direct wireless service to England, and who has been instrumental in pioneering every branch of Australian wireless in Australia and the Pacific.

While the commercial possibilities of radio telephone service between Australia and England are not far distant, at the same time much research and experimental work has yet to be carried out and the most suitable frequency has to be determined. It has been found that certain frequencies prove to give better transmission in hours of daylight than in darkness, and vice versa. Factors of power and other problems have yet to be solved before a telephony service will be available that will give efficient commercial service under all conditions and at all times.

The possibilities of such a service cannot be estimated. The establishment of the service would mean that one could speak by telephone from one's home in a suburb of Sydney—in fact, in any part of the State—to a telephone subscriber in any part of England.

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"Gipsy Love"

Opera to be Relayed from Hamilton

THE performance which is to be given on Tuesday, October 29, by the Hamilton Operatic Society, of "Gipsy Love," will be broadcast by 1YA.

Waimate's Jubilee

Part Proceedings to be Broadcast

THE flourishing South Canterbury town of Waimate, is next month celebrating the seventy-fifth anniversary of its founding. The town will be en fete for a week, commencing Sunday, October 13, when there will be church parades. On Friday, October 18, there is to be a first-class concert, which is to be broadcast.

"The Ship Beautiful"

Musical Play at 4YA

THE musical play "The Ship Beautiful," is to be performed in the Princess Theatre on October 12, and will be broadcast by 4YA on Monday, September 23. The chorus work is mostly performed by quite young performers, whilst the principal spoken parts are in the hands of leading Dunedin elocutionists. The words of the play are by Mr. C. R. Allen, son of Sir James Allen, and the music by Doris Prentice, of Hamilton.

"Galapagos"

(To the Editor.)

SINCE presenting "Galapagos" at 2YA on September 6—just a week ago—I have received many congratulatory messages, for which I desire to express my cordial thanks. At the same time I feel that I owe an explanation and an apology to listeners in general. The performance was not up to standard by any means, and personally I was greatly disappointed. The fact is that my friend Mr. George Warren, upon whom such a heavy burden was cast, was a sick man, just recovering from influenza followed by a heavy cold. It was only his pluck and determination that enabled him to do the part at all. Every moment during the performance I feared he would have to give up the struggle and retire, but fortunately his grit carried him through. He spent nearly all the remainder of his visit to Wellington in bed! Unfortunately, I, too, was suffering from a relaxed throat, and a strained voice. This and other things precluded the possibility of rehearsing the play and the effects at all. However, through the exceptional kindness and courtesy of the 2YA staff, and a number of stout fellows (and one lady), whose unsparing efforts I shall always gratefully remember, we pulled through somehow. I thank them again very deeply, and especially Mr. Trim (programme organiser), who went to endless trouble to help me out. I feel that I owe this apology to our many listeners, and now they will understand why we fell rather short.—J. F. Montague

Radio for Fishermen

THE trawlers fishing off the New South Wales coast are now equipped with wireless apparatus which is suitable for both Morse and telephony communications. These vessels are in regular touch with their headquarters in Sydney, and with other trawlers working off the coast. Information with regard to stores, etc., that are needed on arrival in Sydney can be sent to the shore office from sea, and any needful information with regard to the fishing operations is passed between the various trawlers and shore.

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Wireless for Light Aeroplanes**An Efficient Light-Weight Plant**

A NEW wireless telephone set, which combines a transmitter and receiver, has been designed for use on light aeroplanes. It is contained in a compact wooden box measuring only 16 inches by 9 inches, and even including

the international aircraft wave-band. A quick-change switch is provided, however, to enable the 600 metres ship's wave-length to be employed in an emergency.

The amateur light-aeroplane pilot is



THE IYA ORCHESTRA

Standing: Mr. Eric Waters, pianist-conductor; Miss Mollie Wright, 'cellist; Mr. W. Shepley, cornetist. Sitting: Mr. A. A. Dunn, flautist; and Miss Ina Bosworth, violinist.

—S. P. Andrew, photo.

complete equipment and all accessories. weights only 60lb. Thus it is quite easily carried in all the popular types of light aeroplanes, and its advent supplies a long-felt want.

This set is intended for telephony transmission only, as experience has shown that the pilot, even if well acquainted with the morse code, is usually too occupied with his machine to concentrate on telegraph signals.

Despite its small size, its efficiency is excellent, as though the transmitter only uses 75 watts (power equivalent to that used by many domestic lamps), it will cover ranges of 50 to 75 miles when communicating with the normal class of aerodrome ground stations, while with highly efficient ground stations, such as Croydon, ranges up to 100 miles are easily attainable.

The receiver's range from modern aerodrome transmitters considerably exceeds these distances, and it is, of course, capable of intercepting both morse and telephony. The set, which has very simplified tuning, can be installed for operation by the passenger, or it may be fitted in a convenient part of the machine, and operated by the pilot through a remote control unit.

For normal working, the wave range of the transmitter is 850 to 950 metres,

now enabled, by virtue of the portability of this set, to take advantage of the wireless facilities previously employed only in commercial aviation, an advance that is highly desirable in view of the increasing popularity of private air cruising.

Information of vital importance is thus made available to light aeroplanes, and its value is demonstrated by the fact that international aviation regulations require all commercial passenger-carrying aircraft to be equipped with an adequate wireless installation.

Thus the introduction of this much-needed light and efficient equipment has obviated the principal reason for the hitherto limited use of wireless by small aeroplanes, and in the near future, so indispensable is wireless considered to aviation, probably every 'plane, no matter how light, will carry a complete miniature radio plant.

A SUBSIDY of £20,000 has been granted by the Finnish Government for the development and improvement of wireless stations. Most of this sum is to be expended in building a local station in Helsingfors, which is to be completed by the end of this year.

Road Cycle Race**Timaru to Christchurch Event**

ON Saturday, October 5, the best long distance cyclists of New Zealand will be competing in the famous Timaru to Christchurch Road Race. This annual event always arouses great interest, particularly in the South Island, and 3YA has made arrangements for the broadcasting of progress reports, and of the final, also of the presentation of prizes, which will take place in the Chamber of Commerce at 8.30.

"Belinda"**A Milne Comedy at 1YA**

ONE of the plays performed by the late Dion Boucicault during his last season in Christchurch prior to his departure for the Old Land, where he died, was "Belinda," one of A. A. Milne's delightful comedies. A crowded house greeted the famous actor, and the humorous situations and witty dialogue of the play were greatly enjoyed. Full justice will be done to the radio presentation at 1YA on Wednesday, October 1. The producer will be Mr. J. Clarke and he will be ably supported by a particularly fine cast of local actors.

The Weird in Music

A VERY interesting portion of Tuesday evening's programme at 1YA on October 1 will be a lecture-recital descriptive of "The Weird in Music." This is to be given by Mr. Karl Atkinson, and the selection he has made to illustrate his remarks will include orchestral and vocal numbers comprising "Fantasy on Song of India," "Danny Deever," "Valse Triste," "Death of Don Quixote," "Danse Macabre," and "Ride of the Valkyries."



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Station Located.

IN reply to Mr. Jemmett (Gordonton), the station he heard was KEWB, operated by Warner Bros. Studios, Hollywood. I have added a few more stations to my log, the latest being 2ZD, 4ZO, WEBC, WOC, and WIXG. When I picked up WIXG they were operating on approximately 1000 kilocycles, and as loud as 2ZF.—A. E. Ireland (Tara-dale).

Information Wanted.

"SONORA," of Lyall Bay, Wellington, would like to know if any listener in possessing a set similar to his own can receive American broadcasting on it. His set is a six-valve factory-built one of modern design. His aerial is 35 feet high and 80 feet long, including lead-in, and his earth consists of six copper tubes sunk five feet in the ground, each one foot apart. He also wishes to know the best hours for American reception, and what transmissions may be received after 12.30 a.m. During three months operations he has logged 26 stations in all, including two Japanese ones.

A Fair Enthusiast's Appeal.

I HAVE been receiving a station at 63½ degrees on the dial of my factory-built all-electric set, just below 700 kilocycles. On Sunday night last (September 15) they came through very strongly, and after finishing their church service at about 12.25 a.m. (New Zealand time) they commenced their evening programme. Every time the announcer spoke static prevented the call-sign from being heard, but I have an idea it is Perth, Australia, as they are apparently four hours behind New Zealand time.—Miss Ethel Stenson, Wanganui.

Graf Zeppelin Again.

WILL someone identify: August 27, N.Z.T. 1.30 a.m. Description of Graf Zep. 2FC, Sydney had closed down and I received the signals within ½ of a degree on my dial of 2FC. My dial 50.—R.T.I. (Lyttelton).

THE D.X. CLUB

Views and News.

Identification Wanted.

R. J. COTWELL, of Greymouth, heard on the evening of September 14 the following two stations:—The first, transmitting on about 215 metres, was broadcasting test programmes, one item being recognised as "A Night of Meditation." New Zealand time was 7.25 p.m. Call sign W—KY.

The second, wavelength about 235 metres (no call sign distinguishable), was playing fox-trots, one item being "Forty-seven Ginger-headed Sailors." Time, 12.30 a.m.

E. J. WILLS, of Napier, operating a five-valve battery set on Saturday last, between 7 p.m. and 8 p.m., heard a station, apparently American, with a call something like WOPY, operating on a wavelength a little below WBBC, Brooklyn, New York. (This latter station, incidentally, is probably one unidentified by Mr. Cotwell.) The station in question announced that it was a test transmission, and asked for reports of reception. As far as he could gather, the station is a new one.

A. E. ALLEN, of Avondale, wishes to know if anyone can identify two Tasmanian and one American station transmitting on approximately 1400 kilocycles—i.e., a wavelength of about 215 metres. The dial reading for each being 5, 6 and 4deg. respectively.

J. RIACH, of Central Otago, would like to know if anyone could supply him with the address of station WCKY, —, Kentucky, U.S.A. He

heard him on Saturday night (the 14th inst.), and would like to get a card from there.

An Excellent Performance.

RE "Long Distance Reception" in your last "record," writes "Radio Fiend," of Halcombe. About two years ago I made my first one valve set, and this is my log of stations, all of which were verified by friends. ("Radio Fiend" then adds a log of 17 stations in all, among them being 5CL and 7ZL, these latter being occasionally faint.) Since operating a four-valve set my log has increased to 28 stations, including Australian, Japanese, and Philippinian stations. This log is considered very good in our location, and so far has not been beaten by any five-valve set.

Good American Reception.

IN reply to "Puzzled" (Masterton), I am glad that I may be able to help a little in the placing of a station which he received and could not identify. This is station WOW. Last Saturday night, at 7.5 p.m. I picked up this station at good speaker strength, giving orchestral items. When these were finished he gave the announcement, "WOW, Cincinnati, Ohio." A long list of names from those who were receiving his transmission in various parts of the States, was then read out, and the announcer also asked for more names and reports. Then followed a saxophone solo, and the announcement gain, "WOW, Cincinnati." I am perfectly sure of this location, and hope it will help "Puzzled." As WOW came in on the dial at 62½, and Wellington comes in at 60, it is rather difficult to separate them. The set is an all-electric seven-valve, using a 50-foot aerial, and not a very good one. So far, with three weeks' use, we have had nearly 50 stations on it.—Arthur E. Allen (Avondale).

A One-valve Achievement.

K. D. McILRAITH, of Ashburton, who recently constructed a one-valve set of simple design, is able to pick up five Japanese stations very clearly with headphones, as well as receiving the New Zealand and Australian stations at full strength. He would like to know if anyone else has received the same under similar conditions.

With Three Valves.

REGARDING E. H. White's (of New Plymouth) query as to whether any other D.X. enthusiast has equalled his D.X. log, I have, on a three-valve and generally on two valves using Reinartz regenerative circuit logged the following stations on good speaker strength. Log for September 13 from 10.10 p.m. till 12.30 listening to broadcast concerts between logging. (Mr. Skelton then adds a log of 16 stations, including Australian, Japanese, Siberian, American and Javanese stations.)

Reports Wanted

MR. A. E. HACKETT would welcome any reports of an American short-wave station transmitting telephony on the 23-metre band. The times given in his following log are New Zealand standard times:—

Monday, September 8: At 9.15 p.m. weak carrier signals were heard (R45). At 9.20 p.m. a children's physical exercise lecture was given. At 10 p.m. signals became very weak, and fading was pronounced. A few adjustments resulted in a harmonic of 2YA, Wellington, coming through. After 2YA closed down, the stranger gave weather reports concerning various States, and tunes of future sessions at WGY, WEAF, 2XAF, and a Buffalo station. He then closed down, but his call sign was not clear.

Tuesday, September 9: Tuned the stranger in again at 9 p.m., and at 9.30 p.m. he announced that station — was broadcasting a special programme to Tokio. At 10.30 p.m. a rooster's morning greeting was given, followed by a bugle call, and the statement that the time was 7 a.m. E.D.S.T. The usual children's exercises were then given.

Further efforts to tune in the stranger on Wednesday and Thursday were of no avail. Any reports would be much appreciated.

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READERS who are in the habit of using six-pin coils and interchanging them frequently so as to tune in the lower and upper wave-bands, should make a point of examining the pins from time to time, as imperfect contacts are sometimes caused by the two halves of the split pins being pinched too close together. It is not always realised that a faulty contact may bring about a considerable reduction of signal strength without indicating its presence by a complete "dis." This is particularly the case in sockets connected to grid circuits.

To remedy matters remove the coil and open up the pins by inserting a thin knife in the cut. If the coils are used in exposed places without a box or cabinet, the base should be kept well free from dust.

A Novel Tour

THE General Electric Company, of America, recently dispatched an engineer on a survey of the United States for the purpose of ascertaining facts concerning the average reception of their three broadcasting stations, namely, WGY, Schenectady, KGO, Oakland, and KOA, Denver. He is travelling in a car especially equipped with a high and low frequency receiver, and his investigations will deal more especially with reception in rural districts, where the listener is practically dependent on high-powered stations.

My set is all-wave and consequently not up to standard of straight-out short-wave.—H. Shelton (Gisborne).



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THAT the neutrodyne set, which is a "silent worker" when properly neutralised, can also be a veritable nightmare to neighbouring listeners owing to its howls, is still unknown to beginners and even to others more experienced. The writer has been requested to publish the most approved method of neutralising a neutrodyne. "Switch" would first emphasise a fact frequently overlooked by experienced listeners, viz., that the changing or renewal of a radio frequency valve in a neutrodyne is apt to throw the circuit out of balance and change it into a "howler" of the most malignant character. If a valve is changed or replaced, the set should be re-neutralised.

TO neutralise a neutrodyne tune in a fairly shortwave broadcast station, say 3YA, Christchurch. Insulate with a piece of paper wrapped round the filament prong of the first radio-frequency valve, adjust the neutralising condenser until the station can just be heard. Then remove the piece of paper from the first radio frequency valve prong and treat the second radio-frequency valve the same way. When the paper is removed from the second valve the volume should be stepped up considerably, and the set is correctly neutralised.

THE Browning-Drake circuit can be a nasty howler if incorrectly neutralised, and judging by the shrieks which pierce the welkin on Wednesday evenings around Wellington there are several Browning-Drakes which require adjustment. To neutralise a Browning-Drake circuit, remove any condenser, fixed or variable, which may be directly in series with the aerial. Tune in 3YA, Christchurch, using as much reaction as possible without distortion, bringing the station in at full volume. Place a piece of paper right round a filament prong (the thick one) of the radio frequency valve and replace it. The volume will now be diminished, but by adjusting the neutralising condenser the station will return to full volume. Next tune in a station about the centre of the dials (say 3LO, Melbourne), and make a final adjustment of the neutralising condenser. Another efficient method was described in the special issue last week.

WITH the departure of H.M.S. Dunedin last week from Wellington also departed the annoyance experienced by many city listeners caused by morse transmission from the warship. The radio waves from the cruiser came in at various places on one's tuning dials. At times a receiving set would be tuned in to one of the New Zealand stations when a mysterious crackling would burst in on the music. A slight turn of the tuning dial and the ear-splitting "note" of the warship's morse would almost shatter the diaphragm of the loudspeaker. However, all's quiet on the Wellington waterfront now.

THE perennial question has again been put to "Switch," whether a crystal set should have a long or short aerial. It is only when there are two broadcast stations in the vicinity that a short aerial is desirable in order to avoid interference from the unwanted station. A short aerial means greater selectivity but a decrease in volume. Here is what a leading authority says on the subject: "A crystal receiver needs all the energy that can be fed to it. Energy is collected by the aerial, which should have

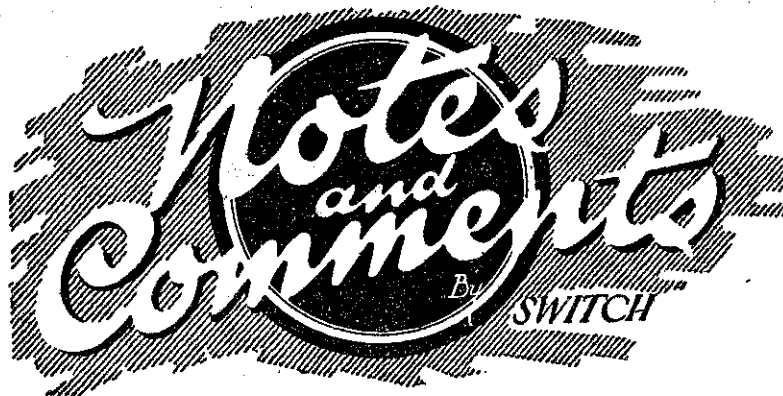
as large a collecting surface as practicable if maximum volume is to be attained. For crystal reception a short aerial should be used only when other means of securing selectivity have proved ineffective."

THE editor of the Australian Broadcasting Company's publicity department writes:—"A kiwi in the last century was a queer Australian bird which inhabited obscure deserts and didn't know the first thing about flying. Now it is more correctly defined as a novice of the aero club, found almost everywhere, and although they do not know anything about flying, they are doing their best to learn." "Switch" never heard of the kiwi inhabiting obscure Australian deserts. He always thought the kiwi was peculiar to New Zealand, and instead of wandering in deserts preferred the dense forests. "Switch" lived for several years in Australia during the last century and is sorry that he never met even among the oldest inhabitants anyone who had heard of a live or dead kiwi being found in Australia.

A DIFFICULTY encountered in connection with A.C. receiving sets in some localities is the excess or, not infrequently, deficiency, of voltage in the electric main supply. A set the writer examined recently, was being operated on low voltage from the mains, and distortion was resulting. The owner was advised to communicate with the electricity department of the City Corporation if no improvement was noticed within reasonable time.

A LITTLE while ago "Switch" was asked to account for the frequent burning out of his "heater" type A.C. detector valve. An A.C. voltmeter was plugged into the socket of the detector valve and a 20 per cent. over-voltage was disclosed. A further test of the other valve sockets showed a corresponding excess. A specially wound resistance was placed in circuit between the set and the mains, and no further trouble was experienced.

AN A.C. voltmeter, reading up to 4 or 5 volts, is now an essential adjunct to the equipment of all radio service men in New Zealand now that A.C. sets are being sold in quantity. The voltmeter should be of the best quality, even though they are more costly than the D.C. voltmeters. Some of the troubles, and they are exceedingly rare, in A.C. sets are due to improper voltage from the mains.



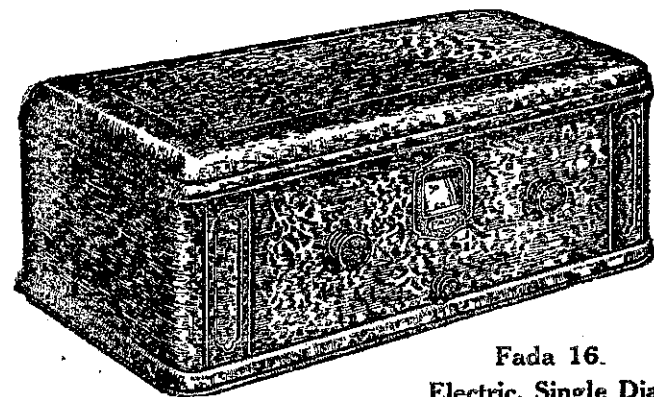
study of the various animals there is more easily accomplished.

AMONG the talented foreigners now being heard from the Australian broadcast stations are Senia Chostia-koff, tenor, a member of the Russian aristocracy; Sigmund Menchinsky, Polish viola player, a former member of the Symphony Orchestra attached to the Tsar's bodyguard, and Mischa Dobrinski, Russian violinist, leader of the same orchestra.

HOME constructors who are novices sometimes find themselves hopelessly fogged when building up a set from a circuit diagram, a circumstance which could be avoided if they observed only reasonable precautions. A set was brought to "Switch" last week embodying the Browning-Drake circuit. The best parts were used, and the soldering and wiring would have passed for professional work, but the set declined to operate. A tedious examination revealed that two wires were wrongly connected. If the builder had marked off on the circuit diagram in blue lead pencil each wire after it had been connected up, and if he had carefully checked the wiring, the trouble would not have occurred.

A CORRESPONDENT has suggested that a relay should be put on the air from 2YA, Wellington, of a visit to the Wellington Zoo, as is about to be done in connection with the Taronga Park Zoo at Sydney. There are not the facilities at our zoo for obtaining a circuit by telephone wire to 2YA, Wellington. To carry the microphone from cage to cage around our spacious zoo would require lengthy and most costly flexible leads to the nearest telephone circuit. Taronga Park Zoo is more compactly laid out, and the proposed relay of a nature

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Distortion in Taranaki.

CAN you explain why 2YA station gives such distortion? We tried to listen to the concert from the Town Hall on Friday, September 13, but it was utterly impossible to hear anything at all, it just seems to choke all the time. All the people up here say the same, yet when we log into 1YA and 3YA it is beautiful. Our set cannot be at fault or else it would distort the other stations similarly. Australia comes in splendidly. We have a seven-valve all-electric set with a dynamic speaker.—E.L.C. (Taranaki).

Tacet not Wanted.

I OBJECT to the tacet in the dinner-music. This is no doubt a sore point to country listeners. To some it is all right, but in most country homes the set is turned off and is often not started again, so the dinner music is gone. I have asked quite a number of listeners their opinion of tacet, and by one and all it is condemned. Will all objections be ignored? Why not a vote on the subject? I appeal to other listeners to back me up by sending in their objections. I think we will soon get it cut right out. As far as I am concerned there is nothing wrong with the concert programmes, and the announcer is first class. The dinner music to most farmers who retire at 9 o'clock takes the place of the later music. Do you think we are asking too much?—B. W. Friis (Reporoa).

"Drifting and Dreaming."

NO, Sir! I cannot agree with the dinner music tacet—neither can anyone else with whom I am acquainted. It is jolly annoying to have to keep turning the set on and off (for my



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.

Scotch nature could not allow me to let it run while nothing was coming over). It quite spoils my appetite and after a heavy day's ploughing or whatever the work for the day might be, one can do with a square meal and a little restful music. Keep it going all through—we can tone down the set if it is too loud to permit conversation. Furthermore, if we then want tacet we can make our own. Leave it to our good discretion—don't inflict these silences upon us.

Another growl—that wretched announcement in the middle of a selection. It does jar, especially when one has finished dinner and with a pipe between his teeth and his feet on the mantelshelf closes his eyes and let the imagination run with the theme to be brought back hard to earth by "2YA, Wellington." The other night they were playing "Broadway Melody"—and oblivious of time and place, my

mind, grasping the spirit, was fitting over my first impressions of New York (we called there on our return from France), when with a thud the announcement right in the middle of my happiest memory. Off went the set—I consoled myself by the Thursday special.

Mr. Editor, you have some influence. Please use it on behalf of we silent sufferers.—"Dreamer" (Otahu).

[The announcement of the station is not made for fun, but to comply with the broadcasting regulations of the authorities requiring the name of the station to be given at certain intervals.—Ed.]

Radio Announcing.

THANKS to Mr. Ball for the long list of interesting news on Monday evening, we had news from Auckland to Bluff, and a budget from overseas, and all well given, and in short time. Mr. Fred. Martin is a bit contradictory. He thinks 2YA's announcer the best in New Zealand and is pleased to hear him say "Good-night." Mr. M. may be a judge of boxing, but I guess he is not of elocution. I have already said Mr. Announcer at 2YA had improved, but I was too modest to take any credit. It is a fact, however, that such improvement has been most noticeable in the past three months. I pointed out, too, that I thought all speakers, as well as announcers, should say "Good-night." "Good afternoon," etc., when going off, but "Thank you" was, I considered, unnecessary, as few speakers are so stale, flat and unprofitable as to require to thank the public for listening. I will not continue this controversy, but I shall feel it a duty to give healthy criticism, if such is necessary, as I believe the Broadcasting Company are out to improve where that is shown possible, and I think the "Radio Record" welcomes any correspondence with that objective.—"Lux cum Amore."

A Much-Discussed Point.

A POINT sometimes discussed by short-wave listeners is the actual time at which Big Ben is broadcast by Station 5SW. Advice received by Mr. T. P. Sewell, of Christchurch, from the authorities at 5SW is to the effect that Big Ben is actually broadcast by that station only at midnight, Greenwich time. The "tweets" which are sometimes heard locally by listeners at 9 p.m., Greenwich time, are the special 6-dot seconds then given out as time signals.

From Fiji.

I AM the possessor of a factory-made set, and have been listening in to all the New Zealand and Aus-

tralian stations for the past 12 months, and on no occasion have I had to complain.

Taking into consideration the distance I am from those stations, and allowing for tropical conditions, I say that the broadcasting of New Zealand and Australia have come in on tremendous volume; and on many occasions I had to reduce the volume by more than half.

I make it a point of tuning in at 5.30 p.m. (N.Z. time, 5 p.m.), and have no occasion to shut down until I hear that well-known voice from 2YA say "Good-night."

There are only a few of us here who have sets, and I have heard from all that the programmes broadcast are all that could be desired, and I am taking this opportunity of congratulating 2YA and other stations for the manner in which they have broadcast.

August 8, 9, 10 and 11, during the stay of the Maori party, a number of New Zealanders were present in my house, and could not express their delight for the magnificent programme submitted by the Maoris. It was received here at full loudspeaker strength. —"Contented" (Rarawai, Fiji).

Thoroughly "Disgusted."

THE letter of "Disgusted" (Invercargill) of 13th inst. issue from one point of view calls for a drastic reply; from another, deserves to be simply ignored!

He is apparently one of those individuals who flouts and treats with contempt any opinion but his own. He should realise that very many people thoroughly appreciate the grand opera recitals. Possibly he is a fortunate person, who is able to purchase all the new and expensive high-class records as soon as they are released. (I pictured him, however, as one who thinks "In a Monastery Garden," "In a Persian Market," "In a Chinese Temple Garden," or "In a Zulu Market Garden" as the finest music ever written.) But he should remember that all listeners are not equally fortunate and are glad to hear good records over the air. The idea of preferring a "trio" for the dinner-music sessions is farcical. If "Disgusted" possesses an up-to-date set, capable of good reproduction (he should do, as he possesses all the good records) and is himself capable of managing it, he should realise that with most of the high class records—electrically recorded and electrically reproduced—it is impossible to be certain that the actual orchestra or vocalist is not at the other end! From a musical point of view very few New Zealand artists can as yet achieve as much. "Disgusted's" objection to "canned" music as such cannot be based upon the musical results, but merely upon the fact that he considers that the Radio Broadcasting Company are not spending as much money upon his entertainment as they should do! He would rather (he says so deliberately) have a much less interesting session by a trio—at higher cost—than a first-class concert from well-chosen records. There can be no two opinions as to the interest!

On only one minor point do I agree with "Disgusted," and that is on the question of alternative programmes on Sundays; but I realise that religious opinion in the four centres is too strong for such an innovation, and I

(Continued on page 24.)



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THE directors of the General Steam Navigation Company, England, are to be commended on their recent policy of fitting their new ferry steamer, the "Crested Eagle," with an up-to-date wireless installation for the purpose of broadcasting concerts en route to Margate. When the "Crested Eagle" glided down the Thames on her maiden voyage she progressed to the accompaniment of gay and lilting tunes, stately overtures, and dashing melodies from the operas, interspersed with running descriptions of places passed. Although the programmes can be heard with comfort in nearly every part of the ship, special provision is made for those who wish to enjoy the beauties of nature in silence. Presumably, in the event of stormy weather, this provision is also for those unfortunates whose one desire is to suffer in silence, and not to the ironic strains of "A Life on the Ocean Wave."

A FURTHER instance of the educative possibilities of wireless is given by the University of Alberta, which is to broadcast free university lectures during the winter months for the especial benefit of trappers and others living within the Arctic Circle. These lectures are to be supplemented by books supplied by the Government "travelling libraries." The idea is an excellent one, and should do much towards brightening the lonely lives of those who live in the Far North.

SURELY one of the most remote of all remote controls is that fitted to the five-metre transmitter of WGY, Schenectady. To avoid body capacity the tuning is done at a distance of one hundred yards from the transmitter by means of a rope-driven vernier!

FOLLOWING the remarkable success of the rebroadcast in Canada of the Westminster Abbey Thanksgiving Service, listeners there have commenced an active agitation for more inter-Empire broadcast programmes by the Beam method. The comments made in letters of congratulation to the company concerned, indicate that the quality of the transmission was marvellous and quite up to the standard of a first-class local broadcast. That the excellence of this transmission was entirely due to the beam link is demonstrated by the fact that listeners who attempted to pick up the transmission direct found that their reception, owing to the prevailing conditions, was very poor. Reception on the beam circuit was, however, so good that the programme was passed on to Australia over the Canada-Australia Beam, and was successfully rebroadcast there.

A STEP in the right direction towards perfect radio harmony would probably be effected if each person taking out a wireless license, automatically became a member of a society which arranged its own programmes, traced and prosecuted pirates, and even issued licenses. This idea, though probably a good one theoretically, would scarcely be practicable. Its chief virtue would lie in the quietening of discontented listeners, because when they themselves could, if they wished, help in the choosing of programmes, they would be unable to complain against anything not entirely suited to their own tastes.

RECENTLY the Chinese Government announced its intention of installing a very powerful station. The situa-

tion is to be Shanghai and the purpose is mainly that of communication between China and Europe. In the contract there is a stipulation that all communications or entertainment relayed to European countries must pass through the French centre of Saint-Assize.

TO pass away the long Polar nights, Commander Byrd and party listen to the broadcasting of very many stations. They recently stated that the stations of Siam, Japan, and of Australia were fairly well received, whereas those of America and Holland were 25 per cent. superior to those of any other country.

ANNUAL reports on the Mandated Territory of Western Samoa states that arrangements have been made for the erection of a new station in Apia township. The building secured was formerly a school, and the grounds cover an area of over three acres. Apia radio now carries out point-to-point transmissions by continuous wave type signal, thus complying with the new regulations made at the International Radio Telegraph Conference of 1927.

BUDAPEST was hitherto the only place where broadcasting was "laid on" to the ordinary telephone subscribers. However, Odessa has now adopted the device, and has linked up its telephone system with the local radio station, serving some 9000 subscribers. No radio receivers are necessary and suitable amplifiers and loud-speakers can be hired.

A DOMESTIC servant who after being in Canada for one week was afflicted with such a bad attack of home-sickness that she telephoned London by the trans-Atlantic service and spent the whole of her savings of £20 after five minutes talk with her people.

FOLLOWING on lines similar to those of other countries, the Australian Broadcasting Company has decided to place in the programme of 2BL each day at 10.45 a.m. a short religious service for those who are confined to their homes or to hospitals. The churches have expressed their willingness to co-operate in supplying these short daily messages.

MARQUIS MARCONI in a recent interview stated that the attempt to send messages to Mars was a waste of time, and that there was no need for Robots (mechanical men) as long as there are living men, and that we are not yet near the day of the pilotless aeroplane.

GERMANY takes the broadcasting of plays very seriously. The Press criticise all plays broadcast, and the whole of the 124 plays broadcast up to the end of 1928, received publicity in

the Press. Of this total, 57 were tragedies, 31 comedies, 7 special radio plays, 5 lyric dramas, and 24 other pieces.

THE Byrd Expedition carries with it no less than 500 wireless valves. 387 of these are for reception, while the majority of the remainder are for transmission. They have material for the construction of over 100 complete wireless receiving sets. Besides this apparatus, the expedition carries much material for experimental purposes.

NO mercy is to be shown to unlicensed transmitters in Australia. According to the latest regulations issued by the Commonwealth Postmaster-General, the penalty for conducting illicit transmission will be a fine of £500, with or without a term of hard labour not exceeding five years.

A NEW wireless police force is to be instituted in Paris after the style of the American Flying Squads. Experiments will shortly be made in communicating from the Eiffel Tower with the police of London and Berlin. It is stated that the "air" police will be recruited from the ranks of ex-army telegraphists.

THE new Huddart-Parker liner Westralia, which recently sailed from the Clyde en route for Australia, has been fitted with one of the most modern and complete radio equipments of any vessel afloat. It comprises, in the main, a transmitter, an extremely compact

and light lifeboat set, a broadcast receiver, and a band "repeater." By means of the latter, radio programmes or ship's band concerts can be amplified and broadcast anywhere on the ship. The efficiency of the transmitter is demonstrated by the fact that communication was effected with Perth on the voyage out, while the ship was still 4300 miles from that station. This is indeed record working for such low power (1½ kilowatts) especially as transmission takes place on the relatively high commercial frequency of 500 kilocycles (600 metres).

THE University of Alberta, Canada, has decided to cater for the farmers, fur traders and others living in the far north by providing a free university course for the man with a radio receiver. Keen in the past to acquire knowledge, these listeners-in are expected to take considerable advantage of the course provided.

HALF interest in the Columbia broadcasting chain in America has been purchased by Paramount Pictures, thus bringing together two leading amusement companies in their respective spheres. The new co-operative effort combining radio, screen and stage talent is an epoch-making combination. It portends the early practical broadcasting of motion pictures by television, according to information received.

IT is expected that jazz music will be banned by all Australian broadcasting stations, following the appointment of Professor Bernard Heinze, of Melbourne University, as director-general of wireless music of the company which has secured the contract for programmes in all States. Professor Heinze's first act was to abolish the jazz band at 3LO.

VICTORIA, with a drop of 457, is the only State in which the number of broadcast listeners' licenses decreased during July. In all Australia, the new license issues exceed cancellations by 1993, leaving a total still in force of 303,192. Of the cancellations 3307 were in Victoria.

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Next Week's Features

1YA Features

THE afternoon sessions on Sunday will be devoted to a broadcast of the celebrations in connection with the 77th Anniversary of the Beresford Street Congregational Church. The evening relay will be from the same church. The Rev. Lionel Fletcher will be the preacher.

A STUDIO concert will follow the broadcast of the church service. Miss Made Clague will sing "Sunday," "Love Song," and Schubert's "Serenade." There will be pianoforte items by Miss Hazell Rainey, while elocutionary numbers by Mr. C. Paine will include "Play Up and Play the Game," "The Robber," and "Young Fellow My Lad." Some choice gramophone records will be introduced.

ON Tuesday evening at 7.40 a talk on "Artistic Physical Development" will be given by Madame Edith Baird. Another talk on Tuesday evening will be one of the series by Mr. A. B. Chapell on topical affairs.

THE operatic vocal numbers of Tuesday evening's programme will be sung by Miss Millicent O'Grady, Miss H. Rosieur, Mr. T. Moffitt and Mr. Len Barnes. The solo numbers will include "Caro Nome" (from "Rigoletto") and "Vision Fugitive" (from Massenet's "Herodiade"). There will be a duet, "Home to Our Mountains," and the quartet, which will be known as the Orpheus Quartet, will present the pretty song cycle, "Wind Flowers." Instrumental items will be supplied by the Studio Trio and by Miss Margot Toner (a brilliant young pianiste). Mr. T. Harris will contribute elocutionary numbers.

MADAME MABEL MILNE will give a talk on Wednesday evening at 7.40 on "Health and Diet."

THE evening's studio programme will be almost exclusively devoted to

the presentation of a three-act play, the well-known "Belinda," one of A. A. Milne's comedies. The producer will be Mr. J. M. Clark. Between the acts orchestral items will be presented.

ON Thursday evening at 7.40 another of the W.E.A. series of lectures, "The Modern Age—As the Man of Science Sees It," will be given by Mr. N. M. Richmond.

THE evening concert programme will include thirty minutes of fun and novelty items by the Four Originals.



MISS CECILIA DUNCAN,
An Auckland soprano.
—S. P. Andrew, photo.

who will perform the third sketch of their amusing "Oh, Millie!" series which have proved so popular. A vocal trio of ladies, the Celeste Trio, will also contribute to the programme. There will be instrumental numbers by the Studio Trio.

INCLUDED in Friday evening's programme will be a one-act play to be presented by a new combination of dramatic and comedy players under the direction of Mrs. Zoe Bartley-Baxter. The cast will include Miss Ysolinde McVeagh, who gave an outstanding performance in "Mrs. Moonlight," recently produced by the Auckland Little Theatre Society. Miss Cecelia Duncan, soprano, will contribute to the musical portion of the programme. There will also be a thirty minutes' relay from a concert to be given in the Lewis Eady Hall. Instrumental items



SIGNOR SAVINI,
A brilliant violinist from 3YA.
—Stephano Webb, photo.

will be played by Miss Ina Bosworth (violin) and the Studio Trio.

COMMENCING at 11.30 on Saturday, the results of the events at the A.R.C. meeting at Ellerslie will be broadcast.

CONTRIBUTING to Saturday evening's programme will be Miss Madge Clague (contralto), Miss Edna Langmuir (in piano and soprano solos), Mr. H. Richards (baritone), Mr. Dan Flood (humourist) and the Studio Orchestra. A number of gramophone records of wide variety will be introduced.

2YA Features

THE TERRACE Congregational Church service will be broadcast on Sunday evening. The Rev. C. Wickham will be the preacher. At 8.15 the concert to be given by the Port Nicholson Silver Band will be relayed from the Grand Opera House.

On Monday evening a concert will be relayed from Hawera. This has been organised by a committee formed for the purpose of installing receiving sets in the Hawera hospital.

ON Tuesday afternoon at 3.30 Mr. W. M. Jackson will give a lecture on the selection, culture and care of gladioli. Mr. Jackson is a recognised expert on gladioli growing, having concentrated on this species of bulb for over thirty years. His lecture will be of much interest to amateur gardeners. At 7.40 there will be a talk "For the Man on the Land."

A BRIGHT studio concert will be presented on Tuesday evening. Apart from the fine programme by the Studio Orchestra, excellent vocalists will be contributing in the persons of Miss Myra Sawyer (soprano), Mr. William Boardman (bass), Messrs. Edward Silver and Claude Hoare (in popular songs and jazz piano solos), and Miss Areta Wharton (humorous reciter). Mr. V. Brown will play a trombone and cornet duet.

At 7.40 on Thursday evening Mr. A. J. Nicholls, representing the Hutt Valley Horticultural Society, will speak on "Gardening."

THURSDAY evening's concert will be provided by the Wellington Municipal Tramways Band, with assisting 2YA artists. The band will present one of its best and most varied programmes. The popular Lyric Quartet will sing concerted and solo numbers. Also singing will be Mrs. Alma Millward, whose numbers will be "The Joy Bird," "Rose in the Bud," and "You in a Gondola." Humorous elocutionary items will be given by Mr. Hedley Aitken. There will be a trombone solo by Bandsman Tallantyne.

Heralding the cricket season will be a talk at 7.40 on Friday evening by Mr. A. Varney, secretary of the Wellington Cricket Association.

THE studio programme on Friday will feature Kerker's very popular musical play, "The Belle of New York." The vocalists will be Mrs. Ray Kemp, Miss Gretta Stark, Mr. Will Hancock and Mr. Ray Kemp. Selections will also be played by the Studio Orchestra. Contributing to the programme, too, will be Mr. and Mrs. Albert Russell, the popular entertainers.

At 7.40 on Saturday evening there will be a travel talk by Mr. V. Hutchison. His subject will be "Travelling Home Through the United States."

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For the evening studio concert a very bright programme has been arranged by the Studio Orchestra, the Melodie Four, Mrs. Mildred Kenny's Guitar Orchestra, Mr. Will Wye (humour), and Mrs. Winifred Birch-Johnston (comic song and whistling solo).

3YA Features

THE Rev. L. B. Neale will be the preacher in St. Albans Methodist Church on Sunday evening, when the service is to be broadcast. A brief studio concert will follow till 8.15, when 2YA will be rebroadcast. Contributing to the local studio concert will be Miss Margaret Lorimer (mezzo-contralto) and Mr. Theo. Turner (baritone).

MONDAY evening's programme will feature the Woolston Band, under Mr. R. J. Estall, and associated with them in a miscellaneous programme will be some popular vocalists who have not been heard from 3YA for some time. One of the artists, Miss Lottie Colville (mezzo-soprano) has recently gained success in musical competitions. Miss Marjory Miller (soprano) and Mr. John Worgan will also be welcomed. Mr. Arthur T. Couch (tenor) is always a popular singer. Mr. Harold Shaw, who has recently gained elocutionary prizes at competitions, will contribute "Bendy's Sermon" (by Conan Doyle) and "Our Folks."

On Tuesday evening 3YA will relay a concert from Timaru.

Wednesday evening's programme will consist of a studio concert to be given by the Christchurch Orchestral Society, under Signor Oddone Savini.

ON Thursday evening at 7.30 there will be a lecture arranged by the 3YA Primary Productions Committee. Mr. O. W. B. Anderson, chairman of the committee of the Canterbury Horticultural Society will speak on "The Aims and Objects of Horticultural Societies."

MRS. Ross Brodie, of Rangitata Island, who has previously sung most acceptably for 3YA listeners, will be heard again on Thursday evening, when her items will comprise an operatic solo "Softly Awakes My Heart," "The Tryst" (by Sibellius) and Haydn's "Hark, What Shall I Tell Thee." Mrs. A. Edwards (soprano) will also sing two operatic numbers, and "The Fisher's Widow." Mr. A. Gladstone Brown, a fine baritone, will make his radio debut. He will sing "A Soft Day," "A Summer Time on Bredon" and "Myself When Young" (from "In a Persian Garden"). Another welcome singer will be Mr. W. J. Trewern (tenor). Instrumental items will be provided by the Studio Trio, Mr. H. Beck (cellist) and by specially selected records.

Elocutionary items by Mr. Culford Bell, announcer at 1YA, will be a feature of Thursday evening's programme.

ON Friday evening there will be another talk to farmers, this time concerning the choice of grass seed. The talk will be based on the Agricultural Bulletin No. 3 and will be given by Dr. Chas. Chilton. Singers for Friday evening's popular concert will be Miss Ella Skurr (who reappears in radio after a long absence), Mrs. E. H. Davies (mezzo-contralto), Mr. Robert Allison (baritone) and Mr. W. J. Richards (bass). There will be recitations by Mrs. Margaret Williams and Mr. N. N. Cornish, winner of the month-organ playing at the last Christchurch competitions, will be performing. The dance music of the evening will be provided by the Bailey-Marston Dance Orchestra. The selections played will, as usual, include the latest airs.

On Saturday evening 3YA will rebroadcast 2YA.

4YA Features

PASTOR W. D. MORE will be the preacher of the broadcast sermon on Sunday evening, when 4YA will relay the service from St. Andrew Street Church of Christ. The concert to follow will be given in His Majesty's Theatre by the Dunedin Tramways Band under Mr. C. Morgan.

A PLEASING attraction on Monday evening's programme will be the presentation of portion of the famous song cycle "In a Persian Garden." This is to be performed by the Majors under the direction of Mr. T. J. Kirk-Burnand, "In a Persian Garden" consists, as is well-known, of many of the stanzas from Fitzgerald's beautiful translation of the Rubaiyat of Omar Khayyam, set to music by Liza Lehmann. The same vocalists will contribute an excellent supporting programme, and instrumental items will be given by Mrs. E. Drake (pianiste), Mr. Frank Parsons (violin), and Mr. P. J. Palmer (cello).

THE fifth of the series "With the Poets" will be given on Monday evening by Mr. Angus Gorrie. He will deal with "Robert Bridges—Poet Laureate."

THE programme to be given by the St. Kilda Band, under Mr. James Dixon, on Tuesday evening will be up to the usual high standard. The marches to be played will be "Love and Honour," "Paragon," and "The Crusader." There will be a waltz, "Queen of Rubies," a cornet solo with band accompaniment, "When You Come Home," the overture, "Golden Sceptre," and a selection entitled "Minstrel Melodies." The assisting vocalists for the evening will be Miss Louise de Reya (soprano), Miss Dorothy Allan (contralto), and Mr. Buster Brown (singing Lauder songs).

One of the songs to be sung by Miss Louise de Reya is a local composition: "A Kiss, a Caress, and then Adieu." This number is in course of

publication by Allan and Company Pty. Limited, Melbourne. The composer is Mr. David S. Sharp, pianist-composer, of Dunedin, who collaborated with Mr. Ed. Hoyland, of Auckland.

WEDNESDAY'S programme will consist of an hour and a-half's entertainment by the Four Aces Concert Party. Linked together by stories and repartee, there will be concerted items, solos, monologues, and pianoforte solos. Some humorous numbers will be included in this popular broadcast. A dance music session will follow.

HERMANN LOHR'S pretty song cycle, "The Little Sunbonnet," will be presented on Friday evening by 4YA Harmonists. The supporting musical programme will be of a miscellaneous nature.

ON Saturday evening 4YA will relay from 3YA.

Children's Sessions

AT 1YA.

TUESDAY, OCTOBER 1.—Dialogues, sketches and songs from the pupils of Miss Carte-Lloyd, so an entertaining hour is assured. Stories and jokes from Uncle George.

WEDNESDAY.—The usual cheery choruses and stories from Uncle Tom. Musical items from cousins.

THURSDAY.—Peter Pan and Cinderella off on one of their jaunts—a picnic this time. They are sure to meet with adventures, and, yes, they are certain to have many arguments.

FRIDAY.—Aunt Jean will send the birthday greetings, tell stories, and sing some of her songs that are so popular with all.

SATURDAY.—Lois and Eileen are old favourites, and will provide us with duets and solos this evening. Cinderella and the Radio Postman will each attend to their duties.

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

FROM 2YA.

MONDAY, SEPTEMBER 30.—Cousin Betty will recite some more of her charming little poems. Cousin Zac will play jolly music on his steel guitar, and Uncle Jeff will send birthday messages.

TUESDAY.—Four new cousins tonight with music and poems; also Cousins Joyce, Gladys, and Jumbo. Uncle Jim will send birthday greetings.

THURSDAY.—Some new cousins tonight—the Y.M.C.A. Optimists. They have nursery rhymes to sing for the little folk of Radioland. Cousin Roma will sing some of her pretty songs. Uncle Len will give the birthday greetings and tell a little story.

FRIDAY.—Cousin Merle will sing and recite, also Cousin Irene and big Cousin Herbert. Brother Jack will give birthday greetings, and the Story Book Lady will be here, too.

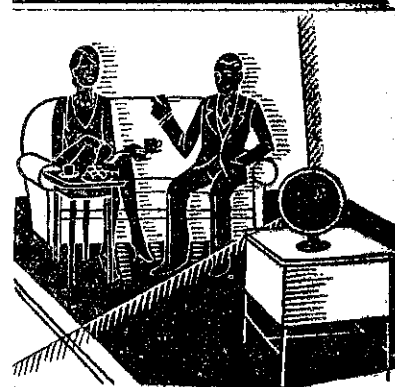
SATURDAY.—Uncle Toby, Aunt Gwen and Cousin Ailsa to-night.

SUNDAY.—The Song Service will be conducted by Uncle George, assisted by the Island Bay Baptist Sunday School Choir, under Mr. E. A. Eyres.

AT 3YA.

Our Alphabet.

- A is for Aunt Pat, whom we all love to hear.
B is for Brother Bill, so full of good cheer.
C is for Chuckle, who chuckles away,
D is for Dinner Session, that nightly holds sway.
E is for Everyone, who listens to us.
F is for Jack Frost, who with Sunny Jim,
is out for some mischief, so watch out for him.
G is the "Good-night" song Cousin Alice will sing.
H are the Headphones, on your ears they will cling.
I is Invisible, as we are to you,
J is for Uncle John, whose stories are new.
K are the Kiddies, with birthdays today.
L are the Listeners, who tune in for play.
M is for Mother Hubbard, who with Uncle Frank,
for their session on Wednesdays you have to thank.
N are the Nice Boys and Nice Little Girls,
who get their hair cut, or grow nice long curls.
O is the Old Clock, that broadcasts its chimes.
P is for Peterkin, who brings happy times.
Q are the Questions that everyone asks
Concerning the programmes and the Announcer's hard tasks.
R is for Radio, we love it—too true!
S is for Scatterjoy and Storyman, too.
T is for Tune-in, please do it aright.
U is for Us, we're on the air to-night.
(Continued on page 25.)



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Full Programmes for Next

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Sunday, September 29

1YA, AUCKLAND (900 KILOCYCLES).—SUNDAY, SEPTEMBER 29.

- 2.45: Relay from the Town Hall of 77th Anniversary of Beresford Street Congregational Church Sunday School.
- 6.0 : Children's session, conducted by Uncle Leo.
- 6.55: Relay from the Town Hall of the 77th Anniversary of Beresford Street Congregational Church Sunday School: Preacher, Rev. Lionel Fletcher. Organist, Mr. Arthur Cherry. Pianist, Miss Thelma Gordon. Conductor, Mr. William Gemmell.
- 8.30: approx.)—Studio concert:
 San Francisco Symphony Orchestra, "A Midsummer Night's Dream" (Mendelssohn) (H.M.V. D1826/7).
 Contralto—Miss Madge Clague, (a) "Sunday" (Brahms); (b) "Love Song" (Brahms).
 Pianoforte—Miss Hazell Rainey, "Rhapsodie" Op. 79 (Brahms).
 Recital—Mr. C. Paine, (a) "Play Up and Play the Game"; (b) "The Robber."
 'Cello—Lauri Kennedy, "Old Scotch Melody" (arrgd. Kennedy) (H.M.V. C1618).
 Contralto—Miss Madge Clague—"Serenade" (Schubert).
 Pianoforte—Miss Hazell Rainey, "Etude in F Sharp" (Arensky).
 Recital—Mr. C. Paine, "Young Fellow, My Lad."
 Band—Creators Band, (a) "Lead, Kindly Light," (Dykes); (b) "Onward Christian Soldiers" (Sullivan) (H.M.V. EB40).
- 9.30: Close down.

2YA, WELLINGTON (720 KILOCYCLES).—SUNDAY, SEPTEMBER 29.

- 3.0 : Afternoon session.
- 4.30: Close down.
- 6.0 : Children's song service, conducted by Uncle George.
- 7.0 : Relay of service from The Terrace Congregational Church—Preacher: Rev. C. Wickham; organist and choirmaster: Mr. H. E. Brusey.
- 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, SEPT. 29.

- 3.0 : Afternoon session—Selected studio items.
- 4.30: Close down.
- 5.30: Children's song service provided by the children of the Methodist Sunday Schools.
- 6.15: Hymn chimes from studio.
- 6.30: Relay of service from St. Alban's Methodist Church, Rugby Street.—Preacher: Rev. L. B. Neale. Organist: Miss Clarice Bell, L.A.B. Musical Director: Mr. W. S. Simpson.
- 7.45 (approx.): Studio Concert:
 New Light Symphony Orchestra, "Cavalleria Rusticana—Intermezzo" (Mascagni) (H.M.V. Record B2377).
 Mezzo-contralto solos—Miss Margaret Lorimer, (a) "A Roundel of Rest" (Cyril Scott); (b) "Only the River Running By" (Hopkins).
 Baritone—Mr. Theo. Turner, (a) "When Song is Sweet" (Sans-Souci); (b) "The Arrow and the Song" (Balfe).
 Violin, cello, flute, and harp—Florentine Quartet, "Torna a Surriento" (de Curtis) (Zonophone Record EE79).
 Mezzo-contralto solos—Miss Margaret Lorimer, (a) "Sanctuary" (Hewitt); (b) "I Shall Not Pass Again This Way" (Effinger).
 Baritone—Mr. Theo. Turner, "Thanks Be To God" (Dickson).
 Salon Orchestra, "Serenade" (Toselli) (H.M.V. Record EA358).
- 8.15 (approx.): Rebroadcast of 2YA, Wellington (relay from the Grand Opera House, Wellington, of concert by the Port Nicholson Silver Band under the conductorship of Mr. J. J. Drew).
- Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SUNDAY, SEPTEMBER 29.

- 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 St. Andrew Street Church of Christ. Preacher, Pastor W. D. More. Organist, Miss Stokes.
- 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 30

1YA, AUCKLAND (900 KILOCYCLES).—MONDAY, SEPTEMBER 30.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES).—MONDAY, SEPT. 30.

- 3.0 : Chimes of the G.P.O. clock.
- 3.1 : Selected studio items.
- 4.30 and 4.55: Sports results to hand.
- 5.0 : Children's session conducted by Uncle Jeff.
- 6.0 : Dinner session—"His Master's Voice" Hour:
 Overture—St. Louis Symphony Orchestra, "Fingal's Cave" (Mendelssohn) (D1299).
 'Cello—Lauri Kennedy, "Old Scotch Melody" (C1618).
- 6.12: Tacet.
- 6.15: Virtuoso String Quartet, (a) "Gavotte Mignon" (Thomas), (b) "Orientale" (Glazounov) (B2784).
 Organ—Edward O'Henry, (a) "Minuet in G" (Beethoven), (b) "Faust Waltz" (Gounod) (B2873).
- 6.27: Tacet.
- 6.30: Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier) (E522).
 Victor Olof Sextet, (a) "Cherry Ripe" (Scott), (b) "Minuet" (Boccherini) (B2697).
- 6.42: Tacet.
- 6.45: Waltzes—Chicago Symphony Orchestra, (a) "Roses of the South" (Strauss), (b) "Wine, Women, and Song" (Strauss) (D1452).
 New Light Symphony Orchestra, (a) "Spanish Dance" No. 1 (Moszkowski), (b) "Spanish Serenade" (Bizet) (B2584).
- 7.0 : News session, market reports and sports results.
- 7.40: Lecture—Mr. A. E. Wilson, of the Government Tourist Department, "Tourist and Holiday Resorts."
- 8.0 : Chimes of the G.P.O. clock.
- 8.1 : Relay from Hawera of concert arranged by the committee formed for the installation of receiving sets in the Hawera Hospital.
- Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—MONDAY, SEPTEMBER 30.

- 3.0 : Afternoon session—selected studio items.
- 4.25: Sports results to hand.
- 5.0 : Children's session, conducted by "Scatterjoy."
- 6.0 : Dinner session—"Columbia Hour":
 H.M. Grenadier Guards Band, "Merrie England" Selection (German) (02804).
 Bournemouth Municipal Orchestra, "Idylle Bretonne" (Gennin) (02809).
- 6.12: Tacet.
- 6.15: Waltz—Jacque Jacobs' Ensemble, "L'Estudiantina" (Waldteufel) (02560).
 Plaza Theatre Orchestra, (a) "A La Gavotte" (Finck); (b) "Minuet" (Finck) (01439).
 March—H.M. Grenadier Guards Band, "Old Panama" (Alford) (01535).
- 6.27: Tacet.
- 6.30: Ketelbey's Concert Orchestra, "The Sacret Hour" (Ketelbey) (01528).
 Sandlers' Orchestra, "Someday, Somewhere" (Rapee) (01521).
 Bournemouth Municipal Orchestra, "Fluttering Birds" (Gennin) (02809).
- 6.43: Tacet.
- 6.45: Quartet—Musical Art Quartet, (a) "Mighty Lak a Rose" (Nevin); (b) "To a Wild Rose" (McDowell) (01506).
 Sandlers' Orchestra, "Sonny Boy" (De Sylva) (01521).
 March—H.M. Grenadier Guards Band, "Strauss" (Mezzacapo) (4359).
- 6.57: Tacet.
- 7.0 : News session.
- 7.15: Talk—Mr. E. J. Bell, "Book Review."
- 8.0 : Chimes.
- Studio programme by the Woolston Band, under the conductorship of Mr. R. J. Estall, and assisting artists:
- 8.1 : March—Band, "Dunedin" (Alford).
 Entr'acte—Band, "Bells of St. Germain" (Menier).
- 8.10: Soprano—Miss Marjory Miller, (a) "The Joy Bird" (Barnes); (b) "I Wonder if Love is a Dream" (Foster).
- 8.16: Male quartets—De Reszke Singers, (a) "Absent" (Metcalf); (b) "My Lady Chloe" (Clough Leighton) (H.M.V. E432).
- 8.22: Baritone—Mr. John Worgan, (a) "My Dreams" (Tosti); (b) "The Bells of St. Mary" (Adams).
- 8.28: Fantasia—Band, "A Sleigh Ride in America" (Julien).

Week-all Stations-to Oct. 6

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- 8.36: Tenor—Mr. Arthur T. Couch, "Lolita" (Buzzi-Peccia).
 8.40: Recital—Mr. Harold Shaw, "Bendy's Sermon" (Conan Doyle).
 8.46: New Light Symphony Orchestra, "Spring Song" (Mendelssohn) (Zonophone EE111).
 8.49: Mezzo-soprano—Miss Lottie Colville, "Golden Dancing Days" (Coningsby Clarke).
 8.53: Cornet solo with band accompaniment—Bandsman R. Ohlson, "Il Bacio" (Arditi).
 8.58: Male trio—Californian Humming Birds, "I Just Roll Along" (Trent) (H.M.V. EA356).
 9.1: Weather report.
 9.3: Waltz—International Concert Orchestra, "The Blue Danube" (Strauss) (Zonophone EF21).
 9.11: Soprano—Miss Marjory Miller, "I Love You Truly" (Jacobs Bond).
 9.15: Selection—Band, "Oberon" (Weber).
 9.26: Baritone—Mr. John Worgan, "A Russian Love Song" (Lardelli).
 9.30: Wurlitzer organ—Leslie James, "O Sole Mio" (Di Capua) (H.M.V. B2692).
 9.33: Mezzo-soprano—Miss Lottie Colville, (a) "Tip Toe" (Carew); (b) "A Little Coon's Prayer" (Hope).
 9.38: Horn solo—Bandsman F. Turner, "But the Lord is Mindful of His Own" ("St. Paul") (Mendelssohn).
 9.43: Recital—Mr. Harold Shaw, "Our Folks" (Lynn).
 9.47: Tenor—Mr. Arthur T. Couch, (a) "Indian Serenade" (Voerji); (b) "At Dawning" (Cadman).
 9.53: Fantasia—Band, "A Day With Robin Hood" (Trussell).
 March—Band, "Namur" (Richards).
 10.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, SEPTEMBER 30.

- 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—Basle Symphony Orchestra, "Der Freischutz" (Weber) (Columbia 02875).
 8.18: Presentation of the song cycle "In a Persian Garden" (Lehmann) under the direction of Mr. T. J. Kirk-Burnand.
 8.33: Instrumental—4YA Broadcasting Trio, (a) "A La Bien Almee" (Schutt); (b) "Melodie" (Tschalkowsky).
 8.42: Tenor—Mr. J. Montague, "Duna" (McGill).
 8.46: Pianoforte—Mrs. Ernest Drake, "Gardens in the Rain" (Debussy).
 8.50: Soprano—Miss Freda Elmes, (a) "Snowdrops" (Craxton); (b) "Lovely Spring" (Coenen).
 8.56: 'Cello—Mr. P. J. Palmer, "Romance" (Saint-Saens).
 9.0: Weather report.
 9.3: Organ—Quentin McLean, "Merchant of Venice—Prelude" (Rosse) (Columbia 02796).
 9.7: Recital—Mr. Angus Corrie, "With the Poets" Series—"Robert Bridges—Poet Laureate."
 9.27: Instrumental—4YA Broadcasting Trio, (a) "Serenade" (Chaminade); (b) "Herodiade—Prelude" (Massenet); (c) "Prelude" (Rachmaninoff).
 9.38: Contralto—Miss Dorothy Skinner, (a) "Hedge Roses" (Schubert); (b) "My Peace Thou Art" (Schubert).
 9.44: Violin—Mr. Frank Parsons, "Am Meer" (Schubert).
 9.48: Baritone—Mr. L. M. Cachemaille, "Bois Epals" (Lully).
 9.52: Selection—Columbia Symphony Orchestra, "Faust" (Gounod) (Columbia 02708).
 10.0: Close down.

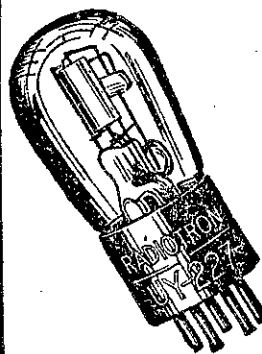
Tuesday, October 1

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, OCTOBER 1.

- 3.0: Afternoon session—Selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0: Children's session, conducted by Uncle Gorge.
 6.0: Dinner session—"Columbia Hour":
 Milan Symphony Orchestra, "Il Matrimonio Segreto" Overture (Cimarosa) (02877).
 String quartet—Venetian Players, "Allegro—Eine Kleine Nachtmusik" (Mozart) (Regal 20467).

- 6.13: Tacet.
 6.15: String quartet—Venetian Players, "Romanza—Eine Kleine Nachtmusik" (Mozart) (Regal 20467).
 British National Opera Company's Orchestra, "Intermezzo—Cavalleria Rusticana" (Mascagni) (5134).
 'Cello—W. H. Squire, "Barcarolle—Tales of Hoffmann" (Offenbach) (08606).
 6.27: Tacet.
 6.30: Plaza Theatre Orchestra, "The Belle of New York" (Kerker) (Regal 30018).
 Paul Whiteman's Orchestra, "The Merry Widow" (Waltz) (Lehar) (07502).
 6.43: Tacet.
 6.45: Instrumental octet—W. H. Squire's Celeste Octet, (a) "Introduction and Romance" ("Mignon") (Thomas); (b) "Poloanise" ("Mignon") (Thomas) (02749).
 New Queen's Hall Orchestra, "Ballet Music—Carmen" (Bizet) (L1209).
 6.57: Tacet.
 7.0: News and market reports.
 7.40: Talk—Madame Edith Baird, "Artistic Physical Development."
 8.0: Chimes.
 8.1: Overture—Studio Trio, (a) "Herodiade—Prelude, Act 4" (Massenet); (b) "Entr'acte Waltz" (Helmesbeyer).
 8.10: Vocal duet—Miss H. Rosieur and Mr. T. Moffitt, "Home to Our Mountains" ("Il Trovatore") (Verdi).
 8.14: Recital—Mr. T. Harris, "Old Man and Jim."
 8.19: Pianoforte—Miss Margot St. Lawrence Toner, "Prelude and Fugue in G Major" (Bach).
 8.25: Talk—Mr. A. B. Chappell, M.A., Topical Talk.
 8.40: Song cycle—Orpheus Quartet, "Wind Flowers" (Somervell).
 9.0: Weather report.
 9.2: 'Cello—Miss Mollie Wright, "Chanson Villageoise" (Lalo).
 9.6: Recitals—Mr. T. Harris, (a) "The Brave Old Duke of York"; (b) "The Geebung Polo Club."
 9.12: Instrumental selection—Studio Trio, "The Marriage Market" (Jacobi).
 9.20: Soprano—Miss Millicent O'Grady, "Caro Nome" ("Rigoletto") (Verdi).
 9.24: Pianoforte—Miss Margot St. Lawrence Toner, "First Sonata—Tragica" (MacDowell).
 9.30: Baritone—Mr. Len Barnes, "Vision Fugitive" ("Herodiade") (Massenet).
 9.35: Gramophone lecture-recital—Mr. Karl Atkinson, "The Weird in Music" (MS):
 Peter Biljos Balalaika Orchestra, Fantasy on "Song of India" (Rimsky-Korsakov) (Brunswick 77006).

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WELLINGTON.

- Vocal solo—Richard Bonelli, "Danny Deever" (Damrosch) (Brunswick 50122).
 Berlin State Opera Orchestra, "Valse Triste" (Sibelius) (Parlophone 4098).
 Vocal solo—Feodor Chaliapin, "Death of Don Quixote" (Massenet) (H.M.V. DB1096).
 Cleveland Symphony Orchestra, "Dance Macabre" (Saint-Saens) (Brunswick 50089).
 Symphony Orchestra, "Ride of the Valkyries" (Wagner) (H.M.V. D1088).
 10.10: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, OCTOBER 1.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 3.30: Lecturette—Mr. W. M. Jackson (Gladoli Specialist), "The Selection. Culture, and Care of Gladoli."
 4.30 and 4.50: Sports results to hand.
 5.0 : Children's session conducted by Uncle Jim.
 6.0 : Dinner session—"Columbia" Hour:
 Overture—Band of H.M. Grenadier Guards, "Poet and Peasant" (Suppe) (9087).
 Columbia Symphony Orchestra, "Badinage" (Herbert) (01092).
 Cherniavsky Trio, "Quartet in E—Minuet" (Roccherini—Herman) (0845).
 6.14: Tacet.
 6.15: J. H. Squire's Celeste Octet, "Classica" Selection (arrgd. Ewing) (02713).
 Xylo-Rimba Orchestra, "Sweet Hawaiian Dreams" Waltz (Coleman) (0845).
 6.29: Tacet.
 6.30: Columbia Symphony Orchestra, "Al Fresco" (Herbert) (01092).
 Violin—Sascha Jacobsen, "Pale Moon" (Logan-Kreisler) (01146).
 Wurlitzer organ—Terence Casey, "Bird Songs at Eventide" (Coates) (01501).
 Jean Lensen's Orchestra, "The Clock is Playing" (Blaauw) (01102).
 6.42: Tacet.
 6.45: Columbia Musical Art Quartet, "Old Folks at Home" (Foster) (01160).
 Xylo-Rimba Orchestra, "Sunny Smiles of Hawaii" (Palalaiki) (3921).
 Columbia Symphony Orchestra, (a) "Spring Song" (Mendelssohn), (b) "Idillio" (Lack) (01076).
 6.57: Tacet.
 7.0 : News session, market reports and sports results.
 7.40: Lecturette, Representative of the Agricultural Department, "For the Man on the Land."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "St. Hubertus" (Fueck).
 8.9 : Soprano—Miss Myra Sawyer, "The Pipes of Pan" ("The Arcadians") (Monckton).
 8.13: Bass—Mr. Wm. Boardman, "A Jovial Monk am I" ("La Poupée" (Audran).
 8.17: Instrumental—Orchestra, "A Doll's House" (Englemann).
 8.25: Humour—Miss Areta Wharton, "Mrs. Arris at the Farm" (Poultney).
 8.31: Jazz vocal and pianoforte numbers—Messrs. Edward Silver and Claude Hoare in the latest popular songs and jazz piano solos.
 8.38: Suite—Orchestra, "Jevington Suite" (Loughborough).
 8.45: Soprano—Miss Myra Sawyer, "I Got a Robe" (arrgd. Burleigh).
 8.49: Bass—Mr. Wm. Boardman, "The Smuggler's Song" (Mulliner).
 8.53: Piccolo solo with orchestral accompaniment—Soloist, Mr. V. Brown, "Tarantella" (Rimmer).
 Trombone and cornet duet—Messrs. Oakes and Sneddon, "Down the Vale" (Moir).
 9.1 : Weather report.
 9.3 : Vocal duet—Miss Myra Sawyer and Mr. Wm. Boardman, "The Syren and the Friar" (Emanuel).
 9.7 : Instrumental—Orchestra request number.
 9.12: Humour—Miss Areta Wharton, "The Rehearsal" (Wiggins).
 9.18: Jazz vocal and pianoforte numbers—Messrs. Edward Silver and Claude Hoare in further popular songs and jazz pianoforte numbers.
 9.25: Instrumental—Orchestra, "Japanese Carnival" (De Basque).
 9.30: "Columbia" Dance Programme:
 One-step—Debroy Somers Band, "Casablanca" (Hargreaves) (01470).
 One-step—Debroy Somers Band, "Shinaniki Da" (Carlton) (01523).
 Foxtrot—Debroy Somers Band, "Sarita" (Glick) (01470).
 Foxtrot—Harry Reser's Syncopators, "I'm Wild About Horns on Automobiles" (Gaskill) (01543).
 9.42: Tenor—Ernest McKinley, "Marui Girl" (Libornio) (01562).
 Foxtrot—Ipana Troubadours, "Old-Fashioned Lady" (Silver) (01561).
 Foxtrot—Piccadilly Players, "My Mother's Eyes" (Baer) (01646).
 Foxtrot—Paul Specht's Orchestra, "The Things that were Made for Love" (Tobias) (01561).
 Waltz—The Cavaliers, "My Dear" (Kahn) (01046).
 Waltz—The Columbians, "Christina" (Gottler) (01585).
 10.0 : Humour—Will Hayes and his Scholars, "The Fourth Form at St. Michael's" (Hayes) (02852).
 Foxtrot—Geoffrey Helden's Kettner Five, "Happy Days and Lonely Nights" (Rose) (Regal G20476).
 Foxtrot—Debroy Somers Band, "The Egg Song" (Salisbury) (01523).
 Waltz—Andy Sannella's All-Star Trio, "Evangeline" (Jolson) (01630).
 Waltz—The Cavaliers, "Lady Divine" (Shilkret) (01543).

- 10.20: Wurlitzer organ—Terence Casey, "Annie Laurie" (with variations) (arrgd. Casey) (02842).
 Foxtrot—Ben Selvin's Orchestra, "My Sin" (de Sylva) (01525).
 Foxtrot—Guy Lombardo's Royal Canadians, "I Love to Bumpity Bump on a Bumpy Road with You" (Sherman) (01547).
 Foxtrot—Ben Selvin's Orchestra, "Honey" (Simms) (01525).
 Waltz—The Columbians, "Pagan Love Song" (Brown) (01585).
 Waltz—The Cavaliers, "By-and-By, Sweetheart" (Ford) (01546).
 10.39: Vocal duet—Layton and Johnstone, "Broadway Melody" (Brown) (01527).
 Foxtrot—Al Atarita and Piccadilly Band, "A Room with a View" (Coward) (01420).
 Foxtrot—The Harmonians, "Little Pal" (de Sylva) (G20511).
 Foxtrot—Al Starita and Piccadilly Band, "Try to Learn to Love" (Coward) (01420).
 Waltz—Bar Harbour Society Orchestra, "Celia" (Whiting) (G20511).
 Waltz—The Cavaliers, "Underneath the Russian Moon" (Gusman) (01546).
 11.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, OCTOBER 1.

- 8.0 : Relay from His Majesty's Theatre, Timaru, of concert presented by the Timaru Orpheus Society, under the conductorship of Mr. Alfred W. Vine, F.R.C.O., A.R.C.M., L.R.A.M.
 Close down

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, OCTOBER 1.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25: Sports results to hand.
 6.0 : Children's session, conducted by Big Brother Bill.
 7.0 : News session.
 7.30: Lecturette by Mr. Lloyd Ross M.A., LL.B., (under the auspices of the Workers' Educational Association).
 8.0 : Town Hall chimes.
 Studio concert by the St. Kilda Band, under the conductorship of Mr. James Dixon, and assisting artists.
 8.1 : March—Band, "Love and Honour" (Hume).
 8.7 : Soprano—Miss Louise de Reya, (a) "Happy Summer Song" (Carne); (b) "A Kiss, a Caress, and Then Adieu" (Sharp).
 8.12: Hawaiian—Kolomoku Honoluluans, "Aloha-Oe" (Lilukalani) (Zonophone Record EF23).
 8.16: Scottish song—Mr. Buster Brown, "Doughie the Baker" (Lauder).
 8.21: Waltz—Band, "Queen of Rubies" (Bourne).
 8.31: Dialogue—John Henry and Blossom, "Joe Murgatroyd's Letter" (H.M.V. Record B2930).
 8.39: Contralto—Miss Dorothy Allan, "Have You any News of My Boy Jack?" (German).
 8.43: Cornet—Band, "When You Come Home" (Squire).
 8.50: Chorus—Male chorus, "War Songs" (H.M.V. Record EB25).
 8.54: March—Band, "The Crusader" (Anderson).
 8.58: Weather report.
 9.0 : Selection—Savoy Orpheans, "Lido Lady" (Rodgers) (H.M.V. Record C1310).
 9.8 : Soprano—Miss Louise de Reya, "Il Bacio" (Arditi).
 9.12: Selection—Band, "Minstrel Melodies" (Bourne).
 9.24: Scottish songs—Mr. Buster Brown, (a) "I Think I'll Get Wed in the Summertime" (Lauder); (b) "The Wedding of Lauchie McGraw" (Lauder).
 9.32: Hawaiian—Kolomoku's Honoluluans, "Three O'Clock in the Morning" (Robledo) (Zonophone Record EF23).
 9.36: Contralto—Miss Dorothy Allan, (a) "The Shepherd" (Carey); (b) "Ring, Bells, Ring" (Day).
 9.42: Overture—Band, "Golden Sceptre" (Greenwood).
 9.52: Chorus—Mixed Chorus, "Sea Songs" (H.M.V. Record EB25).
 9.56: March—Band, "Paragon" (Southwell).
 10.2 : Close down.

Wednesday, October 2

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, OCTOBER 2.

- 3.0 : Afternoon session—Selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0 : Children's session, conducted by Uncle Tom.
 6.0 : Dinner session—"His Master's Voice Hour":
 Philadelphia Symphony Orchestra, "Waltz of the Flowers" (Tschalkiwsky) (H.M.V. D1216).
 Violin and guitar—Giuletta Morini, "Could I" (Poggio) (Zonophone EB134).
 6.12: Tacet.
 6.15: Suite—Coldstream Guards Band, "Petite Suite de Concert" (Coleridge-Taylor) (C1011).
 Whistler and orchestra—Charles Kellog and Victor Orchestra, "Narcissus" (Nevill) (EA107).

- 6.27: Tacet.
 6.30: International Concert Orchestra, (a) "Lazy Pete" (Jersel); (b) "Parade of the Wooden Soldiers" (Werner) (Zonophone 5221).
 Violin and guitar—Giulietta Morini, "Les Millions D'Arlequin" (Drigo) (Zonophone EE134).
 6.42: Tacet.
 6.45: Vocal quartet—The Revellers, "Comin' Home" (B2972).
 Organ—Edwin Lemare, "Chat de Bonheur" (Lemare) (Zonophone EE93).
 Dance suite—Band of H.M. Coldstream Guards, "Henry VIII. Dances" (German): (1) Shepherds' Dance; (2) Torch Dance (B116).
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Madame Mabel Milne, "Health and Diet."
 8.0: Chimes.
 8.1: Suite—Plaza Theatre Orchestra, "Gipsy Suite" (German): 1. Valse—Lonely Life; 2. Allegro—The Dance (Columbia 02537).
 8.9: Presentation of the Three-act Comedy, "Belinda" (A. A. Milne), under the direction of Mr. J. M. Clark.
 Act 1—"Belinda" (Milne).
 Entr'acte—Plaza Theatre Orchestra, "Gipsy Suite" (German): 1. Minuetto—Love Duet; 2. Tarantella—The Revel (Columbia Record 02538).
 2—"Belinda" (Milne).
 Entr'acte—Royal Guards Band, "Merry Widow" waltz (Lehar) (Columbia Record 117).
 Act 3—"Belinda" (Milne).
 Columbia Symphony Orchestra, "Bridal Procession" (Grieg) (Columbia Record 02622).
 10.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, OCTOBER 2.

- 3.0: Relay description of football match from Athletic Park—All Blacks versus New Zealand Maoris.
 Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, OCT. 2.

- 3.0: Rebroadcast of 2YA—Description of All Blacks v. Maoris Rugby Match from Athletic Park.
 5.0: Children's session conducted by Mother Hubbard and Uncle Frank...
 6.0: Dinner session—"Columbia" Hour:
 Orchestra Symphonique de Paris, "L'Arlesienne Suite" (Bizet): (1) Prelude; (2) Entr'acte—Pastorale, L'Etang de Vaccares; (3) Chœurs—Suisant la Pastorale (01324-5).
 6.12: Tacet.
 6.15: Selection—Columbia Symphony Orchestra, "Faust" (Gounod) (02708).
 Violin—Toscha Seidel, "Chanson Arabe" (Rimsky-Korsakov) (09505).
 6.27: Tacet.
 6.30: Orchestra Symphonique de Paris, "L'Arlesienne—Farandole" (Bizet): (1) La Cuisine de Castelet; (2) Minuetto; (3) Le Carillon; (4) Adagietto (01326-7).
 6.42: Tacet.
 6.45: Orchestra Symphonique de Paris, "L'Arlesienne—Farandole" (Bizet) (01328).
 Rande Garde Republicaine de France, "Carmen" Entr'acte (Bizet) (02747).
 6.56: Tacet.
 7.0: News session.
 7.30: Addington stock market reports.
 8.0: Chimes.
 Special studio programme featuring the Christchurch Orchestral Society, under the conductorship of Professor Orddone Savini.
 8.1: Overture—Christchurch Orchestral Society, assisted by the Woolston Band under the conductorship of Mr. R. J. Estall: "1812" (Tschai-kowsky).
 Symphony—Orchestra, "Symphony in D—First Movement" (Cesar Franck).
 Selection—Orchestra, "Dance of the Hours" ("La Gioconda" (Ponchi-elli).
 Violin solo with orchestral accompaniment—Mr. T. B. Riordan and Orchestra, "Reverie" (Bazzani).
 Instrumental—Orchestra, "Whispering of the Flowers" (Von Blon).
 Suite—Orchestra, "Peer Gynt" Suite No. 1 (Grieg).
 March—Orchestra, "March of the Heroes" (R. A. Horne).
 Vocal solo with orchestral accompaniment—"I Pagliacci—Prologue" (Leoncavallo).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, OCTOBER 2.

- 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: Special entertainment provided by the "Four Aces" Concert Party.

- 9.30: "His Master's Voice Dance Programme:
 Foxtrot—Nat Shilkret's Orchestra, "I'd Rather Be Blue" (Rose) (EA483).
 Foxtrot—Waring's Pennsylvanians, "The Song I Love" (Conrad) (EA484).
 Foxtrot—Nat Shilkret's Orchestra, "My Man" (EA483).
 Foxtrot—Waring's Pennsylvanians, "My Mother's Eyes" (Gilbert) (EA530).
 9.42: Vocal—The Happiness Boys, "Where Did You Get that Name?" (Klein) (EA484).
 Foxtrot—Jean Goldkettes' Orchestra, "That's What Put the Sweet in Home, Sweet Home" (Newman) (EA487).
 Waltz—The Troubadours, "Carolina Moon" (Burke) (EA494).
 Waltz—Jean Goldkettes' Orchestra, "Can You Blame Me?" (Shay) (EA519).
 9.54: Wuritzer organ—Jesse Crawford, "Where the Shy Little Violets Grow" (Warren) (EA521).
 Foxtrot—Geo. Olsen's Music, "When the World is at Rest" (Fain) (EA494).
 Foxtrot—Jean Goldkettes' Orchestra, "Sweethearts on Parade" (Lombardy) (EA487).
 Foxtrot—Hamp's Kentucky Serenaders, "I Fell Head Over Heels in Love" (Thayer) (EA492).
 Foxtrot—Geo. Olsen's Music, "Come West, Little Girl, Come West" (Kahn) (EA537).
 10.9: Tenor—Morton Downey, "Little Irish Rose" (Zamecnik) (EA505).
 Foxtrot—Ben Pollack's Orchestra, "Sally of My Dreams" (Kernell) (EA530).
 Foxtrot—Geo. Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn) (EA537).
 Waltz—Arcadians' Dance Orchestra, "Anita" (Clair) (EA154).
 Waltzes—Hilo Hawaiian Orchestra, (a) "Sweet Hawaiian Dream" (Green); (b) "Sleepy Honolulu Town" (Warren) (Zonophone EE156).
 10.27: Accordion solo—Pietro, "Tres Jolie" Waltz (Waldteufel); (b) "La Petite Tonkinoise" One-step (Christine) (Zonophone EE157).
 Foxtrot—Arcadians' Dance Band, "Pokee-Okee-Oh" (Flynn) (Zonophone EE155).
 Foxtrot—Rhythmic Eight, "Don't Be Like That" (Vinkord) (Zonophone EE154).
 Foxtrot—Arcadians' Dance Band, "I Must Be Dreaming" (Sherman) (Zonophone 5308).
 10.42: Tenor—John McCormack, "Jeannine, I Dream of Lilac Time" (Henderson) (DA1027).
 Foxtrot—Geo. Olsen's Music, "I Faw Down an' go Boom" (Stevens) (EA490).
 Foxtrot—Ambrose's Orchestra, "Sweet Sue, Just You" (Young) (EA492).
 Foxtrot—Nat Shilkret's Orchestra, "Glad Rag Doll" (Ager) (EA501).
 Waltz—Troubadours, "Another Kiss" (Schertzing) (EA489).
 11.0: Close down.

Thursday, October 3

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, OCTOBER 3.

- 3.0: Afternoon session—Selected items by Messrs. Lewis Eady Ltd.
 4.30: Close down.
 5.0: Children's session, conducted by Peter Pan.
 6.0: Dinner session—"Brunswick Hour":
 Brunswick Hour Orchestra, "Tea for Two" (2881).
 Pianoforte—Zez Confrey, "You Tell 'Em Ivorie's" (Confrey) (2112).
 New York String Quartet, "Spanish Dance" (Albeniz) (3211).
 Brunswick Hour Orchestra, "Listening" (Irving-Berlin) (2881).
 6.13: Tacet.
 6.15: New York String Quartet, "Minuet" (Boccherini) (3211).
 Paul Ash and his Granada Orchestra, "Roses of Picardy" (Haydn Wood) (2732).
 Pianoforte—Zez Confrey, "Poor Buttermilk" (Confrey) (2112).
 Paul Ash and his Granada Orchestra, "La Paloma" (Yrdier) (3211).
 6.28: Tacet.
 6.30: Carl Fenton's Orchestra, "Medley of Old Fashioned Waltzes" (20001).
 Strand Male Quartet, "Sally in Our Alley" (2166).
 6.42: Tacet.
 6.45: Hawaiian—Hanapi and Kapeipua, (a) "Hanalei Bay" (Bories); (b) "Song of Hawaii" (Alohine) (3662).
 Banjo—Harry Reser, "Collette" (3485).
 Brunswick Military Band, "Up the Street" March (2029).
 6.57: 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 Man of Science Sees It" (W.E.A. Series).
 8.0: Chimes.
 8.1: Selection—Studio Orchestra, "The Boy" (Monckton-Talbot).
 8.11: Ladies' Trio—Celeste Trio, (a) "In Old Madrid" (Trottere); (b) "Contraalto solo, "Alla Stella Confidente" (Robaudi).

- 8.19: Instrumental—Studio Orchestra, (a) "Second Minuet" (Besley); (b) "Serenata" (Braga); (c) "Don Juan's Serenade" (Tschalkowsky).
 9.6: Vocal trio—Celeste Trio, (a) "O, Can Ye Sew Cushions?" (Old Scottish); (b) "Grow, Little Mushroom, Grow" (Lawrence).
 9.13: Suite—Studio Orchestra, "Roma" (Bizet): 1. Andante Tranquillo; 2. Allegro Agitato; 3. Allegretto Vivace.
 9.23: Vocal trio—Celeste Trio, (a) "The Lonely Rose" (Hermes); (b) "Goodnight, Farewell" (Garrett).
 9.30: "Columbia" Dance Programme:
 Foxtrot—Denza Dance Band, "Varsity Drag" (De Sylva) (01151).
 Foxtrot—Geoffrey Gelder's Kettner Five, "I Kiss Your Hand, Madame" (Erwin) (Regal G20458).
 Foxtrot—Denza Dance Band, "Dance of the Blue Danube" (Fisher) (01151).
 Foxtrot—Stellar Dance Band, "The Song I Love" (De Sylva) (Regal G20451).
 9.42: Vocal duet—Frank Harris and Vaughan De Leath, "Pat's Night Out" (01357).
 One-step—Geoffrey Gelder's Kettner Five, "Casablanca" (Regal Record G20458).
 One-step—"Bobadilla" (3971).
 Waltz—Ben Selvin's Orchestra, "I Loved You Then As I Love You Now" (Axt) (01401).
 Waltz—Percival Mackey's Band, "Without You" (De Sylva) (3971).
 9.57: Hawaiian—Royal Hawaiian Glee Club, "Lilui E" (Kailla) (01282).
 Foxtrot—Al Starita and Piccadilly Band, "Dance, Little Lady" (Coward), (01421).
 Foxtrot—Stellar Dance Band, "In the Shadows" (Finck) (Regal Record G20451).
 Foxtrot—Ben Selvin's Orchestra, "If You Want the Rainbow" (Rose) (01401).
 10.9: Soprano—Phyllis Dare, "Atlantic Blues" (Hart) (01402).
 Foxtrot—Al Starita and Piccadilly Band, "I'm Mad About You" (01421).
 Foxtrot—Will Prior's Band, "Old-Fashioned Rose" (Hood) (01518).
 Foxtrot—Hal Swain's Cafe Royal Band, "I'm on the Crest of a Wave" (Regal Record G20459).
 Waltz—Paul Whiteman's Orchestra, "My Angeline" (Wayne) (07020).
 Waltz—Paul Whiteman's Orchestra, "Coquette" (Berlin) (07021).
 10.27: Baritone—Art Leonard, "Mississippi Moon" (Terese) (Regal Record G20517).
 Foxtrot—Fred Rich's Orchestra, "Wedding Bells" (Kahal) (01487).
 Foxtrot—Hal Swain's Cafe Royal Band, "What D'ya Say" (De Sylva) (Regal Record G20459).
 Foxtrot—Fred Rich's Orchestra, "Let's Sit and Talk About You" (Fields) (01487).
 Foxtrot—Will Prior's Band, "I Faw Down and Go Boom!" (Brockman) (01518).
 10.42: Hawaiian—Royal Hawaiian Glee Club, "Nani Kauai" (Alohakea) (01282).
 Foxtrot—Ben Selvin's Orchestra, "He, She and Me" (Lombardo) (01489).
 Foxtrot—Ben Selvin's Orchestra, "Who" (Davison) (01489).
 Yale Blues—Will Quintrell's Tivoliens, "Shine On, Harvest Moon" (01124).
 Waltz—Paul Whiteman's Orchestra, "Blue Hawaii" (Baer) (07021).
 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, OCTOBER 3.

- 3.0: Chimes of the G.P.O. clock
 3.1: Afternoon session—Selected H.M.V. and Brunswick gramophone records and Mastertouch Player rolls, arranged by Messrs. Hamilton Nimmo and Sons, Ltd.
 5.0: Children's session, conducted by Uncle Len.
 6.0: Dinner session—"Parlophone Hour":
 Grand Symphony Orchestra, "Cavalleria Rusticana—Intermezzo" (Maschagni) (A4083).
 Dajos Bela Orchestra, (a) "Moonlight on the Alster" (Fetras); (b) "Schatz Waltz" ("Gipsy Baron") (Strauss) (A4110).
 6.12: Tacet.
 6.15: Dajos Bela Orchestra, "Electric Girl" (Holmes) (A2009).
 Organ—Sigmund Krumgold, "Indian Love Call" ("Rose Marie") (Friml) (A2339).
 Orchestra Mascotte with Dajos Bela, "The Flower's Dream" (Translatur) (A2559).
 Dajos Bela Orchestra, "Eldgaffeln" (Landen) (A4009).
 6.29: Tacet.
 6.30: Edith Lorand Orchestra, "The Vagabond King" Selection (Friml) (10601).
 Orchestra Mascotte with Dajos Bela, "Whispering of the Flowers" (Von Blon) (A2559).
 Organ—Sigmund Krumgold, "Gipsy Love Song" (Herbert) (A2339).
 6.44: Tacet.
 6.45: Dajos Bela Orchestra, "The Grenadiers" Waltz (Waldteufel) (A4081).
 Piano and orchestra—Raie da Costa Ensemble, "Funny Face" Selection (Gershwin) (A4074).
 Waltz—Orchestra Mascotte, "Sirene Magic" (Waldteufel) (A2650).
 7.0: News session, market reports and sports results.

- 7.40: Lecturette—Mr. A. J. Nicholls, Representative Hutt Valley Horticultural Society, "Gardening."
 8.0: Chimes of the G.P.O. clock.
 Studio concert by the Wellington Municipal Tramways Band, under the conductorship of Mr. E. Franklin, and assisting artists:
 8.1: Overture—Band, "Lastspiel" (Keler Bela).
 8.9: Tenor—Mr. Chas. Williams, "The One of All the World" (Lohr).
 8.13: Vocal quartet—Lyric Quartet, "Hey, Diddle, Diddle" (Hill).
 8.17: Symphony—Band, "Unfinished Symphony" (Schubert).
 8.29: Bass—Mr. W. Biney Brown, (a) "Sea Fever" (Coningsby Clarke); (b) "The Skipper" (Jude).
 8.36: Humour—Mr. Hedley Aitken, "The Taxi Driver's Story" (Jordan).
 8.43: Hilo Hawaiian Orchestra, (a) "Sweet Hawaiian Dream Girl" (Williams); (b) "Sleepy Honolulu Town" (Florito) (Zonophone EE156).
 8.49: Mezzo-soprano—Mrs. Alma Millward, "The Joy Bird" (Barnes).
 8.53: Waltz—Band, "Donau Wellen" (Ivanovici).
 9.0: Weather report.
 9.2: Waltz—Jacque Jacobs Ensemble, "Over the Waves" (Rosas) (Columbia 02556).
 9.6: Baritone—Mr. Will Goudie, (a) "Fluerette" (McGeogh); (b) "Keep on Hopin'" (Maxwell).
 9.13: Fantasia—Band, "The Old Rustic Bridge" (Walton).
 9.21: Mezzo-soprano, Mrs. Alma Millward, (a) "Rose in the Bud" (Forster); (b) "You in a Gondola" (Coningsby Clarke).
 9.27: Humour—Mr. Hedley Aitken, "I Understood" (Anon.).
 9.34: Dances—Band, "Hungarian Dances," Nos. 1 and 2 (Brams).
 9.41: Vocal duet—Messrs. Will Goudie and W. Binet Brown, "Army and Navy" (Cooke).
 9.45: Waltz—Jacque Jacobs Ensemble, "Vienna Life" (Strauss) (02556).
 9.49: Sea shanties—Lyric Quartet, (a) "Shenandoah" (arrgd. Terry); (b) "Rio Grande" (arrgd. Sharpe).
 9.55: Trombone solo—Bandsman Tallantyne, "The Joy Wheel" (Sutton).
 March—Band, "Twentieth Century" (Ord Hume).
 10.6: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, OCTOBER 3.

- 3.0: Afternoon session—Selected studio items.
 4.25: Sports results to hand.
 5.0: Children's session conducted by Uncle John.
 6.0: Dinner session—"His Majesty's Voice" Hour:
 Overture—Berlin State Opera Orchestra, "The Magic Flute" (Mozart) (E464).
 Royal Opera Orchestra, "Hungarian Dance No. 5" (Brahms) (C1415).
 Grand organ—Arthur Meale, "Simple Aven" (Thome) (Zonophone 5162).
 6.13: Tacet.
 6.15: New Light Symphony Orchestra, "Peer Gynt" Suite No. 2 (Grieg):
 (1) Ingrid's Lament; (2) Arabian Dance (C1571).
 Violin—Erica Morini, "Romanza Andaluza" (Sarasate) (D1445).
 6.27: Tacet.
 6.30: New Light Symphony Orchestra, "Peer Gynt" Suite No. 2: (1) Return of Peer Gynt; (2) Solveig's Song (C1572).
 Violin—Erica Morini, "Introduction and Tarantelle" (Sarasate) (D1445).
 6.42: Tacet.
 6.45: Marek Weber's Orchestra, "Vienna by Night" (Komzak) (C1507).
 Cello—Lauri Kennedy, "Hungarian Rhapsody" (Popper) (C1595).
 6.57: Tacet.
 7.0: News session.
 7.30: Lecturette arranged by 3YA Primary Productions Committee, "The Aims and Objects of Horticultural Societies," by Mr. O. W. B. Anderson (Canterbury Horticultural Society).
 8.0: Chimes.
 8.1: Overture—Milan Symphony Orchestra, "Semiramide" (Rossini) (Columbia 02840).
 8.13: Contralto—Mrs. Ross Brodie, "Softly Awakes My Heart" ("Samson et Delilah") (Saint-Saens).
 8.17: Cello—Mr. Harold Beck, "Orientale" (Cui).
 8.21: Tenor—Mr. W. J. Trewern, "Thou Art My Life" (Mascheroni).
 8.25: Regal Orchestra, "Valse des Fleurs" ("Nutcracker Suite") (Tschalkowsky) (Regal G20369).
 8.31: Soprano—Mrs. A. Edwards, "The Grey Land Breaks" ("King Olaf") (Elgar).
 8.35: Chorus and orchestra—La Scala Chorus, "Otello—La Tempesta" (Verdi) (Columbia 02723).
 8.38: Instrumental—Studio Trio, "Elegia Adagio" (Arensky) and "Alla Non Troppo" (Arensky).
 8.48: Recital—Mr. Culford Bell, "A Scene from Vanity Fair" (Thackeray).
 8.53: Bournemouth Municipal Orchestra, "Valse Triste" (Sibelius) (Regal G20462).
 8.56: Baritone—Mr. A. Gladstone Brown, (a) "A Soft Day" (Stanford); (b) "In Summertime on Bredon" (Peel).
 9.3: Weather report.
 9.5: Contralto—Mrs. Ross Brodie, (a) "The Tryst" (Sibelius); (b) "Hark, What Shall I Tell Thee?" (Haydn).
 9.11: Cello—Mr. Harold Beck, "Mazurka" (Popper).
 9.15: Tenor—Mr. W. J. Trewern, (a) "Serenata" (Toselli); (b) "Heaven and Ocean" ("La Gioconda") (Ponchielli).
 9.27: Bournemouth Municipal Orchestra, "Praeludium" (Jarnefeldt) (Regal G20462).

- 9.30: Soprano—Mrs. A. Edwards, (a) "The Fisher's Widow" (Clare Edwards), (b) "I Love the Rose" ("King Renee's Daughter") (Henry Smart).
 9.37: Instrumental—Studio Trio, (a) "Minuet in G" (Beethoven); (b) "Three-Fours Valse," Op. 11, No. 6 (Coleridge-Taylor).
 9.47: Recital—Mr. Culford Bell, "The Ballad of the Bolivar" (Kipling).
 9.52: Baritone—Mr. Al Gladstone Brown, "Myself When Young" ("In a Persian Garden") (Lehmann).
 9.56: Chorus with orchestra—La Scala Chorus, "Otello—Fuoco di Giola" (Verdi) (Columbia 02723).
 10.0 : Close down.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, OCTOBER 3.
SILENT DAY.

Friday, October 4

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, OCTOBER 4.

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0 : Children's session, conducted by Nod and Aunt Jean.
 6.0 : Dinner session—"Columbia Hour":
 British Broadcasting Company's Wireless Orchestra, "La Boutique Fantasque" selection (Respighi, arrgd. Howard Carr) (Regal G30018).
 Violin—Efrem Zimbalist, "The Zephyr" (Hubay) (03623).
 6.13: Tacet.
 6.15: Pianoforte—Percy Grainger, "Gum-Suckers' March" (Grainger) (04119).
 Madrid Symphony Orchestra, "La Procession Del Rocio" (Turina) (02880).
 6.27: Tacet.
 6.30: Violin—Efrem Zimbalist, "Tallahassee" (Scott) (03623).
 New Queen's Hall Orchestra, "Chant Sans Paroles" (Tschaiakowsky) (L1766).
 Pianoforte—Myra Hess, "Rosamunde—Ballet Music" (Schubert) (04172).
 6.42: Tacet.
 6.45: London Symphony Orchestra, "Prince Igor Dance No. 17" (Borodine) (L1811-2).
 6.57: Tacet.
 7.0 : News and market reports.
 7.40: Talk—Mr. W. G. E. Wheeler, "Esperanto."
 8.0 : Chimes.
 8.1 : Relay of concert from Messrs. Lewis Eady's Hall.
 8.30: St. Louis Symphony Orchestra, "Fingal's Cave" (Overture) (Mendelssohn).
 8.38: Soprano—Miss Cecilia Duncan, (a) "A Request" (Woodforde-Finden); (b) "At Dawning" (Cadman).
 8.45: Instrumental—Studio Trio, "Trio in G Major—First Movement" (Mozart).
 9.2 : Weather report.
 9.4 : Violin—Miss I. Bosworth, "Minuet" (Mozart).
 9.8 : One-act play presented under the direction of Mrs. Zoe Bartley-Baxter, "The House With the Thirsty Windows" (Tarkington).
 9.48: Instrumental—Studio Trio, "Trio in F Major" (Reinecke).
 9.56: Soprano—Miss C. Duncan, "Our Hands Have Met" (Wallace).
 9.59: Instrumental—San Francisco Symphony Orchestra, "Midsummer Night's Dream—Scherzo" (Mendelssohn) (H.M.V. Record D1627).
 10.3 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, OCTOBER 4.

- 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—Berlin State Opera Orchestra, "Martha" (Flotow) (C1506).
 Royal Opera Orchestra, "Carmen" ballet music (Bizet) (C1424).
 6.12: Tacet.
 6.15: Royal Opera Orchestra, "Faust—Ballet Music" (Gounod) (C1462).
 Selection—National Symphony Orchestra, "Aida" (Verdi) (Zonophone Record A340).
 6.27: Tacet.
 6.30: Royal Opera Orchestra, "Faust—Ballet Music" (Gounod) (C1463).
 Royal Opera Orchestra, "Carmen—Entr'acte" (Bizet) (C1424).
 6.42: Tacet.
 6.45: Marek Weber's Orchestra, "La Tosca" Potpourri (Puccini) (C1413).
 National Symphony Orchestra, "Bohemian Girl" (Balfe) (Zonophone Record A340).
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Mr. A. Varney (Honorary Secretary, Wellington Cricket Association)—"Cricket."
 8.0 : Chimes of the G.P.O. clock.
 Programme featuring vocal gems from "The Belle of New York" (Kerker), by the Etude Quartet:

- 8.1 : Overture—Orchestra, "Belle of New York" (Kerker).
 8.11: Contralto and chorus—Mrs. Ray Kemp and Etude Quartet, "When I Was Born the Stars Stood Still" (Kerker).
 8.15: Vocal duet and chorus—Messrs. Will Hancock and Ray Kemp, "Little Sister Kissie" (Kerker).
 8.19: Selection—Orchestra, "Lilac Time" Part 1 (Clutsam).
 8.27: Entertainers—Mr. and Mrs. Albert Russell, (a) "My Word You Do Look Queer" (David); (b) "When at Morn" (Schumann); (c) "Leander" ("Katja") (Gilbert).
 8.34: Contralto and chorus—Mrs. Ray Kemp and Etude Quartet, "O Teach Me How to Kiss" (Kerker).
 8.38: Tenor and chorus—Mr. Will Hancock and Etude Quartet, "Wine, Women and Song" (Kerker).
 8.42: Mandolin Band—Circolo Mandolinistico, (a) "Serenade" ("Les Millions d'Arlequin"), (Drigo); (b) "Carmen—Intermezzo" (Bizet) (Columbia Record 0989).
 8.48: Soprano—Miss Gretta Stark, "La Belle Parisienne" (Kerker).
 8.52: Selection—Orchestra, "America" (Winterbottom).
 9.0 : Weather report.
 9.3 : Vocal quartet—Etude Quartet, "Pretty China Girl" (Kerker).
 9.7 : Soprano and chorus—Miss Gretta Stark and Etude Quartet, "They All Follow Me" (Kerker).
 9.11: Instrumental—Orchestra, "Ballad Memories" (Baynes).
 9.19: Baritone—Mr. Ray Kemp, "She is the Belle of New York" (Kerker).
 9.23: Vocal duet—Mr. Ray Kemp and Mr. Will Hancock, "When We Are Married" (Kerker).
 9.27: Humour—Mr. and Mrs. Albert Russell, "Sometimes Make a Fuss of Me," from "The Cingalee" (Monckton).
 9.34: Selection—Band of H.M. Grenadier Guards, "New Sullivan Selection" (Arrgd. Godfrey) (Columbia Record 02731).
 9.42: Baritone—Mr. Ray Kemp, "Googan's Fancy Ball" (Kerker).
 9.46: Chorus—Etude Quartet, "For the Twentieth Time We'll Drink" (Kerker).
 9.50: Instrumental—Orchestra, "Monsieur Beaucaire—Incidental Music" (Rösse).
 10.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, OCTOBER 4.

- 3.0 : Afternoon session—selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0 : Children's session, conducted by "Storyman".
 6.0 : Dinner session—"His Master's Voice" Hour:
 Overture—National Symphony Orchestra, "Light Cavalry" (Suppe) (Zonophone EE102).
 Waltz—Chicago Symphony Orchestra, "Roses of the South" (Strauss) (D1452).
 'Cello—Pablo Casals, "Moment Musical" (Schubert) (DA776).
 6.13: Tacet.
 6.15: Hilo Hawaiian Orchestra, (a) "Kawaihau Waltz" (Kelakai); (b) "My Hula Love" (B2799).
 Medley Waltz—The Troubadours, "Popular Songs of Yesterday" (EB33).
 'Cello—Pablo Casals, "Le Cygne" (Saint-Saens) (DA776).
 6.27: Tacet.
 6.30: Waltzes—International Concert Orchestra, (a) "The Merry Widow" (Lehar); (b) "Luxemburg" (Lehar) (Zonophone EF9).
 Violin and guitar—Guilietta Morino, (a) "Harlequin's Serenade" (Drigo); (b) "Could I?" (Poggis) (Zonophone EE134).
 6.44: Tacet.
 6.45: New Light Symphony Orchestra, (a) "The Dancing Doll" (Poldini); (b) "At Dawning" (Cadman) (B2629).
 Wurlitzer organ—Jesse Crawford, "Carolina Moon" (Davis) (EA536).
 Royal Opera Orchestra, "The Sleeping Beauty" (Tschaiakowsky) (C1469).
 6.58: Tacet.
 7.0 : News session.
 7.30: Talk, arranged by 3YA Primary Productions Committee—"Farm Chat—Choice of Grass Seed" (Agricultural Bulletin, No. 3, issued by the Canterbury Chamber of Commerce, prepared in conjunction with the Canterbury Agricultural College, Lincoln, and Economics Department, Canterbury College).
 8.0 : Chimes.
 8.1 : Overture—Rebroadcast of 2YA, Wellington.
 8.9 : Baritone—Mr. Robt. Allison, "Border Ballad" (Cowen).
 8.13: Marimba Orchestra—"When Its Love Time in Hawaii" (Heagney) (Zonophone 3852).
 8.17: Soprano—Miss Ella Skurr, (a) "By the Waters of Minnetonka" (Laurence); (b) "The Green is on the Grass Again" (Willeby).
 8.23: Dance music—Bailey-Marston Dance Orchestra, (a) "I Wanna Go Places and Do Things" (Whitney); (b) "Blossoms" (Deitrich).
 8.31: Recital—Mrs. Margaret Williams, "Ooh Er" (in Cockney vernacular) (Wish Wynne).
 8.38: Waltzes—International Concert Orchestra, (a) "Over the Waves" (Rosas); (b) "Danube Waves" (Ivanovici) (Zonophone EF3).
 8.46: Mezzo-contralto—Mrs. E. H. Davies, "Homeland" (Drummond).
 8.50: Mouth organ solos—Mr. H. N. Cornish, (a) "Carolina in the Morning" (arrgd. Cornish); (b) "Daisy Bell" (arrgd. Cornish).

- 8.55: Popular song—Mr. W. J. Richards, "The Skipper" (Jude).
 9.0: Weather report.
 9.2: Dance music—Bailey-Marston Dance Orchestra, (a) "What D'ya Say?" (Henderson); (b) "Old Man Sunshine" (Romberg).
 9.10: Soprano—Miss Ella Skurr, "A Woman's Last Word" (Bantock).
 9.14: Violin and wurlitzer organ—De Groot and Terence Casey, "Cavatina" (Raff) (H.M.V. B2820).
 9.18: Baritone—Mr. Robt. Allison, (a) "A Pastoral" (Maley); (b) "The Carnival" (Molloy).
 9.24: Pipe organ, trombone, piano, and harp—Shilkret's Rhythm Melodists, (a) "When You're With Somebody Else" (Gilbert); (b) "Dolly Dimples" (Baer) (H.M.V. EA48).
 9.30: Mezzo-contralto—Mrs. E. H. Davies, (a) "An Emblem" (Thompson); (b) "When the Great Red Dawn is Shining" (Sharpe).
 9.37: Dance music—Bailey-Marston Dance Orchestra, (a) "Wedding of the Painted Doll" (Brown); (b) "I Kiss Your Hand, Madame" (Erwin).
 9.45: Popular songs—Mr. W. J. Richards, (a) "The Farmer's Pride" (Russell); (b) "A Chip of the Old Block" (Squire).
 9.51: Mouth organ solos—Mr. W. M. Cornish, (a) "Two Little Girls in Blue" (arrgd. Cornish); (b) "Abide With Me" (arrgd. Cornish).
 9.56: Recital—Mrs. Margaret Williams, "A Bedtime Story" (Wish Wynne).
 10.1: Dance music by the Bailey-Marston Dance Orchestra:
 "Here Comes the Show Boat" (Kern).
 "Cross Roads" (Mendoza).
 "Blue Danube" (Strauss).
 "Cuckoo" (Robison).
 "Nothing to do but Think of You" (Bernard).
 "One Alone" (Romberg).
 "The Desert Song" (Romberg).
 "Gotta be Good" (Schertzing).
 "Louise" (Berlin).
 "Pickin' Cotton" (Henderson).
 "Ten Little Miles From Town" (Kahn).
 "The One That I Love Loves Me" (Turk).
 "San" (Nichols).
 11.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, OCTOBER 4.

- 8.0: Town Hall chimes.
 8.1: Selected gramophone items.
 4.25: Sports results to hand.
 6.0: Children's session, conducted by Aunt Anita.
 7.0: News session.
 8.0: Town Hall chimes.
 8.1: Overture—Budapest Philharmonic Orchestra, "Rakoczy" March (Berlioz) (Columbia 02729).
 8.5: Presentation of the song cycle "The Little Sunbounet" (Hermann Lohr) by the 4YA Harmonists.
 8.45: Instrumental—4YA Broadcasting Trio, (a) "Entr'acte Valse" (Helmberger); (b) "Elegie and Consolation" (Atherton).
 8.53: Baritone—Mr. F. M. Tuohy, (a) "The Pledge" (Russell); (b) "A Farewell" (Liddle).
 8.59: Weather report.
 9.1: Selection—J. H. Squire Celeste Octet, "Memories of Mendelssohn" (arrgd. Sear) (Columbia 02838).
 9.9: Mezzo-soprano—Miss Mollie Andrews, (a) "Nymphs and Shepherds" (Purcell); (b) "I Know a Bank" (Shaw).
 9.14: Tenor—Mr. H. A. Johnston, "Total Eclipse" (Handel).
 9.23: Cello—Mr. P. J. Palmer, "Canzonetta" (Squire).
 9.28: Choir—Don Cossacks, "Evening Belis" (arrgd. Jaroff) (Columbia 02792).
 9.32: Instrumental—4YA Broadcasting Trio, (a) "Andante Con Moto Tranquillo" (Mendelssohn); (b) "Melodie Mignonne" (Sinding); (c) "Evening Song" (Schumann).
 9.44: Soprano—Miss Mae Matheson, (a) "Ave Maria" (Kahn); (b) "Will o' the Wisp" (Spross).
 9.50: Violin—Mr. Frank Parsons, "Perpetuum Mobile" (Paganini).
 9.55: Suite—Plaza Theatre Orchestra, "Gypsy Suite" (German): (1) Valse—Lonely Life; (2) Allegro—The Dance (Columbia 02537).
 10.0: Close down.

Saturday, October 5

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, OCTOBER 5.

- 11.30 a.m. (approx.): Results of Auckland Racing Club's meeting at Ellerslie.
 5.0: Children's session, conducted by Cinderella.
 6.0: Dinner Session—"His Master's Voice" Hour:
 Black Diamonds Band, "Two Folk Dances": 1. The Mary and the Dorothy; 2. Haste to the Wedding (V1074).
 Violin—Fritz Kreisler, "Indian Love Call" (Primi) (DA785).
 6.13: Tacet.
 6.15: New Light Symphony Orchestra, "Spanish Dance" (B2584).
 Vocal quartet—The Revellers, "Evenin'" (B2972).
 Kolomuku's Honoluluans, "Southern Melodies" Waltz (Zonophone Record A345).

- 6.28: Tacet.
 6.30: Organ—Jesse Crawford, "O Promise Me" (De Kovan) (EA209).
 Violin—Fritz Kreisler, "Deep in My Heart, Dear" (Romberg) (DA785).
 Black Diamonds Band, "In a Clockmaker's Shop" (Zonophone Record 5274).
 George Olsen's Orchestra, "Big City Blues" (EA554).
 6.43: Tacet.
 6.45: George Olsen's Orchestra, "Breakaway" (Gottler) (EA554).
 Organ—Jesse Crawford, "Because" (D'Hardelot) (EA209).
 De Groot and Piccadilly Orchestra, "The Waltz Dream" selection (Strauss) (B2834).
 7.0: News and market reports—sports results.
 8.0: Chimes.
 8.1: Selection—Studio Orchestra, "Madame Pompadour" (Foulds).
 8.11: Vocal quartet—Amphian Male Quartet, "Apple Blossom Time" (Brunswick Record 3574).
 8.17: Clarinet—Johnny Dodds, "Clarinet Wobble" (Brunswick Record 3574).
 8.17: Baritone—Mr. R. Richards, (a) "Linden Lea" (Vaughan Williams); "Achal by the Sea" (Larovance).
 8.24: Suite—Orchestra, "Russet and Gold" (Sanderson):
 1. Haymakers' Dance; 2. Shepherds' Gay; 3. Russell Maids; 4. Come, dance at our wedding.
 8.34: Humour—Mr. Dan Flood, "Telephone Language."
 8.38: Hawaiian—Royal Hawaiians, (a) "Rainbow of Love"; (b) "Dance in Waikiki" (Brunswick Record 3783).
 8.44: Contralto—Miss M. Clague, "Like to the Damask Rose" (Elgar).
 8.48: Pianoforte—Miss Edna Langmuir, (a) "March of the Dwarfs" (Grieg); (b) "Valse Op. 70" (Chopin).
 8.55: Baritone—Mr. R. Richards, "Lord Randal" (Cyril Scott).
 8.59: Weather report.
 9.1: Banjo—Fred Van Eps, (a) "Daly's Reel" (Daly); (b) "Chinese Picnic" (Herbert) (Brunswick Record 2018).
 9.7: Vocal quartet—Criterion Male Quartet, "De Sandman" (Prothette) (Brunswick Record 2218).
 9.10: Fantasia—Studio Orchestra, "Der Frieschutz" (Weber-Rhode).
 9.19: Contralto—Miss M. Clague, (a) "Swing Low, Sweet Chariot"; (b) "I Stood on De Ribber Ob Jerdon" (Negro Spirituals).
 9.27: Vessella's Italian Band, "Hungarian Rhapsody No. 2" (Liszt).
 9.35: Humour—Mr. Dan Flood, (a) "The Second Hand Belle of Seville"; (b) "Addinoiditty."
 9.43: Soprano—Miss E. Langmuir, (a) "Boat Song" (Ware); (b) "Butterfly Wings" (Phillips).
 9.50: Instrumental—Studio Orchestra, "Arbucklenian" (Hartman).
 9.59: "His Master's Voice" Dance Programme:
 Tango foxtrot—Hamp's Kentucky Serenaders, "Mia Bella Rosa" (Kochler), (EA545).
 Foxtrot—Geo. Olsen's music, "Dream Mother" (Lewis) (EA569).
 Foxtrot—Geo. Olsen's music, "A Garden in the Rain" (Gibbons) (EA569).
 Waltz—Connecticut Yankees, "Bye and Bye, Sweetheart" (Yellen) (EA549).
 Waltz—Arcadians' Dance Orchestra, "Just a Little Fond Affection" (Nicholls) (Zonophone Record 5216).
 10.15: Baritone—Maurice Chevalier, "Wait 'Til You See Ma Cherie" (Robin) (EA542).
 Foxtrot—Leo Reisman's Orchestra, "Josephita" (Klages) (EA545).
 Foxtrot—Arcadians' Dance Orchestra, "In Old Vienna" (Nicholls) (Zonophone Record 5216).
 Foxtrot—Jack Hyton's Orchestra, "Up in the Clouds" (Ruby) (B5612).
 Waltz—Bert Hyman's Dance Orchestra, "Sunset Down in Somerset" (Evans) (Zonophone Record EE96).
 10.30: Comedian—Vaughan de Leath, "Kentucky Babe" (Geibel), (Zonophone Record EE110).
 Foxtrot—Jack Hyton's Orchestra, "Thinking of You" (Ruby) (B5612).
 Foxtrot—Rhythmic Eight, "You Don't Like It—Not Much" (Kahn), (Zonophone Record EE96).
 Foxtrot—Rhythmic Eight, "Possibly" (Gibbons) (Zonophone Record EE97).
 Waltz—Troubadours, "Pagan Love Song" (Freed) (EA558).
 10.45: Baritone—Maurice Chevalier, "Louise" (Robin) (EA542).
 Foxtrot—Waring's Pennsylvanians, "I Used to Love Her in the Moonlight" (Lewis) (EA558).
 Foxtrot—Jesse Crawford and Orchestra, "I've Got a Feeling I'm Falling" (Link) (EA586).
 Waltz—Jesse Crawford and Orchestra, "She's a New Kind of Old-Fashioned Girl" (EA586).
 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, OCTOBER 5.

- 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 Toby and Aunt Gwen.
 6.0: Dinner session:
 Waltz—La Vittoria Orchestra, "The Wedding of the Winds" (Haff) (Zonophone EE21).
 New Light Symphony Orchestra, (a) "Idyll, 'The Glow-Worm'" (Lincke); (b) Intermezzo, "Hearts and Flowers" (Tobani) (Zonophone EE20).
 6.12: Tacet.

- 6.15: International Concert Orchestra, (a) "Parade of the Wooden Soldiers" (Jessel), (b) "Lazy Pete" (Kersten) (Zonophone 5221).
 Waltzes—Royal Music-Makers, (a) "Ah! Sweet Mystery of Life" (Herbert), (b) "Kiss Me Again" (Herbert) (Parlophone A2722).
 6.27: Tacet.
 6.30: Waltzes—Paul Whiteman's Orchestra, (a) "Coquette" (Berlin), (b) "Blue Hawaii" (Baer) (Columbia 07021).
 Organ—Quentin McLean, (a) "Flower of Love" (Mendoza), (b) "I Kiss Your Hand, Madame" (Erwin) (Columbia 015722).
 6.42: Tacet.
 6.45: Hawaiian—Linn Milford's Hawaiian Players, (a) "Aloha-oe" (Liliuokalani), (b) "Kiluna" (traditional) (Regal G20484).
 Pianoforte—Gil Dech, "Wedding of the Painted Doll" (Freed) (Columbia 01549).
 Quickstep—Debroy Somers Band, "A Hunting Medley" (arrgd. Somers) (Columbia 02832).
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. V. Hutchinson, Travel Talk, "Travelling Home Through the United States."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, (a) "Parade of the Tin Soldiers" (Jessel), (b) "Heisses Blut Waltz" (Schenk).
 8.9: Vocal quartet—Melodie Four, "Thuringian Volkslied" (Abt).
 8.13: Instrumental—Mrs. Mildred Kenny's Guitar Orchestra, (a) "My Hula Girl from Waikiki" (Clarke), (b) "Barcarolle" (Bickford).
 8.20: Comic song and whistling solo—Mrs. Winifred Birch-Johnston, (a) "Arguments" (Pether), (b) "Believe Me If All Those Endearing Young Charms" (Moore).
 8.28: Instrumental—Orchestra, "Clutsam's Plantation Songs" (Clutsam).
 8.35: Bass—Mr. W. W. Marshall, "The Yarn of the Fiddler's Ghost" (Trotter).
 8.39: Humour—Mr. Will Nye, "Buying a Bit of Fish" (Middlemiss).
 8.45: Wurliitzer organ—Jesse Crawford, "Where the Shy Little Violets Grow" (Kahn) (H.M.V. EA521).
 8.49: Tenor—Mr. Sam Duncan, "Ave Maria" (Gounod).
 8.53: Instrumental—Orchestra, request number.
 9.1: Weather report.
 9.3: Vocal quartet—Melodie Four, request number.
 9.7: Instrumental—Mrs. Mildred Kenny's Guitar Orchestra, (a) "The Old Parlour Clock" (Cusenza), (b) "Hawaiian Islands Waltz" (Cusenza).
 9.14: Baritone—Mr. R. S. Allwright, "The Day I Get to Heaven" (Lehmann).
 9.18: Novelty—Orchestra, "In a Bird Store" (Lake).
 9.26: Humour—Mr. Will Wye, "A Kiss in the Train" (Anon.).
 9.33: Novelty—Variety Singers, "An Old-time Music-hall" (Regal G30010).
 9.41: Tenor—Mr. Frank Bryant, "The Old Refrain" (Kreisler).
 9.45: Vocal quartet—Melodie Four, "Little Cotton Dolly" (Giebel).
 9.49: Instrumental—Orchestra, Dance Novelities.
 10.0: "His Master's Voice" Dance Programme:
 Foxtrot—Waring's Pennsylvanians, "A Love Tale of Alsace Lorraine" (Davis) (EA561).
 Foxtrot—George Olsen's Music, "Dream Mother" (Lewis) (EA569).
 Foxtrot—Waring's Pennsylvanians, "Honey" (Simons) (EA561).
 Foxtrot—George Olsen's Music, "A Garden in the Rain" (Dyrenforth) (EA569).
 10.12: Baritone—Maurice Chevalier, "Louise" (EA542).
 Waltz—Troubadours, "Pagan Love Song" (Freed) (EA558).
 Waltz—Arcadians Dance Orchestra, "Anita" (Pollack) (Zonophone EE154).
 Foxtrot—Jack Hylton's Orchestra, "Thinking of You" (Ruby) (B5612).
 Foxtrot—Waring's Pennsylvanians, "I Used to Love Her in the Moonlight" (Florito) (EA558).
 Foxtrot—Jack Hylton's Orchestra, "Up in the Clouds" (Ruby) (B5612).
 10.30: Male voices—The Revellers, "Comin' Home" (Deppen) (B2972).
 Foxtrot—George Olsen's Music, "Big City Blues" (Gottler) (EA554).
 Foxtrot—George Olsen's Music, "That's You, Baby" (Gottler) (EA553).
 Foxtrot—George Olsen's Music, "Breakaway" (Gottler) (EA554).
 Waltz—Arcadians Dance Orchestra, "That Old-time Organ Melody" (Carlton) (Zonophone EE155).
 10.45: Sporting summary.
 11.0: Close down.
 Foxtrot—George Olsen's Music, "Dream Mother" (Lewis) (EA561).

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, OCTOBER 5.

- 3.0: Studio programme, interspersed with progress reports of the Timaru—Christchurch road race.
 4.25: Sports results to hand.
 5.0: Children's session, conducted by Aunt Pat and Chuckle.
 6.0: Dinner session—"Parlophone Hour":
 Fantasia—Edith Lorand Orchestra, "Johann Strauss" (Strauss) (A4044).
 Piano and orchestra—Raie da Costa, "When Day is Done" (De Sylva) (A4041).
 6.12: Tacet.
 7.15: Hawaiian—David Kaili, "Honolulu March" (A2464).
 Cinema organ—Leslie Harvey, "Where the Shy Little Violets Grow" (Warren) (A2695).
 Waltz—Dajos Bela Orchestra, "The Grenadiers" (Waldteufel) (A4081).

- Saxophone—Arnold Brillhart, "Fascination" (Bernie) (A2676).
 6.28: Tacet.
 6.30: Waltz—Dajos Bela Orchestra, "Polish Life" (Nedbal) (A4008).
 Piano and orchestra—Raie da Costa and Orchestra, "Sweetheart, I'm Dreaming of You" (Carter) (A4041).
 Dajos Bela Orchestra, "Dancing Demoisell" (Fall) (A4008).
 6.42: Tacet.
 6.45: Edith Lorand Orchestra, "Dollar Princess" Selection (Fall) (E10512).
 Waltz—Dajos Bela Orchestra, "Casino Tanze" (Gungi) (A4081).
 6.57: Tacet.
 7.0: News session.
 7.30: Sports results.
 7.50: Rebroadcast of 2YA, Wellington (Vaudeville Programme).
 8.30: Relay from Chamber of Commerce, Christchurch, of presentation of prizes to winners of the Timaru-Christchurch road race.
 Continuation of rebroadcast of 2YA, Wellington.
 10.0: "Brunswick" Dance Programme:
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Broadway Melody" (Brown) (4231).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Wedding of the Painted Doll" (Brown) (4232).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "You Were Meant For Me" (Brown) (4231).
 Waltz—Los Angeles Biltmore Hotel Orchestra, "Love Boat" (Brown) (4232).
 10.12: Organ solo—Lew White, "Coquette" (Berlin) (4301).
 Foxtrot—Jesse Stafford's Orchestra, "A Precious Little Thing Called Love" (Davis) (4249).
 Foxtrot—Barnes Royal Creolians, "It's Tight Like that" (Smith) (4244).
 Foxtrot—Jesse Stafford's Orchestra, "Kewpie" (Rose) (4249).
 Foxtrot—Colonial Club Orchestra, "I Love You" (Bryan) (4241).
 10.27: Male quartet—Ritz Quartet, "I'm Bringing a Red, Red Rose" (Kahn) (4328).
 Foxtrot—Paramount Hotel Orchestra, "I'll Never Ask for More" (Turk) (4203).
 Foxtrot—Colonial Club Orchestra, "My Lover" (Lewis) (4241).
 Foxtrot—Paramount Hotel Orchestra, "When the World is at Rest" (Davis) (4203).
 Waltz—Regent Club Orchestra, "Poor Punchinello" (Lewis) (4206).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "I'm Telling You" (Rose) (4190).
 10.45: Chorus—Blue Ridge Ramblers, "Who Broke the Lock on the Hen House Door?" (Smith) (310).
 Waltz—Regent Club Orchestra, "Loneliness" (Pollack) (4206).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "I Found You Out When I Found You In" (Ponce) (4190).
 Foxtrot—Brunswick Orchestra, "Redskin" (Zamecnik).
 One-step—Rhythm Aces, "Jazz Battle" (Smith) (4244).
 11.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, OCTOBER 5.

- 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: Relay of 3YA, Christchurch (Rebroadcast of 2YA Wellington—Vaudeville programme).
 10.0: "Columbia" Dance Programme:
 Foxtrot—Al Starita's Band, "I'm Mad About You" (01421).
 Foxtrot—Al Starita's Band, "A Room With a View" (Coward) (01420).
 Foxtrot—Royal Canadians, "High Up on the Hill" (01412).
 Foxtrot—Paul Whiteman's Orchestra, "Louise" (Whiting) (07022).
 10.12: Vocal—Layton and Johnstone, "Dance, Little Lady" (Coward) (01422).
 Foxtrot—Roy Starita's Band, "Truly Rural" (01432).
 Foxtrot—Paul Whiteman's Orchestra, "Nola" (Arndt), (07022).
 Foxtrot—Ted Lewis' Band, "Wear a Hat With a Silver Lining" (01434).
 Waltz—The Cavaliers, "I Loved You Then as I Love You Now" (Rose) (01401).
 Waltz—The Columbians, "Marion" (01433).
 10.30: Tenor—Charles Felton, "Because" (D'Hardelot) (Regal Record G20452).
 Foxtrot—Stellar Dance Band, "If I Had You" (Regal Record G20456).
 Foxtrot—Buck's Orchestra, "My Suppressed Desire" (01433).
 Foxtrot—Debroy Somers' Band, "All by Yourself in the Moonlight" (Wallis) (01432).
 Foxtrot—Al Starita and Piccadilly Band, "Dance, Little Lady" (Coward) (01421).
 10.45: Baritone—Reg. Palmer, "Maire, My Girl" (01505).
 Foxtrot—Lombardo and Royal Canadians, "Where the Shy Little Violets Grow" (01435).
 Foxtrot—Piccadilly Players, "Why Do I Love You?" (01408).
 One-step—Debroy Somers Band, "Casablanca" (01470).
 Waltz—Ted Lewis' Band, "When the Curtain Comes Down" (01440).
 11.0: Close down.

Sunday, October 6

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, OCTOBER 6.

- 3.0 : Afternoon session—Selected studio items.
 4.0 : Literary selection by the Announcer.
 6.0 : Children's session, conducted by Uncle Leo.
 6.55 : Relay of service from St. Mary's Cathedral—Preacher: Canon William Fancourt; organist: Mr. Edgar Randail.
 8.30 (approx.) : Studio Concert:
 Royal Philharmonic Orchestra, "The Flying Dutchman" (Wagner) (Columbia Record 1961-2).
 Baritone—Mr. Clinton Williams, "Open the Gates of the Temple" (Knapp).
 Pianoforte—Ignaz Friedman, "Music Box" (Friedman) (Columbia Record 08504).
 Soprano—Mrs. J. Le Pettit, (a) "Husheen" (Needham); (b) "Four by the Clock" (Mallinson).
 Violin—Miss Ina Bosworth, "Romance" (Wieniawski).
 Tenor—Charles Hackett, "Beloved, It Is Morn" (Aylward) (04060).
 Organ—G. T. Pattman, "Evensong" (Martin) (Columbia Record 9206).
 Baritone—Mr. Clinton Williams, (a) "Give Me Youth and a Day" (Drummond); (b) "Her Rose" (Speaks).
 Violin—Miss Ina Bosworth, "Mennet Berenice" (Handel).
 Soprano—Mrs. J. Le Pettit, "The Arrow and the Song" (Balfe).
 Selection—Band of H.M. Grenadier Guards, "Cleopatra" (Mancinelli) (Columbia Record 0460).
 9.31 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, OCTOBER 6.

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

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, OCTOBER 6.

- 3.0 : Afternoon session—selected gramophone items.
 4.30 : Close down.
 5.30 : Children's song service—Children of the Church of England Sunday Schools.
 6.15 : Hymn chimes from studio.
 6.30 : Relay of service from St. Mary's (Church of England). Merivale:—Preacher: Ven. Archdeacon P. B. Haggitt. Organist and Musical Director: Mr. Alfred Worsley.
 7.45 : (Studio Programme):
 Choral—Berlin Union of Teachers, (a) "The Loreley" (Silcher); (b) "The Heavens are Telling" ("Creations Hymn" (Beethoven-Moldenhauer). (Parlophone Record A5009).
 7.53 : Studio Trio, "Trio" (Bremner).
 8.8 : Bass with chorus—Ivar Andressen and chorus—"The Sacred Name of God" ("The Force of Destiny") (Verdi) (Parlophone Record A5010).
 Soprano with chorus—Meta Seinemeyer, "La Vergine Degli Angeli" ("The Force of Destiny") (Verdi) (Parlophone Record A5010).
 8.16 (approx.) : Rebroadcast of 2YA Wellington (Relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band under the conductorship of Mr. E. Franklin).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, OCTOBER 6.

- 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 First Church:—Preacher: Professor S. F. Hunter, M.A., D.D. Organist: Dr. V. E. Galway.
 8.0 : Studio Concert.
 9.15 : Close down.

Children's Sessions

3YA.—(Continued from page 14.)

V are the Valves, we have in our set,
 W our Wavelength that you have to get.
 X is a cross—so mind you're not it.
 Y is in 3YA—now that one will fit.
 Z is for —. Now, what is it for?
 That's the riddle we ask you, ere
 you ask us for more!



"CINDERELLA,"
 beloved of the children of 1YA.
 —S. P. Andrew, photo.

Our Mailbag

(Concluded from page 12.)

therefore go to one of the Australian stations in the evenings. In conclusion I rather wonder at the "Record" publishing "Disgusted's" letter except as a horrible example of the unreasonableness of some listeners. Reasonable criticism is good and stimulating, but such a diatribe against everything—however trivial—with which "Disgusted" does not agree, is, fittingly, disgusting!—B.P.S. (Orewa).

"Pack Up Your Troubles."

MIGHT I ask if "Disgusted" has ever had any satisfaction from YA stations, or from his set? Or if he has ever been satisfied with anything else but himself? Perhaps if this person was to be put at the head of broadcasting affairs of New Zealand he may be satisfied, but the question is, Would anyone else be? Might I suggest that seeing "Disgusted" is so fed up with YA stations he pack up his kit and also his radio set and go to Australia, where, in his opinion, he can get satisfaction. All good wishes to 2YA, and especially Mr. Announcer—"Well Satisfied" (Gisborne).

Another Radio Widow.

I DESIRE to show my appreciation and approval of the suggestion of the "Radio Widow's" letter in last week's "Record." During the few years that I have been a listener-in we have had in the house several expensive radio sets and the numerous gadgets, wavetraps and thingamebobs that have been used on them would astonish you. But much as my husband has enjoyed tinkering with them,

Wireless Wanderings

ONE of the many duties of the B.B.C. engineers, and one that is little heard of, is to listen-in nightly from a special station to British and foreign broadcasts in order to check frequencies and trace interference. This "detective" station has previously been located in a small hut, but in the near future it will be transferred to a new building at present in course of erection.

THE recent advent of the "talkie" film has caused a shortage in good radio announcers. Broadcasting studios all over the world are at present being explored by the "talkie" people, and announcers with suitable voices are being lured away to Hollywood and other locations. The effect is already being felt in Australia, many of the most popular announcers and artists having left. If this depletion of the rather scanty number of good microphone voices continues, listeners will surely have cause to rue the rapid advance of modern invention.

2FO has employed one of its announcers in a new role. Mr. Lawrence Halbert now concentrates on investigating various effects to produce atmosphere in radio plays. It is recognised that effects are to the radio play what scenery is to the legitimate theatre.

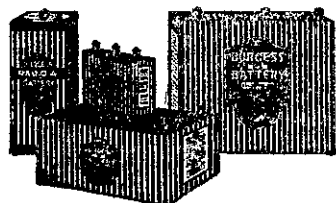
WHEN the German liner Bremen was establishing a record trans-Atlantic trip recently, the operator on board was in two-way communication with an operator of the Sydney Coastal Station, who was using a low-power short-wave set. A trawler off the coast of Greenland has also been "worked" by the coast station at La Perouse.

A PARISIAN engineer claims to have invented an effective substitute for an aerial. This consists in the main of a silvered copper wire housed inside a sealed glass tube, and the whole is considered quite suitable for panel mounting. This claim is quite feasible, as with the modern tendency towards powerful super-sensitive valves we can soon hope to avoid the need of any other than panel-mounted antennae.

I think he has most enjoyed the results of several recipes I extracted from your woman's point of view column—specially one I call "the radio" pudding that we all enjoy once a week, and particularly with a due amount of brandy sauce on Christmas Day. So I hope you will curtail your construction column and start again a household cookery hints for women column. This would please me very much, for my husband spends so much of the night trying new construction ideas that I may truly sign myself—"Half a Widow."

Vagaries of Wireless.

WIRELESS has been well said to resemble a woman for vagaries. To-night at 9.10 distortion was so strong with Wellington that I switched on to Auckland, which came through splendidly clear, and so strongly that I had to control the volume.—W. Wright (Rahotu).



**BURGESS
 RADIO
 BATTERIES**

Laboratory Jottings

Mullard Valves.

WE have received from Speddings Limited, a full range of the new Mullard valves, and have been able to test each valve in its particular place in the set. Four distinct series are now produced: Two, four, and six-volt and A.C. valves. Each range is complete, being equipped with general purpose, high frequency, audio, power, detector, screen grid, and pentode valves. The full range of the new valves is as follows:—

Valve	Position	vf.	ia.	va.	g.	Slope.	Ri.	v.g.
PM1A	Det.	2	.1	150	38	.7	51,000	13
PM1HF	H.F.	2	.1	150	18	.8	22,500	4½
PM1LF	Audio	2	.1	150	11	.9	12,000	7½
PM2	Power	2	.15	150	7.5	1.7	4,400	12
PM2D	Audio	2	.25	150	13.5	1.25	10,700	6
PM12	S.G.	2	.15	150	200	.87	230,000	1½
PM22	Pentode	2	.3	150	82	1.3	62,500	10.5
PM252	Power	2	.3	150	5.4	2.1	2,600	15
PM3	General	4	.06	150	14	1.05	13,000	6
PM3A	Res.	4	.06	150	38	.66	55,000	1½
PM4	Power	4	.1	150	8	1.8	4,450	12
PM4D	Audio	4	.1	150	15	2.0	7,500	4½
PM14	S.G.	4	.075	150	200	.87	230,000	1½
PM24	Pentode	4	.15	150	62	2.3	28,600	10½
PM254	Power	4	.18	150	4.2	2.1	2,000	22½
PM5	General	6	.06	150	17.5	1.2	14,700	4½
PM5B	Res.	6	.06	150	40	.75	55,000	1½
PM6	Power	6	.1	150	8	2.25	3,550	9
PM6D	Audio	6	.1	150	18	2.0	9,000	4½
PM16	S.G.	6	.1	150	200	—	200,000	—
PM28	Pentode	6	.17	150	50	2.0	25,000	12
PM256	Power	6	.25	150	4.25	2.0	2,100	22½
DFA6	Power	4.5	.85	400	6.4	1.45	4,500	30
DFA7	Power	4.5	.85	400	2.4	.86	2,800	150
DFA8	Power	4.5	.85	400	19.5	1.3	15,000	7½
DFA9	Power	6	.6	250	5	2.5	2,000	28½
DO20	Power	7.5	1.3	425	5	2.5	2,000	51

Of these new valves, the following merit special attention:—

The special detectors: 2D, 4D, and 6D. This is a very fine series of very sensitive valves. They will oscillate on very low voltage, and give a high amplification without distortion. They are not easy to overload.

Screen grid valves: The Mullard screen grid valve has a very high amplification factor and steps up the signals very considerably. The plate is taken from the terminal at the top of the glass.

The pentode: The pentode in this make of valve is known as the Pentone, and compares very favourably with other pentode valves. It has been found that if a station is on the borderline of readability and a pentode is introduced in the last stage, it will

be brought in at satisfactory strength. However, a pentode can be easily overloaded, and it is advisable to keep a power valve handy to prevent this happening.

For roundness of tone the set owner is advised to introduce the special power valves, 252, 254, or 256. These are capable of giving just that completeness to reproduction that makes wireless worth while.

THE A.C. valves have been brought out in three types, two of which

are indirectly heated and use the 5-10 base. 102T is the heater valve and in character is very similar to the Radiotron 227. A.C.3 is directly heated and is similar to Radiotron 226. A.C.4 is, strictly speaking, a D.C. valve of the 171A type. It can be used as a super-power valve in the last stage for sets using battery power, but in this case a resistance would be needed in the filament circuit.

The new Mullard valves are sent out in very attractive cartons. These are artistically designed in two colours, and make a very good display. The valves are robust and breakage through ordinary handling very difficult. They are obtainable in either English or UX base.

Wonder of Wonders

Attraction of Radio

AFTER about three and a half years' experience with radio as a listener-in, I have certain thoughts concerning radio which may be of interest more particularly to the new chum to radio.

I well remember the first time I actually heard an Australian station, and the excitement of hearing a violin solo, received on a home-made set owned by a neighbour, excellent reception, too. He worked hard improving his receiver, and finally now that same gentleman can boast of owning probably one of the finest receivers and allied attachments in New Zealand. I did, of course, indulge in a receiver, and soon I was "on the air" for a penny a night. Mark you a "penny a night." Wonderful! Since then I also have made improvements to my receiver, and had to be with the few who owned a short-wave receiver; and again I have had improvements made, and now work a totally new and efficient short-waver. Being musical, music is pleasing and rejuvenates the body, the nerves, the soul, drives away care, worry, and takes one right out of that business groove. Away thousands of miles does the mind wander, miles does the soul look for music, thousands of miles away that carrier-wave starts on its long journey to these shores to tickle the ears of the radio enthusiast. Something to take the mind off everything, something to "buck one up," something to make one feel young, happy, and carefree; that's what I expected of radio, and with certain reservations, I get that something. If New Zealand could not fill my requirements, well, I had recourse to overseas stations. Now, would I miss radio? One might ask. "Can a duck swim?" and if he was on dry land would he want to swim? Of course I would miss the radio: the question almost requires no answer. And yet I have heard some poor fellows say, "D— the radio. I would not be bothered with it, the static and noises, and had reproduction of good music"—music mutilated, as one man said. But see them seeking me for news of boxing and football matches, and other news—rather! They see the value of radio, but it takes a long time to get them to install radio, why I don't know. It cannot be poverty. I think it is just that they will not concentrate their minds on anything in particular; that the only pleasure they get in life is in be-

ing out amongst other people in the theatres and halls, etc. For my part, give me my radio, a good fire, a cosy chair, and I'm "as contented as a king." A king could not be happier, I'm sure. Once my radio was out of commission for three days, and I felt like a duck out of water—there was something missing from the home, something wrong somewhere. On another occasion I was on holiday, and no radio available. Did I miss my radio? I swore on oath, I would never go away again without a radio receiver; and I didn't! for I secured a portable set, and had the fun of the fair on the launch; and heard Christchurch Cathedral bells and all the city glamour and noises on Christmas Eve, and again New Year's Eve. Radio! Why not live now? Why not enjoy life now? Why not get the most out of life now? There is enjoyment enough surely! Why wait for years before partaking of the good things offering? With all the pessimists groaning about trade depression, politics, etc., surely we want something to rejuvenate us during our spare time! It seems to me radio can and will turn pessimists into optimists. Radio will, I'm sure, do a great deal towards rejuvenating the mind, soul, and vitalise humans, if they use radio in the right quantity; for the dose, although harmless, should be taken in correct doses, generally after meals as a tonic. Radio is a genuine tonic for the weary, depressed, and worried mother or father. That is why I have for several years tried to get more humorous items included on the New Zealand programmes. I contend there is an enormous amount of enjoyment from using a short-wave receiver, and these receivers are not expensive, and can be obtained from any radio dealer. Another branch of radio which will bring considerable enjoyment to listeners is the amateur transmitter who works on 'phone transmission. Any listener can send in reports to the amateur transmitter and receive a reply (descriptive) card for his trouble; and a great network of listeners and transmitters is being gradually but surely built up in New Zealand, a genuine circle of friends (unseen) friends; a brotherhood which must be for the good of the community as a whole.

THE educational side of radio has great possibilities, and the Aunts and Uncles are doing fine work—wonderful work, in fact, educating the youngsters, trying to make their lives happy, a fact alone worth the trouble of installing radio in the home. The voices of the announcers are part of the day's routine and life. They do their work well—not much to find fault with in them. I congratulate them.—R. Leslie Jones.

RADIO LISTENERS' GUIDE—1929-30

A comprehensive yet elementary treatment of Radio, written for both Beginner and Experienced Constructor.

Radio in New Zealand;
Crystal Sets and Amplifiers;
Power Transformers;
The Browning-Drake Receivers;
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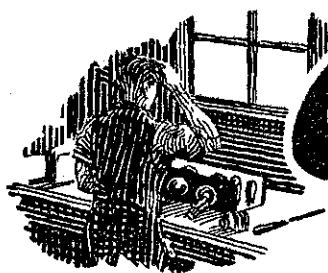
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Questions and Answers



"B" Eliminator Problems.

HOW is one to earth the core of a transformer when only outside strips can be connected to the earthing terminal, the remainder of the laminations are separated from one another? asks "J.W.C." (Napier).

A.: It will be quite sufficient to earth only the outside strips in the manner suggested.

2. On bolting up the core the outside strips have buckled up. Should this be so?

A.: Put a heavier piece of steel or other clamping material across these to prevent buckling.

3. Is a resistance of .00 watts necessary for the output resistance? It appears to be that 6 or 7 would be sufficient.

A.: With an output voltage of 200 a 10 watt dissipation would be necessary to allow passage of 50 milliamperes.

4. What is the value of the grid bias for PM254 so as to bias them when in push-pull to the middle of the curve?

A.: Biasing should be to the left of the mid point of the curve, and this value would be 22½ volts.

5. What is the impedance of Philips PCJJ speaker?

A.: Impedance varies with frequency: at 50 cycles corresponding to a low note, the impedance is 2000 ohms.

Charging with Leclanche Cells.

IN our issue of September 6 we replied to a correspondent who had omitted both name and nom-de-plume, by stating that "2 volt cells could not be economically recharged with Leclanche cells." Further to this, a correspondent, C. A. Pope, 406 Townsend Street, Hastings, wishes to communicate with the inquirer re some charging cells he has for disposal.

Varying Capacity.

WISHING to adapt the Round-the-World Two to the broadcast band, "D.McW." (Westport) suggests placing a .0003 fixed condenser so that it may be switched in series with a .0005 to reduce its capacity to .0002 at will. He asks if this will work.

A.: It should work quite well as a compromise, but would not, of course, be as efficient on a short wave as a .0002 variable condenser. However, for an all-wave set the idea is quite a good one.

A Tuned Anode Booster.

COULD the 435 type of valve be used in an R.F. booster? asks "Back-blocks" (Glen Murray).

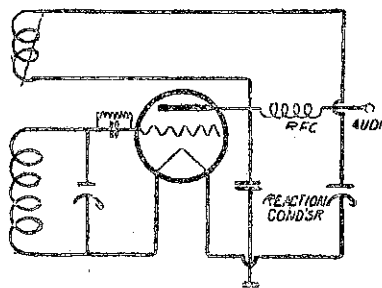
A.: Yes. A diagram will be published which illustrates the point and answers your other questions.

"Pentode's" Crystal and Valve.

"J.O." (Auckland) asks the following questions:—

1. Would you publish a circuit of this receiver incorporating the combination moving coil and condenser control reaction?

A.: The diagram will suggest the combination.



2. How can a double grid valve with a plate voltage of only 22½ possibly give the low notes?

A.: It cannot.

3. Which will be the best type of speaker to use with a single valve with 90 volts on the plate?

A.: Usually a medium size, but you should try out if possible different types. A sensitive cone would give you the best results.

4. Is it not undesirable to earth both the primary and the secondary of the transformer?

A.: It is desirable to do so, unless results prove otherwise.

5. Is a 3/1 transformer sufficient for the set?

A.: Yes, but a higher ratio would give higher amplification.

Improving the Audio.

"RADIO FIEND" (Halcombe) asks the improvement of his audio stages:

1. Could I connect two power valves in parallel and the last stage of audio?

A.: Yes. With improvement, but push-pull would be much better.

2. Would it be worth the trouble of installing?

A.: No. Much better to carry out the first suggestion.

3. Could a screen grid valve be used in a one-valve set?

A.: Not without seriously complicating the circuit; even then it is doubtful if it would be a success.

1. How can a 7-wire cable be connected so as to give four separate tapings for grid bias?

A.: It cannot—three are the most it can take, unless the number of "B+" tapings are sacrificed. Three different bias tapings are surely unnecessary in an average set.

Neutralisation Trouble.

WHEN trying to turn on the volume signals become suddenly weak, states "J.F." (Napier). I have a good aerial and earth.

A.: It appears as though the set is not neutralised properly, though there may be other causes that could be detected only by inspection.

The Tetrode Amplifier.

I HAVE constructed the Tetrode Amplifier described in the "Listeners' Guide." Would this be suitable for a 2-valve amplifier? asks "G.B.C." (Auckland).

A.: Yes, it should be quite a good circuit. If more volume is required, construct the tetrode set with reaction described a couple of months ago.

Carrier Waves Only.

I CAN get the carrier waves of about 8 stations, states "C.Q." (Auckland). but I am unable to get them at any strength. My set comprises detector and audio, and when I place my finger on the grid terminal of the detector valve, a howl results. I have altered the grid leak to no avail.

A.: The fact that a howl results when the grid is touched indicates that the audio side of the set is in perfect working order. Examine carefully the aerial circuit for loose terminals, and dirty or poor contacts. See our reply to a correspondent in last week's "Questions and Answers."

2. When I turn the dial on the reaction condenser with the aerial disconnected a howl results. What is the cause of this?

A.: When the aerial is disconnected the load is moved from the grid circuit, and howl results.

Interfering Morse Station.

I HAVE been troubled for the last week or so with an interfering morse station on about 1000 kilocycles. It is so close that it is impossible to hear any station on the broadcast band except 2YA.—Newtown.

A.: Probably H.M.S. Dunedin, and if so this trouble will have ceased by now. If still continuing communicate again and steps will be taken to have the trouble rectified.

Fading on a Crystal.

I HAVE an all-wave crystal set, writes "AU-Wave" (Dunedin), and to-night, Dunedin's silent night, I am listening to 2YA, but very bad fading makes listening difficult. Can anything be done?

A.: You are getting excellent results for a crystal set, and at that distance, fading will be accentuated. We take for granted that you have examined very carefully for loose or dirty connections in both antenna and earth circuits.

A Suitable Portable.

CAN you recommend the Rotorua portable as described in the "Radio Record" as a set for the summer months?

V3

PERFECTED PENTONE VALVES BY MULLARD

THE VALVE WITH THE TWO-VALVE PUNCH

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

The new Mullard Pentone is a power output valve that does the work of two ordinary L.F. stages. It enables you to increase enormously the volume from your receiver without any alteration to the existing wiring. Moreover, by dispensing with one stage of L.F. amplification the use of the Mullard P.M. Pentone results in a remarkable increase in purity.

The Pentone differs from the usual super-power valve in that it has two additional grids, one of which is connected internally to the filament while the other makes connection with a terminal on the side of the valve base. It has a normal four-pin base and plugs into any standard valve holder. The only addition is a flexible lead from the terminal on the valve base to the H.T.+

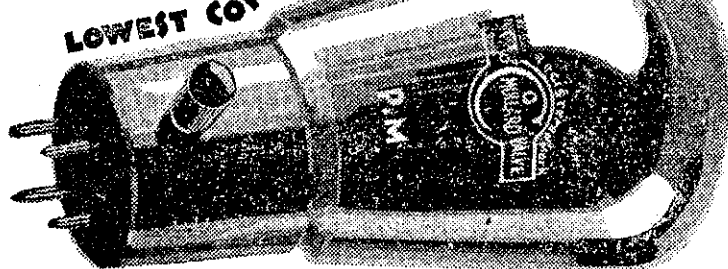
In consequence the Mullard Pentone is capable of delivering a huge output of pure undistorted volume and has an enormous amplification factor—in the case of the Mullard 4 volt Pentone P.M.24 the amplification factor is 62. The mutual conductance of the Mullard P.M. 24 is 2.3 mA/V as compared with 1 mA/V or less for a super-power valve of the 3 electrode type.

Mullard

THE MASTER VALVE

Obtainable in 2, 4, and 6 Volt U.X. and English Base. \$2/6.

LOWEST CONSUMPTION—HIGHEST EFFICIENCY



Adm. The Mullard Wireless Service Co., Ltd., Mullard House, Denmark Street, London, W.C.2

Obtainable in 2, 4, and 6-Volt. U.X. and English Base, from all good Radio Dealers. New Zealand Selling Agents: SPEDDING LIMITED; Box 462. Auckland; Box 1581. Wellington; Box 922, Christchurch; Box 516, Dunedin.

A.: Yes, we can give it the best recommendations, but within a month or six weeks we will be bringing out a special portable number, in which we hope to describe a screen-grid portable set.

An "A" Battery Eliminator.

CAN I break down the voltage from the detector tapping of my "B" eliminator to 6 volts to supply .75 amps to the "A" circuit? asks "C.K.A." (Dunedin).

A.: You can break down the voltage, but if it were connected to the filaments of the valves, the resistances within the eliminator would be burnt out very rapidly. A good eliminator supplies 100 millamps, or .1 of an amp.

2. Is it possible to convert a trickle charger into an "A" eliminator by the use of condenser blocks and at the same time operate a moving-coil loudspeaker?

A.: Trickle chargers are made to supply .5 amp. Your valves require .75, and the speaker about .5, making a total of 1.25 amps. The particular charger under discussion, however, will supply current at two rates: .6 and 1.3. It can be seen that it will be able if it can be sufficiently smooth without chokes, that this will suffice. To smooth the "A" current, follow the instructions in last week's special issue.

Question of Selectivity.

"SONORA" (Wellington) asks if he can shorten his aerial to eliminate 2YA.

A.: This will have an effect in the direction of the desired effect, but, as he suggests, will weaken reception slightly. The aerial should not point to 2YA. A wave-trap is your best solution.

2. They compare one with the other favourably.

Reducing A.C. Hum

IF you use an A.C. eliminator for your "A" or "B" supply, you may be troubled with a slight hum, continually audible in the loudspeaker. This should not be prominent with a well designed eliminator, but the hum may also occur if your lighting circuit is A.C., whether you use it for supplying the receiver or not. This hum can be materially reduced, and even sometimes eliminated altogether, by lowering the value of the detector grid leak. Values down to about $\frac{1}{2}$ megohm should be tried. The value of the grid condenser may also be varied with success. Here the capacity may be lowered to .0001 without seriously impairing the functioning of the receiver.

Radio in Alaska

IN no country in the world has radio proved of greater assistance to scattered communities than in Alaska. There paper mills, canneries, gold mines and outback trading posts all have their own little broadcasting plants for communicating with a central service run by the United States military authorities, who in this northern land handle also all commercial communications. The Alaskan newspapers depend almost entirely on radio service for their news of the outside world.

Detecting Oscillation

Use of a Milliammeter

VERY few people who have a milliammeter which will satisfactorily read between 0 and 10 milliamperes realise that it can provide a very interesting and certain indication of oscillation. One cannot be too certain that a set is not oscillating, because apart from the question of upsetting the reception of others, oscillation will cause distortion.

The meter is connected in the plate circuit of the detector valve, somewhere between the plate and the H.T. + lead. It must not, however, be in a common H.T. + lead. With detectors using a grid leak and condenser, as soon as the set bursts into oscillation, or gradually builds up towards oscillation, so the needle of the milliammeter will jerk to a lower reading or gradually fall, as the case may be.

Hum in Crystal Sets

How to Eliminate It

CRYSTAL receivers, though universally recognised as being trouble-free, in remote cases develop an annoying hum in the 'phones.

Such interference is probably due to the proximity of (a) a generating station, (b) power mains, (c) a portion of the electric wiring of the house running approximately parallel to the aerial.

As removing the cause of the trouble is unfortunately impracticable, any method of eliminating this interference must be developed from the set itself.

In most cases, if a moistened fingertip is placed on the earth terminal, the hum will disappear, though upon removal of the finger-tip the disturbance, of course manifests itself once more.

However, elimination may be made permanent by attaching a 5ft. or 6ft. length of bare wire to the earth terminal, and by allowing it to dangle upon the floor. Alternatively, this may be attached to a metal plate, or to any convenient metal object in the room, such as a brass fender.

This extra earth connection establishes a means of capacity leakage, and this allows the induced oscillations responsible for the interference to leak away to earth.

"Jazz"

Definition Contest

A RECENT contest held by an American radio station among its listeners for the best definition of jazz music brought the following replies:

"The flapper's lullaby."

"The loose chain on the tire of life."

"Rhythm used by the imps of Hades in their membership drive among mortals."

"Unbuttoned music."

"The true expression of the big city."

"The pig's squeal discarded by the packers."

"An inspiration of the younger generation to keep the older generation alive."

"A rhythmic scramble of knives and forks shaken frantically in a tin pan."

"Sixty per cent. atmospherics, 25 per cent. cat's meow, 8 per cent. insanity, 5 per cent. bunk, and 2 per cent. music."

Topical Notes

(By "Switch.")

A LISTENER acquaintance of the older vintage, who dates back to six or seven years' association with broadcast listening, recently asked "Switch" how it was that such a wonderful array of talent was put on the air in Australia. First of all, Sydney and Melbourne possess superb conservatoriums of music, with highly specialised teachers, who include men such as Mr. Spencer Thomas, who arrived in Australia as first tenor in the Quinland Operatic Company. Then there is a steady influx to Australia of gifted English and Continental vocalists and instrumentalists, who never get as far as New Zealand. The fame of Australians as a music-loving people has drawn these artists to the Commonwealth, where they are engaged in concert work and teaching.

WITH the huge sum of money at their disposal the new Australian Broadcasting Company is able to embark on a new and interesting scheme. The plan constitutes the holding of a class every Saturday morning for aspiring performers, who will be instructed in performing before the microphone, and how to overcome what is known as "mike fright." Experience everywhere shows that many good singers and even instrumentalists suffer from microphone fright, and their efforts are somewhat marred by this.

The Australian Broadcasting Company are not going to charge the students any fee.

MANY people in comfortable circumstances in our midst still hold aloof from radio under the misapprehension that it requires a certain amount of technical knowledge. They have not been sufficiently interested to visit radio exhibitions, where they would perceive that the modern A.C. set is easier to manipulate than a gramophone. It is thirty-three years since Marconi demonstrated in England the first practical system of wireless telegraph communication, and broadcast receiving sets have now reached a parallel stage of perfection to that of the motor-car. Traders should concentrate on the manifest simplicity of the A.C. set, more than ever.

Technical Hints

IF a valve has a magnification factor of, say, 25, this means that 1 volt upon the grid will have the same effect as 25 volts upon the plate (and 3 volts upon the grid equal 75 volts upon the plate, etc.).

WHEN unwinding a new aerial wire be sure not to allow it to kink or bend sharply, as this will inevitably weaken it.

IF you contemplate charging your own accumulators, remember that on no account should this be done with a naked light close to the charging.

IF you find that your set distorts only after the receiver has been in use for an hour or two, you can be pretty sure that either the high or low-tension supply is inadequate for the needs of the receiver, and that the correct and more economical plan would be to use a larger capacity battery.

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Just for 3 or 4 days, that's all! Then the TOBACCO HABIT leaves you for good.

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RADIO LTD.,
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ELECTRIFY YOUR CRYSTAL SET WITH THE "ALL EK" ELECTRIC AMPLIFIER!

The "ALL EK" is something entirely new in electric amplification. There is nothing involved about the "ALL EK." To amplify your little Crystal Set is so simple: just attach two terminals to the "ALL EK," two to your loudspeaker and plug into a light socket—the resulting tone being crystal clear and of ample volume for any home.

Price £3/10/., complete with Radiotron Valves.

ELECTRIC LAMP HOUSE, LTD.

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The Technician Explains

Inductance Coil Design

(By "Cathode")

Second Instalment.



In case any readers should not have noticed the correction inserted in the issue of September 6, it is desired to point out that in the design charts printed in the issue of August 23, and giving the number of turns necessary to attain certain specified inductances with different dimensions of coil, curve A refers to a coil diameter of 3 inches and not 2 inches, as stated, while curve C relates to a coil diameter of 2 inches.

The subject to be dealt with in this paper is that of the most efficient, or, as it is termed, the "optimum" diameter of wire for any particular coil.

The fact that for any particular coil there exists one diameter of wire which will be productive of higher efficiency than can be obtained from any other diameter of wire is fairly well known, thanks to the publicity with which the introduction of the original Browning-Drake coils was attended. The statement then made, that the most efficient design entailed having the wire spaced by half its diameter is, of course, nonsense, as Glenn Browning would doubtless be first to admit in the light of fuller knowledge; the error was one that is very common—that of too readily propounding a general rule from a particular instance; however, Browning did succeed in focussing attention on the problem of increasing coil efficiency, and for this he is deserving of every credit.

To appreciate just why the diameter of the wire employed should affect the efficiency of the coil in this manner it is necessary that the reader should have some understanding of what is meant by high-frequency resistance. It will be remembered that in the writer's last paper in this series, it was mentioned that the amplification obtain-

able from a high-frequency stage depends, other things being equal, on the magnitude of a factor L/CR , where L is the inductance of the tuning coil, C the associated capacity, and R the coil's high-frequency resistance in ohms. It was pointed out that some advantage could be gained by increasing L and decreasing C , but at the cost of some slight loss of selectivity; what it is desired to stress now is that a very considerable advantage can be gained by reducing R , not only an advantage in the direction of increased amplification, but also in the direction of enhanced selectivity.

If it were desired to reduce the direct-current resistance of a tuning coil, the obvious thing would be to use as heavy a wire as could be accommodated. Studying Fig. 1, it is apparent that increasing the diameter of the wire steadily reduces the d.c. resistance of the coil. A glance at the curve labelled r.f. resistance (radio-frequency or high-frequency resistance) however, shows that there is a point beyond which any increase in wire diameter is productive of an actual decrease in efficiency (i.e., an increase in high-frequency resistance). Obviously, then, the point at which the high-frequency resistance is at a minimum represents the best or "optimum" wire diameter.

The reason for the increase in resistance which accompanies an increase in wire diameter beyond the optimum will perhaps not be clear without explanation. One factor contributing to this result is what is known as "skin-effect." When a wire (over a

certain very small diameter) is carrying a current alternating at a very high frequency, the current is not evenly distributed throughout the wire, but is carried on the outside or "skin" of the wire; moreover, if this wire is wound into a coil, the current will not

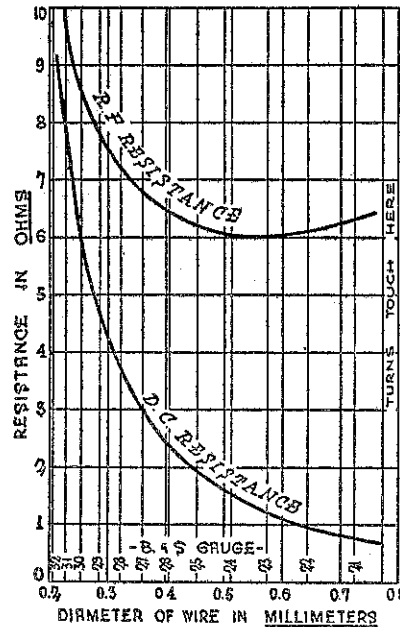


Fig. 1.—Comparison of D.C. and R.F. Resistance.

even be evenly distributed over the surface, but will crowd to the inner surface (i.e., the surface nearest the centre of the coil) of the wire; thus an increase in the diameter or area of the wire is not productive of anything like the expected effect in reducing the high-frequency resistance.

Added to this "skin-effect," however, is another factor which we may term the "proximity effect." Each turn of wire, when passing high-frequency current, has its own magnetic field, and the effect of these fields in introducing eddy current losses and current flow distortion in neighbouring turns is such as to still further increase the high-frequency resistance over the direct-current resistance. Furthermore, it will be clear that the nearer the turns approach each other (or what is the same thing, the greater the diameter of the wire) the more serious this effect will become. It is, in fact, this "proximity factor" which is the root cause of the increase in high-frequency resistance when the wire diameter is increased beyond the point we have christened the "optimum diameter."

The formula for the calculation of high-frequency resistance of solenoids takes into consideration both the effects we have just discussed, and was originally formulated by S. Butterworth, of the Admiralty Research Laboratory. It may be stated as follows:—

$$R_{HF} = R \left(1 + F + G \left(\frac{R_{nd} \sqrt{2}}{2D} \right)^2 \right)$$

Where R_{HF} is the high-frequency resistance in ohms at the particular frequency involved; R is the direct current resistance of the winding in ohms, n is the number of turns; d is the diameter of the wire in millimetres; D is the coil diameter in millimetres. To ascertain the values of the factors F and G , it is necessary first to solve the subsidiary equation

$$Z = d \frac{\sqrt{f}}{92.8}$$

where f is the frequency in cycles per second, and d , as before, the diameter of the wire in millimetres. Having figured out the value of Z , the values of F and G may then simply be read off from the charts reproduced in Figs. 2 and 3. K , the only remaining factor, is a shape factor depending on the ratio of the length of the winding to its diameter, and may be read directly from Fig. 4.

In case the method of working this formula is not immediately apparent, it is proposed to work out the resistance at 300 metres (or one million cycles per second) of a coil having 74 turns of 3-inch diameter and a winding length of 24-inch (actually the coil used for preparing Fig. 1). We will assume the wire diameter to be 0.565 millimetres, which reference to Fig. 1 indicates to be the optimum diameter.

The direct current resistance of 0.565 m.m. (24 S.W.G.) copper wire may be ascertained from a wire table to be approximately .02145 ohms per ft.; the d.c. resistance of 74 turns 3 inches in diameter will be $.25 \times 3.1416 \times 74 = 58.1$ feet at .02145 ohms per ft. = 1.24 ohms. So R is 1.24 ohms. Before finding F and G we must know Z , and this found to be

$$Z = 0.565 \frac{\sqrt{1,000,000}}{92.8} = 6.09$$

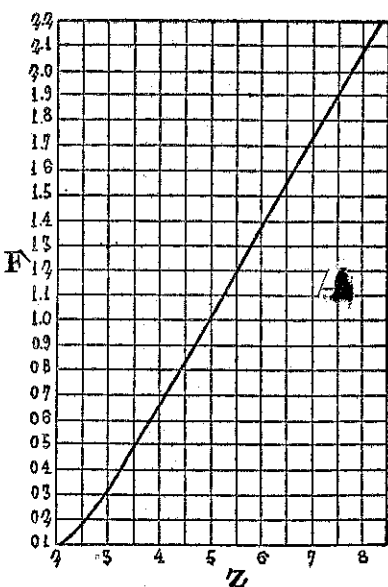


Fig. 2.—Values of "F" corresponding to "Z."

Then from Fig. 2 we find the value of F corresponding to this value of Z to be 1.43, from Fig. 3 the value of G corresponding to a figure of 6.09, for Z is .948. So F is 1.43 and G is .948.

Electric Gramophones and Parts

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58-62 VICTORIA STREET, WELLINGTON

"WHERE THE QUALITY GOODS ARE SOLD"

The ratio of winding length to diameter is

$$\frac{2.25}{3} = 0.75$$

and from Fig. 4 the value of K corresponding to this ratio is 5.9. We know n, the number of turns, 74, and d, the diameter of the wire in millimetres 0.565; the diameter of the coil, we have to reduce to millimetres—1 inch = 25.4 millimetres

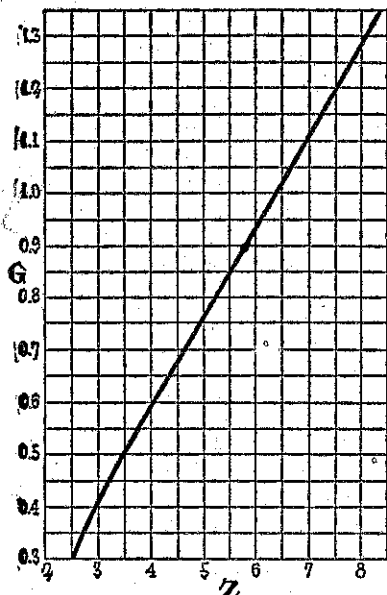


Fig. 3.—Values of "G" corresponding to "Z."

approximately, so D is 76.2; 2D will be 152.4.

We are now in a position to simplify the term in the minor bracket. The

$$\frac{Knd}{2D} \text{ becomes } \frac{5.9 \times 74 \times .565}{152.5}$$

or 1.62. This figure has now to be squared, giving a result of 2.62.

Substitution may now be effected throughout the entire equation

$$\begin{aligned} RHF &= R \left(1 + F + G \left(\frac{Knd}{2D} \right)^2 \right) \\ &= 1.24 (1 + 1.43 + .948 \times 2.62) \\ &= 1.24 (1 + 1.43 + 2.48) \\ &= 1.24 \times 4.91 \\ &= 6.09 \end{aligned}$$

Thus we have found the high-frequency resistance of this coil at a frequency of 1000 kilocycles per second (300 metres), to be 6.09 ohms, a very different figure from the direct current resistance of 1.24 ohms. Even this figure of 6.09 ohms will be increased slightly in practice by certain losses (e.g., dielectric losses and eddy current losses in screening), which will inevitably be introduced when the coil is located in a receiver. However, the distribution of these additional losses need not be dealt with here.

It will be seen that in order to determine the optimum wire diameter for any particular coil, it is necessary to work out the high-frequency resistances for a number of different wire diameters, plotting a curve like that labelled "r.f.-resistance" in Fig. 1, and reading off the diameter corresponding to the lowest point in the curve. When it is realised that this has in fact been done, albeit with the aid of certain mathematical short cuts, for three different inductances corresponding to those for which the required numbers

of turns were given in the last paper, for three different coil diameters in respect of each inductance, and for quite a number of winding lengths in respect of each coil diameter, and that the whole of these results are summarised in the little charts of Fig. 5, most experimenters will be heartily grateful that it fell to the lot of "Cathode" and not to their lot to prepare this data.

Referring to these charts, it will be seen that they correspond to those previously published giving the number of turns. Three inductances are again provided for to accommodate variable condensers of differing maximum capacity. In this connection the writer wishes to make a word of explanation. It was originally intended to publish four sets of charts for coils of 200 m.h., 280 m.h., 320 m.h., and 340 m.h., the last two being intended respectively for variable condensers of .0008 mfd. and .00025 mfd. maximum capacity. Measurements subsequently showed that the minimum capacity of a .0003 condenser was so little different from that of a .00025 condenser that the inductance of 340 m.h. was suitable for both; naturally the charts covering coils of 320 m.h. were cut out. Unfortunately, the text was not amended everywhere, with the result that one or two phrases appeared which may have rather puzzled readers in the absence of this explanation.

It must be clearly understood that the optimum wire diameter referred to in this paper is the diameter of the copper section only and that the increase in diameter occasioned by the

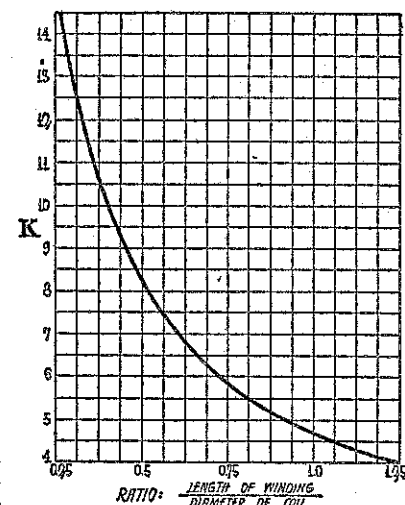


Fig. 4.—Values of "K" for Various Coil Ratios.

insulating covering of the wire must not be taken into consideration. As a matter of fact, the wire covering may frequently be usefully employed in distributing the wire over the allotted winding length. Some slight loss of efficiency will result from using this method of spacing, a better method being to use a grooved former.

It will be noted that the charts of Fig. 5, giving the optimum wire diameter, have the B. and S. gauges corresponding to different diameters noted alongside, so that the best gauge to employ can be read off directly. In New Zealand, however, most of the wire is rated by the Standard Wire Gauge, or S.W.G., which is slightly different from the B. and S. gauge. A variation from the optimum diameter of a single gauge, or even two, is not likely to affect the coil efficiency very

RADIO DIRECTORY

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- RADIOLA RECEIVERS** Chas. Bennett, Ltd.,
619 Colombo Street, Christchurch.
- RADIOLA RECEIVERS and Expert Radiola Service.** Farmers' Trading Co., Ltd.,
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- RADIO REPAIRS AND SERVICE** E. G. Shipley,
186 Manchester Street, Christchurch.
- WILCOX ELECTRIC RADIOS** Royds-Howard Co.,
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- CROSLEY RADIO** J. C. Davidson,
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- MAJESTIC, ATWATER-KENT AND RADIOLA ELECTRIC SETS** Radio House, Hamilton,
G. S. Anchor. Manager.
- PHILIPS VALVES AND APPARATUS** All Good Radio Dealers.

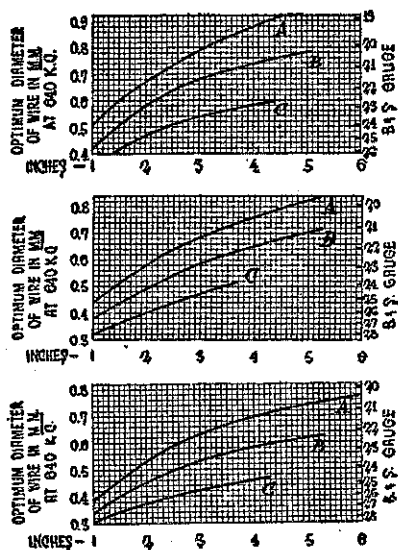


Fig. 5.
Optimum diameter of wire for coils the number of turns for which were given on August 23.

Top.—Coils of 200 microhenries.
Middle.—280 microhenries.
Bottom.—340 microhenries.
Curve A relates to coils of 3 inch diameter.
Curve B to coils of 2.5 inch diameter.
Curve C to coils of 2 inch diameter.
Winding lengths indicated along bottom of each chart.

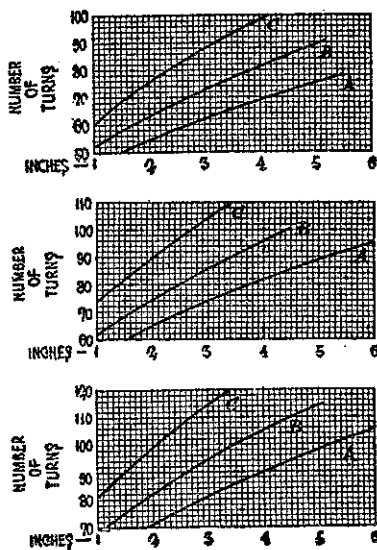


Fig. 6.
Charts referred to in diagram 5 showing the number of turns for inductance coils.

Top.—Coils of 200 microhenries.
Middle.—280 microhenries.
Bottom.—340 microhenries.
Curve A relates to coils of 3 inch diameter.
Curve B to coils of 2.5 inch diameter.
Curve C to coils of 2 inch diameter.
Winding lengths indicated along bottom of each chart.

seriously; nevertheless, it has been thought advisable to prepare a little chart giving the diameter in millimetres of all gauges likely to be used, and this is as follows:—

S.W.G.	B. & S.	Diameter in m.m.
20	19	.9140
21	20	.8124
22	21	.7213
23	22	.6126
24	23	.5585
25	24	.5078
26	25	.4570
27	26	.4062
28	27	.3555
29	28	.3300
30	29	.3046
31	30	.2800

"Doping" Coils

Renders them Moisture-Proof

IN the moist weather a coil which is "low-loss" on one day may be "high-loss" on the next, owing to the absorption of moisture by the cotton or silk covering of the wire. At one time it was thought that silk-covered wire was fairly immune to moisture effects, but careful tests show that silk absorbs moisture just as easily as the cotton covering.

It is always wise to dry the coil thoroughly after winding and to "dope" it with some suitable material. Comparatively few substances are better than celluloid dissolved in amyl-acetate. Obtain some amyl-acetate from the chemist and put it in a wide-mouthed bottle, securely corked. Remember that it is highly inflammable! Take any old scraps of celluloid and put them in the bottle with the amyl-acetate, and after a time they will dissolve.

Old photographic films from which the gelatine covering has been removed by soaking in hot water and scraping is a very good source of supply. When the solution has become fairly thick, but not so thick that it will not spread easily, take a well-dried coil and brush on the "dope" fairly liberally. This "dope" serves the double purpose of waterproofing the wire and holding it in position on the former.

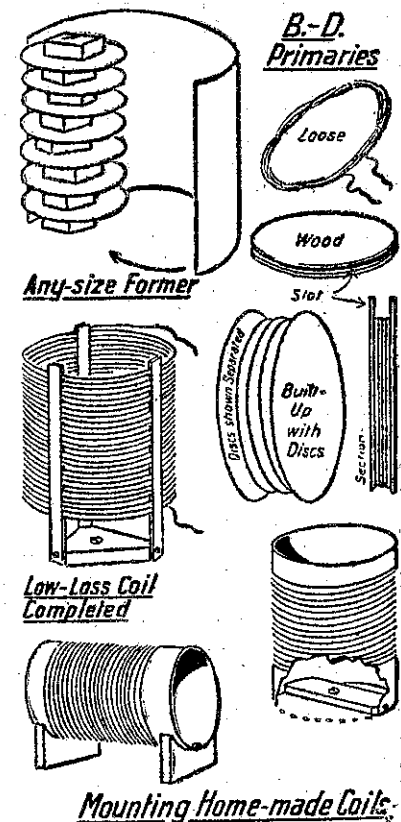
A very useful tip when winding coils on paxolin, micanite or pirtoid tubes is to paint three thick strips of celluloid solution in the direction of the axis of the coil and about equally spaced before winding is begun. Now let the "dope" get "tacky." Proceed with the winding and each turn will adhere at three points. The whole coil can subsequently be "doped."

The A.C. Browning-Drake

An Omission

ON page 36 of our special issue last week we referred to a diagram depicting the method of mounting the primaries for Browning-Drake coils. This diagram was inadvertently omitted. It is appended here with a re-description of the coils.

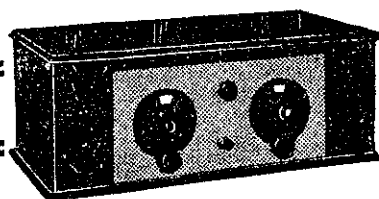
Having completed the aerial coil, leave a small space and proceed with the wiring of the regenerator. This will comprise 65 turns of 24 gauge D.C.C. wire, or 57 turns of D.S.C. If capacity reaction is to be employed tap the coil at the 15th turn from the secondary proper. Wind a further 26 turns on the end of this coil, tapping it as before at the end of the secondary winding proper. Separate both coils with a sharp knife. The primary for this regenerator is jumble wound and placed under the



Mounting Home-made Coils.

first turn of the secondary coil. It comprises 14 turns of 30 gauge D.S.C. wire. There are three typical ways of making this coil, the diameter in every case being such that the coil can be slipped inside the end of the secondary without leaving an appreciable space between the two coils, though there must be proper insulation between them, otherwise a "short" of the B

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potential may result. The three methods are shown in a diagram. One is a bunch of turns of the requisite diameter, bound together in places with twine. The second method is to build up a slotted former of cardboard, the slot round the periphery measuring barely 3-16 in. each way. The third method is to turn a similar former out of wood. Rotating ticklers are close-wound upon a short former of small dimensions; the turns should not be spaced on ticklers. There is no need to endeavour to make the tickler as large as can be rotated in the end of the secondary. A small tickler with a few more turns to compensate will give even better results.

Wireless and Talking Pictures

THE Radioscope, the invention of Mr. G. V. Dowding (technical editor of "Popular Wireless", which, it is understood, is shortly to be demonstrated before British Post Office experts, is an interesting attempt to link up broadcast reception together with the home cinema so as to produce what is, in effect, the "home-talkie."

Mr. Dowding's inventions for synchronising a gramophone and a small cinema projector were recently demonstrated in London and gave a remarkable imitation of the "talkie" in miniature. In this case the gramophone used was one of the standard portable models.

The Radioscope is a development of this type of dual reproduction in which the "talkie" part is received on an ordinary wireless set. With the home-talkie in which the gramophone is used it would be necessary to buy or hire both the film and its corresponding record to get the dual reproduction, whereas with the Radioscope it would only be necessary to buy or hire the cinema film, the single record in the B.B.C. studio being sufficient for all users within the service area of the station.

It is claimed that the introduction of Radioscope items in the B.B.C. programmes will not interfere with the normal service for those listeners who do not possess home cinema projectors.

Two-way Communications

Interesting Address

MR. E. T. FISK, Australia's greatest authority on wireless, and Managing Director of Amalgamated Wireless (Australasia) Limited, delivered an interesting address from 2FC on Sunday, September 15, from 6.40 to 7 p.m., 8.10 to 8.30, New Zealand Time, on "Bridging the Gulfs of Distance."

BEFORE the advent of cable communication, said Mr. E. T. Fisk, managing director of A.W.A., speaking from 2FC on Monday night, and in the days of sailing ships, Australia and New Zealand was extremely isolated

less message across the English Channel, which was followed soon after by the transmission of a very faint signal across the Atlantic Ocean.

The first great application of wireless communication was between the shore and ships at sea, thus destroying the isolation which had previously been the greatest handicap of the seafarer. The next step was the establishing of regular communication between Great Britain and North America, but in spite of the remarkable strides made by the new discovery, very few people could accept the idea that it would ever be possible to send a wireless message direct across the world between Australia and Great Britain.

As a result of the pioneering efforts of a very few people who had faith in the further development of this great science, not only have wireless messages been transmitted between

means as easily and clearly as we speak by telephone between Sydney and a nearby suburb.

By means of modern wireless stations, Australia can now be put into telegraphic and telephonic communication direct with any place on the face of the earth, without having to lay costly cables and by using the ether as a medium through which the electromagnetic waves travel at a speed greater than one million miles per minute.

It may safely be said that distance and isolation have been greatest and perhaps the only serious handicap to Australia and New Zealand, and the development of wireless has now arrived at such a point that distance is practically annihilated and isolation no longer exists. This means that our country of vast potential wealth can be brought into close contact with the great masses of humanity in other parts of the world, that it will be better understood, more effectively advertised, and the development of our trade and commerce will be facilitated to a far greater extent than ever before.

No other country has so much to gain from the full development of wireless communication, and Mr. Fisk considers that wireless is the greatest gift of science to Australia.

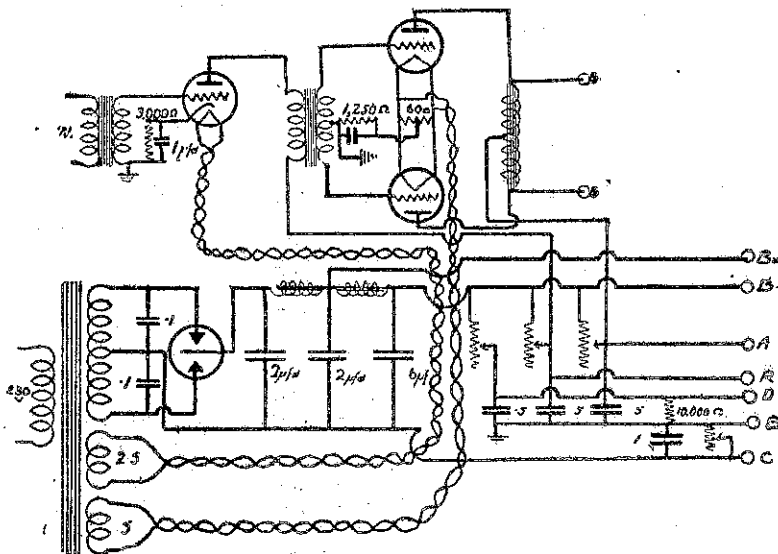
Accurate Tuning

Speaker at a Distance

IT is often a difficult matter to tune a receiver effectively in those cases in which the loudspeaker is situated in another room, or out of doors at some distance from the set. In such instances, the amateur generally brings the speaker near to the set whilst he conducts the tuning operations. Then, after the controls of the receiver are set, the loudspeaker is removed to its required distant position.

Without going to all this trouble, however, there is a very useful method of effecting the same end. It will be noted that one of the loudspeaker terminals goes to the plate of the last valve. To this terminal attach, in addition to the distant loudspeaker lead, one tag only of a pair of headphones.

Under these conditions, a comfortable volume of reception will be heard in the 'phones, and the necessary tuning can be effected in this manner. Thus, the loudspeaker can remain untouched in its distant position, but the tuning of the set can, nevertheless, be accomplished quite satisfactorily.



Telephony to Ships

THE American Telegraph and Telephone Company, which conducts the U.S.A. end of the trans-Atlantic telephony service, is to begin tests between its experimental station in New Jersey and the s.s. Leviathan with the object of establishing a telephone service between any telephone in the U.S.A. and ships at sea. If the tests are successful the service will be opened first with the Leviathan in the autumn.

Eiffel Tower.

TESTS in telephony on 49 metres are carried out daily by the Eiffel Tower (Paris) from 4.45 a.m. to 5 a.m., 8.45 a.m. to 9.15 a.m., and from 10 p.m. to 10.15 p.m. New Zealand time.

Official Gratitude to French Amateurs.

A MATEUR transmitters in France who have made important contributions toward shortwave research, are to be relieved of all wireless taxes, writes our Paris correspondent. The announcement was made at the recent conference of French amateurs in Paris.

Shortwaves from Siberia.

FOR the benefit of trappers in Polar regions, the Soviet Government is planning the erection of a shortwave station at Turukhansk, Siberia, on the edge of the Arctic circle. The transmissions will include news bulletins and weather reports.

Twin Wave Transmission in Italy.

THE high power broadcasting station now being constructed by the Marconi Company at Rome will broadcast on two wavelengths, simultaneously, viz., 254 and 80 metres. The transmissions will be intended primarily for the Italian colonies in Africa.

U.S. Test Programmes for Britain.

A NEW series of transmissions specially intended for reception in Great Britain in the early morning has been inaugurated by WGY's shortwave station 2XAF at Schenectady. The transmissions are carried out daily except Saturdays and Wednesdays according to the following schedule (giving New Zealand mean time):—

Monday, 6 a.m. to 9 a.m., 19.5 metres.
Tuesday, 5.30 a.m. to 7.30 a.m., 21.9 metres.
Wednesday, 5.30 a.m. to 6.30 a.m., 19.5 metres.
Friday, 5.30 a.m. to 7.30 a.m., 21.9 metres.
Saturday, 5.30 a.m. to 6.30 a.m., 19.5 metres.

(Readers please note that, although the

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call used is 2XAF, the wavelength of 19.5 metres is used by 2XAD and 21.9 metres by 2XO in their regular experimental transmissions.)

Saturday, September 14.

5SW opens at 5.29 a.m. with the usual announcement, which is 100 per cent. readable. On going "Over to London," readability is very poor. Big Ben is heard, talk being almost impossible. Volume quite good at R8. An organ recital at 6.15 a.m. was slightly better received.

Rapid fading was the cause of bad reception.

PCJ, although good strength, was a little mushy, caused, I think, by the German just a little higher who can be heard weakly on PCJ's wave, a very small turn of the dial bringing this station in at full strength.

At 6 a.m. PCK on 16.3 metres and Monte Grande on 15.5 metres were heard on duplex telephony. The calls were not heard, but the wavelengths were those used by these stations. The South American was R8 and the Dutch station R4-5.

W6XN could be heard very faintly. GBX, with 2ME, were testing as usual.

2XAD from 1.30 p.m. till signing off at 3.31 p.m. was excellent at R8, increasing to R9 at 2 p.m., then going down to R7 toward the finish. Howlers were bad on this station.

KDKA at R8 was spoilt by rapid fade. At 5.30 p.m. music was tuned in at R7 on 16.3 metres. Records were played without any announcement. Speech was not heard till after 8 p.m., when "Hullo, Bandoeng, here is Kootwijk," was heard. After a short time PLF replied on 16.8 metres, and duplex telephony was carried out.

PCJ at 1.30 p.m. was R3, fading to R1, strength showing increase to R9 by 4.30 p.m., remaining at that till closing time at 5.35 p.m. Reception was spoilt by static and mush.

RA97 (late RFM) was good at R9.

Sunday, September 15.

AT 9.30 a.m. KDKA was R4, increasing to R5 by 10 a.m. After this signal strength decreased to R2, after which they built up again to R8. Reception was unsteady and mushy all through.

2XAD and 2XAF were both weak (R2) at 9.30 a.m. The former increased in volume more rapidly than 2XAF, reaching its maximum and on the decline before 2XAF was full strength.

W6XN: This station was not heard till 7.15 p.m. (did not try for it). The "Musical Musketeers" entertained till 7.30 p.m., after which an hour's dance music from the Hotel Witcombe, San Francisco, was announced. Volume was R8, not so good as a few weeks ago.

Monday, September 16.

KONIGSWINTERHAUSEN on 31.5 metres (about) commenced talking at 6.35 a.m. and were still talking at 7.30 a.m. Excellent at R9, with medium static. GBX was R8, 100 per cent. readable,

but Sydney was not receiving him very well.

2ME was R9.

ZL2AX, with records, at 7.30 p.m., was received at R9. ZL2BE was even louder.

Tuesday, September 17.

5SW, at 6 a.m., a talk was in progress about 75 per cent., increasing to 100 per cent. readable by 6.15 a.m. At 7.20 a.m. a relay from Cardiff was announced by BX, R8-9, very gushy.

2ME, same strength, with a noisy background.

The German commenced just after 6.30 a.m. to R9. After a short talk an excellent relay of music was heard, strength decreasing to R7 by 8 a.m.

W6XN at R7-8, with fading and bad static, was tuned in at 6.30 p.m. The QRN spoilt reception.

2ME and GBX were both 100 per cent. readable, the English station being R8 and the Sydney transmitter fully R9.

Wednesday, September 18.

A TALK was just concluding at 5.5W when tuned in at 6.15. Readability was poor on account of a local roaring noise. Strength R8-9. Songs were heard till 6.30 a.m., during which reception improved considerably. At 6.30 a.m. they commenced a relay from the Queen's Hall of a promenade concert. The works of Tchaikowsky being featured. Reception was quite good for a time, except for gushiness. By 7.30 a.m. signals were almost smothered by a strong ripple.

2ME at 6.15 a.m. was R3, rapidly increasing to R9. GBX, R8, very good.

Some choral music was well received at R9 from the German station from just after 6.30 a.m. There was some static and slight fading. A lady of 71 years of age was heard through 2ME talking to her daughter in England during the early evening. Both sides of the conversation was clearly receivable.

VK2HM, Bondi, N.S.W., came in well at R8.

PCK, Holland, and PLF, Java, at 9 p.m. were heard working duplex. Both were very clear and steady at R8.

Thursday, September 19.

5SW.—A talk about "Forecasting the weather at R8-9 was heard from 6 a.m. This interesting talk was 100 per cent. readable, with careful listening. Surging and ripple spoilt the music that followed.

W6XN was just audible at 6 a.m., increasing slightly later.

GBX R8, 100 per cent., testing with 2ME, who were very weak at first, increasing later.

A station on about 31.4 metres was heard at R6. Static and Morse QRN spoilt reception.

The German carrier was on for some time before any talk was heard. This was received at R9.

GBX and 2ME were spoilt by static during their early evening duplex test.

Friday, September 20.

P. CJ commenced at 5.37 a.m., and continued till 7.30 a.m., with their regular transmission. Strength was good, static and surging bad.

5SW could not be heard, except for a

few moments about 6.30 a.m. Probably a breakdown.

The carrier of both 2ME and QBX were heard, but not any talk.

The German was R8-9, but static spoilt reception.

W6XN was also spoilt by static when heard at 7 p.m. Strength R7 with fading. 2ME at 8 p.m. had some lady tennis player visitors to listen to England.

QBX at R7 was spoilt by static.

On about 30.5 metres, at 8 p.m., a strong carrier with a weak foreign voice was heard.

PCK were transmitting records (without announcement till 9 p.m., when they called Bandoeng. Java replied through their station, PLF, on 15.74 metres. Both were R8, clear and steady.

On about 25.5 metres, at 10.20 p.m., at R7, talk was heard in an American voice. Rapid fade spoilt reception. This was possibly CJRX or CJA (Canada).

RA97 (late RFM) put over some splendid orchestral music, which was spoilt by static.

Successful Rebroadcast

Session for Byrd Party

THE special programme broadcast by station WGY (U.S.A.) for the Byrd Party in Antarctica on Sunday afternoon was successfully picked up and rebroadcast by station 2YA. On first going on the air at 2.30 reception was not absolutely first-class and after a half-hour spell the station switched back to the studio for selected items. However, at 3.30 the conditions were materially better and the rebroadcast was resumed and carried on most successfully till closing down time, a little after 4.30. The feature was enjoyed by many listeners, the special messages given to members of the distant party in particular serving to emphasise the wonder of radio.

FOR SALE OR EXCHANGE

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

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ELECTRIC Soldering Irons 23/6 posted, guaranteed Spare Elements 6/6. Flashlights 2/6 up. Spark Testers 2s. Royds-Howard Co., 553 Colombo Street, Christchurch.

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