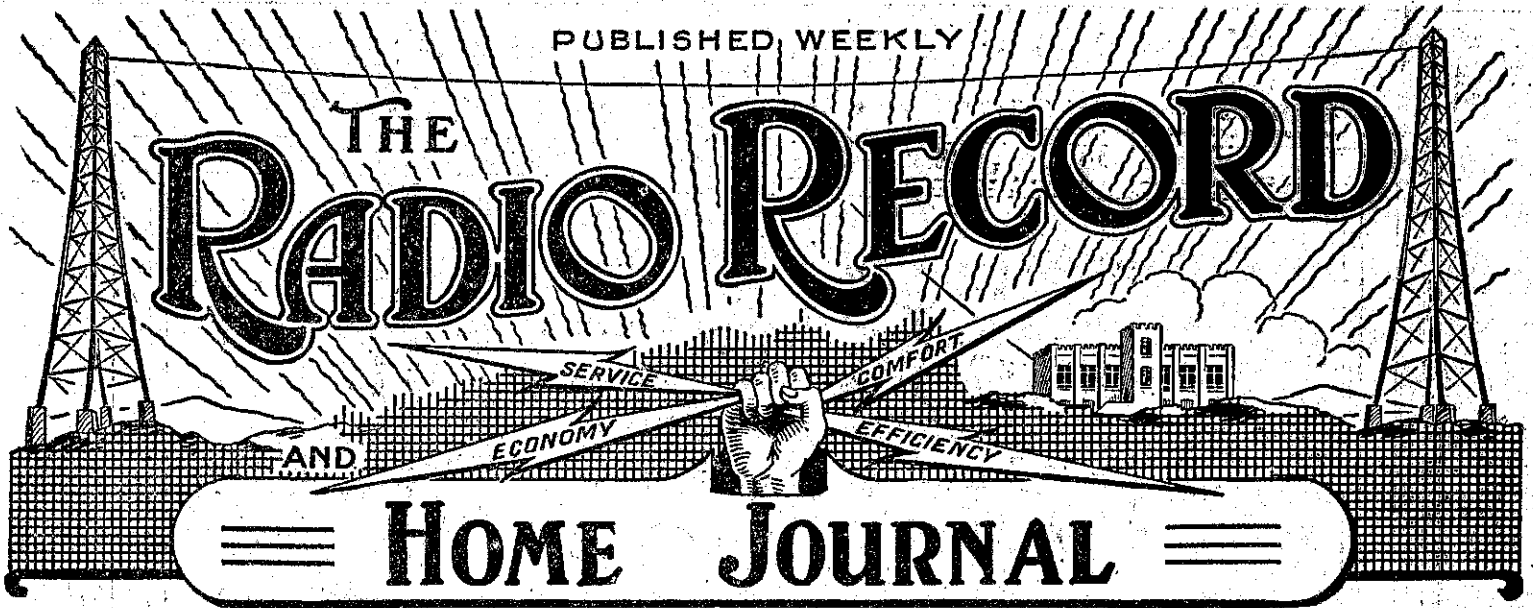


PUBLISHED WEEKLY

THE RADIO RECORD



Vol. IV., No. 51.

WELLINGTON, FRIDAY, JULY 3, 1931.

Price, 3d.

*A triumph of
British Engineering!*

RADIOLA 45E

gives the refinements of high-cost
radio receivers at sensationally low
price

Screen-Grid All-Electric;
N.Z. and Australian Re-
ception; Full-power
Dynamic Speaker; New
Tone Control feature.

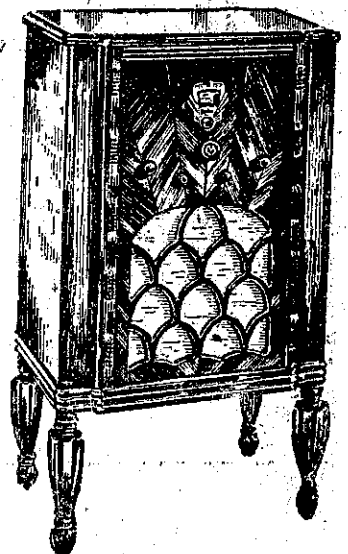
A high degree of Sensiti-
vity and Selectivity. Eli-
mination of hum—and
other features which
make for greater radio
satisfaction.

*A handsome All-British Console
at practically Midget Cost*

Amalgamated  **Wireless**
(Asia) Ltd.

P.O. BOX 830

WELLINGTON.



*Individuality and charm are expressed
in the artistically designed and pro-
portioned Console Cabinet. The
richly patterned panels and delicately
carved moulding are of the highest
grade workmanship, while the cabinet
is of specially-selected Walnut.*

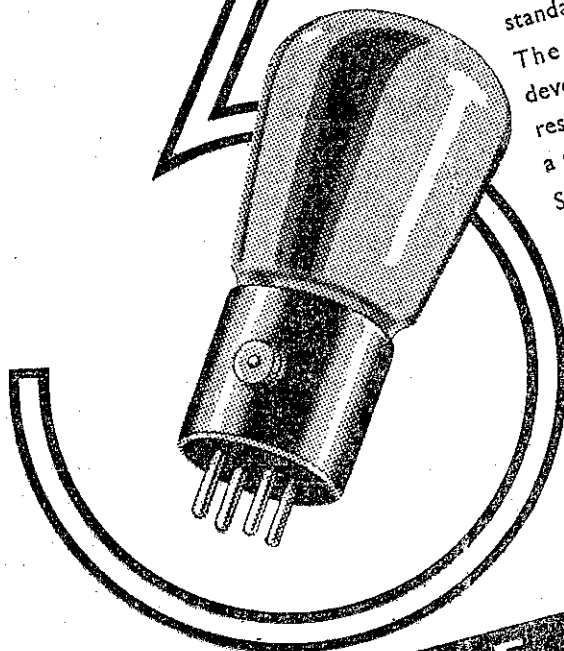
Agents:

DUNEDIN, CHRISTCHURCH,
WELLINGTON, WANGANUI,
AUCKLAND.

THE BRISTOL
PIANO CO., LTD.

PHILIPS

introduced the PENTHODE* VALVE 7 YEARS AGO



THE Penthode Valve is one of the greatest of recent radio inventions. It revolutionised receiver construction and set a new standard for quality radio reproduction.

The Penthode Valve was designed and developed during 1926/1927 in the large research laboratories of Philips Radio, and is a masterpiece of radio engineering.

Since its introduction, it has been enthusiastically welcomed everywhere. Its superiority was at once recognised, because it supplies a larger output at the same anode current energy and renders far more faithful reproduction of speech and music than any other valve. The Penthode has always been a feature of every Philips Radioplayer receiving set, and should be in all others. Buy Philips Penthodes and you'll be amazed at the improvement in power and quality.

PHILIPS ARE ALWAYS FIRST

* The word Penthode is derived from the Greek word 'penta', meaning 'five', and 'hodos', meaning 'way', so that a 'Penthode' Valve signifies a 'five-way' valve.

Advt. of Philips Lamps (N.Z.) Limited, P.O. Box 1673, Wellington. Auckland Office: Paykel's Building, Anzac Ave. Christchurch Office: 226 Tuam Street.

"CAVALLERIA RUSTICANA"

Mascagni's Celebrated Opera to be Broadcast

ON Monday, July 6, the first complete opera to be broadcast in New Zealand will be presented from 2YA by Signor Lucien Cesaroni's Operatic Company.

Speaking generally, operas are scarcely suited for microphone performance, but that chosen, "Cavalleria Rusticana," is short, melodious, simple of plot, and should appeal to all.

The scene of the opera—which incidentally will be presented entirely in English—is laid in a Sicilian village. The customs and emotional temperament of its Latin inhabitants may seem strange and perhaps a little overdrawn to us, but it must be remembered that they belong to a race which sprang from a different source from our own. To them, Anglo-Saxons appear rather stolid and unemotional.

Unlike many suddenly successful works, "Cavalleria Rusticana" continues to hold its own as one of the most popular of operas. Nor is this hard to understand. The plot moves directly and simply to its predestined end, the music is forceful and strong, intensely dramatic in feeling, and rich in harmony and orchestration. Best of all Mascagni manages to combine a good deal of straightforward melody in a score which otherwise follows the modern idea in having not set arias and ensembles.

The raw facts of the plot are so simple as to savour of everyday police court news, but the charm of the Sicilian setting, the interplay of human nature as the various characters thread out their destiny, the passionate intensity of the music, are such as to lift this tragedy of low life into a vivid and heart-searching drama.

The music of "Cavalleria Rusticana" is a happy blend of the old and the new. In its melodiousness it adheres to the older tradition. Tunes abound, so simple in character that any person with an average ear for music can readily grasp them. There are no set arias, no elaborately-arranged ensembles halting the movement of the plot while the singers display their vocal charms. The melodies occur naturally and spontaneously, and moreover they are arrayed in all the panoply of modern orchestration.

There is none of the stiff recitative of the older day. The recitative, on the contrary, is flexible and natural, giving a just musical presentment of the speaking voice's inflections with an accompaniment for the orchestra which faithfully follows the mood of the moment. Emotional crises develop, reach their climax and pass away; or again, as in the scene preceding the famous "Intermezzo," they reach a point where the lyric outburst of melody seems natural and indeed inevitable.

This flowing continuity of style is essentially modern, being one of the innovations in operatic treatment for which we are indebted to the genius of Richard Wagner. Ultra-modern com-

posers have carried the idea forward to such a degree as to practically eliminate melody in the ordinary sense of the word, but the success of their efforts is still in doubt.

The opera really begins with the Orchestral Prelude, which takes the form of a fantasia on the principal airs of the work, welded together with splendid musicianship. During the performance, however, the voice of Turiddu is heard from the curtained stage singing "Siciliana," one of the most popular airs in the whole work. It is a love song pure and simple, but in its long-drawn cadences, its darkly-coloured harmonies, is some hint of the tragedy which is the consummation of Turiddu's love for Lola.

* * * *

IT is Easter Day, a festival that means as much to the Sicilian as Christmas to us. Moreover, it is springtime, and the air is fragrant with the odour of orange blossoms, and the lark rises singing from myrtles in full bloom. The warm beauty of the day is eloquently suggested in the opening chorus, "Gli Aranci Olezanno" ("Blossoms of Oranges").

During its progress the curtain slowly rises, showing the people of the little village crossing the square to enter the little church opposite the inn where Lucia, mother of Turiddu, plies her trade. No sooner has the happy crowd entered the church than Santuzza appears and calls for "Mamma Lucia." "What is it?" asks the old woman, coming from the house. "Where is Turiddu?" questions the girl. Something in her manner warns Lucia, and she evades a repeated question with, "Do not ask me. I don't know. I want no trouble." But Santuzza pleads, asking her to be merciful. This leads to the "Dite, Mamma Lucia" ("Tell me, Mother Lucia").

LUCIA replies that Turiddu has gone to Francofonte for wine. "No," declares Santuzza, "someone in the village saw him last night." The older woman's suspicions are aroused, and she invites the girl to enter; but this the unhappy Santuzza cannot do. In this little Sicilian village the moral code is strict, and she is an outcast, excommunicated for her sins. "What of my son?" questions the mother; but before

Santuzza can reply the cracking of whips and jingling of bells announces the arrival of Alfio, the carrier, who presently enters, followed by the crowd. He sings the "Il Cavallo Scalpita" (The Sturdy Steed), a vigorous description of a carrier's career. The lively rhythm and swift changes of harmony are particularly exhilarating, and this number is one of the most brilliant in the opera.

Alfio has every reason to be
(Concluded on page 2.)

Cast:

<i>Santuzza (soprano)</i>	<i>Eunice Standen</i>
<i>Lola (soprano)</i>	<i>Janet Stirling</i>
<i>Lucia (contralto)</i>	<i>Mrs. H. Maplesden</i>
<i>Turiddu (tenor)</i>	<i>Ray Trevern</i>
<i>Alfio (baritone)</i>	<i>George Gray</i>
<i>The Sacristan (baritone)</i>	<i>Owen Pritchard</i>
<i>Chorus of Sicilian Peasants.</i>	

happy, for as a public carrier he possesses much prestige and he thoroughly enjoys the life. Moreover, is he not the husband of the beautiful Lola? All his simple satisfaction bubbles over in this number, the latter part of which is given over to his joy at returning home for Easter and the welcome that awaits him from his adored one. He has no suspicion that a few hours earlier another man has been likening the lips of the dusky Lola to crimson berries. The chorus joins gaily in his lively music, and afterward disperses, some into the church and the rest about their business. Alfio among them.

The gaiety of Alfio's song gives place to the Easter music, the "Regina Coeli" (Queen of the Heavens), and the "Innegiamo al Signore" (Let us sing before the Lord").

This Easter music is exceptionally rich in melody and harmony. Its tranquil beauty and sanctity of feeling deeply emphasises the part religion plays in the lives of these simple pastoral people. There is splendid breadth and dignity in its familiar tune.

With the departure of Alfio and his admirers Santuzza and Mamma Lucia are left alone again, and Santuzza pours out her sad story into the kindly ears of the sympathetic Lucia. Before Turiddu went away to serve his time in the army it appears he was in love with Lola, who seemed to return his love, but when his time was up and he returned to the village he found Lola married to Alfio. To console him-

self Turiddu made violent love to Santuzza, who yielded to his ardour all too completely. Now it seems Turiddu is again paying court to Lola, who receives him with favour, and Santuzza finds herself doubly disgraced by his desertion. The story of Santuzza is set forth in the "Voi la sapete" (Well, do you know, good Mother).

This is one of the most powerful and beautiful numbers in the opera. Lucia is not wholly surprised but deeply grieved. She looks with foreboding upon the future, and does her best to console the unhappy girl who pleads for her prayers in the "Andante, O Mamma" (Implore your God to save Me).

Lucia tries to comfort her, remaining patient even when the frantic Santuzza threatens vengeance against her son. Then even Santuzza's mood softens as she thinks of the love she has lost. Lucia leaves Santuzza to enter the church, and a moment later Turiddu himself enters. Then follows the duet "Tu qui, Santuzza?" (Thou here, Santuzza?), in which the two quarrel violently.

Santuzza explains that she has come to see his mother, and then confronts him with the fact that he did not go to Francofonte as he was supposed, but instead to Lola. Turiddu accuses her of spying on him and is soon beside himself with anger. Santuzza insists that he has been seen by Alfio, Lola's husband, himself, but Turiddu

refuses to listen, taunts her with jealousy and ingratitude, bidding her to leave him. They are interrupted by the sound of a woman's voice singing from behind the scene as she approaches. It is the unsuspecting Lola on her way to church, expressing

"The Real Q"

A One-act Mystery
Play
From 2YA, July 9.

Characters:

The Doctor Kenneth Aitken

The Detective Hedley Aitken

The Thief Norman Aitken

Scene: Dr. Cornish's Office, New York.

her love for Turiddu in the lovely "Fior di giaggiolo" (My King of Roses).

She enters and grasps the situation at a glance. The two girls converse with thinly-veiled irony. The embarrassed Turiddu contributes but little. Finally Lola proceeds to church and invites her lover to follow. Santuzza claims him, however, and they continue their former quarrel. This is carried on in one of the loveliest numbers in the entire work, the "Ah, No, Turiddu, rimani!" (No, Turiddu, remain). The melody is tender and pathetic, rising to a great climax as the distraught girl begs Turiddu to return to her. Violently angry, he refuses and hastens into the church in pursuit of Lola. Santuzza yields herself up to despair, but is aroused by the arrival of Alfio. Another dramatic scene ensues, in which Santuzza tells all she knows. At first Alfio finds it hard to believe Lola's guilt. His anger is immediate and passionate—"If thou art lying I will have thy heart's blood," but in the end he is convinced. He breaks out again with sudden fury against Turiddu and Lola, and they go out, leaving the stage empty, while the beautiful "Intermezzo" is played.

The calm serenity of this music and the peaceful scene upon the stage are in sharp contrast with the highly-charged scenes of a moment ago and that which is to come. It provides a moment of relief for the which the audience is thankful and serves to emphasise the devout religious spirit of the Sicilian peasants, despite their hot-blooded conduct in human affairs.

This exquisite interlude with its heavenly melody at the end is doubtless the most familiar single number in the entire work and is complete in itself. Not only is the melody beautiful but the harmony is rich and the orchestral scoring with its fine contrasts of woodwind and strings is a beautiful piece of musical tone painting.

As the strains of the "Intermezzo" dies away the people begin to leave the church, and soon a merry crowd are assembled outside the inn of Mamma Lucia. They sing "A casa, a casa" (Now homeward), a lively chorus which prepares the way for the Brindisi—"Viva, il vino spu meggliante" (This is a lively number, in striking contrast to the prevailing tragic tone of the opera. It has a most fascinating swing and is full of life and colour. It is sung by Turiddu as if he had

not a care in the world, though perhaps his gaiety is a trifle hysterical for the end is already at hand. As the "Brindisi" draws to a close Alfio approaches in time to see Lola drink in response to Turiddu's toast. Watched with tense interest by the assembled crowd, the latter offers Alfio a glass of wine, "Ah, voi tutti salute" (Come Here, Good Friend), sings he.

To the horror of Lola, Alfio scornfully refuses. Turiddu, still in a mood of bravado, pours the wine carelessly on the ground and the peasants, realising the situation, withdraw, leaving the two rivals face to face. A challenge is quickly given and accepted, and the men arrange to meet in the garden. Now follows an affecting scene, in which Turiddu bids farewell to his mother in the "Addio alla madre" (Turiddu's farewell), and the "Mamma quel vino e generoso" (Too much Wine, my Mother)—Turiddu's farewell continued and the finale of the opera.

Without explaining the details Turiddu pretends to have been drinking and declares the wine cup to have passed too frequently among his comrades. He must go away, he says, and he would bid his mother farewell. Lucia is not deceived. His distraught manner, the passionate tenderness of his farewell, tells her more than she can say, and she watches him horror-stricken as he tears himself from her arms and rushes away, first bidding her take care of Santuzza.

There is but little more to tell. Santuzza enters and throws her arms about Lucia. People crowd about them and soon a woman comes running with the cry "Neighbour Turiddu is murdered." Several other women rush in terrified. Santuzza falls screaming and Lucia is supported by other women in a fainting condition. The curtain falls rapidly as the crowd gathers round the unhappy pair, and all is over.

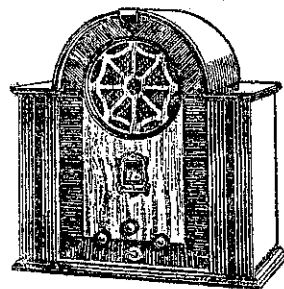
DO NOT BE MISLED!

Hear the Latest...

PILOT

Electric De Luxe Receiver

£28/10/- Complete



This wonderful Receiver has the best tone and is the latest in all respects. Distant stations are received with ease, and the advanced circuit uses the amazing principle of tone-control by means of which you can actually change the tone to suit your own taste.

TERMS ARRANGED. We carry our own agreements and do not discount outside. Your arrangements with us are strictly personal and Confidential.

20-Page Illustrated Catalogue FREE.

Harringtons N.Z. LTD.

40-42 WILLIS STREET (P.O. Box 738), WELLINGTON.
148 LICHFIELD STREET, CHRISTCHURCH.
142 QUEEN STREET (P.O. Box 1484), AUCKLAND.

RIVALS



ARCTURUS
BLUE LONG LIFE VALVES
ACT IN 7 SECONDS

For SCREEN GRID and ALL OTHER A-C Sets

Obtainable at all good Radio Dealers.
Factory Representatives: RADIO LTD.,
Commerce Building, Anzac Avenue,
Auckland.

Government Control Not Wanted



VIGOROUS protest against the declared intention of the Government to take over the control of radio broadcasting from the Radio Broadcasting Company of New Zealand, Ltd., combined with a certain amount of criticism

of the company, was made by speakers at the annual meeting of the North Taranaki Radio Society.

After discussion the following motion was passed: "That in view of the announcement by the Postmaster-General that the Government intends to assume active control of radio broadcasting in New Zealand, this meeting records its emphatic disagreement with such a proposal and urges that as the present licensees have pioneered the service up to date they be given an extension of their license for a further period, after which the position could be reviewed if necessary."

"The intention of the Government is not yet clear," said Mr. F. T. Davis, president of the society, in moving the motion, "since nothing has been put forward beyond a statement that the Government will take over the control of radio broadcasting. It is felt the proposal is not in the best interests of radio broadcasting in New Zealand. Broadcasting is not the kind of thing the Government will be successful in running. Government activities indicate that their control of broadcasting will become stereotyped, and in broadcasting the Government would probably get out of touch with public needs."

"Ever since the Government's proposal has been known I have given it deep consideration," said Mr. E. J. L. Payne, vice-president of the society, seconding the motion, "and I can see no good reason for the change. The proposed scheme will not be any better than the present. Entertainment is beyond the scope of the Post and Telegraph Department, which is overburdened already."

"Playing With a New Toy?"

"THE financial position is unsatisfactory and retrenchment is the order of the day. Why should the department seek to dabble in an expensive service such as broadcasting? Is it merely the desire to play with a new toy?"

The time was not opportune for such a change, Mr. Payne continued. The department could better serve the interests of listeners by entering into a new contract with the Radio Broadcasting Company. It should give the company a freer hand and encourage it to set up relay stations such as the Government proposed to do. The public was tired of being experimented upon. The company was willing to give listeners a good service, and he would not like to exchange the present service for a departmental one.

In the early days of the society, said Mr. C. H. Croker, it would be remembered there was criticism from various directions upon the control of broadcasting. The matter was still in the air, and the Government proposals had not yet been heard. He thought it would be rather premature to take action at present.

Taranaki Radio Society's Decision

AT the annual meeting of the North Taranaki Radio Society, a powerful body of Taranaki listeners who control 2YB, a motion, in no uncertain terms, was passed objecting to Government control. "It is merely the desire to play with a new toy," summed up one member. The opinion of the meeting was that the R.B.C. be re-licensed and given to understand that service extensions were required.

Mr. J. A. Pigott: It is better to let our wants be known now than to try to obtain redress after the alteration has been made.

Mr. A. Dunkley reminded the meeting that the views of the department had not been heard and that the question would be one of the first to be discussed in the coming session. It was the general opinion among a certain class in the country which was interested that when the proposal of the Hon. J. B. Donald was put forth the Radio Broadcasting Company would respond with a better service.

If the company were allowed to carry on the service would remain constant. As it was they were getting the service improved after the company had been "shaken up." He did not think the Government would take over the control of broadcasting. Those present should be guarded in passing a resolution which might not be the opinion of the rest of the society.

Reception of YA Stations.

"THERE is one thing," Mr. Dunkley added, "and that is that we should urge the Radio Broadcasting Company

to give a better service. There is no doubt it has done the pioneering, but the Wellington station is far from satisfactory from Taranaki's point of view, Auckland is patchy, and Christchurch is the only one we can rely on to receive with any degree of clarity, and that is subject to fading. Improvements by the company have not been commensurate with the increase in the number of licenses issued. We should not praise the company too much."


Mr. R. Day asked if the Government had "done its job yet by cutting out howlers."

The experience of the society had been, Mr. Davis replied, that the Government officers had been only too pleased to assist. The Government did not receive much from the license fees and it was not to be expected it would do a great deal.

Mr. I. W. B. Roy considered the society should support the motion. The service in the past had not been all that it might have been, but there was one aspect to be considered. "If the Government takes over control," he said, "there will be no guarantee of any improvement in the service. If an extension of the license is granted the Radio Broadcasting Company, the company will be faced all the time with the possible seizure of control by the Government. That fear should be a spur to the company to give improved services."

The president said it was true the society had started because of dissatisfaction with the service provided for this district, but that dissatisfaction was not the fault of the company. It was caused more by faults in the mechanical side due to natural causes and not necessarily by the quality of the programmes. He agreed that the company had had to be pushed at times before it made improvements and that state would continue, but its lease of life had been only temporary, and it would have been foolish for it to undertake extensions and incur a large expenditure when it might lose control in a short time. If the license were renewed for a short time the company would still feel doubtful of the security of its tenure.

Mr. Roy, the president thought, had hit upon the weak spot in Government control. It would be a very hard job to move the Government once it had control. Every argument was in favour of keeping control out of the hands of the Government. The operating side at least should be in private hands.



The WATERFALL

A
One-
Act
Radio Play

Written by
Marie Gaudin

And produced by
Zoe Bartley Baxter

at IYA,
Wednesday, July 8.

Being
an Incident
in
New Zealand
Bush Life.

A. J. PARK & SON

Patent Attorneys

Routh's Buildings,
Featherston Street,

WELLINGTON

The New Zealand Radio Record

—AND—

Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032. WELLINGTON.

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

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

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

RADIO PUBLISHING COMPANY OF NEW ZEALAND, LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, JULY 3, 1931.

GOVERNMENT CONTROL OF BROADCASTING.

AT its annual meeting the Taranaki Radio Society wisely devoted some time to a discussion of the future of broadcasting. Taking the announcement of the Postmaster-General that the Government intended to make itself responsible for the broadcasting service, one speaker tabled a resolution to the effect that the meeting record its emphatic disagreement with the proposal for Government control, and urge that the present company, which had pioneered the service up to date, should be given an extension of its license for a further period, after which the position, if necessary, could be reviewed. The discussion which followed promulgation of this motion showed that the meeting was seized not only with the stringency of the present economic position, but with the undesirability in general of the Government making itself responsible for such a delicate and intricate thing as a broadcasting service. The president of the society, Mr. F. T. Davis, said that, after mature consideration, he felt that the proposal was not in the best interests of listeners, as broadcasting was not the kind of thing in which Government control was likely to be successful. Its activities would tend to become stereotyped and out of touch with public needs. These views were endorsed by Mr. E. J. L. Payne, vice-president of the society, and by a number of other speakers.

THE tribute to the pioneering activities of the Radio Broadcasting Company, and the service it has built up, comes with appropriateness from Taranaki. It will be remembered that, owing to geographical and physical factors, reception in Taranaki of 2YA never has been of the best, and after a period of agitation the local radio enthusiasts were successful in forming a local society to establish and control 2YB, with co-

operation and assistance from the Broadcasting Company. This was an effort to give service in the Taranaki area and conquer the disability referred to. That development has achieved a degree of efficiency which is commendable, and 2YB has established for itself a praiseworthy reputation in the Taranaki area and even further afield.

WE believe that the views so strongly expressed at the annual meeting of the Taranaki Society are generally held by the majority of listeners. Government control is, in our opinion, definitely not wanted, either by the radio trade or by listeners. This is not to say that the existing service gives 100 per cent. satisfaction to everyone affected. That is not so, and never will be so. Owing to its very nature, broadcasting is peculiarly subject to criticism. Tastes differ. Requirements vary, and moods change. Matter which would please one listener one night will not interest him another. Apart, therefore, from the variability of human nature as between individuals, there is the variability of the individual himself. All those factors mean that he who runs a broadcasting service must recognise the impossibility of satisfying all the people all the time. All that can be striven for is the objective of supplying a broad, comprehensive service on definite lines, calculated to give a major degree of satisfaction. That, we believe it is recognised, the company has aimed to do, and in that recognition, and with the company's greater responsiveness to the needs of the service, we think listeners in general would prefer to see arrangements made for the continuance of the service under private control, than for the Government itself to intrude into what is to it a largely unexplored and unknown field. Certain conditions calculated to effect steady improvement may rightly be emphasised by the Government, but in our present circumstances more beneficial results are likely to accrue for listeners by private control than by Government control.

Rotarians to Rotarians Cable Ousted by Radio

An Across-the-World Broadcast

AT 10.30 (New Zealand time) on the night of June 25 the Rotarians of Schenectady (New York) and Melbourne (Australia) were in fraternal and harmonious contact per means of radio. A Rotary breakfast in Schenectady at 7 a.m. corresponded with a Rotary supper in Melbourne at 9 p.m. (Australian time), and the broadcast of the very interesting proceedings was carried out by Station W2XAF, Schenectady, and Station VK3ME, Melbourne, respectively.

President Smythe, of the Schenectady club, opened the proceedings with a cordial address to the Rotarians assembled in Melbourne and those of their fellows who were listening-in throughout the world, after which there came a song of greeting by members of the club, followed by the singing of "Maryland, My Maryland."

Then the announcer at Schenectady informed the Melbourne Rotarians that they would like to hear them sing. New Zealand listeners who were tuned in to 2YA, which carried out a very successful rebroadcast, were unfortunately unable to hear the response to this request, owing to a Morse station crashing over the wavelength of 3ME.

Following the Melbourne song, a speaker at Schenectady expressed in felicitous terms America's sympathy with Australia in the troubles she was experiencing, and their good wishes for a speedy recovery therefrom, concluding with "Good-bye, good luck, and God bless you all."

The Schenectady High School Band, of sixty strong, then played a selection, after which both clubs, though a world apart, joined in singing "There's a

On Indo-European Route

WIRELESS, which is usually given a halo of romance, was actually responsible for the termination of a romantic episode in Empire history, when several months ago the Indo-European cable route was closed. This 6000-mile line, running from London to India, has been rendered unnecessary by the efficiency and cheapness of the beam wireless system. It was opened for service in 1870, and since then many lives have been lost in the perpetual "war" against brigands, rioters and other influences tending to break the chain.

Regular Television Programmes

FROM April 1 regular television programmes, synchronised with sound, were made available through stations WGBS and W2XAR to listeners in New York City. A standard 60-line system with 20 pictures per second, which has been found to give comparatively excellent reproduction, is used, and will in future be adopted by American television stations already in existence.

Long, Long Trail." The speakers on both sides voiced sentiments expressive of a warm desire for world peace. "The Washington Post," played by the Schenectady High School Band, brought the unique proceedings and a most interesting broadcast to a close.

BANG!

What's that? A Fuse? No, it's just the latest "Lyratone" Radio Set

BLOWN IN

to Palmerston North City.

SHE'S THE DANDY OF THEM ALL.

DON'T buy a radio until you hear the LYRATONE—true to its name—Radio Set.

BARRINGERS' "LIVE" RADIO DEALERS,

Exide Battery Service Station,

52A RANGITIKEI STREET, PALMERSTON NORTH.

Phones 7397-8407.

Wholesalers: CRAWFORD & FINLAYSON, LTD., Wellington.

Broadcasting for the Disabled

Testimony of the Blind

THE pleasure derived from the programme broadcast from 2YB, New Plymouth, by those who because of disability are prevented from attending public entertainments was evidenced by a letter received by the North Taranaki Radio Society from a New Plymouth resident who is both blind and crippled. "I am writing to express our regrets at not being able to be present," read the letter, "and to congratulate you on the wonderful work done by your society and the staff of 2YB. We have enjoyed practically all the sessions during the past year. We should also like to suggest the advisability of getting in touch with all new set-holders both 'over the air' and, where possible, with personal interviews, telling them the necessity for becoming members of the society. I was speaking recently to a new set-holder who had not even heard there was such a society in New Plymouth."

Church Services for 2YB

Installation Almost Complete

THE broadcasting of church services from station 2YB, New Plymouth, has been under consideration for some time, but arrangements are nearly completed with three churches and it is expected that Sunday evening services will be "on the air" within a short time.

The services held in St. Mary's Church, Whiteley Memorial Church, and the Baptist Church will be heard in turn, and a service will be broadcast every Sunday. Each church has been connected by a land-line to the post office, from which the station's own line runs to the studio.

There are points for two microphones in St. Mary's Church, but only one microphone will be used in the other churches. Portable microphones will be used, and an amplifier to raise the volume above the noise level of the land-line.

A special committee consisting of the Revs. C. Eaton and F. A. Parry, Messrs. I. W. B. Roy, J. A. Pigott and F. T. Davis has been set up to take over the administration of the church services, including the children's session.

Cricket Results

Sunday Morning Broadcast

IN order to apprise cricket enthusiasts of the position at the close of play in the Test match, England versus New Zealand, 2YA went on the air at approximately 10 a.m. Sunday, and continued with records until the results were to hand. The station was broadcasting for approximately three-

quarters of an hour, and during this time, several times announced the score. This extra little service was greatly appreciated by both country and city listeners.

At the time of going to press, arrangements have been made for the re-broadcast of G5SW's summary at the close of play on Monday and Tuesday. This will be 5.30 a.m. on Tuesday and Wednesday, New Zealand time.

Toc H

Broadcast Service

A TOC H service of thanksgiving at St. Paul's Pro-Cathedral at 3 p.m. on Sunday, July 5, will be broadcast by 2YA. The preacher will be the Rev. Canon Percival James. The service will be in memory of Captain William Henry Dillon Bell, M.P., son of Sir Francis and Lady Bell, to whom the Toc H Wellington branch dedicated their lamp of maintenance. Captain Bell was the first member of Parliament to volunteer and the first to make the supreme sacrifice.

Toc H in war-time was "Everyman's Club," whose motto, "All rank abandon ye who enter here," brought officers and men alike into friendship in-

My Radio

*Little brown box! you sit so quietly yonder,
Your dials seem to wreath in friendly smiles.
How can there be in you, so small, the power
To bring me music from a thousand miles?*

*Ah! tell me not you are but wood and metal,
Mere coils of wire, and metal plates and screws.
You are alive, and fare forth through the ether
To earth's end, and return to bring me news.*

*The house is silent, and the fire burns low,
The outer world, as well, is hushed and still.
You seem to call me, "Listen! I will tell you
Tales that would make a sluggard's heart to thrill."*

*I take the 'phones. You are my magic window
Wherein I scan the lives of other men
Who, distant from me, far across the ocean,
Swim for an instant through my magic ken.*

*Sometimes I put the light out, and in darkness,
Save where your valve-glow lights upon my face.
We sit alone, just you and I, and listen.
To voices from the void of boundless space.*

*Should swift disaster fall, whate'er the distance,
The news comes straightway o'er the trembling air;
Where it has happened, what the loss or slaughter,
Can we send help, and how, and when, and where?*

*Sometimes you tell me of the deeds of heroes,
Deeds that will rank with Raleigh, Nelson, Drake,
And from my fireside I may glimpse the glory
Of great deeds, grandly done, for honour's sake.*

*So, with caressing hand, my magic casket,
I close your lid, and quench your glowing light.
And there you take your rest, my trusty comrade,
Till we fare forth again to-morrow night.*

—W.H., Gisborne.

respective of class or creed, who mounted from the welcome of its open door to the hallowed communion of its upper room. It was started again on a modest scale in 1919-1920 in order to recapture the war's spirit of comradeship in common service, and to pass it on to the younger generation for the greater task of peace.

Two years from this beginning, the tiny experiment had been repeated throughout the length of England, and within five years it had girdled the earth and overleapt the bounds of the British race. It now has 841 branches scattered throughout the world.

From the first, Toc H has tried to be a family whose members—whether attached to a Christian denomination or not—endeavour to live their lives according to Christian principles and "to challenge their generation to seek in all things the mind of Christ." The ideas underlying Toc H are as old as history itself—fellowship and service. Each member in Toc H pledges himself to fellowship with other men and to the service of those less fortunate than he.

Its members are drawn from all ranks of society, from all Christian denominations, all schools of thought and political parties, for it is not primarily an ex-service society, but a club for every man, in which youth now takes the greater part. Toc H remembers the past, but looks forward to the future in hope and confidence.

Broadcast Jottings

ON MONDAY, July 6, 1YA will be on the air all the afternoon for the purpose of broadcasting the results of the Taumarunui Racing Club's meeting, which is to be held at Ellerslie.

On Sunday, August 30, the whole of the evening will be devoted by 3YA to a relay from Ashburton—children's song service, Methodist Church service and a concert by the Ashburton Silver Band.

Both 3YA and 4YA will broadcast a concert from Waimate on Sunday, July 12. Listeners who recall the concert

A CONCERT, to be given by the Otago Mounted Rifles Band, is to be broadcast by 4YA and 3YA on relay from Oamaru on Sunday, August 9.

relayed from this flourishing South Canterbury town last year will look forward to another excellent programme. The town boasts a first-class band.

Two programmes—on Sunday and Wednesday evenings—are now being relayed weekly from 2YA to 2ZD, Masterton. In this matter the Masterton Radio Listeners' Club (of which Mr. G. C. Holmes is the secretary) is acting in co-operation with the Broadcasting Company.

Association football matches are being broadcast by 4YA, Dunedin. The announcer is Mr. W. Dow, of the "Otago Daily Times" literary staff. In Christchurch on July 27 the first of the Chatham Cup matches will be broadcast by 3YA. The narrator will be Mr. H. W. Huffadine, of the "Sun" literary staff.

A Scottish singer, Mr. James Smith (bass), who is making his first appearance at 3YA on Friday, July 3, was a member of the Philharmonic Society, Aberdeen, and was on active service with the Gordon Highlanders.

A debate is being arranged between the Christchurch W.B.A. and the Dialectic Society of Canterbury College. It will take place in 3YA studio next month.

Mr. Frank Milner, C.M.G., rector of Waitaki High School, is to broadcast from 3YA on July 24. He is to speak on the youth movement in Germany.

A reference of Elijah by the Christchurch Royal Choral Society is to be broadcast by 3YA on August 5.

Toward the end of July, 3YA listeners can expect to hear "The Duchess of Kensington" as presented by the Christchurch Harmonic Society.

If You want to get Ahead

—the International Correspondence Schools can help you do it, no matter how small your capital may be, or how limited your education.

One hour a day of spare time, spent with the I.C.S. in the quiet of your home, will train you for the position you want, in the work you like best. Put it up to us to prove it!

Building Contractor, Electrical Engineer, Business Manager, Automobile Mechanic, Advertising, Plumbing.

HUNDREDS OF COURSES TO CHOOSE FROM.

The International Correspondence Schools (N.Z.) Ltd.

1822 WAKEFIELD ST., WELLINGTON

A VERY successful year in which the North Taranaki Radio Society had improved its position from an almost dying condition to a very flourishing position was reported at the annual meeting of the society held at New Plymouth Tuesday last. Mr. F. T. Davis (president) presided over a good attendance.

The work of the society, said the report, had proceeded smoothly during the year and its main activities had been concerned with the running of station 2YB. As a result of the enthusiasm displayed at the last annual meeting the society was able to avoid, as then seemed inevitable, the closing down of the station. The society was, on the contrary, able to move into its present premises more or less free from financial anxiety and consequently to continue the service to listeners which it had been the aim of the society to provide.

Sports relays were a feature of the service last winter and would be continued during the present season by the courtesy of the Taranaki Rugby Union. Arrangements were practically complete for commencing broadcasts of the Sunday evening services from several churches, and an announcement would shortly be made. Saturday night dance programmes were a feature last winter, and a similar service had been arranged for the present year.

The society expressed its thanks to all who had extended their assistance to it during the year and expressed the hope that the interest and goodwill of the public would be sustained during the coming year.

The Financial Position.

THE balance-sheet showed receipts totalling £397/2/6, and expenditure totalling £352/8/6, leaving a credit balance in hand and in the bank of £44/9/6. The society's assets were set down at £254/9/8. The receipts included subscriptions £91/7/6, donations £138/4/4, subsidy from Radio Broadcasting Company £91/13/4, and the expenditure, relay lines, etc., £38 13/8, furniture and fittings £105/11/10, purchase of plant £45/19/9, rental of studio £68/15/6.

Moving the adoption of the report and balance-sheet, the chairman recalled that at this time last year the society was on the verge of dying, but great enthusiasm was shown and a large accession to the membership followed a drive that was made, so that the society was able to take over

A Successful Year

North Taranaki Radio Society Reports Good Progress

new premises. The support received in money was not the only support, but great help had been received in the furnishing of the studio. Now the studio was second to none in Australia and New Zealand for stations of the class.

The new station was opened by the Mayor, Mr. H. V. S. Griffiths, on July 14, 1930 and had since given service with which all had been satisfied.

Changes in Staff.

MR. G. CHAMPION, sports recorder, had notified his intention of resigning during the year, but had agreed to carry on until he could be replaced. The society was fortunate in being able to obtain the services of Mr. J. S. King, who was well qualified to undertake the work.

Last year, Mr. Davis said, the society had instituted a series of dance programmes and arrangements were made for records to be supplied by dealers in the town. The dealers had done so, but the difficulty was that they were not all prepared to make up the list of programmes. The position had been changed this year by placing the control of the supply of records under one firm, Messrs. W. H. Nimmo and Sons. The society was indebted to the services of the Misses

Banks for their assistance with the use of records for broadcasting.

THE REV. R. B. GOSNELL, who was conducting the children's sessions, found last year he could not carry on with the work. Thanks were due to him for what he did. The Rev. F. A. Parry took over the children's session, and the society should express its appreciation of what he had done. Mr. A. B. Macdonald found it necessary to resign from the position of programme director and was replaced by Mr. Edmondston, who now also had to resign. Mr. H. Morey, station pianist, had intimated his willingness to take over the control of station programmes. Mr. W. R. Johns, who announced on Sunday nights, was unable to continue his work, so some rearrangement in the staff of the station would be necessary.

He would like, said the chairman, to tender on behalf of the committee thanks to those mentioned, to Mr. P. Fairbrother for his work at the station each night, and to all those who had volunteered for extra relay work outside the station. Interest in the station had been very great during the year, and he would express the society's appreciation of all who had assisted.

Mr. A. Dunkley, in seconding the motion, expressed the thanks of radio dealers at the winter show for the help the society had given by announcements broadcast from the station.

Several of the associations he was connected with, Mr. R. Day said, were very pleased with the help 2YB had given in the broadcast of propaganda.

The following officers were elected:—President, Mr. F. T. Davis; vice-president, Mr. E. J. L. Payne; executive, Messrs. L. F. Binns, I. W. B. Roy, H. Lee, J. A. Pigott, A. B. Macdonald, J. S. King, F. Huggard; hon. auditor, Mr. R. Pepperell; hon. secretary, and treasurer, Mr. W. H. Quickfall.

Relay from 2YA.

MR. DAY asked whether the financial position of the society was such that it would be able to carry on this year without appealing to the public.

The society did not wish to make a public appeal in view of the present conditions, the chairman replied. The subsidy from the Radio Broadcasting Company would bring in a definite amount of revenue, which would pay the rent, and if members paid their subscriptions the society should be in a good position. The society would carry on as long as it could without worrying the public.

Mr. Croker asked if there were any chance of including 2YB in the broadcast circuit to which the bigger stations contributed.

The chairman answered that the difficulty had been to get duplicates of records. The only thing promised yet was a comic serial which would fill 15 minutes each evening. It was the first of its kind promised, but later the station hoped to obtain other records when available.

To a question from Mr. Dunkley whether it would be possible to make arrangements to relay the 2YA band concert programmes on Sunday nights, Mr. J. A. Pigott replied that the difficulty was that the telephone lines were being used for carrier telephony and were not available to the broadcasting company at present. The Government itself had prohibited the use of those lines.

Rum Row Radio

Oxford Graduate Punished

SENTENCE of two years' imprisonment was passed at Brooklyn, U.S.A., recently, on an Englishman named Cecil Molyneux, said to be an Oxford graduate, aged about 30, for operating an illegal wireless station on Coney Island. He was arrested on September 26, 1930.

He is believed to have used it to communicate with Rum Row, the ocean gathering point of rum-runners outside American waters.

When he was asked if he had anything to say, Molyneux stated: "I installed the wireless on the I'm Alone" but the judge cut him short, saying he was not dealing with that case or with liquor smuggling; he was only dealing with the operation of an illegal wireless set.

"You are a highly educated man," he continued, "and I must treat you differently from the way I would a man of small knowledge."



MR. AND MRS. J. W. BAILEY.

represented as Mr. and Mrs. Samuel Pepsy, as they appeared in the three-act radio play, "And so to Bed," recently presented from 1YA.

ARE YOU INTERESTED IN CONSTRUCTION ?

Yes! Then have you made the acquaintance of the

C.A.S.

(Country Accessories Supply).

OUR AIM IS TO HELP THE COUNTRY LISTENER AND TO PROVIDE HIM WITH THE FACILITIES OF THE TOWN.

We have, or can get, just what you want. Furthermore, we can help you because we are Certified RADIO ENGINEERS. Drop us a note asking for our Price List and mention what sets you are interested in.

—THE—

C. A. S.

29 VENTNOR STREET,
SEATOWN, WELLINGTON.

Choral Programme Appreciated.

I WOULD like to extend my meed of praise for the beautiful choral programme which was given by the St. Mary of the Angels choir under the conductorship of Signor A. P. Truda from 2YA on June 1. One of the gems of sacred music, Beethoven's "Mass in C," was beautifully rendered by the soloists and choir; it showed by their efforts that the music had been well rehearsed, the fugues in particular being well rendered. Thanks to 2YA the reception here was clear from beginning to end.—"Listener" (Wanganui).

The Relay Scheme.

WITH respect to the proposal to erect a number of relay stations, before committing themselves to any definite localities the R.B. Co. should make thorough investigations as to the most suitable positions to erect them. It is not merely a question of spacing out the relay stations at equal distances. There are some localities, for instance, which would derive no benefit whatever from the proposed stations. I have been travelling over the North Island in the interests of wireless for nearly seven years, and have no hesitation in affirming that the worst locality for reception is the Bay of Plenty.

Readers may be surprised to hear that part of this district gets no daylight reception during the summer, and for some reason 2YA is barely audible even in the winter months in certain parts in daylight.

Night reception is, needless to say, patchy and uncertain all the year round.

The nearest of the proposed new station would be Hamilton, which is too far away to be reliable, and would leave several hundred sets in no better plight than at present. Rotorua would be much more suitably situated, not only for the district named but also for many places further south. The district around Hamilton is already well served by 1YA.

As stated above, I speak with an intimate knowledge of the reception conditions over the whole island, and I am not a resident of the Bay of Plenty. I would like to draw the attention of the authorities concerned to the practise of a certain Auckland "B" class station in announcing the name of the firm before every record. This is expressly forbidden under the regulations, which fact must be well known to the firm concerned, who are thus getting in a certain amount of advertising. This is not playing the game, as it is well known that certain other "B" class stations have been hauled over the coals for similar offences. Besides, a sense of honour should prevent a station from committing this breach, even were they not brought to book by the authorities.—C. J. Fleming (Hinuera).

Broadcasting and Advertising.

NO DXer ever raised a squeal on his set like the one I feel like making about the Government's action in closing down one of the best "B" sta-

Use Our Booking Offices in Advance

S-O-S

TRAVEL IN COMFORT BY
CAR

WELLINGTON - PALMERSTON
NEW PLYMOUTH

Our Mail Bag

While we welcome the expressed views of listeners on topics pertaining to radio, we ask that these communications be kept to minimum length, as heavy demands are made upon space. Mere reiteration of arguments cannot be accepted for publication, and we cannot take responsibility for views expressed. Address communications to the Editor, and sign all correspondence, though a non-de-plume may be used for publication.

tions in Auckland. I refer to station 1ZQ, whose popularity is due to the fact that their programme consists of bright and popular music of a varied assortment. High-handed tactics will not help swell the number of licenses, which should be the main aim of the Postmaster-General and the New Zealand Broadcasting Company. I understand the reason given for closing station 1ZQ down is that he mentions his own name and that of a firm who supply him with records too many times during the transmission. I am sure many listeners will agree with me in saying that he does not overdo these announcements, and who among them would grudge him the doubtful benefit he derives from this practice?—W. Dalton (Auckland).

Drive for 100,000 Licenses.

AS there are around 200,000 motor vehicles in use in New Zealand, it is not unreasonable to suppose that some time in the future there will be an equal or greater number of radios in use.

The farmer needs the motor-car more than the town dweller because of comparative isolation, and the same applies to radio.

Yet the present basis as to dealer licenses is restricting the selling and services of radio in country districts.

Take any one of the hundreds of small townships in New Zealand. The adjacent population may be twenty families, or 100 families, or more. If a radio dealer wishes to appoint a local resident as representative or salesman he can only do so provided such representative has "no fixed place of business of any description." If the suitable representative is engaged in any retail business he cannot sell or offer to sell radio unless he becomes a dealer and pays £7/10/- per year license.

Often the small amount of business does not warrant such a license, so he simply does not sell radio or perhaps operates without a license and takes the risk of being caught. In either case possible sales are lost or delayed, and both the Government and the Broadcasting Company lose revenue.

It may be said that the nearest dealer can handle the business by sending out a salesman. He can, but with the smaller communities it would not pay to do so, as many have found to their cost.

As a solution we offer the suggestion of a further class of full dealer licenses (really a revival of the old class three dealer license) for centres having less

than 5000 population at a rate of 50/- to 60/- per year.

There is no sound reason why the sale of radio goods should have any more restriction than, say, the sale of fancy goods, hardware, drapery or other goods, and actually it would be better for the radio business if dealers'



IRENE MORRIS.

a well-known Christchurch violinist, who will broadcast from 3YA on July 9.

—Steffano Webb, photo.

licenses were abolished or made nominal and the revenue lost made good by a small addition to listeners' licenses or, 2½ per cent. increase in the Customs tariff.

In the final analysis dealers' licenses are paid for by the public in the cost of goods purchased, and the direct payment of this charge would involve no actual extra cost to them over a period.—Royds-Howard Co.

[We are not sure that dealers in general agree with the writer's suggestion that there should be no more restrictions on radio than other trades. If one firm were at liberty to appoint dealers on the basis suggested in small towns, naturally all of the other 25 principal dealers represented in New Zealand would exercise the same privilege, with the result that it would be a question where representation would end. We are inclined to think that the general view of dealers is that, having regard to the skill involved in radio, some regulation in number of agents and quality of servicing is

necessary in the interests both of the trade and the listener. We, however, invite the expression of other views on this topic.—Editor.]

Why Complain?

BEING a constant reader of the "Record," I often wonder why people with inferior sets, narrow minds and lack of imagination are continually grumbling and wasting their time and the "Record's" space by complaining about station power, wavelengths, hours of broadcasting and nature of programmes.

There are very few who can be interested and entertained by all, and every subject. Different people are of a very different turn of mind. I have been a listener and reader of the "Record" for many years. I file the copies, and on going through the back numbers find that the grouchers all complain along the same lines—power, fading, programmes and wavelengths.

Do these people realise what the output of the stations complained of really is? Do they know the cause of fading when they blame the station? Do they think locality might have something to do with it? Do they think that the broadcast is for them alone? And do they know that there are radio-tricians all over New Zealand who would be pleased to make their sets more selective, so that stations will not clash and come in together? Grouchers should purchase "Wireless, the Modern Magic Carpet," by Ralph Stranger. They would learn a lot and perhaps be more contented. From this book I would quote a few lines. This refers to the British Broadcasting Company's listeners, and is quite appropriate in New Zealand:—

"Out of 20,000,000 there is always a considerable community interested in one particular talk. If you do not wish to listen, switch off your receiver—the switch is provided for this purpose—and wait until something of interest to you comes along."

Now, if we all studied the programmes in our "Record," and went from station to station—the dials and condensers are meant for this—picking out items which interested us we would be able to enjoy our wireless and not have so much to complain about.

And now about the power of the YA stations. I am situated roughly 350 miles north of Wellington. When the afternoon sessions commence, items and announcements can be distinctly heard and understood three hundred yards from the speaker. This is also the case when 2YA broadcasts at 10 a.m. My set is not an unusual one and is quite an ordinary four-valve receiver. Of course I get my share of fading, but why worry? The station is (Concluded on page 10.)

SORE
THROAT?

Pulmonas
INVALUABLE PASTILLES
for
**QUICK
RELIEF**



The Laws of Rugby

WE were given a very clear exposition of some of the rules governing our national sport by Mr. Dan McKenzie, speaking from 2YA on Friday. Dealing principally with the present international interpretation of the rule governing play by a man on the ground, the speaker made it quite clear that while the rule showed plainly that a player may rarely be penalised for playing the ball (or, if opportunity offers, for tackling an opposing player) while on the ground, still he personally could see neither rhyme nor reason in affording the added license.

Mr. McKenzie's digressions on the subject of play of the past were most entertaining. Players of the past century must have been made of very stern material and to those of the present generation, the fact that a law had to be introduced protecting a player lying on the ball from hacking must come as something of a shock.

On one occasion, before the law was enforced, such a player had to have his clothes cut from him at the close of the match, so badly hacked about was he! Nor was the care in providing adequate and suitable headgear prompted by custom or fashion—the idea behind the use of caps, mufflers and helmets was purely one of protection. Apparently the hair provided a very useful medium by which to collar an opponent!

Followers of Rugby must find these talks by such a well known authority on the game as Mr. McKenzie of tremendous benefit. I particularly liked the speaker's reminder that a referee is absolutely within his rights in making use of the "Advantage Rule." Thus, to save unnecessary stoppages in play and to guard against the enforcement of a penalty reacting against the non-offenders, referees should not be over hasty in blowing the whistle when an infringement takes place. As Mr. McKenzie showed, from an instance quoted in a recent senior club match, a team may easily be robbed of the chance of a try by being compelled to take a penalty kick when a continuation of, say, a perfect passing movement among the backs would have been infinitely more valuable. Would it not be a good suggestion to circulate members of the Referees' Association with copies of valuable talks like this one?

**AT
LANDED
COST**

AIRZONE

Electric Sets

Your opportunity to secure a modern and reliable radio of the finest quality at a greatly reduced price. ONLY A LIMITED NUMBER.

ACT NOW!

N.Z. Distributors:

J. A. Smyth & Co.

71 Victoria Street, Wellington.

Ask about the Airzone Portable.

The VOICE of MICHAEL By "CRITIC"

Origins of Music

QUITE one of the most entertaining lectures of the week was that provided by Mr. J. Crossley Clitheroe from 4YA on Tuesday. It was scheduled as a "final" talk of this series, and listeners will certainly be sorry that the end has been reached. I found some little difficulty on this particular night in excluding 2YA, who were entertaining a man with a voice like a megaphone. This lecturer was apparently trying to reach the ears of his listeners without mechanical aid at all, and, I should think, very nearly succeeded.

I believe I am right in quoting Mr. Clitheroe as crediting the 16th Century with showing the greatest advance in the world of music. It was at this period that native speech was first substituted for the former international language of music—Latin. With the encouragement provided by the House of Tudor for art and enterprise, music and harmony moved forward rapidly.

The feeling of the period is best described by the couplet:

*"Since singing is so good a thing,
I wish all men would learn to sing."*

To a very large measure Shakespeare's wish was fulfilled, and ability to take part in an impromptu madrigal became quite the thing. In fact, inability to do so was a sign of lack of education.

A comprehensive and enlightening talk was brought to a conclusion by two illustrations of the madrigal, which is unaccompanied part-singing. Only one thing marred my enjoyment of both songs, and that was the distant but persistent boom from 2YA which, to the accompaniment of "Adieu Sweet Amarillis" and many "Fa-la-las" informed the world at large that . . . Too much watery something or other in the animals' diet . . . only if the cow is fed above the standard . . . came through the winter in good condition. Not quite the theme for a perfect madrigal!

The World's Creditor

THE subject for the international talk of the week chosen by Dr. Scholefield, speaking from 2YA on Wednesday, was one of peculiar and particular interest at the present time—"America as the World's Creditor." The whole world is vitally interested in President Hoover's suggestion that the repayment of international war debts be waived

for a year. The offer could only emanate from the U.S.A., since she is the creditor nation of the world and, while not wishing to depreciate the generous offer, one cannot help wondering as to the present state of trade in the U.S.A., since all hints and suggestions of a general debt cancellation have, in past years, fallen upon very deaf ears.

International Programmes

THE International Programmes which have proved so popular at 2YA, 1YA, and 4YA, are to go on the air from 3YA. The first will be broadcast on Thursday, July 30.

Dr. Scholefield spent the time at his disposal in quoting figures; he apologised at the conclusion for being dull. I do not think anyone will consider such an apology necessary. Just now, when we are all to some extent feeling the pinching of the shoe, a clear statement of the world's balance-sheet cannot fail to be enthralling.

To quote Dr. Scholefield, therefore, it would seem that with the prompt approval of Great Britain, Italy, Germany, and most of the other more important late-belligerents, to the Hoover proposal, it should be possible for it to be put into effect almost immediately. Unfortunately, France is once more proving a stumbling block. Analysis of the situation shows that, after the U.S.A., France stands to lose most under the suggestion, mainly because the huge reparations payments, of which she is the recipient from Germany, would be cut off.

Some of the figures quoted were truly of a staggering nature. War time is certainly not the time for over caution in the matter of loans, but when we consider that Great Britain, from 1914 to 1917 financed the Allies to the tune of over 900 million pounds, of which 500 million went to Russia, and may virtually be written off accordingly; when in addition Great Britain's debt to the U.S.A., for money borrowed, principally on account of her Allies, was funded at 922 millions, payable over a period of 60 years; finally, when it is realised that before the end of the war Great Britain had been milched by three of her principal allies alone to the tune of 2400 millions, much of which must be considered a bad debt; when all these facts are fully considered, is it any wonder that the British taxpayer groans, and thinking people begin to

realise the utter absurdity of adherence to the gold standard when such mammoth international debts may be raised on such an absurd foundation.

The Iron Industry

I THINK Mr. S. F. Wright, who was to have spoken on the above subject from 1YA on Thursday, will agree that his lecture lost little by being read by the official announcer. In my opinion the talk was a distinct reversion to the high standard set by earlier speakers lecturing under the auspices of the Manufacturers' Association. Just recently these talks have become a trifle dull; some have bordered dangerously near to wireless advertising; others have stressed the slogan "Buy N.Z. Goods," at the expense of an interesting topic.

Mr. Wright definitely entertained us with some illuminating data on the growth of the industry in this Dominion. I think it was in 1916 that the first commercial attempt at making soft grey iron from Taranaki iron sand was made. The production was not a success, and it was soon found that this was no project for a blast furnace. The outfit was sold to and operated by a company who have been turning out large quantities of pig-iron of a satisfactory quality from Nelson.

One of the most sensible reasons advanced in support of buying the local product was that an increase in output would result in room for more apprentices. Under the Apprentice Act the total number of apprentices allowed is fixed in proportion to the number of journeymen. These in turn are naturally dependent on the turnover of the company, so that parents anxious to find an opening for their young sons would do well to remember that a prosperous engineering business means more journeymen and more openings for apprentices.

Shall I be unpopular if I once more suggest the possibility of our primary producers being sacrificed on the altar of our secondary industries?

Tapu!

CONTINUING his lectures from 3YA on Thursday, Te Ari Pitama was still most entertaining. Among much of interest in his lecture was the explanation of the Maori word "Tapu." The speaker stated that the law of Tapu formed the Mosaic commandments of the Maori.

To quote him . . . "The very mention of this expression (Tapu) gave to the Maori mind a negative thought—Thou Shalt Not." The word forms one more link in the chain of similarity which is to be found in the language of the Maori and that of other nations. While its origin has been lost in oblivion, the interpretation may generally be stated as "sacred." The old Hebrew laws and the Brahminical institutes of Menu and the Tapu of the Maori possess a resemblance indicating common origin. The Sanscrit rendering is of unusual interest—"Ta" to mark; "Pu" to purify. A worthy point made by Te Ari Pitama was that in attempting to understand Maori laws and ceremonies the pakeha must be careful not to judge

them by orthodox Christian standards. Let Te Ari Pitama put it in his own inimitable poetic phraseology . . . "A standard of Faith which has bathed under the shadow of Calvary's Sun for nigh two thousand years."

As an illustration of the modern application of Tapu, the speaker referred to the fact that to-day, at certain seasons of the year, fish and birds undergo the laws of Pakeha Tapu. To violate the laws is to break the laws of the acclimatisation societies. So, in the past, other things and persons were also subject to this same law, and many of the lives of the Europeans were lost because they violated the laws of Maori Tapu.

I cannot quote here more of this enthralling lecture, but once more must I hand the palm to Te Ari Pitama for the most entertaining and lively talk of the week.

Old English Songs

I THOUGHT the scheduled presentation by Mr. John T. Leech, assisted by Miss Maude Kenward and Miss Muriel Caddie, L.T.C.L., would be on the lines of other musical recitals to which I have listened.

Beyond, however, the briefest introduction of each song, this item proved to be simply the rendering of such old favourites as "Drink to Me Only with Thine Eyes," "Tom Bowling," "John Peel," etc. I think I have made it abundantly clear that I am no judge of music, and most singing is anathema to me, so that criticism is out of the question. The fact that I disliked the rendering of the songs may quite possibly prove that it was all that could be desired.

Children's Sessions

FROM 2YA.

Monday, July 6: Another fairy play this evening by a party of entertainers, trained by Miss Gracie Kerr. There will be choruses and stories, with riddles and puzzles. Uncle Jeff and Kipling Lady will tell the stories.

Tuesday: A Scottish programme to-night, which will include a special mouth-organ symphony. Uncle Toby has been asked to join the mouth-organ band, and Jumbo will also be here.

Wednesday: This evening there will be a talk on Tonga by the mistress of "Tubon," the beautiful Alsatian dog which sometimes comes to the Wednesday children's session. The Cheerful Chirpers will chirp as usual, and Aunt Daisy will tell stories and send out birthday greetings.

Thursday: Uncle George and Big Brother Jack, with Cousin Vermont, Ena Connor and her party, will give us a special animal evening. There will be bears, rabbits, birds, donkeys, bulls and all the animals of Noah's Ark.

Friday: Here come the jolly boys from Scots College, under the leadership of Mr. John Bishop, with solos and choruses. They are coming well supplied with riddles to see how clever Uncle Jim is.

Saturday: Another happy party of Scouts with their camp fire songs, choruses and hakas. Aunt Molly and Uncle Jasper with Spot will send birthday greetings.

Sunday: The children's evening song service will be conducted by Uncle George and the hymns and solos

will be sung by the children from the Terrace Congregational Church under the leadership of Mr. MacLaurin.

FROM 3YA.

Monday, July 6: Here is Cousin Margaret to-night with lots of nice stories. Jean to sing and Cousin Dot will take you for a peep into China—listen for the Chinese musical items.

Wednesday: You all like Uncle John's stories. He and Beatrice will tell you the last adventure of Mr. Elephant. Miss Leversedge is going to bring her little pupils to sing nursery rhymes.

Thursday: Hello! Ladybird, Uncle Frank and Uncle Dick! Will you tell us some jolly stories and sing some songs?—a toothsome story with a musical accompaniment by Denys.

Friday: Chuckle sings "How Do You Do!" and Evelyn is going to sing and recite to you. Three lads are going to play an interesting selection on the flute, cornet and piano. Their names are Grahame, Ralph and Morris.

Saturday: We all like to hear the stories of musicians' lives and ups and downs as told by Uncle Charlie, and to hear the lads play their gay music.

Sunday: The Rev. L. North, of Oxford Terrace Baptist Church, will speak to-night, and a little choir of scholars from the Baptist Sunday School will sing the hymns.

The 1931 "Radio Guide"

180 pages brim full of useful and interesting information.

Price 2/6. All Booksellers and Dealers. Booksellers, Dealers, or Box 1032, Wellington.

Under "Red Tape" Control

Broadcasting of the Future

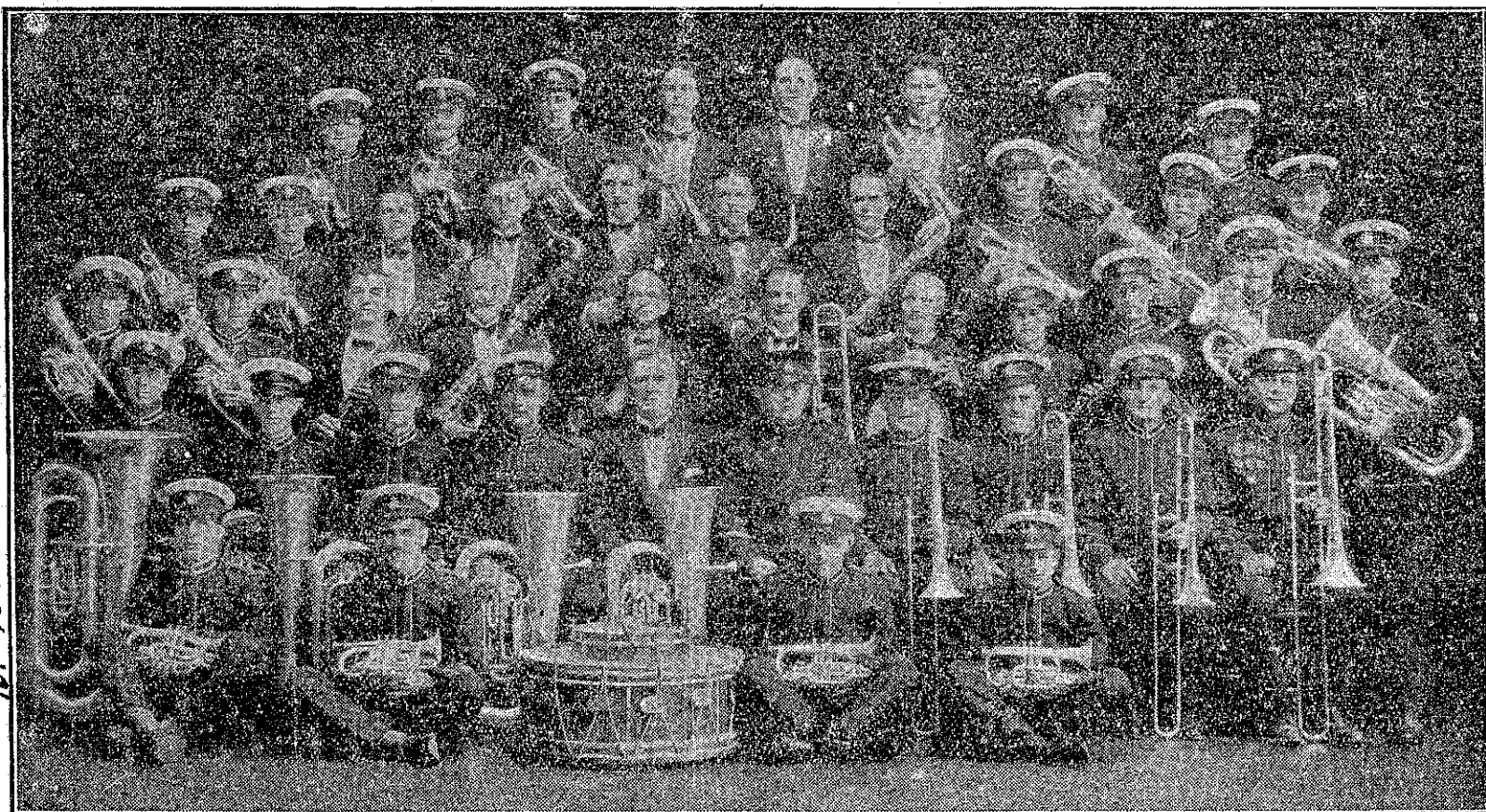
(To the Editor.)

"THIS is Station 5YA, commencing the children's session. Birthday calls. Tommy Jones, of Wellington, we wish you many happy returns of your tenth birthday. We cannot tell you where your parcel is, because it was not delivered through the official channel. Bobby Brown, of Auckland, we cannot give you birthday greetings because your birth certificate did not accompany the blue form your mother filled in at the office.

"We regret that we cannot call Jack Johnson as the required stamp duty was not affixed to the green form. Lily White, of Dunedin, will be called as soon as the necessary declaration is received from her guardian or one of her parents, if alive. All applications for birthday calls must be posted by prepaid post, not less than one calendar month before the date of the desired call.

"We regret that a number of calls for to-night have to be omitted as they were received only three weeks ago. Parents and guardians are referred to volume IV of Regulations, Broadcasting, Rules for Birthday Calls, clause 108 (a). That concludes. . ."

IT was announced in Paris recently that a public hall will shortly be opened in which a listener will be enabled to hear any of the principal European wireless concerts on payment of a small admission fee.



The New Brighton Municipal Band, a newly-formed combination which has risen quickly in popular favour in Christchurch. Playing under the baton of Mr. J. A. Nuttall, it gives regular concerts from 3YA.

721-4062 N632 185080

Our Mailbag

(Continued from page 7.)

not to be blamed. Power! I don't want to be howled out of the room by uncontrollable volume. Natural, sweet-toned, soft music, with a bit of static and fading thrown in will do me. But of course I am easily pleased. No?

The latest grouch appears to be about the 10 a.m. broadcast of 2YA and the length of broadcast hours.

To the average wife, music in the morning is a good tonic for nerves, and helps to cheer her up, so when hubby returns to lunch he is greeted with smiles and not frowns and bites. I have already eaten and enjoyed cakes and puddings, the recipes for which came over the air from 2YA during the morning session.

Some people evidently do not know that when New Zealand stations close down there is still music on the air. If they tune in to Australian stations they will still be able to listen-in—and then they could get a shortwave adapter and continue to be entertained until 2YA starts its 10 a.m. session. A much better occupation than grouching about short hours of broadcasting at night.

My poor old set goes from daylight until bedtime. The valves are nearly two years old, so at times the music comes out a bit scratchy. So what will I do, replace with new valves, or complain that the stations are not what they used to be? I wonder!—"O.K." (Hokianga).

A Different Tune for "Piccolo Pete."

IN your issue of 5th inst., "Piccolo Pete," Wanganui, blames 2YA for garbled reception. My experience, and that of others here, is that 2YA is very good indeed. There is no distortion, no fading, and hardly ever any static noticeable. If 2YA comes out so well with different kinds of sets in Wanganui and is distorted, as I know it is in others, it appears that 2YA cannot be to blame. Is it possible that some sets, being particularly well located, are super-sensitive and become overloaded by 2YA's signals? It appears to be sets which are fine distance getters that are troubled. Or is it possible that these super-sensitive sets do not pick up the heterodyning station or stations. In either case the cure should be obtained by cutting out some of the valves when working with 2YA. Mr. John Ball is just speaking from the studio, and he sounds as clearly as if he were in the room here. I know Mr. Ball, and have heard him often speaking in Wanganui, so that I am able to judge how well the microphone is dealing with him.—Neutro (Wanganui).

Interplanetary Society Formed

SO attractive to certain Americans is the thought of communicating with other planets that they have actually formed the American Interplanetary Society. In a recent lecture to them, a Mr. Clyde Fitch, described as a wireless expert, is reported to have said that it is "theoretically possible" to communicate with Mars or other planets by means of infra red light rays, which could pass through the Heaviside Layer.

Simplify DX-ing.

DX CLOCK 9d.
DX VERIFICATION FORMS—
1/6 for 2 doz.; 8d. doz. over 6 doz.
Booksellers, Dealers, or Box 1032,
Wellington.

FREE RADIO GOODS

WIN A BIG MODERN CABINET SET!

NO ENTRANCE FEE

Oh, Boys, What a Chance

Free Radio and no bother at all; everybody eligible to enter, and an equal chance of getting any Radio prize you like to name.

Send to-day for full particulars, and you will soon be on your way to winning your chosen prize.

NO ENTRANCE FEE

NO TIME LIMIT

Rip out this coupon and send it with a stamped envelope to:

Stanley Smith,
Box 1032,
WELLINGTON.

Please send full particulars right away. I am enclosing a stamped envelope addressed to me.

NAME

ADDRESS

AGE R.R.3

Closing of 1ZQ.

Statement by Manager

WE have received the following letter from the manager of Station 1ZQ in regard to the closure applied by the Minister:—

"Regarding your notice of the closing of an Auckland B Class Station for advertising in your issue of the 26 inst. it seems that you have been misinformed as to the situation, and it is due to me to give the correct position which I hope you will publish.

"The Auckland B Class Station 1ZR, which was advertising largely through the day and evening sessions, and which I believe can claim to be the first B Class Station in New Zealand to issue a schedule of prices for broadcast advertising, was not closed nor was any notice taken of it until 1ZQ was closed; while 1ZQ, which is the oldest B Class Station in New Zealand, was closed because it mentioned only its own name (Keith's Radioshack) and the name of the firm supplying it with gramophone records. These announcements have been made from all B Class Stations in New Zealand, as every listener knows, and are necessary if records are to be obtained for programmes.

"It seems strange that one only of the stations making such announcements should have been closed, while the station which made a feature of advertising a number of Auckland business houses should not have been closed; also it seems strange that other B Class Stations are still making announcements of their own name and also the names of firms supplying them with records.

"It seems strange that such action should have been taken, as almost at the same time the Hon. J. B. Donald made the statement permitting sponsored programmes.

"I have all the correspondence between Broadcast Station 1ZQ and the P. and T. Department, as well as a copy of most of the advertising announcements made by other B Class Stations throughout New Zealand, and think the whole matter strange.

"When the Minister, the Hon. J. B. Donald, was interviewed on the subject, he refused to discuss the matter.

"The above statement is absolutely correct as I can prove, and in fairness to myself and 1ZQ I should be obliged if you will publish it.—Thanking you in anticipation.

ROY KEITH,
Manager Broadcast Station 1ZQ.

[Our information simply was that an Auckland station had been closed because of using advertising matter. We had no information as to the type of matter complained of. We certainly agree on the fundamental principle that one ruling should apply to all and no unfairness should operate against any one station.—Ed.]

Shortwave Club Meeting

Some Interesting Questions

THE monthly meeting of the Shortwave Club held on Thursday, June 25, was only moderately attended. However, the weather was anything but favourable, and this probably accounted for the absence of many.

The reception of letters and routine business was proceeded with. The most interesting letter was one from a member in Hawke's Bay, who had cleared up the French station which many

hand capacity disappeared. In this case it would seem that the only thing that could be done was the erection of a false panel. In front of the ordinary panel another metal shield should be erected and the condenser shafts extended until they could be fitted on to this. The two panels should be separated by two inches. If this panel were earthed, all hand capacity must disappear.

Speaking of battery leads raised another question. "Would it be of advantage to shorten my battery leads? They are now three feet long." Mr. Clark, in answering this question, pointed out that the "C" battery leads were a continuation of the grid return, and if these were long not only would selectivity be impaired, but the set was prone to oscillation and similar troubles. "It is advisable," said the lecturer, "to keep the 'C' batteries within the set, for by this means the 'C' battery leads can be kept down to a minimum. A very great amount of trouble arises through long, straggling leads, even although these be enclosed in a battery cable." If an eliminator was used, it must be shielded, and under these circumstances can be placed within a foot or so of the set.

In reply to a question on coils, Mr. Clark remarked that it was a bad practice to coat short-wave coils with "dope" or celluloid cement. "It quite spoils selectivity and will broaden the bands out too much," he said.

Another rather difficult problem was raised by a member who had a superheterodyne broadcast receiver. He had been sold a super-heterodyne converter on the understanding that this would fit in front of the ordinary super-

heterodyne, but coupled up in this way it would not work. When it was connected to the grid of the first intermediate frequency, it worked well. The lecturer said it was rather hard to account for. Of course, a double oscillating process was taking place in the converter and in the set, and under the circumstances he thought it advisable to connect the converter where it was now being connected. No harm could be done, and if the set was giving satisfaction the matter could be left at that.

Another complained that his set was not giving enough lift, although everything seemed to be in order. Mr. Clark remarked that a pentode would probably have the desired effect. Very many people had put in pentodes and not had satisfaction, although he had found them particularly good. A pentode must not follow a stage of audio, but if coming immediately after the detector would have the effect of two stages of audio. It goes best if coupled in a specially matched output unit. It is a valve with which very good results can be had on short-wave.

At the end of his lecture, Mr. Clark was cordially thanked, and a request was made that at some time in the future he bring along a typical short-wave set and explain to members the points to look for in constructing a short-wave receiver. Mr. Clark said he would do his best to comply with this request.

Broadcasting in Bulgaria

IN Bulgaria radio has been strongly discouraged, and there is yet no indication of any appreciable advancement during the next few years. All the means of communication, such as railways, telephones, telegraphs, and wireless stations are monopolies of the Government, which will not permit the private construction or operation of radio broadcasting or receiving stations.

RADIO DIRECTORY

What to Buy and Where

CITIES.

ACE & HAMMARLUND SETS, Johns, Ltd.
WESTINGHOUSE Rectifiers Chancery Street, Auckland.

BURGESS RADIO BATTERIES, All Radio Dealers.

LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,
Courtenay Place, Wellington.

MULLARD VALVES All Radio Dealers.

RADIOLA RECEIVERS and Farmers' Trading Co., Ltd.,
Expert Radiola Service Hobson Street, Auckland.

RADIO SALES AND EX-4ZW, Dunedin.
CHANGE, LTD.
SERVICE WORK FOR ALL RADIOS.

COUNTRY TOWNS.

PHILIPS VALVES AND
APPARATUS All Good Radio Dealers.

WHY?

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

BURGESS RADIO BATTERIES

Answers to Correspondents

MRS. R.L.D. (Otahuhu): It is impossible to identify stations from the frequency only. Sometimes there are as many as six or seven stations on or very near the same frequency, and to sort one of these out without further particulars is impossible. Some data concerning at least items heard, and time of reception, are essential.

E.O.M. (Wellington): The fact that you cannot receive Americans is not the fault of your receiver (if, of course, it is working efficiently), for it is of excellent make, nor of your aerial. Unfortunately clay—even wet clay—does not make the best of earths, as the resistance is rather high. If you could sink a new earth in wet, loamy soil, you would probably notice a marked improvement. Incidentally your locality is rather poor for long-distance reception.—Ed.

ON June 16 many Americans were logged between 4.30 and 11 p.m. Among them were the following: KGER, KYW, WFAA, and KFER. At about 10 p.m. KFE was louder than 4YA. 7ZL, Hobart, was badly heterodyned by an American until about 10 p.m. Between 1350 k.c. and 1050 k.c. (222 and 286 metres) there must be about 30 stations or more all operating at the same time and heterodyning badly, and still new stations are given license to operate between these frequencies.—L.I. (Gisborne).

"TROUT" (Taupo): Verifications from New Zealand stations and the following Australians, 2FC, 2BL, 3LO, 2NC, 3AR, 4QG, 2BH, 2UE, 2GD, 3DB, 3UZ, 5CL, 6WF, 7ZL and 7LA, are not accepted for the D.X. competition. The last-named Australians are, however, counted if logged in daylight, but the verification cards must clearly admit this fact. Your log should be well worth entering for the Ellis Cup (for competition among battery-set owners). Entries for this should reach our offices not later than December 31, 1931.

Identification Wanted

"HIGH PITCH" (Putaruru): 3BO, Bendigo, 4BC, J. B. Chandler and Co., 43 Adelaide Street, Brisbane. 6WF, National Broadcasting Station, Hay Street, Perth.

"ACE" (Kakahi): JOHK, Sendai, is quite sufficient.

"BOB" (Wellington): WTAM, National Broadcasting Co., Cleveland, Ohio.—KTHS, Chamber of Commerce, Hot Springs, Arkansas. WFAA, Dallas News and Journal, Dallas, Texas. WLS, Agricultural Broadcasting Co., Chicago, Illinois.

W. JACK (Wellington): WLS, Agricultural Broadcasting Company, Chicago, Illinois, and WENR, Great

Lakes Broadcasting Company, Chicago, Illinois. These two stations share transmission times.

Would P.K.B. (Oamaru) please send his address?

AMERICAN station heard at 8 p.m. on the 23rd on 605 k.c. (495 m.). A xylophone solo was heard.—"Oscar" (Marton).

AT 12.25 a.m. on the 21st I heard a station which sounded Chinese. A lengthy talk, followed by an announcement, was given. Dial reading 63 (3AR, Melbourne, 60; 7ZL, Hobart, 67) —"Hilltop" (Wellington).

Reception Table

Australian Stations

The accompanying table shows the relative strengths of the main Australian stations as received by "Windswept," Hataitai, Wellington. A comparison of this table with that sent in by "Red Bird," Newtown, Wellington, affords an excellent illustration of the part locality plays in the reception of various stations.

Station.	Strength (1—10)
2FC, Sydney	9
2BL, Sydney	8
4QG, Brisbane	8
3LO, Melbourne	7
3AR, Melbourne	7
2GB, Sydney	7
2NC, Newcastle	7
7ZL, Hobart	7
2UE, Sydney	5
5CL, Adelaide	5
3UZ, Melbourne	4
3DB, Melbourne	4
4BC, Brisbane	3
3BO, Bendigo	2
8KZ, Melbourne	2
6WF, Perth	2

[For a four-valve Browning Drake your log is quite good. Why not bring your set up to date by building the "Outspan"?—Ed.]

AT 3 a.m. on the 19th, station heard 1 deg. below 2FC. Dance music was heard, followed by an announcement that the last dance number would be "Safety First." Following this, what sounded like "Auld Lang Syne" was heard, and the station went off the air.

News and Views
of the
D.X. CLUB

Also, an American between 4QG and 2YA announcing "K — L." At 8.10 p.m. the announcer made reference to an advertisement concerning the cleaning of cars for seven dollars. At 8.15 p.m. a man was singing "Nobody's Sweetheart."—"Radio" (Auckland).

STATION on approx. 845 k.c. (355 m.) heard at 5 a.m. on the 23rd. An instrumental item followed by a short talk in English was heard. After a piano solo the station closed down. Would this be VUB, Bombay? Also station on approx. 785 k.c. (382 m.) between KTM and JOHK heard several evenings this week at approx. 9.30 p.m.—"Oooh" (H.B.).

STATION heard on 11.5 deg. (3DB, Melbourne, on 12) from 1 a.m. till 2.45 a.m. on June 21. The music was clear, almost all the items being noted, but announcements were poor. At 2.45 a.m. a call resembling 3BY, Melbourne, was given.—"Punch" (Dunedin).

JAPANESE stations heard at midnight on June 21 broadcasting on 525 k.c. (568 m.) and 780 k.c. (384 m.)—"High Pitch" (Putaruru).

STATION heard at 3.45 a.m. on June 18 on 810 k.c. (370 m.). Man was speaking in a foreign language. Also a station on 1070 k.c. (280 m.) heard on June 7. Several vocal numbers and orchestral selections were broadcast between 12.30 and 2.15 p.m. when he signed off. Station on 1120 k.c. (268 m.), which signed off at 9 p.m. on June 17. Portion of call sounded like "F.S." Also station on 1460 k.c. (approx.) (205 m.) heard on June 2. Man was singing to orchestral accompaniment. Announcer remarked that time was — 20 minutes to (or past) ten, and station signed off at 6.38 p.m., N.Z. time. Lady heard speaking from station on 1140 k.c. (263 m.) at 1.25 a.m. I later heard "Here Comes the Sun."—"Murihiku" (Invercargill).

STATION heard between 5.30 and 5.45 p.m. (when he closed down) on June 21 playing dance music. Operating on 380 m. (790 k.c.)—"Pop" (Wellington).

STATION on 303 m. (990 k.c.) heard on June 9. Items heard: 9.20 p.m., "Old Pals are the Best Pals After All" (tenor solo); 9.55 p.m., organ solo; 10.3 p.m., it was announced that — was relaying from the — Town Hall. It was also heard on June 10 broadcasting what appeared to be a children's session. I am practically certain that the call was 4GR, Toowoomba, but that station is listed as being on 294 metres (1020 k.c.). It was not 3BO.—R.J.R. (P.N.).

AT 4.45 p.m. on June 17, station heard on 910 k.c. (330m.) Speech was foreign. A number of gramophone records was played. Also at 4.15 p.m. on the 21st, another foreigner on 950 k.c. (315.9m.) was heard playing records, and also broadcasting songs with stringed orchestral accompaniment. Songs and

Reception Table

The following is a table showing the relative strengths of some of the main Australian stations as received by "Red Bird," Wellington:—

Station.	Strength (1—10)
2FC, Sydney	9
2BL, Sydney	7
4QG, Brisbane	7
3AR, Melbourne	7
2GB, Sydney	6-7
5CL, Adelaide	4
3LO, Melbourne	3
7ZL, Hobart	3
2NC, Newcastle	2
4BC, Brisbane	1-2

speech were both foreign. Has any D.X.-er heard the Cuban station announcer?—L.I. (Gisborne).

STATION heard from 4.30 p.m. until 5.10 p.m. on June 21 on approximately 250 metres (1200 k.c.). About a dozen records were heard, but even on closing down no announcement was made. Evidently fairly close to Hastings, as signals were loud. Also an American on approximately 290 metres (1300 k.c.), closing down about 7.25 p.m. An orchestra was playing and the following items were heard: "Old Black Joe," "I Don't Suppose You Have Me in Your Dreams," and "I Have — but I Haven't Got You."—"Molecule" (Hastings).

STATION heard at about 2 a.m. on June 22 on approximately 700 k.c. (428 m.). One of the records heard was (2.24 a.m.), "Let the Rest of the World Go By." At 2.28 a.m. a talk was given in very slow English, followed by "God Save the King." Closed down at 2.40 a.m. Call was given, but was missed owing to static.—N. Jenkins (Master-ton).

STATION heard from 10.30 until 11.15 a.m. (when they closed down) on June 21 on 30.4 m. Several recordings and a few orchestral numbers were played. Call letters could not be distinguished, but I heard "Hispaniola" and a reference to the Spanish Bulletin. Strength about R7.—T. P. Sewell (Christchurch).

STATION heard at 5.45 p.m. on June 14 on approx. 250 m. (1200 k.c.). The following accordion solos were played consecutively: "Scottish Airs," a march, "Sole Mio," and "When You Come to the End of a Perfect Day." Also a station on 227 m. (1320 k.c.) signing

Select your station by using one of our
HIGHLY EFFICIENT WAVE TRAPS
Price only 15/-.

PHILIPS Q.P. SET AND SPEAKER, £14/14/-.
STEINITE 8-Valve CONSOLE Model, with Dynamic
Speaker, now £29.

G. G. MacQUARRIE LTD.

Licensed Radio Dealers,
120 WILLIS STREET, WELLINGTON.

PORTABLE RADIO SETS
for

Holidays and Camping

5-Valve Sets, complete £16/12/6
Transportable Models £21/5/-
Unspillable Accumulators, B Batteries, etc.

A E STRANGE

Telephone 36-774

404 WORCESTER ST., CHRISTCHURCH.

off at 10 p.m. N.Z. time, on June 18, after playing the National Anthem. Previously a band selection with cornet solo was heard. Also station just below 2NC, heard at 10.15 p.m., playing "Men of Harlech." Station was evidently broadcasting a sponsored programme, as mention was made of — Proprietary, Ltd. This was followed by two humorous solos by Tom Cook—"G. E. Boy" (Dunedin).

Stations Identified

"ELECTRON" (Oamaru): American near KGA is WLAC, Nashville, Tennessee.—N. Jenkins (Masterton).

"SIX-VALVE" (Christchurch): Station heard when 2NC signed off was 3BF, Ellwood. "D. McL." (Wellington): JOAK, Tokio, 345 m. (870 k.c.). "MAAH" (Morrinsville): WOAI, San Antonio, Texas, 252 m. (1190 k.c.). They always have a news session before they close down at 5 p.m. "Sahem" (Feilding): THO, Hobart, 337 m. (890 k.c.). "A. D. Henderson" (Hastings): JOFK, Hiroshima, 353 m. (850 k.c.). "Novice" (Dunedin): 4BC, Brisbane, 265 m. (1130 k.c.). "Oct. 8" (Havelock North): 3BO, Bendigo, on about 303 m. (965 k.c.). "Distance" (Wellington): JOAK, Tokio, 345 m. (870 k.c.). "E.F." (Blenheim): KTM, Los Angeles, 385 m. (780 k.c.); KPO, San Francisco, 441 m. (680 k.c.). "Electron" (Oamaru): Station between 3YA and 2UE is an Australian, the call of which I have not been able to get. Wavelength is about 303 m. (990 k.c.). KFBF, Great Falls, Montana, 234 m. (1280 k.c.). "Detector" (Auckland): 2ZD, Masterton, 254 m. (1180 k.c.).—R.J.R. (P.N.).

I.J.M. (Christchurch): Station on 390 m. was JOHK, Sendai, relaying JOAK. On Sunday evenings the Japs. play quite a lot of English and European music, either with their own orchestra, which is quite high-class, or with recordings. W.H.N. (Auckland): Your station was 4ZW, "the Theatre of the Air," on their midnight request session. D.McL. (Wellington): JOAK, Tokio, "Distance" (Wellington): Station you heard is Radio Bangkok, Siam, as described in last week's notes. "Novice" (Dunedin): 2UE, Radio House, Sydney. "M.A.A.H." (Morrinsville): WOAI, San Antonio, Texas. He is my best American and now can be heard at good speaker strength on an old 6-valve battery set in this poor locality at 3.45 p.m. and can be handled on the "local" switch when giving the news session, with which he closes down at 5 p.m. (our time). "Oct. 8" (Havelock North): Greetings from a Napier H.S.O.B. Your station is 3BO, Bendigo, which is coming in now at R7. This station has no cards as yet, but acknowledges letters over the air. Have been able to hear KFI testing on recent nights about 11 p.m. quite clearly on speaker without either earth or aerial. —W. J. Crabbe (Buller Gorge).

"GUS" (Hastings): KTM, The Pickwick Broadcasting Corp., Los Angeles.—"Proton" (Gisborne).

L.C.A. (Aramoho): Station 4BC, Brisbane. I heard the announcer counting up to ten recently. N. Jenkins (Masterton): 5WS, Adelaide.—"Murihiku" (Invercargill).

SIX-VALVE (Christchurch): Station on 1260 k.c. (238 m.) is 3WR, Wanganui, Victoria. "Live Wire" (Wanganui): Jap. on 595 k.c. (504 m.) re-

KNOW the time all over the world with a

DX Clock.
9d. Each.

Posted in Cardboard Tube.

"Radio Record," Box 1032, Wellington.

Foreign Pronunciations

THE following is the alphabet with German and Spanish pronunciations. This should be of great aid in identifying stations. For example, if you hear, "a'ley a'ssey a'kess," you will know for certain it is LSX, Argentina.

GERMAN.

A ah.
B bay.
C say.
D day.
E ay.
F "f" as in English.
G gay.
H hay.
I ee.
J yot (short "o").
K kah.
L "l" as in English.
M "m" as in English.

N "n" as in English.
O "o" as in English.
P pay.
Q coo.
R airr (roll the "r").
S "s" as in English.
T tay.
U oo (as in "too").
V fow ("ow" as in "cow").
W vay.
X ix (as in "fix").
Y ip'see lon.
Z tsett.

SPANISH.

NOTE.—An apostrophe (') after a syllable means that it is accented. One before "h" means that "h" is guttural.—"NZ17W," (P.N.).

A ah.
B bay.
C thay.
D day.
E ay.
F a'fey.
G 'hay.
H ah'chey.
I ee.
J 'ho'tah.
K kah.
L a'ley.
M a'mey.
N a'ney.
O oh.
P pay.
Q coo.
R a'rey.

S a'ssey.
T tay.
U oo.
V vay.
(There is no "W").
X a'kess.
Y jay (or) ee
gree ay'ga.
Z thay'tah.

laying JOAK. "Oct. 8" (Havelock): 3BO, Bendigo, on 980 k.c. (306 m.). B.F. (Blenheim): KPO, San Francisco, on 680 k.c. (441 m.).—"Oscar" (Masterton).

DX Topics

Verification Notes.

THE following are notes taken from recently received verifications: Call letters of KMIC were changed to KMCS on January 16. KOL, Seattle writes: "This is the first letter we have received from New Zealand. Since your reception of our programme we have installed a new transmitter, power 1 k.w., with 100 per cent. modulation, and you should be able to receive us consistently with increased signal strength." They also asked for reports on their new transmitter. As verification of my report to KREG, the owner of that station, Mr. A. B. Van Campenolle, sent a newspaper clipping of an article on my report which appeared in the "Santa Ana Daily Register." Other verifications were received from KMCS, Inglewood, California; WKBF, Indianapolis; KVI, Tacoma; KIX, Oakland; and KGA, Spokane.—"Seven Kicker" (Okoroire Springs).

Who Heterodynes 3YA?

AMERICAN stations have been coming in very well lately. WTAM Cleveland, 1070 k.c. (280 m.) has been heard at 4.30 a.m. at R8 on speaker. Like "Six-Valve" (Christchurch), I receive 50L Adelaide at good volume and very seldom notice any heterodyne with 2YA—then only between 5 and 6.15 p.m. On June 14, after 2YA had closed down at 4.30 p.m., WGM Chicago was received at R7 on the speaker. This station may possibly be the culprit.—"Bill" (Hastings).

[Your log is quite a good one. Increasing the height of your aerial above 40 feet would not be of any distinct value.—Ed.]

4ZR Well Received.

A NEW station, 4ZR, Balclutha, has been heard operating on 1330 k.c. (225 m.). He comes in at excellent volume here. Verifications have been lately received for daylight reception of 2BL and 2FC.—W. Hampson (Blackball).

better than that from 4YA. Static was moderate, with no fading.—N. Arthur (Napier).

Recent Loggings.

LATEST loggings are from KEVD, Culver City; KOA, Denver, and KHJ, Los Angeles. WTAM is my best American, and comes in at R5 at about 4.30 p.m., while KTHS is R3.—"Oscar" (Marton).

Particulars of 4ZF.

VERIFICATION was recently received from station 4ZF, Dunedin, which is operated by Laidlaw and Gray, Ltd., 123 George Street, Dunedin. Power approximately 7½ watts. Frequency approx. 1080 k.c. (278 m.). No regular programme schedule as yet.—"Lohta" (P.N.).

Shortwaver on a Broadcast Set.

AT 11 p.m. on the 20th four new Japanese stations were heard. Their calls, noted as they closed down at about 12.30 a.m., were as follows: JOAK, 870 k.c. (344.6 m.); KOGK, 790 k.c. (379.5 m.); JOHK, 770 k.c. (389.4 m.); and JOAA, 580 k.c. (517 m.). All were at good loudspeaker strength. I receive quite a number of short-wavers on my six-valve a.c. broadcast set. They include 2ME, Sydney, often heard at about 6.30 p.m. calling up the Norah, a coastal steamer, and I can hear the Norah acknowledging the message. I can also hear a number of New Zealand "hams" on two-way conversation. Is this usual with a broadcast set? Below is given an excerpt from a verification received from station KOB, State College, New Mexico.—"2SG" (Takapau).

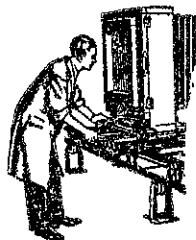
[Your receiver must be oscillating and probably its third harmonic is heterodyning with the carriers of the short-wave stations you receive, resulting in a beat frequency which is being detected and amplified by your set. Your receiver is well designed and soundly built throughout.—Ed.]

"Station KOB is owned and operated by the New Mexico State College of Agriculture and Mechanic Arts at Las Cruces, New Mexico, 40 miles north of El Paso, Texas. It is one of the oldest broadcasting stations in existence, having commenced regular telephone broadcasts with a five-watt experimental set in 1921. A regular broadcasting service has been maintained ever since. The present transmitter is a 20 k.w. set constructed in the shops of the college from our own design. The antenna system consists of a cage type of aerial and a counterpoise suspended on insulated pipe masts 140 feet high and 175 feet apart. Our frequency is 1180 k.c.

DX Notes.

JUNE 21 was an excellent night for reception here. Of the Americans (Concluded on page 29.)

APPEARANCES DO COUNT IN A RADIO SET



Let us Solve Your Illustration Problems.

MR. BROWN wants a new radio set. What is one of the first things he does? He reads the radio advertisements, writes for catalogues and studies the pictures of the different models. A good picture will frequently determine his choice, as a set that "looks better" in print sells easier—a radio dealer sells his goods by "selling" his picture.

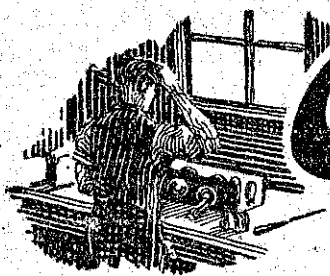
"The Dominion" Process Engraving Department is noted throughout New Zealand for the unusually high quality of its illustration blocks. If you want your product effectively illustrated you must have "Dominion" blocks.

The Dominion

PROCESS ENGRAVING DEPARTMENT,

WELLINGTON.

DAY AND NIGHT SERVICE



Questions and Answers



S.L.M. (Greymouth): My differential adapter will oscillate over the whole range of 40 and 80 metre coil, using a .00035 condenser, but it will only oscillate over a small range when the .0001 is in series with it.

A.: There are two things to try, (a) increasing the number of turns on the tickler coil, (b) the use of a small series condenser in the aerial circuit.

2. The differential condenser has a very appreciable effect on the tuning.

A.: This is quite unusual, but it would be impossible to attribute it to a definite cause without experimenting with your set. If you get the reaction number of turns correct you may find that this trouble will disappear.

3. In a tuned plate circuit, at what

frequency band would the impedance of an average coil and condenser most nearly match a s.g. valve?

A.: At medium wavelengths.

JAYEM (Kelburn): I built the Radiogram Five, but am not satisfied with the result. When I use the detector valve and audio frequencies, the local stations come in well, but with the r.f. stages I can just hear 2YA and 2ZF.

A.: We are afraid we cannot tell you what is wrong. Obviously there is some wrong connection in the radio stage, and it is a case of hunting round and experimenting until you find it. Have the valve tested in another set.

2. If I have too much reaction the set develops a howl, which stops when I de-

tune the condenser in the detector circuit.

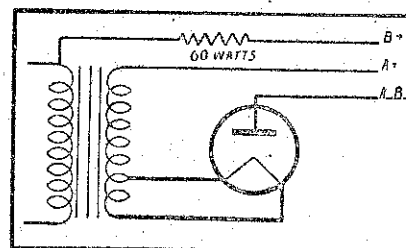
A.: This is due to the voltage on the detector being wrong. Either reduce the voltage by altering the tapping on the eliminator or put a higher resistance in series with the detector lead.

3. Is it quite in order to use grid bias supplied from the eliminator instead of bias resistance?

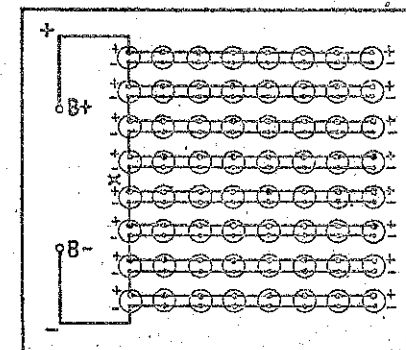
A.: Yes, instead of earthing the grid returns carry them to an appropriate tapping on the eliminator, and earth the centre taps on the filaments.

PROGRESS (Pahiatua): Can I use a tungal battery charger to charge both "A" and "B" batteries, and how can it be done?

A.: Most tungal chargers are like the one in the diagram and employ a resistance lamp to break down the charging rate for the "B" batteries. If yours is



not wired like this the only way you can charge the "B" battery without pulling down the transformer is to find out the maximum voltage that the low tension



winding will supply, and break the "B" battery up into units of this voltage and charge them in parallel. In other words, if it will deliver a maximum of 12 volts and you have a 90-volt "B" battery you would have to divide it up into eight sections, and each section will contain eight cells. These are arranged in parallel and the charger connected. The diagram illustrates the idea.

2. How can I overcome harshness in a Browning Drake?

A.: If properly constructed and a good speaker and power valve used, the B.D. will not be harsh. It is all a matter of adjusting your valves to operate under the best conditions. Use a power valve of the B405 class and bias it with about 12 volts if you are using 90 volts "B." You have not stated what type of speaker you are using. This may be at fault.

SPEAKER (Auckland): I have a crystal set with a 2-valve amplifier. When I use a 15 feet extension cord on the speaker it still whistles at 380, but when I earth one of the terminals the noise ceases. Is this detrimental to the batteries?

A.: Unless you are using an output filter of some description, yes. Try the use of a one or a half mfd. condenser between one of the leads and earth. This should by-pass the squeal without short-circuiting your batteries. If, however, you are using an output filter, you are doing no harm.

JUNK BOX (Petone): I have built a shortwave adapter which goes satisfactorily, but when the plates of the aerial condenser touch, 2YA comes in. Why is this?

A.: According to your circuit everything appears to be in order. The system will be fairly broad in tuning, and is sharpened up by the aerial condenser. When, however, this touches, the tuning becomes very broad, and what is probably one of 2YA's harmonics comes in strongly.

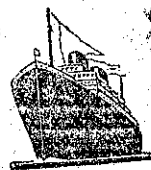
2. My set is a three-valve, and as I have been troubled with audio howl, I have tried all the usual cures without success. I believe the trouble is in my transformer, but I do not want to be rash, and buy a transformer until I know for certain.

A.: We agree with you on two counts: (1) That the trouble is in one of the transformers, and (2) that you should not buy until you are sure. Try this: Reverse the positions of the transformers, putting the low ratio first and the high ratio second. Having done this listen-in to the first stage and see if the howl persists. If it does and you still cannot find the cause you will have to pull the set down and rebuild it. By the way, a jacking system for the first valve frequently introduces audio howl. (Note: We have noted your request for tips and jottings, and will try to get this column going again.)



There is remunerative employment for qualified radio men on shore and ship. The up-to-date methods of instruction and modern equipment provided at the school enable the student to obtain a most thorough and practical course. All papers connected with the Correspondence Course are promptly corrected in New Zealand.

Day and night classes for Professional Certificates. Correspondence Classes for Professional Certificates. Correspondence Classes for Amateurs and others. Write for Particulars to Department A. **JOHNSON'S WIRELESS & RADIO SCHOOL** St. George Buildings, 8-10 Brandon Street, Wellington.



Mr. Radio Fan
Puzzled. Want the latest?
"Tune in" on these publications at

N.Z.'S OWN RADIO BOOKSHOP

THE TE ARO BOOK DEPOT, WELLINGTON.

(Read this advt. weekly, as new stocks arrive every overseas mail, which prevents us issuing a stationary catalogue.)

We have the largest stocks of radio literature south of the line. We cater for engineers, wireless colleges, amateurs, broadcasters and beginners. Your money returned if books sent are unsuitable and sent back promptly in good condition.

Many of our customers inform us that although they own a Radio Set, they know nothing about it, and find difficulty in swatting up Radio from technical books on the subject. Read below what two N.Z. Authorities say about "WIRELESS: THE MAGIC CARPET," by Ralph Stranger.

We are posting this fascinating publication every day for 5/-. Why be ignorant any longer? Why have bother with your set periodically when the "MAGIC CARPET" will save you grey hairs?

The Wonder Book of Wireless—

"WIRELESS: THE MAGIC CARPET,"

By Ralph Stranger (5/- posted).

Mr. Colin W. Smith, B.A., Technical Editor of the "Radio Record," says of this publication:—

For a simple graphic description of the fundamentals of radio, "The Magic Carpet" is unexcelled. It starts the beginner off with the very foundations of electricity, and takes him by easy stages to the more advanced stages of radio. The presentation is delightful; one reads not because he wants knowledge, but because he is interested, and before long finds that he knows something about radio. The illustrations are a great help to the easy assimilation of the subject matter, and in themselves are interesting. It is a book one can thoroughly recommend to the enthusiast, knowing he will not be disappointed. In a word it explains the "why" of radio.

Mr. W. M. Dawson, A.M.I.R.E., M.I.W.T., radio engineer, of Philips Lamps, Ltd., Wellington, states that "The Magic Carpet" is written in simple language, graphically illustrating and explaining the various parts of a radio set and enabling its owner to solve quite readily the faults and troubles that arise from time to time, also that no radio set owner should be without it.

WRITE US NOW TO AVOID DELAY.

TE ARO BOOK DEPOT

64 COURTENAY PLACE, WELLINGTON.

NEW CHUM (Hastings): I have a well-known midget set. Is it possible to get the American stations on this receiver?

A.: That is rather a difficult question to answer. American stations have been received on three-valve sets, and yet owners of 10 valve super-sports receivers cannot hear a whisper of them. So much depends upon your locality. It is impossible to lay down any definite rules in respect of their reception.

2. My aerial is about 80 feet long and about 50 feet high one end and 40 feet the other. Is it any good?—Yes, excellent.

3. Is my set a good make for reception?
A.: We do not know anything about it.

J.P.U. (Auckland): I intend making shortwave coils for my set, but the middle of the primary of the existing broadcast coil is tapped. Will this be necessary in the shortwave coils?

A.: It sounds as though the set is one of the h.f. det. audio types neutralised by the split primary method illustrated herewith. This type of set does not lend itself to shortwave.

(Note: We regret we cannot give you the specifications you ask for. Very many specifications for shortwave coils are published in the "Record," and we cannot continually be designing coils for individual requirements. Already our Questions and Answers section is out of proportion to the size of the paper.)

MOA (Taihape): I intend to construct the Outspan Five. Can I use a metal panel and connect "A—" of the last tuning condenser to it, biasing the detector valve with the leak return to "A+—"?

A.: Yes, this method is quite in order and is preferable under those circumstances.

2. Would h.f. chokes be advantageous in the screen-grid leads to the h.t.?

A.: They would be of use if the set

were likely to be unstable. We found them unnecessary.

3. I have a set of 1in. diameter coils to match a .00035 variable condenser. What would be the correct number of turns for the primary to match these for the Outspan Five?

A.: "Cathode" went into this point about matching a week or so back. Roughly about a third of the number of turns on the secondary will be sufficient, but if you experiment you would find out the most suitable number.

SPARKS (Midhurst): A continual hiss is heard through the phones, and it stops if I cut down the volume by the rheostat or touch the grid terminal on the transformer.

A.: Try reversing the turns to the primaries of one of the transformers. Failing this, place a low value condenser about .0001 across the primary of the transformer.

2. Sometimes when the set is working full strength it cuts itself out, and it does not come on again until the rheostat is turned back and then on again.

A.: This seems to be one of the valves, probably the detector. Have them tested and at the same time examine your rheostat very carefully for any defects

F.H.S. (Lower Hutt): How many square centimetres in an inch?

A.: Centimetres are a linear measure, in other words they correspond with inches, not with square inches. Square centimetres correspond with square inch. There are roughly $2\frac{1}{4}$ centimetres in every inch and $6\frac{1}{4}$ square centimetres in a square inch.

2. About what is the size of my condenser with seven moving plates and eight fixed?—**A.:** Probably .00015.

3. Is the short-wave power-pack in the "Radio Guide" suitable for my set, and what will be the cost?

A.: It would provide more power than necessary for your set, but it would

be a good investment. If you made everything yourself it would cost you about £5.

T.N.G. (Waipukurau): Can you give me the name and address of a dealer from whom I could obtain spare parts for the Cossor Melody Maker?

A.: As these components are fairly readily obtained we would advise you to write to any of the city dealers who specialise in country orders. Quite a number of them do these days, and you should not have any trouble in getting what you require.

D.K.W. (Gisborne): Would the valves PM4DX and PM3 or Radiotron 230 be suitable for the Ranger Two using dry cells? If not, please suggest a combination.

A.: Both combinations are quite suitable, the new 230 Radiotron valves being 2 volts.

2. I would like to add a stage of r.f. Can you supply a circuit diagram of such using an ordinary r.f. valve?

A.: Yes. We will shortly publish a circuit that should suit you.

3. Would the Ranger Two give loud-speaker reception on the Australian and New Zealand stations using the combination of valves specified, or would a detector and two a.f. be better?

A.: If you want really satisfactory results from Australian and New Zealand stations you should use a three-valve set with a radio stage, such as that which we will describe in the near future. Such a combination is better than the det. two audio.

WINDSWEEP (Hataitai): A plopping sound has developed in my commercial eight-valve set. It was first noticed when the aerial was on, but now it can be heard still faintly with the aerial removed. All valves have been renewed recently with the exception of the 230, which is only about four months old.

A.: It sounds to be a condenser puncturing, although it may be your rectifier. It is a case where the serviceman should be called in. But first check up on a neighbour's reception to see if he notices it, for quite possibly it is outside interference.

A.P. (Otahuhu): I have built the Outspan Five, which is working well.
(Concluded on page 30.)

CORRESPONDENTS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington). Limit three questions, unless letter is accompanied by 1/- fee.

Name of set

Number of valves

Name

Address

.....

.....

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

- (1) Be specific and brief, tabulating, if possible.
- (2) Write legibly, and on one side of the paper.
- (3) We do not design circuits, but accept suggestions for feature articles.

Solving trouble, as different from advice, is difficult by correspondence and while letters are given every consideration, answers are not necessarily correct—they are only our opinion based on the matter supplied, which may be quite inadequate. Intricate and involved specifications cannot be supplied without a specialist's fee.

IF TRANSFORMERS WERE SOLD IN GLASS CASES!

A smartly-finished transformer case may cover a multitude of sins, and form a hiding place for scrap metal, poor wire, cardboard, string and pitch. Such transformers sell on outward appearance, Press "boosting" and low price, but how can one expect even a moderately good performance?

If transformers were sold in glass cases! Even to SEE the internal structure of a Ferranti transformer, with its skeleton formers, its air spaced sectionalised windings, and unmistakable precision workmanship, is to realise that there are many reasons for its world-wide reputation and great superiority.

Meanwhile the curve is the measure of a transformer's performance, and a study of published curves will lead ultimately to the choice of a Ferranti—the transformer with a pedigree and unrivalled performance.

FERRANTI

NEW ZEALAND AGENTS:

ARTHUR D. RILEY & CO., LTD.

WELLINGTON.

AUCKLAND.

A Diagnosis of Radio

The Aerial

THE word "aerial" implies something to do with the air, so that the proper definition of an aerial would be "a wire or collection of wires in the air to collect waves that come from the broadcasting station."

Generally speaking there are two types of aerals—an inside one and an outside one. An inside one may consist of wires slung about the room.



underneath the carpet or in the attic, but no matter how good an indoor aerial may be, it is not nearly as efficient as a good outdoor aerial. Of the outdoor aerals, there are two main types, the "T" aerial, the lead-in of which comes from the centre, and the "L" aerial, the lead-in of which comes from one end. The lead-in connects the aerial with the set, and when measuring it must be counted as part of the aerial. Here are some facts about aerals:—

1. The best aerial is vertical without any horizontal portion whatever.
2. The next best is the "L" shape as high as possible, with the top portion short in comparison with the lead. Altogether the total amount of aerial should not exceed 100 feet, although for small sets, it is sometimes advisable to have 200 feet or even more.
3. The more aerial you use the less selective your set becomes—in other words, you will find difficulty in separating one station from another.

Descriptive Non-technical Talks on the Elements of Radio

by

The Technical Editor.

This week we are starting a series of illustrated articles on the fundamentals of radio. We propose to take all the common parts of a wireless set and show both, by pictorial and theoretical diagrams, what they are, and in a few brief, non-technical sentences, to define them and then to say something about the working of each. It might be added that this series of articles is the outcome of several requests that we go back to the more elementary stages of home-construction, and we cannot do this until we have told constructors-to-be what it is all about. But these articles are not written up solely from a constructional point of view. They are intended to interest everyone who is interested in radio. We would like the expressed views of correspondents concerning them; whether they are too technical or not technical enough. If there is anything we appear to miss, and if the interested reader will merely write in and ask for it, we will give every consideration to its being included in this series. And now we start.

4. If the "T" aerial is used the effective length is that between the set and one mast, i.e., the flat top is equal to half the length of actual aerial minus the lead-in.

The aerial must be as clear from trees and buildings as possible. Trees have a screening effect upon the radio waves.

6. If there must be joints, see that they are soldered.

7. Have the aerial so that it can be let down for cleaning without lowering the masts.

8. Use plenty of insulators and ar-

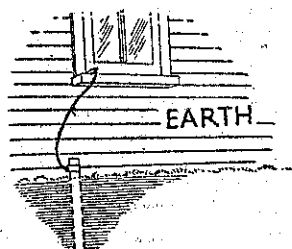
range so that the aerial proper is well away from the mast.

9. The most satisfactory wire is 7/22 enamelled.

The Earth

THE Americans call it "the ground."

The aerial may be regarded as a set of condenser plates and the earth as the other set. Therefore, it is as important to get as good a connection to the ground as to the aerial. Many modern sets automatically make their ground connections through the a.c. mains or through an eliminator. Sometimes you will find that by grounding an a.c. set you will get less strength



than if that connection is left off. Sometimes by putting the ground wire on the aerial terminal, better results are obtained. Here are some facts about the ground:—

1. The ground can be a water-pipe, a series of pipes or any metal buried in the ground.

2. In fillings, refuse, etc., is the best place to make an earth connection. Gravel is the worst.

3. The earth connection must be kept damp and fairly warm. Throw a bucket of salt water on it every few weeks.

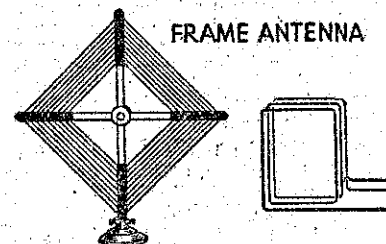
4. The diameter of the pipe used for ground connections is not important, but see that its connection with the earth wire is a good one. It is difficult to solder to a galvanised pipe, so

use a clean clamp. Take it off and polish it up occasionally.

There is little to be gained by driving a pipe more than 6 feet into the ground, or by filling a copper or any hollow conductor with charcoal or any carbon. It is a bad conductor.

The Frame Antenna

THE frame antenna is a device used indoors for picking up the waves from the wireless station. It is a kind of aerial, but it works on a totally different principle from the other types. It is really an enlarged coil of the set, and for this reason it cannot be connected between the earth and the earth terminals. It must supplant the

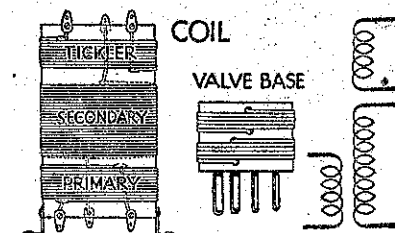


aerial coil and, like it, be tuned by a condenser. One side of the frame goes to the grid of the first valve and the other side to earth. When regeneration is used, that is, a system whereby energy is fed back into the detector coil to get greater strength, the frame antenna is tapped as is shown in the theoretical sketch alongside. A frame antenna is strongly directional and must point in the direction from which the radio waves are coming.

Coil Tuning

THE tuning coil may take one of very many forms, but the most common are those illustrated. The one on the left is usually known as a three-coil tuner, while the one on the right is a valve base coil. Two others are shown, a spiderweb coil and a tapped coil. Of course there are many others, and often there are only two coils, or even one, on the one former.

One of the functions of coils is to connect two circuits together electric-



ally, in such a way that there is no mechanical connection. Thus we have a primary and secondary, and energy is transferred from the primary to the secondary without any connection between the two. It sounds rather wonderful, but it is one of the things that makes radio possible. To get the most out of a set, a coil, which possesses "inductance," and the condenser, which possesses "capacity," must be combined. When a coil of known induct-

N.Z. RADIO HOBBIES CLUB

The above club has been formed to encourage and assist radio constructors. Simple circuits for beginners are supplied free to all members. There is no charge to join, and if you are interested send a stamped and addressed envelope to the Secretary, Box 163, Te Aro, Wellington, for your registration card and full particulars.

NOTE.—A neat club badge is now available to all members at 2/- each.

ance, or, if you like, of a certain size, is connected with a condenser of a certain capacity, that coil and condenser can receive only one frequency, and a frequency is what is used by broadcasting stations when they transmit.

If either the coil or the condenser is altered that combination will be ready to receive a wave of a different frequency, and that is how a set is tuned. We generally tune the secondary and its proximity to the primary causes that coil to come under the influence of the secondary and be tuned.

There are occasions when, to get greater strength, we feed back energy from the detector valve into the

which case there is no need to use the tickler coil. The coils would be a primary and a secondary.

The spider-web coils are wound in that peculiar fashion to reduce what is known as self-capacity. They are, however, going out of date.

The tapped coil is used generally in experimental sets and sometimes in crystal sets. It provides a means of connecting two circuits so that the optimum coupling between the two can be obtained by varying the tapping. Thus, if this coil is used as the first in the set, it might be found that it will be better with the aerial brought into "2" than if brought anywhere else.

Generally speaking, in commercial-wound tuning-coils, enamelled wire is used, and the sizes are kept very small. In amateur construction, it is usual to use d.s.c. or d.c.c. wire, of a gauge varying between 24 and 30 and on formers ranging from 1in. to 3in.

Choke Coil

secondary coil. Here is the way the current goes. From the top of the secondary it goes to the grid of the valve. From there it is amplified in the valve and goes into the plate. Now, from the plate, a certain amount of that energy is fed back to the tickler coil (found in "regenerative" circuits), where it is picked up by the secondary and passed through the valve again.

To regulate the amount of current that is fed back to the tickler we must have some means of control. We can alter the distance between the tickler and the secondary—called induction control (the familiar swinging coil of the Browning Drake)—resistance control, which controls the amount of voltage on the plate of the detector, or, what is more usual, the condenser. Lately the differential condenser has become very popular with constructors, for it is an admirable means of controlling the amount of energy fed back to the tickler coil.

On the valve base coil illustrated there are only two windings. This particular coil can be used either for a set that does not have any amplification before the detector and one in which the aerial is brought straight in on to the secondary coil (in which case the other coil would be the tickler) or it could be used for a stage that goes before the detector (radio stage), in

NEW SHIPMENT of Spaghetti Tubing

2 m/m., 4d. per yd.; 3 m/m. and 4 m/m., 5d.; 6m/m., 6d. per yd.

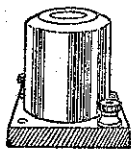
VALVES, Conder D.C. Type, 4-volt, .1 amp., 6/6 each, post free.

A.C. Type, Bond Valves:—			
226.	Were 13/-	Now	11/6
227.	Were 18/-	Now	15/6
224.	Were 27/-	Now	20/6
245.	Were 17/6	Now	14/6
280.	Were 25/-	Now	17/6
281.	Were 50/-	Now	39/6
Post Free.			

All new, tested and guaranteed.

BOB HORROBIN,
2 Courtenay Place, Wellington.
Quick Repairs Phone 22-357.

A **CHOKO** coil is a winding of wire which will allow low frequency current to pass, but will block the high frequency. It is the reserve of the condenser, so that the reader can see there are many possibilities with condenser and choke coil combinations. Technically speaking, a choke coil is one of great reactance or impedance. Its purpose is to limit the flow of alternating current at certain frequencies through the part of circuit in which the choke is placed. It is really a valve (not a wireless one). There are two types of chokes, radio (R.F.C.) and audio (A.F.C.). The radio choke can pass the highest frequency pulsations, but the audio choke will allow the lower frequency ones to pass. The high frequency or radio frequency chokes are usually of an air core type, that is to say, they are wound on a former like an ordinary coil and have no iron about them. For broadcast purposes a choke coil has about 1000 turns on a small former of about 1in.,

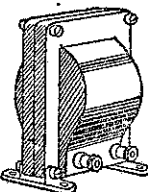


**CHOKO
RADIO**

but for shortwave 100 is ample. The main thing to see in purchasing a choke coil is that it has a sufficiently high inductance; 2500 microhenries is not too little for a good radio frequency choke.

Audio Frequency Choke

AUDIO frequency chokes always have an iron core. They are generally formed of layer windings of enamelled wire, although other wire is suitable.



**CHOKO
AUDIO**

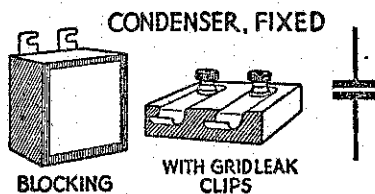
The gauge of wire is determined by the current to be passed. Their inductance varies between 25/500 henries according to their use. When built up they generally resemble an audio transformer. A smoothing choke, used in power packs, is usually made with

heavy wire, and has an inductance ranging between 25/100 henries. The iron used for the core is not continuous; in other words, it has a "gap" which varies in thickness between 1-32in. and 3-16in. Its function, like that of the "Radio Choke," is to keep the a.c. out of certain portions of the circuit.

Fixed Condensers

A **CONDENSER** is a piece of apparatus that can receive and hold an electrical charge. It is the only apparatus that can do so. A battery cannot, it merely changes the form of the electricity. A condenser consists of two sets of plates arranged so that they cannot touch one another. The set connected with the power are the positive plates, and the others, which usually go to the ground or some other similar point, are known as the negative plates.

In ordinary fixed condensers, such as those illustrated, the plates are really long strips of tinfoil, and to prevent them from touching, waxed paper is placed in between them. All four (the



two plates and the two lots of waxed paper) are wound spirally on a machine and then placed in the case pictured. The amount of plate determines capacity—in other words, the capacity is an indication of the amount of current that a condenser can hold. The distance the plates are apart, or the material used for separating them, determines the voltage at which the condenser breaks down. By "breaking down" we mean the puncturing of the insulating substance (called the dielectric), and consequently the ruination of the condenser. To be on the safe side condensers are always tested

for a higher voltage than they actually have to work with. Here are some of the uses for condensers:—

1. **Blocking condensers.** Although this name does not strictly apply to one class, it usually means condensers of a fairly big capacity, that is, .001 to perhaps 2 mfd., used for preventing the flow of direct current in any portion of a receiver. It is a remarkable fact that though a condenser will stop a flow of ordinary electric current (D.C. or low-frequency A.C.), it will allow radio waves to pass or, as we call them, high-frequency currents. Thus, if we put a condenser in a stream of direct or low-frequency A.C. current in which is present high-frequency current, the high-frequency will go through the blocking condenser, but the ordinary current will be blocked. Thus we call this type of condenser a blocking condenser, although it is really no different from the others. Examples: Filter circuits, a.f. coupling condensers in r.c. amplifiers.

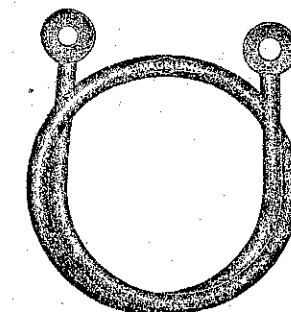
2. **Smoothing condensers.** These are usually large capacity condensers, from 1 to 2000 or more mfd. used in power apparatus such as eliminators, to smooth out the ripple and make the supply pure. These have usually a high break-down voltage, often many thousands of volts.

3. **By-pass condensers.** These may be of any capacity from .0005 up, and usually do not have a very high break-down voltage. They are used in many different places in the circuit to provide a channel for unwanted high-frequency current to pass round some obstacle such as a choke or battery. Examples: Across batteries, transformers, resistances, etc.

4. **Grid condensers.** A condenser of suitable capacity usually between .0001 and .0003. If one of these is placed in the grid circuit of a valve and a grid leak is associated with it that valve becomes a detector and will pass current in one way only.

All condensers are shown by the one theoretical symbol—two thick lines. When sets are hard to stabilise by-pass condensers placed in the right place will do much to steady them.

New Lines



Magnum Spaghetti Resistances suitable for any part of the set, wire wound, and flexible.
500 ohms. To carry 30 millamps.
600 ohms. " 30 "
1600 ohms. " 30 "
1500 ohms. " 30 "
2000 ohms. " 30 "
Each 2/6.

Bulgin decoupling resistances, 600 ohms., 1000 and 2000 ohms., non-inductively wound; will pass 30 M.A. Each—2/6

Graham Farish Anode Resistances, 10,000, 20,000, 30,000, 50,000, 100,000 and 500,000 ohms., to pass 10 M.A.— 3/- each

Morse Keys, heavy duty R.A.F. type—
Spaghetti Sleeving, 1 1/2 and 2 m/m diameter. Per yard length—4d. each.
Bulgin New Type Crocodile Clips, lead coated— 2d. each.
Lotus .0005 and .00035 Variable Condensers— 7/6 each.
Utility Micro Dials, 100 to 1 ratio; single hole mounting— 17/6 each.
Ormond Cabinet Loud Speakers, Well finished— 50/- each.
SPECIAL—5-valve King Neutrodyne Set, Trade in, with valves— £24/10/-

STANDARD VOLTAGE DIVIDERS.

15,000 and 25,000 ohm with Variable Tap. each 6/6.

Extra Clip 6d. each.



F. J. W. FEAR & Co.

63 WILLIS STREET
(Telegraph: "Fear.")

WELLINGTON.

FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

From 1YA

A PORTION of the organ recital to be given in the Town Hall by Mr. Maughan Barnett will be included in the afternoon relay. In the evening, divine services will be relayed from St. Matthews' Church. Canon Grant Cowan being the preacher, with M. J. H. Philpott as organist and choir-master. Afterwards, the Municipal Band concert, to be given in the Auckland Town Hall, will be broadcast.

Wellington Notes

THE evening service to be conducted in St. Gerard's Redemptorist Church will be broadcast. At 8.15 p.m., approximately, a concert by the Royal Naval Volunteer Reserve Band, under the conductorship of Mr. H. Baker, will be relayed from the De Luxe Theatre.

3YA Topics

THE Sacred Cantata, "The Wondrous Passion," to be performed at East Belt Methodist Church, Christchurch, on Sunday afternoon, will be broadcast.

The choir conductor will be Mr. J. Chaplin, and the organist Mr. A. M. Owen. In the evening the church service will be broadcast, the Rev. Edward Drake being the preacher.

Notes from 4YA

THE service in First Presbyterian Church, Moray Place, will be broadcast. The Rev. W. Allan Stevely

will be the preacher, with Dr. V. E. Galway at the organ. Afterwards a concert will be relayed from 3YA studio.

MONDAY

Auckland Topics

DURING the afternoon the station will be on the air to broadcast results of the Taumarunui Racing Club's meeting, to be held at Ellerslie racecourse.

2YA Notes

LISTENERS will have the opportunity of hearing the whole of a grand opera. Signor Lucian Cesaroni's Operatic Company will present Mascagni's celebrated "Cavalleria Rusticana" in its entirety, and a fine production is assured.

Signor Cesaroni will sing the "Prologue" from "I Pagliacci" (by Leoncavallo), and Alfred Hill's powerful song "Tangi." Mr. Gordon Short will play Moszkowski's brilliant "Polonaise."

Christchurch Programme

SEVERAL new radio artists will be featured on the programme to be given from 3YA by the Woolston Band, under Mr. R. J. Estall. Among these will be S. J. Goslin (baritone), a Christchurch music teacher, with London training, who was a prize-winner at the recent Christchurch Competitions.

Items from Dunedin

THE speaker for the International Programme, Mr. J. Crossley Clith-

eroe, Lecturer on Music at the Dunedin Training College, will take as his subject "The International Kinship of Music."

TUESDAY

Auckland Features

THE speaker for the International Programme at 1YA will be the Rev. W. G. Monckton, M.A. Mr. Monckton, who is one of the best-known lecturers in Auckland, will take for his subject "The Human Element in the World Economic Position."



MARIE GAUDIN, whose one-act play, "The Waterfall," will be broadcast from 1YA on Wednesday next.
—S. P. Andrew, photo.

Items from 2YA

THE studio programme will be of the popular type. The introduction of a new combination, "The Radio Three," who will be heard in vocal and piano novelty numbers, will be a feature of the programme. Mrs. E. Ransom Myers (mezzo-soprano) will delight listeners in three songs with orchestral accompaniment.

Dunedin Notes

AN exceptionally popular programme by the Kaikorai Band will be presented from 4YA, all the items being of a most entertaining nature. The vocal portion will be provided by a male quartet called the "Four Aces." None of the concerted efforts by this combination has previously been performed before the microphone. An opening and a closing chorus, both composed by local musicians, as well as a very fine male quartet composition en-

Featurettes

"The Wondrous Passion"
3YA, Sunday.

"Cavalleria Rusticana"
2YA, Monday.

Kaikorai Band
4YA, Tuesday.

Two One-Act Plays
1YA, Wednesday.

Sydney Hoben (pianist)
2YA, Thursday.

Old-Time Night
4YA, Friday.

Caledonian Pipe Band
3YA, Saturday.

titled "A Little Close Harmony," are also included amongst the items. Various members of the party will provide popular solos.

The well-known instrumental trio consisting of Messrs. Pettitt, Law and Hunter, will also be in attendance and will play musical comedy selections in addition to the latest song hits. Figuring among the band items are two excellent selections, "Trafalgar" (arranged by Ord Hume) and Mozart's "Magic Flute." The "Trafalgar" selection, a very recent publication, is a band item which has not been broadcast before in New Zealand. The nautical airs which it contains are not retained in an orthodox manner, but in strict counter-point, thus attaining an ultimate brilliant effect. A section of this selection is allocated to the well-known ballad "The Death of Nelson." This particular item, besides being something new to listeners, is something new also to the brass band world. Rimmer's finest band contest march, "The Cossack," will be the concluding item to this extremely varied programme.

WEDNESDAY

Features from Auckland

FROM 12.30 to 1.30 p.m. the community singing at the Auckland Town Hall will be broadcast. At 2.30 1YA will broadcast the official opening of the Auckland Winter Exhibition, and during the following days will relay items of interest from the exhibition.

The 1YA programme will consist of two one-act plays to be given by Zoe Bartley-Baxter and her company. One, "The Waterfall," an incident of New Zealand Bush Life, was written by Marie Gaudin, of Auckland.

Other items will be soprano solos by Mrs. H. Timmings, a piano solo by Cyril Towsey, instrumental items by Miller's Banjo Quartet, saxophone solos by Bert Kingsland, and solos by D. Edgar Thomas, a Welsh baritone, who is making his first appearance at this station.

**HAMS!
DEALERS!
EXPERIMENTERS!**

Read This

We have pleasure in announcing that we have been appointed wholesale and retail distributors for the well-known quality products manufactured by

STANDARD TELEPHONES & CABLES (AUST.) LTD.

We can give immediate delivery on all lines. Send for Price List.

L. B. SCOTT LTD.

MANCHESTER AND WORCESTER STS., CHRISTCHURCH.

From Wellington

AN international programme will be presented, Dr. Guy H. Scholefield being the lecturer.

Christchurch Topics

RELAYED from Dunedin and broadcast by 3YA and 4YA, will be a dialogue by Mr. R. B. Tennent and Mr. L. W. McCaskill on "Farmer Brown Decides to Grow Lucerne."

On the popular programme there will be two singers—Mrs. Lillian Sommers (dramatic soprano, a teacher of singing in Christchurch), and Mr. Charles Dewhurst (bass, late of the Humphrey Bishop Company). "The Two Rascals" will present a vaudeville turn, while Bloy's Banjo Band will provide twenty minutes of popular music. Pianoforte solos will be played by Miss Aileen Warren, and trios by the Christchurch Broadcasting Trio.

4YA Selection

A RELAY from His Majesty's Theatre, Dunedin, of a concert by the Orchestral Society will be conducted by 4YA. Gaynor Paape, one of the soloists, who is making her debut to Dunedin's orchestral public, is the possessor of a brilliant soprano voice of exceptional range.

THURSDAY

Auckland Notes

THE studio concert will be given by the Auckland Society of Musicians, whose last programme at this station created very favourable comment. Two well-known Auckland vocalists appear on the programme, Patricia McLeod (lyric soprano) and A. B. Thompson (an artistic baritone who will sing several numbers from Arthur Somervell's setting of Tennyson's "Maud").

Broadcast from 2YA

THE studio concert will be given by the Wellington Artillery Band and 2YA artists. Items that should prove of interest will be three songs to be sung by Mr. R. J. Madigan (bass).



MR. H. BOOTH,
Dominion Organiser of the Radio
Listeners' League.



Mr. Les. Croft, a very versatile entertainer. He can play almost any instrument, but is best known to 3YA listeners as an exponent of mouth-organs. He is also a member of the New Brighton Municipal Band.
—Steffano Webb, photo.

"Ochone, Bridger O'Flynn," "Katie McGee," and "The Bosun's Advice," all three written and compiled by Mr. Harry Coventry, a local writer, who has already a reputation as a popular song writer. Also on the programme will be a piano recital by Sydney Francis Hoben, who has chosen for his numbers "On Wings of Song" (by Mendelssohn-Liszt), "Minstrels" (by Debussy), and "Dance Negro" (by Cyril Scott).

Notes from 3YA

THE Melodious Four will sing a number of concerted songs, including two negro spirituals, an old English song "To the Maypole," and the old favourite "Sweet and Low." Soprano solos will be contributed by Frances Hamerton and mezzo-contralto songs by Millicent Jennings.

FRIDAY

From Auckland

AT 7.40 the usual weekly Sports Talk will be given.

The Orchestral Octet, under the direction of Mr. Harold Baxter, will provide the instrumental portion of the evening's programme. Among the numbers will be "Cobweb Castle," "The Arcadians" selection, and "Carmen" ballet music. Miss Rita Thomas, a well-known contralto, is making her first appearance at this station as a soloist in a number of ballads, and Miss Edna Thomas will give humorous items. Tenor solos will be sung by Mr. J. Ainsley Daglish, already well known for his artistic singing, and Mr. Simon Philippoff has been engaged to give items on the balalaika.

Wellington Notes

THE morning talk will be on "Fashions," while at 7.40 p.m. Mr. J. W. Fergie will speak on "The Romance of the Main Trunk Railway."

A variety programme will be presented by the orchestra, under Signor A. P. Truda, their numbers including the overture to "The Bohemian Girl," the selection "Rainbow," the suite "Eastern Pictures," the Spanish march "Bunch of Roses," and the march song

"Mirella." Dorrie and Laurie, a bright and breezy couple, will delight listeners in up-to-date songs and stories.

From 3YA

A TALK by Mr. A. M. Hollander, given under the auspices of the Canterbury Manufacturers' Association, will be broadcast.

The Dulcet Quartet will be the vocalists during the evening programme, singing concerted and solo numbers. Piano novelties will be contributed by Miss Masie Ottey. The orchestral programme will be provided by the Studio Octet, which will also provide accompaniments for many of the vocal numbers.

Dunedin Notes

"SONGS of Other Days" will be the title of the programme presented from the studio this evening. In addition to the popular Daggs Band, five very fine vocalists will appear, singing old-time songs. Numbers such as "Ta-Ra-Ra-Boom-dee-Ay," "McGinty's Return," "My Mother's Old Red Shawl," "Bank of Monte Carlo," "The Miner's Dream of Home," and "The Little Old Log Cabin in the Lane," are a few of the items which will be performed on this programme.

SATURDAY

Auckland Notes

THE concert to be given from the Auckland Town Hall by the Municipal Band, under the direction of Mr. George Buckley, will be relayed. The soloists for the programme will be Messrs. F. Bowes and J. Davies (cornet duettists), Hal. C. McLennan (flautist), and Roland Jackson (xylophonist).

2YA Features

A W.E.A. lecturette by Mr. A. D. McIntosh, M.A., entitled "Traffic and World Affairs" will be broadcast. The Melodie Four will supply the major portion of the vocal items on the evening's programme. The Salon Orchestra, under Mr. M. T. Dixon, will supply the incidental music and the latest dance novelties.

Christchurch Notes

A FEATURE of the evening's programme (which will also be broadcast by 4YA) will be the items to be contributed by the Caledonian Society's Pipe Band. Each selection will be introduced with a few explanatory remarks by Piper McDiarmid (late of the Black Watch). All Highland tunes have a history, the telling of which will greatly enhance the interest of listeners.

Australian Programmes

Thursday, July 2.

STATION 2FC 9.40 p.m., 10.4 p.m., 10.51 p.m. and 11.29 p.m., The Rainbow Choir. 9.57 p.m. and 11.0 p.m. Daisy Richards, violiniste. 10.18 p.m. and 11.18 p.m. Carl Morris, pianist. 2BL, 9.30 p.m., Franco Izal, famous Spanish baritone, in a radio presentation of Gounod's well-known opera "Faust." 3LO, 9.30 p.m., "Jack and Jill Property," Unlimited—a novelty entertainment. 10 p.m., dance items, interspersed with variety numbers.

Friday, July 3.

STATION 2FC, 9.37 p.m. and 10.6 p.m., Reg. Len, and a piano. 9.44 p.m., Clive Amadio, saxophonist. 9.51 p.m. and



MILLICENT JENNINGS,
a 3YA mezzo-contralto soloist and a
member of the Melodious Four.

10.12 p.m. Alard Maling and Fred Whaithe, piano and bell novelty. 10.45 p.m., relay of orchestral concert from 3LO, Melbourne.

2BL, 9.30 p.m., trio for violin, cello and piano. 10.11 p.m., Dorothy Gibbs, pianiste. 10.24 p.m., Gladstone Bell, cellist. 10.30 p.m., The A.B.C. Players present "A Front Page Story," a one-act drama. 11.25 p.m., Clive Amadio, saxophonist.

3LO, 9.30 p.m., concert by the A.B.C. Wireless Symphony Orchestra and assisting artists.

Saturday, July 4.

STATION 2FC, 9.30 p.m., relay from 3LO, Melbourne of programme commemorating America's Independence Day. 2BL, 9.37 p.m. and 11.17 p.m., "The Three Girl Friends." 9.40 p.m., Vernon and his Valet. 10 p.m., description of boxing contest at Sydney Stadium. 11 p.m. and 11.30 p.m., John Stuart, comedian.

3LO, 9.30 p.m. and 9.53 p.m., the A.B.C. Orchestra. 10 p.m., "Abraham Lincoln," the well-known play by John Drinkwater.

Full Programmes for Next

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

Sunday, July 5

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, JULY 5.

- 2.0 : Chimes. Relay of portion of Organ Recital by the City Organist, Mr. Maughan Barnett, from the Auckland Town Hall, interspersed with studio items.
6.0 : Children's Song Service, conducted by Uncle Bert.
7.0 : Relay of Evensong from St. Matthew's Church. Preacher, Canon C. H. Grant Cowan. Organist and Choirmaster, Mr. J. H. Philpott.
8.30 (approx.) : Relay of Municipal Band Concert from the Auckland Town Hall.
10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JULY 5.

- 3.0 : Afternoon session of selected gramophone recordings.
6.0 : Children's Song Service, conducted by Uncle George, and assisted by the Children's Choir from the Aro Street Methodist Mission.
7.0 : Relay of Evening Service from St. Gerard's Redemptorist Church, Hawker Street.
8.15 (approx.) : Relay of Band Recital by the Royal Naval Volunteer Reserve Band from the De Luxe Theatre (Conductor, Mr. H. Baker).
God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, JULY 5.

- 3.0 : Relay of the East Belt Methodist Church, Fitzgerald Avenue. Presentation of the Sacred Cantata, "The Wondrous Passion" (Fred. W. Peace). Soloists: Soprano, Miss Gladys Brooks; Contralto, Mrs. J. W. Palk; Tenor, Mr. Ernest Rogers; Baritone, Mr. Robert Lake. Preacher, Rev. Edward Drake. Choir Conductor, Mr. J. Chaplin. Organist, Mr. A. M. Owen.
4.15 : Musical recordings from studio.
5.30 : Children's Song Service by Children of the Methodist Church.
6.15 : Chimes from studio.
6.30 : Relay of Evening Service from East Belt Methodist Church, Fitzgerald Avenue. Preacher, Rev. Edward Drake. Choir Conductor, Mr. J. Chaplin. Organist, Mr. A. M. Owen.
7.45 : Musical items from the studio.
8.15 (approx.) : Instrumental—Studio Octet (Conductor, Harold Beck), (a) "March" (from "The Nutcracker Suite") (Tschaikowsky); (b) "Prometheus" Overture (Beethoven).
8.23 : Soprano—Miss Addie Campbell, with orchestral accompaniment, "Shadow Song" (from "Dinorah") (Meyerbeer).
8.29 : Violin—George Kulenkampf, (a) "Danse" (Scott); (b) "La Capriccioso" (Ries) (Polydor 95073).
8.37 : Tenor—Mr. Ernest Rogers, with orchestral accompaniment, "Lend Me Your Aid" (Gounod).
8.41 : Cello—Pablo Casals, "Goyescas" Intermezzo (Granados).
8.45 : Mezz-contralto—Miss Millicent Jennings, with orchestral accompaniment, (a) "Ave Maria" (Mascheroni); (b) "A Request."
8.51 : Instrumental—Studio Octet, (a) "Polka" (Bantock); (b) "Prize Song" (Wagner); (c) "Danse Orientale" (Lubomirsky).
9.3 : Evening weather forecast and station notices.
9.5 : Instrumental—Studio Octet, Grand Opera Selection, "Madame Butterfly" (Puccini).
9.13 : Soprano—Miss Addie Campbell, with orchestral accompaniment, (a) "Ave Maria" (Gounod); (b) "Indian Love Call" (Friml).
9.21 : Piano—Irene Scharrer, "Andante and Rondo Capriccioso" (Col. D0282).
9.27 : Tenor—Mr. Ernest Rogers, with orchestral accompaniment, (a) "All Hail, Thou Dwelling" (from "Faust") (Gounod); (b) "Soft and Pure" (from "Martha") (Flotow).
9.33 : Male choir—Ural Cossacks, (a) "Legend of Twelve Robbers," (b) "Evening Bells" (Traditional) (Polydor 19798).
9.41 : Instrumental—Studio Octet, "Entr'acte and Valse" (Dellbes).
9.47 : Mezzo-contralto—Miss Millicent Jennings, with orchestral accompaniment, (a) "Daddy" (Behrend); (b) "Ashoo at Her Lattice."
9.54 : Band—H.M. Coldstream Guards, "Les Cloches de Corneville." God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JULY 5.

- 3.0 : Afternoon session.
5.30 : Children's Song Service, conducted by Big Brother Bill.
6.15 : Instrumental Recordings.
6.30 : Relay of Evening Service from First Presbyterian Church, Moray Place, Dunedin. Preacher: Rev. W. Allan Stevely, M.A. Organist: Dr. V. E. Galway.
7.45 : Selected Recordings.
8.15 : Relay of Concert programme from Station 3YA, Christchurch.
10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, JULY 5.

- 6.0 to 6.45 : Children's Sunday Service.
8.15 to 10.0 p.m. : Concert programme.

Monday, July 6

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, JULY 6.

- 11.45 : Announcing results of Taumarunui Racing Club's Meeting held at the Ellerslie Racecourse, interspersed with selected recordings.
5.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, JULY 6.

- 10.0 : Chimes. Selected gramophone recordings.
11.12 : Lecturette—"Cooking."
11.37 : Lecturette—"Health Hints or First Aid."
12.0 : Lunch music session.
2.0 : Chimes. Selected items.
3.30 and 4.30 : Sporting results to hand.
5.0 : Children's session, conducted by Uncle Jeff.
6.0 : Dinner music session—
Dajos Bela Orchestra, "Gypsy Love" (Lehar) (Parlo. A4080).
Edith Lorand's Orchestra, "La Boheme" (Puccini) (Parlo. E10558).
New Light Symphony Orchestra, "The Waltzing Doll" (Poldini).
Dajos Bela Orchestra, "Mon Reve" (Waldteufel) (Parlo. E10560).
Organ duet—Mr. and Mrs. Jesse Crawford, "The Moonlight Reminds Me of You" (Kahn) (H.M.V. EA768).
Dajos Bela Orchestra, "I Love You" (Waldteufel) (Parlo. E10560).
National Symphony Orchestra, "The Barber of Seville" (Rossini).
Dajos Bela Orchestra, "You and You" (Strauss) (Parlo. A4080).
Mandoline Concert Society, "Echoes of the Volga" (Ritter).
New Light Symphony Orchestra, "At Dawning" (Cadman).
Band of H.M. Coldstream Guards, "Les Cloches des Corneville" Selection (Planquette) (H.M.V. C1880).
Dajos Bela Orchestra, "Vienna Bon Bons" (Strauss).
7.0 : News session, market reports and sports results.
7.40 : Lecturette—Mr. H. C. South, "Books—Grave and Gay."
8.0 : Chimes. Overture—Marek Weber's Orchestra, "Cavalleria Rusticana" Selection (Mascagni) (H.M.V. C1736).
8.13 : Bass with male chorus—Signor Lucien Cesaroni, "Praise of God" (Beethoven); Prologue from Pagliacci (Leoncavallo).
8.23 : Production of Mascagni's Celebrated Grand Opera, "Cavalleria Rusticana," by Signor Lucien Cesaroni's Operatic Company. Cast: Santuzza (soprano), Miss Eunice Standen; Lola (soprano), Miss Janet Stirling; Lucia (contralto), Mrs. H. Maplesden; Turridu (tenor), Mr. Ray Trewern; Alfio (baritone), Mr. George Gray; The Sacristan (baritone), Mr. Owen Pritchard; Chorus of Peasants of Sicily.
9.40 : Ballet music—Parlophone Salon Orchestra, "La Source Ballet Music" (Delibes—arr. Weninger); (1) "Pas des Escharpes," (2) "Scene D'Amour," (3) "Variation," (4) "Dance Circassienne."
9.48 : Soprano—Miss Eunice Standen, "Cuckoo" (Lehmann).
9.51 : Piano—Mr. Gordon Short, "Polonaise" (Moszkowski).
9.57 : Bass—Signor Lucien Cesaroni, "Tangi" (Alfred Hill).
10.0 : Dance programme (Brunswick)—
Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "Hangin' on the Garden Gate" (Kahn) (4698).
Ben Bernie and His Orchestra, "Have a Little Faith in Me."
Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad) (4698).
Waltz—Castlewood Marimba Band, "Springtime, Lovetime, You."
Foxtrots—Colonial Club Orchestra, "I Never Dreamt" (Parsons).
Bob Haring and His Orchestra, "I'm in the Market for You."
10.18 : Vocal trio—Earl Burtnett's Biltmore Trio, "If I Can't Have You."
Foxtrots—Tom Clines and His Music, "So Sympathetic" (Kahn).
Ben Bernie and His Orchestra, "Let Me Sing and I'm Happy."
Tom Clines and His Music, "Alone with My Dreams" (Kahn).
Waltz—Castlewood Marimba Band, "Melancholy Moon" (Ford).
10.33 : Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Just Another Night With You" (Newman) (4797).
Tom Clines and His Music, "The Free and Easy" (4760).
Lloyd Huntley and His Isle o' Blues Orchestra, "Take Me."
Vocal trio—Earl Burtnett's Biltmore Trio, "Out of the Past" (4019).
10.45 : Foxtrots—Colonial Club Orchestra, "I'm on a Diet of Love" (Gilbert) (4739); "Like a Dream" (Rose) (4763); "We'll Build a Little World of Our Own" (Brockman) (4739).
Bob Haring and His Orchestra, "Just Like in a Story Book."

Week-all Stations-to July 12

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

Waltz—Tom Chines and His Music, "It Must Be You" (Turk) (4769).
11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, JULY 6.

- 3.0 : Gramophone recital.
4.25 : Sports results.
5.0 : Children's hour.
6.0 : Dinner music session (Polydor)—
Symphony Orchestra, "Die Fledermaus" (Strauss) (27178).
Paul Godwin's Orchestra, "Japanese Cherry Blossom Festival" (Yoshitomo) (19747); "Egyptian March" (Strauss) (19647); "The Circus Princess" (Kalman) (19640).
Ilja Livschakoff and His Orchestra, "Estrellita" (Ponce, Davis) (23047).
Paul Godwin's Orchestra, "Japanese Lantern Dance" (Yoshitomo).
State Opera Orchestra, Berlin-Charlottenburg, "La Gazza Ladra."
Paul Godwin's Orchestra, "Spring's Awakening" (Bach) (19647).
Ilja Livschakoff and His Orchestra, "Pas Des Escharpes" (Chaminade).
Paul Godwin's Orchestra, "Third Waltz Melody" (Robrecht) (27177).
7.0 : News session.
7.30 : Talk—Mr. E. E. Wiltshire, President of Linwood Library, "Books of the Month."
8.0 : Chimes. Band programme by the Woolston Brass Band (Conductor, Mr. R. J. Estall) and 3YA artists:

- March—Band, "Punchinello" (Rimmer); selection, "Hamlet" (Thomas).
8.15 : Baritone—Mr. S. J. Goslin, (a) "An Emblem" (Thompson), (b) "Doreen" (Allon).
8.22 : Banjo—Michele Ortuso, (a) "Teasin' the Frets" (Collocchis), (b) "Lollipop" (Reser) (H.M.V. B3651).
8.28 : Soprano—Miss Phyllis Coombs, (a) "An Open Secret" (Woodman), (b) "Advice" (Carew).
8.33 : Cornet—Bandsman R. Ohlson and Band, "Redcap" (Moss).
Light selection—Band, "Humoresque" (Dvorak).
8.44 : Humour—Mr. T. Cumming, "The Chairman's Remarks."
8.49 : Balalaika—Balalaika Orchestra, Gorskaja, (a) "The Red Sarafan," (b) "Immer Lustig" (traditional) (Polydor 20587).
8.55 : Mezzo-soprano—Miss Adela Wellard-King, "Orpheus With His Lute."
9.2 : Evening weather forecast and station notices.
9.4 : Suite de Concert—Band, "Demande and Response" (Coleridge-Taylor).
9.11 : Baritone—Mr. S. J. Goslin, "Bonnie Scotland, I Adore Thee" (Moffat).
9.15 : Male choir—Westminster Glee Singers, (a) "Nellie Gray" (arr. Branscombe), (b) "Breeze of the Night" (Lamothe) (Parlo. A2992).
9.21 : Valse—Band, "Dancing With Tears in My Eyes" (Burke).
9.26 : Soprano—Miss Phyllis Coombs, (a) "Just Because the Violets" (Kennedy Russell), (b) "Lullaby" (Brahms).
9.31 : Orchestral—Orchestra Mascotte, (a) "Woodland Joys" (arr. Lindstrom), (b) "The Faithful Hussar" (Frantzen) (Parlo. A3120).
9.37 : Humorous recitation—Mr. T. Cumming, "The Broken Bowl" (Mertin).
9.42 : Overture—Band, "Anne Bollini" (Donizetti).
9.52 : Mezzo-soprano—Miss Adela Wellard-King, (a) "Berceuse" (Arensky), (b) "The Lotus Flower" (Schumann).
9.57 : March—Band, "Ravenswood" (Rimmer).
God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, JULY 6.

- 3.0 : Selected recordings.
5.0 : Children's hour, conducted by Uncle Jack.
6.0 : Dinner music session (Polydor)—
Paul Godwin's Dance Orchestra, "Medley of Popular Student Songs."
Paul Godwin's Quintet with harp—"Extase" Reverie (Ganne) (19928).
Paul Godwin's Orchestra, "Poranek" Waltz Intermezzo (Lindsay).
Organ—Leo Stin, "Chanson Hindoue" (Rimsky-Korsakov) (23165).
Polydor Orchestra, "Cocou—Imitative Waltz" (Jonasson) (23563).
Paul Godwin's Orchestra, "In the Rosary" (Bislezki) (21005); "Tin Soldiers' Parade" (Jessel) (19059).
Berlin State Opera House Orchestra, Introductions Acts 1, 2, and 3 from "Carmen" (Bizet) (27190).
Paul Godwin's Quintet with harp, (a) "Popular Song," (b) "Tale."
Paul Godwin's Orchestra, "La Serenade" Waltz (Metra) (22872).
Organ—Leo Stin, "Werther" (Massenet) (23165).
Paul Godwin's Orchestra, "Fairy Doll Waltz" (Bayer) (21005).
Paul Godwin's Dance Orchestra, "Siamese Parade" Fantasy (Lincke).
Polydor Orchestra, "Valse Poudree" (Popy) (23563).
7.0 : News session.
8.0 : Chimes. Dr. Eugene Ormandy and His Salon Orchestra.
International Singers.
Ambassadors of Melodyland.
Abroad with the Lockharts.
Weather report.
International Talk—Mr. J. Crossley Clitheroe, Lecturer in Music at the Dunedin Training College, "The International Kinship of Music."
Hywide and Handsome.
Nat Brusloff and His Lido Venice Orchestra.
God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, JULY 6.

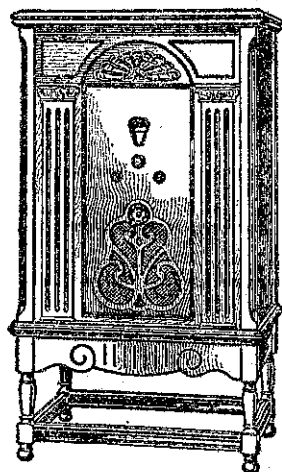
3.0 to 10.0 p.m.: Concert programme.

Tuesday, July 7

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, JULY 7.

- 3.0 : Chimes. Selected recordings.
3.15 : Talk—Mrs. Leslie Crane, "Beauty of Mind and Body in Relation to Diet."
5.0 : Children's session, conducted by Uncle Dave.
6.0 : Dinner music session (Columbia)—
The Classic Symphony Orchestra, "Raymond" Overture (Thomas).
Band of the Garde Republicaine, "The Two Pigeons" (Messenger). (1) "Entrance of Tziganes"; (2) "Scene and March of the two Pigeons."

MAKING A MILLION RADIOS A DAY



NO. 5 REPEATER
GRAMOPHONE RADIO.
COMBINATION.

A feature of the Wellington
Radio Exhibition.

STEWART WARNER RADIO

Screen-Grid Circuit

One of these days you'll hear that some one manufacturer is building 1,000,000 radios a day. That will not surprise you—nor us. For anything is possible in 1931.

Stewart-Warner is concerned this year, and, in fact, each year, with only two phases of radio receiver manufacturing—that its products shall be up-to-date and abreast of all modern tried, tested improvements; and that every owner shall be proud of his radio by reason of his proper satisfaction with the splendid performance it puts up for him and his guests. Stewart-Warner will never produce sets on the basis of nuts and bolts. It could not thus do justice to the fine sensitively-balanced design of its engineers.

Happy is the host or hostess at any social gathering when Stewart-Warner Radio entertains. A turn of the dial, simple as setting a watch, brings music of famous orchestras—renditions by famous artists—features without end. The selectivity, volume and remarkable life-like tone of the new Stewart-Warner Radio will surprise and delight you.

Full-voiced Console Radios and Radio Gramophones at prices you'll be glad to pay.

KNOWN THE WORLD OVER AND SOLD IN
NEW ZEALAND BY A HUNDRED DEALERS.

Radio
AUCKLAND

Hope Gibbons Ltd
CHRISTCHURCH

Division
WELLINGTON

Herman Finck's Orchestra, "Schubertiana" (arr. Finck) (32721).
 Musical Art Quartet, "To a Wild Rose" (McDowell) (01506).
 The Rhythmic Troubadours, "Song of the West" Selection.
 London Theatre Orchestra, "Maid of the Mountains" Selection.
 Rhythmic Troubadours, "Puttin' on the Ritz" Selection.
 Rio Novelty Orchestra, "Spaventa" Tango (Pares and Van Parys).
 Herman Finck's Orchestra, "Schubertiana" (arr. Finck) (02722).
 Musical Art Quartet, "Mighty Lak' a Rose" (Nevin) (01506).
 Rio Novelty Orchestra, "Mientras Lloro el Tango."

7.0 : News and market reports.

7.40: Talk—"Sparwood" of the "New Zealand Referee," "Dogs."

8.0 : Chimes. Specially Recorded International Programme.

Dr. Eugene Ormandy and His Salon Orchestra.

International Singers.

Ambassadors of Melodyland.

Abroad with the Lockharts.

Weather report.

International talk—The Rev. W. G. Monckton, M.A., "The Human Element in the World Economic Position."

Hywide and Handsome.

Nat Brusiloff and His Lido Venice Orchestra.

God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, JULY 7.

10.0 : Chimes. Selected gramophone recordings.

11.12: Lecturette—"Fashions."

11.37: Lecturette by a Representative of the Plunket Society.

12.0 : Lunch music session.

2.0 : Educational session.

3.0 : Chimes. Relay from the Town Hall of the Convention of League of Mothers.

4.0 : Selected gramophone recordings.

4.30: Sporting results to hand.

5.0 : Children's session, conducted by Uncle Toby and Jumbo.

6.0 : Dinner music session.

Scala Concert Orchestra, "The Merry Widow" Waltz (Lehar).

Edith Lorand Orchestra, "Norma" Fantasia (Bellini) (Parlo. A4011).

Piccadilly Salon Orchestra, "Serenade Espagnole" (Glazounov).

Polydor String Orchestra, "Offenbachiana" (Conradi-Daebnitz).

The Scala Trio, "Moment Musical" (Schubert) (EB909).

Scala Concert Orchestra, "A Waltz Dream" (Strauss) (EB1361).

Symphony Orchestra, "La Tosca" Selection (Puccini) (Broadcast 320).

Piccadilly Salon Orchestra, "Les Millions D'Arlequin" (Drigo).

Edison Bell Symphony Orchestra, "Gold and Silver" (Lehar).

Jack Paddybury's Cosmo Club Six, "Enchantment" Tango (EB1372).

Band of H.M. Life Guards, "The Arcadians" (Monckton).

The Scala Trio, "Le Cygne" (Saint-Saens) (EB909).

The Six Nite Lights, "Love's Old Sweet Song" (Molloy).

7.0 : News session, market reports and sports results.

7.40: Lecturette by a Representative of the Agricultural Department, "For the Man on the Land."

8.0 : Chimes. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Vive La Danse" (Finck).

8.8 : Bass—Mr. J. H. Lee, (a) "In Summertime on Bredon" (Peel); (b) "Myself When Young" (Lehmann).

8.14: Accordion—Medard Ferrero, "Monte Christo" (Gabutti).

8.22: Popular melodies—The Radio Three, (a) "I Miss a Little Miss" (Coots); (b) "Melody" from "Rhapsody in Blue" (Gershwin); (c) "Blue Hills of Pasadena" (Herbert).

8.30: Instrumental—Salon Orchestra, "Three Songs by Brahms."

8.38: Mezzo-soprano—Mrs. E. Ransom Myers, with orchestral accompaniment, (a) "My Love's Grey Eyes"; (b) "Fairy Legends" (McGeoch).

8.43: Balalaika—Balalaika Orchestra, Gorskaja, (a) "Kasbek"; (b) "Das Bachlein" (Traditional) (Polydor 20586).

8.49: Humour—Mr. Len Ashton, "Please Can You Oblige Me With a Stamp?"

8.54: Novelette—Salon Orchestra, "Dreaming" (Haydn Wood); Serenade, "Hungarian Serenade" (Yoncieres).

9.2 : Evening weather report and station notices.

9.4 : Band—Polydor Wind Orchestra, "Castaldo March" (Novacek).

9.7 : Popular melodies—The Radio Three, (a) "You're Driving Me Crazy" (Donaldson); (b) "Chopinata" (arr. Doucet); (c) "Cheer Up."

9.15: Bass—Mr. J. H. Lee, (a) "Linden Lea" (Williams); (b) "Tell Me Not Sweet" (Keel).

9.21: Male chorus and orchestra—Jager Orchestra, "Lustig Ist Die Jagerei."

9.27: Instrumental—Salon Orchestra, (two favourite Pieces by Tschai-kowsky), (a) "Chanson Triste"; (b) "Humoreske."

9.37: Mezzo-soprano—Mrs. E. Ransom Myers, with orchestral accompaniment, "Dear Heart" (Mattel).

9.43: Novelty—London Novelty Orchestra, (a) "Happy Darkies" Barn Dance (Godfrey); (b) "The Brooklyn Cake Walk" (Thurban).

9.49: Humour—Mr. Len Ashton, (a) "Carbolic Love Song" (Sarony); (b) "Nelly Bly" (Original).

9.53: Instrumental—Salon Orchestra, "Spinning Song" (Hollander); "Latest Dance Novelties."

10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, JULY 7.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, JULY 7.

3.0 : Selected recordings.

5.0 : Children's hour, conducted by Aunt Leonora.

6.0 : Dinner music session (Columbia)—

Band of H.M. Grenadier Guards, "Sir Harry Lauder Medley" (02750).

J. H. Squire's Celeste Octet, "Second Movement from Symphonie Pathétique" (Tschai-kowsky, arr. Robertson) (02937).

Modern Dance Players, "Amoretten Tanze" (Gungl) (Regal G20582).

Court Symphony Orchestra, "The Windmill Man" (Columbia 02909).

Organ—Stanley Macdonald, "The Rosary" (Nevin) (Regal G20391).

Symphony Orchestra, "When the Lemons Bloom" (Strauss) (02529).

Plaza Theatre Orchestra, "The Three Bears" (Coates) (02744).

Symphony Orchestra, "Doctrinen" (Strauss) (02529).

Continental Novelty Orchestra, "Las Lagarternas" (Regal G20552).

New York Symphony Orchestra, "Entrance of the Little Fauns" (02907).

B.B.C. Wireless Military Band, "Le Reve Passe" (DOX44).

J. H. Squire's Celeste Octet, "Scene de Ballet" (De Beriot, arr. Sear).

Organ—Stanley Macdonald, "La Rosita" (Dupont) (Regal G20391).

Continental Novelty Orchestra, "Los Claveles de Sevilla" (Regal).

7.0 : News session.

7.40: Talk—Mr. Lloyd Ross and W.E.A. Students, "Four Conversations on Economic Problems," Series 2.

8.0 : Chimes. Studio Concert by Kalkorai Band (under Mr. Thos. J. Kirk-Burnand) and 4YA artists:

March—Band, "Twentieth Century" (Ord Hume); an interlude, "Sanctuary of the Heart" (Ketelbey).

8.9 : Male quartet—Four Aces, (a) "Opening Chorus" (Pettitt), (b) "A Little Close Harmony" (O'Hara).

8.15: Trios—Messrs. Pettitt, Law, and Hunter, (a) "Mikado" (Sullivan), (b) "Why Am I So Romantic?" (Kalmers).

8.25: Tenor—Ace of Hearts, "From the Land of the Sky-Blue Water."

8.28: Selection—The Band, "Trafalgar" (Ord Hume).

8.40: Duet—Ace of Spades and Ace of Hearts, "Poet and Peasant" (Bonheur).

8.44: Accordeon—Rene Leroux and Musette Orchestra, (a) "The Bagpipe's Song" (Vaissade), (b) "Girl from Paris" (Sylviano) (Polydor).

8.50: Waltz—The Band, "Passing of Salome" (Joyce).

8.56: Male quartet—Four Aces, "Leonore" (Anon.).

9.0 : Evening weather report and station notices.

9.2 : Balalaika Orchestra, Gorskaja, (a) "Stand ein Birkenbaum," (b) "Volga Folk Song" (traditional) (Polydor 20592).

9.8 : Bass—Ace of Clubs, "Simon the Cellarer" (Hatton).

9.11: Trios—Messrs. Pettitt, Law, and Hunter, (a) "Telling It to the Daisies" (Young), (b) "Traumerel and Romance" (Schumann).

9.21: Male quartet—Four Aces, "Don't Wait Too Long" (arr. Pettitt).

9.24: Selection—The Band, "Magic Flute" (Mozart).

9.34: Baritone—Ace of Spades, "Lighterman Tom" (Squire).

9.37: Trios—Messrs. Pettitt, Law, and Hunter, (a) "Il Trovatore" (Verdi), (b) "My Ideal" (Whiting).

9.47: Orchestral—Los Castilians, (a) "Corazon," (b) "Paradojas de Amor."

9.53: Male quartet—Four Aces, (a) "Men" (Odell), (b) "Closing Chorus."

9.57: March—Band, "The Cossack" (Rimmer).

10.1 : God save the King.

Wednesday, July 8

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, JULY 8.

12.30: Relay of Community Singing from the Auckland Town Hall.

2.30: Relay of the Opening Ceremony of the 1931 Auckland Winter Exhibition, followed by selected recordings from the Studio.

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

6.0 : Dinner music session (H.M.V.)—

The London Orchestra, "Valse Memories" (arr. Somers).

Organ—Jesse Crawford, "La Borrachita" (Fernandez Esperon).

Symphony Orchestra, "L'Amour Sorcier" (de Falla) (D1453).

Piccadilly Orchestra, "The Waltz Dream" (Strauss) (B2684).

Marimba Band, "Morales Lopez" (Bolanos) (Zono. EE207).

Royal Opera Orchestra, "Prelude 'The Huntress'" from "Sylvia Ballet" (Delibes) (C1417).

Band of H.M. Coldstream Guards, "The Geisha" (Jones) (C1703).

Marek Weber and His Orchestra, "Menuett No. 1" (Paderewski).

Organ—Jesse Crawford, "I Loved You Then as I Love You Now."

Salon Orchestra, "Aloha Sunset Land" (Kawelo) (B2581).

Symphony Orchestra, "La Vida Breve" (de Falla) (D1453).

Marek Weber's Orchestra, "Coeur Brise" (Gillet) (B3026).

Salon Orchestra, "Chanson Boheme" (Boldi) (B2581).

Marimba Band, "Aguas Dormides" (Bolanos) (Zono. EE207).

Band of H.M. Coldstream Guards, "The Belle of New York" (Kerker).

7.0 : News and market reports.

7.40: Talk—"Book Review."

8.0 : Chimes. Overture—Milan Symphony Orchestra, "Mignon" (Thomas).

8.9 : Soprano—Mrs. H. Timmings, (a) "A Cottage in God's Garden" (Jacobs Bond); (b) "Good-Night" (Fraser-Simson).

8.15: Piano—Mr. Cyril Towsey, "Dance of Doll and Valse Caprice."

8.21: One-act comedy—Mrs. Zoe Bartley-Baxter and Company, "The Waterfall" (an incident of New Zealand Bush Life—out back).

8.36: Novelty—Miller's Banjo Quartet, (a) "Colonel Bogey" March (Alford); (b) "Whip-poor-will" (Devoll).

8.43: Baritone—Mr. D. Edgar Thomas, (a) "Invictus" (Huhn); (b) "For You Alone" (Geehl).

- 8.48: Saxophone—Bert Kingsland, (a) "Serenade D'Amour" (Von Blon); (b) "Daffodils" (Robins).
 8.45: Guitar—Segis Luvaun, (a) "Moonbeam Dreams"; (b) "Lysistrata."
 9.0: Evening weather forecast and announcements.
 9.2: Marimba—Green Bros. Marimba Orchestra, (a) "A Bunch of Roses" (Chapi); (b) "Wedding of the Winds" (Hall) (Zono. EE203).
 9.10: Soprano—Mrs. H. Timmings, (a) "I Love You So"; (b) "Anytime's Kissing Time" (from "Chu Chin Chow") (Norton).
 9.16: Banjo Quartet, (a) "Waves of Danube" (Dowding); (b) "Our Director" (Bigelow).
 9.23: One-act comedy—Zoe Bartley-Baxter and Company, "The Coward" (a comedy with a thrill) (adapted by Zoe Bartley-Baxter).
 9.40: Saxophone—Bert Kingsland, (a) "Saxopeal" (Dunn); (b) "Rhapsodium" (Cosmey).
 9.46: Baritone—Mr. D. Edgar Thomas, (a) "A Sail in a Piping Breeze" (Petrie); (b) "Pinace Anrhydedd" (Welsh Trdtl).
 9.52: Marches—Massed Military Bands, "1001 March" and "Gladiators' Farewell" (Blankenburg).
 10.1: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, JULY 3.

- 10.0: Chimes. Selected gramophone recordings.
 11.12: Lecturette—"Home Sewing."
 11.37: Lecturette—"Hollywood Affairs."
 12.0: Lunch music session.
 2.0: Chimes. Selected items.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by Aunt Daisy.
 6.0: Dinner music session (Columbia)—
 Milan Symphony Orchestra, "Masaniello" Overture (DOX149).
 Dordoba Philharmonic Orchestra, "La Havanera" (Lucena) (DOX77).
 Herman Finck and His Orchestra, "Melodious Memories" (DOX154).
 Sir Henry J. Wood's Symphony Orchestra, "Prelude in C Sharp Minor." (DOX118).
 J. H. Squire's Celeste Octet, "Memories of Chopin" (DOX118).
 London Theatre Orchestra, "Frederica Selection" (Lehar) (DOX145).
 Regal Cinema Orchestra, "Viennese Nights" Waltzes Selection (Romberg) (DOX167).
 Sir Henry J. Wood's Symphony Orchestra, "Volga Boat Song" (arr. Wood) (DOX88).
 Cordoba Philharmonic Orchestra, "Carnival" (Lucena) (DOX77).
 7.0: News session, market reports and sports results.
 8.0: Chimes. Specially recorded International programme—
 Golden Hour of Music.
 Adam and Eve.
 Ohman and Arden (two pianos).

High Spots.

Weather report.

International Talk—Dr. Guy H. Scholefield, O.B.E.

International Dance programme.

God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, JULY 3.

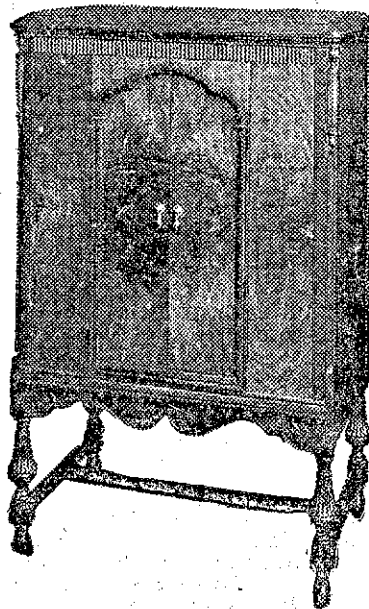
- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour.
 6.0: Dinner music session (H.M.V.)—
 Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of Bacchus" (Delibes) (C1418).
 New Light Symphony Orchestra, "Scene De Ballet Marionettes."
 Royal Opera Orchestra, "The Sleeping Beauty" Panorama (C1469).
 National Symphony Orchestra, "Irish Rhapsody" (Zono. EF34).
 Trio—Fritz and Hugo Kreisler, Michael Rauchs, "Sanctissima."
 National Symphony Orchestra, "Orpheus in Hades" Overture.
 Royal Opera Orchestra, "Shepherd Fennel's Dance" (C1469).
 Zonophone Symphony Orchestra, "Narcissus" (Nevin) (Zono. 5370).
 National Military Band, "Lohengrin" Prelude (Wagner) (Zono. A358).
 New Light Symphony Orchestra, "Persiflage" (Francis) (B2754).
 Trio—Fritz and Hugo Kreisler, Michael Rauchs, "Arlésienne Intermezzo" (Bizet, arr. Kreisler) (DB1166).
 La Scala Orchestra, "The Secret of Susanna" Overture (D1488).
 7.0: News session.
 7.15: Relay from 4YA Dunedin, Messrs. R. B. Tennent and L. W. McCaskill, "Farmer Brown Decides to Grow Lucerne."
 7.30: Addington stock market reports.
 8.0: Chimes. Overture—Grand Symphony Orchestra, "Zampa" (A4020).
 8.8: Bass—Mr. Charles Dewhurst, (a) "Beauty's Eyes" (Tosti), (b) "Laugh, Clown Laugh" (Florito).
 8.14: Piano—Miss Aileen Warren, "A La Bien Aimee" (Schutt).
 8.18: Entertainers—The Two Rascals, (a) "Baby Your Mother" (Burke), (b) "Chin Wag" (Edward and Bert), (c) "Piano Specialty."
 8.30: Tangos—Barnabas Von Geczy and His Orchestra, (a) "L'Heure Bleu" (Spoliansky), (b) "Oh! Donna Clara" (Parlo. A3118).
 8.36: Soprano—Mrs. Lillian Sommers, (a) "Faery Song" (Boughton), (b) "Love's Whisper" (Willeby).
 8.41: Instrumental—Christchurch Broadcasting Trio, "Celebrated Andante and Scherzo" (Reissiger).
 8.53: Chorus—The Sieber Choir—(a) "The Mill in the Black Forest" (Eilenberg), (b) "Faust Waltz" (Gounod) (Parlo. A4264).
 9.1: Evening weather forecast and station notices.
 9.3: Banjo Band—Bloy's Banjo Band, (a) "March B.B." (R. A. Horne), (b) "Hawaiian Melodies" (R. A. Horne, arr. Bloy) (c) "International Medley" (arr. Bloy), (d) "Old Time Songs" (arr. Bloy).
 9.23: Bass-baritone—Mr. Charles Dewhurst, (a) "The Coming of a Dream" (Knight), (b) "Invictus" (Huhn).
 9.29: Piano—Miss Aileen Warren, Two Miniatures (Sibelius), (a) "Romance," (b) "Valse."
 9.32: Soprano—Mrs. Lillian Sommers, (a) "Madrigal" (Chaminade), (b) "Slumber Song" (MacDowell).
 9.37: Instrumental—Christchurch Broadcasting Trio, (a) "Norwegian Dance No. 1" (Greig), (b) "Minuet Antique" (Elkin), (c) "Graesk Festdans" (Hartmann).
 9.46: Entertainers—The Two Rascals, (a) "Can't Make a Fool Out of Me," (b) "More Chin Wag" (arr. Hegan), (c) "Piano and Tap Dancing Specialty."
 9.58: March—Black Diamond's Band, "Guards Parade" (Zono. 5708).
 10.1: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, JULY 3.

- 3.0: Selected recordings.
 3.15: Talk—"More Soup Recipes" by the Home Science Extension Service of Otago University.
 5.0: Children's Hour, conducted by Big Brother Bill.
 6.0: Dinner music session.
 The Philharmonic Orchestra, Berlin, "The Gipsy Baron."
 Heerman Trio, "Pierette" (Chaminade) (Brunswick 4228).
 Brunswick Hour Orchestra, "Only a Rose" (Brunswick 4734).
 Symphony Orchestra, "Eva" Medley (Lehar) (Polydor 27013).
 New Light Symphony Orchestra, "Spanish Dance No. 1."
 Brunswick Concert Orchestra, "The Perfect Song" (Brunswick 4632).
 Symphony Orchestra, "Frederick" Medley (Polydor 27070).
 New Light Symphony Orchestra, "Spanish Serenade" (H.M.V. B2584).
 Brunswick Concert Orchestra, "Sylvia" (Speaks) (Brunswick 4632).
 Heerman Trio, "Dalvisa" (Sandby) (Brunswick 4228).
 Paul Godwin's String Orchestra, "Lehariana" (Polydor 19749).
 7.0: News session.
 7.15: Dialogue—Messrs R. B. Tennent and L. W. McCaskill, "Farmer Brown Decides to Grow Lucerne."
 8.0: Chimes. Relay from His Majesty's Theatre, Dunedin, of Concert presented by Dunedin Orchestral Society. Conductor—Mr. Alfred Walmsley. Soloists—Miss Gaynor Paape, soprano; Mrs. T. B. Poynton, soprano; Mr. John Kennedy, tenor; Mr. William Ruffell, baritone. Orchestral Works include: Overture, "Rosamunde" (Schubert); Selection, "Il Seraglio" (Mozart); Suite, "Othello's Suite" (Coleridge-Taylor); Overture, "Manon" (Massenet); March, "Washington Grays" (Grafula).
 10.0: Dance session (Brunswick)—
 Foxtrots—Abe Lyman and His California Orchestra, "Another Night," Meyer Davis' Hotel Astor Orchestra, "If I Had My Way" (4603).
 Abe Lyman and His California Orchestra, "I'm Only Making Believe" (Davis) (4555).

SHORT WAVE

for World-wide
Reception!



GULBRANSEN Triple Combination BROADCAST— SHORT-WAVE— GRAMOPHONE.

Everything you want in Radio and Gramophone Entertainment offered in one superb instrument of surpassing performance. Price **£85**

N.Z. Distributors:

H. W. CLARKE, LTD.,
182 WAKEFIELD STREET,
WELLINGTON.

- Chic Scoggin and His Pla-mor Orchestra, "If I Could Write a Song" (Fulcher) (4654).
 Waltz—Meyer Davis' Hotel Astor Orchestra, "There Must Be Somebody Waiting For Me" (Donaldson) (4603).
 10.15: Foxtrots—Jesse Crawford and His Orchestra, "The Prep Step." Irving Mills and His Hotsy Totsy Gang, "Manhattan Rag." Jesse Stafford and His Orchestra, "My Sweeter Than Sweet." Vocal—Chester Gaylord, "Dance Away The Night" (4582).
 Foxtrots—Irving Mills and His Hotsy Totsy Gang, "What Kind of a Man is You" (Carmichael) (4641).
 Tom Gerun and His Orchestra, "One Sweet Kiss" (4521).
 Jack Denny and His Mount Royal Hotel Orchestra, "The End of the Lonesome Road" (Ruby) (4552).
 Waltzes—Abe Lyman and His California Orchestra, "If I'm Dreaming" (Dubin Burke) (4657), "The Shepherd's Serenade" (4633).
 10.42: Vocal—Chester Gaylord, "Just You, Just Me" (Klages) (4582).
 Foxtrots—Tom Gerun and His Orchestra, "Some Day Soon" (4521).
 Jack Denny and His Mount Royal Hotel Orchestra, "Scotch" (White) (4552).
 Abe Lyman and His California Orchestra, "Sally" (Dubin Burke) (4657), "If He Cared" (Grey) (4633).
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, JULY 3.

6.30 to 7.30 p.m.: Children's session.

7.30 to 8 p.m.: Sports talks.

Thursday, July 9

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, JULY 9.

- 8.0 : Chimes. Selected recordings.
 8.15: Talk—"Profit and Pleasure," prepared by the Home Science Extension Service of Otago University.
 9.0 : Children's session, conducted by Skipper.
 6.0 : Dinner music session (Parlophone)—
 Dajos Bela Orchestra, "Faust" Waltz (Gounod) (A4010).
 Major Bowes Capitol Theatre Trio, "My Isle of Golden Dreams."
 Barnabas von Geczy and His Orchestra, "Softly, as in a Morning Sunrise" (Romberg) (A2892).
 Berlin State Opera House Orchestra, "The Mastersingers" Overture.
 Barnabas von Geczy and His Orchestra, "Pardon, My Lady" Tango.
 Dajos Bela Orchestra, "Vienna Bon Bons" Waltz (Strauss) (A4056).
 Grand Symphony Orchestra, "Polonaise No. 1 in A" (Chopin) (A4089).
 Barnabas von Geczy and His Orchestra, "One Kiss" Waltz (Romberg).
 Pavillon Lescant Tango Orchestra, "In a Little Cafe" Tango (A2898).
 Major Bowes Capitol Theatre Trio, "Pale Moon" (Logan) (A2593).
 Dajos Bela Orchestra, "The Swallows" Waltz (Strauss) (A4010).
 Grand Symphony Orchestra, "Hungarian Dances," Nos. 5 and 6.
 Frank Westfield's Orchestra, "The New Sullivan" Selection (A2679).
 Dajos Bela Orchestra, "Roses of the South" Waltz (Strauss) (A4056).
 7.0 : News and market reports.
 7.40: Talk—"Foundation Garments—Corsets." Under the auspices of the New Zealand Manufacturers' Association.
 8.0 : Chimes. Studio concert by the Auckland Society of Musicians.
 Trio—Misses Helen Gray, Jean Clarkson and Dorothea Mulgan, (a) "Ballet Music—Rosamund" (Schubert); (b) "Serenade."
 8.9 : Soprano—Miss Patricia McLeod, (a) "Oh, Had I Jubal's Lyre" (Handel); (b) "Rose Softly Blooming" ("Azor and Zemira") (Spohr).
 8.16: Piano—Mr. Owen Jensen, two etudes, (a) "E Major, Op. 10, No. 3," (b) "E Minor, Op. 25, No. 5" (Chopin); "Rhapsodie in B Flat, Op. 119" (Brahms).
 8.27: Baritone—Mr. A. B. Thompson, Songs from Tennyson's Poem, "Maud," set to music by Arthur Somervell: (a) "I Hate the Dreadful Hollow," (b) "She Came to the Village Church," (c) "Birds in the High Hall Garden," (d) "Go Not, Happy Day," (e) "Come Into the Garden, Maud."
 8.36: Violin—Miss Helen Gray, (a) "Romance" (Wieniawski); (b) "Spanish Dance" (De Falla-Kreisler).
 8.44: Soprano—Miss Patricia McLeod, (a) "Two Gypsy Melodies" (Dvorak); "Slumber Song" (Reger).
 8.51: Concerto arranged for two pianos—Miss Eva W. Hood and Mrs. Ludbrook, "First Movement—Allegro Molto Moderato" (Grieg).
 9.1 : Evening weather forecast and announcements.
 9.3 : Cello—Miss Jean Clarkson, (a) "Andantino" (Martini-Kreisler); (b) "Allegro Con Brio" (Guerini).
 9.11 : Baritone—Mr. A. B. Thompson, further songs from Tennyson's poem "Maud," (a) "Dead, Long Dead," (b) "Oh, that it were Possible," (c) "My Life has Crept so Long."
 9.19: Piano duo—Miss Eva W. Hood and Mrs. Ludbrook, "Wedding Cake Caprice Valse," Op. 76 (Saint-Saens).
 9.24: Trio—Misses Helen Gray, Jean Clarkson and Dorothea Mulgan, "Allegro Vivace from Trio Op. 70, No. 1" (Beethoven).
 9.31: Programme of dance music (Brunswick)—
 Foxtrots—Jesse Stafford and His Orchestra, "Ragamuffin' Romeo" (De Costa) (4824); "I'm Sailing on a Sunbeam" (Dreyer) (4630); "A Bench in the Park" (Yellen) (4824).

- 9.39: Waltzes—The Thematics Orchestra, "Giovanna" (Kountz) (4297).
 Regent Club Orchestra, "The Moonlight Reminds Me of You"
 9.45: Vocal—Marion Harris, "Wasn't it Nice?" (Young) (4806).
 9.48: Foxtrots—Colonial Club Orchestra, "It's You I Love" (Davis) (4621).
 Jack Denny and His Mount Royal Hotel Orchestra, "Whip-poor-will" (De Voll) (4794).
 Waltz—Castlewood Marimba Band, "A Night of Love in Hawaii."
 9.57: Foxtrots—Meyer Davis's Hotel Astor Orchestra, "Blue is the Night." Colonial Club Orchestra, "Why?" (Davis) (4621).
 Jesse Stafford and His Orchestra, "I'm Following You."
 Waltzes—Regent Club Orchestra, "Dancing with the Tears in My Eyes." Castlewood Marimba Band, "My Heart Belongs to the Girl who Belongs to Somebody Else" (Sherman) (4821).
 10.12: Foxtrots—Hal Kemp and His Orchestra, "Give Yourself a Pat on the Back" (Butler) (4807).
 Tom Gerun and His Orchestra, "Absence Makes the Heart Grow Fonder" (Lewis) (4829).
 Bob Haring and His Orchestra, "I Still Remember" (Tobias).
 Tom Clines and His Music, "Wasn't it Nice?" (Young) (4813).
 Colonial Club Orchestra, "Stein Song" (Colcord) (4748).
 Waltz—Castlewood Marimba Band, "Down the River of Golden Dreams"
 10.30: Foxtrots—Meyer Davis's Hotel Astor Orchestra, "Nobody Cares if I'm Blue" (Clarke-Akst) (4802).
 Hal Kemp and His Orchestra, "If I Had a Girl Like You." Meyer Davis's Hotel Astor Orchestra, "Ro-ro-rolin' Along."
 10.39: Vocal duet—Al and Pete, "That's Why I'm Jealous of You" (Rose).
 10.42: Foxtrots—Tom Clines and His Music, "You Darlin'" (Woods) (4814).
 Jack Denny and His Mount Royal Hotel Orchestra, "Dream Avenue" (Tobias) (4788).
 Tom Clines and His Music, "You for Me" (Jason) (4814); "Be Careful With Those Eyes" (Woods) (4813).
 10.54: Waltzes—Castlewood Marimba Band, "My Reveries" (White) (4820).
 Regent Club Orchestra, "Because There's a Change in You."
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, JULY 9.

- 10.0 : Chimes. Selected gramophone recordings.
 10.45: Lecturette—"Cooking."
 11.37: Lecturette—"Storage of Food in the Home," under the auspices of the Health Department.
 12.0 : Lunch session music.
 2.0 : Chimes. Selected items.
 3.15: Lecturette—Miss I. F. Meadows, "Profit and Pleasure." Talk arranged by the Home Science Extension Department of the Otago University.
 3.30 and 4.30: Sporting results to hand.
 5.0 : Children's session, conducted by Uncle George and Big Brother Jack.
 6.0 : Dinner music session—(Polydor)—
 Berlin Philharmonic Orchestra, "Torch Dance, B Flat Major" (27033).
 Ilja Livschakoff and His Orchestra, "Aubade" (Livschakoff) (23048).
 Paul Godwin's Orchestra, "Evening Chimes" (Marzian) (23168).
 Vienna Schrammel Quartet, "Some Day" (from "Marietta") (Strauss).
 Efim Schachmeister's Dance Orchestra, "Casonova, I Love You" Tango.
 Ilja Livschakoff and His Orchestra, "Little Serenata" (Alfred Grünfeld) (23048); "Who has Filled Our Heart with Love?" (Lehar).
 Paul Godwin's Orchestra, "The Mask Seller" (Albert Wolff) (22893).
 Vienna Schrammel Quartet, "Spin, Spin" (Lochmann) (21915).
 Symphony Orchestra, "Il Guarany—Introduction" (Gomes) (P60006).
 Paul Godwin's Orchestra, "Song of the Desert" (Delhaes) (22893); "Tonerna" (Sjoberg) (23168).
 Efim Schachmeister's Dance Orchestra, "At the Fireside" (21181).
 Paul Godwin's Jazz Symphonians, "Butterfly, Sweet Little Lady."
 Ilja Livschakoff and His Orchestra, "All My Heart Belongs to You."
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Miss Inez Connop, "Dancing in Relation to Health."
 8.0 : Chimes. Studio concert by the Wellington Artillery Band (Conductor, Capt. T. Herd) and 2YA artists.
 March—Band, "The Jolly Coppersmith" (Peter); overture, "Lustspiel"
 8.10: Bass—Mr. R. J. G. Madigan, (a) "Ochone, Bridget O'Flynn"; (b) "Katie McGee" (Coventry).
 8.15: Vibraphone—Miss Joyce Morgan, (a) "My Old Kentucky Home"; (b) "Old Black Joe" (Foster).
 8.19: Cornet duet—Sergts. Bowman and Johnston, "Two Comrades."
 8.24: Contralto—Miss Mabel Dyer, (a) "The Sweetest Flower that Blows" (Hawley); (b) "That's All" (Brahe).
 8.29: One-act mystery play—"The Real Q" (Terrell and Stechhan). Characters: The Doctor, Mr. Kenneth Aitken; The Detective, Mr. Hedley Aitken; The Thief, Mr. Norman Aitken. Scene: Dr. Cornish's Office, New York.
 8.48: Selection—Band, "Gems from Sullivan's Operas" (arr. Hume).
 9.0 : Evening weather forecast and station notices.
 9.2 : Accordion—Jean Vaissade, (a) "Couscous" (Latoire); (b) "The Secret of a Night" (Vaissade) (Polydor 23616).
 9.8 : Vocal duet—Miss Mabel Dyer and Mr. Edgar Swain, "At Dawning." Contralto—Miss Mabel Dyer, "Through the Sunrise" (Nutting).
 9.14: Vibraphone—Miss Joyce Morgan, (a) "Carry Me Back" (Bland); (b) "Old Folks at Home" (Foster).
 9.18: Bass—Mr. R. J. G. Madigan, "The Bosun's Advice" (Coventry).
 9.22: Waltz—The Band, "Red Poppies" (Rimmer).
 Cornet solo—Sergt. W. H. Bowman, "Beyond the Dawn" (Sanderson).
 9.31: Tenor—Mr. Edgar Swain, (a) "Dolorosa" (Phillips); (b) "The Fuchsia Tree" (Quilter).

- 9.37: March—The Band, "Naworth Castle" (Ord Hume); fantasia, "Hibernian Melodies" (arr. Greenwood).
 9.50: Male choir—Don Cassocks, (a) "The Red Sarafan" (Warlamoff-Jaroff); (b) "March Prince Cleg" (arr. Jaroff) (Col. DOX153).
 9.56: Dance—The Band, "Frisky Sambo" (Ord Hume).
 10.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, JULY 9.

- 3.0: Gramophone recital.
 3.15: Lecturette—"Profit and Pleasure," prepared by the Home Science Extension Service, Otago University.
 5.0: Children's hour.
 6.0: Dinner music session (Parlophone)—
 Edith Lorand's Orchestra, "Tales of Hoffman" Fantasia (Offenbach).
 Dajos Bela String Orchestra, "Goldregen" (Waldteufel) (A4238).
 Otto Dobrindt and His Symphony Orchestra, "Speak Not of Love Eternal" (Granichstaedten) (A4275).
 Dajos Bela Orchestra, "I Pagliacci" Selection (Leoncavallo) (A4090).
 Sandor Joszi Orchestra, "Polo" (Fetras) (A2851).
 Berlin State Opera House Orchestra, "Rustle of Spring" (Sinding).
 Dajos Bela Orchestra, "Delirien" Waltz (Strauss) (A4182).
 Edith Lorand's Orchestra, "Prelude" (Rachmaninoff) (A4040).
 Dajos Bela Orchestra, "Count of Luxembourg" Waltz (Lehar) (A4182).
 Sandor Joszi Orchestra, "Marionette's Wedding March" (Rathie).
 Berlin State Opera House Orchestra, "Praeludium" (Jarnefeldt).
 Dajos Bela String Orchestra, "Gold and Silver" (Lehar) (A4238).
 Edith Lorand's Orchestra, "Liebesfeier" (Weingartner) (A4040).
 Mitja Nikisch and His Symphony Orchestra, "Madelon"—Dream Waltz (Nikisch) (A4275).
 7.0: News session.
 7.30: Talk—Dr. I. W. Weston, Lincoln Agricultural College, "Farm Accounting Associations."
 8.0: Chimes. Overture—Berlin State Opera Orchestra, "Barber of Seville."
 8.4: Quartets—Melodious Quartet, Negro Spirituals, (a) "Nobody Knows de Trouble," (b) "Deep River" (traditional).
 Soprano—Miss Frances Hamerton, with orchestral accompaniment, "Waltz Song" (from "Tom Jones") (German).
 8.11: Studio Octet, "Fidelio" Overture (Beethoven).
 8.17: Bass-baritone—Mr. T. D. Williams, "My Abode" (Schumann).
 8.20: Flute with orchestra—Mr. A. E. Hutton, "Aria" (John Lemmone).
 8.25: Mezzo-contralto—Miss Millicent Jennings, (a) "Caravan" (Shaw), (b) "Away Home" (Liddle).
 8.29: Quartet—Melodious Quartet with orchestral accompaniment, "To the Maypole" (Old English) (traditional).
 8.32: Selections—Studio Octet, (a) "Spanish Serenade" (Bizet), (b) "Largo Apassionata" (Laurian Beck).
 8.39: Bass—Mr. T. D. Williams, "I Fear No Foe" (Pinsuti).
 8.42: Soprano and tenor—Dolce Duo, "Swing Song" (Messenger).
 8.47: Violin with orchestra—Soloist, Miss Irene Morris, "Concerto in A Minor" (Accolay).
 8.57: Tenor—Mr. Russell Sumner with orchestral accompaniment, (a) "Serenade" (Schubert), (b) "Pleading" (Elgar).
 9.1: Weather forecast and station notices.
 9.3: Flute—Mr. A. E. Hutton, "Loin du Bal" (Fillet).
 9.6: Soprano—Miss Frances Hamerton, with orchestral accompaniment, "My Harp is on the Willow Tree" (from "Hush Songs"—Needham).
 Melodious Quartet—"Sweet and Low" (Barnby).
 Mezzo-contralto—Miss Millicent Jennings with orchestral accompaniment, "The Peace of the Valley" (Balfe).
 9.17: Selection—Studio Octet, "Cavalleria Rusticana" (Mascagni).
 9.30: Dance music programme (Brunswick)—
 Foxtrots—Tom Gerun and His Orchestra, "What Good Am I Without You?" (Ager) (4999).
 Ben Bernie and His Orchestra, "He's Not Worth Your Tears" (Dixon) (4976).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "It Must Be True" (Arnheim) (4984).
 Ben Bernie and His Orchestra, "The Wind in the Willows."
 9.42: Waltz—Regent Club Orchestra, "It Is Destiny" (Grey) (6000).
 Foxtrots—Hal Kemp and His Orchestra, "Them There Eyes" (4992).
 Harry Reser and The Six Jumping Jacks, "The Wedding in the Ark" (Wallace) (6007).
 9.51: Vocal—North and South, "Barrack Bert the Soldier" (Clifford).
 9.54: Foxtrots—Ben Bernie and His Orchestra, "Can't You See I'm Lonely?"
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "The Little Things in Life" (Berlin) (4984).
 Hal Kemp and His Orchestra, "Hurt" (Plantadosi) (4992).
 10.3: Tangos—Juan Llossas Orchestra, "Tavern Tango" (Mario Sarrocchi) (Polydor 22425); "On Far Away Highroads" (Poly).
 10.9: Vocal—Chester Gaylord, "You're Lucky to Me" (Razaf) (6010).
 10.12: Foxtrots—Tom Gerun and His Orchestra, "Nine Little Miles from Ten-Tennessee" (Sherman) (4999).
 Isham Jones' Orchestra, "Lonesome Lover" (Bryan) (6015).
 Emil Coleman and His Orchestra, "Overnight" (Rose).
 10.21: Waltzes—Bob Haring and His Orchestra, "Chimes of Spring" (6031).
 Joe Green and His Orchestra, "My Missouri Home" (6000).
 10.27: Foxtrots—Ben Bernie and His Orchestra, "Just a Gigolo" (Casucci) (6023); "Everything But Love" (Kahn) (6025); "The River and Me" (Dubin) (6023).
 10.36: Vocal—North and South "Sittin' on a Five-Barred Gate" (Parlo.).

- 10.39: Foxtrots—Emil Coleman and His Orchestra, "I Love Love" (4977).
 Abe Lyman and His Californian Orchestra, "Us and Company" (Nelson) (4993).
 Tangos—Juan Llossas' Orchestra, "Majanah" (Llossas) (Polydor 22425); "Carnations" (Demare) (Polydor 22983).
 10.51: Foxtrots—Tom Gerun and His Orchestra, "Come a Little Closer."
 Abe Lyman and His Californian Orchestra, "As Long As We're Together" (Bard) (4993).
 Tom Gerun and His Orchestra, "You're the One I care For."
 11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, JULY 9.

SILENT DAY.

Friday, July 10

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, JULY 10.

- 3.0: Chimes. Selected recordings.
 3.15: Literary selection.
 5.0: Children's session, conducted by Nod and Aunt Jean.
 6.0: Dinner music session (Polydor)—
 Philharmonic Orchestra, Berlin, "Les Huguenots" Overture (19898).
 Paul Godwin's Quartet, "Beautiful Garden of Roses" (Schmidt).
 State Opera Orchestra, Berlin, "German Dances" (Schubert) (66458).
 Polydor Symphonic Orchestra, "Hear You Again" Medley (19874).
 Association des Concerts Lamoureux, Paris, "Petite Suite" (Debussy) (66958/9): (1) En Bateau, (2) Cortege, (3) Menuet, (4) Ballet.
 Paul Godwin's Quartet, "Le Reve" (D'Ambrosio) (19532).
 Philharmonic Orchestra, Berlin, "Emperor Waltz" (Joh. Strauss).
 7.0: News and market reports.
 7.40: Sports talk.
 8.0: Chimes. Overture—Edith Lorand's Orchestra, "Johann Strauss" Fantasia (Strauss) (Parlo. A4044).
 8.9: Contralto—Miss Rita Thomas, (a) "Always as I Close My Eyes" (Coates); (b) "Life is a Caravan" (Del Riego).
 8.16: March—Orchestral Octet, under direction of Harold Baxter, "Victoria" (Von Blon); selection, "Cossacks' Wedding" (Krein); "Sylvan Tyrol" (Godowsky).
 8.27: Humour—Miss Edna Thomas, "A Bedtime Story" (Wynne).
 8.34: Balalaika—Mr. Simon Philippoff, (a) "Czardas" (Philippoff); (b) "Liebesfreud" (Kreisler); (c) "Thoughts Fantasia" (Philippoff).
 8.46: Male quartet—The Abels, (a) "Kannst Du Mir Verzeihn" (Kascher); (b) "Das Lied Von Der Wunder Bar" (Kascher) (Poly. 23332).
 8.52: Suite—Orchestral Octet, "Cobweb Castle" (Lehmann).
 9.2: Evening weather forecast and announcements.
 9.4: Organ—Leo Stin, (a) "Berceuse de Jocelyn" (Godard); (b) "Little Quinquin" (Dessousseaux) (Polydor 23167).
 9.10: Tenor—Mr. J. Ainsley Daglish, (a) "An Evening Song" (Blumenthal); (b) "Tommy, Lad" (Margetson); (c) "If I Can Live."
 9.21: Selection—Orchestral Octet, "The Arcadians" (Monckton).
 9.31: Humour—Miss Edna Thomas, "Reducing" (Herbert).
 9.35: Intermezzo—The Orchestral Octet, "Cupid" (Voelker).
 9.39: Contralto—Miss Rita Thomas, "Tis the Hour of Farewell."
 9.45: Novelty—Grinning Schrammel Trio, (a) "At the Worther Lake" (Koschat); (b) "Swiss Children" (Chlumsky) (Polydor 23475).
 9.50: Ballet music—Orchestral Octet, "Carmen" (Bizet): (a) "Ensemble," (b) "Danse Bohemienne," (c) "Chanson Boheme."
 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, JULY 10.

- 10.0: Chimes. Selected gramophone recordings.
 11.12: Lecturette—"Fashions."
 12.0: Lunch hour music.
 2.0: Chimes. Selected items.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by Uncle Jim.
 6.0: Dinner music session.
 Great Symphony Orchestra, "Vienna Operetta Revue" (Robrecht).
 Jacques Jacobs' Ensemble, "Wiener Blut" (Strauss) (Col. 02556).
 Band of H.M. Grenadier Guards, "La Benediction des Poignards."
 Jacques Jacobs' Ensemble, "Espasa Waltz" (Waldteufel) (Col. 02560).
 Plaza Theatre Orchestra, "My Lady Dainty" (Hesse) (Col. 01438).
 Jacques Jacobs' Ensemble, "Sobre Las Olas" (Rosas) (02556).
 Symphony Orchestra, "Countess Mariza" Medley (Kalmann).
 J. H. Squire's Celeste Octet, "Valse Bleu" (Margis) (Col. 3643).
 B.B.C. Wireless Symphony Orchestra, "Il Trovatore" Selection.
 J. H. Squire's Celeste Octet, "Amoureux Valse" (Berger) (3643).
 Band of H.M. Grenadier Guards, "Lo! Here the Gentle Lark."
 Plaza Theatre Orchestra, "The Busy Bee" (Bendix) (Col. 01438).
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. J. W. Fergie, "The Romance of the Main Trunk Railway."
 8.0: Chimes. Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "The Bohemian Girl" (Balfe).
 8.8: Novelty duo—Dorrie and Laurie, (a) "Strolling Home Alone" (Mayer); (b) "My Idea of Heaven" (Tobias).

- 8.16: Mezzo-soprano—Miss Ann Gilpin, with orchestral accompaniment, (a) "Remembrance" (Keel); (b) "The Valley and the Hill" (Quilter).
 8.22: Guitar Duo—Berthold and Bent, (a) "Rolling Down the River" (Waller); (b) "Sleepy Eyes" (Kamiki).
 8.30: Selection—2YA Orchestra, "Rainbow" (Gershwin).
 8.40: Mezzo-soprano—Miss Ann Gilpin, with orchestral accompaniment, (a) "The Forge" (Brahms); (b) "Silent O'Moyle" (Trad'l arr. Moore).
 8.46: Novelty duo—Dorrie and Laurie, (a) "Like We Used to Be" (Whiting); (b) "The Lovely Aspidistra in the Old Art Pot" (Weston).
 8.54: Suite—2YA Orchestra, "Eastern Pictures" (Pratt).
 9.1: Evening weather report and station notices.
 9.3: Guitar duo—Berthold and Bent, (a) "Confessin'" (Dougherty); (b) "Sometimes" (Florito).
 9.11: Baritone—Mr. A. W. Beckford, (a) "Call of the Wild" (McGeoch); (b) "Youth" (Allitsen); (c) "The Sum of Life" (Stewart).
 9.21: Spanish march—2YA Orchestra, "Bunch of Roses" (Chapi); March Song, "Mirella" (Bernioux).
 9.30: Dance programme (Brunswick)—
 Foxtrots—Anglo-Persians, "Dancing Butterfly" (Pascal) (4792).
 Abe Lyman and His California Orchestra, "Worryin' Over You" (Tobias) (4774).
 Al Goodman and His Flying High Orchestra, "Thank Your Father" (de Sylva) (4726).
 Waltz—Regent Club Orchestra, "I Love You So" (Kahn) (4744).
 9.42: Foxtrots—Tom Clines and His Music, "Until Love Comes Along".
 Lloyd Huntley and His Isle o' Blues Orchestra, "Promises".
 Ben Bernie and His Orchestra, "Telling It to the Daisies".
 Lloyd Huntley and His Isle o' Blues Orchestra, "On a Blue and Moonless Night" (O'Flynn) (4784).
 9.54: Vocal trio—Earl Burtlett's Biltmore Trio, "If I'm Dreaming" (Dubin).
 Foxtrots—Ben Bernie and His Orchestra, "Keepin' Myself for You." Colonial Club Orchestra, "Caribbean Love Song" (Berton).
 Ben Bernie and His Orchestra, "You Brought a New Kind of Love to Me" (Fain) (4767).
 Tom Clines and His Music, "Any Time's the Time to Fall in Love" (Janis) (4772).
 10.9: Waltz—Ben Bernie and His Hotel Roosevelt Orchestra, "Coquette".
 Foxtrots—Dan Russo and His Oriole Orchestra, "Sweetheart" (Lewis).
 Roger Wolfe Kahn and His Orchestra, "Exactly Like You." Ben Bernie and His Orchestra, "Reminiscing" (Leslie).
 10.21: Vocal—Vaughn de Leath, "Sometimes I'm Happy" (Caesar) (4770).
 Foxtrots—Abe Lyman and His California Orchestra, "You Will Come Back to Me" (Fields) (4774).
 Ben Bernie and His Orchestra, "Livin' in the Sunlight, Lovin' in the Moonlight" (Sherman) (4767).
 Colonial Club Orchestra, "Watching My Dreams Go By".
 10.33: Waltz—Regent Club Orchestra, "Lazy Lou'siana Moon" (Donaldson).
 Foxtrots—Colonial Club Orchestra, "Wherever You Are" (Kalmar) (4777); "Sweepin' the Clouds Away" (Coslow) (4738).
 10.42: Vocal trio—Earl Burtlett's Biltmore Trio, "A Year From To-day".
 Foxtrots—Roger Wolfe Kahn and His Orchestra, "On the Sunny Side of the Street" (Fields) (4742).
 The Jungle Band, "Sweet Mama" (Ellington) (4760).
 Waltz—Regent Club Orchestra, "My Dear" (Kahn) (4370).
 Foxtrots—Anglo-Persians, "The Toy-Town Admiral" (Godfrey).
 Colonial Club Orchestra, "All Alone Monday" (Kalmar).
 11.0: God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—FRIDAY, JULY 10.

- 8.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's Hour.
 6.0: Dinner music session (Columbia)—
 J. H. Squire's Celeste Octet, "Operatica" (arr. Squire) (DOX62).
 Band—The Bombardiers, "Hungarian Dance No. 5" (Regal G20751).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Adagietto." Regal Orchestra, "Pagliacci" Selection (Regal G30007).
 J. H. Squire's Celeste Octet, "Song of the Waterfall" (DO149).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Entr'acte, Le Carillon" (Bizet) (01327).
 London Theatre Orchestra, "A Country Girl" Selection (DOX35).
 Band—The Bombardiers, "Hungarian Dance No. 6" (Regal G20751).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite" (Intermezzo).
 Regal Cinema Orchestra, "Show of Shows" Selection (05086).
 J. H. Squire's Celeste Octet, "Scent of the Jasmine" (Squire), (b) "Two Eyes of Grey" (McGeoch) (01213).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite" Entr'acte, "La Cuisine De Castelet" (Bizet) (01326).
 7.0: News session.
 7.30: Talk—Mr. A. M. Hollander, under the auspices of the Canterbury Manufacturers' Association, "The Development of N.Z. Industries."
 8.0: Chimes. Overture—Mitja Nikisch and His Jazz Symphony Orchestra. "Strauss Parody" (MacEben) (Parlo. A4114).
 8.3: Quartet—The Dulcet Quartet, "Alas That Spring Should Vanish." Baritone—Mr. A. G. Thompson, "Listen n'" (Wood).
 8.14: March—Studio Octet (Conductor Harold Beck) "With Sword and Lance" (Starke). (b) "Stradella" Overture (Flotow).
 8.24: Soprano—Mrs. W. B. Harris, with orchestral accompaniment, (a) "From The Land of The Sky Blue Water" (Cadman), (b) "Cradle Song" (Schubert).
 8.28: Lute—Professor R. Calace, (a) "Canto Nostalgico," (b) "Serenata Malinconica" (Calace) (Polydor 20526).

- 8.34: Tenor—Mr. Jas. Shaw, (a) "Mother O' Mine" (Tours), (b) "Tag, Trumpeter" (Dix).
 8.40: Piano novelties—Miss Maisie Ottey, (a) "Dance of the Bells," (b) "The Music Box" (Rebikoff).
 8.44: Contralto—Miss Nellie Lowe with orchestral accompaniment, "My Ain Folk" (Lemon).
 8.48: Foxtrots—Studio Octet, (a) "With My Guitar And You" (Harris and Heymans), (b) "My Desert Rose" (Terese).
 8.56: Male Choir—Meinekescher Male Choir, (a) "Zu Straussburg Bruck," (b) "Weihe Des Gesanges" (Mozart) (Polydor 21190).
 9.0: Evening weather forecast and station notices.
 9.4: Organ—Richard Jordan, "Just a Gigolo" (Panachord P12107).
 9.8: Quartet—The Dulcet Quartet, "The Message" (Caldicott).
 9.12: Baritone—Mr. A. G. Thompson, with orchestral accompaniment, "Harlequin" (Sanderson).
 9.15: Selection—Studio Octet, "Stop Flirting" (Gershwin, Daly and Lannin).
 9.24: Soprano—Mrs. W. B. Harris, "Lack-a-Day" (Crampton).
 9.28: Piano Novelties—Miss Maisie Ottey, (a) "Behave Yourself" (Roy Bargy), (b) "Arabesque in Blue" (Savino).
 9.34: Contralto—Miss Nellie Lowe, (a) "The Castilian Maid" (Lehmann), (b) "When You Come Back" (Tate).
 Contralto and Tenor—Salon Duo—"Carmena" (Wilson).
 9.42: Organ—Richard Jordan, "Falling in Love Again" (Panachord P12107).
 9.45: Baritone—Mr. A. G. Thompson, "Sweet Sweet Lady" (Spross).
 Quartet—Dulcet Quartet, "In This Hour of Softened Splendour."
 9.51: March—Black Diamond Band, "Boys of the Old Brigade" (Zono. 5708).
 9.54: Tenor—Mr. Jas. Shaw, with orchestral accompaniment, "Kashmiri Song" (Indian Love Lyrics) (Woodforde-Finden).
 9.57: Selection—Studio Octet, "I Don't Need a Television" (Shalson).
 10.1: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, JULY 10.

- 3.0: Selected recordings
 5.0: Children's Hour, conducted by Aunt Sheila.
 6.0: Dinner music session (H.M.V.)—
 New Mayfair Orchestra, "Lilac Time" (C1457).
 San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski), (b) "Aubade" (Auber) (ED6).
 Creator's Band, "Semiramide" Overture (Rossini) (C1420).
 New Light Symphony Orchestra, "Spanish Serenade" (Bizet) (B2584).
 "Narcissus" (Nevin) (Zono. EE111).
 Trio—De Groot-Pacey-Gibilaro, "O Sole Mio" (Di Capua) (B2588).
 San Francisco Symphony Orchestra, "Liebesleid" (Kreisler) (ED6), "Valse De Concert" (Glazounov) (D1492).
 New Light Symphony Orchestra, "Spring Song" (Zono. EE111).
 National Symphony Orchestra, "William Tell" Overture.
 New Light Symphony Orchestra, "Spanish Dance No. 1" (B2584).
 7.0: News session.
 7.30: Talk—Rev. E. S. Tuckwell, B.A.: "The Challenge of the World Disarmament Conference."
 7.40: Talk—Officer-in-Charge of the Health Department, "Prevention of Diseases Spread by Secretions from Nose and Throat."
 8.0: Chimes. Studio Concert by Dag's Band, and 4YA Artists, "Songs of Other Days."
 Overture—Herman Finck and His Orchestra, "Potpourri of Popular Melodies" (arr. Finck) (Col. DOX45).
 8.9: Baritone and Chorus—Mr. S. Kershaw, (a) "Ta-Ra-Ra-Boom-Di-Bo" (Sayers), (b) "Good Old Jeff" (trdrl.).
 8.16: Waltz—Dag's Band, "Old Times" (arr. Dag).
 8.26: Humour—Mr. Bert Rawlinson, (a) "The Cat Came Back" (Miller), (b) "McGinty's Return" (Flynn).
 8.32: Quadrilles—Dag's Band, "Melodies of the Past" (arr. Dag).
 8.45: Soprano—Miss E. Shephard, "My Mother's Old Red Shawl." Chorus—"Two Little Girls in Blue" (Graham).
 8.55: Common Schottische—Dag's Band, "Melodies of By-Gone Days."
 9.0: Weather report and station notices.
 9.2: Humour—Stanley Holloway, "Old Sam" (Holloway) (Col. DOX147).
 9.10: Tenor and Chorus—Mr. George Crawford, (a) "Sweet Genevieve" (Tucker), (b) "Bank of Monte Carlo" (Gilbert).
 9.16: D'Alberts—Dag's Band, "Songs of the Past" (arr. Dag).
 9.28: Humour—Mr. Bert Rawlinson, "McGee's Back Yard" (Zimmerman).
 9.31: Chorus—The Quartet, "Little Brown Jug."
 9.34: Accordion—Medard Ferrero, (a) "Torrent" (Capitani), (b) "A Rare Bird" (Damarie) (Polydor 23301).
 9.40: Soprano and Chorus—Miss E. Shephard, (a) "The Miner's Dream of Home" (Dryden), (b) "Riding on a Load of Hay" (Birch).
 9.46: Barn Dance—Dag's Band, "Reminiscences of Early Days."
 9.52: Baritone—Mr. S. Kershaw, "The Little Old Log Cabin in the Lane." Chorus—The Quartet, "There's a Tavern in the Town" (arr. Hall).
 9.58: Waltz—Dag's Band, "Old Melodies" (arr. Dag).
 10.3: God save the King.

Saturday, July 11

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, JULY 11.

- 3.0: Chimes. Relay of description of Rugby Football Match from Eden Park
 5.0: Children's session, conducted by Cinderella.
 6.0: Dinner music session (Parlophone)—
 Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde); (b) "Mignonette" (Nicholls) (E10571); "Eldgaffin" (Lamien) (A4009); "The Grenadiers" (Waldteufel) (A4081).

Frank Westfield's Orchestra, "Classica" (arr. Thlsley) (A2195).
 Dajos Bela Orchestra, "Dancing Demoiselle" (Fall) (A4008).
 Raie Da Costa Ensemble, "Funny Face" (Gershwin) (A4074).
 Dajos Bela Orchestra, "Polish Life" (Nedbal) (A4008).
 Edith Lorand's Orchestra, "The Dollar Princess" (Fall) (E10512).
 Orchestra Mascotte, (a) "The Flowers' Dream" (Translatour), (b) "Whispering of the Flowers" (Von Blon) (A2559).
 Dajos Bela Orchestra, "Electric Girl" (Helmunburgh-Holmes), (A4009); "Casino Tanze" (Gungl) (A4081).

7.0 : News and market reports.

8.0 : Chimes. Relay of concert by the Municipal Band, under the conductorship of Mr. George Buckley, from the Auckland Town Hall.
 March—Band, "Crown of Chivalry" (Fletcher); overture, "La Sirene."
 Cornet duet—Messrs. F. Bowes and J. Davies, "Birds of the Forest."
 Selection—Band, "Der Rosen Kavalier" (Strauss).
 Flute—Mr. Hal C. McLennan, "Lied Ohne Worte" (Clinton).
 Humoresque—Band, "A Musical Jig-Saw" (Ashton).
 Clarinet trio—Members of the Band, "Concertante in G Minor."
 Characteristic piece—Band, "Juba Dance" (Dett); Suite Scenes, "Al-sciennes" (Massenet).
 Xylophone—Mr. Roland Jackson, "Silvery Stars" (Barsotti).
 Waltz—Band, "Brune ou Blonde" (Waldteufel); intermezzo, "Dream Flowers" (Translatour); march, "Cadiz" (Valverde).

10.0 : Dance programme from the studio (H.M.V.)—

Foxtrots—Leo Reisman and His Orchestra, "Puttin' on the Ritz."
 Jack Hylton's Orchestra, "Punch and Judy Show" (EA721).
 Gus Arnheim and His Orchestra, "Dancing to Save Your Sole" (Gilbert) (EA743).
 Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).
 10.12: Waltz—Ted Florito and His Orchestra, "Molly" (Goulding) (EA717).
 Foxtrots—The Rhythmic Eight, "Fairly on the Clock" (Myers) (EE209).
 Jack Hylton and His Orchestra, "The Kerp Step" (Young).
 10.21: Vocal duet—Esther Coleman and Foster Richardson, "The Voyagers."
 10.24: Foxtrots—Victor Arden, Phil Ohman, and Their Orchestra, "I Love You So Much" (Kalmar) (EA754).
 Coon-Sanders Orchestra, "Moanin' for You" (Goulding).
 Victor Arden, Phil Ohman, and Their Orchestra, "Dancing the Devil Away" (Harbach) (EA754).
 10.33: Waltz—Arcadians Dance Orchestra, "Melody Divine" (Ruby) (Zono.).
 Foxtrots—Bernie Cummins and His Hotel New Yorker Orchestra, "Minnie the Mermaid" (De Sylva) (EA751).
 Arcadians Dance Orchestra, "Evening Shadows" (Zono.).
 Ted Weems and His Orchestra, "Mysterious Mose" (EA751).
 10.45: Vocal duet—Esther Coleman and Foster Richardson, "Mountain Lovers" (Squire) (Zono. 5546).
 10.48: Foxtrots—The Rhythmic Eight, "Sweethearts' Holiday" (Kahal).
 Nat Shilkret and His Orchestra, "Singing a Vagabond Song."
 Jack Hylton and His Orchestra, "On Her Doorstep Last Night" (Hargreaves) (B5744).
 Gus Arnheim's Orchestra, "All I Want is Just One" (EA743).
 11.0 : God save the King.

3YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, JULY 11.

3.0 : Chimes. Relay of Rugby Football from Athletic Park.
 5.0 : Children's session, conducted by Aunt Molly.
 6.0 : Dinner music session (Parlophone)—
 Grand Symphony Orchestra, "Zempe" Overture (Herold) (A4020).
 Dajos Bela Orchestra, "Dynamiden" Waltz (Joh. Strauss) (A4118);
 "O Sole Mio" (arr. Lindemann) (A4014).
 Edith Lorand's Orchestra, "Three O'Clock in the Morning" (Robledo).
 Grand Symphony Orchestra, "The Tea House of a Hundred Steps."
 Dajos Bela Orchestra, "Be Embraced, Ye Millions" Waltz (Strauss).
 Berlin State Opera House Orchestra, "Aida" Selection (Verdi) (A4192).
 Berlin State Opera House Orchestra with Karol Szreter, pianist, "Hungarian Rhapsody No. 2" (Liszt) (A4109).
 Edith Lorand's Orchestra, "After the Ball" Waltz (Harris) (A4261).
 Grand Symphony Orchestra, "Japanese Cherry Blossom Festival."
 Dajos Bela Orchestra, "Souvenir—Valse Boston" (Pazeller) (A4014).
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Mr. A. D. McIntosh, M.A., a W.E.A. lecturette, "Traffic and World Affairs."
 8.0 : Chimes. (Note: This programme is subject to interruption to permit of a relay of a sound film feature from the Majestic Theatre.)
 Overture—Debroy Somers Band, "Mister Cinders" (Myers) (Col.).
 8.8 : Bass—Mr. W. W. Marshall, with orchestral accompaniment, "A Hundred Fathoms Deep" (Jude).
 8.12: Novelty piano—Mr. Allan Shand, (a) "Judy" (Mayerl), (b) "Soliloquy" (Bloom).
 8.16: Valse suite—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Southern Nights" (Guion); ballet, "Air de Ballet" (Hosmer).
 8.24: Quartets—Melodie Four, (a) "Eileen Alannah" (Thomas), (b) "The Old Folks" (Sheridan).
 8.30: Accordion—Rene Leroux and Bal Musette Orchestra, (a) "Pleasant" Foxtrot, (b) "Angusta" (Pettorossi) (Polydor 23619).
 8.36: Mezzo-contralto—Miss Marjorie Bennie, (a) "The Star and the Flower" (D'Hardelot), (b) "Mah Lindy Lou" (Strickland).
 8.41: Ballet—Salon Orchestra, "Mosquito Ballet" (Cortelyou).
 8.49: Baritone and chorus—Mr. R. S. Allwright, Melodie Four, with Orchestra, "Sailing" (Marks).
 Quartet—Melodie Four, "Betty Co-ed" (arr. Crowther).

8.56: March—Polydor Cavalry Band, "Foot Defile" (Konemann) (Polydor).
 9.0 : Evening weather report and station notices.
 9.2 : Selection—Salon Orchestra, "Songs of Italy" (Finck).
 9.10: Mezzo-contralto—Miss Marjorie Bennie, (a) "Tears that Children Shed," (b) "Almond Blossoms" (Arundale).
 9.15: Novelty piano—Mr. Allan Shand, (a) "I Miss a Little Miss" (Seymour), (b) "Valse Futuristic" (Revel).
 9.21: Tenor—Mr. Frank Bryant, with violin obbligato, (a) "I Heard You Singing" (Coates), (b) "There's a Song Down Every Roadway."
 9.27: Violin—H. Solloway, (a) "Valse Bluetie" (Drigo), (b) "Caprice No. 1"
 9.33: Selection—Salon Orchestra, "Decameron Nights" (Finck).
 9.41: Tenor—Mr. Sam Duncan, "The Lass with the Delicate Air" (Arne).
 Quartets—Melodie Four, (a) "I'm a-Longing for You" (Hathaway), (b) "In the Shadows" (Finck).
 9.51: Waltz—Salon Orchestra, "Silhouette Waltz" (Kramer); "Latest Dance Novelties."
 10.0 : Dance music programme (Columbia)—
 Foxtrots—Hal Swain's Cafe Royal Band, "Dance of the Paper Dolls."
 Ted Wallace and His Campus Boys, "Jericho" (Meyers).
 Hal Swain's Cafe Royal Band, "Petticoat Lane" (Regal).
 Waltz—The Columbians, "Christina" (Gottler) (01585).
 10.12: Foxtrots—Will Prior and His Stage Band, "Old-Fashioned Rose."
 Stellar Dance Band, "Sweetheart of All My Dreams" (Regal).
 10.18: Vocal duet—Ford and Glenn, "Tin Pan Parade" (Regal G20364).
 10.21: Foxtrots—Jan Ralfini and His Band, "Deep Night" Valse (G20514).
 Stellar Dance Band, "Honey" (Simons) (Regal G20487).
 Jan Ralfini and His Band, "Fashionette" (Regal G20514).
 The Harmonians, "Little Pal" (De Sylva) (Regal G20511).
 10.33: Waltzes—Rudy Vallee and His Connecticut Yankees, "By-and-By, Sweetheart" (Valentine) (Regal G20510).
 Bar Harbor Society Orchestra, "Celia" (Regal G20511).
 Foxtrots—Rudy Vallee and His Connecticut Yankees, "Caressing You."
 Will Prior and His Stage Band, "I Faw Down an' Go Boom."
 10.45: Vocal duet—Billy Jones and Ernest Hare, "Spring Is Here" (Regal).
 10.48: Foxtrots—Paul Specht and His Orchestra, "The Things That Were Made for Love" (Tobias and De Rose) (01561).
 Ted Wallace and His Campus Boys, "I've Got a Feeling I'm Falling" (Linck) (01586).
 Ipana Troubadours, "Old-Fashioned Lady" (Silver) (01561).
 Waltz—The Columbians, "Pagan Love Song" (01585).
 11.0 : Sporting summary.
 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, JULY 11.

2.50: Relay of running description of Rugby League Football from Monica Park.
 5.0 : Children's hour.
 6.0 : Dinner music session.
 Dajos Bela Orchestra, "Fantasia Orientale" (Lange) (Parlo. A4003).
 Ilya Livschakoff Orchestra, "Somewhere a Voice is Calling" (Tate).
 Paul Godwin's String Quartet, "A Fragile Spring Has Blossomed Forth" (Polydor 23374).
 Paul Godwin's Orchestra, "Pritzel Dolls" (Rauls) (21712).
 Bereny's Hungarian Gipsy Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (23691).
 Great Symphony Orchestra, "Edmund Eysler's Operettas" Selection.
 Ilya Livschakoff Orchestra, "Volga—Russian Medley" (Livschakoff).
 The Pozniak Trio, "Three Miniatures—Elegie" (Juon) (62549).
 Ilya Livschakoff Orchestra, "The Rosary" (Nevin) (Polydor 23648).
 The Paul Godwin's Dance Orchestra, "Little Birds' Evening Song."
 Edith Lorand's Orchestra, "After the Ball" Waltz (Harris).
 Bereny's Hungarian Gipsy Symphony Orchestra, "Original Hungarian Dance" (Bereny, arr.) (Polydor 23691).
 Paul Godwin's Trio, "Largo" (Handel) (Polydor 23374).
 Ilya Livschakoff Orchestra, "Troika—Russian Medley" (Livschakoff).
 Balalaika Orchestra, "Auf Dem Wege Nach Petersburg."
 7.0 : News session.
 7.30: Sports results.
 8.0 : Chimes. Overture—Regal Cinema Orchestra, "Viennese Nights Waltz Selection" (Romberg) (Col. DOX167).
 8.8 : Light baritone—Mr. Leslie A. Stewart, "Somewhere in Old Wyoming."
 8.12: March and waltz—Caledonian Society's Pipe Band, (a) "Donald Dhu" (arr. Logan); (b) "Mrs. Kirkwood" (arr. Glea).
 8.18: Songs at the piano with banjo—Rose and Thistle Duo, (a) "My Baby Just Cares for Me"; (b) "Sweet Jennie Lee" (Donaldson).
 8.24: Orchestral—Debroy Somers Band, "Polka" (Col. DO284).
 8.27: Pipes—The Pipe Band, march, (a) "79th's Farewell to Gibraltar" (arr. Logan); (b) Strathspey, "Sterling Castle" (arr. Henderson); (c) Reel, "Sleepy Maggie" (arr. Henderson).
 8.33: Humour—Mr. L. T. J. Ryan, "Claude" (as told by an Australian Digger).
 8.38: Concertina duo—Frances and Theo Gunther, (a) "Dream Thoughts" (Moss); (b) "The Turkish Patrol" (Michaelis).
 8.45: Male choir—Ural Cossacks, (a) "Hej Hej" (Trad'l); (b) "Signal March" (Kolatilin) (Polydor 21327).
 8.51: Highland war pipes—Soloist, Pipe Sergeant E. Dawson, slow march, "My Home" (arr. Glen); march, "Neil Flaherty's Drake"; strathspey, "Braes o' Mar"; reel, "Fairy Dance" (all arr. Logan).
 8.56: Chorus and orchestra—Florrie Ford and chorus, "Florrie Ford" Medley.
 9.2 : Evening forecast and station notices.
 9.4 : Orchestra and male quartet—Debroy Somers Band, "War Marching Songs" (Col. DOX106).

Sunday, July 12

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, JULY 12.

- 9.12: Baritone—Mr. Leslie A. Stewart, (a) "When Dawn Breaks Through" (Haydn Wood); (b) "Ten Thousand Years From Now" (Ball).
 9.18: Marches—The Pipe Band, (a) "Bugle Horn"; (b) "A Hundred Pipers."
 9.23: Songs at the piano with banjolele—Rose and Thistle Duo, (a) "You're Driving Me Crazy" (Donaldson); (b) "Under a Texas Moon."
 9.29: Pipes—The Pipe Band, March, "Back of Benahie"; Strathspey, "London's Bonnie Woods"; Reel, "Kilt is My Delight" (arr. Logan).
 9.34: Song and story—The Chatterboxes, "There's Nothing Like Jolly Good Health" (Weston and Lee).
 9.49: Concertina duo—Frances and Theo. Gunther, (a) "Valse De La Reine" (Coleridge-Taylor); (b) with piano, "Memory Lane" (Conrad).
 9.56: Pipes—The Pipe Band, Marches, (a) "Hills of Glenorchy" (Logan); (b) "Lochiel's Welcome to Glasgow" (Logan).
 10.0 : Dance music (H.M.V.)—
 Foxtrots—Arcadians Dance Orchestra, "Always" (Ruby) (Zono. 5560).
 George Olsen and His Music, "Sweet Nothings of Love."
 Arcadians Dance Orchestra, "At the End of the Lonesome Trail" (Ruby) (Zonophone 5560).
 Ted Weems and His Orchestra, "Slappin' the Bass."
 10.12: Waltz—Castlewood Marimba Band, "When Your Hair has Turned to Silver" (de Rose) (Brunswick 6021).
 Foxtrots—Johnny Hamp's Kentucky Serenaders, "Lady Luck."
 Victor Arden, Phil Ohman and Their Orchestra, "Why?"
 10.21: Vocal—Frank Luther, "The Moon is Low" (Freed) (EA727).
 10.24: Foxtrots—New Mayfair Dance Orchestra, "She's My Slip of a Girl."
 Leo Reisman and His Orchestra, "Mia Cara" (Kahal).
 Victor Arden, Phil Ohman and Their Orchestra, "It's You I Love" (Davis) (EA774).
 10.33: Waltzes—Castlewood Marimba Band, "Blue Pacific Moon-Light."
 Rudy Vallee and His Connecticut Yankees, "Sweet Susanne."
 Foxtrots—New Mayfair Dance Orchestra, "Spread a Little Happiness" (Ellis) (B5590).
 Nat Shilkret and His Orchestra, "May I Say 'I Love You?'"
 10.45: Vocal—Johnny Marvin, "Lucky Me, Lovable You" (Yellen) (EA727).
 10.48: Foxtrots—The High Hatters, "Singin' in the Bathing" (Magidson).
 New Mayfair Dance Orchestra, "In An Old World Garden."
 Nat Shilkret and His Orchestra, "Cross Your Fingers."
 The High Hatters, "Duke of Ka-Ki-Ak!" (Leslie).
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, JULY 11.

- 3.0 : Selected recordings.
 5.0 : Children's hour, conducted by Aunt Anita.
 6.0 : Dinner music session (Polydor)—
 Paul Godwin's Orchestra, "The Czarewitsch" (Lehar) (19678); "Lilliputian's Wedding" (Translatour) (19660).
 Paul Godwin's Orchestra, with organ, "Adoration" (Filipucci).
 Great Symphony Orchestra, "The Gipsy Princess" (Kalman) (27172).
 Paul Godwin's Orchestra, with organ, "Invocation" (Ganne) (19978).
 Paul Godwin's Quintet, "Vision" (Drdla) (19533).
 Opera Orchestra Berlin-Charlottenburg, "Si J'Etas Roi" (Adam).
 Paul Godwin's Dance Orchestra, "Little Butterflies" (Steinke).
 Paul Godwin's Quintet, "Chant D'Amour" (Franz Drdla) (19533).
 Paul Godwin's Jazz Symphonians, "Lots of Fun" (Morena) (19761).
 7.0 : News session.
 8.0 : Chimes. Relay of Vaudeville Programme from Station 3YA, Christchurch.
 10.0 : Dance session (Brunswick)—
 Foxtrots—Colonial Club Orchestra, "Out of Breath" (Mercer) (4848).
 Andy Kirk and His Twelve Clouds of Joy, "Sweet and Hot."
 Colonial Club Orchestra, "I Am Only Human After All."
 Tom Clines and His Music, "Bye Bye Blues" (Bennett).
 10.12: Waltz—Castlewood Marimba Band, "Waiting For You" (Green).
 Foxtrots—Colonial Club Orchestra, "Hittin' the Bottle" (Koehler).
 Ben Bernie and His Orchestra, "Highway to Heaven."
 10.21: Vocal—Allen McQuhae, "At the End of a Cobblestone Road."
 10.24: Foxtrots—Anglo-Persians, "In Memory of You" (Dubin) (4866).
 Ben Bernie and His Orchestra, "Love Comes in the Moonlight" (Dubin) (4850).
 Colonial Club Orchestra, "How Are You To-night in Hawaii?" (Leslie) (4866).
 10.33: Waltz—Ray Miller and His Orchestra, "Beneath Montana Skies."
 Foxtrots—Isam Jones' Orchestra, "Miss Hannah" (Redman) (4868).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Here Comes the Sun" (Freed) (4861).
 10.42: Vocal—Allen McQuhae, "The Dawn Brought Me Love and You."
 10.45: Foxtrots—Abe Lyman and His California Orchestra, "If You're Not Kissing Me" (Freed) (4891).
 Tom Gerun and His Orchestra, "Sittin' on a Rainbow."
 Castlewood Marimba Band, "Lo, Lo" (Feist) (4842).
 10.54: Foxtrots—Colonial Club Orchestra, "Out of a Clear Blue Sky."
 Tom Clines and His Music, "I'm Needin' You" (Young).
 11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, JULY 11.

- 2.50 to 4.30 p.m. (approx.): Sports relay.
 6.30 to 7.30 p.m.: Children's session
 7.30 to 8.0 p.m.: Sports results and talks.
 8 to 10 p.m.: Concert and dance programme, with sports results.

- 3.0 : Chimes. Relay of portion of Organ Recital by the City Organist, Mr. Maughan Barnett, from the Auckland Town Hall, interspersed with selected studio items.
 6.0 : Children's Song Service, conducted by Uncle Bert.
 7.0 : Relay of Divine Service from St. David's Church.
 8.30 (approx.): Overture—Berlin State Opera Orchestra, "Stradella."
 Soprano—Miss Edith Whittaker, "The Swallow Song" (Thomas).
 March—Orchestral Octet, under direction of Mr. Harold Baxter, March from "Damnation of Faust" (Berlioz); orchestral, Largo from "New World's Symphony" (Dvorak).
 Baritone—Mr. George Martinengo, (a) "Song of Songs" (Moya); (b) "Brian of Glenaar" (Graham).
 Evening forecast and announcements.
 The Orchestral Octet, incidental music to "Othello" (Coleridge-Taylor).
 Violin—Erica Morini, (a) "Verlassen" (Koschat); (b) "Dances Tziganes" (Nachez) (Polydor 69662).
 Soprano—Miss Edith Whittaker, (a) "Cradle Song" (Schubert); (b) "She Wandered Down the Mountain Side" (Clay).
 Intermezzo—Orchestral Octet, "Amorosa" (Bridgewater); serenade, "Sorrento" (Severne); romance, "Song of Adoration" (Hampson).
 Baritone—Mr. George Martinengo, "When I was a Bachelor" (Gregory).
 Choir—Tomanerchor, (a) "Silent Night, Holy Night" (Gruber); (b) "A Branch is Sprung Forth" (Pratorius) (Polydor 95376).
 Suite—Orchestral Octet, "The Fragrant Year" (Ewing); (a) "Spring Rhapsody," (b) "Summer Dance," (c) "Autumn Idyll," (d) "Neath the Winter Moon."
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JULY 12.

- 3.0 : Selected gramophone recordings.
 6.0 : Children's Song Service, conducted by Uncle George, assisted by the Children's Choir from the Terrace Congregational Church.
 7.0 : Relay of Evening Service from Taranaki Street Methodist Church. Preacher, Rev. T. R. Richards. Organist and Choirmaster, Mr. H. Temple White.
 8.15 (approx.): Relay of Concert by the Wellington Municipal Tramways Band from St. James Theatre (Conductor, Mr. E. Franklin).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, JULY 12.

- 3.0 : Gramophone recital.
 5.30: Children's Song Service by Children from Baptist Sunday Schools.
 6.15: Chimes from studio.
 6.30: Relay from Oxford Terrace Baptist Church. Preacher, Rev. L. A. North. Organist, Mr. Melville Lawry. Choirmaster, Mr. K. G. Archer.
 8.0 (approx.): Selected recordings.
 8.15 (approx.): Relay of programme from 4YA, Dunedin.
 10.0 (approx.): God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JULY 12.

- 3.0 : Selected gramophone recordings.
 5.30: Children's Song Service, conducted by Big Brother Bill.
 6.15: Selected recordings.
 6.30: Relay of Evening Service from St. John's Anglican Church, Roslyn. Preacher: Ven. Archdeacon W. A. R. Fitchett, M.A. Choirmaster: Mr. W. H. Allen.
 7.45: Selected recordings.
 8.15: Selections—The Sextette, (a) "Caprice" (Moszkowski); (b) "Carissima" (Elgar).
 8.23: Baritone—Mr. D. J. Stallard, (a) "Three Hundred Miles from London" (Drummond); (b) "Heart of Gold" (Manney).
 8.29: Ballet music—Band of H.M. Grenadier Guards, "Sylvia Ballet" (Delibes); (a) "Pizzicato"; (b) "Barcarolle"; (c) "March."
 8.33: Contralto—Miss Dorothy L. Stentford, (a) "When Maybells Ring" (Newton); (b) "God's Garden" (Lambert).
 8.40: Selection—The Sextette, "Four Pieces for Strings" (Bach).
 8.51: Tenor—Mr. Alfred Walmsley, with orchestral accompaniment, (a) "Donegal Hills" (Kirk-Burnand); (b) "Songs of Thanksgiving."
 8.57: "Cello—Miss V. Moffatt, "La Agreable" (Old French Dance).
 9.0 : Evening weather report and station notices.
 9.2 : Philadelphia Symphony Orchestra, "Hungarian Rhapsody No. 2."
 9.10: Baritone—Mr. D. J. Stallard, "Fiddle and I" (Goodeve).
 9.14: Selection—The Sextette, (a) "Dance of the Sunfeast" (Waller); (b) "Chanson Indoue" (Rimsky-Korsakov).
 9.22: Contralto—Miss Dorothy L. Stentford, "I Will Lift Up Mine Eyes."
 9.25: Selections—The Sextette, (a) "Valse des Alouettes" (Drigo); (b) "Danse des Bacchantes" (Gounod).
 9.34: Violin—Francis Aranyi, (a) "Melody" (Gluck-Kreisler); (b) "Tempo di Minuetto" (Paganini-Kreisler) (Polydor 90044).
 9.40: Tenor—Mr. Alfred Walmsley, with orchestral accompaniment, "The Holy City" (Adams).
 9.44: Piano—Mrs. C. Drake, "Joy of Man's Desiring" (Bach).
 9.48: Male quartet—Fritz Priess Quartet, (a) "In der Pfalz" (Beda-Benes); (b) "Lebwohl, Schwarzbraunes Magdelein" (Erwin-Beda).
 9.54: March—The Sextette, "Great Big David" (Lotter).
 10.0 : God save the King.

D.X. Topics

(Continued from page 13.)

WENR, Chicago, and WFAA, Dallas, were the best at R9. WGN, Chicago, WCCO, Minneapolis, WTAM, Cleveland, and WLW, Cincinnati, were R7. Two new stations, one on 3YA and the other on 1YA, were coming in at R6, but the New Zealand stations coming on the air at 5.30 p.m. prevented me from getting their calls. VK4LW, Rosalie, Queensland, was heard at good strength recently on approximately 1430 k.c. (210 m.). Has any D.X.-er received a verification from this station? A verification was recently received from KLO, Ogden, Utah 214 m. (1400 k.c.), with a power of 500 watts. Congratulations to Mr. Dudley I. Huston on his new D.X. record.—N. Jenkins (Masterton).

The Effect of Locality.

DO not know what part of Wellington "Red Bird" is situated, but his reception table in the "Radio Record," June 26, is, through my own experience, all wrong so far as my locality, Hataitai, is concerned. To put 2NC down as R1-2 at 11.15 p.m. would not be doing the station justice at 7.30 p.m. Late at nights all the A class Australian stations are about R8, with the possible exception of 3LO. The accompanying table (printed elsewhere—Ed.) gives an indication of my reception.—"Windswept" (Wellington).

"Red Bird" lives in Newtown and is separated from your locality by a range of hills. This undoubtedly largely accounts for the difference in reception strengths of Australian stations as received by you both. "Red Bird" is certainly not misjudging the strength of 2NC, because he has sent in another table this week (printed elsewhere), in which 2NC is rated as R2. Also, the great difference in strengths between his estimate and your own precludes the possibility of error.—Ed.]

Who Heterodynes 2YA?

SIX VALVE (Christchurch): Address of station 4ZI is Bachelor's Radio Service, Dee Street, Invercargill. I agree with E.W.V. concerning the heterodyning of 2YA by another station, which is evidently HCL, Adelaide. While the effect on 2YA is often not very pronounced there are times when a high-pitched whistle completely spoils programmes.—T.O. (Invercargill).

Ship Stations.

INVERLEITH (Wellington) and S.L. McC. (Greymouth): On June 7, 2ME, working on 197 m. (1520 k.c.), called up several ships. In the following the call letters only are given, as I am sure of the name of only one ship: First call at 7.35 p.m. was "Hullo, VJML." Second, "Hullo, VJMN. All O.K. I have nothing for you. Will call you at 10 a.m. to-morrow." Third call was "Hullo, VJQY." Mention was made of Port Lincoln. Someone by the name of "Mac" was spoken to and was to receive a further call at 9 a.m. next morning. Fourth and last call, "Hullo, VJMK." Call was finished at 8 o'clock. J.T.S. (Napier) states that WOAI can be heard every evening between 5 and 5.30 p.m. I have listened to this station several times lately and the latest I have heard him is 4.55 p.m. His time for closing is usually between 11.20 and 11.25 p.m.—R. Fleming (Huntly).

Recent Loggings.

LATEST loggings include 4ZW, Dunedin, 277 m. (1080 k.c.); WCHL, Chicago, 201 m. (1490 k.c.); XED, Reynosa, 312 m. (960 k.c.); WSPD, Toledo, 224 m. (1340 k.c.); JOPK, Shizuoka, 335 m. (780 k.c.); and WCAU, Philadelphia, 256 m. (1170 k.c.). W8XAR (KDKA), Pittsburgh, was heard testing on 306 m. (980 k.c.), on June 21 at 5.7 p.m. Volume approached that of 3YA and fading was absent.—R.J.R. (P.N.).

D.X. Club Notes

Members Total Nearly One Hundred

A Letter from the D.X. Editor

THE D.X. Club is making excellent headway. I thought there would be an excellent response, but when I counted the members this morning I was quite taken aback. There were nearly a hundred, and the club has been in existence only a week or so. How is that for progress? All the small numbers are disappearing rapidly, and most of the districts are into double figures. I was more than gratified, too, at the reception given the "Radio Log." So many D.X.-ers have sent in their subscription that I am putting considerable effort into the paper, in order to avoid disappointing them, and

can promise that it will be a really fine little book. It will probably be printed on a good quality tinted paper, and we hope will be illustrated. It will be slightly shorter in length and width than the "Guide," so that it will just fit nicely into the pocket—just ready to be brought out to settle some D.X. argument. I might add that I, too, am looking forward to the first issue of the little book to see just what it will look like.

Now let us look for a few minutes at the correspondence that has reached me concerning the club. In all about thirty members, in sending in their coupon, have commented on the club, and only one has levelled any criticism. Most of the letter speaks in high terms of the constitution, and wish the club all success. The idea of the president and the restrictions on the D.X. Cup seem to have been most favourably received. We are very anxious to receive opinions from members and prospective members, and shall give these every consideration. Once the club is properly swinging, we shall call another meeting to discuss several questions, among them the D.X. competition. However, that is very much "in the air" at present.

A word about the D.X. competition. The logs are rolling in in fine style, and there are some excellent ones among them too. Somehow, I feel there will be some surprises when the logs are considered. You can look for the result in our issue of July 17, though it is possible that the result will be announced in the "Radio

Log," which we hope to have out before the 15th.

A speedy decision, however, can be given only if those D.X.-ers who are asked to send in their cards will do so promptly.

As there is an American mail in this week, we shall allow a certain amount of latitude as far as late verifications are concerned. If anyone receives verifications from stations he wished to enter in the competition, he should notify us immediately, and we shall take this into consideration in deciding the winner.

Also, I would remind those with modest logs that there is a certificate for their district, and even if they do not win the cup they have a chance to win this. Also, the next highest in the cup winner's district will receive a district certificate. Town dwellers, do not forget the certificate being awarded to the towns. One of these would fit nicely among the verifications in the radio den.

Just a reminder that the battery cup is not for competition this period. It is to be awarded at the end of the year. However, we have seen one or two very good logs for battery sets, and these have a good chance of winning the district certificate.

It is hoped that the DX badges and the membership certificates will be to hand early this week and they will be sent on immediately. Do not forget in ordering DX notepaper to mention that you want the club's own paper, and, at the same time, give your own station number. This prevents non-members from using the paper with the official badge. Non-members can obtain the paper which has no reference to the DX Club. Several alterations have been made in the setting out of the forms and now there is a little more room where you want it most. I think you will approve of the change. The charges are as before—9d a dozen posted, with a minimum of two dozen. Six dozen can be had for 4/-.

American Reception.

AMERICAN stations have been coming in very well lately, and among others I have logged the following: KTM, WFAA, KOA and KGF. KFI, on a power of 50 k.w., has been coming in like the local, while KZRM can be heard nearly every night. 3BO is a splendid station, and it is a pity he transmits on the same frequency as 3YA.—"Seven-Valve" (P.N.).

Frequency of KZRM.

J.P. (Waihi) seems to query that the station on 3AR's frequency is KZRM. I can assure him that he is, since I heard the same fight and have written to him for verification.—"G. B. Boy" (Dunedin).

[The exact frequency on which KZRM transmits is 620 k.c. (480 m.). 4ZIL, Balclutha, was reported by several listeners in last week's notes.—Ed.]

An Unusually Favourable Evening.

DESPITE the fact that Wellington is in general a poor locality for the reception of Americans, conditions were so good on June 21 that a number of these stations, including the following, were logged:—WFAA, Dallas, Texas, 800 k.c. (375 m.); WENR, Chicago, 870 k.c. (345 m.); and WTAM, Cleveland, Ohio, 1070 k.c. (280 m.). These were all R9. Many more were heard, but owing to a big increase in the noise level after sunset these defied identification.—A.J.H. (Wellington).

New Brisbane Station.

ON June 21 the Americans were roaring in, especially WENR, WFAA, KRDL, WOAI, and several others. They were all at full loudspeaker strength. New loggings include:—WLS, Chicago, 344.6 m. (870 k.c.); KMTR, Hollywood, 523 m. (570 k.c.); and KPSS, California, 500 m. (600 k.c.). Has any DXer heard a station giving the call 4MW, Brisbane, on 227 m. (1320 k.c.)? I logged him about a week ago at R6, but have not had him since.—"Miner" (Brunner-ton).

Two Often-heard Americans.

KFI and KGO have both been relaying half-hour periods of dance music from the N.B.C. Room of the Hotel Francis, San Francisco. KGER, Long Beach, and WABC, New York, testing on 860 k.c. (349 m.) on the 22nd, have been very clear lately.—"Bill" (Hastings).

Simplify DX-ing.

DX CLOCK 9d.
DX VERIFICATION FORMS—
1/6 for 2 doz.; 8d. doz. over 6 doz.
Booksellers, Dealers, or Box 1032,
Wellington.

DX Club Membership

D.X. Editor,
Box 1032,
Wellington.

Dear Sir,—

I am very interested in D.Xing and wish to become a member of the DX Club.

I enclose herewith 2/6 for badge of the { brouch } type
and membership card. { screw }

I would like also to subscribe to the monthly D.X. magazine, "The Radio Log," and enclose 6/6, being 12 months' subscription, post free.

(Strike out last paragraph if not required.)

My set is a { a.c. }
..... { battery, using }

Name

Address

Non de plume

(Please use block letters.)



Questions and Answers

(Continued from page 15.)

except that it will not cover the whole of the broadcast band. 12M on 247 m. comes in on my dial reading 13, 13, 5, and 72L on 517 m. on 95, 86, 82. Should not the set tune between 200 and 550 metres?

A.: Not necessarily. You seem to be covering the bands where there are any stations worth listening to. Take a few turns off the first two coils.

2. You mention that you hope to match the coils so as to bring out a single or two-dial receiver. Has anything been done yet?

A.: Plenty has been done, but still we cannot give specifications that we could guarantee would give you perfectly match coils. You see how difficult it would be in your case to put the three coils on one condenser. It seems almost impossible to get the balancing properly (when using reaction) over the whole band. We think our readers will have to let us off that promise.

TIKEKO (Hinuera): My set has developed a crackling noise, but if I disconnect the earth and let it rest on the metal frame beside the terminal a great deal of the crackling is eliminated. Is there a short in the wiring somewhere?

A.: It seems very much like it, although the trouble may be due to a broken-down condenser. We suggest you take the chassis out of the cabinet and examine the wiring, very carefully tugging at the different joints likely to cause trouble. If you cannot get to the bottom of the trouble in this manner it will be a case of sending to the agents for repair.

2. Sometimes 2YA is not satisfactory strength, and the new Wellington station comes through at tremendous volume. I cannot fathom this.

A.: Neither can we. Reports of the reception of the two stations conflict. They can be explained only by atmospheric conditions in relation to their wavelengths. Many people complain that 2ZW comes in anything but well, and others point out that it is one of the best stations they receive. Probably neither station is at fault.

OVERTONE (Christchurch):—Can you give me advice on the purchase of a pick-up suitable for my a.c. set?

A.: We regret we cannot direct you to any particular make, as this would be against editorial practice. We have tested several pick-ups, and the reports have appeared in these columns. The best and

most expensive of these is the Audak, which has a frequency response from below 50 to well over 8000 cycles. Your set is probably limited to about 8000 cycles, with a sharp cut-off at about 5000 or 6000.

UNCERTAIN (Christchurch):—Could you advise me as to where I could obtain sufficient data on the construction of an efficient "A," "B," and "C" eliminator using a metal rectifier?

A.: You could obtain all the information you require from the 1931 "Radio Guide."

W.K.L. (Nelson):—Can you supply me with a circuit of the latest and most satisfactory battery-operated receiver? This should have three or four valves.

A.: We advise you to wait for the "Kestral" Three. This is easily the best receiver of its type, and will be described in these columns within a fortnight.

CRYSTAVOX (Dunedin):—I have read about a loudspeaker which works directly from a crystal set, having incorporated in it a type of microphone bar amplifier? Where could I obtain one of these speakers?

A.: We do not know anything about the agency for this set. Your best plan would be to purchase a microphone bar amplifier, and use this in conjunction with a good speaker. You would reach the same end, and would do so far more economically than if you went to the trouble of importing the speaker described; but microphone bar amplifiers, and the type of speaker you mention, as well as the book from which you took the particulars, are all long out of date. The best plan to get loudspeaker reception from a crystal set, if you cannot get it direct, is to make a simple one or two-stage amplifier. Modern valves are very light on batteries, and consequently economical to run.

N.W. (Dunedin):—I am troubled with interference by a nearby lighting plant. How can I remedy this?

A.: See replies and diagrams published in response to a somewhat similar inquiry, published elsewhere in these columns. The most satisfactory method is to use chokes

and by-pass condenser. The choke should have 150 turns of number 18 copper wire on a three-inch former. Your log appears to be quite a creditable one.

HAROLD (Dunedin):—I have an 8-valve combination electric set, and I am interested in shortwave. Would it be possible to use either the Night Hawk or Sparrow Hawk adapter?

A.: Use the Sparrow Hawk adapter, as described in the 1931 "Radio Guide." It would cost you roughly £3/10/-.

2. Would this be as good as the super. het. adapter described in the "Guide"?

A.: It would be easier to build and work though it would not give you the same signal strength.

"Midget Condensers"

OWING to heavy pressure on space, the continuation of last week's technical article on "Midget Condensers" has been held over for completion next week.

RANGER (Napier):—How many turns would I wind on a high-frequency choke for the Ranger Two?

A.: A suitable choke was described about three months ago in the "R.R." It consists of a thousand turns of wire on a former, of an average diameter of $\frac{1}{2}$ in., the wire to be wound in slot, about 36 or 38 gauge giving the best results.

2. Will a .0005 and an 11 moving and 12 fixed plates condenser do for the Ranger Two?

A.: Yes; the capacity of the condenser you mention is about .0003, and will do quite well for reaction.

3. Can I use a Philips valve A310 and a Mullard PM3 for the Ranger?

A.: Both these valves are out of date. The modern PM 3 has a filament voltage of 4, not 3.3 as you state. However, you could use both valves until you were able to get the newer types.

J.D.L. (Ruawai):—A certain brand of condenser is advertised as having a phase angle difference of $\frac{1}{25}$ minutes. Phase angle I understand, but 20 minutes is an extremely long time when dealing with electricity, so would you please explain?

A.: In all circuits of alternating currents such as those including condensers, there is a rise, fall and reversal of electric pressure or voltage, and also a rise and fall of current or amperage. The rise and fall of the voltage is not always in exact step, or in phase with the rise and fall of current. In an ideal condenser, which does not exist in practice, the current rise and fall would lead the voltage rise and fall by one-quarter of a cycle or 90 deg. All condensers throw the current and voltage slightly off from the 90 deg. ideal difference. The more the condenser throws the current and voltage out from this ideal difference the greater is the loss of energy. The amount of displacement is called phase angle difference of the condenser. The phase angle difference is the measure of poorness in a condenser—the greater the phase angle

difference, the poorer the condenser. In fixed mica condenser the phase angle difference generally becomes less and less as the capacity of the condenser decreases. A small fixed condenser has a slightly less phase difference than a large one of the same type. Phase angle difference is therefore measured in degrees or in parts of degrees. A sixtieth part of a degree is called a minute. Therefore to say that your condenser has a phase angle difference of from 20 to 25 minutes implies that the angle is less than one degree, which indicates a good condenser.

2. Is there an officially recognised for radio servicing, etc.?

A.: If you supply us with the word between "recognised" and "for" we will try to answer your question.

3. Is one allowed to have an h.f. oscillator for set testing purposes, and not hold a transmitting license?—Yes.

T.R. (—):—I wish to construct a 20/30 heavy choke and have stallion already cut.

A.: Your best plan is to make a bobbin so that it will exactly fit the window, that is 5/8 in. x 1 7/8 in. Fill the bobbin with 34 gauge wire.

Laboratory Jottings

Dual Gramophone Motor

WE have received from Standard Telephones and Cables a dual gramophone electric motor and have given this a thorough test under all conditions. The "Dual" is constructed upon a new principle which ensures even, silent operation. The armature windings only rotate as different from the normal gramophone motor in which the iron core moves.

This has the effect of making a quick start and stop, and in our test this was a noticeable feature. It means that no sooner is the automatic stop touched than the turntable almost immediately comes to rest. This latter attachment is most efficient and is one of the best arrangements for automatic stopping that we have seen. It works, and works well.

The finish of the motor is excellent, reflecting most favourably upon the manufacturer. It is a motor which we consider should give every satisfaction.

SPECIAL VALUES

0-50 Pocket Voltmeters, 7/6. Now 5/-
171 A.C. Tubes, for Electrics, 18/-
Now 10/6
Tone Controls, for Push-Pull Sets, 1/6
Speaker Extension Cords. 20ft., 1/6
Speaker Extension Cords. 50ft., 1/6
Extension Cord Connectors 1/3
Hydrometers—small, 2/3; large, 3/6
"C" Batteries, 4½-volt, 1/-, 3/9; 9v. 2/9
Spark Tester and Pencil, 1/6; large, 1/9
3-Valve Radio, complete . . £12/10/-
Speakers from 37/6, less special discount

ROYDS-HOWARD CO.,

553 Colombo St., Christchurch.

"SUPREME" INSTRUMENTS

You cannot service to-day's radio with yesterday's equipment. So that when you buy a Valve Tester or Set Analyzer now to replace the one incapable of giving a modern complete service, be sure it is a



MODEL 19 VALVE TESTER.

"SUPREME"

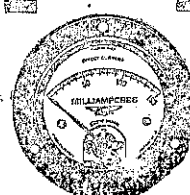
Supreme instruments were the only instruments capable of giving a complete test of all American Valves (including the Pentode) and circuits before the arrival of the American Sets with the Pentode Valve.

Distributors:

Thos. Ballinger & Co., Ltd.

58-62 VICTORIA STREET, WELLINGTON.

"WHERE THE QUALITY GOODS ARE SOLD."



There is a JEWELL Measuring Instrument for every type of Radio and Electrical Requirement. If unable to obtain, write direct to—



Factory Representatives for New Zealand:
ABEL, SMEETON, LTD., Customs Street East, Auckland.

Short-wave News

3UZ, Melbourne.

STATION 3UZ on about 32 metres is on the air again. The station can be heard on Tuesday and Friday mornings from 12.30 a.m. till 1 a.m., and on Tuesday afternoon from 3.30 p.m. till 4 p.m., New Zealand time. An input power of 500 watts is used. Reports of reception are requested, and should be addressed to 3UZ Broadcasting Station, Bourke Street, Melbourne, Victoria.

Radio Paris.

THE following particulars of the new French short-wave station operating on 25.63 metres are from a recent issue of "Listener In" (Melbourne):—

"The address of the new Paris station which is now being received so strongly during the breakfast hour is 'Radio Paris,' of the Compagnie Française de Radiophonie, 16 Rue de Reiner, Paris. The name of the street is not certain, as we have had to rely on doubtful phonetics for its spelling. Paris will be quite sufficient, however, because 'Radio Paris' and the C.F.R. is well enough known. The programmes being broadcast are apparently those of the long-wave station on 1725 metres, and the full announcement is as follows: 'Allo! Ici le poste de Clichy de émission Radio Paris de la Compagnie Française de Radiophonie,' and at the conclusion of the transmission: 'Bonsoir, mesdames; bonsoir, mademoiselles; bonsoir, messieurs, followed by the 'Marseillaise,' the French national anthem. The station has just completed and is located at Pontoise, near Paris."

CJA, Canada.

THE Canadian terminal of the beam service at Montreal, CJA, 24.79 metres, is now engaged on a series of telephony tests with Rockbank and Balan (Australia) terminals on 25 metres.

Radio Saigon and Radio Manila.

BOTH these stations, which have not been heard in New Zealand for some time, are now coming back. They are both still on the 49-metre band.

Rotary Radio Greetings.

WITHOUT a doubt the most interesting event heard on short waves during the past week was the exchanges of greetings and musical numbers between the Rotary Clubs of Schenectady, New York, through station W2XAF, and the Melbourne Club, via VK2ME, last Thursday evening. Reception from the commencement of the proceedings at 10.30 p.m. till the final good-night at 11 p.m. was near perfect from both stations at full speaker volume.

Both VK2ME and W2XAF came on the air nearly an hour earlier, when final arrangements were made. The American station during the earlier part of this period was distorted, but soon improved.

FOR SALE OR EXCHANGE

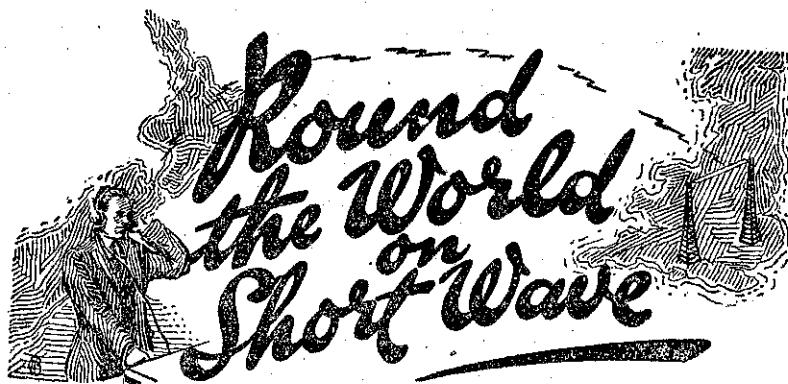
The rate for small advertisements under this heading is 1/6 cash for 20 words, and twopence for every other word thereafter

FOUR UX 199 Radiotron Valves, used one week, replaced by 201A, 14/- each or reasonable offer. "Valves," Box 1032, Wellington.

WHY be overweight? Take Youth-O-Form. 20lb. reduction 6 weeks. Absolutely harmless. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

FAT People troubled with indigestion will secure welcome relief by taking Youth-O-Form Capsules. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

STOUTNESS! Dieting and exercising not necessary when you take Youth-O-Form Capsules. 20lb. reduction 6 weeks. 6/6 posted. A. C. Timms, Chemist, Pahiatua.



Log for Week Ending June 27.

THE following log is for a small part of the week only, as I was out of town for a few days, but it will serve as a guide as to what to listen for.

RV15, Siberia, 70.1 metres: Volume good each evening.

HVJ, Vatican City, 50.26 metres: Excellent volume and quality each morning from about 6.30 a.m.

Moscow, 50 metres: Sunday, Friday, and Saturday at 7 a.m. about R8, but noisy each morning.

W9XF, Chicago, 49.53 metres: Sunday, R7 at 4 p.m., gushy and distorted. Saturday, better volume and quality, but very noisy background.

ZL2ZX, Wellington, 49.51 metres: On Saturday evening this local shortwave station came in well, quality being excellent.

W8XAL, Cincinnati, 49.5 metres: Sunday, 4 p.m., R8, increasing to R9 by 5 p.m. About the same on Friday and Saturday at the same time. They were heard again on Saturday night till 11.30 p.m. at R8, but background noises were bad.

W2XE, New York, 49.02 metres: R6 on Sunday at 4 p.m. Static was bad.

W3XL, Boundbrook, 46.69 metres: Very gushy at 4 p.m. on Sunday. Volume was R7.

REN, Moscow, 45.4 metres (about): Sunday, Monday, Friday and Saturday good volume each morning, but Saturday was by far the best, being R9 with one stage of audio. Quality also was good.

VK3ME, Melbourne, 31.55 metres: Thursday from 9.30 p.m. R9; again on Saturday evening; also good volume, but severe fading at times.

W2XAF, Schenectady, 31.48 metres: Sunday, reaching R9 by closing time—3.30 p.m. Thursday, about 9.30 p.m., R8-9, slightly distorted, improving by 10 p.m. and reaching R9. On Saturday volume was R3 at 11.30 a.m., slowly increasing to R9 by 3 p.m.

Zeesen, Germany, 31.38 metres: Friday and Saturday, R8 at 7 a.m., very gushy each morning.

W1XAZ, Springfield, 31.35 metres: Very gushy on Sunday. Saturday was better, R5 at 3 p.m. with an organ recital, increasing to R8-9 by 3.30 p.m. They signed off at 3.45 p.m.

PCJ, Eindhoven, Holland, 31.28 metres: Saturday, 12.30 p.m. till after 1 p.m. R8-9. Again from about 3 p.m. till 3.20 p.m. at R9 with a programme for North and Central America. From 4.15 p.m. a special programme was broadcast for Australia and New Zealand. This was received at R9 but slight static marred reception.

Radio Paris, 25.63 metres: Weak early, but from about 8 a.m. volume reached R9 and continued at this till about 10 a.m.

G5SW, Chelmsford, 25.53 metres: Not so good again now. Saturday was R8 from 8 a.m. till 10 a.m., from then till 10.30 a.m. volume decreased to R7. Reception was gushy all through, but the final announcement from Chelmsford was 100 per cent. readable, when giving details of the next programme to be radiated by G5SW.

12RO, Rome, 25.4 metres: Weak at 7 a.m., reaching R9 by 8 a.m., continuing good volume, and quality for some time

D.X. NOTEPAPER.

Makes sending for verifications easy.

Per two dozen lots, 1/6 posted.

Per 6 dozen lots, 4/- posted.

Special paper for members of the DX Club. State your station number when ordering. Non members can still get the ordinary notepaper from booksellers and office. D.X. Club paper from office only. Write to Box 1032, Wellington.

was the result of Sunday, Friday and Saturday listening.

W5XK, Pittsburgh, 25.25 metres: Sunday, 1 p.m., R7-8 and gushy, reaching R9 by 2 p.m., remaining at this till signing off at 3.30 p.m. Saturday R8 at 8 a.m., very gushy. 11.30 a.m., R7 till

N.Z. Short-wave Club

A MEMBER writes in to say that he saw one of our cards in a Ham station reporting him QSA 6. Evidently he must imagine it to be a super station because most stations are exceedingly pleased to get QSA 5 (the maximum).

Home trouble; I had a visitor recently who built a set and on a friend's advice made several alterations. The technician specifies a certain style of coil, which is made a certain way. To alter the coil and condenser values and wiring makes it a different set altogether. If the rule of following the diagram is observed and the set is kept just below oscillation results will be much better. If you can get a signal clearly, do not try to make it louder or else your neighbours will be annoyed. Finding stations while the set is on the verge of oscillating will be simpler, hand capacity, etc., being reduced.

Letters from shortwavers in New Zealand and abroad are appreciated, also information which we can pass on. Address: A. B. McDonagh, 274 Cuba Street, Wellington, New Zealand.

Re-allocation of Frequencies

THE International Union of Radio met a short time ago in connection with a re-allocation of frequencies used by stations other than those on the broadcast band. So far very little is known of the conclusions arrived at, but it is understood that a definite scheme has been formulated, and this will be placed before another conference to be held next year.

To give an idea of the method of allocating the different frequencies it is necessary to go back to 1927, when a congress was held at Washington and an endeavour made to arrive at a practical solution of the problem. This conference fixed the scale of wireless telegraphic frequencies for the use of ships, aviators, amateurs, etc. The International Union of Radio erected a station at Brussels and endeavoured to maintain the decision of the conference in Europe, and ever since that date has continuously studied radio telegraphic conditions on the Continent.

After a period of four years it has now become apparent that some alteration in the allocations made by the Washington Conference are necessary, as the growing use of long-distance wireless telegraphy, etc., is adding enormously to the difficulties experienced through the present frequency division.

Of Topical Interest

ITALIAN stations are actively extolling the virtues of the wines of their country over the air. Talks dealing with the subject are given in five languages.

SOVIET Russia is the only country that broadcasts more talks than entertainment. More than three-quarters of the programme consist of propaganda and educational talks, 20 per cent. being devoted to amusement.

AN American station at Schenectady has a sound film apparatus installed in its auditorium, and, should there be any doubt as to the radio qualities of a prospective performer's voice, a sound film is first made of it. This enables the voice to be judged and at the same time safeguards the singer's reputation.

IN buying New Zealand-Made Goods the money comes back to you. In buying Foreign Goods the money goes away.

In buying an Add-a-Phone you buy a New Zealand-Made article of assured quality and definite performance, backed also by a service unexcelled; and with confidence you can combine New Zealand-Made Goods with Performance and Service.

Mack's Radio Service

76 Kent Terrace, Wellington.
Tel. 23-448.

Mullard
THE MASTER VALVE

Embodies all improvements
known to Valve Manufacturers.

Too Much Accent.

A PARAGRAPH from "John o' London's":—

"I have been troubled for some time by that aristocratic accent which is usually practised by the richer classes, and often imitated by the lesser ones. A person I know thinks that it is a mark of good education and good taste. I maintained that it is bad taste, and that it would not be used by a well-educated person of good sense, whatever he was brought up in. Would you mind putting us right?" My friend must remember that what he calls the "aristocratic accent" is acquired in aristocratic surroundings in just the same way as the Whitechapel accent is acquired in Whitechapel, and that those who are early-trained to use them are to an extent blameless. This does not alter the fact that both accents are bad. It is as bad to pronounce "refined" "refayned" as it is to pronounce "paper" "piper." Each may be a mark of education of a certain grade, but neither is a mark of good taste.

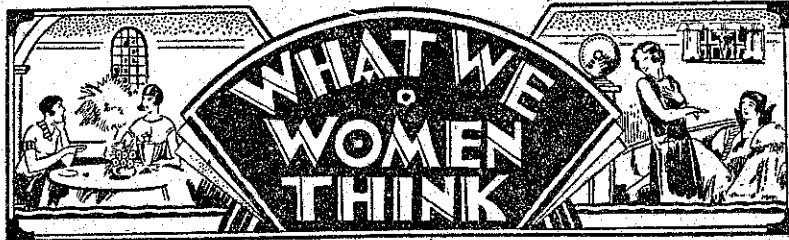
The Tint That Cheers.

THE narrow hall in small houses is usually badly lighted, as far as natural light is concerned, usually depending upon the fanlight over the front door or the light that trickles downstairs from a landing window. For this reason it is a wise plan to keep to a cheerful colour scheme, and avoid dark tints. Wallpaper may be used, but large patterns must be avoided; indeed, one well-known decorator advises against patterned wallpapers for halls, and makes this a general rule. Plain papers, distemper or paint can be used with good effect. Warm tones of yellow are generally successful—they suggest sunshine and brightness, and as well as reflecting more sunlight than dark colours, they yield better results for any given amount of artificial light.

Warm tones of cream or beige or a carefully-chosen pale green tint that are also pleasing and certain tones of grey are satisfactory, if adequate colour relief is afforded by carpets and curtains. A cheerful colour scheme for a tiny hall in a small house or country cottage can be achieved with whitewashed walls and ceiling, brick red stair carpet or rush matting, and a floor surround of red tiled linoleum (if the hall lacks red tiles) round a square of rush matting.

Life Aboard a Soviet Ship.

A WELL-KNOWN resident of Wellington, now abroad with her husband, writes thus concerning the Soviet, with which they are both entirely in sympathy:—"We embarked for Red Russia at London Bridge, in a Soviet ship, and sailed away down the Thames on a spring evening under the great uplifted span of the Tower Bridge, our passengers singing lustily the International, to the delight of our Russian crew and the English dockers on the wharves. It was most interesting to observe the attitude of the crews and passengers of other ships as we passed them. One pleasure steamer returning from Margate, and crowded with readers of the 'Daily Mail' (the most scurrilous and popular Tory paper in England), received our farewell waves in stony silence, with the exception of one steward in the bow, who waved unobtrusively as if frightened the captain might see him, but a Soviet incoming ship shouted friendly greetings to us. Mostly, though, we were coldly received by all nationalities



with the exception of a sailor here and there. Our cabin was far more comfortable than any we have had on the crossing to Australia, though not so elaborate as the one we had on our last voyage to England: two real beds, dressing-table, wardrobe, water laid on, electric fan, steam heat and reading lamps, with simple and tasteful decoration. It is only costing us £25 a head for a month's trip in the Union, travelling, theatres, concerts, sight-seeing, May Day celebrations and all included!

"The voyage was a revelation, crew and passengers mixing together like friends and all class distinctions gone. The food was truly marvellous, well cooked and quantities of it. It is merely put before you on huge silver platters and you help yourselves. The cabins of the sailors were identical with ours, and so was their food. At the end of their mess-room was the Lenin Corner, with a little bronze statue of their great man draped in red, a long table spread with a red cloth and covered with attractive

magazines and papers printed in the Soyuz (the Soviet Union).

"There was a wireless set and a gramophone and dance records (though the prevalent taste seemed for classical music), dominos and chess. Never have I seen such men as these—gentle, courteous, intelligent, magnificent workers, and working with an enthusiasm for their Union which seemed almost unbelievable. The third mate was a woman, a charming looking girl of 28, dressed in her officer's coat. The attitude of these Communists toward women is something most interesting to see. There is absolutely none of the gaucherie and unpleasant love-making so common among our men-folk, but a real camaraderie, and work for the Union comes before anything else.

"Their Caucasian dancing was a revelation to watch, and their singing of 'Stenka Razin' and other revolutionary songs to the music of 'Bala-laikas' was wonderful and moving to hear."

Our Cookery Corner

Parsley Wine.

Ingredients: One pound of parsley, five quarts of water, three pounds of brown sugar, two ounces of whole ginger, two oranges, two lemons, and one ounce of compressed yeast.

Method: Bruise the ginger and tie loosely in muslin with thin rind of oranges and lemons. Boil these and the parsley for half an hour in the water, and then pour, whilst still boiling, over sugar and the juice of fruit. Stir well, and when it feels comfortably warm to the finger work it with the yeast (mixed with a teaspoonful of soft sugar, a little warm water, and spread on slice of warm toasted bread). Lay this on top of liquid, cover with a cloth, and leave for three days.

Then lift out the toast and muslin bag, strain into cask, cork lightly until it ceases to work, bottle, cork well, and keep for six months to a year.

Cheese Souffle.

Ingredients: Three-quarter breakfastcupful of milk, a level dessert-spoonful of cornflour, the whites of three eggs, the yolks of two eggs, 2oz. grated cheese, a pinch of bi-carbonate of soda, a sprinkling of pepper, a good pinch of salt, a few grains of cayenne.

Method: Mix the cornflour with a little of the milk. Boil the remainder, mix it with the cornflour, return to the saucepan and stir while it boils for five minutes. Season with salt, pepper and cayenne. Stir in the cheese, and when well mixed stand it

at the side of the stove, where it cannot boil.

Put the egg yolks into a basin, break them with a wooden spoon, then add the cheese mixture. When evenly mixed, fold in the stiffly-beaten egg whites and the bi-carbonate of soda. Turn into a buttered dish and put in a hot oven. Slacken the heat to moderate after ten minutes, and bake fifteen minutes more.

Barcelona Eggs.

Ingredients: 4 eggs, 2oz. butter, 2 large Spanish onions, 5 large tomatoes, pepper and salt.

Method: Peel and cut onions into thin slices. Melt butter in a frying pan, add onions when it is smoking hot, and cook thoroughly, stirring occasionally. Then add tomatoes, peeled and quartered, and seasoning to taste. Cook slowly till tomatoes are soft, then gently turn into a hot dish. Serve fried eggs on top.

Coffee Cream.

Ingredients: 1½ pints milk, 3 eggs, 4oz. gelatine, 1 gill thick cream, ½ gill strong coffee, 2oz. castor sugar.

Method: Dissolve the gelatine in hot coffee. Beat the eggs and pour, with the milk, into a double boiler. Stir over boiling water until thick, then add sugar. Take off the fire and stir in the gelatine and coffee. Pour the custard into a basin, and when slightly cool, but not set, stir in the whipped cream. Stir very lightly together, then gently pour into a wet mould. Turn out when set and decorate with whipped, sweetened cream flavoured with vanilla.

Those Intimate Garments.

MODERN underwear is tailored so carefully to-day that the smart woman considers a visit to the lingerie fitter as essential as the visit to the dressmaker and tailor. Never before in the whole history of fashion have "beneaths" been of more importance than that which is worn over them. With the slender frocks of to-day, one garment, or at the most two, are considered necessary, and all superfluous fullness must be eliminated. Modern lingerie moulds the figure—it is space-saving and must also act as the foundation of one's frock. There are slim little under-shirts made to wear with little satin shorts or tailored culottes which have a hip yoke and are cut like riding breeches. Two-piece foundations for sports or dance wear consist of these tailored satin shirts attached to a brassiere which are worn with tailored knickers. Soft waistgirdles of satin are first favourite among lingerie materials both for appearance and durability. Coffee-coloured spotted net or applique motifs of the reverse side of the satin trim the most modish underwear in this material.

Not So Easy.

To be a successful short-story writer you cannot afford to make mistakes. You must have the gift of vivid and terse expression and be able to suggest more than you have to say. Character has to be delineated rather than developed—in fact, you must be a master of dialogue. If you can cut out 100 words and not upset the story, then surely it is not yet a good story. De Maupassant is the great master of the short story. Kipling, unlike Edgar Allan Poe, whose short stories are fantastic, noisy and emphatic, says things quietly and obtains his finest effects with the utmost economy of literary means. His tragic tales are examples of masterly simplicity.

Woman as Artist.

FEMALE doctors are now fairly numerous in all civilised countries; and there are female lawyers, bankers, accountants, architects and politicians; with women painters of eminence like Mrs. Dod Proctor and Dame Laura Knight. There is a sculptress now in England who gained public attention by a masterly bust of a well-known judge. Mrs. Mitchell lives in a Somerset village and has chiselled portraits of Mr. Galsworthy, Thomas Hardy and other notable people. There are some who speak of her as the feminine rival to Epstein, and no doubt they mean it as a high compliment to the lady's great originality and technical craftsmanship.

Back to the Land.

IN the 1921 census of England and Wales 20,000 women were returned as farmers, and it is said that there are altogether more than 100,000 women working on the land. Many are trained in horticulture and fill well-paid posts in the gardening world. Some are in charge of large private pleasure gardens, of which they undertake the whole organisation and direction. They are better educated and more scientifically trained than the average head gardeners on estates, and are not infrequently preferred to men for that reason. Others manage small gardens where they carry on all the work with the help of casual labour for the heaviest jobs. There is a demand for college-trained women for managing private gardens and those attached to schools and institutions.

... With ... BOOK and VERSE

By "John O'Dreams"

Our Fortnightly Book Review

"THE INKY WAY"

By Alice Williamson

ONE of Mr. Victor Gollancz's latest enterprises is a "Holiday Omnibus," a volume of a thousand pages containing three novels, one by Gaboriau; four short stories, one by Lady Eleanor Smith, and three chapters "from real life." Mr. Besier's play, "The Barretts of Wimpole Street," is included with Mr. Humbert Wolfe's "This Blind Rose." Mr. Gollancz is also going to give us Mr. Fagan's play, "The Improper Duchess."

EVERYBODY nowadays writes his or her own autobiography. An unusual one appears this week called "In the Days of the Giants," by Mr. W. J. Doherty, the "fighting quarryman," who was at one time middle-weight champion of Africa and heavy-weight champion of Australia. The book is sponsored by young Lord Knabworth, who says that it "breathes the finest and best atmosphere which the boxing world has ever known."

MR. DESMOND COKE, the writer of stories of school life, who has died at Worthing at the age of 51, was in his own words "an incurable collector of objets d'art." But he was an unlucky collector, for shortly before the war almost all his treasures were destroyed in a fire, and in 1928 the collection of Rowlandson drawings which he had lent to the Tate Gallery was damaged by the Thames flood. For ten years Mr. Coke was a master at Clayesmore School.

THE "Life of Sir Edmund Gosse," by the Hon. Evan Charteris, will be eagerly looked for by the literary cognoscenti. Gosse was the reconciler of the Ancients and the Moderns. He never lost his reverence for the great writers of the nineteenth century, in whose pages his youth and earlier manhood had been passed. But his respect for the eminent Victorians stopped a long way this side of idolatry. Because Tennyson and Browning and Swinburne had written splendid verse, it did not follow that the tale of English poetry was closed for ever. Nor did he think that George Eliot and Meredith were the last novelists worth reading. Gosse was just as much interested in the newest phases of literary activity, in France and England, as in those of the past, and had a keen eye for les jeunes, not only for their works, but for themselves. As a consequence he himself kept young in mind and spirit to the end. It seemed hard to think of him as old, even when he was really so by the calendar.

EVERYBODY read the Williamson books a couple of decades ago. Those gay tales of motoring trips and trials by the talented collaborators, C. N. and A. Williamson. Now that this happy partnership—happy in every sense of the word—is dissolved for ever, Mrs. Williamson again takes up the pen she wields with energy, ability, and charm, and in her reminiscences in "The Inky Way" tells the gay, brave tale of the life together, literary, social and personal, of herself and her handsome and gifted husband, Charles Williamson.

She could always write stories, even in America, where she spent a happy girlhood, and was taught that "you could be a gentlewoman only if you were gentle; that manners weren't good unless you were kind."

Wealthy relatives were desirous of taking the gifted and beautiful niece for a trip to Europe, but as it turned out she chose liberty and independence and life in London, taking the risks with a gay heart. For her first few months in the great city she had little money and no friends, but both these drawbacks were speedily remedied, for it would seem Mrs. Williamson was born for success and a place in the sun. Soon she met "Charlie" Williamson, able journalist and dashing young man about town, and on both sides it was love at first sight. Thus began an idyll of comradeship in work and in play, and a great romance that ended only when they came to "Crucifix Corner," and Charles Williamson, like many another good and brave man, as a result of overstrain during the years of war, passed beyond the voices of the world he loved so well.

But before that time came there were many happy years, and in spite of hard striving, strenuous days, and tight financial crises, this is not a sad book, but essentially gay and courageous. Inexpressibly amusing is the account of their adventures in what was

then a new method of travelling—the automobile. "Our first car's entity," says the author, "was capable of any crime, as it proved in mud and blood during that odyssey. After crossing the Channel, its true nature appeared—a beast, a brute, a curse. Oh, how we hated it, little dreaming that we should owe to it what came of fame and fortune." For that journey provided "copy" for their first book together, "The Lightning Conductor," Mrs. Williamson supplying the fiction and "Charlie" the photographs and facts. Besides working on the novel that was destined to make them famous, clever Mrs. Williamson during the journey succeeded in regularly sending instalments of six different serials to the Harmsworth magazines.

In the book are described their many and delightful homes in England and on the Continent, where they lived happily and generously, meeting most people, in Europe and elsewhere, who were worth the knowing, and the author shows an extraordinary knack of description, so that her personalities live in the imagination. Thus she describes their first landlord when they returned to England from that early arduous journey: "So ancient that he was among the few living veterans of the Crimean War, and the handsomest old man imaginable. His profile might have been graven on a Roman coin, but his grammar would have disgraced a charity school child. His favourite maxim, 'Right's right, the world over.'"

Later they bought another car and toured Germany, dropped down to the Riviera, and studied Monte Carlo and its habits, the book making running comment on powers and potentates of all sorts and conditions with whom they rub shoulders.

This is Mrs. Williamson's first impression of the then Sir Alfred Harmsworth: "Almost boyish, with big blue eyes, and that fair-famous lock falling over the high forehead. Surprised by

"MONEY Writes" is the title chosen by Mr. Upton Sinclair for his new volume of literary criticism, and Miss Katherine Mayo's new book, "Volume Two" is a commentary on the 5000-page report of the "Age of Consent" Committee in India. The admirers and detractors of Miss Mayo's much-discussed earlier book, "Mother India," will await her latest effort with eagerness.

IN "Hope Against Hope," recently published, Miss Stella Benson is up to her best literary form, and that, her admirers do not need to be told, is high praise. She is so able and so detached in her methods, such a keen observer and satirist. The stories are slight in plot, and some of the characters of no great interest, but Miss Benson's deep knowledge of humanity, her fastidious sense of style, and sure touch upon emotion, make it as outstanding as her earlier books.

his startling good looks and his youthfulness, it occurred to me that he was like pictures of Napoleon."

Of George Meredith she comments: "We saw the great man among the flowers, his silver head of perfect shape, and ivory-coloured profile gleaming statue-like above red ranks of roses. I hadn't believed it possible that he could spout the dazzling epigrams which sparkle in his books, but he was born that way and couldn't help it. Having tea with him was like having tea with a king ought to be and isn't."

And there is poignant note: "For years I knew well, and always delightfully, Sir Arthur Pearson, with his nest of big and little magazines. Dark, with extraordinarily brilliant brown eyes, destined to lose their light one day. One afternoon, just before the war, I met him on the steps of the Hotel de Paris at Monte Carlo. 'Is it twilight already?' he asked. 'Or—do I only think so?' A startled glance showed me that over the brilliance of those brown eyes a slight dimness had fallen, like an intangible mist. And a few years later, when the dimness had thickened to impenetrable fog, Sir Arthur said to me: 'I am glad to be blind, because if I had kept my sight I should never have thought of St. Dunstan's. Being able to do something for the poor chaps who have sacrificed their eyes in the war more than repays me for what I've lost or suffered.' The next greatest blind man to Homer and Milton."

The book covers a wide canvas, and is a clear-cut, true, and brilliant picture of many events; of an entire sophistication, yet ingenious in parts, and always written with an engaging frankness.

FAMA For Bathrooms, Lavatories,
Sink-tops, etc.

FAMA STONEWOOD FLOORING CO., Wellington.

This power valve is noiseless!



It's
MADE IN ENGLAND
*...and
made better*

THIS is the Osram MX.245 power valve. Within its characteristic limits it gives unparalleled results in all output circuits—extraordinarily distortionless amplification, ample current capacity, and complete freedom from all microphonic noises. It is the *only* 245-valve in the 2.5 volt range that is noiseless under all conditions of operation. You can test Osram '2.5' superiority at your Radio Dealers. Ask to switch on any set, tune out all stations and tap the 224 or 227 detector. If it is microphonic the speaker will emit a pinging noise, indicative of imperfect reception. If the microphonic valves are replaced by Osram 2.5s, tapping will result in silence.

Osram
2.5
ac **Valves**

Ask your dealer also to show you the full range of Osram 2.5 volt valves—
MY.224, MY.227,
MX.245 & MX.280

**MADE IN
ENGLAND**

Advertisement of the
BRITISH GENERAL ELECTRIC CO. LTD.

37 Taranaki Street, Wellington.

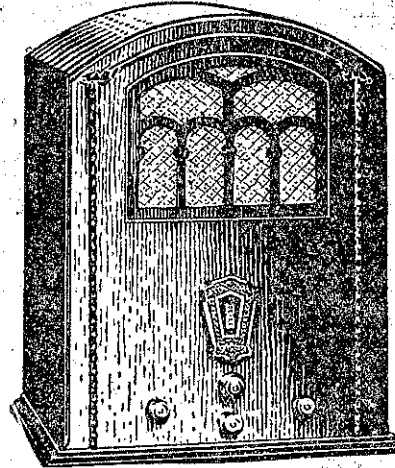
Brunswick Bldgs., 49 High Street, Auckland.

Hannaford Chambers, 145 Worcester Street, Christchurch.

*No other receiver at any price offers
so much as the*

SILVER MARSHALL

**8-VALVE SUPER-
HETERODYNE**



SILVER-MARSHALL "COMPACT"

The Silver-Marshall "Compact" Receiver houses an 8-valve midge type Superheterodyne chassis, complete with every feature you want to give unparalleled performance. A perfect miniature with all the tone and volume of a full-size cabinet model... eclipsing all former standards of Radio performance.

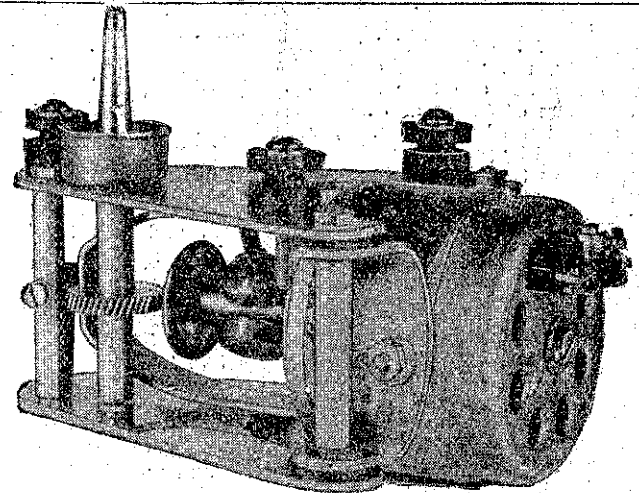
**A Thrill Awaits You When
You Hear the 1931 Silver-
Marshall.**

N.Z. Distributors:

FACTORY IMPORTS LTD.,

96 TORY STREET, WELLINGTON.

N.Z. Distributors for S.-M. Short-Wave Sets, Chassis and Parts—
THOS. BALLINGER & CO., LTD., VICTORIA STREET, WELLINGTON.
Write for Details of Available Dealer Territory.



"DUAL" Gramophone Motors

These are constructed on a new principle in which the armature windings are disposed on a very light drum, and, in effect, the windings only rotate. This avoids the usual procedure in which the heavy iron core carrying the windings also rotates.

Thus, "Dual" gramophone motors are particularly silent. Moreover, heavy starting currents are avoided because of the very low inertia of the moving parts and consequent rapid acceleration.

Complete with 12in. turntable, automatic switch and brake—and the price is right.

Standard
Telephones and Cables (Asia) Limited

Head Office: G.P.O. Box 638, Wellington.

Auckland: P.O. Box 1897.