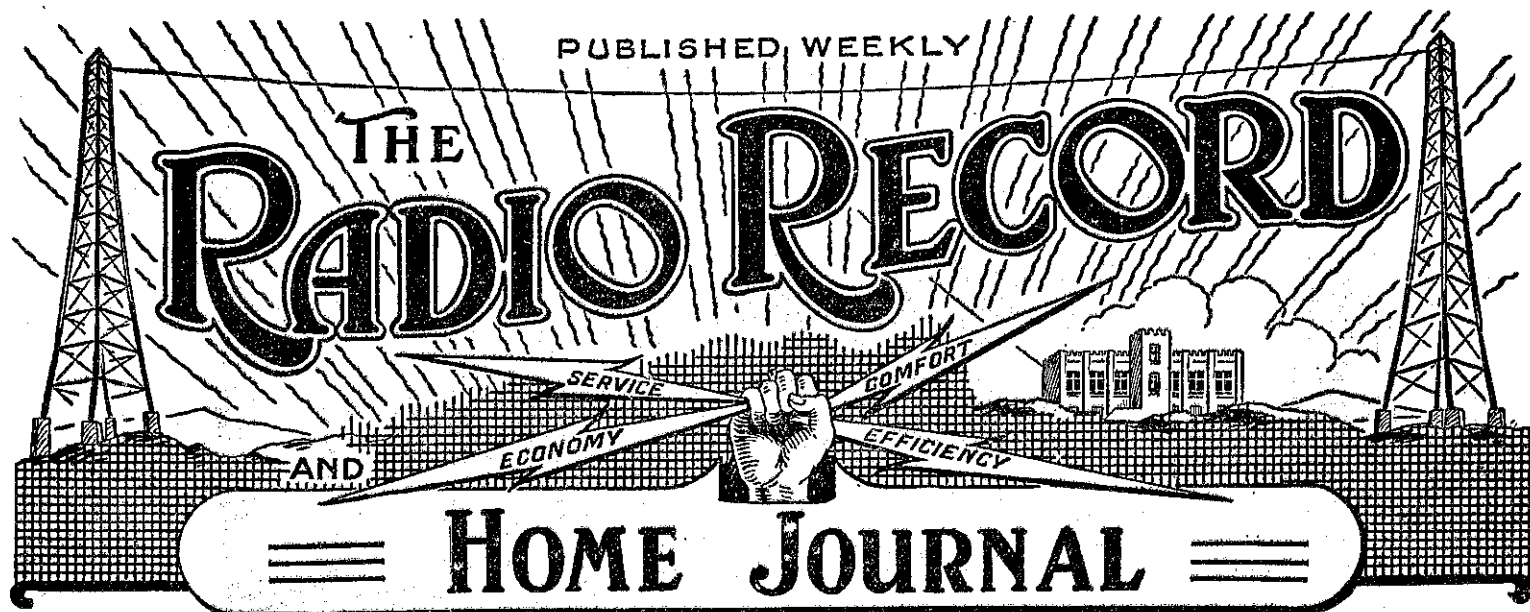


AUCKLAND EXHIBITION NUMBER

PUBLISHED WEEKLY

THE RADIO RECORD



AND
HOME JOURNAL

Vol. IV., No. 44.

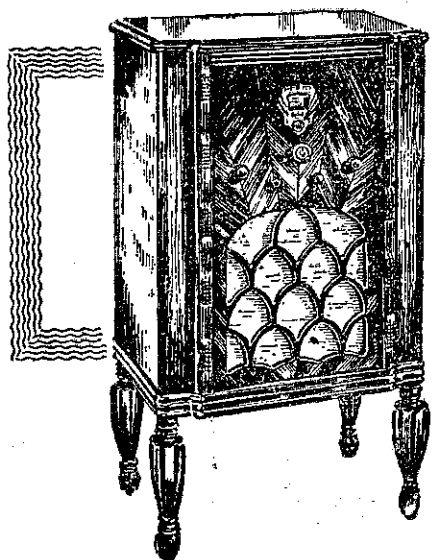
WELLINGTON, FRIDAY, MAY 15, 1931.

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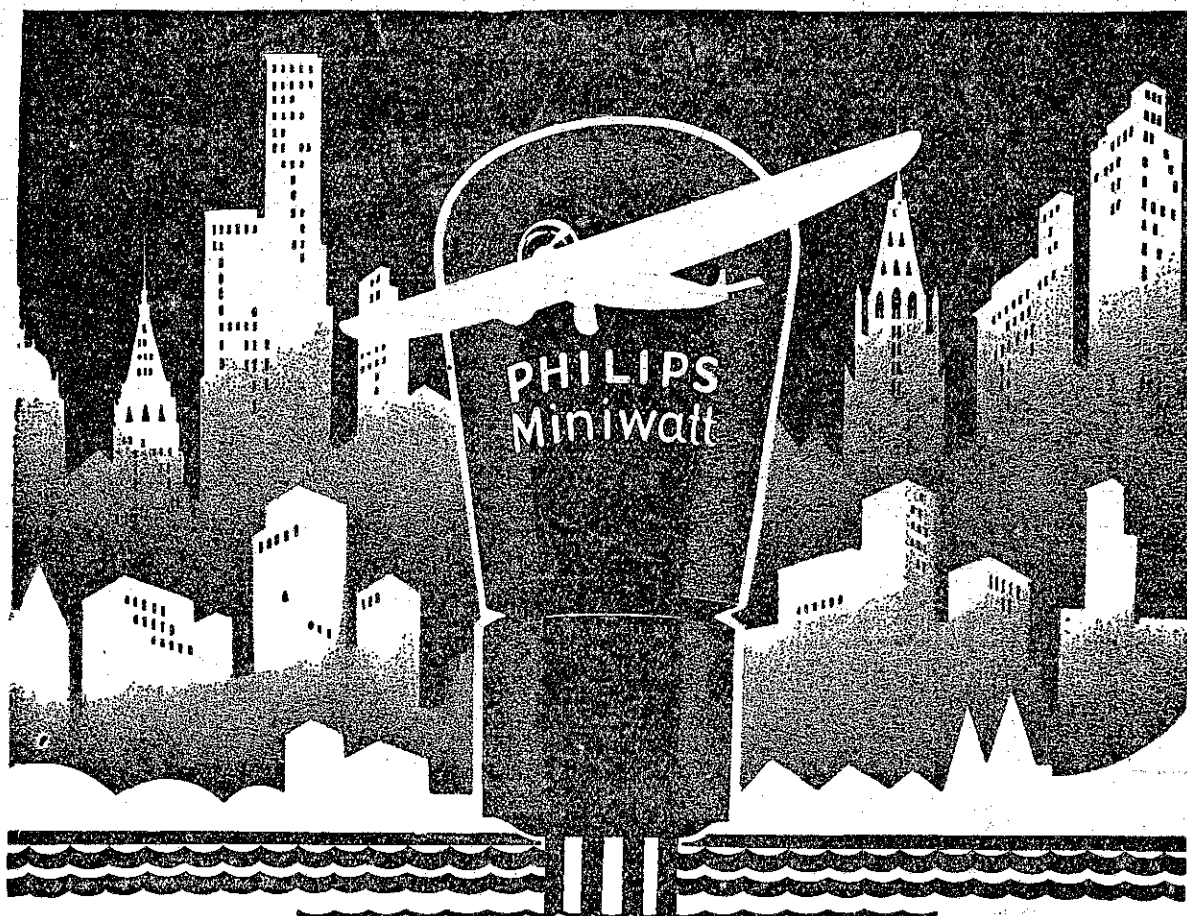
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Listening to Holland

On the afternoon of May 2, 2YA, with the co-operation of Mr. F. W. Sellens, conducted a rebroadcast of short-wave station PCJ, Holland, which was broadcasting a special programme for Australian and New Zealand listeners. This proved so successful that it has been decided that, conditions permitting, further rebroadcasts of this station will be carried out on Saturday afternoons. In view of this, the following article on station PCJ, Holland, should prove of decided interest to listeners.

THE International Short Wave Broadcasting Service maintained by the Philips radio station, PCJ, is prob-

ably known to every short wave listening enthusiast in New Zealand.

This unique experimental station, operating at Eindhoven, Holland, has been on the air on regular schedule since March, 1927. It dedicates programmes to practically every country in the world, being materially assisted in this respect by the linguistic abilities of Mr. E. Startz, the station announcer, who speaks fluently in Dutch, French, English, German, Spanish and Portuguese.

We have for some time been passing through an unfavourable period for long-distance short-wave reception, but within the past few months conditions have improved materially, and it would seem that we are still on the upward trend of the cycle.

We may now expect occasional Saturday afternoon rebroadcasts of PCJ by 2YA, and with this in view an endeavour is being made to have PCJ dedicate special programmes for New Zealand at this time.

A feature of special interest is the new antenna system of PCJ. The photograph below shows rather a maze of masts and wires. Three aerials are in regular use on the 31.28-metre wavelength.

- (a) An ordinary "broadcast" antenna having no intended directional effect. Broadly speaking, it radiates equally in all directions.
- (b) A new directional beam aerial radiating roughly east and west, pointing toward the Dutch East Indies on the eastern side and in a diametrically opposite direction on the west.
- (c) Also a beam aerial, directed to the south-west and north-east. It is intended principally to reach the South American countries.

The five-wire aerial supported by the lattice steel towers in the left background is a long-wave one and not used by PCJ.

It is of interest to study out on the terrestrial globe the effectiveness of these aerials as far as New Zealand is concerned.

Assuming aerial (b) to have the centre of its beam directed toward the centre of the Dutch East Indies group, and aerial (c) to radiate directly toward Dutch Guiana, we find that New Zealand is well in the beam in both cases. As we are quite close to the true antipodal position of PCJ, the travelled distance of the signal to the New Zealand aerial is very closely the same for each

aerial, and practically independent of which way round the signal travels.

In the case of aerial (c) the signal may, of course, reach us via South America, i.e., from the north-east or via Antarctica—south-west.

Similarly with aerial

(b) the signal may come by a western or an eastern route, and at different hours of the day one or other becomes definitely the favoured route owing to the different distribution of daylight-dark areas crossed.



Mr. E. Startz, the announcer of PCJ.

ALL keen short-wave listeners should obtain access to a terrestrial globe and learn how to "orient" it so that when placed in sunlight, the daylight and dark portions of the earth are accurately shown on the model globe as light and shadow.

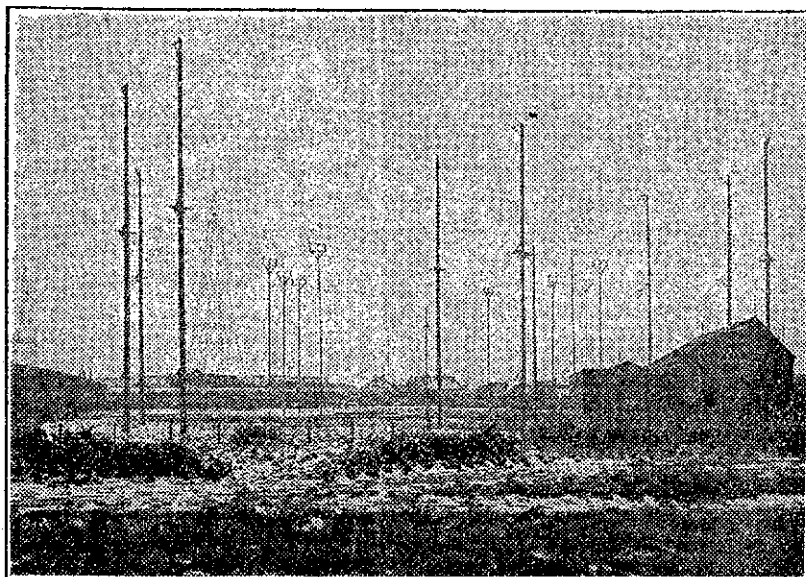
The regular transmission times of PCJ converted to New Zealand mean time are:—

Thursday .. 4.30 a.m. to 7.30 a.m.
Friday 1.30 a.m. to 5.30 a.m., and
9.30 a.m. to 1.30 p.m.

Saturday 5.30 a.m. to 7.30 a.m.
and
1.30 p.m. to 5.30 p.m.

New Zealand short-wave listeners will no doubt welcome the extension of PCJ's special transmissions to this part of the world, and help swell the PCJ collection of QSL cards—now reputed to be the largest in the world. Reports addressed to Philips Lamps (N.Z.), Limited, P.O. Box 1673, Wellington, will be forwarded on and all of these will be replied to with PCJ's QSL card.

It will be observed that these hours are coming in a part of the day when the programmes can be enjoyed. The Friday programmes will be a distinct improvement on the present schedule.



PCJ's transmitting aerial array.

1931 Radio Leadership

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All we ask is that you test and make **PERFORMANCE** the comparison between our **1931 MAJESTIC 8-VALVE Superheterodyne** selling for **£29/10/-** • and any other make irrespective of price • • You be the judge • • Any Majestic Dealer will supply the set on **FREE Demonstration** • and sell on **LOW Deposit and Easy Terms** •

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Operatic Concert from 2YA

On May 18, Signor Lucien Cesaroni and his operatic company will present, from 2YA, a number of selections from well-known operas. Below a brief reference to each selection is made, and in several instances the story of the opera leading up to the presentation of the item in question is given.

THE first item for presentation is "Within These Sacred Bowers," from "The Magic Flute," by Mozart. This number which is considered one of the greatest of bass arias, will be sung by Signor Cesaroni.

Then follows the celebrated trio from "I Lombardi" (The Lombards), by Verdi. This will be sung by Eunice Standen, Ray Trewern and Signor Cesaroni, accompanied by the Orchestrina, under the baton of Signor A. P. Truda. This will be the first occasion on which this beautiful trio has been broadcast from a New Zealand studio.

For the fullest appreciation of this work, one must know something of the story of the opera.

"Before the rising of the curtain, Pagano and Arvino, sons of Folco, the Lombard, have fallen in love with Viclinda. Pagano is a man of storms and passions, and his hatred is awakened when the girl prefers his younger brother and marries him. Pagano then attempts to kill Arvino, and, compelled to fly for his life, becomes leader of a gang of brigands.

"The opera begins in the square in front of the Cathedral Church of St. Ambrose at Antioch. Arvino has been elected a captain in the first Crusade against the Saracens. The seemingly repentant Pagano has returned and been forgiven, but the air is dark with suspicion, and justly; for with the aid of Pirro he again attacks Arvino and attempts to kidnap Viclinda. By mistake, however, he slays his father, Folco, and in despair he then flies to the wilderness.

"After many years we find Viclinda dead, and her daughter Giselda a captive of the Saracens. Giselda has been placed in the harem of a Saracen prince, Orontes, who loves her and whom she loves dearly. Orontes however, obeys his mother's command that they shall not marry until they both are of the same religion. Arvino, meanwhile, with a Crusaders' company, seeks a hermit who dwells in a cave above Antioch, hoping to learn from him the whereabouts of his daughter. The repentant Pirro, who aided Pagano in the attack on Arvino, is now in Antioch with the Saracens. Through him the mysterious Hermit contrives to have a gateway left open by night. The Crusaders enter the city and Arvino rescues his daughter.

"But Giselda, almost insane, believing Orontes dead, is so palpably distressed at sight of her father that he becomes greatly angered. Orontes, however, is not dead, and he soon comes to her at risk of his life. She flees with him, but he is wounded and the pair find refuge in the cave of the Hermit. Through



his influence, the dying Orontes becomes a Christian.

"Then Orontes begins the beautiful trio with a lovely flowing melody, and this is followed by the duet passages between Giselda and the priest, and later with her wounded lover. The terzetto grows more impassioned as it proceeds, the three voices combining into a splendid climax at the end.

"After the death of Orontes, the Hermit conveys Giselda to her father, and by his inspiration enables her to find happiness in the religious life. For this, both father and daughter are profoundly grateful. The Hermit takes a highly active part in the fighting against the Saracens, and is mortally wounded.

"ALMOST with his last breath he confesses to Arvino and Giselda that he is none other than Pagano. He dies forgiven by the brother whom he twice has tried to kill."

The next selection for presentation is the famous "Largo al Factotum" (Room for the Factotum) from Rossini's opera, "The Barber of Seville." The story leading up to this solo, which occurs toward the end of the first act, runs:

"The handsome and distinguished Count Almaviva is in love with Rosina, the ward of Dr. Bartolo, a mean and suspicious physician.

"Not wishing to have the glamour of his rank influence the girl, Count Almaviva has taken the name of Lindor, and as such, we find him serenading his lady-love. Not very

successfully, it must be admitted, for she pays no attention though the musicians wake the neighbourhood. He sings a lovely serenade, "Dawn With Her Rosy Mantle," but as it fails, he conceals himself to watch a newcomer who is vigorously making known his identity.

"It is Figaro, the factotum, the jack-of-all-trades, the debonair Barber of Seville—the same hero who figures again in Mozart's "The Marriage of Figaro." Figaro is thoroughly well satisfied with himself, and gives a list of his accomplishments in the famous "Largo al Factotum."

"It should be remembered that in the days of the perukes, powder and patches, the barber was not only "tonsorial artist," but also a dentist and surgeon who bled his customers as readily as he shaved them. Incidentally he was a privileged person, whose easy access to the homes of the distinguished made him a convenient instrument for plots and schemes of young lovers and old rouses."

The brilliant and loquacious "Largo al Factotum," sung at break-neck speed, is a severe test of the singer's art. The music is as merry and forceful as the words.

"Miserere," the ever-famous duet from "Il Trovatore," by Verdi, will next be sung to piano and organ accompaniment by Eunice Standen and Ray Trewern.

Quite apart from its dramatic significance, the music of this scene is extraordinarily impressive. The beautiful, sorrowful minor melody sung by Leonora, and the exquisite air by the answering Manrico, are combined and interwoven into the marvellously impressive ensemble which makes the scene perhaps the best-known and the best-beloved of all operatic situations.

THE concluding item is a bass solo, "Leporello's Humorous Ariette," from "Don Juan," the opera by Mozart. This will be sung by Signor Cesaroni, accompanied by the Orchestrina.

Leporello is soliloquising on his difficult occupation as servant to Don Juan, and he complains of "scanty fare and doubtful pay." Finally, in his dissatisfaction, he decides to become a gentleman himself and go courting like his master.

No sooner has he made this decision, however, than he hears his master's footsteps approaching, and his recently-formed resolve weakens a little. Don Juan appears in the doorway, and Leporello is so nervous he—well, listeners will be able to discover what happens themselves.

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WITH THE GOLDEN VOICE

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at WISEMAN'S STALL
AUCKLAND RADIO SHOW

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Broadcast Weather Reports

Their Meaning Explained

WE have received several requests lately for a published explanation of the significance of the letters used in the daily broadcast weather report. A comprehensive article by Dr. Kidson, Government Meteorologist, on the method of preparing such reports was published in the "Radio Record" dated November 30, 1930, and for the benefit of new readers a portion of this is reproduced below:—

"THE accompanying table is a portion of an extended weather report which is broadcast by 2YA during the 7 o'clock session. In the first column is given the direction of the wind, followed by its force reckoned on the Beaufort Scale. This, translated into velocity in miles per hour at 16 feet above ground is 0, calm, 0-1 m.p.h., 1, light air; 2-3, slight breeze, 4-7, 3, gentle breeze 8-11; 4, moderate breeze, 12-16; 5, fresh breeze, 17-21, 6, strong breeze 22-27; 7, high wind, 28-33; 8, gale, 34-40; 9, strong gale, 41-48; 10, whole gale, 49-56; 11, storm 57-65; 12, hurricane.

Station.	Wind.	P.	Tem.	W.
Patea	NW 5	29.81	58	P
Wanganui	W 5	29.82	61	BC
Foxton	W 8	—	57	Q
C. Campbell	NE 1	29.65	60	B
Westport	SW 4	29.75	52	BCP
Dunedin	NE 1	29.67	49	C
Bluff	N 1	29.54	40	OD
Alexandra	Not received.			
Puysegur Pt.	N 4	29.49	47	JP
Cape Maria	V.D.	W 4	30.04	70
Opotiki	SW 2	29.90	64	BC
Taupo	NW 2	—	54	O
East Cape	W 3	29.82	60	BC

The next column is the barometric pressure in inches of mercury while the temperature is degrees fahrenheit, or the ordinary temperature as we know it. The fourth column deals with the weather, and for this the following legend is used:—

"Weather.—B., blue sky; B.C., blue sky and detached clouds; C., cloudy; O., overcast; G., gloomy, dull. U., ugly, threatening; R., continuous or steady rain; S., snow; D., drizzle; P., passing showers; H., hail; Q., squally; L., lightning; T., thunder; F., fog; M., mist; Z., haze.

"A fifth column can be added, the matter for which is broadcast. This refers to sea conditions, such as calm, light swell, or rough, as the case may be. This, however, is quite evident, and needs no explanation. There is one point which sometimes confuses listeners, that is when the letter 'C' (denoting cloudy weather) is followed by particulars of the sea. Some listeners mistake the letter 'C' for the word 'sea.' There is no connection, and it is only by chance that the words come together."

Making Canaries Sing

If your canary loses its voice without apparent cause, turn on your loudspeaker in its vicinity, and before long it will regain its lost powers, states a French authority on these little songsters. Canaries are natural imitators, and if placed in juxtaposition to constant music show a marked improvement in song.

The Battery Problem

Current Supply to Filaments and Plates

by

S. T. WALLACE, C.T.O.



SO many questions continue to arise and repeat themselves concerning what might be termed the life blood of wireless receivers—the various batteries—that a general review of the problem may prove instructive.

When broadcasting first appeared on the horizon the valves then available required as much as 1 ampere at 6 volts for the lighting of the filament, while the high tension current was in the neighbourhood of 2 or 3 milliamperes at a voltage frequently as low as 24 volts.

The real problem in those days was filament current. The transport of the usual 6 volt 40 ampere-hour accumulator to a comparatively distant charging station was always the nightmare of reception. The high tension was considered no difficulty, it being easily supplied by connecting a group of flash lamp batteries, the only cheaply convenient method then available.

The first rumours of dull emitter valves were hailed with great joy and it was considered a wonderful achievement when the filament was reduced to .25 of an ampere even at £2 a time! But real satisfaction was not felt till the arrival of the .06 type, which could be operated with dry cells or primary batteries.

Now the pendulum has swung in the opposite direction. The "A" is thrown at us at every street corner and the "B" has become the real problem. Some may consider that all-electric operation is the ultimate solution to the difficulty, but for the present discussion this can be dismissed. It is a very long way off for the great majority and in many directions it has its own peculiar difficulties, evidenced even in progressively electric America, where battery-driven receivers are still very much to the fore.

Filament lighting is more or less established to well under half an ampere for most of the popular receivers.

Where charging facilities are available an accumulator best meets this requirement, but it is not the only means available. In isolated localities an alternative worth consideration is the large type of Sack Leclanche cell, which is capable of running the filaments of a three-valve receiver for nearly twelve months without any attention.

Accumulators.

ACCUMULATORS frequently prove a source of annoyance to their owners, due to improper usage by them or the charging station. They are best kept in condition by continual movement, electrically speaking, i.e., they should always be charging or being discharged. Any accumulator at rest is nursing trouble to some extent. A wireless receiver calls for intermittent use, which makes it particularly important that the accumulator be charged immediately it approaches a discharged condition. The best plan is to calculate the time it should last with the fullest use, allow a margin, and have it charged regularly at that period whether discharged or not.

Twenty actual ampere hours should be the minimum capacity of cell employed, because many charging stations

will not trouble to give the proper charging rate of half an ampere to the small cells, with the result that the positive plates are soon broken up and the old story comes up after a few months, "Your plates are worn out. May we renew them?" whereas they should last for seven years.

The prevalence of improper charging is well illustrated by the following true story. A lady took her accumulator to a charging station in South London

Most listeners are bound to their peculiar receiver. As the trend of the popular type is a three-valve instrument utilising a screened grid valve, the requirements are a constant "B" of at least 100 volts and capable of a 10 to 15 milliamp. discharge. With a screened grid valve it is imperative the voltage be maintained, otherwise it may become inoperative. Other valves can still make a show down to 60 volts, but

"Fortune Favours Fools"

A one-act comedy
to be produced

from 2YA

on

Tuesday

May 19

Arranged

and

produced

by Norman

Aitken



which for 30 years has been run by one of the greatest experts on storage cells. When it was handed to her after charging, she coldly asked, "Has this been done?" Much taken aback, the proprietor replied, "Certainly, why do you ask?" "It's quite cold!" exclaimed the lady. Further questioned, she vouchsafed the view that "at all the other places" where it had been charged it was "always nice and warm"! Accumulators should never indicate any very appreciable rise in temperature. It is a sure indication that damage is being done. Always insist that the maker's charging rate and instructions are adhered to.

The "B" Problem.

THE cheap and economical supply of high tension is becoming an increasingly difficult problem. In some quarters it is asserted that "quality" is unattainable with less than 500 volts at 50 milliamperes. There are just as many others who can readily demonstrate that 5 milliamperes at 100 volts can also do wonders.

not so the screened grid. This is the modern problem.

The ideal "B" is obtained from accumulators. They give constant voltage with no material internal resistance, and a perfectly silent background. It was a matter of some comment that the B.B.C. used this form of "B" at the Radio Exhibition, but they evidently wished to incur no risks and used the best thing available.

The principal advice one can give with regard to this form of battery is to avoid any temptation to use small cells. Let 5000 milliampere-hours be your standard or leave them alone. The difficulties of smaller cells are too numerous to detail here.

One firm in 1929 made a turnover of £250,000 in dry cells for "B" purposes, and there is no question this is the most widely used form of battery. The fact that a world-wide organisation like Messrs. Siemens have placarded the hoardings of England with their new form of "B" battery is sufficient evidence of its importance. The containing zinc vessel of this new battery con-

sists of a one-piece stamping—a remarkable advance on the old soldered containers, which gave rise to so much local action and reduced the life of the battery.

Dry cell "B" batteries should be of adequate capacity for the work they are called upon to do, otherwise the voltage will fall and the internal resistance rise too quickly. Some measurements made on 60-volt "B" units show an internal resistance of 10 ohms when new, rising to as much as 100 ohms when the voltage has dropped 45 volts.

The other point is to ascertain if the battery is comparatively new when purchased. Dry cells commence to deteriorate immediately after manufacture. A shop voltmeter test is no guide whatever to the condition of an H.T. battery. It may drop to 20 volts the very next day. If you cannot trust your dealer send direct to the makers for your battery.

A very interesting fact not generally known is that a dry cell battery in use at its normal economical discharge rate will fall comparatively steadily in voltage from week to week. If the same battery is left and not utilised at all the time will come when its voltage also will drop, but it will not do so gradually. The fall takes place with remarkable suddenness.

This fact is of vital importance where grid bias batteries are concerned. The failure of these may ruin both "B" batteries and valve. After six months it is useless to rely on a voltage test for their condition. Change them. If they must be nursed longer, test them on a heavy load, such as a flash lamp bulb, for several seconds. The writer has known a grid bias battery to give a full voltage reading one day and to fail the next day to move the voltmeter needles, despite the fact that no current had been taken from it.

Many alternative sources of "B" have been attempted and actually marketed, but with doubtful success—at least from the point of view of economy and efficiency.

All centre on obtaining the "B" from the "A" battery, which, of course, would be the ideal method. It is rather annoying to know that the actual power required for the "B" is only equivalent to another half-ampere taken from your accumulator.

These other sources of "B" include motor generators run from the "A" accumulator; voltage transformers operated by make-and-break contacts and subsequently rectified by a valve; "B" accumulators with paralleling switch for charging from L.T.

The expense and a certain amount of worry rule these things out for most people, but they are interesting for those with plenty of money and time on their hands.

There is occasional talk of cold valves. They are not urgently required. The infinitely more pressing problem is the abolition of the need for high voltages.

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The New Zealand Radio Record

—AND—

Home Journal

(Incorporating the "Canterbury Radio Journal.")

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Published Weekly. Price 3d. Subscription Post Free in advance, 12s. 6d. per annum; booked, 15s.

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, MAY 15, 1930.

FORWARD MOVE IN RADIO.

THE announcement made last week that the service from 2YA would be augmented by a 50 per cent. increase in the hours of operation makes the most important forward move in radio made in New Zealand of recent years. With this increase the service may be said to be attaining a full standard of operation. Thanks to its power, 2YA has a daylight range over the Dominion, so that the extension will be effective for purposes of demonstration on the higher-powered sets right throughout the Dominion. Many new features will be incorporated in the programmes to cover the longer hours. Efforts in particular will be made to interest the housewife who, ensconced in her home through the mornings and afternoons, is in the best position to benefit by the longer hours of operation.

WHILE it is satisfactory that the Radio Broadcasting Company now finds itself able to undertake this expansion of hours, we would have been glad to have been able to record a more important move on the part of the Government, i.e., a move calculated to permit the Broadcasting Company to embark upon its plan, promulgated some two and a half years ago, for the development of effective relay stations in the main provincial centres. It is understandable that the Government in the present state of politics will not be in a hurry to take any aggressive stand in this field. At the same time we feel confident that a bold, constructive policy, aiming at the development of radio on a unified basis throughout the Dominion, would be popular. We discussed some weeks ago the advisability of decision being reached in this matter. The present economic position has its bearing upon the radio situation in two ways. First, it makes it inadvisable for the Government to contemplate the expenditure itself of the money necessary to undertake Government control. In the second place, the very fact of times being hard is acting as a stimulus to the use of radio, for, while people are staying more at home, they are turning to radio for their necessary entertainment and amusement. Radio, therefore, is enjoying what may almost be described as a boom.

That applies particularly in the cities, where dealers are as active as they have been at any time in the past five years, and also in portions of the country suitably situated. That activity could most effectively be carried into the main provincial centres by adoption of the comprehensive scheme of relay stations now pigeon-holed. Once that scheme is put into action, then radio expansion will be intensified and accelerated. Glad as we are, therefore, to record the expansion in hours now made by 2YA, we still look forward for the day when an even more important development can be inaugurated. It is only when that day comes that radio will be made available over the fullest possible area of the Dominion. From one angle the present times are not opportune for that expansion. From another angle, that of supplying the definite need of the people, the time never was more opportune.

Brilliant Soloist for Exhibition

Margherita Zelanda,
Soprano

THE Broadcasting Company, which has arranged the entertainment portion of the Auckland Radio Exhibition, has secured an outstanding attraction in Margherita Zelanda, coloratura soprano, of Dunedin. This brilliant artiste has been engaged for three of the exhibition concerts.

Margherita Zelanda recently made her radio debut at 4YA, when, from her very large repertoire, she presented songs ranging from operatic solos to charming ballads, with a degree of artistry which marked her as a vocalist of exceptional gifts and training. Her high testimonials proved to have been amply justified.

Margherita Zelanda (perhaps better known in New Zealand as Miss Daisy Hall) has been popularly designated "New Zealand's Song Bird." She recently returned from Italy, where at Palermo and Milan she pursued and completed her studies under eminent maestros. Professors Benedetto, Morasco and Manlio Bavagnoli. Born near Dunedin, she received her early musical education in the Dunedin Convent and appeared on the platform in concert work at the early age of seven. She won championships at the age of 12, a few years later going to Sydney to the Conservatorium of Music, studying with Madame Slapoffski.

Zelanda is gifted with a natural, pure, golden coloratura voice. On the advice of Italian artists who were visiting Sydney during her sojourn at the Conservatorium she went to Italy. Prior to her departure for Italy she was soloiste for the New South Wales State Orchestra. Zelanda is also an accomplished pianiste, harpiste and violiniste.

The Auckland Show "Radio Record" Stand

AT the "Radio Record's" stand in the Auckland Radio Exhibition there will be displayed "Radio Records," "Radio Guides," "All Electrics," DX Clocks, DX Notepaper, etc. Also on view will be the "Radio Record" DX Cup, the first winner of which was Mr. S. Ellis, of Okato, Taranaki. The Associate Editor, Mr. Colin Smith, will be present part of the time to meet radio enthusiasts, particularly any regular correspondents who happen to be at the show.

Rugby Broadcasts Banned

THE question of the effect of broadcasting of Rugby matches on the gate returns of matches in the country (districts) was considered at a meeting of the Manawatu Rugby District Council held on May 6.

The council decided to request the Wellington union to give serious consideration to the adverse effect on the gates by the broadcasting of matches played in the cities before coming to a decision in regard to the matter of allowing matches to be broadcast this year.

Broadcast Jottings

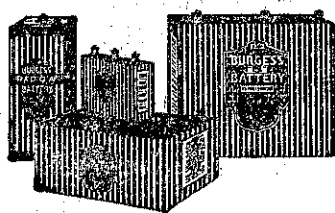
ON Thursday, May 28, a concert is to be relayed from Wanganui. It is to be given by the Wanganui Garrison Band.

MR. SYDNEY FRANCIS HOBEN, well known to 3YA listeners for his piano recitals, is now resident in Wellington as a teacher of music. He is music master at St. Patrick's College, Silverstream. Mr. Hoben will broadcast from 2YA on Tuesday, May 10.

W.E.A. Lecturettes from 2YA

THE following schedule of W.E.A. lectures has been arranged from 2YA:—

- Saturday, May 30: Professor C. A. Cotton Professor of Geology, Victoria University College. A W.E.A. lecturette: "Causes of Earthquakes."
- Saturday, June 13: Mr. Christopher Perkins. A W.E.A. lecturette: "The Museum of the Future."
- Saturday, June 27: Mr. G. W. von Zedlitz, M.A. A W. E. A. lecturette: "Language and Education."
- Saturday, July 11: Mr. A. D. McIntosh, M.A. A W.E.A. lecturette: "Tariffs and World Affairs."
- Saturday, July 25: Mr. Quentin Pope. A W.E.A. lecturette: "The Future of New Zealand."
- Saturday, August 8: Mr. A. E. Campbell, M.A., Lecturer in Education, Victoria University College. A W.E.A. lecturette: "Make-believe in Childhood."
- Saturday, August 22: Mr. R. J. Waghorn, M.A., Lecturer, Teachers' Training College. A W.E.A. lecturette: "The Origin of the Solar System."



**BURGESS
RADIO
BATTERIES**

Royal Air Mail From London

Broadcast Description of Arrival

ON April 29, at 10.50 a.m., the first All-the-way-by-Air Royal Mail reached Sydney after a thrilling journey from London, in which the machine carrying the mail crashed at Koepang. The crew, fortunately, were unhurt, and the mail was saved. Air-Commodore Kingsford Smith, in his trusty plane, Southern Cross, flew from Sydney to Koepang to collect the mail, which, although a few days later than the scheduled time of arrival, was still many days ahead of the ordinary mail shipped from overseas at the same time.

The Australian Broadcasting Company, through both New South Wales stations, 2FC and 2BL, broadcast the description of the arrival of the air mail at Mascot, and thus listeners were given an opportunity of participating in the ceremony of the landing of the first Royal Mail aeroplane in Sydney, and the speeding to Melbourne ten minutes later of the Southern Star, under Pilot Mollison, with the air mail for Victoria, South Australia and West Australia.

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.

Auckland Radio Exhibition

Town Hall, May 20 to 23

FROM May 20 to 23, inclusive, the second Auckland Radio Exhibition will be held in the Concert Chamber of the Auckland Town Hall. It will be open to the public on May 20 at 7.30 p.m., and will then continue from 10 a.m. until 10.30 p.m. each day. In all there will be 13 exhibitors who have been allotted stands as under:—

Stall.	Stall.
No. 1.—Lewis Eady, Ltd.	No. 8.—Philips Lamps (N.Z.), Ltd.
No. 2.—Frank Wiseman, Ltd.	No. 9.—Cuff & Thompson.
No. 3.—Caddells, Ltd.	No. 10.—Cuff & Thompson.
No. 4.—Abel, Smeeton, Ltd.	No. 11.—New Zealand A.R.T.
No. 5.—Farmers' Trading Co.	No. 12a.—"New Zealand Radio."
No. 6.—Spedding, Ltd.	No. 12b.—"Radio Record."
No. 7.—Johns, Ltd.	

Each exhibitor will be displaying the most recent models of sets, but components and other apparatus of interest to the set-builder will also be on show. There will also be several novelty exhibits which alone should prove most interesting.

The stage will be a model studio and from here the programmes will be broadcast in full view of the audience, and those who have not yet seen a broadcast take place will be able to do so. Special programmes have been arranged, and when not broadcasting from the studio these will be picked up by the receivers shown. Due to the locality and other factors, demonstrations on stations other than 1YA are not allowed. However, radio dealers will be only too pleased to arrange private demonstrations to suit interested visitors.

Elsewhere in this issue will be found descriptions of sets and other radio apparatus that will be on the New Zealand market during the coming year and a great deal of this will be on exhibition in Auckland.

Polar Submarine

In Touch by Radio

SHORTWAVE radio communication was established last week by Amalgamated Wireless from Sydney with Sir Hubert Wilkins's submarine Nautilus in New York harbour. The Nautilus is being equipped for an attempt to reach the North Pole by travelling under the ice. A number of messages were exchanged between A.W.A. and Sir Hubert Wilkins, who asked that greetings be conveyed to his friends in Australia and New Zealand, also that the Press of both countries be informed that he is in communication, and that messages for him and his party may be lodged at the A.W.A. traffic offices, or at any post office in the Commonwealth or Dominion.

The Art of Listening

YES, it is an art! Have any of you heard that kind hostess who has asked in a few friends to hear the wireless?

She starts an interesting conversation with one of her guests to the detriment of the others' listening powers; then when a good joke comes out of the set she says "What does he say?" The host glares impatiently, and one of the guests in politeness repeats the joke and while doing so all the others lose the rest of the joke.

Yes, I say there is an art in listening.

KILL THIS MAN!



BRITON—MAKER OF MEN

"SECRETS OF MUSCULAR STRENGTH"—is FREE

50,000 People have Read this Amazing Book

Have you sent for your copy? If you have never read another book in your life before, this is the one book you NEED! This book will open the door to a glorious new life for you, as it has for so many others—a happier, healthier, more successful life—a longer life. For a while you may have a copy FREE! If you value your manhood, and I'm sure you do, you will rip off that coupon and send it to me NOW!

ALFRED J. BRITON
 Dept R.R., 107 PITT ST., SYDNEY, N.S.W.

THERE'S a devil inside of you. He's trying to kill you. Look out for him! He tells you not to work so hard. What's the use? The boss only piles more work on you. He tells you not to bother with your body. Do you recognise him? Of course you do. He's in us all. He's a murderer of ambition. He's a liar and a fool. **KILL HIM!** If you don't, he will kill you!

SAVED!

THANK your lucky stars you have another man inside of you. He's the human dynamo. He fills you full of kick and ambition. He keeps you alive—on fire. He urges you on in your daily tasks. He makes you strive for bigger and better things to do. He makes you crave for life and strength. He teaches you that the weak fall by the wayside, but the STRONG SUCCEED. He shows you that exercise builds live tissue—live tissue is muscle—muscle means strength—strength is power. Power brings success! That's what you want, and, gosh darn your old hide, you're going to get it!

WHICH MAN WILL IT BE?

IT'S up to you. Set your own future. You want to be the Human Dynamo? Fine! Well, let's get busy. That's where I come in. That's my job. Here's what I'll do for you. In just 30 days I'll increase your arm one full inch with real, live, animated muscle. Yes, and I'll add two inches to your chest in the same time. Pretty good, eh? That's nothing. Now come the works. I'll build up your shoulders. I'll deepen your chest. I'll strengthen your whole body. I'll give you arms and legs like pillars. I'll literally pack muscle up your stomach and down your back. Meanwhile I'll work on those inner muscles surrounding your vital organs. You'll feel the thrill of life shooting up your old backbone and throughout your entire system. You'll feel so full of life you'll shout to the world, "I'm a man and I can prove it." Sounds good, what? But, listen! That isn't all. I'm not just promising these things. I guarantee them! It's a sure bet.

TO EVERY MAN—IT'S FREE

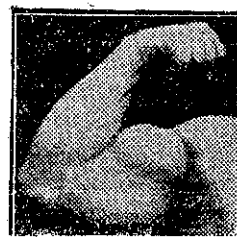
I HAVE made the greatest and most amazing discoveries about muscle-building that YOU ever heard of. I have learned that STRENGTH and sex are connected! This story is in a brand-new book full of pictures—and for a little while you can have that book FREE! If you want the body and strength of an athlete—and I know you do—shoot that coupon along NOW! If you want to load your frame with roll upon roll of smooth, easy-moving, rippling muscles—mail the coupon NOW! If you want the speedy strength and lightning agility, the quick-moving grace and crushing power of a Tiger—print your name on that coupon before you are three minutes older.

RIIP THIS OUT AND MAIL NOW!

IT
IS
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ALFRED J. BRITON,
 Dept R.R., 107 Pitt St., Sydney, N.S.W.
 Dear Sir.—Please send me, absolutely FREE and without any obligation on my part whatsoever, a copy of your latest book, "The Secrets of Muscular Strength—and How to Acquire It." I enclose 2d. in stamps to help postage.

Name
 Full Address
 (Please Write or Print Very Plainly)



15/4/31

Two Colonial Leaders

that are making Radio History!

"Colonial" is, and always will be, an exclusive radio. It has features no other set has, or can have. It is backed by one of the wealthiest and most distinguished corporations in the radio industry. It is the most completely perfect radio ever produced. Yet with all its complete individuality, amazing performance and super quality of construction, "Colonial" now costs no more than an ordinary radio. No wonder these two "Colonial" models are meeting with such amazing success.

COLONIAL RADIO

"RADIO'S CLEAREST VOICE"

The New Colonial "COMPACT"

The "Colonial Compact" is a standard set built into a small space.

Full size 9-inch dynamic speaker.

245 valves in push-pull.

50 per cent. oversize transformer.

Performance that will equal any standard set on the market—excepting only the "Colonial" 33 A.C.

Beautiful walnut cabinet with Tarso inlay, every part exactly identical in quality with those in its larger brother, the Model 33 A.C.—Tone, power, distance, selectivity, such as you have previously heard only in the best of the standard sized sets.

And its price is only

£29/10/0

See it to-day at your local agent's. Its superb beauty, its amazing perfection of tone, its sensational performance, will win your instant admiration.

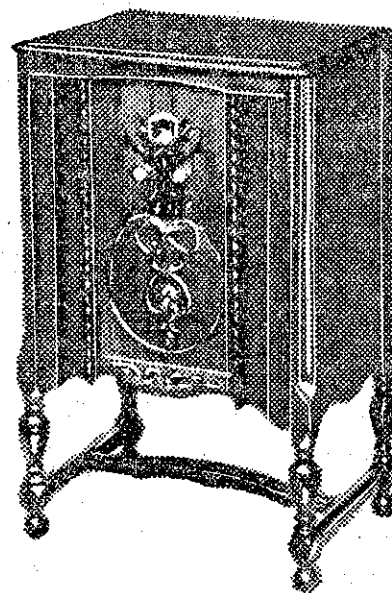


Dr. Fulton Cutting, chairman of the Board of Directors of the Colonial Radio Corporation, guiding genius of Colonial's engineering destinies.

Distributors

Auckland: Briscoe & Co., Ltd.,
Customs St. E., Auckland.
Taranaki: Newton King, Ltd.,
New Plymouth and branches.
Wellington: N. R. Cunningham,
Ltd., P.O. Box 147, Masterton.
Canterbury: Briscoe & Co., Ltd.,
Christchurch.
Otago: Briscoe & Co., Ltd., Dunedin.
Southland: Briscoe & Co., Ltd.,
Invercargill.

In design, construction and performance, Colonial Radio is completely different from anything you have yet heard. It embodies exclusively the patents and inventions of Dr. Fulton Cutting, D.Sc., M.A., Fellow Inst. R.E., an engineering genius, a prominent musician and director of the New York Opera Company. **PURER TONE, GREATER SENSITIVITY, BETTER SELECTIVITY**—all with lower valve replacement costs than with any comparable set on the market.



"COLONIAL" PRINCESS CONSOLE
COMPLETE **£55**

(Inland price slightly higher).
With this great radio at such an amazingly reasonable price, is it any wonder that the tremendous Colonial plants are operating on 24-hour production at peak capacity when practically every other manufacturer can operate on 70 per cent. time only?

MAKE NO MISTAKE!—YOU WILL WISH YOU HAD BOUGHT "COLONIAL"
HEAR IT NOW BEFORE YOU DECIDE.

Factory Representatives:

N. R. CUNNINGHAM LTD.

P.O. BOX 147, MASTERTON

THIS YEAR'S RADIO

Majestic



A Review of the Radio Receivers and Equipment that will be available in N.Z. during the Coming Season

sees the introduction of some new, and up-to-date component.

Pilot market two receivers in this country, the Consolette and the Midget. The Consolette is a small set 33in. high, housed in a Queen Anne Cabinet. It is provided with tone and volume controls, the latter operating on the screen-grid valve and tuning knob. Six valves are employed, three 224 type, one 227 type, and one 245 type and, of course, the rectifier. All these are Pilot's own manufacture.

The Midget is only 17in. high, but uses the same chassis and loudspeaker as the Consolette, with all the same features, including tone control.

Gulbransen

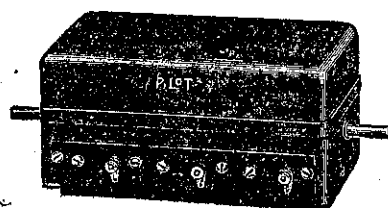


THIS season's Majestics incorporate many features hitherto not generally seen in New Zealand. The introduction of automatic volume control minimises fading and keeps volume at a constant level, while a still finer degree of selectivity has been introduced without sacrifice to tone. "Multi-Mu" s.g. valves are used in the new set and eliminate much background noise, cross talk, modulation distortion and valve hiss. They are equipped with uniform calibration full vision dials, so that tuning can be made easier. A double knob just below this includes the tuning knob and a larger disc which is the volume setter. An acoustic control, to regulate bass and treble and at the same time cut out a fair proportion of static, is also included. All the new sets are super-heterodyne.

Model 21, although it looks a midget, has the power of the full set. It is admirably constructed and capable of getting really good results. It is equipped with a standard 8-valve chassis.

Model 61 incorporates all the new features and uses a 9-valve super-heterodyne circuit. Gramophone combinations are also available. The Auckland agents are Lewis Eadie, Ltd.

Pilot Products

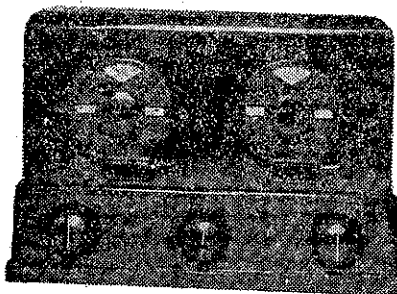


PILOT radio parts need no introduction—their name is legion among radio constructors. Every few weeks

to be moved from room to room, and serves as an end table when drawn alongside an armchair. It embodies all the features found in the larger models. The circuit is the same as the Champion Lowboy, and the size in no way means cramping of parts.

The Auckland representatives are: Caddells Ltd., Queen's Arcade, Queens Street, Auckland, and R. W. Strong Ltd., Queen Street, Auckland.

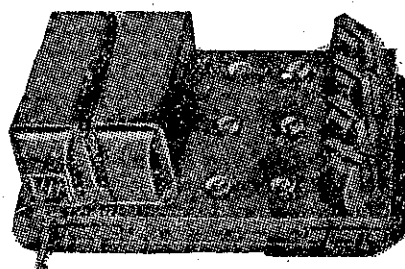
Add-a-Phone



THE Add-a-phone is not a shortwave adapter, although it may be used as such, for it may be used in a separate set or coupled to either a.c. or d.c. receiver. It is a remarkable set developed after years of intensive study of shortwaves. In view of its being shielded in metal it can be used in cities where interference is bad, while tuning dials of the direct drive type and alternatively 300-1 ratio, insure smooth control with no backlash. It will oscillate below 20 metres with .8 volts on the filaments of the 230 types of valves.

The Add-a-phone can be connected to a set and the phones kept on at the same time. It is an all New Zealand product, and nowhere is there a set even remotely resembling the Add-a-phone.

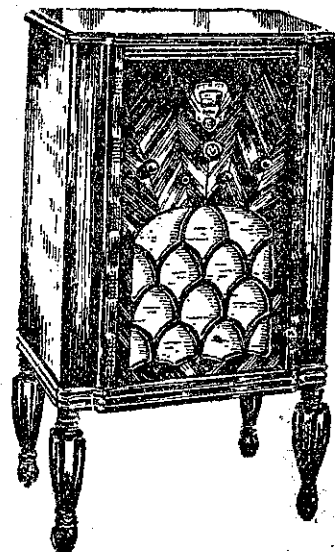
Pam Amplifiers



PROBABLY the best known amplifiers in America to-day are the Pam, and these have already made their appearance

in New Zealand. This year the New Zealand agents, Messrs. J. A. Smythe and Co., of Wellington, are importing the new and improved amplifiers. Greater compactness, improved appearance, less weight, longer life and lower hum voltages are some of the features claimed for this new series. Uniform amplification has resulted in a new brilliance of tone. There are three models, 29, 39 and 59. The 59 is the smallest, and delivers an undistorted output of just over 4½ watts. It has two stages of screen-grid, one 250 and one 281. The largest is the 29, as before with two stages of screen-grid, but this time 224's, followed by four 250's in push-pull and four 428's. This amplifier has an undistorted output of 18.6 watts, with an average gain of 65 decimals over the entire scale. The net weight of this huge amplifier is only 60lb. It is complete with line voltage, compensating plug and fuse. Pam amplifiers are to be found in many of the big ballrooms, and on many of the beaches, sports and showgrounds in America.

Radiola



THIS season Amalgamated Wireless are featuring the new Fisk Series Radiola 45E. This is an all-British receiver, the products of the A.W.A. factory in Australia.

The circuit employs three screen-grid tuned stages, a screen-grid power detector, and a 245 output stage. The tuning control is calibrated in metres for quick and precise station location. The volume control varies the screen-grid voltage, while the set is provided with a local and distant switch.

The voltage regulator, to enable the transformer to be adjusted to suit the main, is a safeguard on valves and condensers. The chassis is provided with a gramophone and loud-speaker jacks and 240-volt outlet socket for supplying current to the gramophone motor, a distinctive and altogether new innovation. A

Radio-phone change-over switch is provided at the front of the cabinet.

The set stands 37in. high, and the cabinet is specially constructed of well-finished walnut in deep brown. In the Auckland district the receiver is handled by the Farmers' Trading Co.

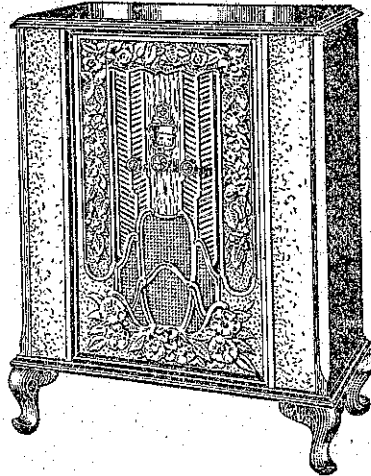
Ultimate Radio

FOR years the pioneers of Ultimate radio were convinced of the value of radio through their experience in supplying light houses with short wave radio equipment. In the second year of production about 100 receivers were sold in New Zealand. The third year brought a definite realisation to the radio prospect that short wave reception had been

established as a means of entertainment and amusement, with the result that about 500 receivers were sold. This year has demonstrated the fact that short wave reception is no longer a freak, and that it is as easy to receive the stations on the other side of the world as it is to tune in the nearer broadcast stations. The new Ultimates are a.c. operated and give speaker reception of these sta-

tions; furthermore, it is a British product. It appears that one of the features of the 1931 sets will be the ability to receive short wave transmission from the most distant portions of the globe. The latest Ultimates are being shown at the Auckland exhibition by the Farmers' Trading Co. stands, who will be pleased to demonstrate or give further particulars.

Crosley



CROSLY has come forward with several new models. Worthy of note are the new cabinets which employ Crosley repwood, a new and exclusive material which enables the employment of new methods of construction and

greatly improves the acoustic properties of the cabinet.

The Crosley Widget incorporates three screen-grid valves and the usual tuning and tone control arrangements. It is only 12½ inches high. The Buddy-boy is the larger model, being 15½ inches high, and employs a new, highly efficient circuit, utilising three stages of screen-grid. It is equipped with an all in-built aerial and ground systems of flexible material not much thicker than a visiting card. This is fitted into the top of the set—an entirely new and different development in radio which is exclusive to Crosley. It eliminates the aerial and ground in bringing in the local station.

The Crosley Classmate is a still larger set using two screen-grid valves. The Director is the largest set of the series, and it incorporates automatic volume control. It uses 7 valves in all, two screen-grid in the radio frequency, screen grid detector, 227 as first audio, and two 245's in pushpull, with a 280 rectifier. The North Island agents are Abel Smeeton, Ltd., Auckland, and the South Island agents are Messrs L. B. Scott, Ltd., Christchurch.

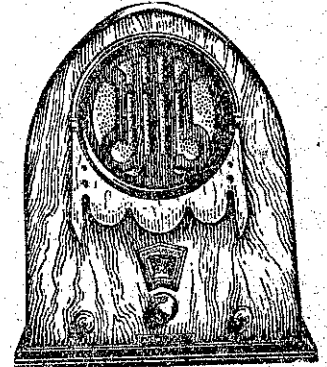
Standard Telephones and Cables

AN important phase in the activities of Standard Telephones and Cables is undoubtedly the provision of radio telephone and telegraphic links for connecting the telephones and telegraphic systems of different countries. Equipment consisting of 200 k.w. longwave transmitters and 60 k.w. shortwave transmitters, through which the King,

in London, was able to talk with the Prince of Wales in Santiago, was manufactured by S.T.C.

Another 20 kilowatts shortwave equipment at Rugby is used for commercial radio and telephone service. Other standard radio transmitters are in operation or in the course of erection at Madrid, Buenos Aires, Bogota, Lima, Rio de Janeiro, Santiago, and Canary Islands. Radio telephone broadcast equipments are used in Sweden, Italy, Denmark, Poland, Spain, Finland, Czechoslovakia, Switzerland, Japan, China, South Africa, Australia and New Zealand.

Lyratone



THE Lyratone is a product of Gilfillan Brothers, one of the pioneers of American radio. It is a midget receiver that has already become firmly established on the New Zealand market. The features of the set are a Lansing dynamic

Have YOU Heard Rome Direct on Your Receiver?

---Not Unless it is an Ultimate!

Not only Rome—but England, Russia, Siberia, Holland, America, Germany, and all the leading Short-Wave Stations of the world are within your easy reach with the amazing new "Ultimate."

"ULTIMATE"

All-Wave World Receiver

The set that gives astounding short-wave reception from every part of the world—in addition to receiving all the usual Broadcast Stations. Why buy a yesterday's radio when you can own the "Ultimate," which is a year ahead of every other receiver. With its outstanding performance, tremendous volume, and perfect clarity and purity of tone, it gives you the real fascination and enjoyment of radio entertainment.

There is an Ultimate Distributor in every part of New Zealand. Arrange with your local agent for a demonstration TO-DAY, or write for Free Illustrated Literature.

Distributors for Auckland:

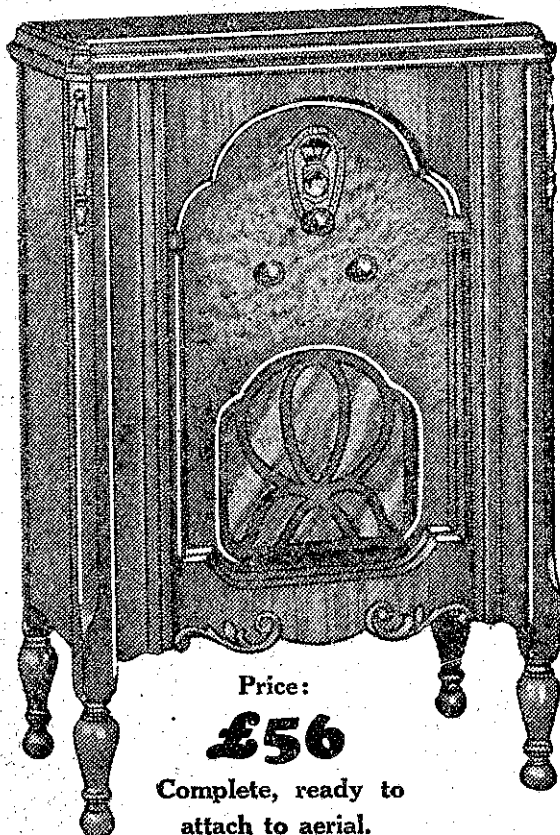
FARMERS' TRADING CO.,
LIMITED
HOBSON STREET.

Factory Representative:

C.P.O. BOX 1778, AUCKLAND.

When you're at the
**AUCKLAND
RADIO
EXHIBITION**

examine every chassis on show, then compare them all with the "Ultimate"—the greatest receiver of all time—in the Farmers' Trading Co., Ltd.'s Stand—No. 5.



Price:

£56

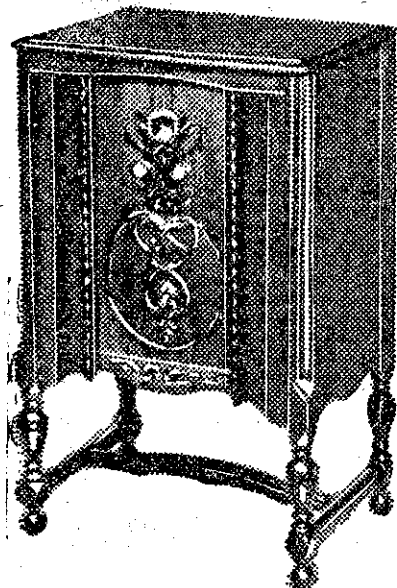
Complete, ready to
attach to aerial.

speaker, four screen-grid a.c. valves, one 227 and one 245, with a 280 rectifier, four tuned circuits for selectivity, tone control, compact—it is only 22 pounds, and stands 14 inches, and requires no aerial on the local stations. Although small, it loses nothing when results are to be obtained.

The Lyratone combination is also a midget, for it is only 19 inches in height and 15 inches wide. It is a five-valve set utilising three screen stages. The gramophone, which is made accessible by removing the top of the set, is of the induction type, and is provided with a volume control and automatic stop.

The "Bantam" midget set will also be introduced this season by Messrs Crawford and Finlayson, who are handling the Lyratone. This is a superheterodyne 7-valve set utilising three screen-grid valves, two 227 type and one 245 type valve. It is a wonderful companion with a wonderful range.

Colonial



THE Colonial Princess is a full-size console model, employing three screen-grid valves with a double pre-selector circuit in front of the first. The over-all sensitivity of the set is better than 5 micro-volts per metre on antenna height. When recently testing this set with an improvised aerial it brought in several American stations at good volume. As far as selectivity is concerned it is claimed that it will eliminate 2FC and 4QG, Brisbane, when operated quite close to 2YA, and when near 1YA, 2BL and JOAK can be brought in. The volume control operates on a new principle, which makes for distortionless reproduction; even when throttling a powerful local tone is faithfully maintained. Maximum sensitivity over the whole scale is obtained by an arrangement which automatically increases the coupling as the dial is turned towards lower frequencies. Tremendous volume can be handled without showing any signs of distress, due to the provision of an exceptionally powerful speaker. Pick-up terminals are also incorporated, and a change-over from radio to gramophone is accomplished by turning the dial to phono position.

The Colonial Compact is a smaller set, 16 inches high, employing two stages of screen-grid radio frequency, and screen grid detector. All the vital parts

are made 50 per cent. over size, to ensure long life with trouble-free operation. The set also employs a four position tone control.

The new models arriving shortly will include a radio gramophone combination which, though equal in all respects to the present model, will be not nearly so large as the standard combinations.

Clarion Radio

FOR many years, the Transformer Corporation, of America, supplied manufactured materials for many of



America's leading firms, and when last year they decided to enter the receiver field they carried forward the good name they had earned in component manufacture. Their huge plant and experience enabled them to produce everything

that goes to make up a radio receiver at a very low cost. And it must not be imagined that by making a set for a low sum the product was a cheap one; essentially it is not, for they have gained a position among the leaders of radio in the States. This season will see many of the new innovations incorporated in Clarion sets, the product of the Transformer Corporation. They will be displayed at the Auckland exhibition.

The Silver Ghost Speaker

THE Silver Ghost is a new Farrand inductor dynamic speaker. This type of speaker, which became very popular last year, works upon a different principle from the ordinary type in that it requires no field current and has two magnets arranged somewhat similarly to the ordinary cone instead of the pot of the dynamic speaker. The armature moves parallel to the face of the magnets, not perpendicular to them, as in the case of the cone speaker.

The Silver Ghost is provided with a special terminal panel at the back, by which the impedances can be matched to any valve or valves in push-pull. If an anode current of more than 20 amps. flows, however, a special output transformer should be used. The Silver Ghost is obtainable either as a unit to be placed behind the baffle or in one of several different styles of attractive cabinets. The New Zealand agents are Messrs. L. M. Silver and Co.

Ferranti

IN England, Ferranti products are recognised as standard by all constructors, and this reputation is gradually extending to world-wide dimensions. One notices that even American experimenters are beginning to use Ferranti components.

This year new products will be sold in New Zealand, among these being two new transformers, a.f. 6 and a.f. 8. The a.f. 6 is very similar in appearance to the well known a.f. 5, but it has a core 50 per cent. larger and, notwithstanding the ratio is 7-1, the inductance is sufficiently high to maintain the good quality reproduction. The curve of this transformer is similar to that of a.f. 3, but it gives double the amplification of that transformer. It has been designed for



ARCTURUS TRAIL BLAZER of the RADIO INDUSTRY

Has won its leadership in the industry by consistently pioneering new valve developments.

- Standard Base A.C. Valve.
- Isolated Cathode Valve.
- A.C. Long-Life Valve.
- Quick-Heating Detector.
- A.C. Screen-Grid Valve.

And Now--

the pioneers of the new Variable-Mu and Pentode Valves, adopted by America's leading manufacturers.

Six times in three years Arcturus has been the FIRST to blaze the trail with these new and important contributions in Radio Valve Design.

Each time the radio industry has followed the trail blazed by Arcturus; each Arcturus development has accurately forecast the trend of radio progress; each new Arcturus contribution quickened the public acceptance of radio.

When next purchasing your A.C. or Battery Valves—Demand ARCTURUS the 'Quick Action' Blue Long-Life Valves.

STOCKED BY ALL GOOD RADIO DEALERS!

Factory Representatives:

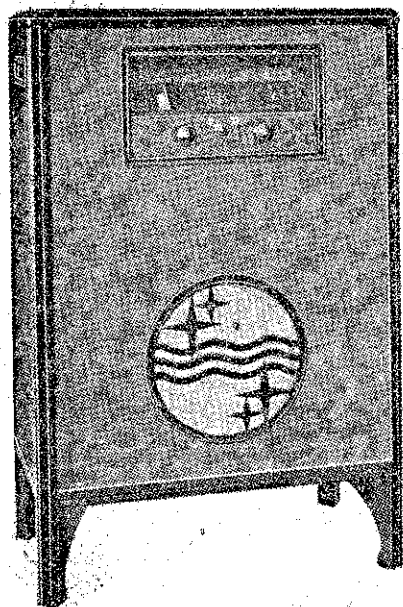
Radio Ltd., Commerce Building, Anzac Avenue, Auckland.

"THE VALVE WITH THE LIFE-LIKE TONE."

use in receivers using grid leak detector, and only one audio frequency stage. The preceding valve should have an impedance not greater than 10,000 ohms, and the anode current should not exceed 6 mamps. It is thus admirably suitable for single valve amplifiers.

AF. 8 has been designed to meet the need of those who require good results at a very low price. It has a ratio of 34-1, and an amplification curve which goes below 50 cycles and above 8000. The new choke, B5, will be sold this year. Designed for use in power packs passing heavy current, it will take 160 m/as, and with this current has an inductance of six henries. At 40 m/as the inductance rises to 9. The d.c. resistance is only 40 ohms.

Philips Radio



THE "star" receiver of the Philips display at the Auckland Radio Show will be their new model 2601, recently landed in New Zealand. It possesses several unique features.

The cabinet, which is built of an attractive brown mottled bakelite, stands about 2 feet 6 inches high, and is of the Lowboy type. The controls, which are mounted on a sloping recessed panel, are four in number, and comprise a combination gramophone and on-off switch, volume control, tone control, and a single tuning control. The circuit, in the main, is identical with that of the popular Radio-player, and uses two stages of screened-grid radio frequency, linear power detector, with a pentode in the final stage.

Incorporated in this receiver is a new type of dynamic speaker—a permanent magnet speaker—recently developed in England. Though no field coil is used, it is as sensitive and will give as great an output as the ordinary dynamic, with the advantage that no hum or power scratches are present. Provision is also made for the attachment of an extra speaker.

The two open-work metal doors at the rear of the cabinet are fitted with gate switches, which automatically cut off the power when the doors are opened. Thus all danger of shock is eliminated.

Three aerial tappings are provided, two of them for use with a frame aerial. The primary of the power transformer is fitted with five tappings, ranging from

111 volts to 240 volts a.c., thus enabling the receiver to be operated on any power between these extremes. Pick-up terminals are also provided, and the volume obtainable is more than adequate for the average room.

The tone of this receiver, both on radio and on record reproduction, is unusually crisp and natural.

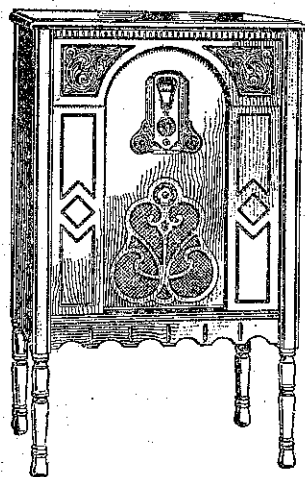
Lissen Limited

ENGLISH radio parts are gaining great popularity on the New Zealand market, and constructors will be interested to note that Lissen Limited are bringing out a wide range of new and interesting parts.

Airline

A SET new to the New Zealand market, but one which is very well known in America, is the Airline. A wide range of models, which will suit one's own requirements and match the furnishings of the home, will be made available to the New Zealand public during the coming season. A feature of the Airline service is that the New Zealand Express Co., who are the New Zealand distributors, have engaged a staff of servicing experts, who will always be at the call of Airline users. Not only do the New Zealand Express Co. market an excellent line, but they see that the product "stays sold." Airline is manufactured by one of the largest radio organisations in America.

Stewart Warner



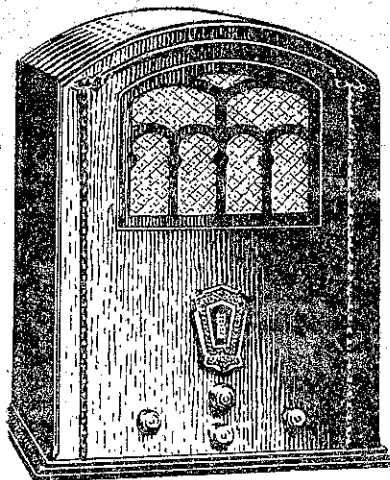
PROMINENT among this season's Stewart Warner receivers is the "Avon" console, a seven-valve all-electric model of particularly pleasing design. The cabinet stands 3 feet 4 inches in height, and is built of American walnut, tastefully carved.

The set employs three stages of screened-grid radio frequency, power detector, and one stage of audio, feeding into an improved push-pull stage. For the purpose of local reception, an aerial has been built into the cabinet, while, for increased sensitivity on long-distance reception, an antenna compensator to adjust the tuned circuits to the aerial used, has been included.

Another attractive feature of the "Avon" is the provision made for attaching either a dynamic or a magnetic type speaker, or both, without extra attachments of any kind. Thus extra speaker leads for magnetic speakers may be run into other rooms without the difficulty of incorporating a special transformer.

Pick-up terminals are provided, and in addition provision has been made for using this receiver for the reception of television when it appears.

Silver Marshall Radio

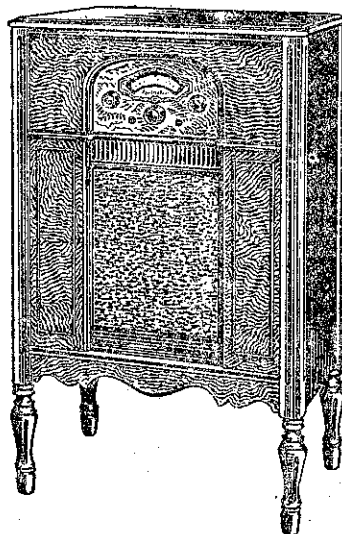


SILVER MARSHALL have produced two compact super-heterodynes, and these will be on the New Zealand market during the 1931 season. The Cadet is a smaller set than the usual console, and is housed in an attractive cabinet, while the Compact uses the same chassis but the cabinet is very much reduced until it has become a large midget.

Although small in size there is no skimping, for these sets are designed to maintain the good name of Silver radio. Both employ a pre-selector circuit, followed by a 227 as first detector. There are three stages of screen-grid intermediate frequency with a 227 power detector feeding through a transformer into push-pull 245's.

A high degree of selectivity has been obtained, and the sets each give 10 kilocycle selectivity often against 50 kilowatt stations within a few miles of the receiver. The sets are provided with tonic control, volume control and local and distant switches. Provision is made for a magnetic speaker or telephones.

Atwater-Kent



INTERESTING new models to suit a variety of tastes will be featured by Atwater-Kent this season. There is a new beauty in the design, a richer finish. The speaker opening will be cur-

tained with a special, unobtrusive new tone fabric. New and advanced engineering has been applied, and new heights of performance have been obtained. The new sets have greater range and even sharper selectivity. Due to a remarkable compensating mechanism, all stations are widely separated; there is no crowding or jamming. The wanted station can be picked out quickly and easily on the quick vision dial, which has been for twelve months a feature of Atwater-Kent radio. All station markings are in full view from any angle, and the figures in kilocycles are large and legible and are fully enumerated for instant reading.

The speaker is new and enlarged, possessing a richer tone, while the tone control gives four definite shadings from bass to treble. The gramophone combination 75P incorporates the latest valves and affords remarkable fidelity of reproduction. In addition to the a.c. sets, the Atwater-Kent Golden Voice models are available for districts where direct current is used and also where current is not available at all.

They are still making up-to-date battery models.

Columbia

COLUMBIA batteries have established a wide reputation with dependability the world over, and their new product, the Air Cell, should be well received this season. Last week we had a very complete article on the new battery, and, just in passing, we might add that already it is being widely used. The new Air Cell has a two-volt battery which works on an entirely new principle, being specially designed to work with the new American 231 type valve, although it can be used with the ordinary 2-volts valve. The outstanding feature of the Air Cell is that no control device is necessary to regulate the "A" battery voltage. It is absolutely constant over a long period.

Osram American Type Valves

THE British General Electric Co. are marketing this season a new series of American type a.c. valves. These are exact replicas of the familiar American types, and can replace them in any socket. The "Radio Record" laboratory has had a set of these for test and has found them equal in all respects to the standard valve.

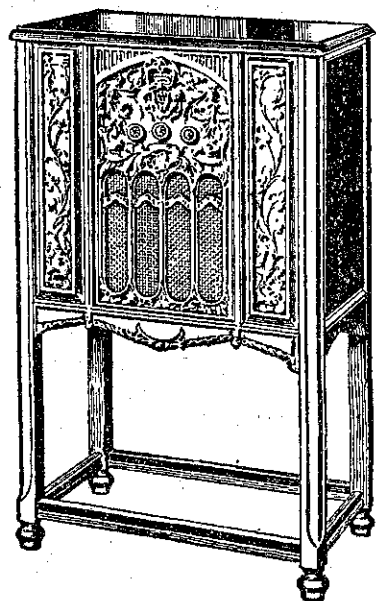
We have used them in super-heterodyne, ordinary T.R.F. sets in all stages, in shortwave sets and in Loftin-White amplifiers. In every case their performance left nothing to be desired. A point in their favour is that the time required for the heating of the cathode of the indirectly heated valves has been cut down to a minimum. These valves are faster than in any others we have tested, taking only 10 to 15 seconds to reach an operating state. The types that we have seen are 227, 224, 245, and 280.

It is indeed gratifying to note that English firms are manufacturing valves that can be employed in receivers used in New Zealand.

Arcturus

ARCTURUS valves are manufactured in all the commonly used American types, and are conspicuous by the blue colouration of the glass. It is interesting to note that the Arcturus Radio Tube Company claim to be the trail blazers of the radio valve industry on account of their being the first to produce standard base a.c. valves, isolated (Continued on page 14.)

New, Easy Terms for the New 1931 ~~CROSLEY~~ Receivers



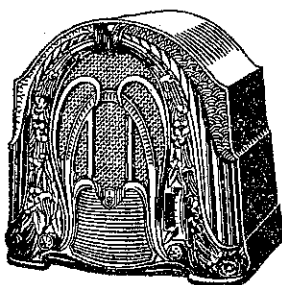
THE CROSLEY "CLASSMATE."
Five Valves, with three Screen-grid, and the newly developed Crosley Dynamic Speaker. New beauty, originality, and powerful performance at the remarkably low cash price of **£37**

TERMS: £5 DEPOSIT and
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New Beauty; New Startling Performance—and now, NEW EASY TERMS—make the 1931 CROSLEYS greater radio value than ever. A small deposit and exceptionally easy weekly payments will bring any one of the magnificent models illustrated into your home, ready to lead you into a new and delightful era of thrilling radio performance.

THE CROSLEY "WIGIT."
12½in. high, 11½in. wide, 9½in. deep.
Three Screen-grid Valves and Electro Dynamic Speaker. Mershon Condenser Power Pack. Undoubtedly the finest radio value on the market at
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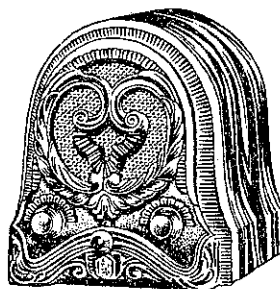
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THE CROSLEY "BUDDY BOY."
15½in. high, 17in. wide, 9½in. deep.
Offers everything you could desire. Five Valves, with Three Screen-grid. Latest Crosley Dynamic Speaker.

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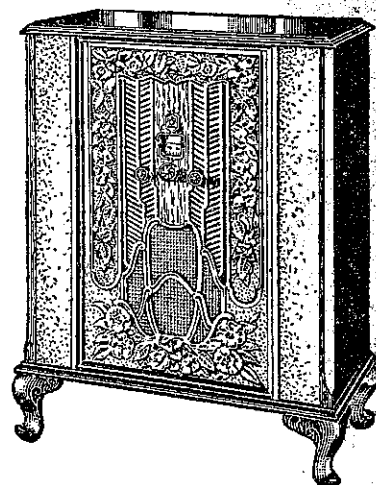
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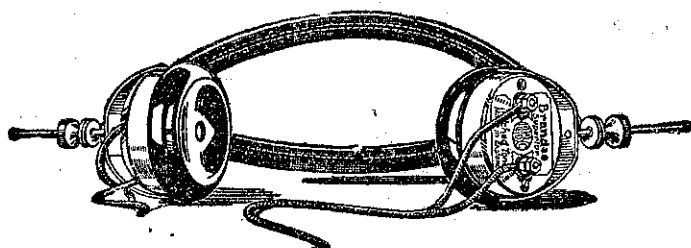
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Brandes

The Name to know in Radio



Made in England
Price 15/-

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SILVER-MARSHALL RADIO M EXTRAORDINARY

These complete console receivers are now available. The receivers employ the most modern features in radio design, incorporating:—

FOUR SCREEN GRID BAND PASS
SELECTOR, DYNAMIC SPEAKER,
BUILT-IN AERIAL, FREE FROM
"HUM."

Official S.M. franchised dealers for Wellington City

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37 LOWER CUBA STREET.

MADE LIKE A WATCH . . .

MADE IN ENGLAND

that's why!

What precision! It's evident to anyone who examines one of the new Osram 2.5 Valves that their construction is out of the ordinary. What reception when you put them in your set. Not the slightest trace of microphonic noise — only pure, clear tones from the highest to the lowest registers.

The complete range of Osram Valves, including the following 2.5 Volt Series, is available at your radio dealers — MY 224, MY 227, MX 245, MX 280.

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ac
Valves

Made in England

Advertisement of the
BRITISH GENERAL ELECTRIC CO. LTD.

37 Taranaki Street, Wellington. 145 Worcester Street,
Christchurch, and Brunswick Bldg., High Street, Auckland.

MY 227 is a recently developed Detector or first-stage Audio Valve, with indirectly heated Cathode for A.C. Sets. Non-microphonic.

cathode valves, a.c. long life valves quick heating 277 (it takes only seven seconds for them to come into operation) and the a.c. screen-grid valve. The latest valves, variable mu, and pentodes, are, too, now being manufactured by Arcturus. Arcturus valves can be seen in many of the sets in the exhibition, notably the Clarion, Atwater Kent, and the Philco.

Philips

SEVERAL new type valves have been recently added to the Philips range lately. The first, E442S, is a screened grid valve, differing chiefly from the E442 in that it has an appreciably lower impedance. It is excellent for use in radio-frequency stages, and may also be used with advantage as a detector or first audio valve.



The next, the E406, has been on the New Zealand market for some months, but is worthy of mention because of its phenomenal characteristics. It has a slope, and an amplification factor, of 6, and at a bias of only 24 volts will deliver 2 watts undistorted output. It is an ideal low impedance valve for a single stage.

The F443 is a new 500-volt pentode, which with a negative bias of 30 volts draws 45 in A. Its undistorted output is 10 watts. A new power valve, the C606, is the equivalent of the Osram P625. Among an up-to-date range of Philips transmitting valves recently landed are two, a 5 and a 10-watt type, which have already proved very popular among amateur transmitters.

Mullard

A WIDE range of Mullard valves is produced by the Mullard factories in England. The range now available

New Harlie
Gramophone Pick-up
with Parallel Tracking.



Reproduces Clear, Lifelike
Speech and Music.
Moderately Priced.

South Island Agents:—
ROYDS-HOWARD CO.,
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includes not only the improved version of the familiar Mullard types, but complete ranges of American replacement series and 4-volt a.c. valves. Some of these latter valves incorporate the newest ideas developed in British laboratories on valve manufacture. There is a wide range of rectifying valves for high voltage rectification and several pentodes available in 2, 4 and 6 volts. New power pentodes will be available this season.

Radiotron Valves

PROMINENT among the latest Radiotron receiving valves recently landed in New Zealand by Amalgamated Wireless, A'sia, Ltd., is a new series of 2-volt valves—the 230, 231 and 232. These are very economical on both "A" and "B" battery current, give long service, and are altogether a new development.

The 230 is a general-purpose valve suitable for use as detector, intermediate audio frequency amplifier, or radio-frequency amplifier.



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PASTILLES
for
COUGHS and COLDS

The 231 is an output valve designed for use as a last stage audio amplifier. It draws 13 amp. filament current and, with a negative grid bias of 22.5 volts, 8 m.amps. plate current. It has an amplification factor of 3.5, and delivers 170 milliwatts undistorted power output.

The 232 is a screen-grid valve suitable for use as a radio frequency amplifier, detector, or intermediate audio-frequency amplifier, though it is recommended particularly for use as an r.f. stage valve. Its filament current is rated as .06 amp. and total "B" current is approximately 2 m.amps. It possesses an amplification factor of 440.

Though designed primarily for operation in conjunction with the new Air Cell "A" battery, all these valves may be operated from dry cells, but a filament voltmeter should be constantly used, for if the voltage rating is exceeded the lives of the valves will be shortened.

A Radiotron valve which has become very popular with constructors during the short period it has been on the market is the 221, a six-volt valve which, like the new series mentioned above, is exceedingly light on both plate and filament current. It is thus quite suitable for operation from dry cells as well as from storage batteries. It functions equally well as a detector and an amplifier—both radio and audio. Constructors will be pleased to learn that the price of this valve has been reduced from 20/- to 13/6.

Kolster Brandes Speaker

WE have received from International Radio a Kolster Brandes Speaker, and have just completed a test when used with a Loftin-White Amplifier. The speaker is of the permanent magnetic type, using a matching transformer, the inductance of which can be varied to suit the amplifier employed. In our amplifier we found the best results were obtained when the ratio was 23-1.

As far as sensitivity was concerned, it was equal to the average cone speaker. It would just respond when coupled with a good crystal set, connected up with a big aerial. It would handle sufficient volume for the average home without any trace of distortion. We would estimate that the undistorted output would be approximately two watts.

Upon testing it with the recording of various instruments we found that the speaking and singing voices left little to be desired. The orchestra came through well, whilst instruments in the extremes, such as the trombone and the piccolo,

could be picked out. The range which gave best results was that extending from about 200 up to 4000 cycles. There was a marked falling off after 100.

Book Review

"The Principles of Radio Communication"—by Moorecroft.

FOR those who wish to gain a real understanding of radio communication there are few books better than Moorecroft's "Principles." It is a book which starts with the fundamental laws of electricity, explaining the full nature of electricity, electrons and magnetic fields. It introduces calculus by easy stages, so that the student may obtain a thorough grounding in the subject.

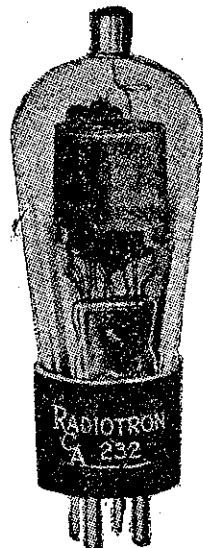
The book then takes its reader through such topics as resistance, in-

ductance, capacity and shielding, the laws of oscillating circuits, the elements of radio communication, spark telephony, valves, c.w. telephony, radio telephony, aeriels and radio and amplifiers. It is well illustrated with diagrams and charts, and is complete with a very large number of tables. Indeed there is hardly a page that in some way does not carry an illustration. Some are photographs and depict even electric current. The book is one that can be thoroughly recommended for anyone who wishes to take radio past the hobby stage.

The publishers are John Wiley and Sons, and the price is 40/6. Our review copy was sent by the Te Aro Book Depot, Wellington.

The 1931 "Radio Guide" is now available.

Price 2/6. All Booksellers and Dealers. (See advertisement on back cover.)



RADIO

MANUFACTURED BY ONE OF THE LARGEST RADIO ORGANISATIONS OF AMERICA.

A SUPER QUALITY PRODUCT

A Model to Suit Your Own Requirements and Match the Furnishings in Your Home

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Our decision to distribute AIRLINE is due to remarkable results obtained over a long period.

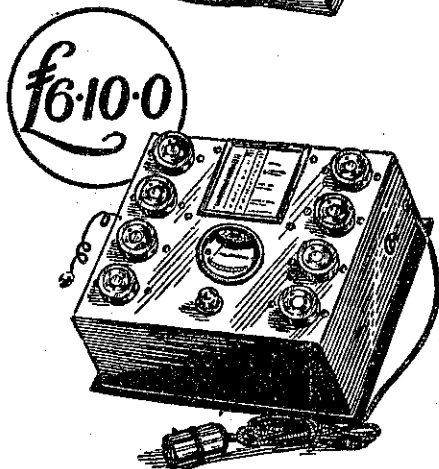
For Selectivity, Sensitivity and Natural Tone these Receivers stand alone.

Experts have been engaged and complete servicing is assured.

WE WILL BE PLEASED TO DEMONSTRATE IN YOUR OWN HOME

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Radio Dealer
needs this
SET
TESTER

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VALVE
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(Takes all makes)

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COURTENAY PLACE, WELLINGTON.

AS the talk by Mr. Lloyd Ross, M.A., LL.B., "The Dream of Stockholm," from 4YA developed on Tuesday evening I could not but be made aware of two things: Firstly, the totally inadequate voice of the speaker in giving his subject matter and, secondly, the inappropriate title. His voice put me in mind of a copy of one of Turner's more vivid and daring sunsets done in water colours. Moreover, Mr. Ross was obviously much more impressed by the essential practicability of Stockholm and its residents than by any dreaminess latent therein. And yet the speaker's voice, so neutral, quiet and shy, would have fitted a verbal picture of Venice, as a spinnet fits the gavotte. But as the spinnet with its dainty delicacy is out of place in Wagnerian Opera, so was his voice in dealing with twentieth century Stockholm. And the title, the dream of Venice, Vienna, Madrid, Rome and even London, if you like, but not of New York, Berlin, Melbourne or Stockholm.

Apart from the inadequacy of his voice, which was, as I say, too soft and neutral, Mr. Ross was also much too hurried and indefinite in his delivery. Sentences ran into each other like the inconsequential rippling of a brook. Many of the excellent points of his speech were lost accordingly. I liked the description of this essentially modern Utopian city even if I found fault with the mode of its portrayal. And I congratulate the speaker on his very apt reference to the probable pleasure Ruskin would derive, were it possible for that master mind to revisit this earth and see so many of his advanced ideas actually practised in Stockholm.

The speaker conveyed the impression that perhaps of all the cities of the earth, Stockholm alone fully justifies the hopes and ideals which have theoretically

endorsed the advance of civilisation to the present era. In her conservation of sunlight and air—Nature's most precious gifts to mankind—Stockholm obviously sets an example which many of our much younger cities would do well to note and follow. Her cool acceptance of the artistic, and the natural manner in which the inhabitants accept such as part and parcel of their everyday life, compared with the modern practice of hoarding such treasures away from the popular gaze where they can do most good, seems both eminently sensible and refreshing. Here, apparently, the illusive theory of Ideal Socialism finds easy and practical application. Already am I persuaded from Mr. Ross's talk to visit Stockholm whenever possible opportunity presents itself. Had his delivery been improved, who knows but that I might have sought particulars of naturalisation and bought a Swedish grammar?

I WAS perhaps more interested in the somewhat novel method of introduc-

ing the talk from 3YA on "What is this Sunlight League?" than in the actual subject matter of the talk itself. For it took the form of a dialogue between a Christchurch man and his family doctor. Certainly the worthy doctor had not only to be an enthusiast on his subject, but had also to have a knowledge which would withstand the onslaughts of a very keen cross-examination. The doctor was particularly good; I thought his client a little too stiff and self-conscious. The subject matter itself was quite in-

well brought home was the extreme short-sightedness of some of our hospital boards, in frequently retaining tubercular and other kindred cases in city wards, rather than taking the bolder step of establishing more and greater sanatoriums on the life-giving slopes of our wonderful Southern Alps and similar salubrious spots. The cities, particularly Christchurch, are cursed with the ever-present smoke and fog trouble. These two malignant allies will effectively prevent any permanent cures being effected in the city hospitals; so that looking at the question from the angle of cold economics and from the point of view of the ratepayers' pocket, even if from no more humane motive, it would seem more businesslike to go for the more permanent cure possible in the right localities, of which New Zealand has a plenty. The doctor deserves every support in his great campaign.

IN whatever else he may be at fault, Mr. Norman Kerr certainly cannot fairly be accused of lack of enthusiasm for his subject. I have written elsewhere of the inadequacy of some voices for some subjects. Now what sort of a voice is desirable for a talk on "Physical Culture"? Perhaps it was mainly inability to solve the problem to my own satisfaction which caused me to tune-in on Wednesday to 1YA. If so my idle speculation was time well spent because I thoroughly enjoyed this talk. I am no enthusiast for "On the arms bend, keeping the trunk rigid," but I do love a true devotee, be his subject what you will. And if Mr. Kerr does not believe all he tells us, then he is able to deceive, not only me, but Michael himself—a difficult art.

He fairly breathed cold baths, early morning exercises, fresh air and that particular feeling which popular advertisement has made familiar. Congratulations to Mr. Kerr. Were I anything but a confirmed sluggard, and were the mornings just a little more propitious, I should be doing my daily dozen as well. He has made it so abundantly clear that the whole thing is only a matter of will-power and saying sufficiently often (and with the requisite genuineness) "Tomorrow morning I WILL —" that I simply dare not try it.

I AM sorry that my reception of Mr. Richmond's talk from 1YA was too poor to enable me to give a fair criticism. The subject, "Civilisation in America," certainly held possibilities of which, from what I could hear, the speaker was well aware. It seems slightly unfair to pass judgment on the delivery in view of the foregoing but, even allowing for my poor reception, it was still obvious that Mr. Richmond suffered from nerves. As a result considerable hesitancy in manner, coupled with too many "ers" and "ums"—to be followed by rather breathless rushes of speech—was apparent. The speaker undoubtedly possesses a good radio voice, and I hope that the next time he is scheduled to appear my set will be feeling in a kinder mood, and Mr. Richmond more at home before the microphone.

THE more I listen to these talks arranged by the New Zealand Manufacturers' Association, the more am I amazed at the wealth of real interest

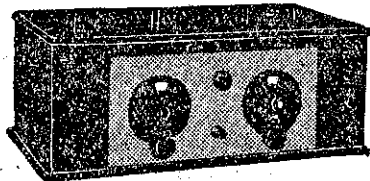
The VOICE of MICHAEL By "CRITIC"



MR. NORMAN KERR,
whose talks on "Physical Culture"
from 1YA are always appreciated by
listeners—"Michael" included.
—S. P. Andrew, photo.



YOU Can Build this Magnificent Receiver in a Few Hours!



Price of Kit, with full
instructions and diagrams for construction,

£6

Or complete with
Speaker, Valves, and
Batteries (no cabinet
or aerial)—

£13/12/-

Purchase a Lissen Screen-Grid Three Kit Set from your nearest radio dealer, and in two or three hours you can build a receiver that anyone would be proud to own.

It costs so little, and is so easy to assemble, yet its results will give you reception to rival ANY set. New Zealand, Australia, and Japan can be received with wonderful strength and volume on the loud speaker.

See your radio dealer to-day, and get full particulars. If you have any difficulty write to the

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LISSEN SCREEN-GRID THREE

triguing; in fact I foresee the necessity for our Christchurch medico to remain strictly incognito; if the general public heed his words carefully. For, not only shall we be immune from all the little ills to which the human body is at present subject, but, as time goes on, and always provided there is sufficient sunlight, from the bigger ills as well.

Not being either doctor, pharmacist, or vendor of patent medicines, I regard the lecturer as something of a hero, and intend to profit by his advice—next summer! A point which was particularly

there is in the most mundane commodity. I confess that for years I have regarded a shirt as a shirt; something which convention demanded that I should wear; a boon to my laundry in providing a vent for an insatiable taste in practical joking. Who does not know the indescribable glee of donning a clean shirt in haste only to find two buttons missing? Who has not spent many pleasant minutes in dissecting the cemented front of a "boiled shirt" from its back? Who has not chuckled at the sudden discovery of quite unsuspected and cleverly hidden pins? As an article of apparel and as the motif for subtle humour, the shirt is hard to beat. But as the subject of a talk . . . ?

Well, having heard one from Auckland on Thursday, I am now definitely adding this to the shirt's list of accepted virtues. When the speaker started by rattling off a number of, to me, quite new jokes about the shirt, its history, and present application, I feared that humour was going to prove over-predominant. My fears were quite groundless, however, and the speaker ably proved himself the possessor of the most intimate knowledge as to the origin and life history of the shirt. This history he gave in excellent style, both matter and delivery being quite beyond reproach. Some of the details in this talk were so interesting that I purpose mentioning only a few of those which have stuck in my memory. Before I do that, however, I cannot refrain from quoting what was, to my mind, a very apt remark early in the talk. The speaker mentioned that naturally Adam was the first wearer of a shirt, and that

for material he favoured what is now artificial silk in the raw state!

IN tracing the shirt's history up to 1931 the speaker claimed kinship for the shirt in the skins of animals, coats of mail, and the lace ruffles of the various generations of our ancestors. Whenever one feels inclined to point the finger of accuracy and say "That was the first real shirt," one is assailed by doubt. There are, however, definite dates for the first "commercialised" shirt, and the first "machine-made" shirt. It appears that a certain Mr. Rodgers, in the year 1836, went to London to learn the tea trade. Being a bachelor and without female relatives in the metropolis, he soon suffered from want of Someone to make him a shirt. Very naturally, necessity being the mother of invention, this gave him an idea. He rightly concluded that there were others like himself in similar predicament. Why not therefore employ pauper labour to make up shirts and sell these, via the drapers, ready-made?

Although the speaker did not say so, it is possible that Rodgers also felt that there might be a market among those husbands and brothers who, like the soldiers in the song, would "sooner sleep on thistles" than the kinds of shirts their wives and sisters made. Be that as it may, the venture was not really a success. Drapers, proverbially short-sighted as a class, felt that the sale of shirts would materially affect the sale of their piece cloth. Just why this should have prevented their keeping the trade "in the family," as it were, by catering for both

home-made and ready-made partisans is not clear. In 1845 came the first sewing machine—imperfect in many details, but a sewing machine none the less. The American rights were bought by a man in Cheapside—Thomas, I think, was the name given—and the machine-made shirt became "an *fait accompli*." Collars detachable from the shirt were also invented in America—this time by the wife of a blacksmith! Thus the speaker gradually brought us to the present day, passing in review the various materials which have proved popular.

Arising out of this, his reference to the 4½ million pounds sterling profit made by a British firm in artificial silk (the product of wood pulp) gives food for thought. If this wave of popularity continues and increases, how will the world's forest supply stand the strain? In our own New Zealand factories, the care exercised by our manufacturers, both as regards the articles themselves and the employees maintained, was ably explained. As the speaker rightly remarked at this stage in his talk, Thomas Hood's doleful "Song of the Shirt," deploring the unhealthy factory conditions of his time, might well be revised in view of modern progress in this direction.

I NOTICE that the talk was entitled "The Tale of a Shirt and Pyjamas."

Time seems to have precluded reference to the latter upstarts in the world of night apparel. While their life story cannot be so interesting, owing to the comparative brevity of their ancestral tree, still, I hope the speaker will deal

with the second section of his scheduled talk at some further date, when I shall listen with interest.

WITH the completion of the fourth week since the inception of "The Voice of Michael," I feel it not out of place to pass in review what has been done. During these four weeks I have criticised some two dozen talks, dialogues, lectures and plays, chosen at random from the four main stations. In the course of these I have certainly not spared the speakers, although such criticisms as I have offered are intended to be constructive and not destructive. The page seems to have been accepted with interest and some appreciation. The wish may be father to the thought, but I fancy there has been noted improvement in recent talks, and shall feel gratified, if I may, with all modesty, in some slight way identify myself with this improvement. The thought, at least, will spur me on to further effort.

"Where there is no hope there can be no endeavour."

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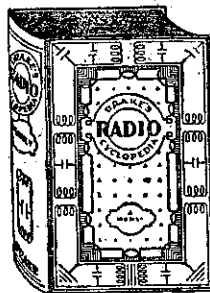
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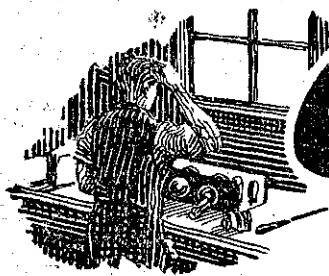
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Questions and Answers



M. M. (Mount Eden): When will you publish the a.c. version of the Outspan Five?

A.: We shall not make any rash promises, but it will appear in the near future.

XYZ (Otago): Can I add another 45 volts "B" battery without making any alterations to the set or using different valves? I use four already.

A.: It would not be wise; four is ample "B" battery for any set, as it represents 180 volts. It would not place any extra drain on an "A" battery.

LOFTY (Linwood): There is an audible hum in the transformer of my L.W. Would this cause a hum in the speaker?

A.: It is possible that the hum may be picked up by the amplifier, but it is unlikely.

2. If I connect the earth to the sub panel it causes loss of volume and distortion.

A.: This is due probably to some slight mistake in the set. However, so long as you get better results by leaving it off, continue to do so. You are not likely to do any damage.

3. I have two transformers of good make, 4-1 ratio. Is this too high to use with push-pull transformers?

A.: No, they are quite satisfactory.

SCREEN GRID (Ngaio): I use a switch to connect my L.W. to the tuner. When I break the contact when changing over from radio the set becomes unstable.

A.: Do you mean that the set is unstable while the switch is in neither position? If so, it is quite understandable as the L.W. is most unstable when

there is no load on the grid circuit. If not, could you make your question a little clearer?

D. E. C. (Waikato): What is the best valve to use in the "Sparrow Hawk" One?

A.: Any two-volt valve, though one of the new 230 type would fill the bill excellently.

2. Would the 2-valve a.c. amplifier described in the "Guide" be suitable to use in the "Sparrow Hawk" One?—Yes.

3. I have been troubled with static for the past two weeks. What is the best device to reduce this?

A.: If you connect a .025 or thereabouts condenser in series with a 50,000 ohms variable resistance and connect this combination across the phones, you can by-pass much of the higher frequency signal, and as static is of high frequency it also will be by-passed to a large extent.

OWL (Greymouth): Could the Radio gram Five described in the 1931 "Guide" be successfully changed over for shortwave work?

A.: Yes, by adapting it along the lines described for the Differential Three a few weeks back. You would make the same coils and couple the set up in the same way. We have not tried this arrangement, but no doubt it would work.

2. What ratio of push-pull transformer do you recommend?—About 3-1.

H. W. Y. (Awanui N.): What briefly is the difference between 66R and 66K speakers, and which is the more suitable for a battery set using 90 volts "B"?

A.: 66R will take 50 mamps of d.c. current against 66K 30. It is a heavier

speaker which will take greater volume, without distorting. A 66R would be the better speaker for your purpose.

2. Which is the better combination of valve for my five-valve American set—the 119 type or ordinary four-volt valves?

A.: The ordinary four-volt would be the better, but do not use A425 as first audio. Use A409. This valve is totally unsuited for the work you are requiring it to do.

3. Which combination is the most economical on "B" batteries?

A.: There is little difference. The possibility is in favour of the first-mentioned combination.

A. DE 'DUFFER (Dunedin): I have a five-valve set, the first audio of which is B605, followed by two 256's in push-pull. I use the set only 12 hours a week and the valves went out in three or four months.

A.: You should not use B605 in the first stage. This valve draws far too much anode current to be passed through an ordinary transformer, and when operated with only 4½ volts grid bias you are shortening the life of the valve considerably.

2. I have 22½ volts in the push-pull stage. Is that right?

A.: Try increasing it to 45 volts, with an idea of double bias (as explained fully in the "Radio Guide"). This will reduce anode current and possibly lengthen the life of your valve.

3. My six-volt accumulator is charged by an old type tuncar 2-amp. charger. It has never been fully charged, and I have never run it down below the red figures (1200). Is this good practice or should it be run down occasionally?

A.: It is very good practice. If everyone did this their accumulators would last twice as long as they normally do.

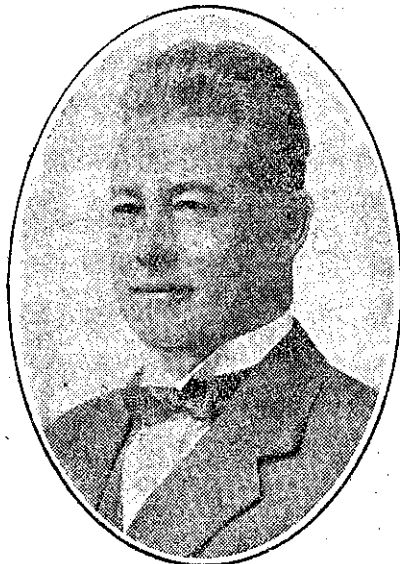
4. On one or two occasions I have left the "B" supply on for some time with the "A" switched off. Would that shorten the life of the valves?

A.: Most decidedly, yes. It is very bad practice, and tends to ruin not only the valves but the eliminator. It is a wonder you have not had a flash over before now.

WESTER (Westport): Could 26 d.c.c. wire be used in the 100 watt transformer described in the "Radio Guide"?

A.: Not without very seriously increasing the bulk of the transformer and possibly spoiling its efficiency. The number of turns would be the same.

2. How does one calculate the length of wire used in these power transformers?



J. T. Paul.

A prominent New Zealand journalist, who broadcasts talks during the international programmes from 4YA.
—Steffano Webb Photo.

A.: Take the average diameter of the winding, the length of which is to be calculated. If it is the primary and you are winding on a 1½ in. square bobbin, the mean diameter will be about 1½. Multiply this by 3.1416 and multiply this by the number of turns. This will give the length of wire required in inches.

SERVICE (Waitaki): What is the standard colour code for resistance and wiring as adopted by the R.M.A.?

A.: Drake's Handbook gives the following:—

"A definite scheme of colours for receiver wiring has been adopted and should be followed wherever possible. Wires are made either with covering of a single solid colour or are made with a cover mainly of one colour but with a tracer



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or a single strand of some other colour woven in."

In general the following plan is used:—
Blue for the antenna circuit or loop circuit.

Reds and maroons for B battery or plate power supply circuits on their positive sides.

Yellow for the A battery or filament circuits on their positive sides.

Green for the grid bias or C battery circuits.

Brown for the loudspeaker circuit.

Black for negative sides or low voltage sides of various circuits.

The colour is chosen according to the point from which the circuit starts. Thus, circuits starting from the B battery or power unit would be given red or maroon, regardless of the other point to which connection is made.

The following list shows the colours used for the body of wires and also for the tracers in the circuits of receivers employing this scheme:—

Colours for Receiver Wiring.

Antenna or grid side of loop—Blue.

Ground or filament side of loop—Black with blue tracer.

A plus filament—Yellow.

A minus, filament—Black with yellow tracer.

A plus and B minus—Yellow with red tracer.

A minus and B minus—Black.

B plus, highest voltage—Bright red.

B plus, intermediate voltage—Dark red.

B plus detector—Maroon.

B plus to speaker circuit—Red with brown tracer.

B minus—Black with red tracer.

C plus—Green.

C plus and A minus—Green with yellow tracer.

C minus, grid bias—Black with green tracer.

Speaker positive—Brown.

Speaker minus, plate side—Black with brown tracer.

Speakers, interconnections.—Brown with white tracer.

When tracers are used to indicate that the wire forms a part of two different circuits, the solid or principal colour is chosen for the circuit having the higher voltage or the more positive voltage. Thus a wire in the A+ circuit and the B— circuit would have yellow as its main colour because the A battery side is of the higher voltage. The tracer would then be of red or maroon to indicate that the wire also enters into the B battery or plate circuit.

What books on a.c. set servicing do you recommend?

A.: For a comprehensive treatment of set servicing see "Rider's Practical Set System." You should get the American trade publication "Radio," also the American "Radio News." A handy annual is the "Radio Trouble Finder and Service Manual" prepared by "Radio News." The "Radio News" for December, 1930, was a special serviceman's number, and contained articles on building one's own testers, etc.

D.C.A. (Pio Pio): I have reason to believe that I do not have my eliminator adjusted for correct grid bias voltage.

A.: Try moving the pin with the C— terminal along to the right, switching the set off each time. Actually it should be in about the last hole, but move it around until the best results are obtained. Keep it in the first row, unless, of course, the C— connection is taken to either the second or third terminal.

MYSTIFIED (King Country): My American set flattens the B battery rapidly, and oscillates when tuning in to a station?

A.: This is due very likely to a broken down condenser. This is a small flat component which should not pass direct current, and which is situated between one of the B+ terminals, usually B+r.f. and earth. If this breaks down your B battery is connected directly to earth, and of course the battery becomes flat and the set squeals. Better get someone

who knows something about the set to replace it.

SYD. (Otahuhu).—1. What is a megger test?

A.: A megger is an instrument to measure resistance, consequently when you apply the megger test you merely measure the resistance between any two points.

2. What is a tuned circuit?

A.: A coil (inductance) and a condenser (capacity). In more technical terms, a tuned circuit is a combination of inductance and capacity, which reacts at a certain frequency, determined by the

amount of capacity and the amount of inductance. In other words, a coil and condenser. If a coil or condenser is variable, the combination is spoken of as a variable tuned circuit.

3. What are low loss coils?

A.: Strictly speaking, coils in which there is a low distributed capacity; in other words, a high efficiency coil.

H.F. CHOKE (Wellington): Will a .0003 variable condenser make much difference to my set, which specifies a .00025 condenser, and can I change over my .00035 reaction to a .0003?

A.: You could change over to a .0003 if you removed about 10 turns from the

secondary coil. You could use .0003 for reaction, and if it is fierce take off a few of these turns.

2. Will this set get New Zealand stations on headphones?—Yes.

3. How long would a standard B battery last if it were used two hours a day?

A.: About nine months.

IGNORANT (Wellington).—I have a two-valve set. Can I use two .00035 condensers instead of a .00025 and a .0005?

A.: If you want to have an all-wave set you will need a smaller condenser than .00025 for tuning. Say you use a

(Concluded on page 35)

Monday, February 23, 1931

THE DAILY MIRROR

Page 3

PRINCE TALKS TO THE KING

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Power Unit and Battery Charger



In designing this combined "B" power unit and "A" battery charger, we have borne in mind the constructors of both the "Home and Country" portable and "Differential" series. In the "Home and Country" receiver, something of the kind is essential in order to economise on the drain from small portable batteries, while the unit will be found at once an economy and a convenience by all those readers who have constructed one of the "Differential" sets.

The same power transformer is used for both the "B" eliminator and the battery charger. The number of windings is, therefore, somewhat larger than usual, and the transformer perhaps a trifle more difficult to construct. However, every effort has been made to simplify the construction as far as possible, while if, after a perusal of the details, the reader still feels that the transformer is beyond his abilities, he can have it made up by one of several firms who undertake this work at a very reasonable charge.

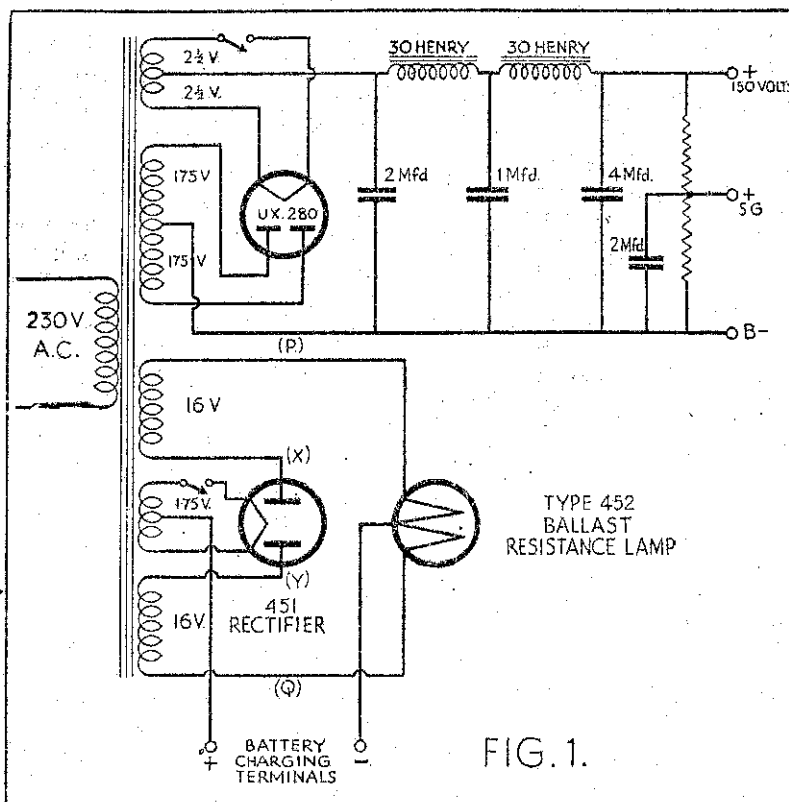
The Transformer.

THE construction of the transformer should be the first task. This has been simplified somewhat by the use of two bakelite bobbins on one of which the primary and the windings for the filaments of the high voltage rectifier valve and the charging valve are wound, while on the other bobbin are wound the centre tapped high voltage secondary and the two 16-volt plate windings for the charging rectifier.

The bobbins used give a core area of $4\text{ in.} \times 1\frac{1}{2}\text{ in.}$, so that the primary will have to be of about 1350 turns. A suitable gauge of wire will be 32 s.w.g. There is no unlimited room on the bobbins, so that either enamelled wire or double silk covered wire must be used. If enamelled wire is used it is absolutely essential that shellacked paper should be put between each layer, and if this is put on while it is still tacky it will help to hold the winding firmly together.

Suitable for "Differential" Series and "Home and Country" Portable

By "Cathode."



The circuit of the power-pack and battery charger.

If double silk covered wire is used, and each layer well shellacked, it is permissible to dispense with the paper interleaving. Wire of this kind, however, is somewhat more expensive than is enamelled wire of the same gauge.

When the primary is wound, a couple of layers of oiled silk should be wound on for purposes of insulation, to be followed by the filament winding of the high voltage rectifier. The 280 rectifier is probably the best available and the filament winding for this consists of 30 turns of No. 20 d.c.c. This winding must be tapped at the 15th turn, the tap being brought out between a couple of scraps of oiled silk. On top of this again, and separated from it by another two layers of oiled silk, should be wound the filament winding for the battery charging rectifier. A Philips Type 451, the filament of which is rated at 1.75 volts, has been chosen for the charging rectifier. The winding should consist of 11 turns of 18 d.c.c. tapped as near the centre as can be managed.

On the other bobbin the high voltage secondary is the first winding to go on, and this can consist of 2000 turns of

36 s.w.g. This may be either enamelled or double silk covered, the same remarks applying as in the case of the primary. On top of this winding, and separated from it by oiled silk, as before, the plate windings for the charging valve may be wound.

There are two of these, and each consists of 96 turns of No. 24 s.w.g. double silk covered wire being really best to use. As each winding is started and finished it is advisable to tag the end of the wire, so that no confusion will arise among the many tappings. The winding will be rendered very much easier if a little winding jig is made to fit the bobbin, and opportunity can be had also to bolt small scraps of aluminium or formica on to the jig to prevent the checks of the bobbin spreading.

This is not absolutely essential, however, as the bobbins are fairly stiff and only spread a fraction of an inch. The individual turns need not be counted in the primary and high voltage secondary. The turns in one layer should be counted, and if, then, the layers are

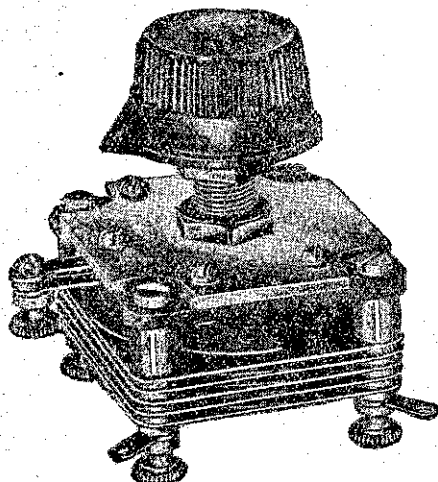
Material List.

- 1 Power Transformer as described.
- 2 30 Henry chokes.
- 1 2-mfd. Condenser (high-voltage).
- 1 1-mfd. Condenser (high-voltage).
- 1 4-mfd. Condenser (high-voltage).
- 1 2-mfd. Condenser (low voltage).
- 1 20,000-ohm. Tapped Power-resistance (25 watt size).
- 1 UX Valveholder.
- 2 English Valveholders.
- 3 Power Switches (not battery switches).
- 1 UX 280 Rectifier Valve.
- 1 Philips 451 Rectifier Valve.
- 1 Philips 452 Ballast Lamp.

counted instead of the turns, this will be accurate enough for all practical purposes.

Assembling the Laminations.

WITH the bobbins wound, it then remains for the laminations to be assembled. The bobbins are made to fit the standard No. 4 stalloy laminations, and the T pieces should be inserted from alternative sides, so that no two joints will come above one another. Each layer comprises, of course, a T piece and a U piece. The laminations must be clamped tightly to prevent hum, and suitable clamps, as



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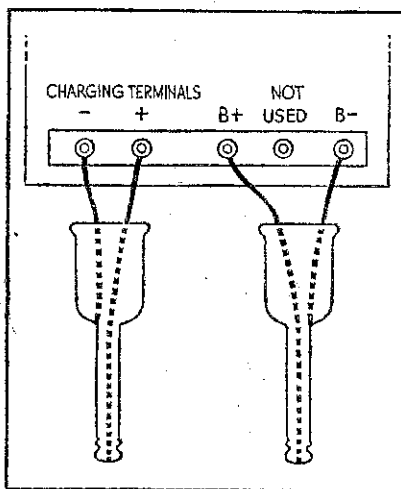
Mullard
THE MASTER VALVE

well as bobbins, are available commercially.

No terminal strip is mounted on the transformer, as it is more convenient simply to lead the ends of the wires to appropriate points through pieces of insulating sleeving. For this reason the ends of the wires should be left reasonably long to make the connection, or if it is found that they get in the way too much, then they may be cut fairly short and wires subsequently soldered to them for the purpose of making the connection. In the case of the fine wire windings, these wires should not be too heavy or they will place a strain on the fine wire which comes from the transformer itself.

The Smoothing Chokes.

THE smoothing chokes may also be constructed (if desired) from similar materials to those used for the power transformer. Full instructions for the construction of smoothing chokes are given in the "Guide," so that there is no need to give any further information on the subject here. The chokes should be constructed to specifications giving an inductance of



The arrangement for battery charging and for deriving "A" and "B" voltage.

30 henries or thereabouts when passing a current of 25 or 30 milliamperes.

Choke D.

It is, as a matter of fact, somewhat questionable whether the saving ef-

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LOW PRICE

That is NOT our Policy

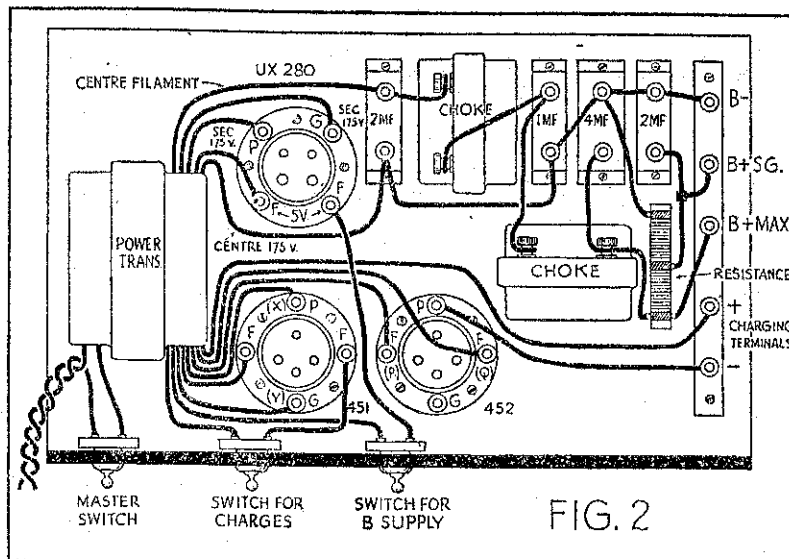
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—THE—
C. A. S.

29 VENTNOR STREET, SEATOUN,
WELLINGTON.



Layout diagram of power-pack and battery charger.

fect by constructing smoothing chokes is sufficient recompense for the labour involved in their manufacture. They can be bought quite cheaply.

The Smoothing.

The slightly unusual arrangement of the smoothing condensers in the power pack is the outcome of a considerable amount of experiment with the object of obtaining maximum smoothing from a minimum expenditure on condensers. From measurements made, it was found that the improvement affected by increasing the size of the first condenser above 2 mfd., or that of the second condenser above 1 mfd., was so inconsiderable that to provide bigger condensers at these points was clearly uneconomical.

The third condenser, however, shows a progressive improvement in smoothing, as its size is increased until a capacity of 5 or 6 mfd. is reached. The improvement is less marked, how-

ever, when the size of the condenser is increased above 4 mfd., so this value has been chosen in the present design. These three filter condensers should have a working voltage of at least 300 d.c., or a test voltage of at least 600 d.c. The remaining condenser connected between the tapping for the screen grid voltage and earth (for the "Differential" receiver) is not subjected to any very high voltages and the ordinary small-sized condenser will normally be quite safe in this position.

The precise arrangement shown in the diagrams is intended more particularly to fit the requirements of the "Differential Four." It is, however, eminently suited for other receivers, including the "Home and Country" portable, and may be used for any such receiver without any modification whatever. It is permissible, however, in the case of a receiver employing but a single "B" voltage (such as the "Home and Country" portable) to

dispose of the tapped resistance across the output of the power unit and with the condenser from the tapping point on this resistance to earth.

In the case of the "Home and Country" receiver, of course, the terminals are connected to two lengths of twin flex terminating in phone plugs to fit into the special jacks provided in the receiver.

Battery Charging.

PERHAPS the most unfamiliar part of the apparatus to most readers will be the battery charging valve and its associated equipment. The Philips Type 451 valve is a small mercury vapour rectifier having a hot cathode

Chamber Music from 2YA

A MISNOMER, for which we alone are responsible, occurred in last week's "Radio Record," when the trio from the Wellington Chamber Music Players was referred to as "The Tanner Trio." This trio of brilliant artists—Leon de Mauny, violinist; Evelyn de Mauny, pianist; and Claude Tanner, cellist—although they have broadcast as a trio from 2YA, are not known under any particular title. Their broadcast any particular title. Next week a photograph of the trio with a corrected title will be reproduced.

and two plates to each of which an a.c. voltage of approximately 16 is applied. The filament of this valve draws a current of 3.5 amps at a voltage of 1.75, so that the wire connecting the transformer winding to the valve-holder must be fairly heavy.

The reader will be wise to follow the previous recommendation that the loose end of the transformer winding itself should be used to make the connection between transformer and valve-holder. The output of the 451 rectifier is 1.3 amps, and this charging current is maintained constant for any battery up to 6 volts by the ballast resistance bulb (Philips No. 452), which serves the double purpose of protecting the rectifier and regulating the charge.

Usually, the ballast bulb does not glow with a 6-volt battery on charge, but may glow slightly for a 4-volt battery, and fairly brightly for a 2-volt battery. It may be noted that both the rectifier and the ballast bulb are supplied with the English type of valve base. The rectifier bulb has the normal connections for the filament with the two plates connected to the grid and plate terminals. The resistance lamp has its two outside connections connected to the filament pins, while the centre tapping of the resistance is connected to the plate pin. This bulb has only three pins. No ammeter or charge indicator of any kind is required, as the output of the charger, if correctly made, is absolutely constant and reliable.

With these few notes it is not considered that the constructor will experience any difficulty in completing the apparatus, as the theoretical and practical diagrams show clearly the connections and arrangement of the components. The connections from the eliminator and charger to the plates for the "Home and Country" receiver are shown separately in the small diagram, and this should render this little point quite simple and straightforward.

The only point is that the utmost care must be taken not to insert the plugs into the wrong jacks, as an error of this kind may lead to serious results.

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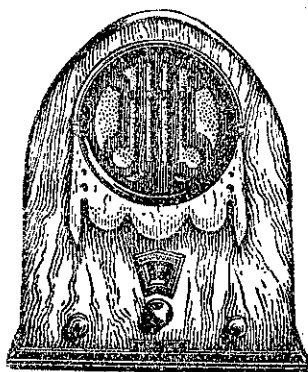
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FEATURE PEEPS

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FUTURE PROGRAMMES

SUNDAY

Auckland Notes

ON Sunday afternoon there will be a relay of a portion of the organ recital to be given in the Town Hall by the city organist, Mr. Maughan Barnett.

In the evening Divine service will be relayed from the Pitt Street Methodist Church, the preacher being the Rev. W. Walker, and the organist and choir-master, Professor W. A. Moore. Appearing on the after-church concert programme will be Mr. William Gemmell, the well-known baritone. Mr. Gemmell has sung for many of the societies throughout New Zealand, and is the conductor of the choir of the Beresford Street Congregational Church. Instrumental items will be rendered by the Whisker Quartet and by Mr. Cyril Towsey, studio pianist.

Wellington Features

THE evening service in St. John's Presbyterian Church will be broadcast. The preacher will be the Rev. J. R. Blanchard, the organist and choir-master, Mr. C. W. Kerry.

From Christchurch

AT 3 p.m., 3YA will relay the International Youth Rally to be held in the Civic Theatre, the speaker being Dr. T. Z. Koo.

At 6.30 the service in Holy Trinity Anglican Church, Avonside, will be broadcast. The preacher will be the Rev. Nelson Wright, the organist and choir-master Mr. Arthur Lilly, A.R.C.O.

The relay of 4YA's after-church concert will follow.

From 4YA

THE popular Salon Orchestra, of nine players, under the conductorship of Mr. A. H. Pettitt, assisted by Miss Myra Stokes, Mr. Norman Gamble and Mr. W. N. Satterthwaite, will provide the after-church programme from the studio. Of special interest will be a



LES GRUMMITT,
Pianist and orchestral conductor,
who performs for 3YA.

—Steffano Webb, photo.

new selection that is to be played by the orchestra on this occasion.

"From A to Z" is the title of the piece, comprising twenty-six selec-

tions from the works of well-known composers, arranged in alphabetical sequence. "A" stands for Abt, "B" for Beethoven, "C" for Chopin, "D" for Dvorak, and so on, the ultimate effect being a selection of classical origin, full of melodic continuity and with excellent harmonic effects.

The orchestra will also present a selection, "The Voice of the Bells of St. Stephen's," a Viennese melody, and "Rozsa Czardas," a Hubay extract. This latter has plenty of work for the violin, is bright and cheery, and will be a welcome addition to the programme. The concluding item by the orchestra will be an Italian march, "Florentine," by the orchestral marching, Fucik. Miss Myra Stokes and Mr. Gamble will present duets in addition to solos, one of which will be Rubinstein's "Wanderer's Night Song." The song chosen is a fine example of this composer's work. Mr. Satterthwaite's contributions will be "The Link Divine," by Piccolomini, "Nearer My God to Thee," by Carey, and "The Beautiful Prayer," by Gray.

MONDAY

Wellington Features

IT has been said that only an Italian can do full justice to the famous patter song, "Largo al Facotum," from Rossini's "Barber of Seville," one of the songs to be sung by Signor Lucien Cesaroni this evening. Signor Cesaroni will also sing "Leporello's Humorous Ariette" from "Don Juan," by Mozart, and "Within these Sacred Bowers," by the same composer. The favourite "Miserere" (from "Il Trovatore") will be sung with piano and organ accompaniment, and also the fine trio for soprano, tenor and bass from Verdi's opera, "I Lombardi," with orchestral accompaniment.

Another outstanding feature of the programme will be the performance of Liszt's brilliant piano "Concerto in E Flat" with full orchestral accompaniment. This will be played in two movements by Miss Mary Lennie, L.T.C.L., and Miss Lalla Vondersloot, L.A.B., respectively.

From Christchurch

MR. N. M. BELL, M.A., will broadcast from 3YA a talk on "Esperanto."

The Christchurch Municipal Band (under Conductor J. Noble) will provide the instrumental portion of the programme. Among the singers appearing this evening will be Mr. Adam S. Mitchell (tenor), who will make his first appearance in radio.

FEATURETTES

"From A to Z"

4YA, Sunday

Cesaroni Concert

2YA, Monday.

"Fortune Favours Fools"

2YA, Tuesday

"The Price"

1YA, Wednesday

"Columbus Goes West"

4YA, Wednesday

Harold Coman's Orchestra

3YA, Friday

During the evening, a talk entitled "China Through Chinese Eyes," will be given by Dr. T. Z. Koo.

Dunedin Features

A TALK on "Made in New Zealand Week" will be broadcast by Mr. J. G. Jeffries, vice-president of the Dunedin Manufacturers' Association.

In the evening 4YA will broadcast the second instalment of the international programmes.

TUESDAY

Auckland Notes

AT 3.15 Mrs. Leslie Crane will be heard in a talk on "The Beauty of Mind and Body in Relation to Diet." At 7.40 p.m. Mr. N. M. Richmond, M.A., Director of the W.E.A., will give a talk on "Art in Everyday Life."

Mr. A. B. Thompson, baritone, who as an artistic singer of classical songs has made himself so popular with listeners, will be heard during the evening. He has included among his numbers two songs by Brahms, "Sunday," and "Serenade." Reg. Morgan and his orchestra will supply the instrumental portion of the programme, and will also provide the dance music.

This evening introduces a new series to 1YA listeners—a sonata for piano and violin—a type of work which is very seldom heard. The two artists engaged for this work are Miss Maida Hooker (pianiste) and Mr. Haydn Murray (violinist), both of whom are in the front rank of instrumentalists in Auckland. They have selected "Sonata Op. 8" by Grieg. Between the movements of the sonata Miss Berta Carr, mezzo-soprano, will be heard in a bracket of three classical solos.

From Wellington

AS the schools are in recess, the session conducted at 2YA from 2 to 3 p.m. by the Department of Education will be mainly talks to parents. At 3.15 Mrs. T. W. Lewis will give another of her interesting talks on "Fabrics and Fashions." A lecturette entitled "For the Man on the Land" will be given by a representative of the Agricultural Department at 7.40.

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The evening programme should prove very acceptable. The Salon Orchestra will play the overture "Maid of the East," the waltz "Magic of Love," a selection "Nautical Scenes," a bell solo with orchestral accompaniment, "Cloches de St. Malo," a novelty suite, "Dolls' House," and the latest dance novelties.

A feature of the evening will be the one-act comedy entitled "Fortune Favours Fools" (by Overton), arranged and produced by Mr. Norman Aitken. Comedy is the keynote of the play, and with Mr. Norman Aitken as 'Erney' 'Erbert' 'Iggin', should provide a very amusing and interesting half hour.

Also on this programme will be Mr. Sydney Francis Hoben, who will be heard in a piano recital, with introductory remarks. His programme includes "Hark! Hark! the Lark" (by Schubert-Liszt), "Barcarolle," from "Tales of Hoffman," and "Turkey in the Straw" (by Guion). Mr. Richard Maunder, lyric tenor, who has a voice most suitable for broadcasting, will again delight listeners.

4YA Notes

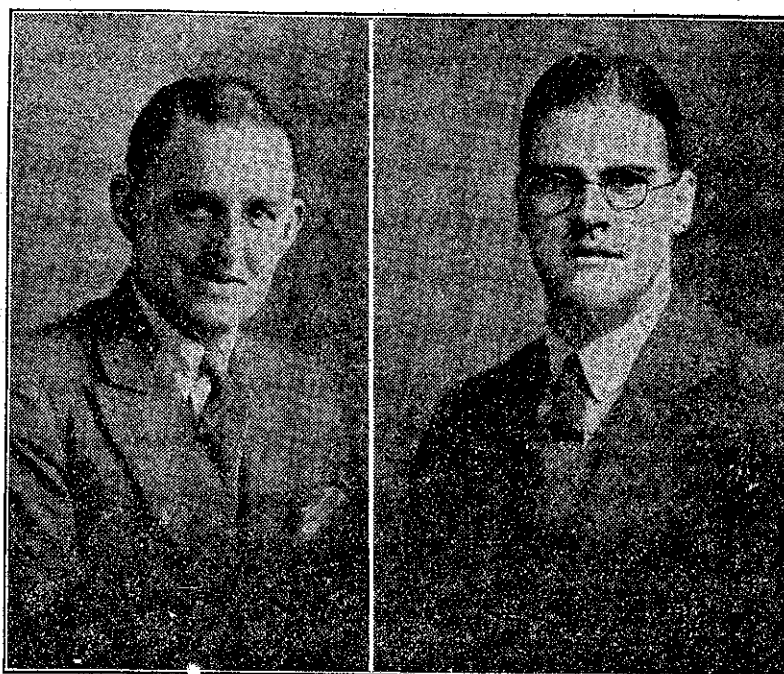
THE Dunedin Trainways Band, under Mr. Chas. T. Morgan, will present a programme this evening. The numbers will include Toselli's "Serenade," Myddleton's "By the Swanee River," a descriptive selection, two popular melodies, Verdi's "Nabuccodonosor" overture, the "Beautiful Blue Danube Waltz," and "Scenes That Are Brightest" (from "Maritana"). The vocal portion of the programme will be provided by The Majors, who will present a variety of items. Mr. James A. Paterson will dispense Scottish humour.

WEDNESDAY

Auckland Features

AT noon 1YA will relay the community singing at the Town Hall. At 7.40 Mr. Norman Kerr will speak on "Physical Culture."

The programme for the opening night of the Auckland Radio Exhibition will include items by the orchestral octet and the 1YA Broadcasting Choir. Some very fine choral numbers with orchestral accompaniment will be presented. Another interesting item will be the production of the one-act play, "The



ALBERT CARLISLE,
a Christchurch tenor whose solos are much appreciated by listeners.

MALCOLM MILLER,
a bass-baritone of fine quality, appearing from 3YA shortly.

"Price," by Dr. George de Clive Lowe, of Auckland. This will be produced by Mrs. Zoe Bartley Baxter, and will be given with all the effects and lighting essential to a first-class performance.

Wellington Notes

AT 7.40 p.m. Mrs. Albert Russell will give another of her interesting talks entitled "The Art of Successful Living—Principles of Success." An international programme will be presented in the evening. At 9 p.m. Dr. Guy H. Scholefield, O.B.E., will give a talk on a subject of international interest.

Christchurch Features

TO-NIGHT a concert to be given at the Radiant Hall by the Christchurch Orchestral Society, under the conductorship of Professor Oddone Savini, will be relayed.

From 4YA

THE afternoon talk to be given by the Home Science Extension Depart-

ment of Otago University, will be on "First Aid in the Home." At 7.15 Mr. A. C. Cameron will speak on "Marketing."

A programme entitled "Columbus Goes West" will be presented in the evening. It will be an essentially Spanish programme introducing a descriptive talk of Columbus's voyage of discovery and Spanish music. The sea atmosphere will be conveyed by numerous sea chanties. The whole programme will be under the direction of Major F. H. Lampen.

THURSDAY

Auckland Notes

AT 7.40 there will be a talk, under the auspices of the New Zealand Manufacturers' Association, on "Production of Clothing from Mill to Wearer."

The programme to be broadcast from the model studio at the Auckland Radio Exhibition, will be given by the Orchestral Octet (under the direction of Mr. Harold Baxter), and assisting artists. During the evening there will be a relay of items from the Lewis Bady Hall of the Aeolian Orchestra's concert.

From Wellington

THE speaker for the home science lecturette will be Miss I. F. Meadows. Mr. W. E. Priestley will give another of his interesting talks on "Modern Ballroom Dancing" at 7.40.

Listeners will welcome the return this evening of a number of popular artists, including Mr. and Mrs. Albert Russell, who will contribute a potpourri of humorous items, including new songs and dialogue.

Also on this programme will be Miss Mabel Dyer (contralto) and Mr. 'gai' Swain (tenor), in solos and duets. The Salon Orchestra, under Mr. M. T. Dixon, will play the selection, "Squire's Popular Songs," a suite for piano and strings, "Four Characteristic Waltzes," a clarinet solo with orchestral accompaniment, "Concertino," a selection

"My Son John," and a fantasia, "Glory of Russia." Suitable electric recordings will be introduced to complete the programme.

From 3YA

AT 7.30 there will be a talk on forestry by Mr. F. E. Hutchinson.

Included on the evening's programme will be a recital by Mrs. K. J. Greene of six of her native Hungarian folk songs. Mrs. S. M. Williamson will be accompanied by the Studio Octet in her rendition of "Angus McDonald," "The Second Minuet" and "A Perfect Day." An instrumental programme will be provided by the Studio Octet, under Mr. Harold Beck.

FRIDAY

Auckland Notes

ANOTHER very fine programme will be broadcast this evening from the Model Studio at the Auckland Radio Exhibition. Once again the Orchestral Octet will appear, and vocal items will be given by the New Clarion Quartet (consisting of Misses Lillian Woods, Beryl Smith, Messrs. Lambert Harvey, and Duncan Black). Piano solos will be given by Mr. Eric Bell, humorous numbers by Mr. Zante Wood, and novelty items by Mr. Elton Black and Miss Alice Bennetto.

Wellington Features

AT 7.40 Mr. Will Lawson, the well-known Australian author, will give a lecturette entitled "Impressions of the Far East."

In the evening the 2YA Orchestral, under Signor A. P. Truda, will play the overture "The Spartan," a selection, "A Day in Paris," a fantasia, "Ideal Aida," and the march "Tzigane." Mr. E. H. Jones, Welsh basso, will again delight listeners with four songs, "A Son of the Desert Am I," "O Mother Mine," "Bells of the Sea," and "My Little Welsh Home." Miss Mary Bald (contralto), a newcomer to 2YA, will be heard in three songs with orchestral accompaniment, "I Pitch My Lonely Caravan," "A Song Remembered," and "Slave Song."

The Harmony Four, a clever instrumental combination, consisting of Hawaiian Spanish guitars, one-string fiddle and ukelele, will be heard in a budget of popular songs and melodies. Also included on this programme is Miss Ellis Gilders, pianist, who comes to 2YA with a Southern reputation. She will be heard in two solos, "Caprice" and "Romance (both by Sibelius).

Christchurch Notes

THE weekly dialogue on "Radio Service" will take place as usual, the speakers being Mr. D. Cossgrove and W. Melbourne.

A new combination of instrumentalists, the Harold Comans Orchestra, will be heard this evening, contributing saxophone solos, one-steps, waltzes, foxtrots, trombone solos and marches.

Miss Maisie Ottey, novelty pianiste, will provide several items. The vocal portion of the musical programme will be entrusted to the Melodious Quartet, who will feature excerpts from musical comedies. The evening's programme will conclude with a half-hour's gramophone lecture-recital by Mr. Karl Atkinson on "Richard Wagner—Poet-Composer."

(Concluded on page 33.)

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Full Programmes for Next

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Sunday, May 17

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MAY 17.

- 3.0 : Selected recordings.
 3.15 : Relay of portion or Organ Recital from the Auckland Town Hall by the City Organist, Mr. Maughan Barnett.
 6.0 : Children's song service, conducted by "Uncle Bert."
 7.0 : Relay of Divine Service from the Methodist Church, Pitt Street.
 Preacher: The Rev. W. Walker. Organist and Choirmaster: Professor W. A. Moor.
 8.15 (approx.): From the studio.
 Barbirolli's Orchestra, "A Little Night Music" (Mozart).
 Contralto—Mrs. Gwen de Berg, "Sing, Break Into Song" (Mallinson).
 Vocal—Mrs. Gwen de Berg and Mr. Roger Errington, "Violets."
 Tenor—Mr. Roger Errington, "On With the Motley" (from "Pagliacci").
 Instrumental—The Whisker Quartet, (a) "Gavotte" (Rameau); (b) "Berceuse" (Cui).
 Baritone—Mr. William Gemmell, (a) "The Sun God" (James); (b) "Prince Ivan's Song" (Allitsen).
 Violin—Erica Morini, "Forsaken" (Koschat).
 Evening weather forecast and announcements.
 Piano—Mr. Cyril Towsey, "Impromptu in B Flat Major" (Schubert).
 Tenor—Mr. Roger Errington, (a) "When Other Lips" (Balfe); (b) "La Donna E Mobile" (from "Rigoletto") (Verdi).
 Contralto—Mrs. Gwen de Berg, (a) "Winds in the Trees" (Thomas); (b) "When the Dew is on the Rosebud" (Schumacher).
 Vocal—Mrs. Gwen de Berg and Mr. Roger Errington, "Home to Our Mountains" (Verdi).
 Instrumental—The Whisker Quartet, (a) "Mazurka" (Scriabine); (b) "Reverie" (Arensky).
 Baritone—Mr. William Gemmell, "The Devout Lover" (White).
 Violin—Erica Morini, "Dances Tziganes" (Nachez).
 Instrumental—The Whisker Quartet, (a) "Evening Prayer" (Humperdinck); (b) "Anecdote" (Vogrich).
 Philadelphia Symphony Orchestra, "Nocturne No. 2" Fetes (Debussy).
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MAY 17.

- 3.0 to 4.30: Selected gramophone recordings.
 6.0 : Children's service, conducted by "Uncle George" and assisted by the Children's Choir from Methodist Church, Thorndon.
 7.0 : Relay of Evening Service from St. John's Presbyterian Church.
 Preacher: Rev. J. R. Blanchard. Organist and Choirmaster: Mr. C. W. Kerry.
 8.15 (approx.): Relay of Band Recital by the Port Nicholson Silver Band from the Grand Opera House. (Conductor Mr. J. J. Drew).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MAY 17.

- 3.0 : Relay of Youth Rally (Inter Bible Class Council) from Civic Theatre—Dr. T. Z. Koo (speaker), vice-president of the World's Student Christian Federation and Graduate of St. John's University, Shanghai, and Oxford.
 5.30: Children's Song Service by children of Church of England Sunday Schools.
 6.15: Chimes from studio.
 6.30: Relay of evening service from Holy Trinity Anglican Church, Avonside.
 Preacher: Rev. Nelson Wright. Organist and Choirmaster: Mr. Arthur Lilly, A.R.C.O.
 7.45 (approx.): Musical recordings from studio.
 8.15 (approx.): Relay of programme from 4YA Dunedin.
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MAY 17.

- 3.0 : Selected recordings.
 5.30: Children's Song Service, conducted by "Big Brother Bill."
 6.15: Instrumental recordings.
 6.30: Relay of Evening Service from Hanover Street Baptist Church.
 Preacher: Rev. Ernest S. Tuckwell, B.A. Choirmaster: Mr. H. P. Desmoulin.
 7.45: Selected recordings.
 8.15: Studio presentation by Mr. A. H. Pettitt's Salon Orchestra, assisted by 4YA Artists.
 Selection—Salon Orchestra, "From A to Z" (a medley in alphabetical sequence) (Gelger).
 8.31: Duet—Miss M. Stokes and Mr. N. C. Gamble, "Though Your Strangeness Frets My Heart" (Jones).

- Contralto—Miss M. Stokes, (a) "Romance" (from "Faust") (Gounod); (b) "Now's the Time to Love" (Gounod).
 8.40: Selection—Salon Orchestra, "Aida" (Verdi).
 8.52: Tenor—Mr. W. N. Satterthwaite, "The Beautiful Prayer" (Gray).
 8.55: Piano—Johnny Anbert, "Scenes of Childhood" (Schumann).
 9.3 : Weather report and station notices.
 9.5 : Selection—Salon Orchestra, (a) "The Voice of the Bells of St. Stephen's" (Viennese Melody) (Wotfitz); (b) "Rozsa Czardas."
 9.12: Baritone—Mr. N. C. Gamble, "I Triumph! I Triumph!" (Carissimi).
 Duet—Miss M. Stokes and Mr. N. C. Gamble, "Wanderer's Night Song."
 9.18: Suite—Salon Orchestra, "Three Arabian Dances" (Ring).
 9.28: Organ—Lew White (a) "Old Black Joe"; (b) "My Old Kentucky Home" (Foster).
 9.33: Tenor—Mr. W. N. Satterthwaite, (a) "The Link Divine" (Piccolini); (b) "Nearer My God to Thee" (Carey).
 9.40: Violin—Miss Ethel Wallace, (a) "Spanish Dance" (Granados); (b) "Valse Serenade" (Drdla).
 9.47: Male choir—Ural Cossacks, (a) "Der Nordische Stern" (Glinka); (b) "Das Gebet Des Korsaken" (Koliatilin).
 9.55: Italian march—Salon Orchestra, "Florentine Marsch" (Fueck).
 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, MAY 17.

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

Monday, May 18

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, MAY 18.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, MAY 18.

- 10.0 : Chimes. Selected gramophone recordings.
 11.0 : Miscellaneous.
 12.0 : Lunch hour music.
 2.0 : Miscellaneous.
 3.0 : Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 5.0 : Children's session, conducted by "Uncle Jeff."
 6.0 : Dinner music session.
 Paul Godwin Dance Orchestra, "The World's Best Waltzes" medley.
 Ilja Livschakoff Orchestra, "Fiddler Where is Your Home?"
 Vienna Schrammel Quartet, "Serenade" (Heykens).
 Paul Godwin's Orchestra, "Marche Grotesque" (Sinding).
 Ilja Livschakoff Dance Orchestra, "Roses of the South" (Joh. Strauss).
 Organ—H. Wood, "Songs My Mother Taught Me" (Dvorak).
 Orchestra Mascotte, "Amoureuse" waltz (Berger).
 Paul Godwin Orchestra, "The Clock and the Dresden Figures."
 Ilja Livschakoff Orchestra, "Hungarian Medley" (Leopold).
 Vienna Schrammel Quartet, "Silk and Velvet" waltz (Ziehrer).
 Paul Godwin's Orchestra, "Joy Bells" (Blaauw).
 Organ—H. Wood, (a) "Song Without Words" (Mendelssohn); (b) "Adagio From L'Arlésienne" (Bizet).
 Ilja Livschakoff Dance Orchestra, "Blue Danube" (Strauss).
 Dajos Bela Orchestra, "The Grenadiers" waltz (Waldteufel).
 La Argentina, Castanets with Orchestra, "Dance No. 5" (Granados).
 Paul Godwin Orchestra, "The Cathedral Bells" (Becker).
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Overture—Bournemouth Municipal Orchestra, "Don Giovanni" (Mozart).
 8.9 : Bass—Signor Lucien Cesaroni, "Within These Sacred Bowers."
 8.13: Vocal trio with orchestra, Miss Eunice Standen, Mr. Ray Trewern and Signor Lucien Cesaroni, "I Lombardi" (Verdi).
 8.17: Selection—2YA Orchestra (Conductor Signor A. P. Truda) "Fierrabass" (Schubert).
 8.26: Lute—Professor Raffaele Calace, (a) "Serenata Malinconica" (Calace); (b) "Canto Nostalgico."
 8.34: Soprano—Miss Eunice Standen, with violin obbligato, "Morning."
 8.38: Piano—Miss Mary Lennie, L.T.C.L. with orchestra, 1st Movement of "Concerto in E Flat" (Liszt).
 8.46: Tenor—Mr. Ray Trewern, "A Song Remembered" (Coates).
 8.50: Ballet music, 2YA Orchestra, "Faust Ballet Music" (Gounod).
 9.0 : Weather report and station notices.
 9.2 : Selection—Band of H.M. Grenadier Guards, "Ivanhoe" selection.
 9.10: Bass—Signor Lucien Cesaroni, "Largo Al Factotum" from "Barber of Seville" (Rossini).

Week-all Stations-to May 24

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

- 9.15: Instrumental—Orchestra, "Norwegian Dance" (Grieg).
 9.22: Duet with piano and organ accompaniment—Miss Eunice Standen and Mr. Ray Trewern, "Miserere" (from "Il Trovatore") (Verdi).
 9.27: Piano with orchestra—Miss Lalla Vondersloot, "2nd Movement of Concerto in E Flat" (Liszt).
 9.38: Violin—George Kulenkampf, (a) "La Capricciosa" (Ries). (b) "Danse" (Scott).
 9.46: Bass—Signor Lucien Cesaroni, with orchestral accompaniment, "Leporello's Humorous Ariette" (from "Don Juan") (Mozart).
 9.51: Concert Valse—Orchestra, "Je T'Aime" (Waldteufel).
 10.0: Dance programme.
 Foxtrots—Jack Payne and His B.B.C. Dance Orchestra, "The Punch and Judy Show" (Black).
 O'Leary's Irish Minstrels, "The Pigeon on the Gate."
 Jack Payne and His B.B.C. Dance Orchestra, "Crazy Pirouette."
 Waltz—O'Leary's Irish Minstrels, "My Wild Irish Rose."
 10.12: Foxtrots—Ray Starita and His Ambassadors Band, "My Dream Memory" (Clare).
 Jan Garber and His Orchestra, "When a Woman Loves a Man" (Rainger).
 Vocal—Len Maurice, "A Little Kiss Each Morning" (Woods).
 10.21: Foxtrots—The Four Bright Sparks, "Hard To Get" (Meyer).
 Ben Selvin and His Orchestra, "How Am I To Know?"
 Guy Lombardo and His Royal Canadians, "Singin' in the Bathub" (Magidson).
 10.30: Waltz—Will Osborne and His Orchestra, "There Will Never Be Another Mary" (Ager).

- Foxtrots—Guy Lombardo and His Royal Canadians, "A Little Kiss Each Morning" (Woods); "Under a Texas Moon" (Perkins).
 10.39: Vocal—Len Maurice, "Gay Love" (Clare).
 Waltzes—Paul Whiteman and His Orchestra, "It Happened in Monterey" (Yellen).
 Moana Orchestra, "My Hawaiian Isles" (Noble).
 10.48: Foxtrots—The Four Bright Sparks, "The Kerb Step" (Knox).
 Paul Whiteman and His Orchestra, "Song of the Dawn."
 Moana Orchestra, "Dreamy Hula Town" (Collins Carlson).
 Ted Lewis and His Band, "Lady Luck" (Perkins).
 11.0: God save the King.

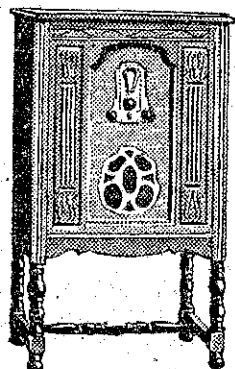
3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, MAY 18.

- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour.
 6.0: Dinner music session.
 The London Orchestra, "Valse Memories" (arr. Somers).
 Organ—Jesse Crawford, "La Borrachita" (Fernandez Esperon).
 Symphony Orchestra, "L'Amour Sordier" (de Falla).
 Piccadilly Orchestra, "The Waltz Dream" (Strauss).
 Marimba Band, "Morales Lopez" (Bolanos).
 Royal Opera Orchestra, "Prelude—The Huntress" from "Sylvia Ballet."
 Band of H.M. Coldstream Guards, "The Geisha" (Jones).
 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).
 Symphony Orchestra, "La Vida Breve" (de Falla).
 Marek Weber's Orchestra, "Coeur Brise" (Gillet).
 Salon Orchestra, "Chanson Boheme" (Baldi).
 Marimba Band, "Aguas Dormides" (Bolanos).
 Band of H.M. Coldstream Guards, "The Belle of New York" (Kerker).
 7.0: News session.
 7.30: Talk—Mr. N. M. Bell, M.A., B.D., "Esperanto."
 8.0: Chimes. Band programme by Christchurch Municipal Band (J. Noble, Conductor) and assisting 3YA artists. March—Band, "On the Quarter Deck" (Alford); waltz, "Birds of Paradise" (Rimmer).
 8.13: Bass—Mr. Sydney Hood, "A Sailor's Paradise" (Richards).
 8.17: Accordeon—Medard Ferrero, (a) "Torrent" (Capitani); (b) "A Rare Bird" (Damarie).
 8.23: Mezzo-contralto—Mrs. Nellie Whitworth, (a) "The Bells of St. John" (Mallinson); (b) "The Nightingales"; (c) "Two Roses" (Gilberte).
 8.29: Xylophone—Franz Kruger, (a) "American Patrol" (Meacham); (b) "Hungarian Airs" (Kruger).
 8.35: Selection—Band, "The Talsman" (Balfe).
 Piano—Miss Agnes H. E. Scott, "Liebestraum No. 3" (Liszt); "Country Gardens" (Grainger).
 8.45: Tenor—Mr. Adam S. Mitchell, (a) "Serenade" (Schubert); (b) "The Lotus Flower" (Schumann).
 8.51: Hawaiian—Queenie and David Kailli, "Keep a Song in Your Heart."
 8.55: Suite—Band, "Mignonne" (Beethoven).
 9.3: Weather forecast and station notices.
 9.20: Balalaika Orchestra, Gorskaja, (a) "Stand Ein Birken-Baum"; (b) "An Der Weiga Mutterchen" (Traditional).
 9.24: Bass—Mr. Sydney Hood, (a) "A Song of the North Wind" (Head); (b) "The Diver" (McMillan).
 Piano—Miss Agnes H. E. Scott, "The Music Box" (Leybach); "Kitten on the Keys" (Confrey).
 9.31: Indian intermezzo—Band, "Silver Bell" (Wenrich).
 9.37: Mezzo-contralto—Mrs. N. Whitworth, (a) "Sunshine and Shadow" (Hampson); (b) "The Promise of Life" (Cowen).
 9.43: Banjo—Ernest Jones, (a) "Return of the Regiment." (b) "The Kilties."
 9.49: Tenor—Mr. Adam S. Mitchell, "An Evening Song" (Blumenthal).
 9.53: Foxtrot—Band, "Just You! Just Me!" (Greer); march, "King Peg."
 10.5: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, MAY 18.

- 3.0: Selected recordings.
 5.0: Children's hour, conducted by "Big Brother Bill."
 6.0: Dinner music session.
 Berlin State Opera House Orchestra, "Cosi Fan Tutte" Overture.
 Efm Schachmeister's Dance Orchestra, "Second Waltz Medley."
 Symphony Orchestra, "Frasquita" Medley (Lehar).
 Paul Godwin's Orchestra, "First Love" (Michiels).
 Symphony Orchestra, "The Last Waltz" Medley (Oscar Strauss).
 Paul Godwin's Orchestra, "Cinderella's Bridal Procession" (Dicker).
 Symphony Orchestra, "Eva" Medley (Lehar); "The Forester's Daughter."
 Paul Godwin's Orchestra, "Lake of Como" (Galos); "Throbbing Heart."

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AUCKLAND

CHRISTCHURCH

WELLINGTON.

- 7.0 : News session.
 7.30 : Talk—Mr. J. G. Jeffries, Vice-President of the Dunedin Manufacturers' Association, "Made in New Zealand Week."
 8.0 : Chimes. Specially recorded international programme.
 Dr. Eugene Ormandy and His Salon Orchestra.
 International Singers Male Quartet.
 Ambassadors of Melodyland.
 Abroad with the Lockharts.
 Weather report.
 International talk—Sir James Allen, "Organisations that are Working for International Goodwill."
 Hy-Wyde and Handsome.
 Nat Brusiloff and His Lido Venice Orchestra
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, MAY 18.

8.0 to 10.0 p.m.: Concert programme.

Tuesday, May 19

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, MAY 19.

- 8.0 : Selected recordings.
 8.15 : Talk—Mrs. Leslie Crane, "Beauty of Mind and Body in Relation to Diet."
 9.0 : Children's session, conducted by "Uncle Dave."
 9.0 : Dinner music session.
 Military Band, "Ever or Never" (Waldteufel).
 Sir Hamilton Harty, conducting the Halle Orchestra, "An Irish Symphony" Scherzo (Sir Hamilton Harty).
 New Concert Orchestra, "Life in Vienna" (Karl Komzak).
 Military Band, "The Guards' Patrol" (Williams).
 Dinicu and His Orchestra, "Crepuscule Tango" (Blanco).
 Salon Orchestra, "Mem'ries" (Neely-Sanford).
 J. H. Squire's Celeste Octet, "Traume" (Wagner—arr. Willoughby).
 London Symphony Orchestra, "Marching Song" (Gustav Holst).
 J. H. Squire's Celeste Octet, "Albumblatt" (Wagner—arr. Willoughby).
 The Elite Dance Orchestra, "In Einer Konditorei" Tango (Raymond).
 Regimental Band of H.M. Grenadier Guards, "Sylvia Ballet" (Delibes—arr. Kappey): (a) "Valse Lente," (b) "Pizzicato," (c) "Barcarolle," (d) "March."
 Halle Orchestra, "Londonderry Air" (Hamilton Harty).
 7.0 : News and market reports.
 7.40 : Talk—Mr. N. M. Richmond, B.A., Director of the W.E.A., "Art in Everyday Life."
 8.0 : Chimes. Selection—Reg. Morgan and His Orchestra, "Enfant Prodigue."
 8.8 : Baritone—Mr. A. B. Thompson, (a) "Winter" (Gardiner); (b) "Song of a Smile" (Martin).
 8.14 : Instrumental—Miss Maida Hooker and Mr. Haydn Murray, "Sonata for Piano and Violin, Op. 8" (Grieg): 1st. Movement "Allegro Con Brio."
 Mezzo-soprano—Miss Berta Carr, (a) "Song of the Open" (La Forge); (b) "Ich Grolle Nicht" (Schumann); (c) "On the Wings of Song."
 Instrumental—Miss Maida Hooker and Mr. Haydn Murray, "Sonata for Piano and Violin, Op. 8" (Grieg): 2nd Movement "Allegretto Quasi Andantino"; 3rd Movement "Allegro Molto Vivace."
 8.45 : Chorus—State Opera Chorus, Berlin, (a) "A Night in Granada" (Kreutzer); (b) "Hail to the Day" (from "Fidelio") (Beethoven).
 8.51 : Selections—Reg. Morgan and His Orchestra, (a) "My Heart at Thy Sweet Voice" (Saint-Saens); (b) "Liebesleid" (Kreisler);
 9.0 : Evening weather forecast and announcements.
 9.2 : Male choir—Erk's Male Chorus, "The Night" (Schubert).
 9.6 : Selections—Reg. Morgan and His Orchestra, (a) "Serenade" (Drdia); (b) "Dreamily Drifting" (Rolfe); (c) "Dance of the Wood Nymphs" (Kussner).
 9.19 : Baritone—Mr. A. B. Thompson, (a) "Sunday" (Brahms); (b) "Serenade" (Brahms).
 9.25 : Cornet and trombone—J. Mackintosh and Jesse Stamp, (a) "Barcarolle" (from "Tales of Hoffman"; Offenbach); (b) "Miserere" (from "Il Trovatore"; Verdi).
 9.31 : Programme of dance music by Reg. Morgan and His Orchestra.
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, MAY 19.

- 10.0 : Chimes. Selected gramophone recordings.
 11.0 : Miscellaneous.
 12.0 : Lunch hour music.
 2.0 : Educational session.
 3.0 : Selected gramophone recordings.
 3.15 : Lecture—Mrs. T. W. Lewis, "Fabrics and Fashions."
 3.30 and 4.30 : Sporting results to hand.
 5.0 : Children's session, conducted by "Uncle Toby" and "Jumbo."
 6.0 : Dinner music session.
 Royal Opera Orchestra, "Praeludium" (Jarnefeldt).
 Waltz—Royal Opera Orchestra, "Eugin Onegin" (Tschaiakowsky).
 Balalaika Orchestra, "Shining Moon" (Russian folk song).
 Vienna Philharmonic Orchestra, "Morning, Noon and Night in Vienna."

- Paul Whiteman's Orchestra, "Suite of Serenades" (Herbert): (1) Spanish; (2) Chinese; (3) Cuban; (4) Oriental.
 Philadelphia Symphony Orchestra, "Tales From the Vienna Woods."
 Berlin State Opera Orchestra, "German Dances" (Mozart).
 Royal Opera Orchestra, "Berceuse" (Jarnefeldt).
 San Francisco Symphony Orchestra, (a) "Serenade" (Volkman); (b) "Flight of the Bumble Bee" (Rimsky-Korsakov).
 Chicago Symphony Orchestra, (a) "Valse Triste" (Sibelius); (b) "Funeral March of the Marionette" (Gounod).
 San Francisco Symphony Orchestra, "Marche Militaire" (Schubert).
 7.0 : News session, market reports and sports results.
 7.40 : Lecture by a Representative of the Agricultural Department, "For the Man on the Land."
 8.0 : Chimes.
 Overture—Salon Orchestra (Conductor Mr. M. T. Dixon) "Maid of the East" (Neale).
 8.16 : One Act Comedy—"Fortune Favours Fools" (Overton). Cast of Characters.—Edward Gilroy (A country gentleman of some means), Mr. Hedley Aitken; Grace Gilroy (His town-bred wife), Miss Thelma Aitken. 'Enery 'Erbert 'iggins (Their servant), Mr. Norman Aitken. Scene—Breakfast room in Abbey Hall, the residence of Mr. Gilroy. Play arranged and produced by Norman Aitken.
 8.46 : Waltz—Salon Orchestra, "Magic of Love" (Vanis): Selection, "Nautical Scenes" (Fletcher).
 9.0 : Weather report and station notices.
 9.2 : Selection—Berlin Mandolin and Lute Orchestra, "Santiago."
 9.5 : Lyric Tenor—Mr. Richard Maunder with violin obligato, (a) "Evening Song" (Blumenthal); (b) "Ah! Sweet Mystery of Life."
 9.11 : Piano recital with introductory comments—Mr. Sydney Francis Hoben, Royal Conservatorium of Music, Leipzig, (a) "Hark! Hark! The Lark" (Schubert-Liszt); (b) "Barcarolle" from "Tales of Hoffman" (Offenbach-Moszkowski); (c) "Turkey in the Straw."
 9.27 : Male Septett—Iwan Wassiljeff Septett, (a) "Siberian Convict's Song" (trdli.); (b) "Grandfather Pachom" (Russian).
 9.33 : Accordeon—Michel Haling, (a) "La Mitrailleuse" (Haling); (b) "Myra Valse" (Haling).
 9.39 : Lyric tenor—Mr. Richard Maunder, (a) "The Irish Immigrant"; (b) "The Low-Backed Car" (trdli.).
 9.46 : Bell solo with orchestra—Mr. L. W. Probert and Salon Orchestra, "Cloches De St. Malo" (Rimmer).
 Novelty Suite—Salon Orchestra, "Doll's House" (Englemann).
 Instrumental—Salon Orchestra, "Latest Dance Novelties."
 10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, MAY 19.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, MAY 19.

- 3.0 : Selected recordings.
 5.0 : Children's hour, conducted by "Big Brother Bill."
 6.0 : Dinner music session.
 Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of Bacchus" (Delibes).
 New Light Symphony Orchestra, "Scene De Ballet Marionettes."
 Royal Opera Orchestra, "The Sleeping Beauty" panorama.
 National Symphony Orchestra, "Irish Rhapsody" (Herbert).
 Trio—Fritz and Hugo Kreisler, Michael Rauchenhausen, "Sanctissima."
 National Symphony Orchestra, "Orpheus in Hades" overture.
 Royal Opera Orchestra, "Shepherd Fennel's Dance."
 Zonophone Salon Orchestra, "Narcissus" (Nevin).
 National Military Band, "Lohengrin" prelude (Wagner).
 New Light Symphony Orchestra, "Persiflage" (Francis).
 Trio—Fritz and Hugo Kreisler, Michael Rauchenhausen, "Arliesienne Intermezzo" (Bizet, arr. Kreisler).
 La Scala Orchestra, "The Secret of Susanna" Overture.
 7.0 : News session.
 7.40 : Talk—Mr. A. Salmond, "Prospects of Education in England."
 8.0 : Chimes. Studio presentation by the Dunedin Tramways Band, under the direction of Mr. Chas. T. Morgan, and assisted by 4YA artists.
 March—Band, "Spin Along" (Southwell): Serenade, "Serenata."
 8.9 : Quartets—The Majors, (a) "Here's a Health Unto His Majesty" (Saville); (b) "How Beautiful is This Night" (Fletcher).
 8.16 : Two pianos—Wm. Gross and Walter Kauffmann, "Shimmy and Tango" (from "Baby in the Bar") (Gross).
 8.22 : Scots Humour—Mr. James A. Paterson, "The Railway Guard."
 8.26 : Descriptive Selection—Band, "By the Swanee River" (Myddleton).
 8.35 : Contralto—Miss G. Burt, "The Nightingale" (Whishaw).
 8.38 : Piano—Mrs. C. Drake, "Concert Etude" (Liszt).
 8.43 : Quartet—The Majors, "Now is the Month of Maying" (Morley).
 8.46 : Popular Melodies—Band, (a) "Should I?" (Brown); (b) "Dancing With Tears in My Eyes" (arrgd. Hume).
 8.54 : Cello—Edmund Kurtz, "Valse Caprice" (Werkmeister).
 8.57 : Bass—Mr. L. M. Cachemaille, "Rich Love" (Goldstein).
 9.0 : Weather report and station notices.
 9.2 : Overture—Band, "Nabucodonosor" (Verdi).
 9.11 : Quartet—The Majors, "Dear Harp of My Country."
 9.15 : Saxophone—Rene Dumont, (a) "Saxophobia" (Wiedoeft); (b) "Nola" (Arndt).
 9.21 : Air Varie—Band, "Scenes That Are Brightest" (Wallace).
 9.28 : Soprano—Miss Freda Elmes, (a) "A Song of Sunshine" (Thomas); (b) "The Reason" (Del Riego).

- 9.33: Humour—Amos and Andy, "Is Everybody in Your Family Dumb?"
 9.39: Waltz—Band, "Beautiful Blue Danube" (Strauss).
 9.46: Quartet—The Majors, "The Lost Chord" (Sullivan).
 9.49: Zither—Karl Pühringer, "Cheer Up" (Ziehrer).
 9.52: Scots Humour—Mr. James A. Paterson, (a) "I'm Ninety-Four This Morning"; (b) "I Love Ma Mary" (Fyffe).
 9.56: March—Band, "North Star" (Rimmer).
 10.2: God save the King.

Wednesday, May 20

1YA, AUCKLAND (980 KILOCYCLES)—WEDNESDAY, MAY 20.

- 12.30: Relay of Community Singing from the Auckland Town Hall.
 3.0: Selected recordings.
 3.15: Literary selection.
 5.0: Children's session, conducted by "Uncle Reg."
 6.0: Dinner music session.
 New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai);
 Marek Weber's Orchestra, "Moonlight on the Alster" (Petras).
 Cedric Sharpe Sextet, "Chanson Napolitaine" (D'Ambrosio).
 New Light Symphony Orchestra, "Hearts and Flowers" (Tobani).
 Marek Weber's Orchestra, "Wine, Women and Song" (Weber).
 Organ—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey).
 Cedric Sharpe Sextet, "O Lovely Night" (Ronald).
 New Light Symphony Orchestra, "The Glow-worm Idyll" (Lincke).
 Victor Salon Orchestra, "Indian Love Call" (from "Rose Marie" (Friml); "The World is Waiting for the Sunrise" (Lockhart).
 De Groot and His Orchestra, "When Summer is Gone" (Harrison-Wilhite); "The Merry Widow" (Lehar).
 Organ solos—Reginald Foort, (a) "Leave Me Alone"; (b) "Songs My Mother Taught Me" (Dvorak).
 Vienna Schrammel Quartet, "Roguish Eyes" (Uschmann).
 7.0: News and market reports.
 7.30: Official opening of the Radio Exhibition.
 8.0: Chimes. From the Model Studio at the Auckland Radio Exhibition.
 Choral—1YA Broadcasting Choir and Orchestral Octet, "Hymn to Music" (Buck).
 Soprano and chorus—Miss Chrissie Foster and 1YA Broadcasting Choir, "Follow On" (from "The Belle of New York"; Kerker).
 Piano—Mr. Cyril Towsey, "Phantasy Impromptu" (Chopin).
 Broadcasting Choir, "Boat Song" (Cowen).

- Gavotte—The Orchestral Octet, Gavotte from "Der Lehemann."
 8.20: Selected recordings from the studio.
 Accordeon—Medard Ferrero, (a) "Czardas" (Monti); (b) "Hungarian Dance No. 5" (Brahms).
 Band—Polydor Wind Orchestra, "Castaldo March" (Novacek).
 From the Model Studio at the Auckland Radio Exhibition.
 One-act play—Zoe Bartley Baxter and Company, "The Price" (George de Clive Lowe. Produced by Zoe Bartley-Baxter).
 8.50: Selected recordings from the studio.
 Berlin State Opera Orchestra, "Der Rosenkavalier" (O. Strauss).
 Violin—H. Solloway, "Valse Bluette" (Drigo—arr. Auer).
 9.0: From the Model Studio.
 Evening weather forecast and announcements.
 Balalaika—Mr. Simon Philipoff, (a) "Second Hungarian Rhapsody" (Liszt); (b) "Shining Moon" (Arr. Philipoff).
 Boy soprano—Master Desmond Casey, (a) "Country Folk" (Brahe); (b) "I Know a Lovely Garden" (D'Hardelot).
 Novelty entertainment—Ernest and Wendy, "Merry Moments at the Piano" (arr. Luks).
 9.20: Selected recordings from the studio.
 Cello—Hans Bottermund, (a) "Serenade" (Leoncavallo); (b) "At the Fountain" (Davidoff).
 Band—Polydor Wind Orchestra, "D'Banda Kommt" (Schild).
 9.30: From the Model Studio.
 Choral—1YA Broadcasting Choir and Orchestral Octet, "Ao-te-roa."
 Baritone—Mr. H. Barry Coney, (a) "If I Were" (Richards); (b) "The Wolf" (Shield).
 Selection—Orchestral Octet, "Minuetto in E Flat" (Mozart).
 Choral—1YA Broadcasting Choir, "O Peaceful Night" (German).
 9.50: Selected recordings from the studio.
 Plaza Theatre Orchestra, "Three Bears" (Coates).
 Violin—H. Solloway, "Caprice No. 1" (Vecsez).
 From the Model Studio.
 10.0: Selection—The Orchestral Octet, "Petite Suite Moderne" (Rosse).
 Tenor—Mr. Syd. Poffley, (a) "Lolita" (Buzzi-Peccia); (b) "My Dreams" (Tosti).
 March—The Orchestral Octet, "The Arbitrator" (Lambert).
 Selected recordings from the studio.
 10.20: Chorus—Parlophone Musical Comedy Company, "Viennese Nights."
 Band—H.M. Grenadier Guards, "Radio Quick March" (Pecking).
 10.30: God save the King.

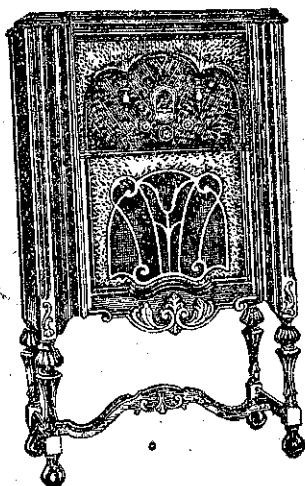
2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, MAY 20.

- 10.0: Chimes. Selected gramophone recordings.
 11.0: Miscellaneous.
 12.0: Lunch hour music.
 2.0: Miscellaneous.
 3.0: Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by "Aunt Daisy."
 6.0: Dinner music session.
 Great Symphony Orchestra, "A Rendezvous with Lehar" (arr. Hruby).
 Marek Weber and His Adlon Orchestra, "Lettre a Armand" (Haagman).
 Paul Godwin Orchestra, "Serenata" (Clement).
 Philharmonic Orchestra, "Mouranthe" Overture (Weber).
 Edm Schachmeister Orchestra, "Gipsy's Farewell" (Traditional).
 Philharmonic Orchestra, Berlin, "Tannhauser Grand March" (Wagner).
 Marek Weber and His Adlon Orchestra, "Dreams" (Wagner).
 Paul Godwin Orchestra, "Types Tziganes" (Clement); "Sidelights Medley" (Morena).
 Edm Schachmeister Orchestra, "White Acacia" (Traditional).
 Philharmonic Orchestra, "Prelude to Act 3 Lohengrin" (Wagner).
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mrs. Albert Russell, "The Art of Successful Living—Principles of Success."
 8.0: Chimes. Specially recorded international programme.
 "Golden Hour of Music."
 "Adam and Eve."
 "Ohman and Arden" (two pianos).
 Weather report.
 International talk by Dr. Guy Scholefield, O.B.E.
 "High Spots."
 Nat Brusiloff and His Lido Venice Orchestra.
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, MAY 20.

- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour.
 6.0: Dinner music session.
 Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde); (b) "Mignonette" (Nicholls).
 Dajos Bela Orchestra, "Eldgaffeln" (Landen); "The Grenadier."
 Frank Westfield's Orchestra, "Classica" (arr. Tilsley).
 Dajos Bela Orchestra, "Dancing Demoiselle" (Fall).
 Raie da Costa Ensemble, "Funny Face" (Gershwin).
 Dajos Bela Orchestra, "Polish Life" (Nedbal).
 Edith Lorand Orchestra, "The Dollar Princess" (Fall).

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 Dajos Bela Orchestra, "Electric Girl" (Helmbergh-Holmes); "Casino Tanze" (Gungl).
 7.0 : News session.
 7.30 : Addington Stock Market Reports.
 8.0 : Chimes. Relay of Concert by the Christchurch Orchestral Society from the Radiant Hall. Conductor, Professor Oddone Savini. Leader, Mr. T. B. Riordan.
 Overture—"Mignon" (Thomas).
 8.10 : Intermezzo—"Traviata" (Verdi).
 8.20 : Symphony—"4th Symphony Italian" (Mendelssohn).
 8.45 : Selection—"Invitation to the Waltz" (Weber).
 9.0 : Weather forecast and station notices; also musical recordings from the studio.
 9.9 : Piano and orchestra—Soloiste, Miss Olivé Cooper, "4th Concerto for Piano" (Rubenstein).
 9.44 : Instrumental—Orchestra, "Prelude and Dance" (Savini).
 9.59 : Overture—"Patria" (Bizet).
 10.9 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, MAY 20.

- 8.0 : Selected recordings.
 8.15 : Talk—"First Aid in the Home," arranged by the Home Science Extension Service of Otago University.
 5.0 : Children's hour, conducted by "Big Brother Bill."
 6.0 : Dinner music session:
 Dajos Bela Orchestra, "Pique Dame Fantasia" (Tschaiakowsky).
 Grand Symphony Orchestra, "Polonaise No. 1 in A" (Chopin).
 Dajos Bela Orchestra, "Dynamiden Waltz" (Josef Strauss).
 Grand Symphony Orchestra, "Hungarian Dances" (Brahms).
 Edith Lorand Orchestra, "Myosotis Waltz" (Waldteufel).
 Parlophone Dance Orchestra, "The Skaters" (Waldteufel).
 Brunswick Concert Orchestra, "La Danseuse" (Von Blon).
 Orchestra of the Opera Comique, Paris, "Ballet Egyptien" (Luigini).
 Cello—Gregor Platigorsky, "The Swan" (Saint-Saens).
 Edith Lorand's Orchestra, "The Merry Widow" Selection (Lehar).
 Grand Symphony Orchestra, "Scherzo from Midsummer Night's Dream"
 7.0 : News session.
 7.15 : Talk—Mr. A. C. Cameron, "Marketing."
 8.0 : Chimes. Special presentation by Major F. H. Lampen, assisted by chorus and orchestral effects, in commemoration of the death of Christopher Columbus, May 20, 1506. "Columbus Goes West" (from the time of preparation for the voyage across the Atlantic to the arrival back from the Indies).
 Orchestral motif—"La Paloma" (Yradier).
 Selection—Madrid Symphony Orchestra, "El Sombrero de Tres Picos" (Manuel de Falla): (a) "Los Vecinos," (b) "Danza del Molinero."
 8.12 : Descriptive talk—Major F. H. Lampen, "The Narrative of Columbus": (1) Preparation, including argument between the Queen and Columbus, viz., "The Court Scene."
 8.28 : Selection—Salon Orchestra, (a) "Spanish Dance" (Moszkowski), (b) "La Paloma" (Yradier).
 8.35 : Departure of Columbus:
 Solo and chorus—The Party, "Farewell, Spanish Ladies" (arr. Sharp).
 Selection—Salon Orchestra, (a) "Joselita Tango" (De Bonozi), (b) "Spanish Dance No. 2" (Moszkowski).
 Shanties—The Party, (a) "The Wild Goose Shanty" (arr. Terry), (b) "Good Morning, Ladies, we're Outward Bound for New York Town" (arr. Terry).
 Piano—Mrs. C. Drake, (a) "El Amor Banjo, No. 3" (Manuel de Falla), (b) "Danza Espanolas Andaluza" (Granados).
 Voyage—Talk continues.
 Selection—Salon Orchestra, "Over the Waves" (Rosas).
 9.0 : Weather report and station notices.
 9.2 : Continuation of special presentation "Columbus Goes West."
 Talk: Voyage continues—The mirage of land, and the crew sings.
 Chorus—The Party, "Gloria in Excelsis" (traditional). ("World of waves, a sea without a shore, tractless, and vast, and wild").
 Land Sighted—The Arrival. Continuation of Narrative.
 Selection—Salon Orchestra, "America" (Winterbottom).
 Hymn—The Party, "100th Psalm" (traditional).
 Narrative continues—Return to Spain.
 Shanty—The Party, "Haul Away, Joe" (arr. Terry).
 Narrative continued.
 Cello—Pablo Casals, "Spanish Dance" (Granados).
 Baritone—Mr. W. Ruffell, "Spanish Gold" (Fisher).
 Shanties—The Party, (a) "Reuben Ranzo," (b) "What Shall We Do With a Drunken Sailor?" (arr. Terry).
 Serenade—Salon Orchestra, "La Paloma" (Yradier).
 Narrative concludes with description of arrival back in Spain.
 9.30 : Dance music session:
 Foxtrots—Ben Bernie and His Orchestra, "I'm Yours" (Harburg).
 Jacques Renard and His Orchestra, "Loving You the Way I do" (Scholl).
 Ben Bernie and His Orchestra, "Confessin'" (Nelburg).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Just a Little Dance, Mam'selle" (O'Flynn).
 9.42 : Waltz—Abe Lyman and His California Orchestra, "This is Love."
 Foxtrots—Isham Jones's Orchestra, "Sweet Jennie Lee" (Donaldson).

- Jacques Renard and His Orchestra, "Lucky Seven" (Dietz).
 9.51 : Vocal—Wendell Hall, "Underneath the Mellow Moon" (Hall).
 9.54 : Foxtrots—Ozzie Nelson and His Orchestra, "I Don't Mind Walkin' in the Rain" (Rich).
 Isham Jones's Orchestra, "In My Heart It's You" (O'Flynn).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "I Wonderr How It Feels" (Sherman).
 10.3 : Jacques Renard and His Orchestra, "Sing Something Simple" (Hupfeld); "Can This Be Love?" (James).
 10.9 : Vocal—Jessica Dragonette, "When You're Away" (Blossom).
 10.12 : Foxtrots—Isham Jones's Orchestra, "I'll Be Blue, Just Thinking of You" (Whiting).
 Meyer Davis's Hotel Astor Orchestra, "Looking for the Lovelight in the Dark" (Dubin).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Little White Lies" (Donaldson).
 10.21 : Waltz—Castlewood Marimba Band, "When the Organ Played at Twilight" (Wallace).
 10.24 : Foxtrots—Ozzie Nelson and His Orchestra, "I Still Get a Thrill."
 Meyer Davis's Hotel Astor Orchestra, "As Long as I Have You" (Dubin, Burke).
 Tom Gerun and His Orchestra, "A Big Bouquet for You"
 Vocal—Wendell Hall, "Land of My Sunset Dreams" (Hall).
 10.36 : Foxtrots—Tom Gerun and His Orchestra, "Sing" (Johnson).
 Tom Gerun and His Orchestra, "If I Could Be With You" (Creamer); "Wasting My Love on You" (Leslie).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Sweetheart of My Student Days" (Kahn).
 10.48 : Waltz—Castlewood Marimba Band, "Moonlight on the Colorado."
 10.51 : Emil Coleman and His Orchestra, "I've Got Five Dollars" (Rodgers).
 Loring Nichols and His Orchestra, "You Said It" (Arlen).
 Emil Coleman and His Orchestra, "We'll Be the Same" (Rodgers).
 11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, MAY 20.

- 6.30 to 7.30 p.m.: Children's session.
 7.30 to 8 p.m.: Sports talks.

Thursday, May 21

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, MAY 21.

- 8.0 : Selected recordings.
 8.15 : Talk—"Cutting Down Clothes for the Children," arranged by the Home Science Extension Service of Otago University.
 5.0 : Children's session, conducted by "Peter Pan."
 6.0 : Dinner music session:
 The Philharmonic Orchestra, Berlin, "The Gipsy Baron" (Strauss).
 Heerman Trio, "Pierette" (Chaminade).
 Brunswick Hour Orchestra, "Only a Rose" (Hooker, Friml).
 Symphony Orchestra, "Eva" Medley (Lehar).
 New Light Symphony Orchestra, "Spanish Dance No. 1" (Moszkowski).
 Brunswick Concert Orchestra, "The Perfect Song" (Brell).
 Symphony Orchestra, "Frederick" Medley (Lehar).
 New Light Symphony Orchestra, "Spanish Serenade" (Bizet).
 Brunswick Concert Orchestra, "Sylvia" (Speaks).
 Heerman Trio, "Dalvisa" (Sandby).
 Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger).
 7.0 : News and market reports.
 7.40 : Talk, under the auspices of the New Zealand Manufacturers' Association, "Production of Clothing from Mill to Wearer."
 8.0 : Chimes. Special programme from the model studio at the Auckland Radio Exhibition.
 Orchestral—Orchestral Octet, under the direction of Mr. Harold Baxter, Ballet Music from "William Tell" (Rossini).
 Tenor—Mr. Arthur Ripley, (a) "Mavis" (Oraxton), (b) "O Vision Entrancing" (Thomas).
 Instrumental—Barry Ingall's Hawaiian Quartet, (a) "Aloha Chimes" (Elmer), (b) "Song of the Islands" (King).
 From the Studio:
 8.22 : Novelty orchestra—London Novelty Orchestra, "Happy Darkies" Barn Dance (Godfrey).
 Male quartet—Brevities Quartet, (a) "The Woman in the Shoe" (Brown), (b) "Wrapped in a Red, Red Rose" (Hanley).
 From the Radio Exhibition:
 8.32 : Xylophone and piano—Mr. Eric F. B. Waters and Mr. Ray Jury, (a) "Kitten on the Keys" (Confrey), (b) "Bolero" (Spanish Dance) (Lowski), (c) "Rainbow Ripples" (Green).
 Mr. Dan Flood, "Humour."
 Novelty—The Orchestral Octet, "The Ragtime Bass Player" (Lottery).
 From the Studio:
 8.51 : Organ—Leo Stin, (a) "Berceuse de Jocelyn" (Godard), (b) "Le Petit Quin Quin" (Dessousseaux).
 Saxophone—Feith and Kleith, "Souvenir" (Zakrgefsky).
 From the Radio Exhibition:
 9.1 : Evening weather forecast and announcements.
 9.3 : Instrumental trios—The Moore Sisters, (a) "Minuet" (Borresen), (b) "By the Waters of Minnetonka" (Lieurance), (c) "Hungarian Dance" (Brahms).

Popular songs—Miss Eileen Smithson, song in character, "The Blind Boy" (Moore); popular song, "I Am the Words and You are the Melody" (from "Just Imagine"—De Silva).

From the Studio:

- 9.20: Balalaika Orchestra, Gorskaja, "Das Bachelin" (traditional).
Mississippi Chorus, "Show Boat" vocal gems (Kern).

From the Radio Exhibition:

- 9.30: Waltz—The Orchestral Octet, "Cagliostro" (Strauss).
Contralto—Miss Phyllis Gribbier, (a) "Charming Chloe" (German).
(b) "Wind on the Wheat" (Phillips).
English concertina—Mr. Robert McKnight, (a) Fantasia on "The Last Rose of Summer" (arr. Farmer), (b) "The Lion's Bride" (Price).

From the Studio:

- 9.50: Fluck's Orchestra, "Gaiety Echoes" (Monckton).
Saxophone—Rene Dumont, "Saxophobia" (Wiedoeft).
From the Radio Exhibition:
10.0: Instrumental—Barry Ingall's Hawaiian Quartet, "Lament of the Southern Seas" (arr. Ingall).
Tenor banjo—Mr. Norman Ingall, "Take Your Pick" (Mandell).
Instrumental—Barry Ingall's Hawaiian Quartet, "Aloha March."
Baritone—Mr. Reginald Morgan, (a) "From the Land of the Sky-Blue Water" (Cadman), (b) "Pale Moon" (Logan).
Morceau—The Orchestral Octet, "The Bells of St. Stephens" (Wottitz);
March, "Revue" (Czibulka).

From the Studio:

- 10.20: Chorus—Columbia Light Opera Company, "Merry Widow" vocal gems
London Novelty Orchestra, "Brooklyn Cake-Walk" (Thurban).
10.30: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, MAY 21.

10 a.m.: Chimes. Selected gramophone recordings.

11 a.m.: Miscellaneous.

12 noon: Lunch hour music.

2.0: Miscellaneous.

3.0: Selected gramophone recordings.

3.15: Lecturette—Miss I. F. Meadows, "Cutting Down Clothes for the Children," 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"

8.0: Dinner music session:

- New Mayfair Orchestra, "Sally" Selection (Kern).
Organ—Sandy Macpherson, "L'Heure Bleu" (Spolianski).
New Mayfair Dance Orchestra, "Hungarian Medley" (arr. Somers).
Paul Whiteman and His Concert Orchestra, "Midnight Reflections."
Zonophone Salon Orchestra, "Sweet Adeline" (Armstrong).
Paul Whiteman and His Concert Orchestra, "Soliloquy" (Bloom).
Band of H.M. Coldstream Guards, "Florodora" Selection (Stuart).
Organ—Sandy Macpherson, "In An Old-World Garden" (Pepper).
Zonophone Salon Orchestra, "In the Shadows" (Finck).
Jack Hylton and His Orchestra, "Memories of Paris" (Padilla).
New Mayfair Dance Orchestra, "Waltz Medley."
The London Palladium Orchestra, "Nautical Moments" (arr. Winter).

7.0: News session, market reports and sports results.

7.40: Lecturette—Mr. W. B. Priestley, "Modern Ballroom Dancing."

8.0: Chimes. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon),
"Squire's Popular Songs" (arr. Baynes).

8.9: Tenor—Mr. Edgar Swain, with violin obligato, (a) "Here's to Love" (Rubens), (b) "In the Garden of To-morrow" (Deppen).

8.16: Male choir—Ural Cossacks, "Russian Medley" (Sorokin).

8.24: Suite for piano and strings—Mr. M. T. Dixon and Salon Orchestra.
"Four Characteristic Waltzes" (Coleridge-Taylor).

8.32: Entertainers—Mr. and Mrs. Albert Russell, (a) "Oh! Oh! Monkey" (B.A. Ape), (b) "Out on the Rocks" (Dalby), (c) "What Nots,"
(d) "Everybody Wish" (Powell).

8.47: Duet—Miss Mabel Dyer and Mr. Edgar Swain, "Venetian Song" (Tosti).

8.51: Clarinet with orchestra—Mr. H. Langtry and Salon Orchestra, "Concertino" (Weber).

9.0: Evening weather report and station notices.

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

9.8: Contralto—Miss Mabel Dyer with violin obligato, (a) "Smilin' Through" (Penn), (b) "Cradle Me Low" (Brahe), (c) "Heart of Gold" (Manney).

9.15: Organ—Reg. Foort, "In the Heart of the Sunset" (Nicholls).

9.18: Selection—Salon Orchestra, "My Son John" (Strauss).

9.26: Entertainers—Mr. and Mrs. Albert Russell, (a) "McNamara's Band" (O'Connor), (b) "Kinky Head" (Silverman), (c) "What Nots,"
(d) "In Our Bungalow" (McGill).

9.41: Banjo—Harry Reser, (a) "Cracker Jack" (Reser), (b) "Flapperette."

9.48: Fantasia—Salon Orchestra, "Glory of Russia" (Krein).

10.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, MAY 21.

3.0: Gramophone recital.

4.25: Sports results.

5.0: Children's hour.

6.0: Dinner music session:

Paul Godwin Orchestra, "From Heidelberg to Barcelona" (Borchert).

Paul Godwin Quintet, "Minuetto" (Bolzoni).

Paul Godwin Orchestra, "Hearts and Flowers" (Tobani).

Marek Weber and His Hotel Adlon Orchestra, "Under the Old Lime Tree" (Hugo Felix).

Paul Godwin and Kunstler Ensemble, "Potpourri of German Folk Songs" (arr. Hannemann).

Paul Godwin Quintet, "Dolls' Minuet" (Blon).

Paul Godwin Orchestra, "The Merry Peasant" (Fall-Leon).

Marek Weber and His Hotel Adlon Orchestra, "Extase" (Ganne).

Paul Godwin Orchestra, "Sleeping Beauty's Bridal Trip" (Max Rhode).
"The Count of Luxembourg" (Lehar).

7.0: News session.

7.30: Talk under the auspices of the Forestry League, Mr. F. E. Hutchinson,
B.Sc., F., "Forestry."

8.0: Chimes. Overture—Lucerne Lursaal Orchestra, "Orpheus in Hades."

8.8: Bass—Mr. Finlay Robb, (a) "Heracitus" (Stanford), (b) "Lovely Kind and Kindly Loving" (Gustav Holst).

8.14: Instrumental—Studio Octet (Conductor Harold Beck), "Carnival" Overture (Beck).

8.24: Mezzo-soprano—Mrs. K. J. Greene, "Hungarian Folk Songs" (in Hungarian), (a) "Het Csillagbol" (folk song), (b) "Biro Uram" (Lor and Frater), (c) "Kek Nefelets" (folk song).

8.28: Instrumental—Studio Octet, (a) "Minuet from G Minor Symphony" (Mozart), (b) "Valse Triste" (Sibelius).

8.36: Tenor—Mr. J. Haydn Williams, (a) "An Eriskay Love Lilt" (Kennedy Fraser), (b) "If I Might Only Come to You" (Squire).

8.40: Quintet—Studio Players, "Minuet" (Beethoven).

8.44: Contralto and orchestra—Mrs. S. M. Williamson and Studio Octet,
"Angus McDonald" (Roeckel).

8.48: Bass—Mr. Finlay Robb, "Se Il Vigor" (La Juive) (Halevy), (b) "Ah, Weep No More" (Tschalkowsky).

8.54: Instrumental—Studio Octet, Four Pieces (Bach): (a) "Gavotte," (b) "Bouree," (c) "Air," (d) "Gigue."

9.6: Weather forecast and station notices.

9.8: Mezzo-soprano—Mrs. K. J. Greene, Hungarian folk songs sung in Hungarian: (a) "Exert a Legemjert," (b) "A Mi Hazunk," (c) "Kis Madar" (folk song).

9.14: Piano—Lily Dymont, "The Juggler" (Toch).

9.17: Tenor—Mr. J. Haydn Williams, "Ah, Moon of My Delight" (Lehmann).

9.22: Contralto with orchestra—Mrs. S. M. Williamson and Studio Octet,
(a) "The Second Minuet" (Besly), (b) "A Perfect Day" (Bond).

9.30: Dance music session:

Foxtrots—Hal Kemp and His Orchestra, "Medley of Southern College Songs, Part 1."

Anglo-Persians, "Madrid" (Mattullath).

Hal Kemp and His Orchestra, "Medley of Southern College Songs, Part 2."

Waltz—Carter's Orchestra, "Wednesday Night Waltz" (Williams).

9.42: Lloyd Huntley and His Isle o' Blues Orchestra, "Lonely" (Grey).
Ben Bernie and His Orchestra, "I Still Belong to You."

Lloyd Huntley and His Isle o' Blues Orchestra, "Gee, But I'd Like to Make You Happy" (Shay).

9.51: Vocal—Chester Gaylord, "What's the Use?" (Jones).

9.54: Foxtrots—Phil Spitalny's Music, "Maybe It's Love" (Mitchell).

Anglo-Persians, "Siboney" (Morse).
Tom Clines and His Music, "Why Have You Forgotten Wai-kiki?" (Kahn).

Phil Spitalny's Music, "Beyond the Blue Horizon" (Robin).

10.6: Vocal duet—Cotton and Morpheus, "Never Swat a Fly" (De Silva).

10.9: Foxtrots—Six Jumping Jacks, "You're Simply Delish" (Freed).
Jacques Renard and His Orchestra, "Readin', Ritin', Rhythm" (Hartman).

Six Jumping Jacks, "It's a Great Life" (Robin).

10.18: Waltzes—Bob Haring and His Orchestra, "One Love" (Koehler).
Castlewood Marimba Band, "Song of the Islands" (King).

10.24: Foxtrots—Jacques Renard and His Orchestra, "If I Knew You better."
Tom Gerun and His Orchestra, "What a Fool I've Been."

Bob Haring and His Orchestra, "Baby's Birthday Party."
Castlewood Marimba Band, "Drifting and Dreaming."

10.36: Vocal—Chester Gaylord, "I'll Be Blue Just Thinking of You" (Whiting).

10.39: Foxtrots—Tom Clines and His Music, "Passing Time With Me" (Hill).
Meyer Davis's Hotel Astor Orchestra, "It Seems to be Spring" (Marion).

Tom Clines and His Music, "What's the Use of Living Without Love?" (McCarthy).

Waltz—Carter's Orchestra, "The Waltz of the Hills" (Fields).

10.51: Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Wond'ring"
Ben Bernie and His Orchestra, "You Are the Melody."

Tom Gerun and His Orchestra, "After All, You're All I'm After" (Newman).

11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, MAY 21.

SILENT DAY.

Friday, May 22

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, MAY 22.

8.0: Selected recordings.

3.15: Literary selection.

5.0 : Children's session, conducted by "Nod" and "Aunt Jean."

6.0 : Dinner music session:
Paul Godwin's Orchestra, "Through Weber's Enchanted Woods" (Ernst Urbach); "Mignon" Entr'acte Gavotte (Thomas); "Firefly's Idyl" (P. Lincke); "Dance of the Dervishes" (Bendix); "Third Waltz Medley" (Robrecht).

Members of the State Opera Orchestra, Berlin, "Don Pasquale."
Paul Godwin's Orchestra, "Suite Algerienne" (Saint-Saens).
Symphony Orchestra, "Homage March" (Grieg).
Vienna Schrammel Quartet, "Firefly's Appointment" (Ludwig Siede).
Polydor Brass Band Orchestra, "Il Trovatore" (Verdi).
Great Symphony Orchestra, "Paying a Visit to Millocker" (Morena).

7.0 : News and market reports.

8.0 : Chimes. Special programme from the Model Studio at the Auckland Radio Exhibition.

Waltz—Orchestral Octet, under the direction of Mr. Harold Baxter, "Wiener Blut" (Strauss).
Vocal—The New Clarion Quartet, "Cornfield Medley" (arr. Clarions).
Contralto—Miss Beryl Smith, "I Hid My Love" (D'Hardelet).
Vocal—The New Clarion Quartet, "An Evening Pastorale" (Shaw).
Piano—Mr. Eric C. L. Bell, (a) "Prelude in D Flat" (Chopin), (b) "Country Gardens" (Grainger).

From the Studio:

8.20: Male septet—Ivan Wassiljeff Septet, "Volga Boat Song" (Glazounoff).
Banjo and guitar—Brothers Bertini, (a) "Wedding Chimes," (b) "Medley of Stephen Foster Songs" (Foster).

From the Radio Exhibition:

8.30: Soprano—Mrs. Laetitia Parry, (a) "Open Thy Blue Eyes" (Massenet), (b) "Mignon" (D'Hardelet).

Selection—Orchestral Octet, "The Rose Girl" (Goetze).
Humorous Sketch—Mr. Zante Wood, "The Melodrama" (Pawle).

From 1YA Studio:

8.50: Polydor Brass Band, "Graham Paige Legion" (Pryer).
Accordeon—Rene Leroux and His Bal Musette Orchestra, (a) "During the Dance" (Olivier), (b) "They Don't Have It" (Crayssac).

From the Radio Exhibition:

9.0 : Evening weather forecast and announcements.
Novelty—Mr. Hilton Black and Miss Alice Bennetto, "Pierrot Phantasy"
Instrumental—Bert Kingsland's Saxophone Quartets, (a) "Love in Idleness" (MacBeth), (b) "Break'n Sax" (Finder).

From the Studio:

9.20: Edith Lorand Orchestra, "The Vagabond King" (Friml).
Male Septet—Ivan Wassiljeff Septet, "Die Bruder" (traditional).

From the Radio Exhibition:

9.30: Piano—Mr. Eric C. L. Bell, (a) "Romance in D Flat" (Sibelius), (b) "Little Bird" (Grieg).

Vocal—Miss Lillian Woods and Mr. Lambert Harvey, "In a Gondola."

Bass—Mr. Duncan Black, "Mending Roadways" (Coates).

Vocal—The New Clarion Quartet, "Scotch Mixtures" (arr. Black).

Reverie—The Orchestral Octet, "Mon Plaisir" (Roberts).

From the Studio:

9.50: Chorus—The Roosters, "Army Reminiscences" (Merriman).
Polka—Four Provinces Orchestra, "Leather Away With the Wattle O"

From the Radio Exhibition:

10.0 : Instrumental—Bert Kingsland's Saxophone Quartets, (a) "Humoresque" (Dvorak), (b) "Smiles and Chuckles" (Klickmann).
Tenor—Mr. Ralph H. Eskridge, (a) "Serenata" (Toselli), (b) "Dolorosa" (Phillips).

Suite—The Orchestral Octet, "Espagnole" (Lacombe): (a) "Los Toros," (b) "La Reja," (c) "La Zarzuela."

From the Studio:

10.20: Dialogue—George Graves and Myles Clifton, "The 'Ole in the Road."
March—"Colonel Bogey" (Alford).

10.30: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, MAY 22.

10.0 : Chimes. Selected gramophone recordings.

11.0 : Miscellaneous.

12.0 : Lunch hour music.

2.0 : Miscellaneous.

3.0 : Selected gramophone recordings.

3.30 and 4.30: Sporting results to hand.

5.0 : Children's session, conducted by "Uncle Jim" and the "Story Book Lady."

6.0 : Dinner music session.

Milan Symphony Orchestra, "Semiramide Overture" (Rossini).

Symphony Orchestra, "Tales from the Vienna Woods" (Strauss).

Herman Finck and His Orchestra, "Old and New" (Potpourri of Popular Melodies; arr. Herman Finck).

Cordoba Philharmonic Orchestra, "Carnival" (Lucena).

Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).

Symphony Orchestra, "Artist's Life" (Strauss).

Milan Symphony Orchestra, "Intermezzo" from "Cavalleria Rusticana."

Cordoba Philharmonic Orchestra, "La Habanera" (Lucena).

Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).

Royal Philharmonic Orchestra, "Blue Danube" (Strauss).

7.0 : News session, market reports and sports results.

7.40: Lecture—Mr. Will Lawson, "Impressions of the Far East."

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—2YA Orchestra (Conductor, Signor A. P. Truda), "The Spartan" (Barnard).

8.10: Bass—Mr. E. H. Jones, (a) "A Son of the Desert am I" (Phillips); (b) "O Mother Mine" (Hardy).

8.16: Novelty instrumental—Harmony Four, (a) "Beneath Thy Window" (Capua); (b) "Down in Dreamy Honolulu" (Pearce and Roslyn); (c) "She's a Ukulele Lady" (Whiting).

8.24: Contralto—Miss Mary Bald, with orchestral accompaniment, (a) "I Pitch My Lonely Caravan" (Coates); (b) "A Song Remembered" (Coates); (c) "Slave Song" (Del Riego).

8.33: Piano—Miss Ellis Gilders, "Romance" (Sibelius).

8.39: Bass—Mr. E. H. Jones, (a) "Bells of the Sea" (Solman); (b) "My Little Welsh Home" (Williams).

8.45: Selection—2YA Orchestra, "A Day in Paris" (Finck).

9.0 : Evening weather report and station notices.

9.2 : Piano—Miss Ellis Gilders, "Caprice" (Sibelius).

9.6 : Novelty instrumental—Harmony Four, (a) "One, Two, Three, Four" (Redding); (b) "Medley of Choruses" (arr. Bridgman); (c) "Drifting and Dreaming" (Aldyne).

9.15: Fantasia—Orchestra, "Ideal Aida" (arr. Black); march, "Tzigane."

9.30: Dance programme.

Foxtrots—Ben Selvin and His Orchestra, "Around the Corner."
Gil Dech and His Syncopators, "You Can't be Unhappy if You Sing" (Barry).

Paul Specht and His Orchestra, "Santiago" (Stothart).

Stellar Dance Band, "Minnie's Yoo-Hoo!"

Stellar Dance Band, "Eleanor" (McCarthy).

9.42: Waltz—The Four Bright Sparks, "Eleanor" (McCarthy).
Foxtrots—Van Phillips and His Band, "Just Like in a Story Book."
Gil Dech and His Syncopators, "Bridge of Our Dreams Come True" (Monk).

9.51: Vocal duet—Sweet and Low Duetists, "By the Waters of Killarney."

9.54: Foxtrots—Ipana Troubadours, "Cooking Breakfast for the One I Love."

Columbia Photo Players, "Leave It That Way" (Fisher).

Ipana Troubadours, "Kickin' a Hole in the Sky" (Greer).

Columbia Photo Players, "The Whole Darned Thing's For You" (Ahlerl).

10.6 : Waltz—Frank Ferera's Hawaiian Trio, "Lazy Lou'siana Moon."

Foxtrots—Paul Specht and His Orchestra, "Into My Heart" (Ahlerl).

The Four Bright Sparks, "High Society Blues" (McCarthy).

The Four Bright Sparks, "The Sunshine of Marseilles" (Gilbert).

10.15: Vocal—Cavan O'Connor, "The Sunshine of Marseilles" (Gilbert).

10.18: Foxtrots—The Columbia Photo Players, "The Tree and Easy."

Frank Ferera's Hawaiian Trio, "Pale Blue Waters."

Stellar Dance Band, "The Toy Farm Yard" (Weston).

Paul Whiteman and His Orchestra, "Livin' in the Sunlight."

10.30: Waltzes—Stellar Dance Band, "I Feel You Near Me" (McCarthy).

Foxtrots—The Columbia Photo Players, "It Must Be You" (Turk).

Ben Selvin and His Orchestra, "With My Guitar and You."

Paul Whiteman and His Orchestra, "You Brought a New Kind of Love to Me" (Fain).

Stellar Dance Band, "A Pair of Blue Eyes" (Kernell).

10.45: Vocal duet—Sweet and Low Duetists, "Just an Old Refrain" (Wynn).

10.48: Foxtrots—Van Phillips and His Band, "I'm in the Market for You."

Gil Dech and His Syncopators, "Johnnie, Our Aeroplane Girl"

Debroy Somers Band, "Figaro" (Mitchell).

Gil Dech and His Syncopators, "A Lone Girl Flyer."

11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, MAY 22.

3.0 : Gramophone recital.

4.25: Sports results.

5.0 : Children's hour.

6.0 : Dinner music session.

The Classic Symphony Orchestra, "Raymond Overture" (Thomas).

Band of the Garde Republicaine, "The Two Pigeons" (Messenger); (1)

Entrance of Tzigane, (2) Scene and March of the Two Pigeons.

Herman Finck's Orchestra, "Schubertiana" (arr. Finck).

Musical Art Quartet, "To a Wild Rose" (McDowell).

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).

Musical Art Quartet, "Mighty Lak' a Rose" (Nevin).

Rio Novelty Orchestra, "Mientras Lloro el Tango."

7.0 : News session.

7.30: Dialogue—Messrs. D. Cossgrove and W. Melbourne, "Radio Service."

8.0 : Chimes. Overture—Symphony Orchestra, "Entr'acte and Valse."

8.4 : Tenor and chorus—Mr. Russell Sumner, "The Call of the Sea."

Soprano and tenor—Melodious Duo, "I've Confessed to the Breeze."

8.9 : Instrumental—Harold Coman's Orchestra, (a) saxophone solo, "Dream Boat" (Ivor Novello); (b) one-step, "Little White Lies" (Donaldson); (c) waltz, "Dancing with Tears in My Eyes" (Burke).

8.18: Mezzo-contralto and bass—Melody Duo, (a) "I Want to be Happy."

Soprano and chorus—Miss Frances Hamerton and Quartet, "No! No! Nanette" (Youmans).

8.24: Instrumental—Harold Coman's Orchestra, (a) trombone solo, "Because" (D'Hardelet); (b) foxtrot, "I'll Still Belong to You" (Herb Brown); (c) march, "On the Alert" (Schubert).

8.33: Soprano and tenor and chorus—Miss Frances Hamerton, Mr. Russell Sumner and Quartet, "Tea for Two" (from "No, No, Nanette").

Mezzo-contralto, bass and chorus—Miss Millicent Jennings, Mr. T. D. Williams and Quartet, "You can Dance with Any Girl" (Youmans).

- 8.39: Piano novelty—Miss Maisie Ottey, "Justin Tyme" (Rory Bargo).
 8.43: Bass—Mr. T. D. Williams, "The Other Chap" (from "The Sunshine Girl") (Rubens).
 Soprano and chorus—Miss Frances Hamerton and Quartet, "Here's to Love and Laughter" (Rubens).
 8.51: Instrumental—Harold Coman's Orchestra, (a) violin solo, "Roses of Picardy" (Haydn Wood); (b) foxtrots, "Lover, Come Back to Me" (Romberg); (c) "It Happened in Monterey" (Mabel Wayne).
 9.0: Evening weather forecast and station notices.
 9.2: Instrumental—Harold Coman's Dance Orchestra, (a) waltz, piano solo, "Chanson Triste" (Tschalkowsky—arr. Coman); (b) one-step, "My Baby Cares for Me" (Donaldson); (c) waltz, "In a Window in a House in Caroline" (Motzan).
 9.11: Soprano—Miss Frances Hamerton, "O Time, Time" (Monckton).
 9.14: Piano novelty—Miss Maisie Ottey, (a) "Slipova," (b) "Sunshine Caper"
 9.20: Contralto—Miss Millicent Jennings, (a) "A Quaker Girl" Tenor and chorus—Mr. Russell Sumner and Quartet, (b) "Come to the Ball" (both from "The Quaker Girl") (Monckton).
 9.25: Instrumental—Harold Coman's Orchestra, (a) saxophone solo, "Until" (Sanderson); (b) one-step, "Just a Little Closer" (Meyer); (c) march, "The Electric Girl" (Helmberg Holmes).
 9.30: Lecture gramophone recital by Mr. Karl Atkinson, "Richard Wagner—Poet-Composer."
 10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, MAY 22.

- 3.0: Selected recordings and racing results.
 5.0: Children's session conducted by "Aunt Sheila."
 6.0: Dinner music session.
 Paul Godwin Orchestra, "Aubade" Serenade (Schweitzer); "The Divorced Lady" (Fall); "Lotus" Waltz (Ohlsen); "Alsatian Country Dance No. 1" (Merkelt).
 Great Symphony Orchestra, "The Master Miner" (Zeller).
 Mandolin and Lute Band, "Per Aspera Ad Astra" (Urbach).
 Paul Godwin Orchestra, "Smitten" (Ziehrer-Hrubly); "Alsatian Country Dance No. 2" (Merkelt).
 Berlin State Opera Orchestra, "Knight Passman Ballet" (Strauss).
 Paul Godwin Orchestra, "Bells of Vineta" Waltz (Lindsay-Thiemer).
 Mandolin and Lute Band, "Turkish March" (Mozart).
 Paul Godwin Orchestra, "Flower Song" (Lange); "Rejoicings" March.
 7.0: News session.
 7.40: Talk—Mr. R. W. Coupland, "Tourist Resorts."
 8.0: Chimes. Overture—Herman Finck's Orchestra, "Waldteufel Memories"
 8.9: Bass-baritone—Mr. J. J. Devereaux, (a) "Invictus" (Huhn); (b) "She is Far from the Land" (Lambert).
 8.15: Popular melodies—The Ambassadors, (a) "It's a Great Life" (Whit- ing); (b) "With My Guitar and You" (Snyder).
 8.21: Irish dialect—Miss E. M. Holland, "Mr. Maloney on Taxation."
 8.27: Foxtrot classique—The Ambassadors, (a) "Arabique" (Scheherazade) (Katzman); (b) "I'll be Blue just Thinking of You" (Pendling).
 8.34: Soprano—Miss Noni Davidson, "Dear Little Shamrock" (Jackson).
 8.37: Violin—Florizel von Reuter, (a) "Campanella" (Paganini-Reuter); (b) "Jota Navarra" (Sarasate).
 8.43: Tango—The Ambassadors, "Tango des Amours" (Milton).
 8.47: Tenor—Mr. W. N. Satterthwaite, "O. Erip, My Country" (Jeffery).
 8.50: Piano—Mrs. C. Drake, (a) "Murmurs," (b) "The Spiders' Ball."
 8.54: Contralto—Miss M. Howden, (a) "Three Fishers" (Hullah); (b) "My Ain Wee Hoose" (Munroe).
 9.0: Weather report and station notices.
 9.2: Trio—Winkler Trio, (a) "Schrebel Waltz" (Schrammel); (b) "Forest Songsters" (Ziehrer).
 9.10: Bass-baritone—Mr. J. J. Devereaux, "Loving Smile of Sister Kind."
 9.14: Popular melody—The Ambassadors, "Fountainette" (Delibes).
 9.20: Soprano—Miss Noni Davidson, (a) "The Spinning Wheel" (Schubert); (b) "When Thou Art Nigh" (Moffat).
 9.26: Male quartet—Abel's Quartet, "Das Lied Vonder Wunder Bar."
 9.29: Waltz—The Ambassadors, "Down the River of Golden Dreams" (Shil- kret); foxtrot, "What's the Use?" (Newman).
 9.36: Irish humour (dialect)—Miss E. M. Holland, "Mr. Maloney at the Pictures."
 9.41: Piano—Mrs. C. Drake, "Love and Laughter" (Edgar Wood).
 9.45: Tenor—Mr. W. N. Satterthwaite, (a) "The Hills of Donegal" (Sander- son); (b) "Maire, My Girl" (Aitken).
 9.51: Accordeon duo—Gellin and Borgstrom, (a) "Holmenkollen March" (Johanson); (b) "Norwegian Hunting March" (Grieg).
 9.54: Contralto—Miss M. Howden, "Auld Scotch Songs" (Leeson).
 9.57: Popular melody—The Ambassadors, "I Miss a Little Miss" (Coots).
 10.1: God save the King.

Saturday, May 23

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, MAY 23.

- 3.0: Selected recordings.
 3.15: Literary selection.
 5.0: Children's session, conducted by "Cinderella."
 6.0: Dinner music session:

- Paul Godwin's Orchestra, "The Jolly Robbers" Overture (Suppe);
 "Stephanie Gavotte" (Ozibulka); "Feldblumen" (Westling);
 "Suite Ballet" (Poppy), (1) "Entree Mazurka," (2) "Pizzicati,"
 (3) "Valse Lente," (4) "Largo," (5) "Final Galop"; "Avant de Mourir" (Boulangier); "Moonlight" (Massenet); "Coppelia Ballet Fantasy" (Delibes).
 State Opera Orchestra, Berlin, "Othello Ballet" (Verdi); "Dams Blanche" (Boieldien); "Turkish March" (Mozart).
 Paul Godwin Quintet, (a) "Popular Song" (b) "Tale" (Komzak).
 7.0: News and market reports.
 8.0: Chimes. Special programme from the Model Studio at the Auckland Radio Exhibition.
 Novelty—Gordon Cole and His Civic Winter Garden Orchestra, "How Do You Do?" (arr. Cole); foxtrots, "Roses in June" (O'Hagan), "You are the Melody" (De Sylva).
 Bass—Mr. S. Hislop, "The Wheel-Tapper's Song" (Charles).
 Vocal—The Savoy Male Quartet, "In Absence" (Buck).
 Tenor—Mr. Frank Campbell, "The Fortune-Hunter" (Willeby).
 From the Studio:
 8.20: Banjo—Len Fillis, "Swanee River Medley" (arr. Fillis).
 B.B.C. Wireless Military Band, "Hungarian Dance" (Moszkowski).
 From the Radio Exhibition:
 8.30: Soprano—Miss Adele Taylor, (a) "A May Morning" (Denza), (b) "Good-night, Little Stars" (Lehmann).
 Siffleur—Mr. C. C. Purdy, (a) "Souvenir" (Drdla), (b) "La Spagnola."
 Vocal—The Savoy Male Quartet, "Drink to Me Only" (arr. Jenkins).
 Baritone—Mr. Arthur Gally, "By the Light of the Moon."
 Vocal—Messrs. Frank Campbell and Bert Skeels, "When Song is Sweet" (Sans Souci).
 From the Studio:
 8.50: Selection—Paul Godwin Orchestra, "A Concert in the Forest."
 Accordeon—Rene Leroux, (a) "Pleasant" Foxtrot, (b) "Angustia."
 From the Radio Exhibition:
 9.0: Evening weather forecast and announcements.
 Novelty—The Asquiths, "Drawing-room Entertainment."
 Novelty—Gordon Cole and His Civic Winter Garden Orchestra, "Sing Something Simple" (Hupfield); waltz, "My Desert Rose" (Terese); foxtrot, "Sweet Jennie Lee" (Donaldson).
 From the Studio:
 9.20: Chorus—Light Opera Company, "King of Jazz."
 Guitar—Palakiko and Paaluhl, "Kalima Waltz."
 Selection—Paul Godwin's Orchestra, "The Nightingale and the Frog."
 From the Radio Exhibition:
 9.30: Vocal—The Savoy Male Quartet, "Go, Ask Papa" (Parks); "Pickaninny Lullaby" (Macy).
 Contralto—Miss Kay Christie, (a) "The Glory of the Sea" (Sander- son), (b) "Hine e Hine" (Te Rangī Pā).
 Trumpet—Mr. A. Hills, "Rosary" (Nevin).
 Slow foxtrot—Gordon Cole and His Civic Winter Garden Orchestra, "I Miss a Little Miss" (Seymour); foxtrot, "Finding the Long Way Home" (Kahn).
 From the Studio:
 9.50: Chorus—Light Opera Company, "High Society Blues" (Hanley).
 Guitar—Palakiko and Paaluhl, "Kohala March" (traditional).
 B.B.C. Wireless Military Band, "Le Reve Passe" (Helmer).
 10.0: Programme of dance music from the studio:
 Foxtrots—Jack Hylton and His Orchestra, "The King's Horses."
 Ted Weems and His Orchestra, "My Baby Just Cares for Me"
 Nat Shilkret and His Orchestra, "Dixiana" (Caldwell).
 Ted Weems and His Orchestra, "A Girl Friend of a Boy Friend of Mine" (Kahn).
 10.12: Waltz—Nat Shilkret and His Orchestra, "Dancing with Tears in My Eyes" (Dubin).
 Foxtrots—The High-Hatters, "Anchors Aweigh" (Zimmermann).
 Jack Hylton and His Orchestra, "Adeline" (Nicholls).
 The High-Hatters, "The Mug Song" (Gaskill).
 10.24: Vocal—Aileen Stanley, "Swingin' in a Hammock" (Seymour).
 10.27: Foxtrots—Nat Shilkret and His Orchestra, "How are You To-night in Hawaii?" (Leslie).
 Nat Shilkret and His Orchestra, "Mr. and Mrs. Sippi."
 Green Brothers' Marimba Orchestra, "Lo Lo" (Feist).
 Nat Shilkret and His Orchestra, "Why Have You Forgotten Waikiki?" (Kahn).
 10.39: Waltz—International Novelty Quartet, "Jolly Fellows" (Vollstedt).
 Foxtrots—Marimba Centro Americana, "Forget You? Never!"
 International Novelty Quartet, "Knocked 'Em in the Old Kent Road."
 10.48: Vocal—Aileen Stanley, "I Love You So much" (Kalmar).
 10.51: Foxtrots—Ben Bernie and His Orchestra, "It's a Lonesome Old Town."
 Waring's Pennsylvanians, "Little White Lies" (Donaldson).
 Ben Bernie and His Orchestra, "Au Revoir—Pleasant Dreams" (Meskill).
 11.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, MAY 23.

- 3.0: Chimes. Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by "Aunt Molly."
 6.0: Dinner music session:
 San Francisco Symphony Orchestra, "Caprice Viennois" (Kreisler).
 'Cello—Pablo Casals, "Spanish Dance" (Granados, arr. Casals).

- Novelty Orchestra, "Ginger Snaps" (Bourdon).
 Victoria Orchestra, "La Serenata" (Metra).
 Kirilloff's Balalaika Orchestra, "Medley of Old-Time Songs."
 Organ—Jesse Crawford, "How Am I to Know?" (Parker, King).
 Vienna Philharmonic Orchestra, "Die Fledermaus" (Strauss).
 Organ—Jesse Crawford, "I'll Close My Eyes to the Rest of the World."
 Novelty Orchestra, "Midnight Bells" (Heuberger).
 San Francisco Symphony Orchestra, "Coppelia Ballet" (Delibes).
 Novelty Orchestra, "Passion Rose" (Lehar).
 Victoria Orchestra, "Espanita" (Rosey).
 Cello—Pablo Casals, "Vito" (Spanish Dance) (Popper).
 Novelty Orchestra, "Danse Bagatelle" (Bourdon).
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. W. M. Jackson, "Gladioli and Gardening Hints."
 8.0 : Chimes, followed by "The Eight O'Clock Revue," a second series of grown-up children's hours specially written and arranged by Mr. Will Bishop, featuring the Etude Quartet—Miss Gretta Stark, Ray and Rita Kemp, and Mr. Will Hancock; Miss Elsie Croft and Mr. Will Bishop.
 9.0 : Weather report and station notices.
 9.2 : Selection—2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), "Ballad Memories" (arr. Baynes); selection, "The Student Prince."
 9.18 : Soprano—Miss Gretta Stark, (a) "Just Awearyin' for You," (b) "I Love You Truly" (Jacobs-Bond).
 9.22 : Chorus with orchestra—Debroy Somers Band, "War Marching Songs."
 9.28 : Violin with orchestra—Mr. W. Haydock and Salon Orchestra, "Violin Song" (Rubens).
 Saxophone with orchestra—Mr. W. J. Haines and Salon Orchestra, "Danny Boy" (Baynes).
 9.36 : Chorus—Florrie Ford and Company, "Florrie Ford Old-Time Medley."
 9.39 : Selection—Salon Orchestra, "Tina" (Rubens).
 9.46 : Soprano—Miss Gretta Stark, "The Songs My Mother Sang."
 9.50 : Instrumental—Salon Orchestra, "Latest Dance Novelties."
 10.0 : Dance music programme:
 Foxtrots—Marimba Original Excelsior de Guatemala, "El Enganado."
 Ben Berlin Dance Orchestra, "There's Only Room for One Love" (May).
 Paul Godwin Dance Orchestra, "I'm Longing for Something"
 Waltz—Ilja Livschakoff Dance Orchestra, "Mother Needn't Know."
 Foxtrots—Ben Berlin and His Dance Orchestra, "If I's and Ands Were Pots and Pans" (Stolz).
 Ilja Livschakoff and His Dance Orchestra, "The Brave Little Tailor" (May).
 Vocal—Clem Williams, "Old-Fashioned Girl" (De Sylva).
 Tangos—Ilja Livschakoff Dance Orchestra, "Your Lips Were Mine in My Dreams" (Marbot).
 Ben Berlin Dance Orchestra, "What's the Time?" (May).
 Paul Godwin Dance Orchestra, "Pinky, My Best Friend is You" (Ortuso).
 Waltz—Paul Godwin Dance Orchestra, "That's You" (Molto).
 Foxtrots—"Mother Goose Parade" (Breau).
 Ilja Livschakoff Dance Orchestra, "I Would I Could Be Your Lover" (Dostal).
 10.39 : Vocal—Clem Williams and Des Tooley, "You are the Melody."
 10.42 : Tangos—Ilja Livschakoff Dance Orchestra, "My Heart is at Your Feet"
 Paul Godwin Dance Orchestra, "Don't Leave Me" (Hollander); "Parting" (Blech).
 10.51 : Foxtrots—Ilja Livschakoff Dance Orchestra, "Don't Fear the First Kiss" (Stolz).
 Paul Godwin Dance Orchestra, "Dancing Puppets" (Rust).
 Marimba Original Excelsior de Guatemala, "Aguilas Mexicanas" (Jose Escobar).
 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, MAY 23.

- 8.0 : Afternoon session—Gramophone recital.
 4.25 : Sports results.
 5.0 : Children's Hour.
 6.0 : Dinner music session.
 Frank Westfield's Orchestra, "The Belle of New York" Selection.
 Dajos Bela Orchestra, "Strauss, the Waltz King at Home" (Weber); "Ideale" (Tosti).
 Edith Lorand Orchestra, "Rustle of Spring" (Sinding).
 Berlin State Opera House Orchestra, "Wine, Women and Song."
 Dajos Bela Orchestra, "Viennese Life" (Translaten).
 Victor Olof Salon Orchestra, "Grieg Selection" (arrgd. Urbach).
 Dajos Bela Orchestra, "Serenade" (Moszkowski); "Traumideale."
 Edith Lorand Orchestra, "Ich Liebe Dich" (Grieg).
 Frank Westfield's Orchestra, "Our Miss Gibbs" Selection.
 7.0 : News session.
 8.0 : Chimes. Overture—Debroy Somers Band, "Good News" (De Sylva).
 8.8 : Bass—Mr. R. W. Rofe, (a) "A Chip of the Old Block" (Squire); (b) "Come Sing To Me" (Thompson).
 8.14 : Banjo—Mr. Stan Birch, "Medley of Popular Airs" (arrgd. Birch).
 8.20 : Mezzo-soprano—Mrs. K. Henderson, (a) "The Little Damsel" (Ivor Novello); (b) "When the Great Red Dawn is Shining" (Sharpe).
 8.26 : Piano duet—Sisters Rialto, (a) "Cookery" (Kollman); (b) "Summer Is Here" (Seifert).
 8.30 : Sketch—Mr. and Mrs. J. W. Bailey, "The Baggage" (B. Moore).
 8.45 : Flute—Mr. A. E. Hutton, "La Sympathie" (Croner).
 8.50 : Duet—The Two Duggies, "Oh! Donna Clara" (Petersburgski).

- 8.53 : Novelty Duo—Saxophone and piano—Saxophone, Mr. Lyndon Christie and piano, Miss Olive Winston, "St. James Medley."
 9.0 : Tenor—Mr. Douglas Suckling, "The English Rose" (German).
 9.4 : Evening weather forecast and station notices.
 9.6 : Paul Godwin's Orchestra, "Cinderella's Bridal Procession" (Dicker).
 9.10 : Bass—Mr. R. W. Rofe, (a) "The Drum Major" (Newton); (b) "The Bosun's Lament" (Squire).
 9.16 : Banjo—Mr. Stan Birch, "Medley Gems of Erin" (Irish Airs).
 9.22 : Mezzo-soprano—Mrs. K. Henderson, (a) "Bring Me Roses" (Ellis); (b) "A Nest in Arcady" (Coates).
 9.26 : Accordeon—Gellin and Borgstrom, (a) "Blaze Away" (Holzmann); (b) "Gladiator's Farewell" (Blankenburg).
 9.30 : Sketch—Mr. and Mrs. J. W. Bailey, "For Winter, For Summer."
 9.40 : Flute—Mr. A. E. Hutton, "Die Elfin" (Wetger).
 9.46 : Tenor—Mr. Douglas Suckling, (a) "Yes, Yes, 'Tis True" (Planquette); (b) "Home, Little Maori Home" (Hill).
 9.52 : Novelty Duo—Saxophone and piano—Saxophone, Lyndon Christie piano, Miss Olive Winston, "The Good Old Days."
 10.0 : Dance music.
 Foxtrots—Leo Reisman and His Orchestra, "Puttin' on the Ritz."
 Jack Hylton and His Orchestra, "Punch and Judy Show."
 Gus Arnheim and His Orchestra, "Dancing to Save Your Sole" (Gilbert).
 Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).
 10.12 : Waltz—Ted Fiorito and His Orchestra, "Molly" (Goulding).
 Foxtrots—The Rhythmic Eight, "Fairly on the Clock" (Myers).
 Jack Hylton and His Orchestra, "The Kerf 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).
 Coon-Sanders Orchestra, "Moanin' For You" (Goulding).
 Victor Arden, Phil Ohman and Their Orchestra, "Dancing the Devil Away" (Harbach).
 10.33 : Waltz—Arcadians Dance Orchestra, "Melody Divine" (Ruby).
 Foxtrots—Bernie Cummins and His Hotel New Yorker Orchestra, "Minnie the Mermaid" (De Sylva).
 Arcadians Dance Orchestra, "Evening Shadows" (Polla).
 Ted Weems and His Orchestra, "Mysterious Mose" (Doyle).
 10.45 : Vocal duet—Esther Coleman and Foster Richardson, "Mountain Lovers" (Squire).
 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).
 Gus Arnheim and His Orchestra, "All I Want is Just One."
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, MAY 23.

- 3.0 : Selected recordings and racing results.
 5.0 : Children's hour, conducted by "Aunt Anita."
 6.0 : Dinner music session:
 J. H. Squire's Celeste Octet, "Operatica" (arr. Squire).
 Band—The Bombardiers, "Hungarian Dance No. 5" (Brahms).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite"—Adagiëtto.
 Regal Orchestra, "Pagliacci" Selection (Leoncavallo).
 J. H. Squire's Celeste Octet, "Song of the Waterfall" (Squire).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite"—Entr'acte, Le Carillon (Bizet).
 London Theatre Orchestra, "A Country Girl" Selection (Monckton).
 Band—The Bombardiers, "Hungarian Dance No. 6" (Brahms).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite" Intermezzo.
 Regal Cinema Orchestra, "Show of Shows" Selection.
 J. H. Squire's Celeste Octet, (a) "Scent of the Jasmine" (Squire), (b) "Two Eyes of Grey" (McGeoch).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite" Entr'acte—Le Cuisine de Castelet (Bizet).
 7.0 : News session.
 8.0 : Relay of vaudeville programme from 3YA, Christchurch.
 10.0 : Dance music session:
 Foxtrots—Jack Payne and His B.B.C. Dance Orchestra, "Beware of Love" (Kernell).
 Van Phillips and His Band, "Always in All Ways" (Robin); "Why Am I So Romantic?" (Kalmar); "Beyond the Blue Horizon" (Robin).
 10.12 : Waltz—Will Osborne and His Orchestra, "Down the River of Golden Dreams" (Klenner).
 Foxtrots—Jan Garber and His Orchestra, "When a Woman Loves a Man" (Rainer).
 Fred Rich and His Orchestra, "If I'd Only Listened to you."
 10.21 : Vocal duet—Layton and Johnstone, "Dancing with Tears in My Eyes."
 10.24 : Foxtrots—Rhythmic Troubadours, "You're the Sweetest Girl."
 Guy Lombardo and His Royal Canadians, "Where the Golden Daffodils Grow" (Archer).
 Waltz—The Cavaliers, "The Kiss Waltz" (Burke).
 10.33 : Foxtrots—Johnny Walker and His Rollickers, "Betty Co-ed" (Fogarty).
 Ben Selvin and His Orchestra, "Around the Corner."
 10.39 : Vocal duet—Layton and Johnstone, "Watching My Dreams Go By."
 10.42 : Foxtrots—Will Osborne and His Orchestra, "The Song Without a Name" (Russell).
 Guy Lombardo and His Royal Canadians, "Under a Texas Moon" (Perkins); "Good Evenin'" (Seymour).

- 10.51: Waltz—The Cavaliers, "All Through the Night" (Yorke).
 Foxtrots—Guy Lombardo and His Royal Canadians, "Be Careful With Those Eyes" (Woods).
 Ben Selvin and His Orchestra, "With My Guitar and You."
 11.0: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, MAY 23.

- 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.

Sunday, May 24

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MAY 24.

- 3.0: Selected recordings.
 Relay of portion of organ recital from the Auckland Town Hall by the City Organist, Mr. Maughan Barnett.
 5.0: Children's song service, conducted by "Uncle Bert."
 7.0: Relay of divine service from the Beresford Street Congregational Church. Preacher, Rev. Albert V. Whiting. Choirmaster, Mr. Wm. Gemmell. Organist, Mr. Arthur Cherry.
 8.30 (approx.): Relay of Municipal Band Concert from the Auckland Town Hall, under the conductorship of Mr. George Buckley.
 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MAY 24.

- 3.0: Afternoon session of selected gramophone recordings.
 6.0: Children's song service, conducted by "Uncle George," assisted by the Children's Choir from St. John's Presbyterian Church.
 7.0: Relay of evening service from St. Paul's Pro-Cathedral, Mulgrave Street, Wellington. Preacher, Canon Percival James. Organist and Choirmaster, Mr. Robert Parker, C.M.G.
 8.15 (approx.): Relay of band recital by the Royal Naval Volunteer Reserve Band from the De Luxe Theatre (Conductor, Mr. Harry Baker).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MAY 24.

- 3.0: Gramophone recital.
 5.30: Children's song service.
 6.15: Hymn chimes from studio.
 7.0: Relay of Salvation Army Meeting from "The Citadel," Victoria Square.
 8.15 (approx.): From the studio.
 New Light Symphony Orchestra, "Peer Gynt Suite, No. 2" (Grieg):
 (a) "Ingrid's Lament," (b) "Arabian Dance."
 8.23: Contralto—Miss Nellie Lowe, (a) "Little Holes in Heaven" (Hope); (b) "Love's Coronation" (Aylward).
 8.29: Violin—Miss Irene Morris, "Air" (Schweirs and Haake).
 8.32: Tenor—Mr. Jas. Shaw, (a) "Adelaide" (Beethoven); (b) "Life and Death" (Coleridge-Taylor).
 8.37: The Dulcet Quartet, "It was the Time of Roses" (Robertson).
 8.40: Instrumental—Studio Trio, "Allegro" (Bachel).
 8.50: Soprano—Mrs. W. B. Harris, (a) "The Old Refrain" (Kreisler); (b) "Only the River Running By" (Hopkins).
 8.56: New Light Symphony Orchestra, "Peer Gynt Suite, No. 2" (Grieg): "Return of Peer Gynt."
 9.1: Weather forecast and station notices.
 9.3: Baritone—Mr. A. G. Thompson, (a) "The Grey House" (Messenger); (b) "Crossing the Bar" (Willeby).
 9.8: New Light Symphony Orchestra, "Peer Gynt Suite, No. 2" (Grieg): "Solweig's Song."
 9.12: Dulcet Quartet, "Hymn of the Homeland" (Sullivan).
 Contralto—Miss Nellie Lowe, "If I Can Live" (Stephenson).
 9.19: Violin—Miss Irene Morris, "From the Canebrake" (Samuel Gardina).
 9.22: Tenor—Mr. Jas. Shaw, "In Native Worth" (from "Creation") (Haydn).
 9.26: Dulcet Quartet, (a) "Here a Pretty Baby Lies" (Gordon); (b) "The Day is Gently Sinking" (Congregational Hymnal).
 9.32: Soprano—Mrs. W. B. Harris, "Orpheus with His Lute" (Sullivan).
 9.36: Instrumental—Studio Trio, (a) "Pastel Minuet" (Paradis); (b) "Serenade" (Arensky); (c) "Scherzo" (Schubert).
 9.48: Tenor and baritone—Dulcet Duo, "Now We Are Ambassadors."
 9.50: Baritone—Mr. A. G. Thompson, (a) "Best of All" (Leslie); (b) "I Gave You Roses" (Aylward).
 9.55: New Symphony Orchestra, "Nell Gwinn Dances, Nos. 1 and 2" (German).
 10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MAY 24.

- 3.0: Selected recordings.
 5.30: Children's song service, conducted by "Big Brother Bill."
 6.15: Instrumental recordings.
 6.45: Relay of evening service from Salvation Army Citadel, Dowling Street, Dunedin. Preacher, Adjutant Tong. Band Conductor, Mr. A. Millard.

- 8.15: Relay of concert programme from Station 3YA, Christchurch.
 10.0 (approx.): God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, MAY 24.

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

Programme Features Musical and Dramatic Committee

(Continued from page 23.)

From 4YA

MR. R. W. COUPLAND will give a talk on "Tourist Resorts." English, Scottish, and Irish songs will be heard during the evening. Miss Noni Davidson, (soprano) will sing "Dear Little Shamrock," "The Spinning Wheel," and "When Thou Art Nigh." Miss M. Howden (contralto) has chosen as her numbers "Three Fishers," "My Ain Wee Hoose," and "Auld Scotch Songs." The tenor songs by Mr. W. N. Satterthwaite will be "O Erin, My Country," "The Hills of Donegal," and "Maire, My Girl." Mr. J. J. Devereaux (bass) will sing "Invictus," "She is Far from the Land" and "Loving Smile of Sister Kind." Miss E. M. Holland will give two humorous numbers in Irish dialect. Mrs. C. Drake will contribute pianoforte solos, and a programme of popular instrumental music will be provided by The Ambassadors.

SATURDAY

Auckland Notes

THIS is the final night of the Auckland Radio Exhibition, and a particularly fine programme has been arranged. The main portion of the instrumental programme will be given by Gordon Cole and his Civic Winter Garden Orchestra.

The Savoy Male Quartet (consisting of Messrs. Frank Campbell, Bert Skeels, Arthur Gally, and Sid Hislop) will provide vocal solos, duets and quartets. Soprano solos will be given by Miss Adele Taylor, contralto solos by Miss Kay Christie, and a "Drawing Room Entertainment" by the Asquiths. Mr. C. C. Purdy will be heard in whistling solos.

Wellington Features

AT 7.40 p.m. Mr. W. M. Jackson will give a talk on "Gladioli and Gardening Hints."

Another of the series of "Grown-up Children's Hours," entitled "The Fight O'clock Revue," specially written and arranged by Mr. Will Bishop, will be featured on this evening's programme.

The performers will be the Etude Quartet (Miss Gretta Stark, Ray and Rita Kemp, and Mr. Will Hancock). Miss Elsie Croft, and Mr. Will Bishop. The Salon Orchestra, under Mr. M. T. Dixon, will take up the second half of the programme. Their items include "Ballad Memories," a selection, "The Student Prince," "Violin Song" (by Rubens), a saxophone solo with orchestral accompaniment, "Danny Boy," a selection, "Tina," and the latest dance novelties.

Christchurch Notes

THIS evening's vaudeville programme will include mezzo-soprano, tenor and bass solos, sketches, flute solos and banjolin solos.

THE 2YA Musical and Dramatic Committee met on Monday, May 4, Mr. E. Palliser presiding. There were present: Mr. W. P. McLachlan (Wellington Competitions Society), Mr. V. R. Bennett (Harmonic Society), Mr. R. J. Retallick (Wellington Apollo Singers), Dr. I. L. G. Sutherland (W.E.A.), Mr. J. Carr (Charley's Aunt Club), Mr. M. S. Galloway (C.T. Male Voice Choir), Mr. W. A. Jamieson (Theatrical and Operatic Society), Mr. E. Dawson (Wellington Symphony Orchestra), Mr. J. Ball and Mr. O. M. Pritchard. Apologies for absence were received from Messrs. R. Lyon and E. A. Anson.

Mr. Galloway was welcomed to the committee. Discussing the recent broadcast of a concert by the Symphony Orchestra, the chairman said that though it was well known that the broadcast would take place the attendance was the biggest they had ever had. There had been 50 resignations due to the depression and at the same time 100 new ones.

A resolution was passed congratulating the orchestra on its performance and on the attendance. Mr. Ball reported that in the near future two operas, "Cavalleria Rusticana" and "Tales of Hoffman," would be broadcast, and that it was proposed to present a series of musical portraits presenting different aspects of great composers in an attractive manner to suit all listeners.

The committee passed a resolution expressing appreciation of the action of the Broadcasting Company in extending the day transmission hours of 2YA. Numerous offers of talks and suggestions for attractions during the daylight sessions were given. The question of community singing was also discussed.

Mr. Ball reported on the educational session for the schools on Tuesdays, and stated that the Director of Education, Mr. T. B. Strong, had received many letters of appreciation.

Community Singing at 1YA

LAST year one of the features of 1YA's programmes was the relays of community singing from the Auckland Town Hall. These broadcasts were exceedingly popular and listeners will look forward to them again this year. Many old and popular melodies, which surely bring back memories of another day, are sung in this mid-day hour. Such tunes as "Comin' Through the Rye," "The Girl I Left Behind Me," "John Brown's Body," "Cherry Ripe," are only a few of the delightful old choruses that are sung.

These choruses are obtainable in a booklet, "Radio Community Songster," which sells for sixpence.

Identification Wanted

STATION heard at approx. 9.22 p.m. on April 28, operating on 308 metres (980 k.c.). Community singing and band items were heard. Signals R5. Also heard on April 29 after 3YA closed down.—R.J.R. (P.N.).

STATION immediately above 1YA often heard giving a call commencing with "C". What Canadian would this be? Is there a station 1ZP, Auckland, operating on Sunday afternoons and early Sunday evenings, on approx. 1100 k.c. (272 metres) immediately below 1ZR? Announcements commence "Hullo, hullo, 1 ZP (?)", Auckland.—L.I. (Gisborne).

STATION heard at 10.15 p.m. between 3AR, Melbourne (86), and 7ZL, Hobart (92). Unknown station 90. Speech weak and sounded foreign.—"Keen" (Waipukurau).

STATION on about 500 m. (600 k.c.), midway between 7ZL and 3AR. He commences at about 10 p.m. A man is usually speaking in a foreign language, with occasional musical recordings. On the 5th, items heard were: 10.15, "Londonderry Air"; 11.0 p.m., piano and violin number.—C.H.N. (Wellington).

CHINESE station heard on approx. 600 k.c. (500 m.). I picked him up at 10.50 a.m. on 2nd, while a violin solo was being played. This was followed by an orchestral item and then by a talk in Chinese. No call was heard. Signals about R4, but subjected to long periods of fading.—C. Aitken (Dunedin).

Stations Identified

J. S. (Hamilton): 6WF, Perth. **J.J.W. (Renanga):** WBNR, Chicago. "Bob" (Wellington): I have heard a lady announcing from 7HO, Hobart. **J.P.C. (P.N.):** At 5.45 p.m. on May 1 I heard the heterodyne on 2FC's frequency and think it is WBAF, New York or WAAW, Omaha.—L.I. (Gisborne).

"NEWCHUM" (Wellington): Station heard on April 20 was the Australian amateur VK3BY, which operates on approximately 1210 k.c. (248 m.), on a power of 25 watts.—"Amperite" (Lower Hutt).

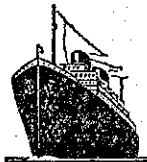
J. J.W. (Renanga): Probably KHJ on J. 900 k.c. (330 m.). They often broadcast organ recitals. Address: Don Lee Inc., 7th and Bixel Streets, Los Angeles, California. **J.P.C. (P.N.):**

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News and Views of the D.X. CLUB

Probably WBAF, New York, on 660 k.c. (454 metres).—J.T.S. (Napier).

D. McA. (N.P.): Station heard broadcasting boxing match was KMX. His address is 5555 Marathon Boulevard Hollywood, California. "Bellvue" (Christchurch): WBBM, Chicago, on 389 m. (770 k.c.).—N. Jenkins (Masterton).

T. J.L.T. (Wellington): 3RI, Melbourne. "Bung" (Waikato) 7LA, Launceston. "Bellvue" (Christchurch): WBBM, Chicago. "Red Bird" (Wellington): WOWO, Fort Wayne, 258 m. (1160 k.c.).—(Greymouth): Stations on 33: 4BC, Gisborne; 30, 3DB, Melbourne; 16, 3KZ, Melbourne; 13, 3GL, Geelong.—

4ME, Oxley. When that happens I should say the call 4ME will naturally lapse and as there will be no station, verification would naturally have to come from 4BC, and 4ME verifications would be unavailable for the DX competition.—J.P.C. (P.N.).

DX Club Membership.

C. G. FORBES (Woodville): Anyone contributing notes of interest to the DX page automatically becomes a member of the DX Club.—Ed.

The DX Competition.

FOR DX competition purposes, in which district is Poverty Bay? [Auck-

DX Club to Have Constitution Suggestions Invited

IN response to many requests from readers, it has been decided to devise a constitution for the DX Club, but a suitable one has not yet been decided upon, as it is felt that DX-ers themselves should have some say in the matter.

Consequently, suggestions concerning this are invited, and it is hoped that these will be sent in as soon as possible so that the club may be placed on a definite footing at an early date.

It has also been decided that a DX badge should be struck, and readers are invited to forward suitable designs. To the entrant whose design is finally accepted the "Radio Record" will award half a guinea, or alternatively, one year's free subscription to the "Radio Record," each plus a free badge.

H.F.A. (Masterton): Station on 204 m. (1470 k.c.) is WLAC, Nashville, Tennessee.—R.J.R. (P.N.).

H. F.A. (Masterton): Thanks, but I am still guessing. I have already verified WMAQ. The one I want is slightly lower. I think your station on 1470 k.c. (204 m.) is WLAC, Nashville, Tennessee. I wrote him 3 weeks ago. "Bung" (Waikato): 3GL, Geelong, 2 degrees below 2AY. There is no 3BL. You do not give any time for station 2 degrees below 2KY, but KMOX, St. Louis, Montana, has given that class of item several times recently. **T.J.L.T. (Wellington):** 3KZ, Melbourne. "D.McA." (N.P.): KNX, Hollywood. Jap. station is twin of JOAK, with same call. "Bellvue" (Christchurch): JOIK, Sapporo; WBBM, Chicago. **J.R.B. (Invercargill):** Twin of JOAK. **R.J.R. (P.N.):** Thanks re 2BE.—J.P.C. (P.N.).

DX Topics

Recent Loggings.

MY latest verifications are from KVOO, Tulsa, Oklahoma, on 1140 k.c. (263 m.), and WJDX, Jackson, Mississippi, on 1270 k.c. (236 m.), power 1 k.w. I enclose three designs for the DX badge and would like your opinion of them.—J.T.S. (Napier).

[An announcement is made elsewhere concerning a competition for a design of a suitable badge. We would advise you to enter the three you forward.—Ed.]

4BC, Brisbane.

"W. H." (Gisborne): I received a communication recently from 4BC, Brisbane, in which they state their new transmitter at Oxley is not complete yet, and until handed over will be known as

land.—Ed.] **"Kauspanka" (H.B.):** I hope the earthquake has not affected you. What is your present total of stations logged?—L.I. (Gisborne).

Particulars of JOBK.

THE following particulars are taken from a card recently received from JOBK, Osaka. Power 10 k.w., frequency 750 k.c. (399 m.).—"Red Bird" (Wellington).

New Loggings.

FOLLOWING are recent additions to my log:—WKBO, Jersey City; WDAG and KGRS, Amarillo, Texas; WOKY, Covington; KMTR, Hollywood; and Radio, Bangkok.—"Uncle Sam" (Hastings).

2ZE on the Air Again.

I HEARD a new Jap. station on May 6 on 590 k.c. (508 m.). I held him until 12.29 a.m., when he gave the call JOAK, so he must have been relaying that station. At what position on the dial can I receive the Chinese station COMK, Mukden? Also what time does he close down? I heard 2ZE, Eketahunu, on the air again on the 6th. He came through at R9. My latest American is KMTR, Hollywood.—N. Jenkins (Masterton).

News of KGFJ.

STATIC still continues to be troublesome, but has not prevented me logging the following stations:—KGB, San Diego, Calif., 1330 k.c. (225.4 m.); WGN, Chicago, Ill., 720 k.c. (416 m.); KVOO, Tulsa, Oklahoma, 1140 k.c. (263 m.); KDB, Santa Barbara, Calif., 1500 k.c. (200 m.); KSTP, St. Paul, Minn., 1460 k.c. (205 m.); KGRS, Amarillo, Texas, 1410 k.c. (212 metres). I notice WLW is back again and provides a good programme at great strength. Among other verifications received recently was one from KGFJ, Los Angeles, the station that "Keeps Good Folks Joyful."

Following are a few extracts taken from a pamphlet accompanying the verification: "KGFJ has eliminated all classified advertising from its programmes. In this feature it stands alone with only one or two of the major stations. . . . This station is probably best known for the fact that it has operated continuously day and night, 24 hours per day, for more than two years. We believe it is the only 24-hour station in the United States."

The enclosed table shows airline distances between Auckland and various cities throughout the world.—"Seven Kicker" (Okoroire Springs).

[Pressure on space precludes publication of this in this issue.—Ed.]

N.Z. "B's" Heterodyning.

STATIC has not been too kind to Palmerston North DXers during the last few weeks and DXing is usually confined between the hours of 5 and 7 o'clock. During this period static is only mild and quite a few Americans can be heard. WTAM, Cleveland, is the best station received, usually closing down at 5.30 p.m. (1 a.m. E.S.T.), with WENR, Chicago, a close second. Other loud Americans are KRLD, Dallas, KOA, Denver, KMOX, St. Louis, WKBH, La Crosse, KYW, Chicago, and KFVD, Culver City. WJSV, Alexandria, on 203 m. (1460 k.c.), was heard on test on May 29. KOIN, Portland, on 319 m. (940 k.c.), is usually on the air with their "Merry-go-round" programme and can be identified by a loud droning noise. The N.Z. "B" stations are wobbling about a great deal on their frequencies. On May 5, at 5.45 p.m., there was a mix-up on 275 m. (1090 k.c.), caused by the heterodyning of 1ZR, Auckland, 4ZO, Dunedin, and KMOX, St. Louis. 4ZO seems to be the culprit, as it should be on 278 m. (1080 k.c.). I have noticed that all the Dunedin "B's" on 278 m. come in on the dial below 1ZR, and usually there is a great deal of heterodyning. "W.H." (Gisborne): 4ME, Oxley, is the temporary call-sign of the 4BC transmitter while on test.—R.J.R. (P.N.).

2ZL, Hastings.

I HAVE just received verification from 2ZL, Heretaunga Street, Hastings, on 226 metres (1330 kc.). Transmission hours are from 6.30 to 10 p.m. on Tuesdays and Fridays. Power, 30 watts.—"Red Bird" (Wellington).

Australian Coastal Steamers.

IN the early evening on April 25 I logged a stranger calling "VJML, s.s. Norah." This station proved to be VJJ operating on approximately 1870 kc. (219 m.), on telegraphy. This is one of the boats, equipped with radio, which trade on the Australian coast. It keeps in close touch with VK2ME. I wrote to VJJ for verification. I have to hand a confirmation which came through VK2ME of my report on reception from VJML. It appears that the latter will verify reports

DX Notepaper

DX'ers! Write for that verification on D.X. notepaper and avoid missing out important details. Takes a quarter of the time to write out, too. Obtainable from P.O. Box 1032, Wellington, in two-dozen lots (minimum order), price 1/6, or six dozen for 4/-, post free.

on any of the ships they work. Static has been very bad in Taranaki for the last three weeks, and I have logged only one station, KLS, during this period. I have verifications to hand of daylight reception from the following Australian stations:—3AR, 3DB, 5CL, 2FC, 2LB, and 4QG. I heard 3BO, Bendigo, Victoria, on March 17, and have written for verification. I had splendid reception from 2BG, Sydney, on April 27 at 3.42 in the afternoon.—S. Ellis (Okato).

Questions and Answers

(Continued from page 19.)

.0001 condenser in series with your .00035 variable condenser, and then construct coils such as those described for the Diff. series, or those described for the Sellens Shortwave Set, for controlling reaction of .00035 would be satisfactory for broadcast, although for shortwave the control would not be fine enough, and again you would have to reduce the capacity by a .0002 condenser.

2. I have made a one-valve set, but it oscillates when the station comes in loudest. Why is this?

A.: A station always comes in loudest when the set is oscillating, but the signals are very rough and unpleasant to listen to. Furthermore, you are annoying your neighbours.

3. Can I alter the capacity of .00035 condensers to .00025 and .0005 respectively?

A.: You can reduce .00035 to .00025 by connecting a .001 condenser in series with it. You can bring it up to .0005 by connecting a .00015 condenser in parallel, but this is unwise because you will find that the condensers will not cover the tuning range correctly. This is because you cannot get down below a minimum capacity of about .0002.

SHORTWAVE (Marton).—What should be the proper dimensions of the coils for the Diff. Two

A.: They were given in the article, but if you wish to make a very efficient broadcast coil you should increase the diameter to 2in.

2. Is there a wave trap described in the 1931 "Guide"? If there is, I have not located it.

A.: A wave trap is a rejector. Perhaps this makes things clearer. (See page 61.)

3. Using a .00035 tuning condenser for the "Night Hawk" you specify 23 d.c. wire for the coil, while in the Diff. series you specify 30 gauge. Which is really the better?

A.: There is little or no difference, but the 30-gauge makes a slightly smaller coil, and for broadcast purposes this would be better. For shortwave the wire can be larger.

H.M.S. (Waihi).—When I turn my set on, it does not operate until I dis-

connect the C. The set is very heavy on "A" battery. Some time ago there was trouble with the set, and one of the resistances burned a little.

A.: Something has burned out within the set and is partially short circuiting your battery. Better get someone who knows something about the set to look to it.

W.A.R. (Martinborough): I constructed a battery version of the super-heterodyne short-wave adapter. Grid return was taken to a potentiometer across the "A" battery. The set then oscillated, but I could get no stations. I was using the 1875 k.c. coil.

A.: The coil for the 1875 k.c. is to cover the 160 m. band and actually spreads from about 120 m. to 200 m., but there is little to be heard on this band. In the d.c. version the grid return should be taken to a potentiometer across the "A" battery. In the absence of a potentiometer a return should be made to A+.

2. What is the value of C3?

A.: .0005 mfd. fixed.

3. Is the choke a short-wave or broadcast? I am using the latter.

A.: The choke should really be a short-wave one, but a good broadcast choke will usually operate satisfactorily.

4. Should the adapter howl when brought into resonance?

A.: It should not howl unless the receiver is oscillating. This trouble can almost invariably be cured by adjustment of the B voltage on oscillator and first detector. Reduce these progressively until the howl ceases. Where a potentiometer is used for grid return an adjustment of this will often effect a cure.

5. Could you make the windings for L2, 3 and 4 more clear? I have wound the coils for the 60 to 100 metres band. Results have been splendid. I later wound coils for the 7500 k.c. band, but results were poor.

A.: Since the 80 metres coil is operating so well, copy the connections exactly for coils for the other band. The coupling coil L2 sometimes requires variation when an oscillator valve having an unusually high or low output is used. So try varying the number of turns on this.

N.Z.'S OWN RADIO BOOKSHOP

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(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.

LOOK AT THIS LIST:—

- The following by Ralph Stranger, 1/8 "Theory of Radio Communication," by Pilgate, 12/-.
- each:—
- "Modern Valves,"
 - "Selection of Wireless Signals,"
 - "How to Understand Wireless Diagrams,"
 - "Wireless Valves,"
 - "Wireless Communication Broadcasting,"
 - "Seeing by Wireless" (Television).
 - "Principles of Radio Communication," by Morecroft, 41/6.
 - "Elements of Radio Communication," by Morecroft, 19/-.
 - "Direction Finding," by Keen, 27/-.
 - "Radio Physics Course," by Ghirardi, 14/-.
 - "Technical Telegraphy: Answers and Solutions," by Roberts and Burrow, 2/3.
 - "Thermionic Vacuum Tubes," by Van der Bijl, 26/-.
 - "Radio Receiving Tubes," by Moyer and Wostrel, 14/-.
 - "How Radio Receivers Work," by Roberts, 8/-.
 - "Radio Design," 1/- per copy.
 - "Radio Engineering" (a monthly issue), 21/- per annum.
 - "Projection Engineering" (monthly) 21/- per annum.
 - "N.Z. Radio Guide and Call Book, 1931," 2/10.
 - "1931 N.Z. Radio Handbook," 2/10 posted.
 - 6-Valve Neutrodyne Blue Prints and instructions with one transformer and 2 resistance coupled audio stages, 1/3.
 - "Batteryless Neutrodyne" Blue Print, etc., 2/3.
 - 3-Valve Browning-Drake Blue Print and instructions, 1/3.
 - "Selective Crystal Set with 2-stage Audio" Blue Print and instructions, 1/3.
 - "Baby Stepper" (14ft. Step-plane), 1/3.
 - "Radio Record" D.X. Forms, 1/8 two doz., posted.
- "Practical Radio Telegraphy," by Nilson and Hornung, 18/-.
- "Radio Music Merchant" (formerly "Talking Machine World"), monthly, 2/- per copy.
- "Practical Radio Repairing Hints," by Rider, 13/- (Don't miss it.)
- "Principles of Radio," by Henney, 23/-.
- "Modern Sets, 1931," consisting of 2, 3, 4-Valve Battery and A.C. Sets, L-W Ampfr. and Special S-W Set, designed N.Z. conditions, by A. K. Box, 1/8.
- "Radio Sir," 72 pages—Don't miss this. 8d. posted. Great value.
- "Practical Radio Construction and Repairing," by Moyer and Wostrel, 15/6.
- "Radio Times" (English weekly), 4d. per copy.
- "Radio Retailing" (U.S.A.), monthly, 1/6 per copy.
- "Radio Manual," by Sterling and Kruse, 26/-.
- "All About the All-Electric," 1/9.
- "Practical Testing Systems," by Rider, 6/3.
- "Radio Operating Questions and Answers," by Nilson and Hornung, 14/-.
- "Radio Amateur Handbook" (Handy's) latest edition, 5/3.
- "Radio Amateur Call Book," latest quarterly, 6/3 (March, 1931).

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- LOFTIN-WHITE AMPLIFIERS** Stewart Hardware Ltd.,
Courtenay Place, Wellington.
- MULLARD VALVES** All Radio Dealers.
- N.Z. DISTRIBUTORS PILOT PARTS AND RECEIVERS,** Harrington's, N.Z., Ltd.,
including PILOT SUPER-WASP and GILFILLAN ELECTRIC RECEIVERS
40-42 Willis St., Wellington.
142 Queen St., Auckland.
- RADIOLA RECEIVERS** and Farmers' Trading Co., Ltd.,
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The 1931

RADIO GUIDE AND CALL BOOK

Booksellers and Dealers. 2/6.

Long and Short Wave Broadcasts

4ZO Schedule

LAST week we announced that station 4ZO, Dunedin, would broadcast simultaneously on long and short waves. Here are fuller details:—

4ZO is owned and operated by Barnetts Radio Supplies, The Octagon, Dunedin.

At the present time it is operating on 30 watts, but in the near future this power will be increased to at least 150 watts. The long-wave is 277.8 metres (1080 kc.) and the short-wave is 49 metres. The schedules are daily from 12.0 to 1 p.m. and 5 p.m. to 6 p.m., except Sundays. Additional hours, Monday, 8 p.m. until 11.0 p.m.; Friday, 7.0 p.m. until 11 p.m., with extra sessions from time to time.

HANDSOME
Radio Consoles
£34/10/-
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New Variable-Mu Valve

AT a recent meeting of the Institute of Radio Engineers, a new principle in screen-grid valve design was announced, according to George Lewis, vice-president of the Arcturus Radio Tube Company, Newark, N.J., and chairman of the Vacuum Tube Committee of R.M.A.

"This new valve, known as the type 551 variable-mu tube, bears promise of having a wide and useful application in radio set design in the near future," says Mr. Lewis.

"The type 551 operates on the variable-mu principle, wherein cross-talk and modulation distortion, caused by high-powered local stations, is practically eliminated. It is built to handle a signal 25 times greater than present-day screen-grid valves, which means smooth, even volume in reception at all times.

"This new valve," says Mr. Lewis, "not only makes possible a vast improvement in the operating efficiency of a radio set, but permits certain advantages and simplifications in the circuit arrangement. I believe that this is the most versatile valve development in a good many years."

Our Mailbag

Government Control.

IN a previous issue of the "Record" you invited your readers to send in their opinion of the projected Government control of broadcasting. In my opinion it would be an absolute calamity. I think the Radio Broadcasting Co. is doing all it can to please listeners, often going out of its way to give them something good and fresh. In the radio notes of a weekly contemporary of about three weeks ago, an article was published showing what Australia has lost by the Government taking it over. I think it would be interesting to your readers if you were to reproduce that article. Now, I have heard many expressions of opinion about radio. For instance, I have heard it stated that there is nothing in wireless, or that there is too much music sent over the air, or that wireless is not yet perfect.

In reply to these statements, I would like to instance the opening of the Dunedin Radio Exhibition lately by the Postmaster-General at Wellington (not of Wellington, mind you). This was rendered possible by the wonderful system of relay.

Then, as to too much music, the other evening just before going to bed, I

tuned in to Adelaide and heard part of an address by Lord Baden Powell to boy scouts. It was most interesting, and was one of many lectures and addresses that can be heard any night.

As to not being perfect, is anything perfect? Four or five years ago we thought motor-cars were perfect; now a five-year-old car is almost out of date. These facts are well worth considering. —Scotty.

B Class Stations.

YOU mentioned in your editorial that you were afraid that some of the money paid for listeners' fees would be given to B class stations. I think that as far as Southland is concerned some of the money should be given those stations because the Radio Broadcasting Co. has not given us a station of any consequence to suit this part of New Zealand. The only station any good for this part is the Wellington station, and at times is quite unsuitable, and not suitable in any way for crystal sets. One local B class station is increasing the power from 100 watts to 1000 watts in the next few months. I do not think that listeners who could get a reliable service from this station would object to their fees being paid to it. Apart from that, the programme he gives with records is superior to the Wellington station's programme, with its 80 per cent. singing articles, and most of them are only third-raters. What we want is powerful stations with plenty of good musical items, and when singing is put across it should be of the very best. Otherwise I think gramophone music the best every time. —Efficiency.

[The position of Invercargill and provincial towns in a similar position would most satisfactorily be met by arrangement being made for the Broadcasting Company to extend its services to such provincial centres by the establishment of suitable relay stations. A programme proposing this development was advanced by the Radio Broadcasting Company more than two years ago. The main advantages of such a scheme would be (1) that the one overhead would cover the whole service, and (2) linking in with the main stations would result in the provincial towns being given a much better range of programmes than can be given by a number of independent and isolated B class stations. The provincial towns certainly deserve consideration, but they will receive a far better service by incorporation in one full scheme for the whole Dominion than by the diffusion of listeners' funds over a number of independent B class stations.—Ed.]

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— — — bigger electrodes lengthen service and lower internal resistance means a lower voltage drop when in active service. Columbia "B" Batteries give your radio greater clarity, volume and distance: they mean economy and

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WELLINGTON

Short-wave News

PCJ's New Schedule.

PARTICULARS of their revised hours of transmission have been received from PCJ. These are as follow (New Zealand time):—

Thursday—4.30 a.m. to 7.30 a.m.

Friday—1.30 a.m. to 5.30 a.m. and 9.30 a.m. to 1.30 p.m.

Saturday—5.30 a.m. to 7.30 a.m. and 1.30 p.m. to 5.30 p.m.

ANC, France.

A NEW French short-wave station is reported to be working on 47.77 metres. This is located at Strasbourg with the call-sign of ANC.

The hours of transmission at present have not been published.

Broadcast from W3XAL.

AN announcement from W3XAL picked up during the week-end by the secretary of the New Zealand Short-wave Club stated that on May 22 between 9 and 10 p.m., E.S.T., Dr. Milligan and other eminent American personalities would broadcast. This should be heard in New Zealand on Saturday, May 23.

Rio de Janeiro.

A NEW station at Rio de Janeiro, Brazil, transmits daily on 31.75 metres from 10 a.m. till noon, New Zealand time.

Spanish Broadcast.

MR. GEORGE E. BRIGGS, Moreere, H.B. (N.Z.8W), reports an interesting item: "I tuned in at 12 noon on Thursday, April 30, on an experimental 30-metre coil, to a station broadcasting, I presume, from Spain. At the time the new President of the Republic was delivering a speech for the benefit of the people in America. This was being rebroadcast in New York. The speech was afterward translated into English. He spoke about the past history, their future policy, also their trade relations with America. Continuing, the translator said: "I will

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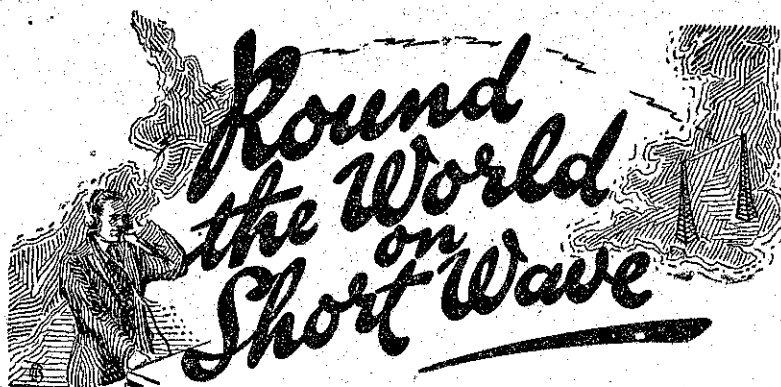
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SLENDERNES secured by taking Youth-O-Form Capsules. 20lb. reduction 6 weeks without dieting or exercising. 6/6 posted. A. C. Timms, Chemist, Pahiatua.



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

return you to New York," and continued on "duplex."

Reception was R9 with one stage of audio.

Mr. Briggs, who is using a "Differential Four," inquires if anybody else heard this interesting broadcast. If so, which was the station?

A Unique Broadcast.

WE have heard about the song of the nightingale being broadcast from the woods in Surrey, but to hear the roar of lions in their native jungle would be thrilling. The "Wireless Constructor" (London) made arrangements with the director of the East African short-wave station, VQ7LO, Nairobi, for a unique broadcast. Microphones were to be placed near a pool on the outskirts of Nairobi, where the lions are in the habit of slaking their thirst before starting out on their nocturnal hunt for food. As these kings of the jungle usually roar a good deal before and after drinking, this should provide a thrill for the listeners who were lucky enough to pick up this novel broadcast.

Notes on Reception During Week Ending May 9

Mornings.

THE two Russian stations on 50 metres and about 45.4 metres respectively continue to be well received each morning. HVJ, Vatican City, on 50.26 metres, from 6.30 a.m., is excellent, but talk only is heard. Radio Maroc, 32.26 metres, on Monday morning was again excellent at R9 from 7.30 a.m. OXY, Denmark, 31.51 metres, is audible at times, but a morse station is often too close. Zeesen, 31.38 metres, is not quite so good now. Volume about R8, but subject to gushiness.

PCJ, 31.28 metres, on Thursday was R6 at 6.30 a.m., increasing to R9 by 7.30 a.m. Saturday morning volume was less all through.

G5SW, 25.53 metres, is very poor till after the interval between 7.30 and 7.45 a.m., when reception improves wonderfully. On Tuesday, after the usual interval, it was announced that Lloyd George would inaugurate a series of talks on free trade and protection. Mr. Lloyd George commenced his talk at 7.50 a.m. by reviewing the changes that had taken place since the commencement of his political career. Reception was very good at R8-9; speech being 100 per cent. readable. I could

only stay to hear the opening remarks of this talk.

12RO, Rome, 25.4 metres, continues to be well received each morning—one of the best.

W2XAD, 19.5 metres, was heard on Monday morning, being R4 at 6.30 a.m., increasing to R5 by 7 a.m., but going off again very rapidly.

Afternoons.

STATION W9XF, 49.83 metres; W5XAL, 49.5 metres; and W3XAL, 49.13 metres, come in best late in the afternoon. W1XAF, 31.48 metres, comes in earlier, being readable soon after 1 p.m. and increasing to R9 soon after 2 p.m. W1XAZ, 31.85 metres, is not so consistent, but often comes through quite well. W5XK, 25.25 metres, also is very changeable, but is best about 1.30 p.m.

Evenings.

THERE is not much doing on the short-waves during the early evening, except duplex telephony. RV15, 70.1 metres, can be heard soon after 8 p.m., increasing in volume as the hour grows later.

VK3ME, 31.55 metres, on Wednesday and Saturday is very good from 9.30 p.m., but subject to severe fading. W1XAZ, 31.35 metres, starts at 11 p.m., but a trifle weak, about R4-5 just now. G5SW at 11 p.m. during the week has been too weak to be readable. Saigon, 49 metres, with me of late has been smothered by a morse station.

Short-wave Club

The Secretary Writes

ALL radio listeners in the Dominion will be interested to know that, in company with Mr. E. Hackett (NZ10W), I called on Petty-Officer Telegraphist A. J. Williams, of the Antarctic research ship Discovery, to present him with an honorary member's certificate and badge in recognition of his great work in connection with radio in the Antarctic. Owing to the conditions of the voyage I am unable to give an account, only to say that the direction-finding apparatus and various appliances were very up to date. Mr. Williams was much interested to hear of the club and thanked us for literature and copies of the "Record." At a future date a test will be carried out with two of the club's transmitting members on a speci-

fied wavelength, the two operators being well-known amateurs.

The first official broadcast of the club took place on Tuesday, May 5, at 11 p.m., when NZ18W, better known as ZL2AW, delivered a technical lecture as a test. Official listeners made notes.

A letter from a gentleman widely known in radio circles says: "The founding of the New Zealand Short-wave Club is certainly one of the greatest advances in wireless ever made in New Zealand." We very much appreciate these sentiments and trust that the club's efforts in the future will be of benefit to all listeners."

By the time these notes appear all that remains of 5000 QSL cards will be posted; the second order of club badges is rapidly going, and another typewriter ribbon is finished.

For the benefit of many inquirers who have missed copies of the "Record," the annual subscription for all members outside Wellington city is 5/- per annum. Enamel badges are 2/6.

In all probability the next lecture will be by the president, Mr. Sellens, on "Wavelength Calibration" (easy way to find stations).

Lists of stations logged, together with particulars, will be welcome. They should be posted in time to reach me by Friday at the latest, so that Mr. Sellens can check up. Sometimes members in other parts get interesting broadcasts that we miss here.

Our radio circle is still growing, but there is room for more. Letters always welcome. Address: The Secretary, New Zealand Short-wave Club, 274 Cuba St.—Yours,

MAC.

An Unconscious Intruder

THE story is related of how a telephone linesman became an impromptu announcer far out on the plains of Texas. The linesman scaled a telephone pole to repair a wire. He tapped a line, intending to communicate with his home office. He listened over his attachable telephone a minute, then yelled in amazement to his foreman on the ground:

"Great Gosh! There's music on this darn line."

Unknowingly, the linesman had tapped the wire carrying National Broadcasting Company programmes to its south-western network, and his exclamations were broadcast far and wide.

After trying out dozens of imported short-wave sets, it was believed that stronger reception with less noise could be obtained. A new design covering New Zealand conditions was built and, on testing, after final adjustments, it proved a leader in the short-wave world. This set is now commercially called the

"ADD-A-PHON"

Every purchaser will be a satisfied user, for, as well as full instructions in searching the world for interesting items, the designer, MACK, of

MACK'S RADIO

Kent Terrace, WELLINGTON. is always available to show just how everything works.

Children's Sessions

At 2YA

Monday, May 18: Uncle Jeff is taking some of Miss Zena Jupp's pupils for a trip to the "Land of the Water Fairies." You will hear about "The Fairy Laundry" and "See" and hear the fairies dance, while Wendy describes their dresses to Radioland.

Tuesday, May 19: There's to be a special "Sea Evening" to-night. We are to spend a night on board a ship which will leave the Radio wharf at the sounding of "Two Bells." There will be a concert on board ship. Sailors will dance a hornpipe and sing sea shanties. A sailor will play a mouth-organ and another will tell about "The Cabin Portholes." And there may be "A Storm." The evening will end when you hear "Four Bells."

Wednesday, May 20: More choruses by the "Cheerful Chirpers" to-night, and a nice story about two songs, to be told by Aunt Daisy. Birthdays, of course, and another "Meeting Pool" story.

Thursday, May 21: Uncle George and Big Brother Jeff welcome you all to the concert to be given to-night by the Junior pupils of Miss Helen Gardner. They will sing about "Manners," and "The Mission of a Rose," while others will tell you about "Sneaky Shoes," "Furry Bear" and "The Owl and the Pussycat."

Friday, May 22: Would you all like to go for a trip to "The Rainbow"? Well, listen-in and you may come with the pupils from Mrs. Ransom Myers' Studio. Uncle Jim will be in the Party.

NOTES and NEWS from the NORTH

(By "Call-Up.")

IT seems possible that station 1ZR will also be giving Saturday afternoon football relays, it being reported that the station is negotiating with the Rugby League for permission to relay descriptions of the matches played at Carlaw Park during the season.

A QUEEN STREET chemist, whose novel ideas are the cause of a large number of window-gazers, is now assuring Aucklanders that the secret of perfect health is to "earth" oneself in similar fashion to a radio set. He displays a dummy leg to explain how this is easily done. A wire is attached just above the knee and runs down

the inside of the leg to a little metal plate on the sole of the shoe. Possibly an excellent idea, but hardly comfortable enough to be likely to prove popular.

THE Amateur Transmitters' Association have been allocated a stall in a first-class position at the coming Auckland Radio Exhibition, and intend to feature a most interesting exhibit. A transmitting station will be installed and messages sent off from visitors to friends in all parts of the world.

A QUESTION which has been arousing wide interest in Auckland lately is whether the Auckland Rugby Union will permit the broadcasting of descriptions of its matches from Eden Park. The management committee of the Rugby Union met on May 6 and had a long discussion on the question, eventually deciding to grant permission for broadcasting on May 9, the position to be revised thereafter week by week. The discussion was taken in committee after hearing a statement from the Auckland representative of the Radio Broadcasting Company. Although this decision is indefinite, it is at least promising, and with any luck it looks as if Auckland listeners will not be denied this popular Saturday afternoon feature after all. In the event of permission for the

Saturday, May 23: This is an evening for Scouts and Cubs. The Hutt Scouts are giving us a concert while sitting round their camp-fire. They will open and close their evening with a haka, and Aunt Molly and Uncle Jasper have been invited to be present. The Scouts are going to have a race with Spot and give him a lesson in arithmetic.

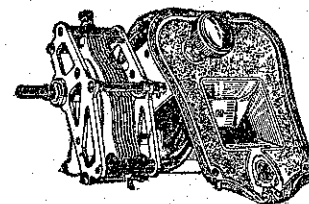
Sunday, May 24: The Children's Choir who will sing this evening is from St. John's Presbyterian Church, and the service will be conducted by Uncle George.

Rugby broadcasts being rescinded, it is believed that IYA will be able to provide a substitute.

THE Auckland Radio Exhibition will be opened in the Town Hall at 7.30 p.m. on Wednesday, May 20, and will be open from 10.30 a.m. until 10.30 p.m. on the three following days. Considerable interest is being aroused in the coming exhibition, and there promises to be plenty to interest those who visit it. The latest all-electric sets, which have just arrived in New Zealand, will be a feature of the exhibition. Visitors will also have a chance of actually seeing how broadcast programmes are conducted, as IYA will have a model studio on the stage from which the evening programmes will be relayed.

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The Inimitable Arliss.

THERE are pictures and pictures, and it was with certain misgivings that I prepared to witness representation on the sound film of "Old English," derived from the stage play by Mr. John Galsworthy, whose name is extremely near and dear in the history of one's literary experience. From past painful experience, one dreaded what the moving picture might do in the way of sacrilegious treatment. It turned out, however, that criticism was silenced. As the exponent of the ways and works of the eighty-year-old bon viveur, with his Latin tags, his strong vein of sentiment and entire absence of sentimentality, Mr. Arliss was a miracle of histrionic force and subtlety. L'audace, l'audace, toujours l'audace might well be the motto of one who faced financial crisis, blackmail, and threatened exposure of doubtful deeds with a wit, bonhomie and decision that needs must raise instantaneous admiration in a race of which "Old English" is typical.

In an effort to give financial help to children of a natural son of an old and illicit love-story, a "sharp" transaction is put through, which results in impending disaster. The old man gamely rises to grapple with emergency, refuses to be under the heel of unpleasant progeny of lawful marriage, and courts certain death with magnificent savoir faire.

Excellent well chosen as is the entire cast, embracing admirable butler and maid, volatile and frothy widow with attractive son and daughter, and mean-spirited hound who "chivvies" an enfeebled and dying man; yet each performance is subservient to Mr. Arliss's tour de force as the arrogant old autocrat, who, despite unquenchable zest for the world's ways, with heroic bravado wilfully dares his Nemesis and waves defiance at death.

The play has the advantage of unexceptionable staging, providing fascinating picturisation of England in the 'nineties, with "toppers," hansom cabs, old street scenes, and strange and distressing coiffures and costumes of female protagonists.

**Another View of the Eternal Feminine.**

DOES Mr. Jacob Epstein see us as we are, as he wishes us to be, as the eye of modern art envisages the mother of men, or as we "never was"? One wonders whence came inspiration for the extraordinary statue of "Genesis," latest work of this sculptor of original genius, which has raised storm of comment in England, most of it of a vituperative character. The statue represents the figure of a woman several times larger than life, remarkable for uncouth strength of modelling, and an entire absence of grace or beauty as these attributes are understood by its critics, who in a mental morass of dislike and bewilderment, endeavour, without success, to glimpse the symbolism of Mr. Epstein's great and terrible achievement. Work of genius as it may be, artistic problem as it undoubtedly is, "Genesis" has found a purchaser, and is to be added to a notable collection of ancient and modern art.

Pack up Your Troubles.

CULLED from an English paper is the following excellent suggestion that might with advantage be followed in our own country these cheerless times. At Home, where most people, even as we ourselves, continue to harp gloomily on general depression, a cheerful optimist has arisen in the originator of a series of "dinners de bon espoir" in a favourite restaurant. For once the universal grumblers of being "almost bankrupt" and "just existing on three separate overdrafts" were resolutely banned, and everyone put

aside worries for a few hours, entering resolutely into the spirit of the evening. So successful was it that the experiment is shortly to be repeated.

Women Writers.

THREE books to be recommended:

"Overture," by Anne Stanton Drew (pen name of a well-known actress), is a story of stage life by one who knows it well, and writes of what she knows with sympathy and charm. "The Diaries of Daisy, Princess of Pless," deal with interesting phases of the diversified career of the beautiful and unfortunate writer, and through its pages flit many famous political and social celebrities of England and Germany. "The Loving Spirit" is a family chronicle, tells the story of four generations, and is the best of the three books mentioned. It is by Daphne du Maurier, who, judging by her portraits, is as pretty as her name.

Amusing Decor.

IN the modernist house the back-to-nature trend has been driven from the lounge and bedroom to the bathroom. Here the "Hickling Broad" frieze tells the artist's story of a real bit of seagull life on the Norfolk Broads. There is another, "Ocean Depths," with realistic fish, rocks and seaweed. Blue is the most popular colour for the bathroom walls, and the second favourite is green. The modernist aim is to weld the room into one from the point of view of line as well as colour. A lounge scheme with the wallpaper in one of the numerous neutral tones bordering on sunshine, that strike a cheerful note as well as proving the

perfect background, has an interesting substitute for the overmantel in a cubist, semi-circular frieze in golds and browns that just takes the space over one of the wide low modern fireplaces.

The Gay City Grows Triste.

A GOOD deal of ink is now being spilled concerning the changes which have come over Paris since the war. Many people have declared that the capital is now very dull by comparison with the days when habitues of the boulevards strolled gently along, dropping into a cafe here and there for a little drink seasoned by music and conversation. The boulevardier now seeks some of his old haunts in vain. Where once there was a lively cafe he finds a bank or an insurance office. Some Parisians have raised the cry that Paris is losing her old gaiety. Many others simply smile at this insinuation, and declare that the real Parisian can find all the old spirit if he takes the trouble to look for it.

Fashion, the Jade!

OVERBLOUSES are more becoming than the tuck-in variety, and look excellent with jacket suits when well fitted under the waistline. The short-sleeved vest simulating a waistcoat is smart and sporting, fashioned in silks, gingham, pique, linen, plaid taffetas, and striped silks.

Tunics vie with overblouses and hang to the knees or to within six or eight inches of skirt hems. The most popular versions choose a waistline on the higher hip-bone level and smooth fitting skirt depths. They are effective in satin and heavy guipure lace.

From England comes tidings that trousers are popular. Not, perhaps, says the writer, for the street as yet, but for games and indoor wear. She wonders men do not rebel against this feminine invasion of the garb that has been their monopoly, as it looks as though we may become even more enterprising in other directions than matters sartorial.

Hints for the Housewife

Ink on Furniture.

VERY obstinate ink stains on furniture can be removed with a cork dipped in oxalic acid. Rub very lightly then wash off the acid immediately, and polish the wood in the usual way. Oxalic acid has a strong corrosive action, and it is therefore important that it should not be allowed to remain on the wood any longer than is strictly necessary. It is also a dangerous poison, and should be used with the greatest caution. Take great care not to allow it to touch your hands.

For Stiff Keys.

KEYS, especially those for outside doors, are often found difficult to turn because they are apt to rust with the damp. Take out any stubborn key, rub the part that fits the lock with soap, lard, or oil, replace it and lock and unlock the door several times. Very soon you will find the key turning quite easily and you will have no further trouble for a long time.

Ideal Food Containers.

GLASS is the ideal material for food containers. Stores that are getting low can be seen at a glance, and it is also easily washed and dried. If this is too expensive, earthenware is the next best substitute.

Cleaning Mahogany.

MAHOGANY which has become cloudy can be cleaned with muslin squeezed out of vinegar and hot water. Then dissolve two teaspoonfuls each of turpentine and linseed oil in a pint of water. Polish with wash leather.

Shabby Leather.

TO clean soiled or shabby leather chairs rub them with a soft cloth dipped in boiling milk. This will remove dirt and stains and restore the colour. Polish afterwards with a soft piece of velvet or velveteen, or use furniture polish in the ordinary way.

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"GLIMPSES of the Great," by Mr. George Sylvester Viereck, is a virile and stimulating series of interviews with men and women who, during the past twenty years, at one time or another, have loomed large in world affairs. The idiosyncracies of personalities as widely different as those of Professor Einstein, Freud, the late Emperor of Germany, Voronoff, Henry Ford, the Queen of the Belgians, and a dozen others are delineated with the pen of a ready writer; and if at times bias is noticeable in presentation of certain protagonists, this possibly is to be accounted for by the nationality of the brilliant raconteur. The book is offered to the reading public as a comprehensive compendium of the characteristics of the great, likewise "a kaleidoscope of human intelligence, a mirror of mankind, in the first quarter of the twentieth century, and a record of the pulse-beat of the age." To some the most outstanding of the numerous notabilities is that of the scintillating iconoclast, Frank Harris, himself a past master in the etching of thumb-nail portraits of his contemporaries, and who "dreams of a new creation inspired not by pain but by pleasure." There is a delightful and characteristically plain-spoken interview with Mr. G. B. Shaw, and of many other types and nationalities in the arena of Europe. Emil Ludwig, young, fearless and gifted biographer and novelist, hits out from the shoulder on certain aspects of British and German thought, and is characterised as "a genius in portraiture, journalist de luxe, lecturer and author." The book is illustrated with some excellent photographs, and is to be commended to those who like close-up presentations, warts and all, of world-famous leaders of literature and affairs.

With Book and Verse

By "JOHN O'DREAMS"

ACCORDING to latest figures, the average of production of fiction last year in England was ten a day. Assuredly of the making of books there is no end, but, in view of this arrestingly large total, one reflects how great are the odds against young and unknown writers, even though possessed of great gifts and phenomenal perseverance. Hard to win a place in the sun in any calling in these dim days of stress and cut-throat endeavour; and one applauds the pluck, and wonders at the hope that springs eternal in those New Zealand writers who, by dint of indomitable courage, initiative and ability, have climbed some few rungs of the difficult ladder of literary success.

THERE are those who delight in the work of the daringly outspoken American novelist, Mr. James Branch Cabell, and others who with equal cordiality detest his books, lock, stock and barrel; but that he is a brilliantly imaginative and creative force in contemporary fiction no one can deny. Attention at Home lately has been arrested by some literary studies from his pen, not recently published in England, though meeting with success in America some time back. The idea exploited in "The Certain Hour" is that of the psychological moment in a man's life when for a brief space he experiences com-

plete self-revelation. Mr. Cabell makes his excursions into other men's minds commendably terse, possibly realising that more than a moment of stark self-knowledge would forever prick the bubble of that inflated conception of the ego which keeps many a man going.

ON reading an account of the literary fare provided for the month just past by the B.B.C. for its fortunate public, I echo, with different con-

text, Browning's fervid wish: "O! to be in England now that April's here!" One reads in that fascinating notice that Mr. David Hardman was to give a comprehensive series of talks on the Forsyte Saga, which must have proved a great opportunity for lecturer and listener, and been greatly appreciated by the multitudinous public who place Mr. Galsworthy very near the top of the list of contemporary novelists. In the same month the author of the widely discussed "Bengal Lancer" gave six talks concerning "Gods, Saints and Heroes of Hindustan," his intention being to convey something of his own intimate and vivid knowledge of conditions in India and general background of life in that mysterious country.

Prize Poem Competition

THE prize of half a guinea in the current competition is awarded to F.H.S. for "The Spirit of Romance," in which our contributor has been successful in conveying musical impression of that beguiling and elusive ideal of beauty, which in youth and age fits before the spiritual vision, but seldom materialises in an imperfect world.

"Peace at Cooper's Beach": Fluent and pretty good of its kind.

"Merrie": We prefer "An Autumn Scene," which is like a picture painted swiftly in sombre, yet glowing, tones. The eighth line is not good.

John Storm: A noteworthy effort. Your work invariably reaches a fine standard.

"Cantor" writes: "May I thank you for the prize poem, 'The Master,' by D.P.? I have not read anything so beautiful for some time, and a beginner feels almost discouraged from trying his luck."

Another correspondent writes expressing admiration for "Ave Atque Vale" by "Thur," published in the "Record" in April.

"Fairlie": This poem goes with a freshness and sincerity that appeal, and is a poetic tribute to beauty of Canterbury landscape by one obviously possessing a flair for versification.

"Scrutineer": Our competition is conducted without fear or favour, and is designed to encourage those who essay, however tentatively, to follow the gleam of poetry.

"Elizabeth Anne" attacks a big subject with but moderate success, her verses being not always true to rhythm.

"Amabel": Tedious to a degree.

"Felix": No thanks. Communistic sentiment not in our line.

"Celt": Alas! you are out of your depth.

.. The Spirit of Romance ..

To childhood first in faery tales she speaks,
Then lures the growing boy with tempting wile
Of buried treasure on some palm-fringed isle.
Anon she beckons, and the grown man seeks
For undiscovered lands or unscaled peaks.
And then on blushing maid she loves to smile
And with sweet wayward thoughts her heart beguile,
Bringing fresh roses to her mantling cheeks.
She hovers o'er the searcher of the sky,
Seeking some star expected yet unseen.
She sees the lightning tamed, man learn to fly,
And hears voice answer voice thro' seas between...
And when life's sands run low she still is nigh
With golden visions of what might have been.

—F.H.S.



---Goodnight
Everybody---

THE announcer's last words ring out through the room—and the radio is finished with for the night.

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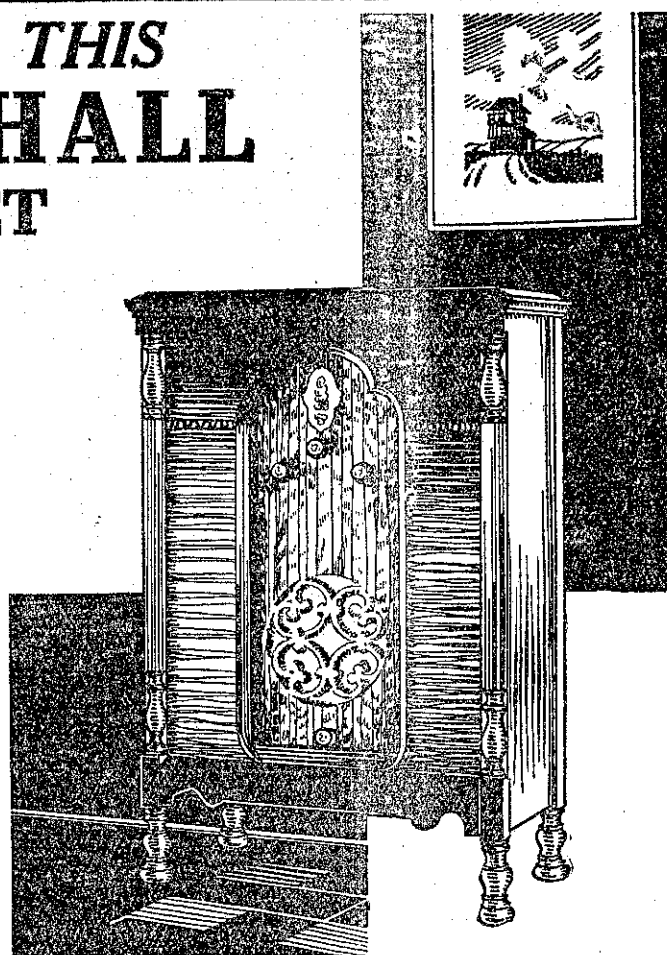
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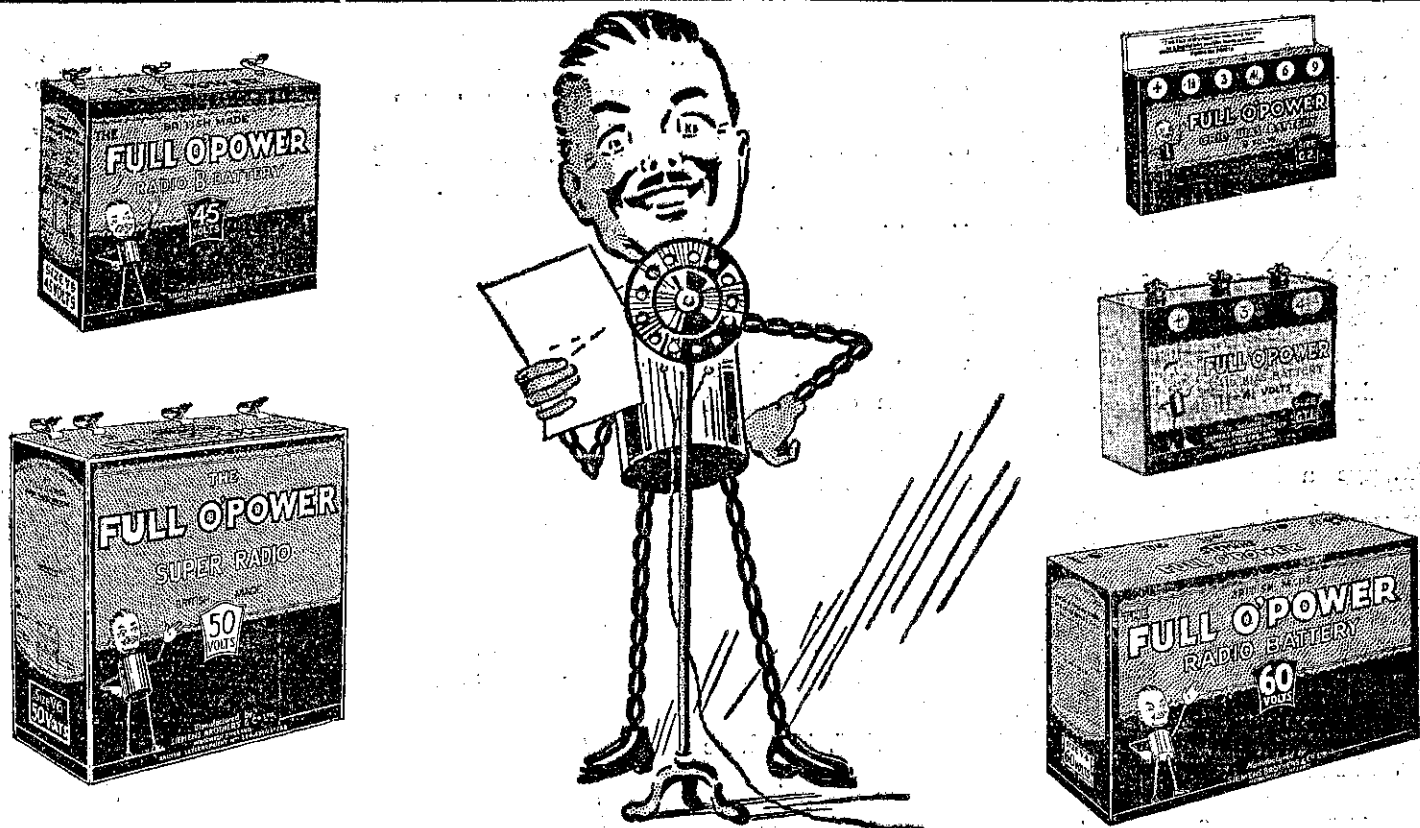
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