

PUBLISHED WEEKLY

THE RADIO RECORD



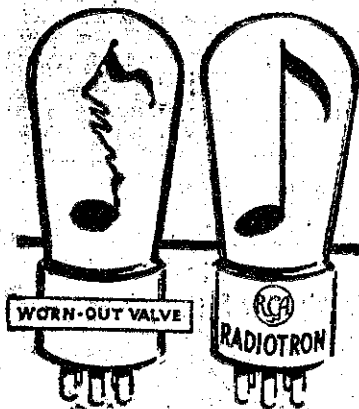
Vol. IV., No. 38.

WELLINGTON, FRIDAY, APRIL 3, 1931.

Price. 3d.

To-day . . . PUT NEW LIFE INTO YOUR RADIO SET

. . . by putting in the radio valves used by more than 200 leading broadcasting stations.



No one knows Radio Valves like broadcasting engineers. *They've got to know!* Inferior valves could ruin the thousands of programmes sent out each year! Hence over 200 leading broadcasting stations use RCA Radiotrons. So far advanced are those

valves that 17 leading radio manufacturers build their sets around them. Remember, a set can't work better than its valves . . . insist on RCA Radiotrons when you buy a new set . . . or when you replace worn-out valves . . . look for the RCA trademark on the red and black carton!

RCA RADIOTRONS

SOLD BY ALL RADIO DEALERS

*The
Heart of
Your
Radio*

Amalgamated  Wireless
(Asia) Ltd.

P.O. BOX 830, WELLINGTON.



PROGRESS!

The Philips Valve is symbolical of Progress because the history of commercial radio has been the history of the valve and the history of the commercial valve has been the history of Philips.

Always have Philips been ahead in valve design. The latest proof of this is the Penthode—greatest tube achievement of to-day and product of the brains of the scientists in Philips Laboratories.

TYPE	PURPOSE	PRICE
F203	Power Valve	17/6
F109	Amplifier (Directly Heated)	13/-
F209	Detector and Amplifier (Indirectly Heated)	18/-
F242	Screened Grid (Indirectly Heated)	27/-
C603	Power Valve	15/-
1560	Full Wave Rectifier	16/6
1562	Half Wave Rectifier	45/-
F704	Super-Powered Valve	50/-

PHILIPS VALVES

PHILIPS—THE VALVES WITH A PAST AND A FUTURE

W64R

Advt. of Philips Lamps (N.Z.) Limited, P.O. Box 1673, Wellington. Auckland Office: Paykel's Building, Anzac Ave. Christchurch Office: 225 Tuam Street.

The Lighter Side of Opera

One of the most interesting figures in the New Zealand musical world is Harison Cook, well-known in Wellington as an operatic bass and teacher of music. On Easter Monday evening he will present a recital from 2YA. In the accompanying article a brief outline is given of his varied career, and in conclusion he relates several amusing incidents which occurred during his wanderings with different operatic companies.

TO be a doctor was once Harison Cook's sole ambition, and to that end he studied medicine for over six years. The call of the stage proved too strong, however, and he gave up his medical career to throw himself wholeheartedly into an extensive study of voice culture and music, under the late Hugo Beyer. He has never regretted it.

His career has been both brilliant and varied, as the following resume shows. He first appeared on the professional stage in comic opera in 1906, while in 1910 he made his debut in grand opera at the Denhof Operatic Festival. For three years or so he toured various operatic circuits on the Continent, and then in 1914 he sang at the Royal Opera, Covent Garden, London—a distinction which he shares with only one other New Zealander. He was then to have appeared at the Stuttgart Opera House, but war broke out, and he joined the artillery.

Following demobilisation, he became principal bass and stage director of the celebrated Carl Rosa Opera Company, and for seven years toured Great Britain. His most valuable operatic training was gained, however, when engaged as principal bass with the Moody Manners Operatic Company, under Charles Manners.

He has sung nearly ninety different bass roles, and has produced over sixty different operas, grand and comic.

A PART from his reputation as an operatic basso, he was well known throughout Great Britain and Ireland as a concert and ballad singer, and many songs, including "The Arguing Wife," which incidentally he is singing from 2YA on Easter Monday night, were specially written for him by the composers.

While talking with the writer he mentioned among other things several amusing experiences which occurred while he was touring with different opera companies. These he relates below. Despite its pomp and dignity, grand opera certainly has its lighter side.

"Well, I'm afraid I cannot tell you much of my views or experiences of broadcasting, for I haven't come into contact with it much at all. In fact, my broadcast next Monday night will be the second occasion on which I

have appeared before a studio microphone. I have often sung over the air before, but, with one exception, only during concert relays.

"I can tell you, however, of some very amusing little incidents which happened during my wanderings with opera companies.

"THE first occurred when I was with the Carl Rosa Opera Company. We were staying at a little town in Wales at the time, and were to present 'Lohengrin' at the local opera house.

"In 'Lohengrin' the curtain for the second act rises upon an imposing flight of steps, complete with balustrades, leading up to an equally ornate building. At the foot of the balustrades are two small pillars, one on each side.

"Well, on the opening night the property master discovered that one of these pillars was missing—lost in transport, probably—and he hit upon the idea of using as a substitute an empty beer-barrel covered with white linen. This he did, and the beer-barrel was duly lifted into place. Unfortunately, as subsequent events revealed, the open end was uppermost. However, it looked very imposing.

"In due course the curtain rose before a hushed and expectant house. The tenor was revealed standing in a dramatic attitude facing the soprano, who was daintily seated on the edge of the disguised beer-barrel. 'The dawn is breaking. Let us away'—or words to that effect—sang the tenor. 'I cannot flee; some spell holds me enchained,' replied the soprano, and with these words she stretched her arm upon which she was sitting, gave way, and she fell backward into the barrel. All that was visible of her was a pair of wildly waving feet. The house collapsed.

"Another time we were producing 'Il Trovatore' at a little town in the north of England. At the conclusion of the second act of this opera, the tenor and baritone are engaged in a sword duel, and the soprano rushes in to stop the fight. Then the curtain falls.

"Well, everything was going splendidly. The baritone and tenor were duly hacking away at each other with gusto, their swords clashing and glittering. The house was tense



Harison Cook.

and still, watching the fight with bated breath. In rushed the soprano to stop the duel. The curtain began to fall. Then, to the horror of those standing in the wings, the baritone was seen to rise bodily in the air, arms waving and legs kicking. His cloak had become entangled in the curtain mechanism, and there he was, suspended between heaven and earth, dignity gone, looking very like a horse suspended by a loading sling. I always remember it as the only time the fight was won.

"The third and last of these catastrophes I can call to mind at the moment took place when we were producing 'Maritana'—I think we were in Birmingham at the time. In this opera the bass takes the part of the King of Spain, who in the first act appears only once, and after one sentence disappears for 102 minutes. I know the exact time, because I played the part myself once.

TO continue the story. In due course the King appeared, resplendent in laces and a broad-brimmed black hat, covering a mass of long, shining 'Charles I' curls, which flowed down over his shoulders. He spoke his part and disappeared to his dressing-room. Here he removed his hat and wig, put on a dressing-gown and became immersed in a book, waiting for his next cue.

"As it happened, the call-boy was late, and when he did appear, breathless in the doorway, the 'King' seized his hat and fled in a very unkingly manner stageward. All eyes were upon him as he stalked majestically up to the Queen and swept his plumed hat off gracefully as he bowed to. (Continued on page 2.)

Pilot Radio Parts

Our Entire Stock to be
Sacrificed at

**33 1/3% off List
Prices!**

We are cleaning out our entire stock of Pilot Radio Parts at 33 1-3% off list prices. Every item guaranteed new stock. Here's your chance to buy at Wholesale Prices. Cash with order. We pay postage on all RETAIL orders of 20/- or over.

	List Price	Clearance Price
£ s. d.	£ s. d.	£ s. d.
Chokes No. 130 E.F.	7 0	4 8
Chokes No. 414 Output 30 henry	16 6	11 0
Chokes No. 395 Double 60 henry	1 18 6	1 5 8
Colls, short-wave	11 6	7 8
Condensers:		
Variable Midget		
J.5 .000015 ...	5 0	3 4
J.7 .000025 ...	5 3	3 6
J.13 .00005 ...	5 6	3 8
J.23 .0001 ...	8 0	5 4
Straight line		
No. 1611 .00016	10 6	7 9
No. 8117 .00038	11 6	7 8
Fixed .00025, with grid clips	3 0	2 0
.002	2 6	1 8
.0001	2 8	1 0
Buffer No. 9110 1 to 1	9 6	6 4
Mounting Clamps for above	5 6	3 8
Adjustogrades No. 1601	3 0	2 0
Microgrades V.M. 80 .00001-.00005	5 0	3 4
Microgrades V.M. 81 .0001-.0005	5 6	3 8
Microgrades V.M. 82 .00025-.001	6 0	4 0
Condenser Couplings, flexible	2 6	1 8
Dials with Escutcheon plates and dial lamp		
No. 1286L ...	18 0	12 0
No. 1283L Double drum	1 14 0	1 2 8
No. 1284L ...	19 0	12 8
Eliminator B. Power Pack No. 111E	8 5 0	5 10 0
Grid Leaks, from 2 to 10 megs.	1 6	1 0
Knobs, Bakelite No. 1257, 1255 1260W	1 0	8
Kits No. 113A Amplifier, with Valves	25 0 0	16 13 4
Kits, A.C. Super Wasp All-wave Receiver, assembled, with valves, pack, etc.	31 10 0	21 0 0

	List Price	Clearance Price
£ s. d.	£ s. d.	£ s. d.
Kits, Wasp All-Wave Receiver (battery)	9 10 0	6 6 8
Resistances, 15 ohm, tapped 5 and 10, for 222 tubes	4 0	2 8
900 ohm. C.T., 2250 ohm. each	4 0	2 8
225, 450, 650, 750, 850, 1,000, 1,500, 2,000 ohm each	4 6	3 0
1,200, 10,000 ohm. each	5 3	3 6
3,000 ohm	5 6	3 8
10, 20, 50 ohm C.T.	1 9	1 2
No. 980, 12,700 ohm, tapped	7 6	5 0
Volumingrads, 50,000, 100,000, 200,000 and 500,000 ohm, each	9 0	6 0
Phone Plugs Beacon	2 6	1 8
Panel Brackets, Bakelite	2 8	1 10
Rheostats, 20 ohm	3 9	2 6
Switches Nos. 42 and 46, each	3 0	2 0
Transformers:		
No. 390, 2 1/2-1..	13 6	12 4
No. 391, 3 1/2-1..	18 6	12 4
No. 413, 3 1/2-1..	10 6	11 0
No. 381, Giant 3 1/2-1	1 10 0	1 0 0
No. 399-401 Push-Pull	1 19 0	1 6 0
400 Output	1 16 0	1 4 0
388 Filament	2 5 0	1 10 0
Terminals, engraved, all markings	9	6
Valve Sockets, No. 216 UX	2 0	1 4
No. 217 UY	2 3	1 6
Radiblox (Audio Boosters) Nos. 301, 303, 305 and 306, each	10 0	6 8
No. 302	1 10 0	1 0 0

ALL GOODS QUOTED SUBJECT TO
PRIOR SALE!
Send your orders now—before it is too late.

ABEL, SMEETON
LIMITED

27-29 Customs Street, East, Auckland.

DEALERS!

Your usual discount will apply to above Clearance Prices.

Opera's Lighter Side

(Continued from page 1.)
the ground. And then a roar of laughter sent him scuttling in confusion off the stage, as he realised what had happened. He had forgotten his wig of curls and he was wholly bald.

"Unfortunately for him he was an American, and for weeks afterward he was the butt of the would-be humorists making rude remarks about the bass who lost his scalp."

Volume of Signals

A VERY interesting fact regarding the volume of signals received by listeners on amateur bands may be somewhat cleared up by the following explanation. One would naturally not expect to hear an amateur station with 100 watts come in as loudly as a 500 watt B.C. station, but omitting skip we find that the B.C. station, say, on 720 k.c. transmits 720,000 cycles per second, and an amateur 3,500,000 cycles per second.

As the electromotive force generated in a generated circuit is proportionate to (1) the field strength, (2) speed of cutting, and (3) the number of inductors, it will be readily seen that the B.C. station sends out 720,000 waves, and the amateur 3,500,000 per second. Therefore the listener is receiving five times as many cutting lines of force per second through his aerial than from the B.C. station. Working this out, the amateur with 100 watts would be giving approximately as much electromotive force to the receiver as the 500 watt B.C. station; field strength also may be such as to work the receiver to maximum in each case. It is quite possible to receive a low power short-wave station as loudly as a medium power B.C. station.

Skip assists the shorter waves by having the field strength much greater at the receiver than is possible with the longer waves.—R. Clark (ZL2AW).

Radio in Egypt

Rome Station Popular

EGYPT and Italy, united in the days of the Roman Empire under the Caesars, are again being drawn to each other culturally through the twentieth century bond of radio broadcasting.

This was among the interesting observations made by the export manager of one of America's largest radio manufacturing firms, who has just returned from a 15,000 mile trip which carried him through Northern Africa as well as across Europe.

The principal source of radio programmes in Egypt is the great new Italian broadcasting station in Rome, one of the most powerful in the world, with a power of 50 kilowatts, but capable of being stepped up to 100 kilowatts. Interest in radio programmes, Mr. Avery (of "Atwater Kent" Corporation) found, has increased decidedly in Egypt and in Algeria since the opening of the new Italian station. The splendid musical entertainments are particularly appreciated.

The Egyptian Government itself, he says, has become interested in radio and plans to modernise the desert by erecting three high-powered transmitting stations. King Fuad has taken the proposal in hand personally, and under plans already formulated three large

Three Talented

To Appear from 4YA

THREE vocalists of outstanding calibre will appear on 4YA's programme for Wednesday, April 8. They are: Margherita Zelanda, Miss Mary Pratt and Mr. Arthur Macdonald.

Miss Pratt is one of the finest contraltos in New Zealand, while Mr. Macdonald is a brilliant baritone.

Margherita Zelanda (perhaps better known in New Zealand as Miss Daisy Hall) is a brilliant coloratura soprano, popularly designed as "New Zealand's Song Bird." She is to make her debut to a New Zealand radio audi-

Remember

Saturday 4

**Eight O'Clock
Revue**

**From 2YA
Sparkling Comedy
Breezy Sketches
Catchy Songs**

Will Bishop, Elsie Croft,
Gretta Stark, Will Hancock,
Ray Kemp, Rita Kemp.

ence. Zelanda has recently returned from Italy, where at Palermo and Milan she pursued and completed her studies under the eminent maestros Professor Benedetto, Morasco and Manlio Ravagnoli. 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. Her recital from 4YA will include solos from operas, besides charming ballads.

oases have been chosen as the sites for the stations. Supplementary services will be had through six mobile stations located at strategic centres in Egypt and the Lybian desert.

Mr. Avery's African travels took him into French Morocco and Spanish Morocco. Here the very old and the ultra-modern in communications meet, for it is not unusual to deliver radio receiving sets by camel caravan, one of the means of transportation between the seaports and vast stretches of the hinterland. The chief market for receiving sets is found among the handfuls of foreigners scattered over North Africa. The native population, pastoral or nomadic, has little interest in radio.

From Spanish North Africa he travelled to Rumania, arriving in Bucharast in time to broadcast at the opening of the Bucharast radio show.

Third Annual Radio Picnic at 4YA



THE third annual 4YA radio picnic was held on Saturday, March 21, and was a complete success, if the numbers may be taken as evidence. The story of the 4YA picnics is one of increasing popularity. The first picnic in 1929 established itself among Dunedin's biggest events by an attendance of 1500; the second in 1930 taxed to breaking point the city's largest motor transport organisation and became the biggest annual picnic by an attendance of nearly 3000; the 1931 picnic just held eclipsed all previous records by an attendance of nearly 4000. This year the Government Railway Department was called upon to carry the enthusiastic crowds to Evansdale, a beautiful spot about 16 miles from Dunedin, and did so in four special trains.

Dunedin weather is noted for being capricious, and it confirmed its reputation. Friday was as delightful a late summer day as could be enjoyed anywhere, but Saturday was overcast, with drops of warm rain threatening to spoil all arrangements. The streets were wet when the first crowded special pulled out of the Dunedin station. The skies were still overcast at Evansdale, but fortunately no rain fell.

There is no sight on earth quite as attractive as a great crowd of children in many coloured holiday attire, setting out enthusiastically to enjoy a picnic. When the thousands were scampering about the picnic field it looked as though the sober green grass had grown a garden of many coloured flowers overnight. Nor were they all in the picnic paddock. Evansdale is noted for its charmingly beautiful Glen, a natural rift in the hills stretching into the back country and covered with thick native bush. The Glen abounds in the mysterious nooks and adventurous places dear to the heart of a boy, and hundreds of boys became full-fledged explorers, for one day at least. A little stream runs through the Glen, not anywhere deep enough to cause the smallest flutter of anxiety, but rich in the small fat tiddler trout that constitute a living temptation to a boy with a line and a bent pin. Scores of boys fished all day and caught nothing, which, as every fisherman knows, does nothing to mar the thrills of anticipation. Evansdale also boasts a beach of sorts. The breakers roar a mile away from the place where the last tired ripple comes to rest, and half of that mile is only knee deep at full tide. There were some bold youngsters who donned bathing suits with eager delight, and succeeded in getting wet only to the shins, but most were content to paddle.

While many were entertaining themselves in this fashion, hundreds of others were enjoying the sports and games on the field. Uncle Pete, Uncle Jack and Uncle Alec were the sports committee, and did their work without either a hitch or a complaint. There was a little excitement when Big Brother Bill entered one race with fifty yards' start in the hundred. Although he won the race with about a yard to spare there didn't seem to be any prize. In another part of

Bigger and Better

the field a great crowd was watching the pillow fight in progress. Hefty youths wielding sugar bags stuffed with hay were battering each other, sitting astride a pole. It was a Homeric contest, but no blood was spilt, and nobody's feelings were hurt. In yet another place youngsters were trying to climb the greasy pole. It wasn't very high, but too high for those that tried to reach the ham on the top.

Mr. Pritchard, the ventriloquist, captivated everybody with his wee doll that seemed to know so much and speak so well. Thousands of bairns laughed their delight at its quaint antics, and at least one small mite wept when Mr. Pritchard put his doll back in the box.

Aunt Leonore and Aunt Sheila played games with the tiny tots in another part of the field; while Aunt Dot and Aunt Anita could not be found anywhere. They were in a secret

place doing mysterious things with endless small bags and tins of lollies. When the time came to disclose themselves and the good work they had been doing, there were no more popular radio aunts or uncles on the picnic ground.

Lollie distribution was like the beginning of a rather sticky war. Thousands of children mobbed the aunts and uncles. Big Brother Bill tried to relieve the pressure by grabbing a tin of lollies and running up the picnic ground scattering sweets as he ran. It was soon unequivocally proved that Big Brother Bill was simply nowhere as a harrier. The aunts and uncles who stayed in the hall and threw the lollies through the window were much wiser and more comfortable. The air was full of small bags of lollies bursting like bombs wherever they came down.

The treasure hunt, a feature of 4YA's picnics in past years, was chang-

ed into a hunt for the mysterious man with the treasure to give to the fortunate child who discovered him. When this began every man on the picnic ground was besieged by eagerly questioning children. The policeman even did not escape, although, when the pressure was the hottest, he did his very best. It was quite a novel change to see a perspiring policeman trying to evade hundreds of children, although his trying to escape by running really made the matter very much worse. The treasure was found at last in the pocket of an exhausted newspaper reporter.

Between three and four hundred children were the guests of the Broadcasting Company, being in this fortunate position because they had helped Brother Bill in his sessions during the year. Tables were spread in the orchard for them, and they partook liberally of food provided at lunch and tea. A group of Girl Guides did splendid service in assisting the uncles and aunts in serving tables. Wendy, who is a Guide captain, did excellently well in charge of these.

Although every necessary precaution was taken in the presence of Red Cross Nurses and St. John Ambulance men, once again it has to be recorded that their valuable aid was not needed. There were no casualties of even the minor type during the whole happy day. Although the precaution was taken to invite the Otago Motor Club's motor patrol to be on hand in case any of the scores of motor-cars needed doctoring, there was no casualty here either.

The special trains left Evansdale at dusk, carrying thousands of tired but happy children home again. The newspapers recorded what seems to be the unanimous opinion that the 1931 radio picnic was the biggest and best yet.



EASTER

Appropriate broadcasts from all
Y A Stations

Good Friday

CHURCH SERVICES
With specially-arranged
Concerts to follow 1, 3, and
4YA on Morning Broad-
casts.

Easter Saturday

SPORTING BROAD-
CASTS.
1 and 3YA on Morning
Broadcasts.

Easter Sunday

MORNING SERVICE
from 1YA.

Easter Monday

SPORTING BROAD-
CASTS.
ATTRACTIVE
PROGRAMMES.
No Silent Day for 1YA.

Radio Abroad

ONE of the first radio-museums, in which will be displayed inventions pertinent to radio progress from the earliest crystal sets to television apparatus, is being installed in a huge broadcasting centre in Berlin, Germany. Beside the museum, there will be studios and laboratories for radio research. The building anticipates the proposed "Radio City" to be constructed in New York City.

THE following advertisement from a Californian daily newspaper needs no explanation:—

"There is one bootlegger in Susanville who is known to this committee and who has a whisky ageing machine. This machine is a nuisance to radio enthusiasts of Susanville, and unless this bootlegger, who is known, removes his machine from Susanville, warrants will be sworn to for his arrest for violation of the prohibition law and for violation of the city ordinance covering radio disturbance.

"Signed.

COMMITTEE"

The New Zealand Radio Record

—AND—

Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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

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

WELLINGTON, THURSDAY, APRIL 2, 1931.

TECHNICAL PROGRESS OF RADIO.

WITH the publication of the "Radio Guide," which marks the opening of another radio "season," we naturally look back over the twelve months that have elapsed since our last Guide came out and point out the salient features of radio progress. We said that we were on the threshold of a "radio season." That term, though serving our purpose as a definition, is not quite correct, for one thing the radio designer has accomplished is a reduction of the marked difference that once existed between the "seasons." Radio now is almost as popular during the summer as it is in the winter, and this is due mainly to the introduction of the powerful sets we have to-day.

Twelve months ago, the a.c. screen grid receiver had just made its appearance in this country. To-day it is established, and the number of receivers coming into the country otherwise equipped are very small indeed. The audio side, too, has been improved, and in many cases the unsatisfactory audio stages have been eliminated. The receiver to-day is as sensitive as atmospheric conditions will allow. Were it any more powerful, the noise level would be increased to a degree that would render listening impossible. This point is an important one, and to some extent has been responsible for the reduction of the number of stages in many of the sets. There were far more electric four valve sets sold last year than there were the year before.

This brings us to another important development, the midget receiver. It has been popular and to all appearances it will be increasingly so next year, for already midgets with gramophone combinations are available. This reduction of the size of the set is almost universal. Taken all round, the aim of manufacturers is to eliminate a large percentage of the waste space in the console receivers, for "compactness and efficiency" has been the slogan of the makers of modern sets. Another interesting development has been the extension of the set's functions. Last year it was very successfully combined with the gramophone, and this example has been followed up with the introduction of apparatus for home recording and the recording

of items broadcast. Though somewhat of a novelty at present, there is no doubt that this additional feature will be one of those to make the 1931 set distinctive.

The superheterodyne receiver has reappeared with the releasing of certain patents held by an American corporation. Most manufacturers considered the decision to make the patents available came too late in the season to take advantage of, but with the factories now working at their maximum it is likely that the superheterodyne will be manufactured by a large number of firms.

Television seems as far removed as ever. Although interesting demonstrations have been given none were sufficiently convincing to entice manufacturers to begin the production of receivers. The transmission of still pictures, however, is quite an accomplished fact, and trans-oceanic picture services are now in great demand. A more important link between countries is the radio telephone service, which has this year been widely extended. At this stage most important countries are connected up.

Short-wave transmission and reception has come much more to the fore. Far more general listeners are being attracted to this department of radio, and manufacturers are giving them consideration in producing electric combination receivers for long and short wave. It is a wise move, for even at present there is real entertainment value to be had through listening to these transmissions. The superior carrying power of these frequencies has alluring possibilities, and it appears that during the forthcoming year many transmitting stations will send out regular programmes on these bands.

Radio is fast settling. We need not worry about revolutionary inventions, for with the high standard now reached it appears as though attention will be directed to cabinet design, the addition of the gramophone, short-wave adapter, tone control, remote control and a host of other refinements.

English Agricultural Expert

To Speak to Farmers

FARMERS are advised to tune in 2YA at 7.40 p.m. on Monday, April 6, to hear a talk by Mr. Walter F. Giles, A.H.R.H.S., of Reading (England); on the subject of "Plant Breeding and Seed Production in England."

Investigation of seed-growing possibilities has brought Mr. Giles out to New Zealand. He is an Associate of Honour of the Royal Horticultural Society, an award bestowed upon him for distinguished services, and he is a member of the vegetable committee of that society. He has also had the honour of explaining to the Prince of Wales the plant-breeding work being carried out in experimental grounds at Reading.

Broadcasting Copyright Music

Interesting Test Case

THE American Society of Authors, Composers, and Publishers propose to collect a royalty fee for the reproduction of copyrighted music broadcast by radio and received in the lobby of a certain Kansas City hotel.

The case is regarded as vital to American broadcasting, especially in view of the increasing use of radio receivers in public gathering places, including theatres. Counsel for the defence contends that broadcast reception is not a performance of a musical composition, and that, if it is, the broadcaster does not perform publicly.

Copyright holders are empowered under the law to collect royalties for the

Will Bishop on the Films Again

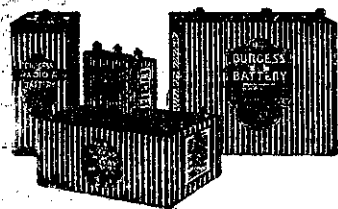
SOME considerable time ago the Government decided, very wisely, to film many of New Zealand's beauty spots and circulate these abroad. Many people who have made the trip to New Zealand will have seen some of them on the boat, others are shown in other countries.

With the advent of the talkies and the possibilities of sound synchronisation, these films are being brought up to date. Descriptive dialogue has been prepared, and the background is filled in, with specially-written orchestral scores. At the present time, two of these films are being shown in New Zealand theatres, one in Dunedin and the other at the Regent Theatre, Wellington. It is interesting to note that the commentator in both of these films Mr. Will Bishop, well-known to 2YA listeners.

The orchestration is in the capable hands of Mr. Mat Dixon, who has written and presented the special scores. His Salon Orchestra, which broadcasts regularly from 2YA, does excellent service in maintaining a musical background.

In Wellington the film "Rainbow River" is running. This depicts the very beautiful scenes along the Waikato River. One sees the trout fisher at his sport, the tumultuous falls, and the placid "wides"; the boiling pools in which the natives prepare their food. It is a picture well worth seeing and hearing.

public performance for profit of their compositions, and the broadcasters now pay royalties aggregating approximately 1,500,000 dollars annually (£800,000) for the right to use copyrighted music.



**BURGESS
RADIO
BATTERIES**

Australian Programmes

Times Corrected for N.Z.

Thursday, April 2.

STATION 2FC, 9.30 p.m., 9.37 p.m., and at intervals throughout the evening, the A.B.C. Military Band; 9.40 p.m. and 11.11 p.m., Alfred Wilmore and Myra O'Neill, duets; 10.4 p.m. and 11.4 p.m., Joyce Lang, harpist, and Inez Lang, violinist.

2BL, 9.30 p.m., "His House in Order," a play by Sir Arthur Pinero, to be presented by the H. W. Varna Company; 11.10 p.m. and 11.24 p.m., John Warren, tenor.

3LO, 9.30 p.m.: "Fifteen Minutes of Period Music." 9.45 p.m.: Dance items, interspersed with vaudeville numbers.

8AR, 9.45 p.m.: Programme of selected recordings.

Friday, April 3.

STATION 2FC, 9.30 p.m.: Wagner's prelude to "Parsifal." 9.40 p.m.: "Good Friday," a play in verse, by John Masefield. 11.45 p.m.: Meditation music from the studio.

2BL, 9.30 p.m. and 10.3 p.m.: G. Vern Barnett, organist. 9.37 p.m., 10.20 p.m., and 11 p.m.: Hulstone Park Choral Society. 9.44 p.m. and 10.37 p.m.: Carl Budden Morris, pianist. 9.56 p.m. and 10.49 p.m.: Leonore Gotsch, soprano. 10.13 p.m. and 11.7 p.m.: Albert Cazaubon, violinist.

3LO, 9.30 p.m.: Programme as given for 2FC.

8AR, 9 p.m.: Relay from St. Paul's Cathedral of "The Crucifixion." 10.15 p.m.: Sacred concert, relayed from Bal-laret Hall.

Saturday, April 4.

STATION 2FC, 9.30 p.m.: The A.B.C. Players present "Pandora's Box," a radio revue. 10.30 p.m. and 11.15 p.m.: Jack Lumsdaine. 11.1 p.m. and 11.25 p.m.: Douglas Graham, comedian.

2BL, 9.30 p.m., and at intervals throughout the evening, the A.B.C. Dance Band. 9.37 and 11.14 p.m.: Bar-end Harris, baritone. 9.51 p.m. and 11.31 p.m.: Bob Strother, entertainer. 11 p.m. and 11.48 p.m.: Billie Oresswell, popular vocalist.

3LO, 9.30 p.m.: "April Antics," No. 2 of the "Monthly Reviews."

B Class Stations

LAST week we published a letter from Mr. H. Booth denying on behalf of the B class stations that a recent deputation of their organisation to the Postmaster-General had raised the question of sponsored programmes as we had stated on the authority of an informant. We find that Mr. Booth's statement is correct and our informant on this occasion was in error. An injustice was therefore done Mr. Booth last week, which we have pleasure in rectifying.

3AR, 9.30 p.m.: Relay of concert by the Mount Pleasant Old Scholars' Association.

Sunday, April 5.

STATION 3LO, 9.30 p.m., 10.4 p.m., and 10.21 p.m., St. Augustine's Band. 9.40 p.m. and 10.57 p.m.: John Hobbs, baritone. 9.47 p.m. and 10.50 p.m.: Stanislaw de Tarczynski. 10.14 p.m. and 11.26 p.m.: Colin Thomson, tenor.

3AR, 8.30 p.m.: Divine service from St. Paul's Cathedral, Melbourne. 10 p.m.: Relay from 2BL.

Monday, April 6.

STATION 3LO, 9.30 p.m.: "A Dream of Egypt," a musical fantasy. 10 p.m.: "Gala," a novel entertainment. 11.8 p.m. and 11.37 p.m.: "Jack and Jill Propriety Unlimited" will entertain. 11.22 p.m. and 11.44 p.m.: Syd. Hollister, comedian.

3HR, 10 p.m.: Programme of dance music and variety.

Tuesday, April 7.

STATION 3LO, 9.30 p.m.: "Sea Shanties, sung by members of the Ship Lovers' Society. 10 p.m.: Chamber music by the A.B.C. String Quartet. 10.30 p.m.: "U.S. and Us," a talk by Mr. Herbert Brookes, late Commissioner-General for Australia in the United States. 10.5 p.m.: A.B.C. Wireless Military Band numbers, interspersed with novelty items.

3AR, 9.50 p.m.: Programme of studio reproductions.

Wednesday, April 8.

STATION 3LO, 9.30 p.m.: "You Never Can Tell," a four-act comedy by Bernard Shaw. 12.5 p.m.: Dance items. 3AR, 9.50 p.m.: Concert by the Royal Victorian Institute for the Blind.

KNOW the time all over the world with a
DX Clock.
9d. Each.

Radio-Equipped Police Patrol

Exciting Experiences

THE police of West Australia are having the same exciting experiences with their wireless equipped patrol cars as has been the case in Sydney and Melbourne during the past four or five years.

Just before radio was provided for the use of the police, the Department was equipped with a patrol car of some-



MR. JOCK LOCKHART, a popular 3YA comedian, who is appearing on the programmes this week. It will be remembered that during the Christmas holidays he broadcast from other N.Z. stations.

what ancient design, and on one memorable occasion a party of detectives in this car had the experience of seeing a party of motor bandits outdistance them on a straight road in a new modern car. The wireless patrol is now provided with a car capable of nearly one hundred miles an hour.

Recently as the patrol was quietly plying along the streets of Perth a call from headquarters advised that a burglar was working in a house at Claremont. At the moment the police car turned into the street a man dodged into a receding alcove, but he was just too slow to escape notice. He was subsequently captured, and is now in gaol.

On one dark night a trio of motor thieves, finding themselves being overtaken by the police wireless car, sud-

Taxing American Listeners

Attempt Fails

AN important legal precedent has just been established in American radio law by the decision of a Federal Court. The Court was called upon to test the validity of a law passed last year by the State of South Carolina providing for a graduated wireless tax on wireless sets. This was the first law passed in the United States attempting to raise revenue by this means. It proposed to levy all owners of receiving sets in South Carolina an annual tax rising progressively to a maximum of 3.50 dollars (10s.) per set.

The Federal District Court for the Eastern District of South Carolina held that the law was unconstitutional, as being an interference with inter-State commerce (which is under the jurisdiction of the Federal Government) and could not, therefore, be enforced. It held that Station WBT, a party to the action, was engaged in inter-State commerce, as its programmes are received beyond the confines of its State of domicile.

A decree was granted restraining the collection of the proposed tax on receiving sets. A special Court, consisting of three judges, heard the arguments of counsel. The action was brought by Station WBT, of Charlotte, North Carolina, a retail wireless dealer, and a broadcast listener.

denly stopped in a cloud of dust, placed the car cross-ways on the road, stirred up more dust, and ran into the scrub. The object, of course, was to cause the patrol car to collide with the abandoned car, and the attempt was very nearly successful.

Several times within the last few weeks the Perth Police, by responding to an urgent call by wireless, have captured thieves with the booty still in their possession. Altogether, the wireless service is proving a potent ally to the custodians of law and order.

YOUR BAGGAGE
INSURED against loss
or damage from any cause

The premium is moderate
the cover is **WORLDWIDE**
Offices in all principal towns
and cities throughout New Zealand

NORTH BRITISH & MERCANTILE
INSURANCE CO. LTD.

ARE YOUR HANDS TIED?

Are you bound down because you have never learned to do any one thing well? To thousands of men like you—hands tied, but eager to break free—I.C.S. training has brought success. No matter where you live, the I.C.S. will come to you. No matter what your handicaps, or how small your means, we have a plan to meet your circumstances. Without cost or obligation let us prove that we can help you to get a better job and a bigger salary. Write or call.

Hundreds of Courses to choose from.

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

1822 WAKEFIELD ST., WELLINGTON

Metrodyne
STERLING MODEL ELECTRIC

THREE SCREEN GRID

POWER DETECTOR
PHONO VOLUME
RICH TONED
DYNAMIC

145 Push-Pull Power Audio

£26 CHASSIS SPEAKER	£30 CHASSIS SPEAKER	£34 TABLE COMBINATION COMPLETE	£39 WALNUT CONSOLE	£58 RADIO- COMBINATION
----------------------------------	----------------------------------	--	---------------------------------	-------------------------------------

WRITE FOR DETAILS—DEALERS USE LETTERHEAD—TO N.Z. AGENTS

ROYDS-HOWARD CO.
533 COLOMBO ST. CHRISTCHURCH



The World's Best Midget "LYRATONE" 62

Retails in New Zealand £22/15/- is 4 SCREEN-GRID 6 A.C. Tubes. PHONO-COMBINATION MODEL 2, £37. Price includes 230-volt circuits. Nothing extra for Transformers or other "gadgets." It's Giffillan's and ITS THE GOODS. See Fear & Co.'s Window this week. Shipment ex "Waihemo."

GET YOUR ORDER IN EARLY.

Wellington Agents:
F. J. W. FEAR & CO.

Wholesale:
CRAWFORD & FINLAYSON, LTD.,
Wellington.

Children's Sessions

AT 2YA.

MONDAY, APRIL 6.—Another playlet this evening. It is called "The Broken Cup," and will be acted before the microphone by the little pupils of Miss Zena Jupp. There will be songs and choruses during the play, and we will hear all about the "Willow Pattern." Uncle Jeff and the Kipling Lady have had two seats reserved for them.

TUESDAY.—To-night Joyce, Betty, Ngaire, Hope, Gladys and Ann will provide items, singing songs, and playing on pianos, violins, vibraphones, and mouth organs. Uncle Toby and Jumbo will join in the fun, and send out Birthday Greetings.

WEDNESDAY.—Another "Meeting Pool" story to-night, and songs and choruses by the Cheerful Chirpers. Cousin Nita will play her mandolin, and Cousin Marian the piano.

THURSDAY.—Miss Kathleen Hume is bringing a party of children down to the studio this evening. A special feature will be the part songs, sung by Joan and Gretchen. One of the part songs is original, and will be sung to ukulele accompaniment. Uncle George and Big Brother Jack will sing duets, and play popular airs on tin whistles.

FRIDAY.—To-night, pupils from Miss Myrtle Lee's studio will take part in a sketch called "Cinderella."

SATURDAY.—Aunt Molly has been invited to a Dolls' Tea Party this evening, and a special invitation on such pretty doll paper has been sent to Uncle Jasper and Spot. There will be a little concert by all the different dollies, when "An Everyday Dolly," "Dolly's Bath," "The Lost Doll," and "The Dolly's Wooing" will be among the items on the programme.

SUNDAY.—There will be present at the studio to-night, the Children's Choir from St. Jude's Anglican Church, Lyall Bay, under the leadership of Mrs. Lewis. The services will, as usual, be conducted by Uncle George.

APPARATUS designed to sound an automatic alarm should the wireless operator be off duty when an S.O.S. signal is sent out from a ship in distress, is now installed on over a thousand ships. Thus no call for help can go unanswered while ships fitted with the device are within range.

NOTES and NEWS
from the NORTH

(By "Call Up.")

THE running description of the Oxford and Cambridge boat race which was broadcast by 5SW, Chelmsford, last Saturday week was picked up and rebroadcast by 1YA early on Sunday morning. Although a good deal of static was about, Auckland listeners were able to hear a clear description of the race, and 1YA's effort was undoubtedly both successful and appreciated.

LAST May on the evening that the results of the Parnell by-election were announced the 1YA main programme was supplied by the Auckland City Mission led by the Rev. Jasper Calder, live-wire city missionary. On May 6 this year 1YA will announce the results of the municipal elections and again Jasper Calder's party will supply the bulk of the evening's entertainment. Something novel can be looked for here.

AN interesting presentation to be given from 1YA shortly will be the three-act play "And So To Bed," by Fagan. This play is about that celebrated old diarist Pepys and was very well received in London when presented there a year or two ago. The local radio production will be in the capable hands of Mr. W. J. Bailey, well known to Auckland listeners.

ALTHOUGH numerous Aucklanders who fail to take out licenses for their receiving sets ultimately find themselves prosecuted, it is seldom that an unlicensed transmitter is brought to court. However, transmissions from unlicensed stations have been causing interference with ordinary broadcast reception in Auckland for some time, and last week three unlicensed "hams" were prosecuted, one being fined £15 and two £10 each.

FOR some time it has been rumoured in local radio circles that another Auckland radio exhibition was to be held. This idea is now being definitely considered and is very likely to eventuate. The second week in May has been scheduled for the exhibi-

tion if it actually takes place. The last radio exhibition held in Auckland was in October, 1929, when the show put on at the Town Hall for a week aroused much interest.

MR. WYNNE SMITH, who has for some time conducted the Auckland Artillery Band, well known to 1YA listeners, has resigned this honorary position. Mr. Smith will be badly missed, as he is a brilliant musician. Unfortunately he has not been blessed with the best of luck in recent times, and all who know him or who have heard his work with appreciation will wish him better fortune in the future.

THE Orpheus Musical Club will give another concert from 1YA on April 30; and Mister Ree will commence another series of Radio Magic on May 1.

SPECIAL features from 1YA in connection with Anzac Day this year will be the relaying of the service from the Auckland Town Hall at 11 a.m., and a relay description of the ceremony at the Cenotaph at 3 p.m.

TWO artists who are to make three appearances each from 1YA during April are Denis Sheard, tenor, and Gwladys Edwards, soprano, both of whom come to the microphone with a great reputation. Mr. Sheard comes to Auckland from South Australia, where his singing earned high praise.

THE Northern Boxing Association, which has since last year permitted the broadcasting of its contests, has once again changed its mind about the question, and has now placed a veto on these relays. It is disappointing news to listeners, and there is little doubt that the boxing authorities will also be disappointed at the result of their decision, for, as the wrestling relays have proved, broadcasting tends to increase actual attendance, rather than diminish it.

EARLY in May the 1YA Orchestral Octet and the 1YA Choir will combine in presenting a programme of popular old-time songs. These will be songs that were popular thirty, forty, and fifty years ago, and as our fathers and grandfathers will vouch, they were jolly songs with plenty of spirit, and every bit as good as our modern "theme" songs. Also to be heard from

The 1931 "Radio Guide" is now available.

180 pages brim full of useful and interesting information.

Price 2/6. All Booksellers and Dealers.

Jottings from 3YA

Impending Broadcasts

A SAXOPHONE band of about 20 players, formed and trained by Mr. Harry Glaysner, the well-known harpist of 3YA, will shortly be heard "on the air."

The Cottage Scene from "The Lady of Lyons" is to be produced at 3YA on Friday, May 1, by Mr. H. L. Shaw, Miss Naire Hooper and Miss Daisy Armstrong.

A performance of Wagner's "Tannhauser," to be produced in the Civic Theatre by the Royal Christchurch Musical Society on April 29, is to be broadcast by 3YA.

A series of talks by the Sunlight Health League will shortly be given at 3YA.

Mr. Karl Atkinson, well known to 1YA listeners for his lecture-recitals on gramophone recordings and who is now on the head office staff of the Broadcasting Company at Christchurch, will be heard from 3YA on Friday, May 1. The theme of his talk will be "The Lure of the Waltz."

Professor Zimmerman, who recently delighted 3YA listeners on his first appearance at the Christchurch station as a violinist, is to give another recital on April 30. His items will have orchestral accompaniment.

The next lecturette by Mr. Te Ari Pitama at 3YA will be on "My People."

The Bailey-Marston Dance Orchestra is shortly to give a vaudeville programme at 3YA.

On Anzac Day a service to be held in the Christchurch Anglican Cathedral will be broadcast. Mr. Frank Milner, C.M.G., Rector of Waitaki High School, will be the speaker.

The Law with Regard to Radio

"THE Journal of Radio Law" is the title of a new American quarterly publication, which will make its first appearance in April next, under the editorship of Mr. Louis G. Caldwell, a Washington attorney and former general counsel of the Federal Radio Commission. The journal will be published under the auspices of various American universities and law schools.

Such is the complexity of radio rules and regulations that the editor should experience little difficulty in filling his pages.

1YA in May is a new revue combination which will commence a regular series of programmes that month.

ON April 23, the anniversary of William Shakespeare's birthday, a special Shakespearean programme will be presented from 1YA. This will include scenes from the plays, recitals of well-known passages, and songs of Shakespeare's time. What better claim to immortality could Shakespeare have than that in this modern bustling age of new ideas, inventions, and sciences, his wisdom, wit, and beauty of diction are still so valued that they take an honoured place among modern radio programmes? Possibly a broadcast such as this does something to convince those who crave nothing but dance music from radio that there are other things worth hearing.

All-Electric Receivers

AT PRICES TO SUIT ALL

The COURIER A.C. SET and SPEAKER £11/15/-
PHILIPS Q.P. SET and BABY GRAND SPEAKER .. £14/14/-

PLYMOUTH Screen Grid MANTEL SET, with Dynamic Speaker £22
ROLA Screen Grid CONSOLE MODEL £38

CASH OR EASY TERMS ARRANGED.
REPAIRS TO ANY MAKE OF SET.

G. G. MacQUARRIE Ltd.

120 WILLIS STREET :: :: WELLINGTON.

American Programmes.

THE American programmes are most interesting and enjoyable, though they show that our own R.B.C. standard is not at all bad. The music I cannot criticise. It sounds beautiful, and we seldom hear a big orchestra from our own stations. The weakest part is the "Ambassadors"—merely rubbish, with a different dressing. The humour is clean and pleasing, if not too deep. As to the accent question, we have our announcers to correct us during the rest of the week.

Now that we have heard one (either). Now that we have heard one type of foreign programme, I hope we shall soon be hearing them from many other countries. It would have been more complimentary to us, as British Empire citizens, to have given us an English programme first, but I suppose the truth is that the U.S. is so far the only country to manufacture these "potted programmes." In conclusion, I would like to state that I do not possess an American set or an American car either, and that nothing would induce me to buy either so long as there are any British workmen left on the dole.—"British Parts" (Walkato.)

Dance Orchestra.

IN answer to the correspondent "Musician," Gisborne, regarding my previous remarks in the "Record," I really cannot see where my remarks were too sweeping, also that you have agreed with all I said. Referring to the latter part of your letter regarding the jazz band in question, I certainly did hear that brass player. It struck me at the time that he was playing a B flat instrument, when he should have been playing an A. Where on earth the leader was I cannot for one moment imagine. The average jazz players rely on the ear too much, unfortunately (for the listeners).

They hear an American record playing what they term "hot chorus," and they try and do it themselves without first dissecting the chords, and writing another. These different American bands have their own arrangers to do that sort of thing. I have properly studied this class of work, and have come to the conclusion that the general public does not want this sort of trash (hot playing), that is why the British dance bands are now swooping the pool.

Take any record of a first-class British dance band and you will find that they play straight, with plenty of harmony, and when they feature a solo, chirpers in are not wanted.

Many thanks, "Musician," for the compliment paid my orchestra. The secret to this is: All my instrumentalists are first-class orchestral players, and are capable of putting over an operatic programme as well as the everyday light popular music.

Before broadcasting it is essential that all instruments are in pitch five minutes at least before the item. One player is sent off to see that all the instruments are in tune. Again, rehearsals are a very important item; no band can sit down and play a programme without sufficient rehearsals. A day or so ago I was asked in the street if my orchestra played a certain piece over the air on Friday evening, when I told this person I did. He replied, "Well, that has cost me 10/-." I bet my wife it was a record.

I'll tell you the reason: My orchestra consists of seven players. The instruments played are as follow: Violin, bass violin, Spanish guitar, tenor banjo, vibraphone, dulciana, flute, three sax-

Our Mail Bag

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

phones, three clarinets, trumpet, and piano, besides the vocal chorus. This is where I obtain the variety that every listener wants.—Reg. Morgan, musical director, Reg. Morgan's Concert and Dance Orchestra.

A Protest from Wanganui.

ADVANCE Wanganui! Yes, advance by all means. A good aerodrome, a beautiful river, but no wireless station. There was a time when two of our radio dealers vied in the

quality of their programmes, which were greatly appreciated by all listeners in. But nowadays set-owners may search our station's wavelength and never hear a sound. Crystal set owners tear their hair and listen in vain for the music so familiar in days gone by. Sometimes, with luck, fragments of music are received from Wellington, but this is always accompanied by a liberal supply of static. We have asked our dealers to return to the realm of Radioland, but they say they

cannot afford the copyright subscription. Why should one body of men spoil the entertainments of hundreds of people? And even now the listeners of Wanganui take it lying down. Why don't they band together and enter a protest against those who have been responsible for putting our station off the air? Buck up, Wanganui!—"Three Indignant Fans" (Wanganui).

IN the "Record" of February 20, I made a suggestion that listeners give their views on Government control. So far nobody has given the matter a thought. I wonder why. We have all heard that saying, "Sailors don't care." Does the same apply to those who pay their 30/- per year? I think that it does, or else before it is too late they would be saying something. Do you consider that it would be to everybody's advantage if some of the B stations here and over the water altered their wavelengths so as not to spoil each other's transmissions? I happened recently to get down on 2YB's wavelength and along came 2NC, and tried to put 2YB in the background. A friend asked me if I had China, so I tuned to 4ZM, but heard the same reception there. He then told me he would stick to the gramophone till things improved. So you see, Sir, that is what happens. How easily people can get a bad impression of radio. Hoping that the Broadcasting Company will have their license renewed.—"Just One" (Otiara).



Columbias keep their voltage

Instead of the old cylindrical cells, Columbia Layerbuilt Batteries are built of flat layers of current producing materials. They hold more ampere hours; their voltage **stays up**. Their immense superiority means greater volume, clarity and distance to your radio; it means economy also to your pocket.

COLUMBIA

TRADE MARK

RADIO BATTERIES

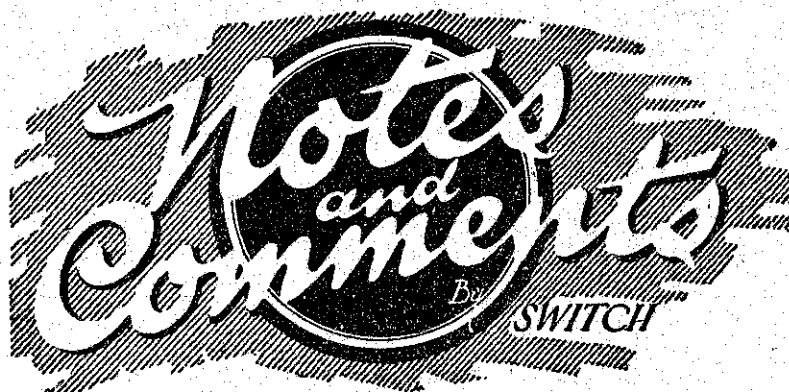
Factory Representatives: Ellis & Company, Ltd.,
Chancery Chambers, O'Connell St., Auckland.

"SWITCH" has found that while the Australian stations have been coming in with great volume, the audibility of the Japanese stations has been ebbing somewhat. 5CL, Adelaide, and 7ZL, Hobart, are now available at satisfactory loudspeaker volume every night. Static has not been excessive, but fading has been a little more pronounced than usual. The most distorted of the Australian "A" class stations, according to "Switch's" log, is 4QG, Brisbane. This, however, may be seasonal.

LISTENING-IN in the early hours of the morning last week the writer was surprised to tumble across a powerful short-wave phone station, KBL, in California, testing speech with a Japanese amateur, J1AA, Tokio. The operator at the Californian station gave his name as Homer D. Jagers. In discussing weather conditions, the Japanese "ham" said they had just experienced a thunderstorm. Mr. Jagers reported that it was a beautiful early morning in Southern California. Gramophone items were put on by the Californian station.

ON the arrival of the Melbourne yacht Olmara at Sydney last week, the owner, Mr. F. J. Bennell, his son, and Mr. Fred Constance, of Auckland, who were members of the crew, were interviewed before the microphone at 2BL, Sydney. Mr. Constance complimented Mr. Bennell, senior, on his splendid organisation which had ensured the success of the run across the Tasman, despite the stormy adventure during the latter part of the trip. The interviewer's queries and replies by the yachtsmen were received in Wellington with full loudspeaker volume and faultless clarity.

NEW ZEALAND listeners who tuned in either 2FC, Sydney, 2NC, Newcastle, or 3LO, Melbourne, on Wednesday night of last week were treated to a most enjoyable presentation in the



3LO studio of Franz Lehar's musical comedy, "The Merry Widow." The relay by the two N.S.W. stations was a success. The performers and full orchestra did utmost credit to themselves, and one could scarcely believe that the piece was not being produced in a theatre. The play was produced by Mr. Maurice Dudley, announcer at 3LO, who is a former J. C. Williamson performer. He figured outstandingly as Baron Popoff in the broadcast production.

A PRACTICAL lesson in French pronunciation is available to any short-wave enthusiast who cares to listen in between 1 and 2 o'clock any morning. "Switch" picks up a powerful commercial radio phone station between those hours any morning he chooses to tune for it. The operator generally calls many times before he can get a reply. He shouts, "Allo, Allo, Allo, Allo, Parée!" Paris comes back at about a quarter his volume. Possibly the louder station is up in New Caledonia.

JAPAN would appear to be at a handy range for long-distance short-wave phone testing. In the very small hours of the morning recently "Switch" picked up London calling a Japanese phone station and asking for

a test with speech. The Japanese agreed, and the London technical operator read out a lengthy extract from a radio technical article. He was received word for word by "Switch," as well as by the Japanese station.

SHORT-WAVE listeners must find 2ME, Sydney, an easy station to pick up. The writer, operating a two-valve set, with a new circuit, using only ten feet of insulated wire hung around the room, as an aerial, and no earth at

Reception Table for Australian Stations

FOR the guidance of those who wish to check their reception of the Australian stations, "Switch" prepares weekly a table showing the average relative strength with which he has obtained reception at 11.30 p.m. during the past week:—

2FC, Sydney	10
2BL, Sydney	9½
2NC, Newcastle	9½
3LO, Melbourne	9
3AR, Melbourne	8
4QG, Brisbane	7½
2GB, Sydney	8
3DB, Melbourne	6½
7LA, Launceston	7
3UZ, Melbourne	6½
7ZL, Hobart	7
2UE, Sydney	5½
5CL, Adelaide	6
6WF, Perth	2
2KY, Sydney	1½

The above figures are the points assessed, with 10 as the maximum.

all, gets 2ME at good headphone strength. Simultaneously the writer's a.c. set (alongside the short-wave set) is tuned in to one of the Australian broadcast stations for the entertainment of other members of the family.

THE Australian Broadcasting Company is stated by the Commonwealth Auditor-General (Mr. Cerutti) to have lost some £4000 since the company took over the contract for providing the programmes for the "A" class stations. The running of broadcast programmes is not by any means a lucrative business.

A CORRESPONDENT writes to say that his a.c. set loses its sensitivity over half the extent of the tuning dial. The trouble would appear to be in the alignment of the variable condensers.

This, however, is provided for in the majority of a.c. sets by "trimmers" which can be adjusted so as to render sensitivity more uniform throughout the broadcast band. The bias-resistance on the radio-frequency valves may have broken down, for this would also cause the trouble mentioned.

THE most successful long-distance relay yet accomplished by 2YA, Wellington, was that of the Oxford-Cambridge boat race. When it is realised that the commentators spoke into a small portable transmitter on a fast-moving launch, the merit of the relay will be fully recognised. The description from the launch passed through the air to the English receiving station, was broadcast by G5SW, picked up 12,000 miles away in New Zealand, sent by land line to 2YA, and put on the air for the third time. And reception was practically word-perfect from 2YA.

THE New Plymouth broadcast station, 2YB, is now coming in most satisfactorily at Wellington, although its proximity in wavelength to 2NC, Newcastle, creates an annoying heterodyne note. From what "Switch" can gather the clash between the New Plymouth and Newcastle stations is creating complaints from many New Zealand listeners. The time is overdue for the authorities to shift the wavelength of the New Plymouth station.

IT was a commendable plan of Mr. C. Drummond, announcer at 2YA, Wellington, to write down a description of the Oxford-Cambridge boat race, and then give out a summary across the air. Listeners in remote districts who may have had to contend with static, either natural or artificial, would thus have a second opportunity of hearing an account of the race.

4YA Children's Session Committee

A MEETING of the 4YA Children's Session Advisory Committee was held on Friday, March 13. Mr. A. H. Williamson (representing the Headmasters' Association) presided. Also present were: Miss Telfer (Presbyterian Social Service), Miss Feichley (Girl Guide Association), Miss L. Mackintosh (League of Nations Union), Pastor W. D. More (children's organiser), Miss S. Neilson ("Aunt Sheila"), and Mr. A. F. O'Donoghue.

Apologies for absence were received from Miss Coe-Smith, Miss Hindle, Miss Anita Winkel, Brother Sullivan, and Mr. Cooper.

Arrangements in connection with the 4YA picnic were discussed and furthered.

The suggestion made by Mr. Crossley Clitheroe at the Musical and Dramatic Committee meeting that popular lectures on music should be given occasionally was discussed, and it was decided to ask Mr. Clitheroe to attend the next meeting of the committee.

Miss Mackintosh and Brother Sullivan were appointed official visitors to the Children's Session next month.

Hearing is Believing!

Don't be misled by the extravagant claims made by many radio manufacturers—claims that cannot be substantiated. We claim that Silver-Marshall Radio is the BEST radio—by test. When you are buying your set, TEST competitive makes against Silver-Marshall—for Tone, for Selectivity, for Beauty. We have no doubt which you will judge the best.

SILVER-MARSHALL RADIO SETS and RADIO PARTS

Complete S.-M. Receivers
and Cabinets.

Short-wave Sets, Chassis
and Parts.

N.Z. Distributors.

FACTORY IMPORTS,
LTD.,

THOS. BALLINGER &
CO. LTD.,

98 Tory Street, Wellington.

Victoria Street, Wellington.

TO RADIO DEALERS.—Write to either of the above for particulars of available dealer territory.

American Broadcast and Music Organizations Amalgamate



THE following is an extract from a letter received from the head offices of the National Broadcasting Company, New York:

"In your issue of Friday, January 26, under 'Radio Round the World,' you refer to the National Broadcasting Company of the United States amalgamating with two prominent American music publishing houses, which are to 'select the works to be broadcast by the N.B.C.' While it is true that the National Broadcasting Company has formed the Radio Music Company, the idea of having the Radio Music Company select the works to be broadcast by the N.B.C. is entirely erroneous."

The paragraph referred to runs as follows: "With the idea of killing jazz and educating the public to appreciate fine music, a Determination of Broadcasting Company has been formed in New York. The National Broadcasting Company has amalgamated with two prominent American music publishing houses, with a combined capital of £1,320,000. These publishing houses will select the works to be broadcast by the N.B.C."

Enclosed with the letter published above was an article containing full details of the amalgamation. This in part we reproduce below. The new company apparently realises that, taken generally, the present trend of American music will lead nowhere, and that it is time an effort was made to stimulate interest in the higher forms of music.

Details of the Amalgamation.

THE organisation of a music publishing company effecting a merger of two nationally-known institutions with a great broadcasting system was announced recently simultaneously with the filing in Albany of the incorporation papers of the Radio Music Company. The new organisation effects a combination of two leading music publishers, Carl Fischer, Inc., and Leo Feist, Inc. The National Broadcasting Company enters the picture as a third incorporator.

M. H. Aylesworth, president of the National Broadcasting Company, is to be chairman of the board of the Radio Music Company.

The new company will amalgamate the working combination of the Fischer firm, a dominating factor in the publishing field in classical, standard and educational music, the Feist organisation with its leadership in the publication of popular music, and the agency regarded as the greatest influence of modern times in the dissemination of music of all kinds—radio broadcasting.

Aligned with the new music organisation will be the foremost American composers, it was announced, including not only the writers of popular music, but the musicians who are creating to-day what will be considered the classical compositions of the future. While

the music of all nations will be considered by the new firm, it will adopt a policy of encouragement and stimulus to American composers and native music, particularly compositions of the better class.

The Company's Policy.

"THE policy of the Radio Music Company will be dedicated to the improvement of music in general, the advancement of American culture and the promotion of education of young people in the art of music," Mr. Aylesworth said recently. He pointed out that the alliance between the new organisation and the broadcasters will assure composers of a real audience for their best efforts, and that in turn the radio audience will demand these best efforts.

The operating policy of the new organisation will be almost revolutionary, Mr. E. C. Mills, the new president, remarked when commenting on the Radio Music Company.

"While in the final analysis the Radio Music Company will be a commercial music-publishing venture," he continued, "nevertheless the scope of its activities will be so broad as to have the real objective not primarily in profits, but in making an active and intelligent use of the tremendous facilities (the NBC system) placed at its disposal for the purpose of enhancing and improving the whole trend of American music."

"The radio studios will be the proving grounds for the publications of the new company. The approval of the radio public has always had a great influence on the characteristics of published music, and the approval of this same public will be used to determine new publication policies. The new organisation already is at work on the most ambitious plans so far made for musical education courses."

Discouraging Jazz.

THAT the new firm will have its influence in putting jazz in the background of the American musical picture was also expressed by Mr. Mills.

"We have had perhaps too much jazz," he remarked, "and as there is no denying the influence of music upon the trend of the people's inclinations, it seems about time for someone to assume leadership in a movement away from the cacaphony of most music of the day."

"Popular music, so called, has had and always will have its proper place. The folk songs of a people are its popular music. Out of the war-time travail came jazz as we know it now. It expresses a musical motif born of fear, excitement and hurry. Contrary to the traditions of Stephen Foster, who wrote what are probably the greatest songs our nation has ever produced, the writers of to-day in the popular field seem to be determined to crowd into a composition all that there is of

nervous excitement and hysteria of the moment. To a large extent the life of a nation reflects its music, no less than the music itself is a reflection of the temper of the people. Is it not time for a return to sanity? I think we should go back to melody and let it

serve instead of noise to give us the inspiration which we expect from music. In the popular field, therefore, the Radio Music Company will have the definite objective of a finer product."



to save
money

THERE'S one way to save on Radio, and that is to buy the Radio you can trust. Over three million owners are satisfied with Atwater Kent. They know the freedom from service expense that they could only know with the safe, sound, and accurate ATWATER KENT RADIO.

Performance—long life—freedom from service costs: these are the essentials that make your money go furthest.

Buy Now—Buy Quality—Buy an

PRICES FROM
£55 [MODEL 10L]

ATWATER KENT
RADIO with the GOLDEN VOICE

Your nearest Atwater Kent dealer will gladly demonstrate or write to distributors.

N.Z. DISTRIBUTORS: C. & A. ODLIN & CO. LTD., WELLINGTON

Addresses and Addresses Wanted

WOULD B.W. (Stratford) please forward his address?

Identification Wanted

FOREIGNER on 351 m. (855 k.c.) heard on the morning of the 22nd, after the Japanese stations had closed down. Strength R6, static bad. Speech sounded like German. Possibly TBY. Bombay. "Keijo" (Invercargill).

AT 3 a.m. on the 22nd, after the boat race, I picked up a foreigner on 2BL's frequency. Someone was speaking, but static prevented my hearing the call. Also a station heard at the same time operating on 2NC's frequency. Announcer was speaking in English, but transmission was too weak to identify. It may have been one of the Australian experimental stations. Another station heard at 8.30 p.m. on the 15th close to 2BL. I listened until 10.45 p.m., but not a word was spoken during the whole evening. I have had him since then at different positions on the dial, but cannot identify him. Strength was equal to that of 1 or 3YA. Would this be 2L2XY "on tour"?—B.W. (Stratford).

TWO stations heard on the 22nd, one at 8.20 a.m. on 2NC's frequency broadcasting a piano duet, and at 4 a.m. a fox-trot with vocal refrain, and the other heard at 3.15 a.m. on 2BL's frequency. Heard announcer say "Columbia Record No. —". Both were subject to long fades, and at times the music was at fair speaker volume.—J.C.S. (Beckenham).

STATIONS heard from 5.30 to 6 a.m. in the mornings, one on 1ZR's frequency and another 1 deg. above. Also

another on approximately 1300 k.c. (231 metres). From the first, a man speaks in a foreign language, and then a lady speaks. I have also found this the case with the station on 700 k.c. Two others, one on KSL's frequency and one on 1200 k.c. (250 metres), have also been heard, but are very weak. A station one deg. above 1ZR is always playing band music and comes in very loudly.—T.B. (Rangataua).

[Probably all European broadcasting stations. Watch DX Notes for particulars.—Ed.]

"B" CLASS Australian heard at 11 p.m. on the 25th on about 270 m. (1110 k.c.). He announced—Brisbane (not 4BC) and asked often for reports. He closed down at 11.10 "until 2.30 p.m. Friday." He was heterodyning 2UW on 268 m. (1120 k.c.).—"Kilocyte" (Auckland).

NEW Australian testing on approx. 1120 k.c. (268 m.), announcing "Amalgamated Wireless, Oxley Radio Station, just outside Brisbane, Queensland." Apparently no call sign has been allotted as yet. Also a new Jap on approx. 670 k.c. (447 m.). This is probably the station referred to by "Switch."—B.W. (Stratford).

THANKS, "Amazon," but that Melbourne station still baffles me. He was at excellent volume between 8.20 and 9 p.m. on the 23rd. The announcement sounded very much like 3UG, Melbourne, but static was bad and became worse.

News and Views of the D.X. CLUB

scope Reader," and then his address and fees charged for readings were given. I have written for verification. Is there a station KROB on approximately 1040 k.c.?—Rangi (Mangawhata). [The latest call book to hand does not include such a call.—Ed.]

DX Topics

4BC Heterodyning 2UW.

4BC, Brisbane, has recently changed its frequency from 1287 k.c. (233 m.) to 1143 k.c. (262 m.). This should adequately clear 2UW on 1121 k.c. (267 m.), but other DXers have reported that these two heterodyne. Power used is 500 watts.—"Kilocyte" (Auckland).

Logging a 100-watt American.

AMONG other verifications, just received is one from KGDY, Huron, South Dakota, in which they state that such reception is phenomenal because they use only 100 watts power. On the morning of the 26th I heard the Bombay station at excellent strength. A new Australian has been heard testing this week on 252 m. (1190 k.c.), using the call "Amalgamated Wireless, Radio Station, Oxley, Queensland." Incidentally, Oxley is in New South Wales. He asked for reports and guaranteed a reply.—J.T.C. (Palmerston North).

Test Transmission on 400 k.w.

TRANSMISSIONS on a power of 400 k.w. will shortly be carried out by WSKAR, auxiliary station of KDKA, Pittsburg. It is intended at first to transmit on this power only between the hours of 6 and 11 a.m., G.M.T., on a wavelength of 306 metres (980 k.c.). Other high-powered stations which will be operating this winter are: Warsaw, 153 k.w.; Prague, 120 k.w.; Paris, 60 k.w.; and Toulouse, 60 k.w.—"Keijo" (Invercargill).

[A list of some of the more powerful European stations was published recently. Watch the D.X. pages for further particulars.—Ed.]

Americans on Altered Frequencies.

AT 7.35 p.m. on the 13th I heard a station on 1290 k.c. (232 m.). Announcer was reading out names of Canadian and American people. A gramophone record "When the Bloom is on the Sage" was played, and the call KFRC, San Francisco, was given. Without further announcement the station went off the air. During the last month or so I have often listened to KFRC, but on 610 k.c. At 7.24 p.m. on the 22nd I heard a station on 835 k.c. (358 m.) playing a pianoforte solo. A few minutes later the call "W9XA testing" was heard and the announcer spoke in technical language. I listened until 7.34 p.m., when "W9XA testing, W9XA, Denver, now signing off" was heard. What is wrong with this station? This is the third I have heard off its listed frequency during the last three weeks. Incidentally, does a verification from a station temporarily off its frequency count in the D.X. competition?—"Seven Kicker" (Okoroire Springs).

[No. To count stations temporarily off their frequencies, unless they are recognised experimental stations, would unfortunately introduce serious complications. Your questions appear to have gone astray. Would you please repeat them?—Ed.]

Russia on the Broadcast Band.

I HAVE not done much D.X.-ing this summer because a number of refrigerating plants have been installed here and power interference is very bad on some evenings. I have picked up most of the "B" class Australians, some of them at excellent volume. During January I heard a Russian station, but could not get a call sign. Speech was

Items heard were: "Twelve and a Tanner a Bottle," "Belle of the Ball," and "Sergeant Flagg and Sergeant Quirk." After this the announcer mentioned a report from New Plymouth. He is a little below 2HD; in fact, that station "swamped" him later on.—"SGV4" (Otako).

STATION heard from 11.15 p.m. until 12.30 a.m. on the 25th on 222 m. (1350 k.c.), 1 deg. below 2AY, Albany. The announcer seemed to be very hurried in giving the call, but I could just catch "Melbourne." Call sounded like "2ZHL." Also station heard on the 24th from 11.25 p.m. until 11.50 p.m., 2 deg. below 2HL, Newcastle. Call sounded like 3PO.—"Radio Boy" (Timaru).

STATION heard at fairly good speaker strength, though blurred and distorted, exactly on 2ZC's frequency, just after 7 p.m. on the 25th. Later reception became better and I noticed that the singing appeared to be foreign. The items seemed very long, one being a duet sung in a foreign language. Then the announcer spoke in English though much of his speech was very blurred and not understandable. He announced that he would next "put on some items for our Jewish friends." Afterward I heard him say "Warsaw" quite distinctly. This was followed by three or four baritone solos in a foreign language. After announcing that they were closing down until Wednesday, the station went off the air at 11.30 p.m. Not long after I heard 3DB, Melbourne, announce very distinctly. Also a station on 73 on my dial, coming in between 2BL, Sydney (67) and 3LO, Melbourne (77). It can be heard behind 2YA during the news session, and seems to be broadcasting a children's hour. Also another station on 2ZO, P.N.'s frequency, which is always very weak.—"Novice" (Wellington).

Stations Identified

"MARK" (Dunedin) and "Jacko" (Reinini): Station just below 2NC, Newcastle, is 3EF, Ellwood. He is usually on the air until 2.30 a.m., N.Z. time.—G.G.C. (Christchurch), KTM, Los Angeles.—J.P.C. (P.N.).

"NOVICE" (Hamilton) and L.H. (Invercargill): Probably 6WF, Perth. They usually broadcast pony races on Saturday nights.—"Cromdale" (Otago). I have without doubt logged KZRM, Manila, and KGW, Portland, Oregon, on 620 k.c. (483 m.), so apparently everybody is correct.—"Red Bird" (Wellington), "Radio Boy" (Oamaru). 2ZR should have read 2ZI.—B.W. (Stratford).

A.E.B. (Auckland): Station on 271 m. (1080 k.c.) is in Bratislava, Czechoslovakia. I heard him at excellent volume at 5.30 a.m. on March 6, and I have never had him as well since. On that morning I counted seven carrier waves between WENR and 4QG's frequencies, but none of them was as strong as the Bratislava station, which was audible all over the house for 15 minutes on end.—"SGV4" (Otago).

"BIG BILL" (Timaru): Station just above KGO is KTM, and was apparently broadcasting horoscope readings and handwriting. The person making the readings was described by KTM's announcer as "Damon, the Mystic Horo-

Don't Bother with Batteries

Why bother with troublesome and expensive "B" batteries when a Lissen H.T. Eliminator will supply your radio with a steady, economical flow of "B" current? Exceptionally reliable, strongly constructed, and housed in Bakelite casing,

a Lissen Eliminator will give maximum voltage at all times.

A.C. Type A., £4/5/-.

A.C. Type B (with voltage controls), £5/10/-.

Both for operation on 230 volts A.C.

D.C. Type A., £2/2/-.

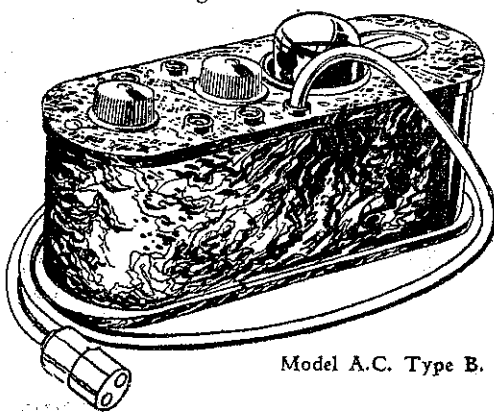
D.C. Type B. (with voltage controls) £3

For operation from 230 volts D.C.

See your Radio dealer today and find out which model is suitable to your requirements. If you have any difficulty write to the—

N.Z. Distributors:

ABEL, SMEETON, LTD.
27-29 Customs St. East,
AUCKLAND.



Model A.C. Type B.

LISSEN

H.T. ELIMINATORS

similar to that heard from the short-waver R.F.N. This is probably the station "Screen-grid" mentioned some time back. I have had him on three different occasions, but have not heard him since January 31, when at 2 a.m. he was R7-8. On January 27 at about 2 a.m. I heard a foreigner on 384 metres. Speech sounded like Spanish. Two band items were given, followed by the call sign in the foreign language. An instrumental item followed by a different voice announcing "You are listening to K.T.M." etc. This may clear up one of the mystery stations.—W.E.D. (Picton).

New Australian "B" Testing.

4BC is now permanently on 262 m. (1145 k.c.), with a power of 500 w., and 4BK has moved up to 233 m. (1290 k.c.). 2GN, Goulburn, whose address is c/o Box 88, Goulburn, N.S.W., is now on 215 m. (1390 k.c.). I heard a new Australian on the 24th testing from 11.45 p.m. onward on 262 m. (1145 k.c.). He announced "Amalgamated Wireless testing from Oxley Radio Station, situated eight miles from Brisbane."—"Keijo" (Invercargill).

D.X. News.

A FEW nights ago I picked up 3BA, Ballarat, operating on approximately 1320 k.c. (227 m.). I have always heard them previously on approximately 1410 k.c. (212 m.). Have they changed their frequency permanently? I have noticed a distinct improvement in the strength of 5CL, 3AR, and 7ZL lately since they have increased their wavelengths.—B.W. (Stratford).

A Delayed Verification.

AFTER waiting exactly six months I received a verification card from Station VK3HB, Brighton, Vic., on the 11th. However, Mr. H. L. Byrne, owner of 3HB, stated he was sorry for the delay, as he had been sick in hospital, and so that explained matters. When I sent my report to 3HB I sent it through VK3UX, Mt. Albert, Vic., and this station is also verified on the card. VK3HB operates on 206.8 m. (1455 k.c.), with a power of 25 watts, using a cage antenna 65ft. high. Address, H. L. Byrne, "Turona," 21 Wolseley Grove, Brighton Beach, S.S. I also hold a card from VK3KU, Swan Hill, Vic., on a power of ten watts. Latest loggings are: WJZ, New York City, and KLLX, Oakland, California. Could any DX'er tell me what time the Manila station closes down?—N.J. (Masterton).

Synchronised Transmissions.

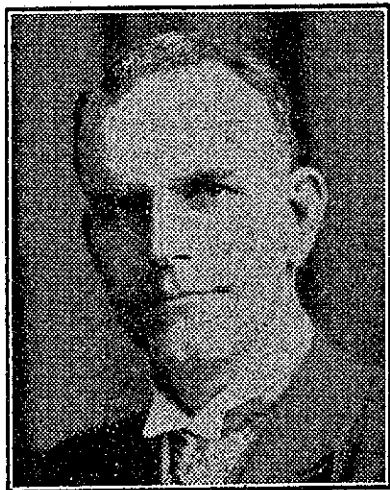
FOLLOWING is a copy of a letter I received to-day from the plant engineer of WTIC, Mr. J. C. Randall. I frequently write them on their transmission, and once at their request sent them a large wall map of New Zealand.—"Taipo" (P.N.).

"Your map arrived to-day and I am very much pleased with it, as it serves admirably in locating places we hear from in your country. So far we have been looking over that district around the quake zone, and we are very anxious for news of Hastings and Napier, as we have several very good radio friends in that locality. It is indeed a very sad and unfortunate circumstance to befall your country, and we hope the newspaper reports are exaggerated. Hope some time to have some direct information on the disaster. Let's talk radio. We are going to operate in synchronisation with WDAF; that is, we will broadcast the exact programme as WDAF on their 660 k.c. frequency. The programmes from their studios will be fed to both their transmitter and ours, both in step electrically, and one will not know, we hope, as to what station they are getting the programme from until the usual 15-minute announcement is made, when each station will identify itself separately. The date of the start of the venture is not as yet decided, but I feel we will be under way with it by the time this letter reaches you. The schedule of operation will be as follows:—

Monday, Wednesday and Friday: 7 a.m. to 4 p.m. from WDAF, on 660 k.c.
Monday, Wednesday, and Friday: 4 p.m. to 12 p.m., from WTIC, on 1060 k.c.
Tuesday, Thursday, Saturday: 7 a.m. to 4 p.m., from WTIC, on 1060 k.c.
Tuesday, Thursday, Saturday: 4 p.m. to midnight, from WDAF, on 660 k.c.
Sundays as yet not decided. Will you give this as much publicity as possible among your radio acquaintances, and ask them to advise me as to what results are like under these conditions. Interested to know how the 660 k.c. (454 metres), compare with the 1060 k.c. (283 metres).—J. C. Randall, plant manager, Travelers' Broadcasting Station, WTIC, Hartford, Connecticut."

Race Meeting from 6WF.

AT 12.30 a.m. on March 15 I heard the station mentioned by "Novice" (Hamilton) in your issue of March 20. The announcer described a horse race, which could be followed quite clearly. After giving the names of the placed



FRANK SUTHERLAND,
who will sing several numbers from
IYA on April 5.
—S. P. Andrew, photo.

horses and dividends, a musical record was broadcast from the studio. Static prevented my hearing the station call. Dial reading, 690 k.c. (436 metres), which is approximately the same as the reading on "Novice's" set. Is not this the frequency on which 6WF, Perth broadcasts, although do not expect them to relay the results of a race meeting between 8 and 10 p.m. Perhaps "Novice" would get into touch with me if he picks up this stranger again.—"Apex," G.P.O. Box 1691, Auckland.
6WF, Perth, broadcasts on 435 metres (690 k.c.) with a power of 5 k.w. Another correspondent identifies the station heard by "Novice" as 6WF.—Ed.]

D.X. Correspondents Wanted.

RECENTLY we received an order for a DX clock from a Mr. Ralph Schiller, of New Jersey. Surely our most-distant customer! He also requested us to publish the following letter to New Zealand D-Xers:—
"Ralph H. Schiller, of 4 Vincent St., Hawthorne, New Jersey, U.S.A., would like to have all radio enthusiasts write to him. Can send latest hook-ups, and when possible, will send logs of the radio stations in U.S.A. All letters will be promptly answered."

The 1931 "Radio Guide"
is now available.
180 pages brim full of useful and
interesting information.
Price 2/6. All Booksellers and Dealers.

Abuse of Radio

Developments in America

SPECIAL problems are developing in America owing to the use being made of the air by radio stations operated for private gain. An extraordinary development is the maintenance of special hours and even stations by scheming fortune-tellers, astrologers, quack weather prophets, and medical hysters of one sort or another. According to a report published in "Editor and Publisher" there are about 20 psychic persons in New York and its vicinity advertising on the air, and about a dozen in the city proper. Evidence was obtained recently by a New York newspaper that one dispenser of horoscopes, with a large trade drawn from radio broadcast activities, took care of about 2000 customers without the slight formality of reading their letters. A staff of secretaries merely slipped a prepared card for the victim's natal month into an envelope and mailed it in return for one dollar.

Much publicity has recently been given in the States to a decision by the Radio Commission refusing renewal of the license of a station operated by Dr. John R. Brinkley, on the ground that the character of its programme was inimical to the public health and safety, and for that reason not in the public interest. Through a "Medical Question Box" Brinkley, over the air, invited letters describing symptoms of ailments. In reply, Brinkley would broadcast to such sufferers instructions to purchase at designated drug stores prescriptions obtainable by number only. He organised the "Brinkley Pharmaceutical Association," consisting of druggists handling his prescriptions, and these druggists paid a fixed percentage to him on all prescriptions sold through his broadcasting.

In appealing against the commission's decision, Brinkley contended that its action was tantamount to illegal cen-

sorship. In hearing the case, Mr. Justice Robb, however, ruled that this contention was without merit, and the commission merely exercised its undoubted right to take note of appellant's past conduct, and that was not censorship.

This decision will, it is hoped, help broadcasting authorities in effecting control of the numerous radio fortune-tellers, mind-readers, and sellers of magic blood-magnetisers, nostrums, and medicines supposed to cure all sorts of diseases.

Radio in Soviet Prisons

THE Soviet has come to the conclusion that the study of radio is one of the best means of improving a prisoner's morals. It has been found that courses in electricity and wireless tend to develop a new mentality among prisoners, many of whom, it is said, have turned over a new leaf on returning to civil life by taking up wireless as a profession.

Every facility is given the prisoners to study wireless. They are allowed a certain number of components; circuit diagrams are supplied them; and text books on the subject are loaned from the prison library. Many of the receivers produced by the prisoners are fine examples of what can be done with limited facilities, and reflect great credit on the constructors.

Loudspeakers Control Railway Traffic

SEVERAL railway stations in the British Isles have installed loudspeakers for speedy communication of traffic news to passengers. Usually one microphone is installed in the main signal box, with another in the station-master's office. Loudspeakers are installed at platform entrances and in the booking hall.



Still another "Colonial" Triumph The New "COLONIAL COMPACT"

An entirely new idea in Midget Set design.

Particulars Next Week.

Distributors: N. R. CUNNINGHAM, LTD..

P.O. Box 147, Masterton.

"Ham" Abbreviations

Used on Reply Cards

IN amateur work the following abbreviations are also used, together with many other abbreviated words usually composed "on the spur of the moment." Study of abbreviations brings to light some methods that may be followed in coining abbreviations.

1. A method much used in short words is to give the first and last letters only, eliminating all intermediate letters in the word. Examples: Now, nw; check, ck; would, wd.

2. Another method uses consonants only, eliminating all vowels in the word. Examples: Letter, ltr; bound, bnd; message, msg; received, red.

3. A third example consists of using phonetic spelling. Examples: Some, sum; good, gud; says, sez; night, nite.

4. Replacing parts of a word with the letter "X" is a method occasionally used in abbreviating. Examples: Transmitter, xmtr; weather, wx; distance, dx; press, px.

ABL	Able
ABT	About
AC	Alternating current
ADR-ADS-ADSD	Address, addressed
AER	Aerial
AGN	Again
AHD	Ahead
AMP	Ampere
AMT	Amount
ANT	Antenna
ARL	Aerial
ART	All right
AST	Atlantic Standard Time (1 hour later than E.S.T.)
AUD	Audible, audibility
AUSSIE	Australian amateur
B	Be
B4	Before
BCL	Broadcast listener
BD	Bad
BTR	Better
C	See, correct, yes
CANS	Phones
CK	Check
CKS	Chokes, circuits
CKT	Circuit
CL-CLG-CLD	Call, calling, called, closing (station)
CN	Can
CNT	Can't, cannot
COND	Condenser, condition
CONGRATS	Congratulations
CP-CPSE	Counterpoise
CRD	Card
CST	Central Standard Time
CUD-CD	Could
CUM	Come
CW	Continuous wave
CY	Copy
DC	Direct current
DX	Distance
ER(B)	Here
EM	Them
ES	And
EST	Eastern Standard Time
EVDI	Everybody
BVDI	Everybody
BVY	Every
EZ	Easy
FB	Fine business, excellent
FIL	Filament
FM	From
PHONES	Telephones
FR	For
FREQ	Frequency, frequently
GB	Good-bye
GM	Good-morning
GCT	Greenwich Civil Time
GN	Gone, good-night
GND	Ground
GUD	Good
HAM	Amateur, brass-pounder
HL	Laughter, high
HR	Here, hear
HRD	Heard
HV	Have
HVY	Heavy
I	I understand
ICW	Interrupted continuous wave
INPT	Input
IMPT	Important
KNW	Know
MA	Millampere
MST	Mountain Standard Time
MTR	Meter
N	Nil, nothing, no
ND	Nothing doing
NG	No good
NITE	Night

Constructional Data for Short-Wave Coils

AS numerous inquiries for short-wave coil specifications reach us we have prepared the following table of various combinations. A slight departure from specifications in either coil or condenser should not affect efficiency greatly, but it will slightly alter tuning. This table was published some time ago, but there have been many requests from new readers for its republication, so we are complying. Cut it out, it will be useful.

Valve Base.	Tuning	Midget, 32mmfd.	Reaction, 32mmfd.
Band.	Secondary.	Wire.	Tickler.
19-25	7	24 d.c.c.	7
25-35	10	24 d.c.c.	10
35-45	15	24 d.c.c.	15
45-64	22	24 d.c.c.	22*
62-110	40	24 d.c.c.	40*

*Tickler wound double layer or band.

Valve Base.	Tuning	.00015	Reaction.	Resistance.
Band.	Secondary	Wire.	Tickler.	Wire.
9-15	2½	26 dsc.	2	30 dsc.
15-28	6½	26 dsc.	5½	30 dsc.
28-50	8½	26 dsc.	10½	30 dsc.
50-100	15½	26 dsc.	11½	30 dsc.
205-350	96	28 dsc.	30	36 dsc.
320-550	195	32 dsc.	50	36 dsc.

Valve Base.	Tuning	.00015	Reaction.	Resistance.
Band.	Secondary	Wire.	Tickler.	Wire.
9-16	2½	26 dsc.	3½	36 dsc.
15-30	5½	26 dsc.	6½	36 dsc.
28-55	8½	26 dsc.	10½	36 dsc.
50-110	15½	26 dsc.	14½	36 dsc.
200-325*	80	30 e.	30	36 dsc.
320-500	148	30 e.	65	36 dsc.

*Tubes slipped over valve base.

Valve Base.	Tuning	.00025	Reaction.	Resistance controlled.
Band.	Secondary	Wire.	Tickler.	Wire.
16-45	3½	24 e.**	4½	30 e.
40-90	13½	24 e.	7½	30 e.
250-540	110*	30 e.	33	34 e.

*Tube 3in. long slipped over valve to take winding

**All enamelled wiring spaced by own diameter.

Diameter, 1½in.	Tuning	.0001	Reaction, .00035.
Band.	Primary.	Wire.	Secondary.
10-20	3	18 dsc.	3
18-30	5	20 dsc.	5
28-38	8	24 dsc.	12
34-60	10	26 dsc.	22
56-100	12	30 dsc.	45

Diameter, 1½in. Tuning, .00015. Reaction, .00025.

Band.	Secondary.	Wire.	Tickler.	Wire.
16-30	5	18 e.	5	26 e.
29-58	12	20 e.	9	26 e.
54-110	22	20 e.	15	26 e.
103-225	45	26 e.	24	26 e.
220-350	115	30 e.	12	34 e.
300-550	195	32 e.	50	36 e.

Diameter, 1½in. Condenser, .00015. Reaction, .00035.

Band.	Secondary.	Wire.	Tickler.	Wire.
14-32	6½	22 e.	5½	34 d.c.c.
30-65	13½	22 e.	5½	34 d.c.c.
50-110	25	24 e.	9½	34 d.c.c.
100-220	50	24 e.	15½	34 d.c.c.

Diameter, 2in. Tuning, .000125. Reaction, .00015.

Band.	Primary.	Wire.	Secondary.	Wire.	Tickler.	Wire.
15-25	4	26 e.	4	14 e.	3	26 dsc.
24-40	6	26 e.	7	14 e.	5	26 dsc.
37.5-65	13	26 e.	14	14 e.	6	26 dsc.
64-115	24	26 e.	24	16 e.	6	26 dss.

3-inch Former. Condenser, 0001 Reaction, .00025

Band.	Secondary.	Wire.	Tickler.	Wire.
15-30	3	18 e.	4	22 e.
30-45	6	18 e.	5	22 e.
45-65	11	18 e.	5	22 e.
65-110	20	18 e.	7	22 e.

Diameter, 3in. Tuning, .00015. Reaction, .00025.

Band.	Primary.	Wire.	Secondary.	Wire.	Tickler.	Wire.
15-35	7	26 e.	3	24 e.	3	28 dsc.
30-70	7	26 e.	9	24 e.	4	28 dsc.
60-130	7	26 e.	19	24 e.	6	30 dsc.

"Ham" Abbreviations

(Continued.)

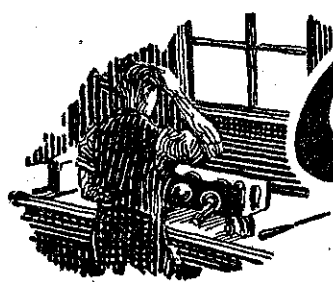
NT	Not
NTG	Nothing
OB	Old Boy, Official Broadcast
OM	Old man
OSC	Oscillate, oscillations
OW	Old woman
PRI	Primary
PSE	Please
PST	Pacific Standard Time
PT	Point
PUNK	Poor operator, lid
PUR	Poor
PWR	Power
PX	Press (news)
R	Are, all right, O.K.
RAC	Rectified alternating current
RCD	Received
RCVR	Receiver
RDO	Radio
RES	Resistance
RHEO	Rheostat
RITE	Write, right
RM	Route Manager
RPT	Repeat, report
RUF	Rough
SEC	Second
SED	Said
SEZ	Says
SHUD	Should

"Q" SIGNALS.

QRA	Location of station.
QRH	Wavelength.
QRI	Tone of signals.
QRK	Strength of signals.
QRM	Interference.
QRN	Static.
QRO	Higher power.
QRP	Low power.
QRS	Sending slower.
QRT	Stop sending.
QRU	Nothing further.
QRX	Waiting.
QSA	Readability.
QSB	Fading.
QSL	Acknowledgment.
QSO	Contact.

SIGS	Signals
SKED	Schedule
SUM	Some
TDA	To-day
TKS-TNX	Thanks
TR	There, their, position report
TRI	Try
TREB	Trouble
TS	This
T	The
TT	That
TU	Thank you
U	You
UNKN	Unknown
UR	Your, you're
URS	Yours
V	Volt
VAR	Variable
VC	Variable Condenser
VT	Vacuum tube
VY	Very
WD	Would, word
WDS	Words
WL-WID	With
WK	Work, weak, week, well-known
WKD	Worked
WKG	Working
WLL	Will
WN	When
WO	Who
WT	What, wait, watt
WTD	Would
WV-WL	Wave, wavelength
WX	Weather
XMTR	Transmitter
XCUSE	Excuse
XPLN	Explain
XTRA	Extra
YDA	Yesterday
YR	Your
ZEDDER	New Zealander
73	Best regards
88	Love and kisses
90	Keep out
2	Two, to, too
2DA	To-day
4	Please start me, where?, for, four
8	Eight, ate

KNOW the time all over the world with a
DX Clock.
Price 9d.



Questions and Answers



A.R.P. (Masterton): I wish to change the extra long-wave arrangement on my set to short-wave. How is the wiring to be altered?

A.: Had you supplied us with a theoretical diagram, we might have been able to help you. We are sorry that you have taken so much time to make very careful lay-out diagrams, but we cannot do much to assist you. Possibly you will have to rebuild the radio section.

LUND (Westport): I have a five-valve set, and I am desirous of using all possible fixed condensers across the "B" batteries. Where shall I use them?

A.: Connect the 1 mfd. condenser between B+ r.f. and B-. Also the same capacity between B+ detector and B-.

RADIO FAN (Wadestown): In your description of the Outspan Five you specify three .00035 condensers. As this is hopelessly out of fashion I wish to use a ganged condenser and one separate dial controlling a .0005 condenser. Using 2in. coils, how many turns must I use with 24 d.s.c. wire to match these?

A.: Do not presume that because the Outspan Five was published with three dials it is hopelessly out of fashion and that we brought it out thus knowing full well that we were old-fashioned. We endeavoured to match the coils, but as we explained in the article the task of lining up coils when using reaction is a very difficult one indeed. For this reason 80 turns are specified on the second coil against 75 for the others. Another set we built with redesigned coils necessitated an alteration in the number of detector turns. Very much depends upon the valve and lay-out employed. In your case if you put 100 turns on the .00035 coils and 82 turns on the other coil, with primaries of 35 in the case of the former and 30 in the case of the latter, with 45 turns reaction, you should be somewhere near the mark. We would like to know if you are successful in getting fullest efficiency out of the two dials.

A.: It is not at all easy to test for interaction. You will soon know if it is present because of uncontrollable oscillation.

AMBITIOUS (Dunedin): Where can I obtain apparatus to make a television set? I want to pick up the transmission from 3BD and 3UZ.

A.: We think you are unwise to attempt to receive television, though if you are very keen write to Hartle and Gray, Auckland, who, we believe, carry stocks of television apparatus.

E.A.B. (Hastings): I have a wet "B" battery. How can I stop leakage round the terminals?

A.: By a sealing compound run into the spaces.

2. At present I am using a 32 c.p. lamp for resistance. Would any damage be

2. How can I connect a pair of headphones to my set?

A.: If you have the output filter you could connect them at the same points as the speaker. If, however, your set uses push-pull you would need to have the job done by an electrician.

3. I have two pipes about 6ft. in the ground. Would it be better if I used 3 separated by 3 feet?

A.: It is a debatable point. At the present time we are conducting a very interesting examination. According to measurements recently taken there will be no improvement unless the pipes are separated by 6ft., but many readers state definitely that their reception has been improved by the installation of such an earth.

4. There are three wires from the set, but only two go to the power point. Is the third for an extra earth?

A.: It is an earth connection to be used with a three-point wiring system.

TUT (Kurov): We cannot tell you much about your adapter unless you tell us the name of it. It appears to be a commercial set and we are somewhat in the dark.

BATCUP (Wellington): I wish to fit a remote volume control, but am deterred by the necessity of extending the three leads of a potentiometer.

A.: Your best plan is to use a variable resistance of about 500,000 ohms across the aerial and earth terminals. This is quite a satisfactory means of controlling volume.

2. How can I overcome the motor-boating when the detector is followed by an r.c.g. unit?

A.: It is due to the resistance in the grid circuit not matching the valve or

OWING to the increasingly large number of queries that our Technical Department is called upon to answer, we have found it necessary to make some slight alterations in our system. Commencing with our issue dated April 10, each correspondent will be restricted to three questions. Those who wish to have more questions answered, or who desire a reply through the post, must enclose stamps or postal note to the value of 1/-.

We regret that this has been necessary, but to a large extent it has been brought upon by some correspondents "overstepping the mark." Letters containing from 12 to 20 queries are not uncommon, and many of these could have been answered had the correspondent looked up either back numbers of the "Radio Record" or the "Radio Guide."

Here are some interesting facts concerning the numbers of queries we have handled during the last six months: There have been approximately 1,500 letters, representing 5,000 to 10,000 questions. This entails a great deal of work, but where we are helping a correspondent genuinely in difficulty we are pleased to be able to do it.

N.W. (Dunedin): See last week's issue, page 30.

O.W.L. (Greymouth): Your question was fairly fully answered by the table in the week before last's Questions and Answers.

K.M. (Dunedin): See the R.R. October 3, 1930, or the "Guide," for a full description of the Beverage aerial.

CURIOUS (Timaru): How can I make a .00025 condenser into a .0002?

A.: Remove one fixed and one moving plate or switch in series with the condenser a .002 condenser.

2. Will a shortwave adapter give as good results as a separate three-valve set?

A.: Not quite; there is usually a choke in the detector circuit that is specially designed for broadcast.

3. Are UX valve bases satisfactory for an adapter?—Yes.

4. What plate voltage is necessary on the detector?—22½ to 45 volts.

AERIAL (Hokitika): When the primary connections of my set are round a certain way the set will oscillate only when the condenser is screwed right down, but if they are reversed oscillation is difficult to control.

A.: Try by-pass condensers between B plus r.f. B plus detector and earth. The correct number of primary turns for a 2½in. coil to suit your valve is 10 (using 24 d.s.c. wire with a .00035 condenser).

2. If I use the tickler coil with the set in a stable condition, will the set radiate?

A.: Not to any extent. It will not interfere with anyone's programme.

3. How many turns should there be on a primary coil for split primary neutralisation?—About 25, not slot wound.

4. How can one test for interaction between coils or grid and plate leads?

done in an attempt to charge the batteries faster if I used a 48 c.p. bulb?

A.: If you had told us the rating of your lamps in watts as is marked on the lamps themselves instead of in c.p. we should have been more in a position to help you.

A.B.C. (Waitemata): Is my commercial set suitable for N.Z. conditions?

A.: Unfortunately we do not know anything about it. In all probability it is quite suitable although if fitted with a long wave switch that will be quite useless.

ANCHOR (Matamata): I can log only 27 stations on my 6-valve all-electric commercial set. What are the reasons?

A.: Your set is a first-class one, and unless you have a dud valve your location must be hopelessly bad. Daylight reception is in the best of places very uncertain, but you should get better results at night. Your best plan would be to communicate with the New Zealand agents.

T.R.A. (Wellington): Would the Kestrel Three be suitable for short-wave work, as I shall have to use a counterpoise earth?

A.: Yes, it should be quite a good receiver for the purpose.

2. What outside broadcast stations could I receive?

A.: Having never tried the Kestrel Three under such conditions, we cannot tell you.

3. What would be the price of the receiver to build?—A.: About £6.

A.M.H. (Tirau): A small wire in my loudspeaker has twice broken. Would it be a faulty wire or the vibration of the set?

A.: It is due probably to the current of your last valve passing through the speaker. If you use an output filter the wire should not burn out.

CORRESPONDENTS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington). Questions arriving without it are likely to go astray or be delayed.

Name of set

Number of valves

Name

Address

.....

.....

.....

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

(1) Be specific and brief, tabulating, if possible.

(2) Write legibly, and on one side of the paper.

(3) We do not design circuits, but accept suggestions for feature articles.

Solving trouble, as different from

advice, is difficult by correspondence

and while letters are given every

consideration, answers are not

necessarily correct—they are only

our opinion based on the matter

supplied, which may be quite inadequate. Intricate and involved specifications cannot be supplied without a specialist's fee.

NO UNEMPLOYMENT IN THIS CAREER!

There's remunerative employment waiting for qualified wireless men on shore and ship. Johnson's Wireless School takes you up to 1st or 2nd Certificate Examination Standard by easy progressive stages.

Day and night classes for Professional Certificates. Correspondence classes for Professional Certificates. Amateurs and others. Write for Particulars to Department A.

JOHNSON'S WIRELESS SCHOOL

St. George's Buildings, 4-10 Brandon Street, Wellington.



the condenser being of the wrong value. The correct values are as follow: Plate resistance, 100,000 ohms; grid-leak, 1 meg. Coupling condenser should be from .001 to .5 mfd. High voltage should be applied to the plate resistance, say, from 135 to 130 volts.

3. After switching over from gramophone reception the radio signals take from two to three minutes to come through.

A.: This sounds very much like a defective switch. Prize the prongs together and clean it with sandpaper.

4. The switching on and off of a house light effectively cuts off signals for a period of from 15 to 30 seconds. Signals then come in again gradually.

A.: This may be due to a fault anywhere in the receiver, and it will be very difficult to locate without tampering with the receiver itself. It may be in that r.c.c. unit.

5. How can I reduce my detector voltage below 100?

A.: If you are using r.c.c. amplification it is not necessary to reduce the detector voltage any lower, but for transformer coupling a fixed resistance of from 10,000 to 15,000 ohms would reduce the detector voltage to a suitable figure.

N.Z.'S OWN RADIO BOOKSHOP,

The TE ARO BOOK DEPOT, Wellington

(Read this advt. weekly as new stocks arrive every overseas mail, which prevents us issuing a stationary catalogue.) We have the largest stocks of radio literature south of the line. We cater for engineers, wireless colleges, amateurs, broadcasters and beginners. Your money returned if books sent are unsuitable and sent back promptly in good condition.

LOOK AT THIS LIST:-

- "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, 1/9 per copy.
- "Radio Manual," by Sterling and Kruse, 26/-.
- "Practical Testing Systems," by Rider, 6/3.
- "Worked Examples of Electrical Technology," by Peasgood and Boyland, 18/-.
- "Radio Physics Course," by Ghirardi, 14/-.
- "Radio News Handbook, 1930," 2/9.
- "How to Electrify Your Set," by Osgood (U.S.A.), 1/9.
- "Radio: A Study in First Principles," by Burns, 11/-.
- "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, 5/3.
- "Theory of Radio Communication," by Milgate, 12/-.
- "Principles of Radio Communication," by Morecroft, 41/6.
- "Elements of Radio Communication," by Morecroft, 19/-.
- "Direction Finding," by Keen, 27/-.
- "Technical Telegraphy: Answers and Solutions," by Roberts and Burrow, 2/8.
- "Collins's Wireless Diary, 1931," 4/-.
- "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.
- "Radio Citizen's Call Book," latest quarterly, January, 1931. 2/9.
- "N.Z. Radio Guide and Call Book, 1931," 2/10.
- "1931 N.Z. Radio Handbook," 2/10 posted.

Write us Now.

TE ARO BOOK DEPOT,
64 Courtenay Place, Wellington.

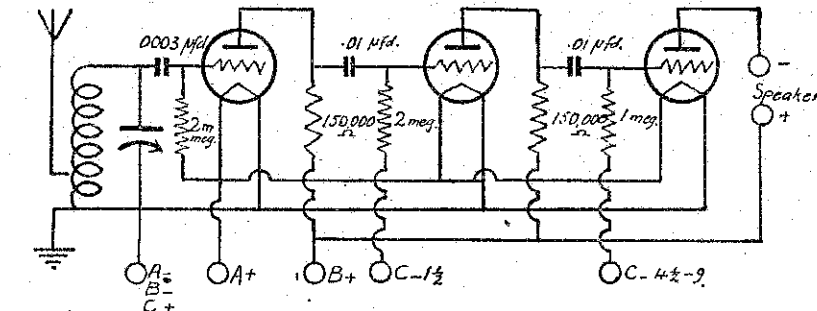
E. J. (Ohura): Also see full account of the Beverage aerial published in the "Radio Record" of October 3.

F. L.R. (Chch.): Regarding the Night Hawk Two, the signals are unaltered whether or not a grid-leak is used. Reaction is accompanied by a back lash.

A.: Try connecting the 400 ohms potentiometer across your "A" supply and taking the variable tap to the grid-leak. This of course is not connected in parallel across the condenser as is shown, but is taken to the grille side of the variable tap. The grid return is then taken to A—.

PUZZLED (Gisborne): I recently built a booster which failed to give good results.

A.: We are not really surprised at that. Our experience with boosters has been that very few work satisfactorily, and we do not recommend their construction. If you want to incorporate a s.g. valve you



should rebuild the radio section of your set and use the improved method of transformer or tuned anode coupling.

2. Can I couple the grid leak and the grid condenser in series?

A.: No; if you are attempting resistance capacity coupling you are quite wrong. We publish a diagram showing the correct method of coupling valves by this system.

DIHARD (Seddonville): Will you give me particulars of the Daniell Cell and will it keep my five-valve American battery set charged?

A.: The charger was described in detail in our issue of November 7, 1930. It would not, however, be suitable for your set, as the total filament consumption would be well over an amp and the rate of charge with a Daniell Cell is only about 1/3 an amp.

H. M.D. (Elenheim): What valves would give the best results in my American sets. The present are 201A's, but I want to use Philips or Mullard.

A.: For best results you should use the 201A's or the newer valve, the 221, in the radio stages. For detector you could use A615 Philips or P.M.6D Mullard. On the audio side you could use A609 Philips or 5X Mullard. For the power valve Philips 605, Mullard P.M.6. B605 has an output of a quarter of a watt.

2. Can a pentode be used?

A.: Yes, merely by connecting the auxiliary grid to B+.

3. Is the enclosed arrangement of "C" batteries correct? I find I have to reduce slightly from the approved ratings.

A.: For the first audio stage you need only 3 volts, and for the last stage it is sometimes necessary to depart slightly from the manufacturers' specifications.

4. What type of volume control is on my set? What type and size would be best to replace the one that has burnt out?

A.: We do not know. If you took your set to a reliable dealer he could tell you the resistance of the volume control and replace it for you.

5. Does a Daniell Cell charger need an external source of electricity?

A.: No. The Daniell Cell as described in the "Radio Record" of November 7, 1930, points out that it generates a supply of electricity which can be employed

for battery charging or even for operating a set directly.

6. Beside the long lead, is the aerial of which I enclose the plan good?

A.: It is pretty complicated and we consider you would be better with a single aerial 40 feet high and with a short lead-in. One aerial tends to screen the other as you now have them.

7. Is a brief description of the Pierce earth system possible?

A.: The Pierce system was described in the "Radio Record," March 6, 1931.

QUEST (Chch.): I have built an Edison element battery. Where could I obtain particulars of a home-made charger?

A.: The 1930 "Radio Guide," of which copies are now difficult to obtain. This will suit your purposes.

2. Could I charge the whole 90 at once, or would I have to split the battery?

A.: You could charge the whole 90.

3. How long should a charge last, using my set six hours a day?

A.: That depends upon the capacity of your battery, which we do not know.

4. What are the best valves to use?

A.: Five 201A's or 221's, or their equivalents, and a 171 type power valve in the last stage. This must be suitably biased.

QUERY (Te Awamutu): For results, which short-wave adapter is the better, the one described in last year's "Guide" or the one described in the 1931 "Guide"?

A.: The superhet. adapter in the 1931 "Guide."

2. I have heard that hum is inclined to be objectionable.

A.: You will always have to face that with a.c. shortwave reception. However, a special article has been devoted to a shortwave power pack which describes very fully all the smoothing necessary for that type of eliminator, and this should help you in eliminating hum from the super het. power supply.

G. L. (Auckland): My aerial is 100ft. long, double wire. Will a variable condenser in series with it increase the selectivity?—Yes.

2. What set not exceeding five valves is the best for volume on distant stations and tone on the local station?

A.: "The Radiogram Five," in the "Radio Guide."

3. For the Two R.F. B.D. which is the better ratio for transformers, 3-1 or

4-1?—A.: There is really very little difference between the two.

4. Which are the best valves for the 2R.F.B.D.?

A.: Valves of the 201A type in the radio stages, a detector of the 615 or 6D type; audio valves, again the 201A type and for a power valve the 605 type.

5. Is unspaced d.s.c. wire as effective as spaced enamelled wire?

A.: That very much depends upon the shape of the coil and the total number of turns to be wound on. The best plan is to follow the directions given and not try to make any adaptations. All coils are very carefully worked out before they are published.

6. What is the best metal for shielding?

A.: Either copper or aluminium. The former is easier to work but the latter more effective.

KIJO (Invercargill): My set will not operate below 212 metres, although I can tune down to represent 200m. Although I can hear stations down here I cannot separate them.

A.: We cannot tell; it may be anything. Perhaps your coils are not matching when you get up on to those very high frequencies. It is a case either for a serviceman or to be ignored.

2. How can I reduce hum in my a.c. set?

A.: You cannot, unless the set is home-made. Hum reduction is a matter for a skilled engineer.

BUDDY (Masterton): What solution is used in a balkite battery charger?

A.: 1,200 specific gravity H2SO4. This can be obtained from any battery service station.

CYCLOTS (Wellington): I am constructing a 1-valve set the circuit of which is enclosed. When I disconnected the "B" battery I could still hear music.

A.: That is not altogether unusual, as your valve is still operating because of the effective of the "A" battery on the plate.

CANS. (Dunedin): How can I make my crystal set more selective?

A.: By using a variable condenser in series with the aerial or by rewinding the coil using the circuit that was described in this year's "Guide."

2. How many turns of the enclosed wire must I put on a 2 1/2 in. ebonite former?

A.: It is 18 d.c.c. You will need 80 turns.

3. Can you suggest anything that would improve the set?

A.: It is very hard to get the circuit of your set from the plan you have sent along. Apparently, however, you are getting good results and alterations would not be worth while.

TE MIRO (Cambridge): Should the first valve of my set be discoloured as with smoke?

A.: This is probably quite in order. The chances are very much against anything being wrong.

2. Am I using the correct valves?

A.: Your power valve could well be substituted by B405. The 120 valve is a three volt power valve, whereas your other valves are four volters.

PORTABLE RADIO SETS

for

Holidays and Camping

5-Valve Sets, complete . . . £16/12/6

Transportable Models £21/5/-

Unspillable Accumulators, B Batteries, etc.

A. E. STRANGE

Telephone 36-774

404 WORCESTER ST., CHRISTCHURCH.

3. When I put my finger on the framework the tone becomes deeper and clearer. Should this be?

A.: No; try connecting the earth where you place your finger, and if the result is the same leave the earth in some way connected to the metal cabinet. If not it would be advisable to get someone to have a look at your set.

R.H.G. (Auckland): I am troubled with heterodyne interference with 2YA. It is due to the local station, which, however, operates on a frequency very much removed from 2YA. I reported the interference, and have received a reply that it has not been noticed elsewhere.

A.: Apparently your trouble is due either to a fault in the screen-grid valve or to a reflected frequency. A wave-trap tuned to the interfering station's wavelength would probably be effective, and you should try altering the direction of your aerial. Try another valve in the s.g. socket.

D.X. (Dunedin): Can an audio transformer with a burnt-out secondary be put to any use?

A.: It can be employed as part of an output filter when a small power valve is used in the last stage. It can be used as an audio-frequency choke elsewhere in the set under similar conditions.

2. Can the enclosed circuit be improved?

A.: It is unusual not to have the screening grid by-passed to earth; in other words, you should have a .5 mfd. condenser between B+ 67.5 and earth. It is unusual, too, for the s.g., working as detector, to be followed by transformer coupling. R.O.C. is the more usual. However, you have been getting good results, and that is everything.

E.J.C. (Marton): My set distorts badly.

A.: See "Distortion" in the "Radio Guide," as it may be due to a large number of causes. The correct voltage for the output valve PM2 is 12 with 150 on the plate. For other voltages the bias is proportional.

2. I have the eliminator in close proximity to the s.g. valve with no shield between. Would this affect reception?

A.: It will probably cause instability. The s.g. valve should be shielded from the power supply.

3. There are several small stations that I would like to get. Is there a list with addresses, in the "Guide"?

A.: Yes, the full addresses are given of all Australian and New Zealand broadcast stations, while adequate addresses are given for the American stations.

4. Several people in this locality are troubled with a bad power-leak. To where can I make complaint?

A.: The District Radio Inspector, Wellington.

5. What value of condenser is required for the wavetrap described in the "R.R." of March 6—A.: .0005.

6. 22 and 18 gauge d.c.c. wire is given. What gauge s.w.g. would this be?

A.: D.c.c. is, so to speak, a species of s.w.g. wire. D.c.c. relates to the covering meaning double cotton covered, so that by 18 gauge d.c.c. we really mean 18 standard wire gauge double cotton-covered wire, but you see d.c.c. is ever so much shorter.

H.C. (Waimate): I have the core of a toy transformer. Can I use it to supply filament voltages for all types of valves?

A.: The laminations are fairly small for the job they are called upon to do, and it is doubtful if the window would take all the winding. However, here are the particulars. The primary would need to be 2000 turns of No. 30 gauge wire; for the secondaries you can compute the number of turns at 11 turns per volt. The gauge wire you use for the secondaries will depend upon the amount of current you wish to draw from the transformer. You could not take much

BEGINNER (Dunedin): In my all-wave set I am using PM2DX, one 1.f. and B205. Is this a good combination?—Yes.

2. Do I have a good set?—Yes.

3. I have a 2 x 2 accumulator each 60 amp. hours. Using the set for 4 hours a day, how long should the charge last?—A month.

4. I am using a "B" eliminator. What fixed resistances and condensers do I need?

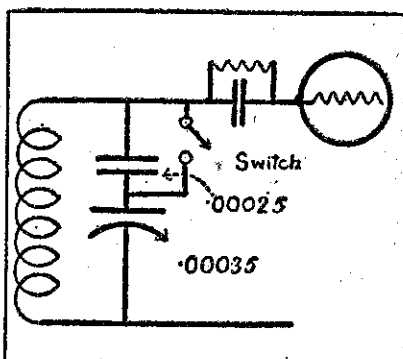
A.: See any of the last three "Radio Guides."

5. Would an electrolytic condenser be better than mica condensers?—Yes, if it is of the correct capacity, say, 16 mfd.

6. Will I destroy headphones when using a "B" eliminator?

A.: No, but if your last valve passes a fairly large current you should use an output filter.

7. What is the correct way to put ear-phone cord clips into the plug?



A.: You must trace out your jack clips and see what goes to positive.

8. On shortwave oscillation is plop-plop. How can I alter this?

A.: By trying different grid-leaks and if necessary a different grid condenser. Alter the detector voltages, trying different valves, if necessary bringing the grid return to a variable point between positive and negative, as shown in the "Diff. Four."

9. What is the best value condenser to use in (a) shortwave sets, (b) all-wave sets?

A.: Shortwave .0001 or .00015; (b) .00035. Use the switching arrangement shown herewith to reduce the effective capacity.

10. Is a .00005 condenser quite suitable for reaction?—No, it is too small.

11. Should I use a different grid leak for broadcast and shortwave?

A.: Yes, broadcast 2 megs., shortwave 10 megs.

12. Can reaction be used satisfactorily with a power detector?—Yes.

13. How long should my aerial be?—Total 100 feet.

14. What is the proper value of resistance to bias suitably a 224?—4000 ohms.

15. Would a Bluespot 66R unit be quite O.K. with my valves?—Yes.

16. What gauge wire should be used for aerial and earth?—7/22.

17. Why should I get 2YA in two places 1 1/2 deg. apart?

A.: It is due probably to an effect set up by your set oscillating.

TIM (Havelock): For some time I kept my set stored in a dry place, and when I turned it on, although the valves lit, I could not get anything through for about three hours, and then Wellington came through weakly. When I put the voltage up from 90 to 135 and the "O" battery to 9 volts the tone and volume dropped.

A.: Although difficult to define the cause of a trouble so unusual, we would imagine that although you tested the batteries they are at fault. Test both "A" and "B" batteries again after the set has been operating a while. Batteries must be tested on load to determine their efficiency otherwise without seeing the set we cannot offer any solution.

JACK (Wellington): Is a filter affected by the placement of the smoothing condensers in relation to the choke?

A.: Yes; a condenser should be on either side, and not both on the one side.

NOVICE (Christchurch): My set uses 6-201A valves. Should it have a power valve in the last stage?

A.: It most certainly should have a power valve in the last stage. One of the 172A type is quite suitable. It must, of course, be adequately biased.

2. How can I tell the last stage?

A.: The last stage is the one that is nearest the speaker. Trace the plate lead of the last valve socket, and you will see that it goes to one of the speaker terminals and not to a transformer or resistance.

3. Which speaker is the most suitable, horn or cone?—Cone.

4. What is the difference between a neutrodyne and a heterodyne set?

A.: It is a long story and has been told in full, with illustrations, in the 1931 "Guide." Both sets work on an entirely different principle up to the detector stage, when they are alike. It is really a repetition of the broadcast station itself, within the set, only the radiations are not allowed to go on to the aerial.

5. What stations should I be able to receive?

A.: That depends upon your locality. You should be able to get the Australians quite satisfactorily.

6. Explain the Beverage aerial.

A.: See the "Radio Record" for October 3, 1930.

Q. R.M. (Waikato): The generator of a nearby picture plant has been causing interference with my set. Can it be stopped?

A.: Yes, it should not be allowed to cause interference. If you cannot get satisfaction with the management, write the District Radio Inspector, Auckland. Do not, however, incorporate the paragraph referred to in your second paragraph.

PORTABLE (Wgtn.): We have not tested the apparatus to which you refer, but we suspect it would be more expensive to operate than a.c. apparatus.

2. Would it be possible to use an Adda-phone with this?—Yes.

E.N. (Napier): Who are the agents for Pilot super watt?

A.: Harrington Ltd., Willis Street, Wellington.

2. What is the cost without the cabinet?

A.: It is sold as a kit set with a small cabinet for about £27.

3. What sort of a set is it as far as strength goes?

A.: We have not tested it.

H.N.S. (Waihi): What would be the cost of converting my factory-made set with honeycomb coils to the Outspan Five? At the present time I am using five 201A valves.

A.: We do not know how much it would cost, as it would all depend upon the number of parts from your old set that could be used. You would certainly have to have a new set of coils, which, however, are not expensive.

2. How long should my 100 amp. hr. battery last without being charged?

A.: About 50 or 60 hours.

3. How long should the "B" batteries last?

A.: This depends upon the drain of your set and the type of battery used. We have given a very complete table in the "Radio Guide," together with explanatory matter which should interest you. Based upon two to four hours' service daily, a super battery should last you about 10 months.

4. Would the Daniell set charger be suitable to charge my set?

A.: No, it is intended only for sets with a small "A" current.

XYZ (Auckland): Can you tell me if and how a battery s.g. set can be converted into an all-electric to be used from the direct supply?

(Concluded on page 30.)

RADIO DIRECTORY

What to Buy and Where

CITIES

- | | |
|--|--|
| ACE and HAMMARLUND SETS, | Johns, Ltd. |
| WESTINGHOUSE Rectifiers | Chancery Street, Auckland. |
| BURGESS RADIO BATTERIES, | All Radio Dealers. |
| LOFTIN-WHITE AMPLIFIERS | Stewart Hardware Ltd.,
Courtenay Place, Wellington. |
| MAJESTIC RADIO RECEIVERS | Kirkcaldie & Stains,
Wellington Agents, Lambton Quay. |
| MULLARD VALVES ... (etc.) | All Radio Dealers. |
| N.Z. DISTRIBUTORS PILOT PARTS AND RECEIVERS, INCLUDING PILOT SUPER-WASP and GILFILLAN ELECTRIC RECEIVERS | Harrington's, N.Z., Ltd.,
40-42 Willis St., Wellington.
142 Queen St., Auckland. |
| RADIOLA RECEIVERS and Expert Radiola Service. | Farmers' Trading Co., Ltd.,
Hobson Street, Auckland. |
| STEINITE RADIO | G. G. Macquarrie, Ltd.,
120 Willis St., Wellington. |

COUNTRY TOWNS

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

"THE DIFFERENTIAL FOUR"

Successful Series Completed

By "CATHODE"

BEFORE going on with the description of the final stage of this receiver, it may be well to touch briefly upon the addition of a volume control which, when the final stage is added, will be found very necessary.

The form of volume control which has been found best for most circumstances consists of a potentiometer shunted across the first audio transformer, the connection from the moving arm of the potentiometer being then taken to the grid of the first audio valve. This is, as a matter of fact, one of the very few forms of volume control which do not have an adverse effect on the frequency response of the audio system. The potentiometer should have a value of one megohm, or thereabouts, and must, of course, be mounted on the panel. A symmetrical appearance will be lent the front of the panel if the volume control is mounted alongside the reaction condenser and on a level with it. It will be noticed that a part of the panel at the extreme right end has been left unoccupied with a view to the addition of this control.

"The Differential Four."

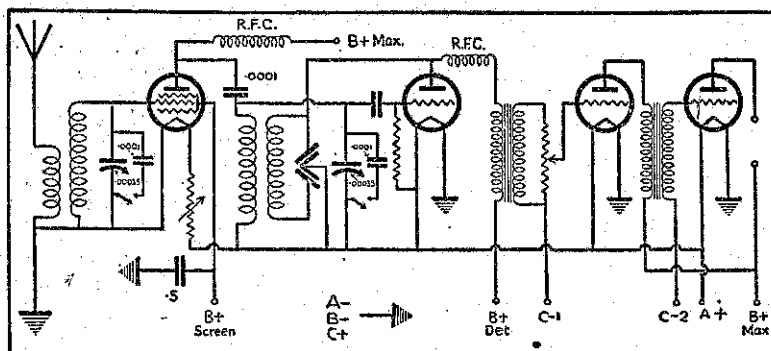
APART from the volume control, all that is required to add a second audio amplifier to the receiver is an audio transformer of good quality and a valve socket. Space will be found for these at the rear of the newly-added volume control, their precise location not being a matter of any great importance.

The lead which runs from the negative speaker terminal to the plate terminal of the first audio valve holder should now be changed over to the plate terminal of the second audio

valve holder (that just added). The now vacant plate terminal of the first audio valve holder should be connected to one end of the primary of the new audio transformer, the other end of the primary being connected to the B+ max. terminal. The secondary of the audio transformer is, of course, connected one end to the grid terminal of

valve will receive its proper filament supply.

A valve having a good power handling capacity should be chosen for the last stage as otherwise strong signals will result in distortion. A valve with an impedance of 2000 to 4000 ohms will be found very suitable, and the recommendations of the valve manufacturer



the second audio valve holder and the other end to the empty C negative terminal on the terminal strip. The wiring is completed by running wires from the filament terminals on the existing first audio valve holder to the new second valve holder, so that the power

as to the grid bias to be used with the particular plate voltage employed should be scrupulously followed. The plate voltage should be raised to as high a figure as the purse will allow, provided that the maximum voltage recommended by the valve maker is not exceeded. A high plate voltage is always of assistance in obtaining the minimum of distortion on powerful signals.

IT will be noticed from the diagram that slight alterations have been made in placing the audio stages of the Diff. Four. These are suggestions to get a more compact layout than is possible in building the set up stage by stage. At a later date a compact four-valve set will be described. It will be noticed, too, that the coil used in the radio stage employs an English base. The five-valve bases are difficult to obtain, and in this circuit are unnecessary. We have resorted to an English base to prevent the valve being placed in the coil socket, or vice-versa. This would have disastrous results both to the valve and the battery. The rheostat has been shown in the detector circuit on the layout diagram and in the radio circuit in the theoretical stage. This has been purposely done to help those who, wishing to use the set primarily for short-wave, wish to control the voltage of the det. valve.

Clearing Away Difficulties.

IT appears as though a slight misapprehension occurred when the radio stage was described. The writer specified a .0005 condenser, thinking that

constructors would build the special coil for that condenser described earlier in the series. Some builders followed the same specifications as those for their .00035 condensers in the detector stage. This has, of course, thrown the dials right out of alignment, and it means that the whole broadcast band cannot be tuned in. To make matters quite clear, a table was published recently in the Questions and Answers columns.

On trying out different types of valves, the writer encountered a difficulty which has been met by many correspondents, that is, with regard to reaction. Unless one happens to be using a valve which is a particularly ready oscillator, it is necessary to increase the number of turns on the reaction coil. The small diameter of the coil and its consequent inefficiency on the broadcast band contributes to this to some extent, but the real reason lies in the smallness of some of the differential condensers on the market.

The insertion of a small fixed condenser across one side of the reaction condenser completely eliminates the difficulty, but renders the condenser less suited for short-wave work. What is really required is a differential condenser having a capacity of about .00025 on either side. Although reaction coils should be kept as small as possible, 60 turns is not an unreasonable size for the broadcast band, everything being considered.

Some difficulty has been encountered on the h.f. side, and this is most likely due to the use of an unsatisfactory type of choke for parallel feed. This is a key component in this type of circuit and a careful choice must be made. The .001 condenser originally specified has been superseded by a .0001, which

Have you realised that the valves of your Electric Set require protection from the voltage fluctuations of the electric supply?

You can prolong the life of your valves at the cost of less than one valve by obtaining an

"AMPERITE"

Automatic Voltage Regulator.

A type for every set—Please give the make and model of your receiver.

Dealers and Service Men will be interested to know that the

SUPREME SET and VALVE TESTERS

Also

SPRAGUE 8mf. ELECTROLYTIC CONDENSERS

Are obtainable at

THOS. BALLINGER & Co.

LIMITED

58-62 VICTORIA ST., WELLINGTON.

"Where the Quality Goods are Sold."

Introducing Shortwave Parts and later Heatwave

.00015 Igranite Short-wave Variable Condensers, shielded ebonite spindle. Were 12/6. Now 9/9.
80,000 ohm Fixed Resistances. Were 4/6. Now 3/-.
20ft. Loudspeaker Cords. Were 3/6. Now 2/6.
Igranite Short-wave Chokes. Were 4/6. Now 2/6.
Assorted Fixed Condensers. Were 1/6. Now 10d. each.
20 and 30 ohm Rheostats. Were 3/6 and 4/6. Now all 2/9 each.
Arriving next month: S.W. Slow motion Dials. 160-1 Ratio worm gear drive, 3/6 each.
Aluminium Shielding, 18 gauge, cut and flanged to your requirements, 3/3 sq. ft. Postage free on 15/- orders.
Cosy Glow Electric Radiators, 230 volts, cone type adjustable 600 watts. Made by Westinghouse. Were 28/6 each. Now 21/- post free.

Bob Horrobin

Flashlight Cnr., 2 Courtenay Place, Wellington.

Quick repairs. Phone 22-357.

many correspondents have found better. We, however, had no difficulty with the .001 type.

So far as short-wave work is concerned, it was explained in the first article of the series that the h.f. stage had but little, if any, influence on the amplification of short-wave, and readers were advised if they wished to use the set primarily for short-wave reception to leave out the h.f. stage. The s.g. valve gives a considerable lift on the broadcast wavelength.

The efficiency of the broadcast coils can be appreciably improved by increasing their diameter to 2in. and reducing the number of turns and increasing the diameter of the wire. The construction, then, is rather difficult for those who are not accustomed to construction. However, a turned wooden or ebonite ring to slide over the valve base of an outside diameter to fit within the 2in. former must be prepared, and this requires the use of a lathe.

When using the set for short-wave only, a .0001 double-spaced variable condenser should be used for the tuning and a special h.f. choke must replace the one in the detector circuit. An excellent set may be had by using the detector and two stages of audio.

Another useful addition to the set is a 400 ohms potentiometer. This must be shunted across the filament terminals, and the variable tap taken to the grid return. This will be found to make regeneration very smooth. The detector voltage should be as low as possible consistent with smooth regeneration control.

The potentiometer can quite conveniently be mounted on the baseboard, as once adjusted for a valve and detector voltage it remains unaltered.

THE DIFFERENTIAL FOUR

That extra stage will make all the difference to your results. It will not be expensive to add either. Look at these prices:

- 1 Transformer10/6
- Ferranti A.F. 4.....£1/3/-
- 1 Valve, we recommend B405 for greatest "lift" and output15/-
- Valve Socket1/6
- Anti-motor boating device, 600 ohm resistance and 2 mfd. condenser 6/6
- 400 ohm Potentiometer 5/6

Send for our Price List.

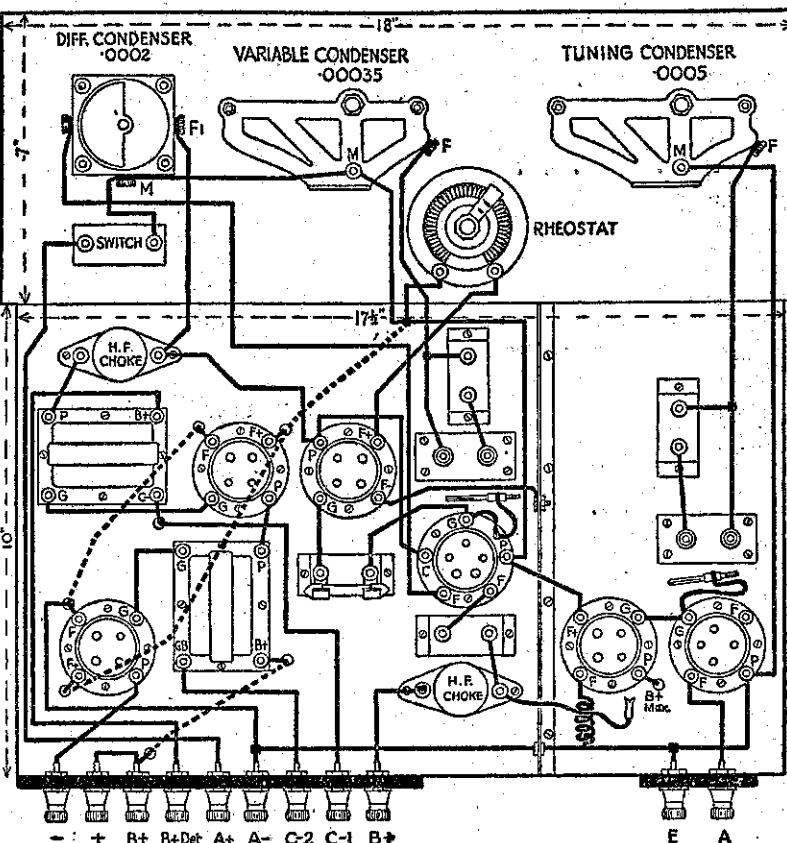
All Postage Free.

—THE—

C.A.S.

(Country Accessories Supply)

29 VENTNOR STREET, SEATOUN, WELLINGTON.



Radio in China

New Station

THE vice-president of the broadcasting company in Shanghai, China, left recently for the United States to investigate radio facilities and broadcasting equipment with the view of purchasing apparatus for China's first commercial broadcast station. It is to be constructed during the present year.

China's first large broadcasting station is not at all pretentious, for present plans contemplate the use of 1000 watts of power. The official of this Chinese broadcasting company is to visit Europe and England, also, to consult radio engineers regarding facilities most suitable to Shanghai before purchasing the necessary broadcasting apparatus.

Use Our Booking Offices in Advance

S-O-S

TRAVEL IN COMFORT BY
CAR

WELLINGTON — PALMERSTON
NEW PLYMOUTH

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
THE MASTER VALVE



MISS EVELYN ROBINSON,
a well-known and talented 2YA con-
tralto, who this week will broadcast
from 1YA.
—S. P. Andrew Photo.

The 1931 "Radio Guide"
is now available.

180 pages brim full of useful and
interesting information.

Price 2/6. All Booksellers and Dealers.

A. J. PARK & SON

Patent Attorneys

Routh's Buildings,

Featherston Street,

WELLINGTON

SOUND filters which remove certain overtones without changing the pitch of the human voice recently have been developed in America for the talking pictures, and may also be used in broadcasting. It is claimed that they eliminate certain objectionable nasal qualities and enrich thin voices.

K.B. The Keyboard of ENGLISH SPEAKERS

KOLSTER BRANDES

Permanent Magnetic Dynamic Speakers are English They give perfect reproduction of speech and music

They will delight you as a polished English Speaker should Present stock to sell at £4/10/-, chassis only New shipments will be dearer. Send Cash NOW.

INTERNATIONAL RADIO LTD.

BLAIR ST., WELLINGTON.

ASK YOUR RADIO DEALER.

FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

Auckland Notes

ON Easter Sunday at 11 a.m. and 7 p.m., services to be held in St. David's Church and St. Mary's Cathedral respectively, will be relayed. The preacher in the Cathedral will be his Grace the Archbishop, Dr. A. W. Averill.

The after-church studio programme will be presented by the Whisker Instrumental Quartet and Mr. S. C. Lewis (clarinetist), Miss Gwladys Payne (soprano), and Mr. Frank Sutherland (baritone). Mr. Sutherland's solos will be "O Divine Redeemer," "The Radiant Morn," and "Lead Kindly Light."

From Wellington

THE service to be conducted in the Terrace Congregational Church will be relayed. The preacher will be the Rev. H. W. Newell, and the organist and choirmaster, Mr. Harry Brusey.

Signor Lucien Cesaroni has included in to-night's programme some numbers appropriate to the Easter season. He will sing the solo, "Easter Morning (by Himmel)" and, with his company, will present the celebrated "Easter Chorus" (from "Cavalleria Rusticana"). Signor Cesaroni will also sing Handel's stirring aria "Arm, Arm ye Brave" and "The Praise of God" (by Beethoven) besides a duet with Mr. R. Trewern, "Lend me Thine Aid" (from Gounod's "Queen of Sheba.")

Chopin's "Ballade in F Minor" and "Jardins sous la pluie," by Debussy, will be played by Miss O. Reid, L.A.B. Other vocal numbers will include excerpts from "Carmen" and "Mignon," besides some simpler ballads, the whole forming a varied and interesting programme.

Christchurch Features

BISHOP WEST-WATSON will be the preacher in the Christchurch Anglican Cathedral on Sunday evening, when the service will be broadcast. Dr. J. C. Bradshaw will be the musical director. 3YA will relay 4YA's after-church concert.

From Dunedin

THE service at the Methodist Central Mission will be broadcast this evening. The Rev. G. B. Hinton will be the preacher, with Mr. Mortley Peake as choirmaster.

An appropriate studio concert will follow. Three solos will be contributed by Miss Lettie de Clifford, who has been leading lady of the Dunedin Operatic and Dramatic Society for the past two years. She possesses a soprano

voice of exceptional quality and range. Mr. F. E. Woods, one of the bass soloists in St. Joseph's Cathedral, will be heard in a recital of three songs, while Mr. Ernest Drake, the well-known Dunedin tenor, will also present three solos. An instrumental trio, Mrs. C. Drake (pianiste) and specially selected records will provide the balance of the programme.

EASTER MONDAY

Auckland Features

1YA will not observe a silent day. In the afternoon, the results of the events at the Auckland Racing Club's autumn meeting will be broadcast.



GLADYS PAYNE,

who will sing from 1YA on April 5.
—S. P. Andrew, photo

A very fine holiday programme has been arranged for the evening session.

Gordon Cole and his Civic Winter-garden Orchestra, a combination of players which has delighted thousands of people in the last few months, has been engaged for the evening, and they will play many popular numbers.

The Asquiths will give another of their twenty-minute drawing-room entertainments, while Miss Dorothea Ryan will be heard in a group of piano solos. Mr. J. Ainsley Daglish, who has quickly come to the fore as a tenor soloist, will be heard on this programme. Dance music will continue until 11 p.m.

From Wellington

A SEED specialist from England, Mr. Walter F. Giles, A.H.R.H.S., will speak at 7.40 on "Plant Breeding and Seed Production in England."

A programme, which will be a treat for all music-lovers has been arranged for this evening. Mr. Harison Cook, the eminent Wellington bass, has been engaged for a recital. Miss Christina Young, a talented and artistic singer, will also appear on the programme, singing solos, and, in company with Mr. Harison Cook, taking part in duets.

Mr. Cook's numbers will comprise solos from "Il Seraglio" and "Faust," "O'er the Moor" (an old Highland love song), "The Leader of the Town Brass Band," and "The Arguing Wife." To several of these songs, as well as to the duets, there will be orchestral accompaniment. "I Crave to Satisfy my Hate" (from "Samson and Delilah") and Newton's "Underneath the Trees" will be the duets. A violin obligato will be played to two of Miss Young's solos. Of exceptional merit, in keeping with the vocal numbers, will be the instrumental side of the programme. Two Schubert numbers will be played by Mr. Gordon Short. Rossini, Schubert, Verdi, Brahms, Pierne, and Waldeufel will be represented in the programme by the orchestra.

Christchurch Notes

RACE results from the Canterbury Jockey Club's meeting will be broadcast during the afternoon. At 7.30 p.m., Mr. N. M. Bell, M.A., will speak on "Esperanto."

For 3YA's band concert, Derry's Military Band has been engaged, and a miscellaneous programme will be presented. Piano novelties will be contributed by Miss Maisie Ottey, whose items will be entirely new to listeners.

Dunedin Features

DURING the afternoon, 4YA will relay the results of the New Zealand inter-varsity tournament and the South Island tennis championships, which are to be held in Dunedin.

A novelty orchestra, playing the latest popular numbers, will be represented on the evening programme. As a violin solo, Miss Eva Judd will play "The Old Folks at Home"; a novelty item, "Slippin'," will be played by Mr. J. McCaw (clarinetist); and Miss Rita Holmes, a very popular entertainer at the piano, will present three of the latest song hits from sound pictures.

Miss Aileen Young, an artistic mezzo-soprano singer, will interpret

FEATURETTES

Cesaroni Recital

2YA, Sunday.

Civic Winter-Garden

Orchestra

1YA, Monday.

Harison Cook Recital

2YA, Monday.

"The Paua Club"

2YA, Thursday.

"Eight O'clock Revue"

2YA, Saturday.

The Rythmic Symphonists

3YA, Saturday.

songs by Lehmann, Rachmaninoff, and Scott. Mr. Noel H. North will sing three baritone solos, one of which, "Winnin' Through," has just been published, and will prove very popular with ballad singers. Scottish humour will be provided by Mr. James A. Pater-son.

TUESDAY

1YA Notes

AT 3.15 Mrs. Les. Crane will continue her talks on "The Beauty of Mind and Body in Relation to Diet," and at 7.40, Mr. N. M. Richmond will discuss, under the auspices of the W.E.A., "Democracy—Do We Want It, and Can We Have It?"

The vocalists for the evening are Madame Cora Melvin (soprano) and Mr. Norman Day (baritone), already well known to listeners. They will be heard in solos and duets. Mr. Day's solos will be two of Wallace's "Free-booter Songs"—"Son of Mine" and "The Rebel." Madame Melvin singing "The Songster's "Awakening" and Korsakov's "Berceuse." Miss Doris Moore (popular contralto) will be heard in "Cradle Song," "O Flower of all the World," and "My Jewels."

Mr. A. B. Chappell, M.A., will give his weekly topical talk, and the Orchestral Octet, under the direction of Mr. Harold Baxter, will play among other numbers selections from "Tristan and Isolde" and "Lucia di Lammermoor." Dance music will follow until 11 p.m.

Wellington Features

THE weekly talk for the man on the land by a representative of the Agricultural Department will be broadcast.

A programme of a diversified nature will be presented in the evening. Baritone solos by Mr. W. E. Crewes will have orchestral accompaniment, and violin obligato will be provided for contralto solos by Mrs. M. R. Nicolson. As novelty numbers, Standen and Gibson will present some of the latest popular airs. An expert siffleur, Mr. E. T. Feeney, will contribute to the programme, and a bright selection of

items will be provided by the Salon Orchestra.

From 3YA

THE O.J.C. race results will be broadcast this afternoon. A silent day will not be observed.

In the evening a holiday programme will be presented. Popular vocal numbers by the Valencia Quartet, in concerted and solo form, will include "March of the Men of Harlech," "Tom Bowling," "The Hills of Donegal," "Song of the Little Folk," "Larboard Watch," "Young Tom o' Devon," "Widow Malone," "Come to the Fair," "The Melody of Life," "Song of the Waggoner," and "Softly Falls the Shades of Evening." Mr. Jock Lockhart, Scottish humorist, will be contributing to the programme. A session of dance music will follow the concert and will continue till 11 p.m.

Dunedin Notes

THE Dunedin Tramways Band, under the direction of Mr. Chas. T. Morgan, will present the evening's programme. Many happy recollections will be aroused by the playing of "Gems of Old England" (by Rimmer). Ken J. Alford, better known to Dunedin folk as Bandmaster Ricketts, whose band was present in Dunedin during the Exhibition in 1925-26, is represented on the programme by one of his best-liked marches, "The Mad Major." Fox-trots such as "Little White Lies" and "Ro-Ro-Ro-Rolling Along," with a good swing to them, in addition to a patrol, a waltz, and two other marches, complete the band's programme.

On the vocal side, Miss Myra Stokes and Mr. Norman Gamble will present three duets: "The Wings of the Dove," "Oh, That the Summer," and "I Would that the Love." Miss Molly Vickers (soprano) and Mr. W. Satterthwaite (tenor), two popular performers, are also included in the evening's entertainment.

WEDNESDAY

Auckland Notes

FROM 1YA Mr. Norman Kerr will continue his series of talks on "Physical Culture."



NORMAN DAY, baritone, who will be heard in solos and duets from 1YA on April 7.
—G. F. Jenkinson, photo.

Miss Evelyn Robinson, a well-known contralto from Wellington, will make an appearance at 1YA this evening. Her numbers include "Easter Flowers" and "Alleluia."

Another new artist to 1YA is Mr. Trevor Binns, a young humorist, who is sure to please his listeners. The Orchestral Octet will be playing several numbers, including "The Evolution of Dixie" and the suite "Music Pictures." The programme will conclude with a lecture-recital on the latest gramophone recordings.

2YA Features

RECORDED features from overseas broadcast entertainments will comprise 2YA's evening entertainment.

From Christchurch

TROTTLING results will be broadcast during the afternoon.

The evening concert programme will be of the popular miscellaneous type. The Studio Octet will provide the accompaniment to Mrs. Agnes Cunningham's mezzo-soprano solos: "Absent," "Somewhere a Voice is Calling," "Fairly Pipers," and "Home, Sweet Home." A series of tunes, one of them being the "Stein Song," will be played by a new banjo duo, Messrs. J. N. Havord and M. George (two excellent performers), accompanied by Mrs. Louis Bloy. The Mascots will act two sketches. The programme by the Studio Octet under Mr. Harold Beck will include the "Romantic Overture" (by Kela Bela), "Coronach," selections from "A Country Girl," and the suite, "Three Dale Dances."

From Dunedin

THE afternoon talk, to be given by the Home Science Extension Department of Otago University, will be on "The Dining Table and Table Service." At 7.15 p.m. Mr. James Begg will speak on "Handling of Stock for the Freezing Works." Both talks are under the auspices of the 4YA Primary Productions Committee.

An exceptional concert has been arranged for the evening, starring Margherita Zelanda (coloratura soprano), Miss Mary Pratt (contralto), Mr. Arthur Macdonald (baritone), Mr. Max Scherek (pianist), and the Instrumental Trio.

THURSDAY

From Auckland

THE afternoon home science talk from 1YA, 2YA, and 3YA, prepared by the Home Science Extension Department of Otago University, will be on "New Ways of Using Apples."

UNDER the auspices of the N.Z. Manufacturers' Association, a lecture entitled "Bedsteads and Bedding" will be given from 1YA.

The evening's programme will be the first of a series to be given by the Auckland Savage Club Orchestra, under the direction of Mr. Archie Don. Bohemian clubs of Auckland are very fortunate in the fine orchestras they possess, and listeners will this evening be privileged to hear one of the finest, which has hitherto played only for the entertainment of members of the club.

A very fine programme has been arranged, and among the items by the orchestra will be "Oberon," "Plantation Songs," "Shepherd's Hey," "Petite Suite de Concert," "Entry of



MADAME CORA MELVIN, the well-known Auckland soprano, who will sing duets with Mr. Norman Day and several solo numbers on April 7.
—Homer Studios, photo.

the Boyards," and the march from "Aida." Humorous items will be given by Savage J. Hogben and Savage W. H. V. Taine. Baritone solos by Savage Bernard Carter will include the "Toreador Song," from "Carmen," to be sung to orchestral accompaniment.

Wellington Features

MISS I. F. MEADOWS will be the speaker for the home science talk from 2YA. At 7.40 p.m. Mr. W. E. Priestly will give a lecturette on "Modern Ballroom Dancing."

The concert programme is to be provided by a party of entertainers known as "The Paua Club." There will be plenty of variety on both the vocal and instrumental sides. The programme will also include two sketches.

From 3YA

A PROGRAMME of the operatic-classical type has been arranged for this evening. Among the artists appearing on the programme is Mr. Clive Hindle, who is now a member of the Salon Quartet, having replaced Mr. J. Graham Young. The latter has resigned owing to pressure on his time and frequent absence from Christchurch. One of Mr. Hindle's songs will

be: "The Song of Bacchus" (from "Hamlet"), very seldom heard.

Two quartets, "Early One Morning" (an English folk song), and "Land of Hope and Glory," will be sung. Pianoforte solos will be played by Mrs. Madeline Pooke, of Pareora, a very artistic performer and well known in musical circles as Miss Madeline Hughes, and a quintet consisting of two violins, cello, harp and organ, will play "Meditation." An enjoyable orchestral programme will be provided by the Studio Octet under Mr. Harold Beck.

FRIDAY

Auckland Notes

A MISCELLANEOUS programme, full of interest, is promised by 1YA. The Civic Novelty Trio (consisting of piano, violin, marimba, and saxophone) will be heard in several numbers, and Mr. Simon Philipoff, who is recognised as a first-class artist on the balalaika, will be heard in "Caprice Viennois," "Caprice," and "Variation from Corelli." Elocutionary numbers by Mr. J. M. Clark will be Shakespeare's "Mark Anthony's Oration over the body of Caesar," and "The Story of the Old Ram" (by Mark Twain).

Vocal items, two of them being negro spirituals, will be heard from Miss Dorothy Lovelace Milne (soprano). Mr. Victor Baxter (bass-baritone) will sing among other songs, "The Two Grenadiers" and "Song of the Volga Boatmen." Mr. Cyril Towsey, studio pianist, will play "Prelude in D Flat" (Raindrop) and "Ballade in A."

Wellington Features

AT 7.40 p.m. there will be a talk by Mr. A. E. Wilson on "Tourist and Holiday Resorts."

The Orchestrina, under Signor A. P. Truda, will be heard in the overture, "Mayday" (by Wood), a selection, "Gipsy Princess" (by Kalman), and a fantasia, "Faust Frivolities," "La Gazelle," a valse, "Pluie D'Or," and the foxtrot, "Polly."

Dorrie and Laurie, a novelty duo, not previously heard from 2YA, will amuse listeners with patter and song.

Tenor songs by Mr. Oswald McGuinness, sung to orchestral accompaniment, will include "Come Into the Garden." (Continued on page 29.)

... at the price—the best buy in Speakers to-day ...

CROSLEY MUSICONE

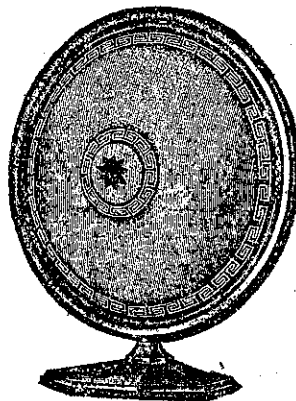
For Electric or Battery-operated sets. Special six-pole magnetic unit-floating cone.

Special Price 45/-

L. B. SCOTT LTD.

"THE BIG RADIO SHOP."

MANCHESTER STREET, CHRISTCHURCH.



Full Programmes for Next

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

Sunday, April 5

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

- 11.0 : Relay of Divine Service from St. David's Presbyterian Church.
 3.0 : Chimes. Selected recordings.
 3.15 : Literary selection.
 6.0 : Children's Song Service, conducted by "Uncle Bert."
 7.0 : Relay of Divine Service from St. Mary's Cathedral. Preacher, Canon William Fancourt. Organist and Choirmaster, Mr. Edgar Randall.
 8.30 : Orchestral—Société des Concerts du Conservatoire, Paris, "Le Rouet D'Omphale" (Saint-Saëns).
 Soprano—Miss Gwladys Payne, (a) "Peace" (Schubert); (b) "The Little Sandman" (Brahms); (c) "Thoughts Like Music."
 The Whisker Instrumental Quartet, (a) "Russian March" (Mary Brett); (b) "Serenade" (Schubert).
 Evening weather forecast and announcements.
 Clarinet—Mr. S. C. Lewis, (a) Fantasia—"Last Rose of Summer" (Lamotte); (b) "Romanze" (Ritter).
 Male choir—Ural Cossacks, (a) "Hej, Hej" (Trad'l); (b) "Signal March" (Kolatilin).
 The Whisker Instrumental Quartet, (a) "The Phantom Patrol" (Mary Brett); (b) "Spring Song" (Mendelssohn).
 Baritone—Mr. Frank Sutherland, (a) "O Divine Redeemer" (Gounod); (b) "The Radiant Morn" (James); (c) "Lead Kindly Light."
 Violin—H. Solloway, (a) "The Violin Maker of Cremona" (Hubay); (b) "Romanza Andalus" (Sarastate).
 The Whisker Instrumental Quartet, (a) "Musette" (Offenbach); (b) "Cleopatra Waltz" (Mary Brett).
 B.B.C. Wireless Military Band, "Le Reve Passe" (Helmer).
 10.0 : God save the King.

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

- 3.0 to 4.30 : Selected gramophone recordings.
 6.0 : Children's song service, conducted by "Uncle George," assisted by the Children's Choir, from the Cambridge Terrace Congregational Church.
 7.0 : Relay of evening service from the Terrace Congregational Church. Preacher, Rev. H. S. Newell. Organist and Choirmaster, Mr. Harry Brusey.
 8.15 (approx) : Record—London Symphony Orchestra, "Coriolan Overture."
 8.22 : Bass—Signor Cesaroni, "Easter Morning" (Himmel).
 8.25 : Soprano—Janet Stirling, "Gavotte from Mignon" (Thomas).
 8.28 : Mezzo-contralto—Eileen Higgins, two songs from "Carmen" (with explanatory remarks by Signor Cesaroni), (a) "Habanera" (solo, with chorus by the Company); (b) "Seguidilla."
 8.30 : Piano solo—Miss O. Reid, L.A.B., "Ballade in F Minor" (Chopin).
 8.44 : Two numbers from "Cavalleria Rusticana," with explanatory remarks by Signor Cesaroni, (a) "Santuzza's Romance" (Miss E. Standen); (b) Celebrated "Easter Chorus" by the Company.
 9.0 (approx.) : Official weather forecast and station announcements.
 9.2 : Recital by Bernard Page, city organist, on Town Hall organ: Portraits, Opus 101 (Karg-Elert); (a) No. 25, "Am Hardanger Fjord" (alla Grieg); (b) No. 18, "Vorspell zu Einem Drama" (alla Wagner); (c) No. 20, "Frauengunst" (alla Joh. Strauss).
 9.12 : Bass solo—Signor Cesaroni, "The Praise of God" (Beethoven).
 Duet—Bass, Signor Cesaroni; Tenor, Mr. R. Trewern, "Lend Me Thine Aid" (from "The Queen of Sheba") (Gounod).
 9.20 : Mezzo-contralto—Eileen Higgins, "Arise, Oh, Sun" (M. Craske Day).
 9.24 : Tenor—Mr. R. Trewern, "Meditation" (Massenet).
 9.28 : Record—San Francisco Symphony Orchestra, "Caprice Viennois."
 9.32 : Soprano—Janet Stirling, (a) "Songs My Mother Taught Me" (Dvorak); (b) duet—Soprano, Janet Stirling; Mezzo-contralto, Eileen Higgins, "Barcarolle" from "Tales of Hoffmann" (Offenbach).
 9.38 : Piano solo—Miss O. Reid, L.A.B., "Jardins Sous la Pluie" (Debussy).
 9.43 : Bass—Signor Cesaroni, "Arm, Arm, Ye Brave" from "Judas Macabens" (Handel).
 9.48 : Mezzo-soprano—Miss M. Brady, "The Holy City" (Adams).
 9.52 : Record—Berlin State Opera Orchestra, "Polonaise, No. 2" (Liszt).
 10.0 : God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SUNDAY, APRIL 5.

- 3.0 : Gramophone recital.
 5.30 : Children's song service.
 6.15 : Chimes from the studio.
 6.30 : Musical recordings from studio.
 7.0 : Relay of evening service from Christchurch Anglican Cathedral. Preacher, Bishop West-Watson. Organist and Musical Director, Dr. J. C. Bradshaw.

- 8.15 (approx) : Relay of programme from 4YA, Dunedin.
 10.0 : God save the King.

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

- 3.0 : Selected recordings.
 5.30 : Children's Song Service, conducted by "Big Brother Bill."
 6.15 : Selected recordings.
 6.30 : Relay of Evening Service from Methodist Central Mission, Octagon, Dunedin. Preacher: Rev. G. B. Hinton. Choirmaster: Mr. Mortley Peake.
 7.45 : Selected recordings.
 Studio programme.
 8.15 : Band—Garde Republicaine, "The Two Pigeons" (Messenger); (a) "Entrance of Tziganes"; (b) "Scene and March of the two Pigeons."
 8.23 : Bass—Mr. F. E. Woods, (a) "I Triumph, I Triumph" (Carissimi); (b) "The Rosary" (Nevin); (c) "I Arise from Dreams of Thee."
 Trio—Messrs. A. H. Pettitt, Lloyd and K. Hunter, (a) "Entrance Valse" (Helmsberger); (b) "Kol Nidrei" (Bruch); (c) "Trio in B Flat Major" (Fesca).
 8.47 : Band—H.M. Royal Air Force, "Gondolier and Nightingale" (Langley).
 8.51 : Soprano—Miss L. de Clifford, (a) "Supplication" (Beam); (b) "Come Unto Him" (Handel); (c) "Teach Me to Pray" (Gwyn-Williams).
 9.0 : Weather report and station notices.
 9.2 : Orchestral—Berlin State Opera, "Capriccio Italien" (Tschalkowsky).
 9.10 : Tenor—Mr. Ernest Drake, (a) "Last Night" (Kjeruls); (b) "Night-fall at Sea" (Montague-Phillips); (c) "At the Mid-Hour of Night."
 9.19 : Band—H.M. Grenadier Guards, "Sylvia Ballet" (Delibes, arr. Kappey); (1) "Valse Lente"; (2) "Pizzicato"; (3) "Barcarolle"; (4) "March."
 9.27 : Trios—Messrs. Pettitt and L. and K. Hunter, "Trio in G Major" (Fesca); (1) "Allegretto con Spirito"; (2) "Barcarolle"; (3) "Scherzo."
 9.42 : Male quartet—The Salisbury Singers, (a) "Found About a Wood" (Morley); (b) "Sleep Gentle Lady" (Bishop).
 9.48 : Piano—Mrs. C. Drake, "Jesu Christ, the Son of God" (Bach).
 9.53 : Band—National Military Band, "Ballet Egyptien" (Luigini).
 10.0 : God save the King.

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

- 6.0 : Children's service.
 8.15 : Studio concert.

Monday, April 6

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

- 12 noon : Relay of results of Auckland Racing Club's Autumn Meeting.
 6.0 : Dinner music session:
 Grand Symphony Orchestra, "Suite Orientale," (a) "March," (b) "On the Shore of the Ganges" (Francis Popy).
 Edith Lorand Orchestra, "Toreador and Andalous" (Rubinstein).
 Grand Symphony Orchestra, "Naila" (Delibes).
 Dajos Bela Orchestra, "Woodland Peace" (Favilla).
 Berlin State Opera House Orchestra, "The Barber of Seville" Overture.
 Edith Lorand Orchestra, "Minuet" (Boccherini).
 Grand Symphony Orchestra, "Suite Orientale," Part 4, "The Patrol" (Francis Popy); "Lastspiel Overture" (Kela Bela).
 Dajos Bela Orchestra, "The Court Ball" (Josef Lanner).
 Grand Symphony Orchestra, "Japanese Lantern Dance" (Yoshitome); "Suite Orientale," Part 3, "The Dancers" (Francis Popy).
 Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).
 Grand Symphony Orchestra, "Chinese Street Serenade" (Ludwig Siede).
 7.0 : News and market reports.
 8.0 : Chimes. Gordon Cole and His Civic Wintergarden Orchestra, (a) "Introductory Novelty" (arr. Cole); (b) "Singing a Song to the Stars," (c) "Wonderful Wedding" (Haines).
 8.11 : Tenor—Mr. J. Ainsley Daglish, (a) "When Through the Piazzetta" (Mendelssohn); (b) "Sing No More, Ladies" (Stevens).
 8.17 : Instrumental and vocal novelty—The Orchestra, (a) "Give Yourself a Pat on the Back" (Button); (b) "With My Guitar and You" (Snyder); (c) "It's a Great Life" (Pollock).
 8.28 : The Asquiths—"Twenty Minutes' Drawing-room Entertainment."
 8.48 : Violin—Mr. G. Fowler, "Fantaisie Hongroise" (arr. Fowler).
 Waltz—The Orchestra, "When the Organ Played at Twilight" (Connolly); foxtrot, "When You're Counting the Stars Alone" (Russell).
 9.0 : Evening weather forecast and announcements.
 9.2 : Tenor—Mr. J. Ainsley Daglish, (a) "Fly Away, Nightingale" (Rubinstein); (b) "Elly Mavourneen" (Benedict).

Week-all Stations-to Apl. 21

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

- 9.8 : Instrumental and vocal novelty—The Orchestra, (a) "Bye Bye Blues" (Bennet), (b) "Two Latest Hits."
- 9.19 : Piano—Miss Dorothea Ryan, "Pianoforte Improvisations."
- 9.30 : Programme of dance music from the Studio:
Foxtrots—Alfredo and His Band, "Sweetheart of All My Dreams,"
The Blue Jays, "Dance of the Paper Dolls" (Tucker).
Alfredo and His Band, "Deep Night" (Henderson).
The Blue Jays, "The Toymaker's Dream" (Golden).
- 9.42 : Waltzes—Alfredo and His Band, "My Song of the Nile" (De Sylva);
"I'll Always be in Love with You" (Ruby).
Foxtrots—Alfredo and His Band, "Turn on the Heat" (De Sylva);
"This is Heaven" (Yellen); "If I Had a Talking Picture of You."
Vocal—G. H. Elliott, "Muddlin' Thro" (Howard Flynn).
- 10.0 : Foxtrots—Alfredo and His Band, "Little Pal" (De Sylva); "Laughing
Marionette" (Collins); "Why Can't You?" (De Sylva).
Waltzes—Alfredo and His Band, "Sometimes" (Elizalde); "Let Me
Dream in Your Arms Again" (Nicholls).
- 10.15 : Vocal—Stanley Kirkby, "My Mother's Eyes" (Baer).
Foxtrots—Radio Rhythm Boys, "Painting the Clouds with Sunshine."
Alfredo and His Band, "Mean to Me" (Turk).
Radio Rhythm Boys, "Tiptoe Thro' the Tulips with Me."
The Plaza Band, "A Precious Little Thing Called Love."
- 10.30 : Waltz—Alfredo and His Band, "Lady Divine" (Shilkret).
Foxtrot—Harry Hudson's Melody Men, "Why Do I Love You?" (Kern).
Two-step—Bal Musette Orchestra, "Mayoerqua" (Brunel).
Vocal—G. H. Elliott, "Yodelling Coon" (Howard Flynn).

- 10.42 : Foxtrots—Alfredo and His Band, "I've Never Seen a Smile Like Yours" (Johnson); "I Think of What You Used to Think of Me." Harry Hudson's Melody Men, "Ol' Man River" (Kern).
Alfredo and His Band, "I don't Know Why I Do It, But I Do"; "Do Something" (Green, Stept).
Dutch Dance—Bal Musette Orchestra, "Rafle" (Berniaux).
- 11.0 : God save the King.

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

- 3.0 : Chimes. 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.
Royal Albert Hall Orchestra, "Carmen Prelude Act 1" (Bizet).
National Symphony Orchestra, "Sylvia Ballet Cortege De Bacchus."
Organ—Reginald Foort, "Schron Rosmarin" (Kreisler).
Marek Weber's Orchestra, "Vienna by Night" (Komzak).
Cello—Lauri Kennedy, "Hungarian Rhapsody" (Popper).
National Symphony Orchestra, "Bohemian Girl" Selection (Balfe).
Royal Albert Hall Orchestra, "Carmen Prelude Act 2" (Bizet).
Organ—Reginald Foort, "A Brown Bird Singing" (Haydn-Wood).
Royal Opera Orchestra, "Waltz" (from "The Sleeping Beauty").
Band of H.M. Coldstream Guards, "H.M.S. Pinafore" (Sullivan).
- 7.0 : News session, market reports and sports results.
- 7.40 : Lecturette—Mr. Walter F. Giles, A.H.R.H.S., "Plant Breeding and Seed Production in England."
- 8.0 : Chimes.
Overture—Zurich Tonhalle Orchestra, "Il Seraglio."
- 8.9 : Bass—Mr. Harison Cook with orchestral accompaniment, (a) "When a Maiden Takes Your Fancy" (from "Il Seraglio" (Mozart); (b) "The Serenade of Mephistopheles" (from "Faust") (Gounod); (c) "O'er the Moor" (Old Highland Love Song; traditional).
- 8.19 : Selection—2YA Orchestrina (Conductor Signor A. P. Truda) "Barber of Seville" (Rossini).
Cornet with orchestral accompaniment—"Adieu" (Schubert).
- 8.28 : Mezzo-soprano—Miss Christina Young, "Fair Spring is Returning" (from "Samson and Delilah") (Saint Saens).
- 8.32 : Cello—Gaspar Cassado, (a) "Pipillon" (Faure); (b) "Arlequin."
- 8.40 : Vocal duet—Miss Christina Young and Mr. Harison Cook, with orchestral accompaniment, "I Crave To Satisfy My Hate" (from "Samson and Delilah") (Saint Saens).
- 8.44 : Piano—Mr. Gordon Short, (a) "Impromptu in A Flat"; (b) "Marche Militaire" (Schubert).
- 8.52 : Selection—2YA Orchestrina, "Andante" (from "Symphony No. 5").
- 9.0 : Weather report and station notices.
- 9.2 : Selection—Orchestrina, "La Traviata" (Verdi).
- 9.10 : Mezzo-soprano—Miss Christina Young with violin obligato, (a) "Were I a Moth" (Montague Phillips); (b) "Eyes of Blue."
- 9.16 : Trio—Dr. Ormandy's Trio, (a) "Barcarolle" (from "Tales of Hoffman") (Offenbach); (b) "From the Land of Sky Blue Waters."
- 9.22 : Bass—Mr. Harison Cook, (a) "Oh, How I Shall Triumph" (from "Il Seraglio") (Mozart); (b) "The Leader of the Town Brass Band" (Longstaffe); (c) "The Arguing Wife" (Davies).
- 9.32 : Instrumental—Orchestrina, (a) "Hungarian Dance No. 5" (Brahms); (b) "Serenade" (Rubinstein).
- 9.40 : Vocal duet—Miss Christina Young and Mr. Harison Cook, with orchestral accompaniment, "Underneath the Trees" (Newton).
- 9.44 : Violin—Jascha Heifetz, (a) "Jota" (De Falla); (b) "Puck" (Grieg, arr. Achron); (c) "On Wings of Song" (Mendelssohn).
- 9.52 : Waltz—Orchestrina, "Brunette or Blonde" (Waldteufel).
- 10.0 : Dance programme.
Foxtrots—Broadway Players, "I'm Following You" (Dreyer).
Carl Fenton and His Orchestra, "Bless Her Little Heart."
Broadway Players, "Redhead" (Embry).
Carl Fenton and His Orchestra, "That Wonderful Something is Love" (Goodwin).
- 10.12 : Waltz—Broadway Players, "All Day Long" (Cross).
Foxtrots—Cova Cavaliers, "Mona" (Conrad).
Carl Fenton and His Orchestra, "A Little Kiss Each Morning" (Harry).
- 10.21 : Vocal—F. Luther, C. Robinson, "Sweet Virginia" (C. Robinson).
- 10.24 : Foxtrots—Cova Cavaliers, "How Long Must I Wait For You?"
New Yorkers, "Oriental Moonlight" (Seamen).
Carl Fenton and His Orchestra, "Hello Little Sweetheart."
Pletcher's Eli Prom Trotters, "That's Where You're Wrong."
- 10.36 : Waltz—Broadway Players, "Shepherd's Serenade" (Grey).
Foxtrots—Zenith Knights, "Congratulations" (Pinkard).
Pletcher's Eli Prom Trotters, "I Like To Do Things For You" (Ager).
- 10.45 : Vocal—F. Luther, C. Robinson, "Down on the Old Plantation."
- 10.48 : Foxtrots—Jack Moutrose Orchestra, "I'm So Tired of It All" (Hanley).

An Easter SURPRISE!

NEARLY two thousand years ago people began to celebrate Easter in the most joyful fashion of the day. Like as not music played an important part in their programme.

Easter, 1931, will witness to-day's most modern achievement—radio—add to the delights and fancies of all those who appreciate music.

Is YOUR home equipped with radio? Will YOUR house be a home or just a house without radio this Easter and winter?

Why not make this a Radio Easter? Ring up or call on your local Stewart-Warner Radio Dealer to show you how, with the aid of electricity, up-to-the-minute musical programmes can be reliably brought into your home and to your family by the fireside. Make it a surprise for them if you will, but ACT NOW. Good reception of distant and local programmes is here again with the winter months.

Get your Stewart-Warner Radio early and enjoy a full winter's entertainment right from now.

We will appreciate a special call at our Warehouse Showroom if you prefer it. Latest models now ready for inspection.

Radio

Hope Gibbons Ltd

Division

AUCKLAND

CHRISTCHURCH

WELLINGTON.

Broadway Players, "Should I Be Sorry" (Kapp); "With You" (Berlin).

New Yorkers, "Under a Texas Moon" (Ray Perkins).

11.0 : God save the King.

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

12.0 : Results of Canterbury Jockey Club meeting, Riccarton, interspersed with musical recordings.

5.0 : Children's Hour, conducted by "Cousin Margot" and the "Mystery Man."

8.0 : Dinner music session.

Military Band (of specially selected musicians), "Ever or Never."
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, "Crepuscle" Tango (Bianco).

Salon Orchestra, "Mem'ries" (Neely-Sanford).

J. H. Squire's Celeste Octet, "Traume" (Wagner-arr. Willoughby).

Gustav Holst conducting the London Symphony Orchestra, "Marching Song" (Gustav Holst).

J. H. Squire's Celeste Octet, "Albumbblatt."

The Elite Dance Orchestra, "In Einer Konditorei" Tango.

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 session.

7.30 : Mr. N. M. Bell, M.A. "Esperanto."

8.0 : Chimes.

Band programme by Derry's Military Band (Conductor Mr. J. Scott) and assisting 3YA artists.

March—Band, "College Life" (Frautzen); Slow Waltz, "My Desert Rose" (Terise).

8.10 : Songs at the piano—Mr. Jack Blair, (a) "The Song That I Sing In My Dreams" (Hanley); (b) "One Alone" (Romberg).

8.16 : Piano novelties—Miss Maisie Ottey, (a) "Sky Blue" (Bradley); (b) "Hit or Miss" (Buck Wilson).

8.22 : Intermezzo—Band, "A Reverie" (Hume).

8.28 : Contralto—Mrs. S. M. Williamson, (a) "Fisher Lad" (Craske Day); (b) "Down the Shallow River" (Clarke).

8.34 : Balalaika Orchestra, Gorskaja, (a) "Stand Ein Birkenbaum"; (b) "Volga Folk Song" (trdtl.).

8.40 : Humour—Mr. H. Instone, "The Veteran's Story" (arr. Instone).

8.45 : Organ—Jesse Crawford, "I Love to Hear You Singing."

8.48 : Chorus—Musical Comedy Chorus, "Miniature Musical Comedy."

8.56 : Foxtrot—Band, "They Cut Down the Old Pine Tree" (Brown).

9.1 : Weather report and station notices.

9.2 : International Novelty Quartet, (a) "The Dicky Bird Hop" (Gourley); (b) "The Clock is Playing" (Blaaw).

9.9 : Cabaret Song—Mr. Jack Blair, "In the Land of Make Believe."

9.12 : Piano novelty—Miss Maisie Ottey, "Ruffen Reddy" (Roy Bargy).

9.15 : Male quartet—The Four Aces, (a) "You'll Never Know, Sweetheart" (Kirkeby); (b) "Moonlight on the Colorado" (Moll).

9.21 : Waltz—Band, "Jeunesse Doree" (Waldteufel).

9.28 : Humour—Mr. H. Instone, "Editing a Lady's Paper."

9.33 : Potpourri—Band, "Melodious Memories" (Pinck).

9.44 : Contralto—Mrs. S. M. Williamson, "The Enchantress" (Hatton).

9.50 : Foxtrot—Band, "A New Kind of Love" (Hume); March, "Serenade."

10.0 : Dance programme.

Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "Hang-in' on the Garden Gate" (Kahn).

Ben Bernie and His Orchestra, "Have a Little Faith in Me."

Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad).

Waltz—Castlewood Marimba Band, "Springtime, Lovetime, You."

Foxtrots—Colonial Club Orchestra, "I Never Dreamt" (Parsons).

Bob Haring and His Orchestra, "I'm in the Market for You."

10.18 : Vocal trio—Earl Burnett's Biltmore Trio, "If I Can't Have You."

Foxtrots—Tom Olines and His Music, "So Sympathetic" (Kahn).

Ben Bernie and His Orchestra, "Let Me Sing And I'm Happy" (Berlin).

Tom Olines and His Music, "Alone With My Dreams."

Waltz—Castlewood Marimba Band, "Melancholy Moon" (Ford).

10.33 : Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Just Another Night With You" (Newman).

Tom Olines and His Music, "The Free and Easy" (Turk).

Lloyd Huntley and His Isle o' Blues Orchestra, "Take Me."

Vocal Trio—Earl Burnett's Biltmore Trio, "Out of the Past."

10.45 : Foxtrots—Colonial Club Orchestra, "I'm on a Diet of Love" (Gilbert); "Like a Dream" (Rose); "We'll Build a Little World of Our Own" (Brockman).

Bob Haring and His Orchestra, "Just Like in a Story Book."

Waltz—Tom Olines and His Music, "It Must Be You" (Turk).

11.0 : God save the King.

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

2.0 : A description of games in the South Island Tennis Championships, relayed from Logan Park.

5.0 : Children's hour, conducted by "Big Brother Bill."

6.0 : Dinner music session:

Symphony Orchestra, "Die Fledermaus" (J. Strauss).

Paul Godwin Orchestra, "Japanese Cherry Blossom Festival" (Yochitome); "Egyptian March" (Joh. Strauss); "The Circus Princess" (Kalman).

Ilya Livschakoff and His Orchestra, "Estrellita" (Ponce, Davis).

Paul Godwin Orchestra, "Japanese Lantern Dance" (Yochitome).

State Opera Orchestra, Berlin-Charlottenburg, "La Gazza Ladra."

Paul Godwin Orchestra, "Spring's Awakening" (Bach).

Ilya Livschakoff and His Orchestra, "Pas des Escharpes" (Chaminade).

Paul Godwin and His Orchestra, "Third Waltz Medley" (Robrecht).

7.0 : News session and sports results.

8.0 : Chimes. Overture—Bournemouth Municipal Orchestra, "Pique Dame."

8.9 : Popular songs at the piano—Miss Rita Holmes, (a) "A Pair of Blue Eyes" (Kernell), (b) "I Feel You Near Me" (from "Song o' My Heart" (Hanley), (c) "Love is Like a Song" (from "What a Widow") (Youmans).

8.18 : Selection—Novelty Orchestra, "Blue Kitten" (Friml).

Violin—Miss Eva Judd, "Old Folks at Home" (Kreisler).

8.33 : Scots humour—Mr. James A. Paterson, (a) "While the Wedding Bells Were Ringing" (McFarlane), (b) "Come and See the Baby" (Fyffe), (c) "Mrs. McGinty's 'At Home'" (Morrison).

8.46 : Selection—Novelty Orchestra, "Rainbow" (Gershwin).

8.56 : Chorus—Light Opera Company, "King of Jazz."

9.0 : Weather report and station notices.

9.2 : Band—H.M. Grenadier Guards, "Regimental March Medley."

9.10 : Mezzo-soprano—Miss Alleen Young, (a) "June Rapture" (Lehmann), (b) "The Soldier's Wife" (Rachmaninoff), (c) "Lullaby" (Scott).

9.22 : Clarinet—Mr. J. McCaw, "Slippin'" (Graig).

Selection—Novelty Orchestra, (a) "Cossack's Wedding Fete" (Krein), (b) "Three Little Words" (Ruby).

9.32 : Humour—Mr. J. B. Flynn, (a) "The Monk Felix" (Longfellow), (b) "An Old Sweetheart of Mine" (Reilly).

9.42 : Balalaika Orchestra, Gorskaja, "Das Bachlein" (traditional).

9.45 : Baritone—Mr. Noel H. North, (a) "Winnin' Thro" (Hope), (b) "In Violet-Time" (Drummond), (c) "At Dawning" (Ditson).

9.54 : Waltz—Novelty Orchestra, "Destiny" (Baynes).

10.0 : Dance music programme:

Foxtrots—Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "When the Little Red Roses Get the Blues for You" (Dubin); "Puttin' on the Ritz" (Berlin); "Leven-Thirty Saturday Night."

Waltz—Regent Club Orchestra, "It Happened in Monterey" (Rose).

10.12 : Foxtrots—Ben Bernie and His Orchestra, "To My Mammy" (Berlin); Slatz Randall and His Orchestra, "What a Perfect Night for Love" (Leuzen).

10.18 : Vocal—Chester Gaylord, "Any Time's the Time to Fall in Love."

10.21 : Foxtrots—Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Courtin' Time" (Stoddard).

Meyer Davis's Hotel Astor Orchestra, "Oh! How I Adore You" (Stoddard).

Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Song of the Dawn" (Yellen).

Foxtrot—Roger Wolfe Kahn and His Orchestra, "Dark Night" (Grey).

10.33 : Waltz—Meyer Davis's Hotel Astor Orchestra, "Farewell" (Stoddard).

10.36 : Foxtrots—Ben Bernie and His Orchestra, "Looking at You" (Berlin).

Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "There's Danger in Your Eyes, Cherie" (Richman).

Slatz Randall and His Orchestra, "Sweetheart Trail."

10.45 : Vocal—Chester Gaylord, "Blue is the Night" (Fisher).

10.48 : Waltz—Colonial Club Orchestra, "Why Don't You Love Me?" (Mason).

Foxtrots—Roger Wolfe Kahn and His Orchestra, "Into My Heart."

Louis Panico and His Orchestra, "Wabash Blues" (Meinken).

Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "With You" (Berlin).

11.0 : God save the King.

8XB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, APRIL 6.

6.30 : Children's session.

7.30 : News, markets, and information.

8.0 : Studio concert.

Tuesday, April 7

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

8.0 : Selected recordings.

8.15 : Talk—Mrs. Les Crane, "Health of Mind and Body in Relation to Diet."

5.0 : Children's session, conducted by "Uncle Dave."

6.0 : Dinner music session:

Milan Symphony Orchestra, "Mignon" Overture (Thomas).

H. G. Amers and the Eastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler).

Jean Lensen and His Orchestra, "Millions d'Arlequin" (Drigo).

Columbia Symphony Orchestra, "Al Fresco" (Herbert).

Symphony Orchestra, "Hungarian March" (Berlioz).

Jean Lensen and His Orchestra, "Si Mes Vers Avalent des Ailes."

Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs."

J. H. Squire's Celeste Octet, "Valse Caprice" (Rubinstein, arr. Crooke).

H. G. Amers and the Eastbourne Municipal Orchestra, "Silhouettes" (Arensky); (a) "Introduction," (b) "La Coquette."

Bernardo Gallico and His Orchestra, "The Clock is Playing" (Blaauw).
H. G. Amers and the Eastbourne Municipal Band, "Dancing Doll"
(Poupee Valsante) (Poldini); "Silhouettes—The Dreamer."
Columbia Symphony Orchestra, "Badinage" (Herbert).
Zurich Tonhalle Orchestra, "Il Seraglio" Overture (Mozart).
Symphony Orchestra, "Coppello Ballet—Entr'acte and Valse" (Delibes)

7.0 : News and market reports.

7.40: Talk—Mr. N. M. Richmond, under the auspices of the W.E.A., "Democracy—Do we want it and can we have it?"

8.0 : Chimes. Selection—Orchestral Octet, under direction of Mr. Harold Baxter, "Isolde's Liebestod" (from "Tristan and Isolde") (Wagner); march, "Him" (Myddleton).

8.9 : Soprano—Madame Cora Melvin, "The Songster's Awakening."
Vocal duet—Madame Cora Melvin and Mr. Norman Day, "A May Morning" (Denza).

Baritone—Mr. Norman Day, "Son of Mine" (Wallace).

8.20: Selection—Orchestral Octet, "Czardas," No. 1 (Moretti); characteristic, "Chinese Festival" (Pickard); overture, "Echo des Bastions."

8.34: Contralto—Miss Doris Moore, (a) "Cradle Song" (Kreisler), (b) "O Flower of All the World" (Woodforde-Finden).

8.40: Selection—Orchestral Octet, "Lucia di Lammermoor" (Donizetti).

8.47: Mr. A. B. Chappell, M.A., "Topical Talk."

9.2 : Evening weather forecast and announcements.

9.4 : Selection—Orchestral Octet, "You're in Love" (Friml).

9.12: Soprano—Madame Cora Melvin, "Berceuse" (Rimsky-Korsakov).
Vocal duet—Madame Cora Melvin and Mr. Norman Day, "In a Garden of Roses" (Sanderson).

Baritone—Mr. Norman Day, "The Rebel" (Wallace).

9.22: Waltz—Orchestral Octet, "Wiener Luft" (Zelhrer).

Intermezzo, "Dance des Grisettes" (Leigh).

9.28: Contralto—Miss Doris Moore, "My Jewels" (Sanderson).

9.32: Programme of dance music from the Studio:

Jesse Stafford and His Orchestra, "I'm Sailing on a Sunbeam," "Rag-muffin Romeo," "A Bench in the Park."

9.41: Waltzes—The Thematics Orchestra, "Giovanna" (Kountz).

Regent Club Orchestra, "The Moonlight Reminds Me of You" (Kahn).
Vocal—Marion Harris, "Wasn't It Nice?" (Young).

9.50: Foxtrots—Colonial Club Orchestra, "It's You I Love" (Davis).
Jack Denny and Mount Royal Hotel Orchestra, "Whip-Poor-Will" (De Voll).

Waltz—Castlewood Marimba Band, "A Night of Love in Hawaii."

9.59: Foxtrots—Meyer Davis's Hotel Astor Orchestra, "Blue is the Night."
Colonial Club Orchestra, "Why?" (Davis).
Jesse Stafford and His Orchestra, "I'm Following You."

Waltzes—Regent Club Orchestra, "Dancing with the Tears in My Eyes" (Dubin).

Castlewood Marimba Band, "My Heart Belongs to the Girl Who Belongs to Somebody Else" (Sherman).

10.14: Foxtrots—Hal Kemp and His Orchestra, "Give Yourself a Pat on the Back" (Butler).

Tom Gerun and His Orchestra, "Absence Makes the Heart Grow Fonder" (Lewis).

Bob Haring and His Orchestra, "I Still Remember" (Tobias).

Tom Clines and His Music, "Wasn't It Nice?" (Young).

Colonial Club Orchestra, "Stein Song" (Colcord).

Waltz—Castlewood Marimba Band, "Down the River of Golden Dreams" (Klenner).

10.32: Foxtrots—Meyer Davis's Hotel Astor Orchestra, "Nobody Cares If I'm Blue" (Clarke, Akst).

Hal Kemp and His Orchestra, "If I Had a Girl Like You."

Meyer Davis's Hotel Astor Orchestra, "Ro-ro-rolin' Along."

10.41: Vocal duet—Al and Pete, "That's Why I'm Jealous of You" (Rose).

10.44: Foxtrots—Tom Clines and His Music, "You Darlin'" (Woods).

Jack Denny and His Mount Royal Hotel Orchestra, "Dream Avenue" (Tobias).

Tom Clines and His Music, "You for Me" (Jason); "Be Careful With Those Eyes" (Woods).

10.56: Waltzes—Castlewood Marimba Band, "My Reveries" (White).

Regent Club Orchestra, "Because There's a Change in You."

11.2 : God save the King.

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

3.0 : Chimes. Selected gramophone recital.

3.30 and 4.30: Sporting results to hand.

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

6.0 : Dinner music session:

New Mayfair Orchestra, "Lilac Time" (Schubert, arr. Clutsum).

San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski), (b) "Aubade" (Auber).

Creatore's Band, "Semiramide" Overture (Rossini).

New Light Symphony Orchestra, "Spanish Serenade" (Bizet); "Narcissus" (Nevin).

Trio—De Groot, Pacey, Gibilaro, "O Sole Mio" (Di Capua).

San Francisco Symphony Orchestra, "Liebesleid" (Kreisler); "Valse de Concert" (Glazounov).

New Light Symphony Orchestra, "Spring Song" (Mendelssohn).

National Symphony Orchestra, "William Tell" Overture (Rossini).

New Light Symphony Orchestra, "Spanish Dance No. 1" (Moszkowski).

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), "Echoes from the Volga" (arr. Seredy).

8.9 : Baritone—Mr. W. E. Crewes, with orchestral accompaniment, (a) "Wayfarer's Night Song," (b) "Crown of the Year."

8.15: Two pianos—Wilhelm Goss and Walter Kauffmann, "Shimmy and Tango" from "Baby in the Bar" (Gross).

8.21: Siffleur—Mr. E. T. Feeney, "O Sole Mio" (Di Capua).

8.25: Novelty—Standen and Gibson, (a) "My Blue Ridge Mountain Home" (Robison), (b) "I Love You So Much" (Ruby).

8.32: Dialogue—Clapham and Dwyer, "Photography."

8.38: Contralto—Mrs. M. R. Nicolson with violin obligato, (a) "The Carpet" (Sanderson), (b) "The Joy Bird" (Barnes).

8.44: Suite—Salon Orchestra, "A Day in May" (Friml).

8.52: Chorus—Light Opera Company, "Lily of Killarney" vocal gems.

9.0 : Weather report and station notices.

9.2 : Band—Callender's Cable Works Band, "A Sailor's Life" (Cope).

9.7 : Novelty—Standen and Gibson, (a) "Go Home and Tell Your Mother" (McHugh), (b) "Down the River of Golden Dreams" (Shilkret).

9.13: Tone poem—Salon Orchestra, (a) "Orientale" (Cui), (b) "Romance Boheme" (Farman).

9.21: Baritone—Mr. W. E. Crewes with orchestral accompaniment, (a) "Sweet Little Lady" (Spross), (b) "The Pagan" (Lohr).

9.28: Zither—George Freundorfer, (a) "The Little Pagoda" (Benatzky), (b) "Isar Waves" (Freundorfer).

9.34: Selection—Salon Orchestra, "Best of All" (Williams).

9.43: Contralto—Mrs. M. R. Nicolson with violin obligato, "I Love to Hear You Singing" (Haydn Wood).

9.45: Siffleur—Mr. E. T. Feeney, (a) "When Lights Are Low" (Florito), (b) "When it's Springtime in the Rockies" (Sauer).

9.50: Instrumental—Salon Orchestra, "Latest Dance Novelties."

10.0 : God save the King.

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

12.0 : Results of Canterbury Jockey Club's meeting at Riccarton, interspersed with musical recordings.

5.0 : Children's hour, "Aunt Pat."

6.0 : Dinner music session:

March—American Legion Band, "The Conqueror" (Teike).

Selection—Savoy Orpheans, "Lido Lady" (Rodgers).

New Light Symphony Orchestra, "Rustic Wedding Symphony."

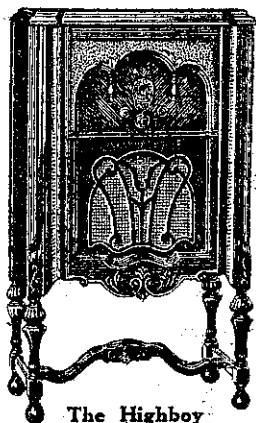
Victor Olof Sextet, "To a Water-Lily" (Macdowell).

Berlin State Opera Orchestra, "The Caliph of Bagdad" (Boildieu).

New Light Symphony Orchestra, "Spanish Dance" (Moszkowski).

EMBODYING EVERY REQUISITE MAKING FOR BETTER

RADIO SATISFACTION



The Highboy

THE Gulbransen Radio receiver invites comparison with any competitor's instrument retailing anywhere near its price. It has every requisite to complete ready Radio satisfaction.

With perfected Tone Control, Triple Screen-Grid, and 245 Push Pull, just to mention a few features. It offers the soundest investment in Radio to-day.

There is no obligation to buy when inspecting this famous receiver at your local dealer's shop.

SEE YOUR LOCAL DEALER FOR A DEMONSTRATION

The 1931 Gulbransen "CHAMPION"

N.Z. Distributors:

H. W. CLARKE LTD.

WAKEFIELD STREET,

WELLINGTON.

- Organ—Reginald Foort, "Just Like a Darby and Joan" (Gilbert).
 Jack Hylton's Orchestra, "The Selfish Giant" (Coates).
 Victor Olof Sextet, (a) "To a Wild Rose," (b) "In Autumn."
 Violin and organ—De Groot and Terence Casey, "Parted" (Tosti).
 Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli).
 Organ—Reginald Foort, "Love Lies" (Kellard).
 March—American Legion Band, "Iowa Corn Song" (arr. Beeston).
- 7.0 : News session.
 8.0 : Chimes. Overture—Percy Pitt and Symphony Orchestra, "Poet and Peasant" (Suppe).
 8.8 : Vocal—Valencia Quartet, "March of the Men of Harlech" (Welsh).
 Tenor—Mr. T. G. Rogers, "Tom Bowling" (Dibdin).
 8.13 : Clarinet—Mr. M. E. Withers, "Polonaise Mignon" (Thomas).
 8.18 : Soprano—Miss Lucy Fullwood, "The Hills of Donegal" (Sanderson).
 8.21 : Steel guitar and ukulele—Miss Winifred Jeffries and Mr. T. Kennedy, (a) "Under a Texas Moon" (Perkins); (b) "Angela Mia" (Pollock).
 8.27 : Humour in song and story—Mr. Jock Lockhart, introducing "Love Limited" (Weston Lee).
 8.33 : Piccolo duet—Jean and Pierre Gennin, "The Jolly Whistlers."
 8.37 : Contralto—Miss Jean Johnson, "Song of the Little Folk" (Coates).
 Tenor and bass—Valetta Duo, "Larboard Watch" (Williams).
 8.48 : Violin and piano—The Syncopators, "Old-Time Melodies."
 8.51 : Bass—Mr. E. J. Johnson, "Young Tom o' Devon" (Russell).
 Vocal—Valencia Quartet, "Widow Malone" (Irish traditional).
 8.56 : Mouth-organ duo—Messrs. M. G. Laws and R. Johnstone. Solo, R. Johnstone, (a) "Tip Toe Thru the Tulips"; (b) duet, "Springtime in the Rockies"; (c) solo, M. G. Laws, "Killarney."
- 9.2 : Weather forecast and station notices.
 9.4 : Rio Novelty Orchestra, "Spaventa" Tango (Pares).
 9.8 : Vocal—Valencia Quartet, "My Little Pretty One" (Shaw).
 Tenor—Mr. T. G. Rogers, "Come to the Fair" (Easthope Martin).
 9.13 : Clarinet—Mr. M. E. Withers, "Serenata" (Toselli).
 9.18 : Contralto—Miss Jean Johnson, "The Melody of Life" (Leigh).
 9.21 : Steel guitar and ukulele—Miss Winifred Jeffries and Mr. T. Kennedy, (a) "Wailana" (Alan), (b) "Little White Lies" (Donaldson).
 9.27 : Humour in song and story—Mr. Jock Lockhart, introducing "Man Without Woman" (Elliot—Rutherford).
 9.32 : Organ, violin, and cello—Sandy Macpherson, (a) "Eleanor" (Deppen), (b) "Dancing Animal Crackers" (Steiner).
 9.37 : Soprano—Miss Lucy Fullwood, "Piper June" (Carew).
 9.40 : Violin and piano—The Syncopators, "Liebestraume."
 9.45 : Bass—Mr. E. J. Johnson, "Song of the Waggoner" (Breville Smith).
 Vocal—Valencia Quartet, "Softly Fall the Shades of Evening."
 9.51 : Mouth-organ duo—Messrs. M. G. Laws and R. Johnstone. Solo, M. G. Laws, "Look for the Silver Lining"; duet, "My Blue Ridge Mountain Home"; solo, R. Johnstone, "Count of Luxembourg Waltz."
 9.57 : Band—H. M. Grenadier Guards, "Middy March" (Alford).
 10.1 : God save the King.

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

- 2.0 : A description of games in the final day's play of the South Island Tennis Championships, relayed from Logan Park.
 5.0 : Children's Hour, conducted by "Big Brother Bill" and "Wendy."
 6.0 : Dinner music session.
 Royal Opera Orchestra, "Praeludium" (Jarnefeldt).
 Waltz—Royal Opera Orchestra, "Eugénie Onegin" (Tchaikowsky).
 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 a Marionette" (Gounod).
 San Francisco Symphony Orchestra, "March Militaire" (Schubert).
- 7.0 : News session, including final results of South Island Tennis Championships.
 8.0 : Chimes.
 Studio programme by the Dunedin Tramways Band, under the direction of Mr. Chas. T. Morgan, assisted by 4YA artists.
 March—Band, "The Mad Major" (Alford); foxtrot, "Little White Lies" (Donaldson).
 8.9 : Vocal duet—Miss Myra Stokes and Mr. N. C. Gamble, "The Wings of the Dove" (Watson).
 8.14 : Accordeon—Medard Ferrero, (a) "Czardas" (Monti); (b) "Hungarian Dance No. 5" (Brahms).
 8.20 : Selection—Band, "Gems of Old England" (Rimmer).
 8.30 : Baritone—Mr. N. C. Gamble, "A Song of Surrey" (Lohr).
 8.33 : Cornet with band—"The Holy City" (Adams).
 8.40 : Soprano—Miss M. Vickers, "Love, Laughter and You" (Sanderson).
 8.43 : Organ—Leo Stin, (a) "Berceuse De Jocelyn" (Godard); (b) "Le Petit Quinquin" (Dessousseaux).
 8.49 : Tenor—Mr. W. H. Satterthwaite, (a) "An Evening Song" (Blumenthal); (b) "You in a Gondola" (Clarke).
 8.55 : Foxtrot—Band, "Ro, Ro, Rolling Along" (Mencher).
 9.0 : Weather report and station notices.
 9.2 : Regal Cinema Orchestra, "Show of Shows" Selection.
 9.10 : Vocal duets—Miss Myra Stokes and Mr. N. C. Gamble, (a) "Oh! The Summer" (Coleridge-Taylor); (b) "I Would That the Love."

- 9.16 : Patrol—Band, "Red, White and Blue" (Meacham).
 9.23 : Soprano—Miss M. Vickers, (a) "The Spinning Wheel" (Thomson); (b) "My Rose" (Lacy).
 9.29 : Violin—Gustav Link, (a) "A Toi" (Vecsey); (b) "Gayotte" (Rameau).
 9.35 : Waltz—Band, "Sunset on the St. Lawrence" (Heller).
 9.42 : Tenor—Mr. W. H. Satterthwaite, "Fiddle And I" (Goodeve).
 9.45 : Euphonium with band, "Simple Aven" (Thome).
 9.51 : Contralto—Miss M. Stokes, "The Lullaby Trees" (Besly).
 9.54 : Chorus—Light Opera Company, "High Society Blues" (Hanley).
 9.57 : March—Band, "Call of the East" (Thomas).
 10.1 : God save the King.

Wednesday, April 8

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

- 3.0 : Selected recordings.
 3.15 : Literary selection.
 5.0 : Children's session, conducted by "Uncle Reg."
 6.0 : Dinner music session.
 Paul Godwin's Orchestra, "The Czarewitsch" (Lehar); "Liliputian's Wedding" (Translaeur).
 Paul Godwin's Orchestra, with organ, "Adoration" (Filipucci).
 Great Symphony Orchestra, "The Gipsy Princess" (Kalman).
 Paul Godwin's Orchestra, with organ, "Invocation" (Ganne).
 Paul Godwin's Quintet, "Vision" (Drdla).
 Opera Orchestra Berlin-Charlottenburg, "Si J'Etais Roi" (Adam).
 Paul Godwin's Dance Orchestra, "Little Butterflies" (Steinke).
 Paul Godwin's Quintet, "Chant D'Amour" (Franz Drdla).
 Paul Godwin's Jazz Symphonians, "Lots of Fun" (Morena).
- 7.0 : News and market reports.
 7.40 : Talk—Mr. Norman Kerr, "Physical Culture."
 8.0 : Chimes.
 March—Orchestral Octet, conducted by Harold Baxter, "Electric Girl" (Helmberg); Ballet, "Sylvia" (Delibes).
 8.13 : Soprano—Miss Marjorie Fair, (a) "Madrigal" (Chaminade); (b) "In My Wild Mountain Valley" (from "Lily of Killarney" (Benedict).
 8.20 : Baritone—Mr. A. G. McPhail, (a) "One Alone" (Romberg); (b) "Friend" (Davies).
 8.27 : Fantasia—Orchestral Octet, "The Evolution of Dixie" (Lake).
 8.35 : Humour—Mr. Trevor Binns, "Season Tickets" (Anonymous).
 8.43 : Contralto—Miss Evelyn Robinson, (a) "Easter Flowers" (Sanderson); (b) "Alleluia" (O'Connor-Morris).
 8.50 : Suite—Orchestral Octet, "Music Pictures" (Foulds), (a) "At the Theatre"; (b) "Evening in the Forest"; (c) "Fiddler's Fancy."
- 9.0 : Evening weather forecast and announcements.
 9.2 : Soprano—Miss Marjorie Fair, "Serenata" (Tosti).
 9.6 : Baritone—Mr. A. G. McPhail, "The Trumpeter" (Dix).
 9.10 : Tango—Orchestral Octet, "Argentina" (Ancliffe); Oriental, "Chang."
 9.17 : Humour—Mr. Trevor Binns, "Taking an Elevator" (Anonymous).
 9.21 : Contralto—Miss Evelyn Robinson, "Last Night" (Kjerulf).
 9.25 : Waltz—Orchestral Octet, "The Sphinx" (Popy); Ballet, "Reconciliation" (Drigo).
 9.31 : "Gramophone Lecture-Recital" by a Commentator.
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, APRIL 8.

- 3.0 : Chimes. 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—Marek Weber and His Orchestra, "Cavalleria Rusticana" Selection (Mascagni).
 Vienna Philharmonic Orchestra, "Hungarian Dance No. 3" (Brahms).
 Trio—Fritz and Hugo Kreisler and Michael Rauchausen, "Marche Miniature Viennois" (Kreisler).
 Berlin Philharmonic Orchestra, "Tannhauser" March (Wagner).
 De Groot and His Orchestra, "I Love You" (Grieg).
 Berlin Philharmonic Orchestra, "Hungarian March—The Damnation of Faust" (Berlioz).
 Trio—Fritz and Hugo Kreisler and Michael Rauchausen, "Syncopation" (Kreisler).
 Berlin State Orchestra, "Oberon" Overture (Weber).
 Vienna Philharmonic Orchestra, "Hungarian Dance No. 1" (Brahms).
 Band of H.M. Coldstream Guards, "Suite Francaise" (Foulds).
 De Groot and His Orchestra, "Romance" (Rubenstein).
 Marek Weber and His Orchestra, "Lehariana" (Geiger).
- 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Specially-recorded overseas programme:
 Dr. Eugene Ormandy and His Salon Orchestra.
 The International Singers.
 The Ambassadors of Melody Land.
 Abroad with the Lockharts.
 Talk—Mr. Charles E. Wheeler, "Round the South Pacific."
 Hy-Wide and Handsome.
 International dance programme.
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, APRIL 8.

- 11.30 a.m.: Results of New Zealand Metropolitan Trotting Club's meeting at Addington, interspersed with musical recordings.

- 5.0 : Children's session, "Uncle John."
 6.0 : Dinner music session:
 Great Symphony Orchestra, "Countess Mariza" Medley (Kalman).
 Paul Godwin Quartet, "Octobre" (Tchaikowsky); "Serenade des Mandolines" (Desormes).
 Paul Godwin Orchestra, "The Bird-Seller" (Zeller).
 Paul Godwin Quartet, "Un Peu d'Amour" (Silesu); "Serenata d'Amalfi" (Bece).
 Polydor Orchestra, "Aus Winkeln und Gassen" (Hannemann).
 Paul Godwin Quartet, "Intermezzo Russe" (Franke).
 Paul Godwin Trio, "La Lettre de Manon" (Gillet).
 Ilja Livschakoff Orchestra, "The Land of Smiles" (Lehar).
 7.0 : News session.
 7.30 : Addington stock market reports.
 8.0 : Chimes. Overture—Berlin State Opera Orchestra, "Die Fledermaus."
 8.8 : Baritone—Mr. Leslie N. Fleming, (a) "Mother England's Brewing" (Coates), (b) "The Old Toby Jug" (from "Old Furniture").
 8.14 : Banjo duo—Messrs. J. N. Havord and M. George, Mrs. Louis Bloy at the piano—"Tickling the Banjo" (arr. Bloy).
 8.18 : Selections—Studio Octet (conductor, Mr. Harold Beck), (a) "Albanian March" (Hall), (b) "Romantic Overture" (Keier Beler).
 8.27 : Sketch—The Mascots, "Lest We Forget" (Anon.).
 8.37 : Selections—Studio Octet, (a) "Norwegian Dance" (arr. Carse), (b) "Coronach" (Barratt), (c) "Minuetina" (Byford).
 8.45 : Mezzo-soprano—Miss Agnes Cunningham (with orchestral accompaniment), (a) "Absent" (Metcalfe), (b) "Somewhere a Voice is Calling" (Tate), (c) "Fairy Pipers" (Brewer), (d) "Home, Sweet Home" (Bishop).
 8.56 : Zither—Karl Puhlinger, (a) "Swiss Babies" (Chlumsky), (b) "Cheer Up" (Ziehrer).
 9.4 : Weather forecast and station notices.
 9.6 : Instrumental—Studio Octet, musical comedy selections, "The Country Girl" (Monckton).
 9.20 : Baritone—Mr. Leslie N. Fleming, (a) "Good-day, Suzon" (Pessard); (b) "A Dinder Courtship" (Coates).
 9.26 : Banjo duo—Messrs. J. N. Havord and M. George, Mrs. Louis Bloy at the piano—(a) "Following You" (arr. Bloy), (b) "Stein Song" (Colcord, re-arranged Bloy).
 9.33 : Sketch—The Mascots, "A Night of Surprises" (Anon.).
 9.45 : Accordion and banjo—M. Vola, "La Java de Doudoune" (Padilla).
 9.48 : Male chorus—Jolly Old Fellows, "Ragtime Memories."
 9.54 : Suite—Studio Octet, "Three Dale Dances" (Wood).
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, APRIL 8.

- 3.0 : Selected recordings.
 3.15 : Talk—"The Dining Table and Table Service." Arranged by the Home Science Extension Service of Otago University.
 5.0 : Children's hour, conducted by "Big Brother Bill" and "Wendy."
 6.0 : Dinner music session.
 London Symphony Orchestra, "Czar Sultan" Suite (Rimsky-Korsakov).
 International Concert Orchestra, "Waltz Dream" (Strauss).
 De Groot and His Orchestra, "Louise" Selection (Charpentier).
 New Light Symphony Orchestra, "Peer Gynt Suite" (Grieg): (1) "Ingrid's Lament; (2) Arabian Dance, 'Prelude in G Minor' (Rachmaninoff). "Peer Gynt Suite" (Grieg): (1) Return of Peer Gynt; (2) Solveig's Song, "Prelude in C Sharp Minor" (Rachmaninoff).
 De Groot and His Orchestra, "Samson and Delilah" (Saint-Saens).
 Philadelphia Symphony Orchestra, "Danse Orientale" (Glazounov).
 International Concert Orchestra, "Sari" (Kalman).
 Philadelphia Symphony Orchestra, "March of the Caucasian Chief."
 7.0 : News session.
 7.15 : Talk—Mr. James Begg, "Handling of Stock for the Freezing Works."
 8.0 : Chimes. Overture—Mengelberg's Concertgebouw Orchestra, "Oberon."
 8.15 : Baritone—Mr. Arthur Macdonald, (a) "I'll Sing Three Songs of Araby" (Clay); (b) "Song of the Vagabond" (from "The Vagabond King") (Friml); (c) "Lend Me Your Aid" (from "Queen of Sheba").
 8.22 : Instrumental Trio—"Allegro in D Minor" (Arensky).
 8.31 : Coloratura soprano—Margherita Zelanda, (a) "Charmant Oiseau" (from "Perle de Bresil"), (David); (b) "The Green Isle of Erin" (Ireland); (c) "Dove l'Indiana Bruna" (from "Lakme").
 8.46 : Piano—Mr. Max Scherek, (a) "Waltz in D," (b) "Nocturne in D Flat."
 8.51 : Contralto—Miss Mary Pratt, (a) "Sappho's Farewell" (Gounod); (b) "Here, in the Quiet Hills" (Carne); (c) "Nocturne" (Jarman).
 9.0 : Weather report and station notices.
 9.2 : Instrumental Trio—"Trio in E Flat" (Hummel).
 9.15 : Coloratura soprano—Margherita Zelanda, (a) "The Gipsy and the Bird" (Sir Jules Benedict); (b) Rectitative—"Quella Fonte," and Aria, "Regnava Nel Silenzio" (from "Lucia di Lammermoor," Donizetti); (c) "The Wind" (Spross).
 9.30 : Dance session.
 Foxtrot—Lloyd Huntley and His Isle o' Blues Orchestra, "Moaning for You" (Goulding).
 Roger Wolfe Kahn and His Orchestra, "Without a Song" (Rose).
 Colonial Club Orchestra, "It's You I Love" (Davis).
 Lloyd Huntley and His Isle o' Blues Orchestra, "Alone in the Rain" (Goulding).
 Colonial Club Orchestra, "Why?" (Davis).
 9.45 : Song—Marie Tiffany, "Ma Curly-Headed Baby" (Clutsam).
 Foxtrots—The A. and P. Gypsies, "South Sea Rose" (Gilbert).

- Roger Wolfe Kahn and His Orchestra, "Great Day" (Rose).
 The A. and P. Gypsies, "Only the Girl" (Ruby).
 9.57 : Waltz—Hal Kemp and His Orchestra, "Romance" (Leslie).
 Foxtrots—Herman Waldman and His Orchestra, "Marbles" (Canicas).
 Hal Kemp and His Orchestra, "Navy Blues" (Turk).
 Benny Meroff and His Orchestra, "The Talk of the Town."
 Colonial Club Orchestra, "March of the Old Guard" (Grey).
 10.12 : Vocal—Frances Williams, "Bigger and Better than Ever" (Friend).
 Foxtrots—Colonial Club Orchestra, "Sweetheart, We Need Each Other."
 Herman Waldman and His Orchestra, "Waiting" (Gardner).
 Ben Bernie and His Orchestra, "What Is This Thing Called Love?" (Cole-Porter).
 10.24 : Waltz—Regent Club Orchestra, "You're Always in My Arms."
 Foxtrots—Ray Miller and His Orchestra, "Funny, Dear, What Love Can Do" (Bennett).
 Benny Meroff and His Orchestra, "Happy Days are Here Again" (Ager).
 Ray Miller and His Orchestra, "Finesse" (Maltin Doll).
 10.36 : Song—Marie Tiffany and Male Trio, "Carry Me Back to Old Virginny."
 Foxtrots—Colonial Club Orchestra, "Charming" (Grey).
 Ben Bernie and His Orchestra, "She's Such a Comfort to Me."
 10.48 : Waltz—Lloyd Huntley and His Isle o' Blues Orchestra, "Molly."
 Foxtrots—Ray Miller and His Orchestra, "My Victory" (Miller).
 Al Goodman and His Orchestra, "M-a-r-y" (Gordon).
 Ray Miller and His Orchestra, "Blue Butterfly" (Tucker).
 Al Goodman and His Orchestra, "Lonesome Little Doll."
 11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, APRIL 8.

- 7.30 : News, markets, and information.
 8.30 : Children's session.
 8.0 : Studio concert.

Thursday, April 9

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

- 3.0 : Selected recordings.
 3.15 : Talk—"New Ways of Using Apples." Prepared by the Home Science Extension Service of Otago University.
 5.0 : Children's session, conducted by "Peter Pan."
 6.0 : Dinner music session.
 Dajos Bela Orchestra, "Gypsy Love" (Lehar).
 Edith Lorand Orchestra, "La Boheme" (Puccini).
 New Light Symphony Orchestra, "The Waltzing Doll" (Poldini).
 Dajos Bela Orchestra, "Mon Reve" (Waldteufel).
 Organ duet—Mr. and Mrs. Jesse Crawford, "The Moonlight Reminds Me of You" (Kahn).
 Dajos Bela Orchestra, "I Love You" (Waldteufel).
 National Symphony Orchestra, "The Barber of Seville" (Rossini).
 Dajos Bela Orchestra, "You and You" (Strauss).
 Mandoline Concert Society, "Echoes of the Volga" (Bitter).
 New Light Symphony Orchestra, "At Dawning" (Cadman).
 Band of H.M. Coldstream Guards, "Les Cloches De Corneville."
 Dajos Bela Orchestra, "Vienna Bon Bons" (Strauss).
 7.0 : News and market reports.
 7.40 : Talk—"Bedsteads and Bedding," under the auspices of New Zealand Manufacturers' Association.
 8.0 : Chimes. Presentation of Studio programme by the Auckland Savage Club Orchestra, under the Conductorship of Mr. Archie Don.
 Overture—The Orchestra, "Oberon" (Weber).
 8.12 : Baritone—Savage Bernard Carter with orchestral accompaniment, "Toreador Song" (from "Carmen") (Bizet).
 8.16 : The Orchestra, (a) "Hungarian Dance" (Brahms); (b) "Solveig's Song" (Grieg).
 8.23 : Male choir—Ural Cossacks, "Die Huld Des Freidens" (Fatejeff).
 8.31 : Orchestral—The Orchestra, "Entry of the Boyards" (Halvorsen).
 8.36 : Humorous—Savage J. Hogben, "Minta Billa" (original).
 8.42 : Orchestra—"Plantation Songs" (Clutsam).
 8.52 : Descriptive Ballad—Francis Russell and Stuart Hibberd, "The Death of Nelson" (Braham).
 8.56 : Instrumental Quartet—Members of the Orchestra, "Drink To Me Only."
 9.0 : Evening weather forecast and announcements.
 9.2 : The Orchestra, "Shepherd's Hey" (Grainger).
 9.7 : Baritone—Savage Bernard Carter, (a) "The Victor" (Sanderson); (b) "Winnin' Thro'" (Hope).
 9.13 : Cello—Gaspar Cassado, "Mazurka" (Popper).
 9.17 : The Orchestra—March from "Aida" (Verdi).
 9.24 : Humour—Savage W. H. V. Taine, "What Are Savages?" (original).
 9.30 : Novelty—Winkler Trio, "Bavarian Jokes" (Winkler).
 9.36 : The Orchestra, "Petite Suite De Concert" (Coleridge-Taylor).
 9.44 : Male Choir—Ural Cossacks, "Der Singen Wir" (Livowski).
 9.48 : The Orchestra—(a) "Waltz Dream" (Strauss); (b) "Rosamund Overture" (Schubert).
 10.0 : God save the King.

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

- 3.0 : Chimes. Selected gramophone recordings.
 3.15 : Lecturette—Miss I. F. Meadows, "New Ways of Using Apples," prepared by the Home Science Extension Department of 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:

Boston Symphony Orchestra, "Frühlingstimmen" (Johann Strauss).
Organ—Jesse Crawford, "Serenade" (Romborg).
National Military Band, "Ben Hur" (Byng).
A. and P. Gipsies, (a) "White Acacia," (b) "Petite Causerie" (Stone).
Vienna Philharmonic Orchestra, "Donfschwalben" (Strauss).
International Novelty Quartet, "Teddy Bears' Picnic" (Bratton).
Jack Hylton and His Orchestra, "Steppin' Out" (Vauchant).
New Mayfair Orchestra, "Wake Up and Dream" (Porter).
Organ—Jesse Crawford, "Indian Love Call" (Friml).
International Novelty Orchestra, (a) "To Die Dreaming," (b) "Four Little Farms."

A. and P. Gipsies, "Herbertiana" (arr. Stone).

Jack Hylton's Orchestra, "Old-Time Songs."

International Novelty Quartet, "The Skaters" (Waldteufel).

Jack Hylton's Orchestra, "Lonesome Little Doll" (Cowan-Boutelje).

7.0 : News session, market reports and sports results.

7.40: Lecturette—Mr. W. H. Priestly, "Modern Ballroom Dancing."

8.0 : Chimes. Presentation of concert by "The Paua Club."

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, APRIL 2.

3.0 : Gramophone recital.

3.15: Lecturette—"New Ways of Using Apples" arranged by the Home Science Extension Service Otago University.

5.0 : Children's hour.

6.0 : Dinner music session.

Royal Opera Orchestra, "Faust Ballet Music 1st. to 4th. Movements."
San Francisco Symphony Orchestra, "Rosamunde Entr'acte."
National Symphony Orchestra, "Stradella" Overture (Flotow).
Organ—Reginald Foort, "The Riff Song" (Romborg).
Philadelphia Symphony Orchestra, "Samson and Delilah" Bacchanale.
Victor Olof Sextet, "Cherry Ripe" (Scott).
Royal Opera Orchestra, "Faust" Ballet Music, 5th to 7th Movements.
Organ—Reginald Foort, "The Desert Song" (Romborg).
Philadelphia Symphony Orchestra, "Damnation of Faust" (Berlioz).
National Military Band, "Ballet Egyptian" (Luigini).
National Symphony Orchestra, "Norma" Overture (Bellini).

7.0 : News session.

7.30: Talk to Primary Producers—"Manufacture of Superphosphate," prepared by Mr. H. D. Kerr, under the auspices of 4YA Primary Productions Committee.

8.0 : Chimes.

Overture—Cordoba Philharmonic Orchestra, "Carnival" (Lucena).

8.4 : Vocal—Salon Quartet, "Early One Morning" (Boughton).

Tenor—Mr. H. J. Francis, "Lend Me Your Aid" (from "Irene").

8.11: Instrumental selections—Studio Octet, (Conductor Harold Beck), (a) "March" (from "Nutcracker Suite") (Tschalkowsky); (b) "Prometheus Overture" (Beethoven).

8.19: Soprano and contralto—Salona Duo, "Hear Me Norma" (from "Norma") (Bellini).

8.22: Pianoforte—Mrs. Madeline Pooke, "Valse Op. 70" (Chopin).

8.27: Baritone—Mr. Clive Hindle, "The Song of Bacchus" (from "Hamlet").

8.31: Instrumental Quintet—The Studio Players, "Meditation."

8.36: Contralto—Miss Dulcie Mitchell, Aria, "If Thou Sleepest" (from "Romeo and Juliette") (Vaccari).

Tenor—Mr. H. J. Francis, (a) "I Wept Beloved" (Heine); (b) "Serenade" (Schubert).

8.44: Selection—Studio Octet, "Madame Butterfly" (Puccini).

8.52: Soprano—Miss Corrie Aslin, (a) "Now Sleeps the Crimson Petal" (Quilter); (b) "A Summer Song" (Hartog).

Vocal duet—Salon Male Duo, "Be Mine the Delight" (from "Faust").

9.3 : Weather forecast and station notices.

9.5 : Instrumental—Studio Octet, (a) "Polka" (Bantock); (b) "Prize Song" (Wagner); (c) "Dance Orientale" (Lubomirsky).

9.16: Baritone—Mr. Clive Hindle, "To the Forest" (Tschalkowsky).

Contralto—Miss Dulcie Mitchell, (a) "Trees" (Rasbach); (b) "Shade" (Cargill).

9.22: Piano—Mrs. Madeline Pooke, (a) "Gaité De Coeur" (Sydney Smith); (b) "Valse Brillante" (Sydney Smith).

9.27: Vocal—Salon Quartet—"Land of Hope and Glory" (Elgar arr. Fagge).

9.30: Dance programme.

Foxtrots—Ben Selvin and His Orchestra, "Around the Corner" (Kas-sel); "You Can't Be Unhappy If You Sing" (Barry).

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

Stellar Dance Band, "Minnie's Yoo-Hoo!" (W. Stalling).

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 Duettists, "By the Waters of Killarney."

9.54: Foxtrots—Ipana Troubadours, "Cooking Breakfast For The One I Love" (Rose).

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" (Ahlert).

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

Foxtrots—Paul Specht and His Orchestra, "Into My Heart" (Ahlert).
The Four Bright Sparks, "High Society Blues" (McCarthy).

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

10.18: Foxtrots—The Columbia Photo Players, "The 'Free 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 Duettists, "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" (Lumsdaine).

Debroy Somers Band, "Figaro" (Mitchell).

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

11.0 : God save the King.

Friday, April 10

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

3.0 : Selected recordings.

3.15: Literary selection.

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

6.0 : Dinner music session.

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

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

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

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

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

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

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

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

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

Jack Padbury's Cosmo Club Six, "Enchantment" Tango.

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

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

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

7.0 : News and market reports.

7.40: "A Talk to Pig Farmers," by Mr. Fred Discombe.

8.0 : Chimes. Overture—Marek Weber's Orchestra, "Vienna by Night."

8.9 : Soprano—Miss D. Lovelace Milne, (a) "Steal Away" (Negro spiritual) (arr. Burleigh); (b) "Tis, O Lord" (Negro spiritual).

8.15: Novelty instrumental—The Civic Novelty Trio, (a) "Chromatic" (Green); (b) "Softly Awakes My Heart" (Saint-Saens); (c) "With You" (Berlin).

8.30: Elocution—Mr. J. M. Clark, "Mark Anthony's Oration Over the Body of Caesar" (from "Julius Caesar") (Shakespeare).

8.37: Chorus—The Sieber Choir, "Faust Waltz" (Gounod).

8.41: Piano—Mr. Cyril Towsey, (a) "Prelude in D Flat" (the "Raindrop" Prelude) (Chopin); (b) "Ballade in A" (Chopin).

8.50: Bass-baritone—Mr. Victor Baxter, (a) "Fill a Glass with Golden Wine" (Quilter); (b) "Two Grenadiers" (Schumann).

8.56: Violin—Erica Morini, (a) "Minuet" (Mozart); (b) "Gavotte" (Lully).

9.2 : Evening weather forecast and announcements.

9.4 : Balalaika—Mr. Simon Philipoff, (a) "Caprice Viennois" (Kreisler); (b) "Caprice" (Philipoff); (c) "Variation from Corelli."

9.14: Soprano—Miss D. Lovelace Milne, (a) "Robin Adair" (Burns); (b) "The Last Rose of Summer" (Moore).

9.21: Novelty instrumental—The Civic Novelty Trio, (a) "Lonesome Little Doll" (Boutelje); (b) "Log Cabin Blues" (Green); (c) "Latest Hit."

9.26: Elocution—Mr. J. M. Clark, "The Story of the Old Ram" (Mark Twain).

9.43: Accordeon—Medard Ferrero, (a) "Torrent" (Capitani); (b) "A Rare Bird" (Damarie).

9.49: Bass-baritone—Mr. Victor Baxter, (a) "Sunday" (Brahms); (b) "The Song of the Volga Boatmen" (Chaliapin-Koenemann).

9.55: Chorus—The Sieber Choir, "The Mill in the Black Forest" (Ellenberg).

9.59: Polydor Brass Band, "Petersburger March."

10.1 : God save the King.

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

3.0 : Chimes. 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.

Finn's Orchestra, "Gaiety Echoes" (Caryll-Monckton).

Sandler's Orchestra, "Las Lagarteranas" (Guerrero and Foulkes).

Regal Salon Orchestra, "Memories of Beethoven."

J. H. Squire's Celeste Octet, "Everybody's Melodies" (arr. Squire).

Organ—John Hassel, "By the Waters of Minnetonka" (Lleurance).

Sandler's Orchestra, "Raphaellito" (Guerrero and Foulkes).

Dinicu and His Orchestra, "Adoration" Tango (Bianco).

Regal Cinema Orchestra, "Broadway Selection" (Gottler).

Romani and Italian Orchestra, "Old Comrades March" (Telke).

Berlin State Orchestra, "Die Fledermaus" (Strauss).

Nulla Romani's Orchestra, "Canto Al Inverno."

Russian Novelty Orchestra, "Dance Mio" (Bacardi).

- 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. A. E. Wilson, "Tourist and Holiday Resorts."
 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 A. P. Truda), "Mayday."
 8.9 : Soprano—Mrs. A. P. Truda, with orchestral accompaniment, (a) "Waiata Maori" (Hill); (b) "Les Cloches" (Hurlstone).
 8.15 : Tenor—Mr. O. McGuinness, with orchestral accompaniment, (a) "Come Into the Garden, Maud" (Balfie); (b) "Yes! Let Me like a Soldier Fall" (Wallace).
 8.21 : Novelty Duo—Dorrie and Laurie, (a) "Casey Jones" (Weston and Lee); (b) "Looks" (Nierry).
 8.29 : Baritone—Mr. Claude Moss, with violin obligato, "Route Marchin."
 8.33 : Selection—Orchestra, "Gipsy Princess" (Kalman).
 8.41 : Song medley for soprano and tenor—Mrs. A. P. Truda and Mr. O. McGuinness, with orchestral accompaniment, "Irish Medley."
 8.45 : Baritone—Mr. Claude Moss, with violin obligato, (a) "Boat Song" (Ware); (b) "A Brown Bird Singing" (Haydn Wood).
 8.50 : Valse—Orchestra, "Pluie D'Or" (Waldteufel).
 9.0 : Weather report and station notices.
 9.2 : Novelty Duo—Dorrie and Laurie, (a) "Mamie Girl" (Jones); (b) "So We Go On" (Weston and Lee).
 9.10 : Tenor—Mr. O. McGuinness, with orchestral accompaniment, "To a Miniature" (Brahe).
 9.14 : Fantasia—Orchestra, (a) "Faust Frivolities" (arr. Black); (b) "La Gazelle" (Bendix).
 9.22 : Soprano—Mrs. A. P. Truda, with orchestral accompaniment, "Serenade in Summer" (Denza).
 9.26 : Foxtrot—Orchestra, "Three Little Words" (Ruby).
 9.32 : Dance programme.
 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 Pt. 2"
 Waltz—Carter's Orchestra, "Wednesday Night Waltz."
 9.44 : Lloyd Huntley and His Isle o' Blues Orchestra, "Lonely" (Grey).
 Ben Bernie and His Orchestra, "I Still Belong To You" (Ellsco).
 Lloyd Huntley and His Isle o' Blues Orchestra, "Gee, But I'd Like To Make You Happy" (Shay).
 9.53 : Vocal—Chester Gaylord, "What's The Use?" (Jones).
 9.56 : Foxtrots—Phil Spitalny's music, "Maybe It's Love" (Mitchell).
 Anglo-Persians, "Siboney" (Morse).
 Tom Clines and His Music, "Why Have You Forgotten Walkiki?"
 Phil Spitalny's music, "Beyond the Blue Horizon" (Robin).
 10.8 : Vocal duet—Cotton and Morpheus, "Never Swat a Fly" (De Sylva).
 10.11 : 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).
 10.20 : Waltzes—Bob Haring and His Orchestra, "One Love" Koehler).
 Castlewood Marimba Band, "Song of the Islands" (King).
 10.26 : 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."
 10.38 : Vocal—Chester Gaylord, "I'll Be Blue Just Thinking of You."
 10.41 : Foxtrots—Tom Clines and His Music, "Passing Time With Me" (Hill).
 Meyer Davis' Hotel Astor Orchestra, "It Seems to be Spring."
 Tom Clines and His Music, "What's The Use of Living Without Love" (McCarthy).
 Waltz—Carter's Orchestra, "The Waltz of the Hills" (Fields).
 10.53 : 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).
 11.2 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, APRIL 10.

- 3.0 : Gramophone recital.
 4.25 : Sports results.
 5.0 : Children's hour, conducted by "Chuckie."
 6.0 : Dinner music session.
 The Paul Godwin Orchestra, "Potpourri of German Folk Songs" (arr. Hannemann); "The Girl of the Black Forest" (Jessell).
 Mandolin and Lute Orchestra, "Minuet in G" (Beethoven).
 Paul Godwin Orchestra, "Suite Orientale" (Popy): (1) Les Bajaderes, (2) Au Bord du Gange, (3) Les Almes, (4) Patronille.
 The State Opera Orchestra, Berlin, "La Muette de Portici" (Auber).
 Mandoline and Lute Orchestra, "Norwegian Dance" (Grieg).
 The State Opera Orchestra, Berlin, "Hungarian March in C Minor."
 Paul Godwin Dance Orchestra, "From Ear to Ear" (Morena).
 7.0 : News session.
 7.30 : Talk—Messrs. J. Cossgrove and W. Melbourne, "Radio Service."
 8.0 : Chimes. Overture—Bournemouth Municipal Orchestra, "Crown Diamonds" (Auber).
 8.9 : Vocal—Dulcet Quartet, "To Daffodils" (Quilter).
 Contralto—Miss Nellie Lowe, (a) "Buy My Strawberries" (Oliver); (b) "Dream Canoe" (Squire).
 8.16 : Piano—Miss Aileen Warren, "Nocturne" (Besly).
 8.19 : Tenor—Mr. Jas. Shaw, "I Know of Two Bright Eyes" (Clutsam).
 8.22 : Lute and mandoline—Professor and Maria Calace, (a) "Tarantella;" (b) "Reverence Gavotte" (Calace).

- 8.28 : Baritone—Mr. A. G. Thompson, (a) "Winnin' Thro'" (Hope); (b) "Standing By" (Pawley).
 8.32 : Humour—Mr. George Titchener, "Gone Afloat" (Handley).
 8.36 : Instrumental—Christchurch Broadcasting Trio, (a) "Scherzo-Presto" (Reissiger); (b) "Song of the Mountains" (Grieg); (c) "Spanish Dance, No. 4" (Moszkowski).
 8.47 : Soprano—Mrs. W. B. Harris, "A Little Coon's Prayer" (Hope).
 8.50 : Jazz songs with improvised accompaniments—Messrs. Albert Carlisle and Les Grummitt, (a) "Happy Days and Lonely Nights" (Ager); (b) "A Bundle of Old Love Letters" (Wayne).
 9.0 : Weather forecast and station notices.
 9.2 : Paul Godwin's Orchestra, "Parade of the Tin Soldiers" (Jessel).
 9.6 : Contralto—Miss Nellie Lowe, (a) "Ships that Pass in the Night" (Stephenson); (b) "Beloved, it is Morn" (Aylward).
 9.10 : Pianoforte—Miss Aileen Warren, "Humoresques, Nos. 1 and 2" (Grieg).
 9.15 : Tenor—Mr. Jas. Shaw, "Sally in Our Alley" (Carey).
 Soprano—Mrs. W. B. Harris, "Cheer Up, Do" (Coverley).
 9.22 : Paul Godwin's Orchestra, "Brownie's Parade" (Noack).
 9.25 : Humour—Mr. George Titchener, "Sarsprella" (The Siren of Spain).
 9.38 : Instrumental—Broadcasting Trio, (a) "Alla Danza" (Haden); (b) "Farewell to Cucullain" (Kreisler); (c) "Serenade" (Herbert).
 9.43 : Contralto and tenor—Miss Nellie Lowe and Mr. Jas. Shaw, "Carmena." Vocal—Dulcet Quartet, "Curfew" (Thompson).
 9.48 : Jazz songs to improvised accompaniment—Messrs. Albert Carlisle and Les Grummitt, (a) "Should I?" (Ager); (b) "My Mother's Eyes."
 9.58 : March—Band of Salvation Army, "The Scout Leader" (Kirk).
 God save the King.

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

- 3.0 : Selected recordings.
 5.0 : Children's hour, conducted by "Aunt Sheila."
 6.0 : Dinner music session.
 Great Symphony Orchestra, "A Rendezvous with Lehar" (arr. Hruby).
 Marek Weber and His Adlon Orchestra, "Lettre a Armand."
 Paul Godwin Orchestra, "Serenata" (Clement); "A Polo March."
 Efim 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); "Marionette's Wedding Glide" (Rathke); "Sidelights Medley" (Morena).
 Efim Schachmeister Orchestra, "White Acacia" (Traditional).
 Philharmonic Orchestra, "Prelude to Act 3—Lohengrin" (Wagner).
 7.0 : News session.
 8.0 : Chimes. Overture—Jack Hylton and His Orchestra, "Memories of Paris" (Padilla).
 8.9 : Lecture-recital—"Favourite National Songs; Their History and Origin," by Mr. John Leech, assisted by the following artists:—
 Miss Valda G. McCurdy Soprano
 Miss Noni Davidson Mezzo-soprano
 Miss Maude Kenward Mezzo-soprano
 Miss Margaret Howden Contralto
 Mrs. A. G. Pointon Dramatic Soprano
 Mr. William Ruffell Baritone
 Mr. T. D. White Bass
 Mr. John Leech Tenor
 Miss Eva Judd Violiniste
 Miss Muriel Caddie Pianiste
 National songs of the following countries:—
 England—"The Better Land" (Bennett), "Hearts of Oak" (Dr. Boyce), "Scenes that are Brightest" (Wallace), "British Grenadiers" (Howal), "Rule Britannia" (Arne), "Home, Sweet Home" (Bishop).
 Ireland—"Londonderry Air" (Anon.), "The Wearing of the Green" (Traditional), "Minstrel Boy" (Moore).
 Scotland—"Scots Wha Hae," "Auld Lang Syne" (Traditional).
 Wales—"All Thro' the Night," "Men of Harlech" (Traditional).
 France—"Marseillaise" (De Lisle), "Malbrook to War" (Origin).
 Belgium—"La Brabaconne" (Canparbut).
 Germany—"Watch on the Rhine" (Wilhelm).
 9.2 : Weather report and station notices.
 9.4 : Polydor Military Band, "d'Banda Kommt" (Schild).
 9.7 : Holland—"Let All with Dutch Blood in Their Veins" (Smits).
 Austria—"God Preserve Our Noble Empire" (Haydn).
 Italy—"Garibaldi's War Song" (Clirerie).
 Spain—"Rilgo's Hymn" (Traditional).
 Norway—"Songs of Norway" (Blom).
 Russia—"Russian Anthem" (Livoff).
 Band—Polydor Military Band, "Castaldo Marsch" (Novacek).
 Egypt—"National Aids" (Traditional).
 Japan—"Kimi-Ga-Yo-Wa" (Hiromone).
 America—"Star-spangled Banner" (Smith).
 Canada—"Maple Leaf" (Mines).
 Hebrew—"Then Did Moses Sing" (Ancient Melody) (Traditional).
 New Zealand—"God Defend New Zealand" (Bracken).
 10.1 : God save the King.

Saturday, April 11

IYA, AUCKLAND (900 KILOCYCLES)—SATURDAY, APRIL 11.

- 12.0 : Relay of results of first day of Avondale Jockey Club's Autumn Meeting.
 5.0 : Children's session, conducted by "Cinderella."

- 6.0 :** Dinner music session.
 Edison Bell Symphony Orchestra, Paris, "Ballet Egyptien" (Lalini).
 Marcu's Roumanian Orchestra, "It is Written on Your Lips."
 Edison Bell Symphony Orchestra, Paris, "Manon" (Massenet).
 The Scala Trio, "Après un Reve" (Faure).
 Edison Bell Symphony Orchestra, Paris, "Carmen" Selection (Bizet).
 Band of H.M. Scots Guards, "The Grasshoppers' Dance" (Bucalossi).
 Edison Bell Symphony Orchestra, Paris, "Light Cavalry" Overture.
 Scala Salon Orchestra, "Say it with Songs" Selection.
 The Scala Trio, "Elegie" (Massenet).
 Marcu's Roumanian Orchestra, "Two Red Roses, a Gentle Kiss."
 Royal Opera Orchestra, "Naila Waltz" (Delibes-Doppler).
- 7.0 :** News and market reports.
- 7.40 :** Talk by Mr. A. E. McMahon, "Chrysanthemums."
- 8.0 :** Chimes. Relay from the Auckland Town Hall of a Concert by the Auckland Municipal Choir, under the conductorship of Mr. Maughan Barnett.
- 10.0 :** Programme of dance music.
 Foxtrots—George Posnack and Orchestra, "Punch and Judy."
 Zenith Knights, "Eyes of Blue" (Albin-Costello).
 Carl Fenton and His Orchestra, "What Is This Thing Called Love?" (Cole).
- Waltz—Cova Cavaliers, "Louisiana Moon" (Walter Donaldson).
- 10.12 :** Foxtrots—New Yorkers, "If I Were King" (Robin).
 Zenith Knights, "Get Yourself a Sweetie" (Meskill).
 Carl Fenton and His Orchestra, "The Stein Song" (Fenstad).
 Jack Montrose and Orchestra, "Valparaiso" (Allen).
- 10.24 :** Vocal—Tommy Weir, "That's When I Learned to Love You."
- 10.27 :** Foxtrots—New Yorkers, "Happy Days Are Here Again" (Ager);
 "Kicking a Hole in the Sky" (Rose); "Fireworks."
- 10.36 :** Waltz—Cova Cavaliers, "Sweet Kentucky Nights" (Herscher).
 Foxtrots—Carl Fenton and His Orchestra, "Won't Cha" (Razaf);
 "That's When I Learned to Love You" (Costello).
- 10.45 :** Vocal—Tommy Weir, "There's Danger in Your Eyes, Cherie."
- 10.48 :** Foxtrots—New Yorkers, "Let Me Sing and I'm Happy" (Irving).
 Carl Fenton and His Orchestra, "Night Time is Love Time."
 Zenith Knights, "Hanging on a Garden Gate" (Florito).
 Carl Fenton and His Orchestra, "If He Care" (Grey).
- 11.0 :** God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, APRIL 11.

- 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.
 Charles Ancilffe and His Orchestra, "Ancilffe Waltzes" (Ancilffe).
 J. H. Squire's Celeste Octet, "Twilight on the Waters" (Squire).
 Gil Dech Ensemble, "Italian Nights" (Roberts).
 Regal Cinema Orchestra, "Sally" Selection (Burke).
 Organ—Quentin Maclean, "Lily of Laguna" (Stuart).
 J. H. Squire's Celeste Octet, "Minuet Sicillienne" (Squire and Hart).
 Band of H.M. Grenadier Guards, "Country Dance" (German).
 Debroy Somers' Band, "Mister Cinders" Selection (Ellis and Myers).
 J. H. Squire's Celeste Octet, "The Piccaninies' Picnic" (Squire).
 Organ—Quentin Maclean, "Little Dolly Daydream" (Stuart).
 Albert W. Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures" (Ketelbey).
 J. H. Squire's Celeste Octet, "Minuet in D" (Mozart).
 Albert W. Ketelbey's Concert Orchestra, "Wedgwood Blue."
 Gil Dech Ensemble, "Valse Parisienne" (Roberts—arr. Barry).
- 7.0 :** News session, market reports and sports results.
- 7.40 :** Lecturette—Mr. W. M. Jackson, "Gladioli and Gardening Hints."
- 8.0 :** Chimes. "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—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Around the Map" (Finck); suite, "Suite Melodique" (Friml).
- 9.18 :** Contralto—Mrs. Ray Kemp, "The Curtain Falls" (d'Hardelot).
- 9.22 :** Trio—Grinning Schrammel Trio, (a) "At the Worther Lake" (Koschat); (b) "Swiss Children" (Chlumski).
- 9.28 :** Novelty selection—Salon Orchestra, "Reminiscences of All Nations."
- 9.36 :** Chorus—Rotorua Maori Choir, "Nga Hiti" (Traditional).
- 9.39 :** Xylophone—Mr. L. W. Probert and Salon Orchestra, "La Pluie" (Cole).
 Descriptive novelty—"The Clock" (Weller).
- 9.46 :** Contralto—Mrs. Ray Kemp, "Can't Remember" (Goatley).
- 9.50 :** Salon Orchestra, "Latest Dance Novelties."
- 10.0 :** Dance programme.
 Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "How Am I to Know?" (Parker).
 Arcadians Dance Orchestra, "Pepita" (Mascheroni).
 Bernie Cummins and His New Yorker Hotel Orchestra,
 "Livin' in the Sunlight—Lovin' in the Moonlight."
 The Rhythmic Eight, "Figaro" (Mitchell).
- 10.12 :** Waltz—Jean Goldkette and His Orchestra, "Can You Blame Me?"
 Foxtrots—Henry Busse and His Orchestra, "I Came to You."
 Gus Arnheim and His Orchestra, "I'm Feathering a Nest."
- 10.21 :** Vocal—Olga Albani, "It's You I Love" (Davis).

- 10.24 :** Foxtrots—New Mayfair Dance Orchestra, "There's Room in My Heart" (Gibbons); "Cuban Nights" (Salvato); "I'll Be Getting Along" (Gibbons).
 Waltz—Bob Haring and His Orchestra, "By and Bye, Sweetheart."
- 10.36 :** Foxtrots—Nat Shilkret and His Orchestra, "Congratulations."
 New Mayfair Dance Orchestra, "Cuckoo in the Clock."
 George Olsen and His Music, "The Moon is Low" (Freed).
- 10.45 :** Vocal—Grace Hayes, "On the Sunny Side of the Street" (Fields).
- 10.48 :** Foxtrots—The High Hatters, "You Brought a New Kind of Love to Me" (Kahala).
 Nat Shilkret and His Orchestra, "Into My Heart" (Turk).
 Herman Klenin and His Orchestra, "I'm Doing What I'm Doing for Love" (Yellen).
 Nat Shilkret and His Orchestra, "Dark Night" (Grey).
- 11.0 :** God save the King.

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

- 3.0 :** Gramophone recital.
- 4.25 :** Sports results.
- 5.0 :** Children's hour, "Aunt Pat" and "Uncle Charlie."
- 6.0 :** Dinner music session:
 Selection—Edith Lorand's Orchestra, "The Vagabond King" (Friml).
 Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss).
 Selection—Frank Westfield's Orchestra, "Ohu Chin Chow" (Noripn).
 Dajos Bela Orchestra, "O Sole Mio" (arr. Lindeman).
 State Opera Orchestra, Berlin, "Invitation to the Waltz" (Weber).
 Waltzes—Dajos Bela Orchestra, (a) "Oh, Spring, How Fair Thou Art" (Lincke), (b) "Songs d'Amour Apres le Bal" (Czibulka).
 Dajos Bela Orchestra, "Humoresque" (Dvorak).
 Trio—De Groot, Bor, Kilbey, "Paraphrase of Strauss Waltzes."
 Dorsey Bros.' Orchestra, "Was it a Dream?" (Coslow).
 Waltz—Dajos Bela Orchestra, "Faust" (Gounod).
- 7.0 :** News session.
- 7.30 :** Sports results.
- 8.0 :** Chimes. Overture—Marek Weber's Orchestra, "Lehariana" (Geiger).
- 8.9 :** Tenor—Mr. David McGill, (a) "Dolorosa" (Phillips), (b) "The Sweetest Flower that Blows" (Hawley).
- 8.15 :** Instrumental selection—Lyndon P. Christie and his Rhythmic Symphonists, "Rose Marie" (Friml).
- 8.24 :** Songs at piano with banjolele—The Rose and Thistle Duo, (a) "Old Man Sunshine" (Dixon), (b) "Telling it to the Daisies" (Warren).
- 8.30 :** Two pianos—Wilhelm Gross and Walter Kauffmann, (a) "Annen Polka" (Strauss), (b) "Water-Colour Pictures" (Strauss).
- 8.36 :** Humour—Mr. L. T. J. Ryan, "Skirtitis" (Con West).
- 8.41 :** Steel guitars and ukulele—Elaine Moody's Hawaiian Quartet, (a) "I'll Be Blue Thinking of You" (Wendling), (b) "Lazy Louisiana Moon" (Donaldson), (c) "Ro-ro-rolling Along" (Mencher).
- 8.50 :** Instrumental—Lyndon Christie and His Rhythmic Symphonists, (a) "Thistles and Heather" (arr. Frank Black), (b) "Echoes of Ireland" (arr. Arthur Lange), (c) "Il Trovatore" Paraphrase (Verdi).
- 9.2 :** Weather forecast and station notices.
- 9.4 :** Marimba—Green Bros.' Marimba Band, (a) "A Bunch of Roses" (Chapi), (b) "Wedding of the Winds" (Hall).
- 9.10 :** Tenor—Mr. David McGill, (a) "The Roumanian Mountains" (Lohr), (b) "Dancing with Tears in My Eyes" (Burke).
- 9.16 :** Foxtrots—Lyndon P. Christie and His Rhythmic Symphonists, (a) "Alabama Stomp" (Johnston), (b) "Fascinating Vamp."
- 9.22 :** Cabaret songs at piano with banjolele—The Rose and Thistle Duo, (a) "With My Guitar and You" (Harris), (b) "I Get the Blues."
- 9.28 :** Instrumental—Lyndon P. Christie and His Rhythmic Symphonists, "Haydn Wood's Songs" (Haydn Wood).
- 9.34 :** Humour—Mr. L. T. J. Ryan, "More Random Ramblings" (MS.).
- 9.40 :** Steel guitars and ukulele—Elaine Moody's Hawaiian Quartet, (a) "Absence Makes the Heart Grow Fonder" (Warren), (b) "Can This Be Love?" (Jones Parry), (c) "If I Could Be With You."
- 9.46 :** Male trio—The Three Harmonisers, "Rollin' Down the River" (Adams).
- 9.52 :** Instrumental—Lyndon P. Christie and His Rhythmic Symphonists, (a) "Pale Moon" (Logan), (b) "Faust" (Gounod).
- 10.1 :** Dance music session:
 Foxtrots—Jack Hylton and His Orchestra, "The King's Horses."
 Ted Weems and His Orchestra, "My Baby Just Cares for Me" (Kahn).
 Nat Shilkret and His Orchestra, "Dixiana" (Caldwell).
 Ted Weems's Orchestra, "A Girl Friend of a Boy Friend of Mine" (Kahn).
- 10.13 :** Waltz—Nat Shilkret and His Orchestra, "Dancing with Tears in My Eyes" (Dubin).
 Foxtrots—The High-Hatters, "Anchor's Aweigh" (Zimmermann).
 Jack Hylton's Orchestra, "Adeline" (Nicholls).
 The High-Hatters, "The Mug Song" (Gaskill).
- 10.25 :** Vocal—Alleen Stanley, "Swingin' in a Hammock" (Seymour).
- 10.28 :** Foxtrots—Nat Shilkret and His Orchestra, "How are You To-night in Hawaii?" (Leslie).
 Nat Shilkret and His Orchestra, "Mr. and Mrs. Sippi."
 Green Bros.' Marimba Orchestra, "Lo Lo" (Feist).
 Nat Shilkret and His Orchestra, "Why have You Forgotten Waikiki?" (Kahn).
- 10.40 :** Waltz—International Novelty Quartet, "Jolly Fellows" (Vollstedt).
 Foxtrots—Marimba Centro Americana, "Forget You? Never!"
 International Novelty Quartet, "Knocked 'Em in the Old Kent Road" (Ingle).

- 10.49: Vocal—Aileen Stanley, "I Love You So Much" (Kalmar).
 10.52: 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).
 11.2 : God save the King.

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

- 3.0 : Selected recordings.
 5.0 : Children's hour, conducted by "Aunt Anita."
 6.0 : Dinner music session.
 Paul Godwin's Orchestra, "Musical Panorama Medley" (Lincke);
 "Birthday Serenade" (Lincke).
 Paul Godwin's Orchestra, "The Spider" Intermezzo (Klose); "Tone-
 na" (Sjoberg); "Wedding Serenade" (Klose); "Butterfly" Inter-
 mezzo (Schlenker).
 Violin with orchestra—Paul Godwin's Orchestra, "Serenade" (Tosti).
 Paul Godwin's Orchestra, "Gelsa" Medley (Jones); "La Poupee de
 Nuremberg" Overture (Adam).
 Vienna Schrammel Quartet, "Firefly's Appointment" (Siede).
 Paul Godwin's Orchestra, "Medley Memorial of Strauss' Waltzes."
 Vienna Schrammel Quartet, "Serenade" (Heykens).
 7.0 : News session and sports results.
 8.0 : Relay of vaudeville programme from 3YA, Christchurch.
 10.0 : Dance programme.
 Foxtrots—Ben Selvin and His Orchestra, "The Rogue Song."
 Stellar Dance Band, "Harmony Heaven" (Vincent).
 Paul Tremaine and His Orchestra, "There's One More River
 to Cross."
 Waltz—Guy Lombardo and His Royal Canadians, "Lazy Lou'siana
 Moon" (Donaldson).
 10.12: Foxtrots—Rhythmic Troubadours, "Without You, Emaline" (de Rose);
 "You're the Sweetest Girl" (Lombardo).
 Guy Lombardo and His Royal Canadians, "Where the Gol-
 den Daffodils Grow" (Archer).
 10.21: Vocal—Art Leonard, "Ten, Twenty, Thirty Years Ago" (O'Hagan).
 10.24: Foxtrots—Ipana Troubadours, "Blue is the Night" (Fisher).
 Rhythmic Troubadours, "Im in the Market for You."
 Ipana Troubadours, "Whip-poor-will" (de Voll).
 10.33: Waltzes—Stellar Dance Band, "I'll Always be Dreaming of Mary."
 The Columbia Photo Players, "Dream Lover" Waltz.
 Foxtrots—Ben Selvin and His Orchestra, "When I'm Looking at You."
 Rhythmic Troubadours, "My Future Just Passed."
 10.45: Vocal—Art Leonard, "Around the Corner" (Kahn).
 10.48: Foxtrots—Paul Tremaine and His Orchestra, "Swing Low, Sweet
 Chariot" (arr. Paul Tremaine).
 Fred Rich and His Orchestra, "For You" (Roemheld).
 The Columbia Photo Players, "My Love Parade."
 Fred Rich and His Orchestra, "Dream Avenue" (Richman).
 11.0 : God save the King.

Sunday, April 12

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

- 3.0 : Selected recordings.
 3.15: Literary selection and relay of portion of organ recital from the
 Auckland Town Hall by the City Organist, Mr. Maughan Barnett.
 6.0 : Children's song service, conducted by "Uncle Bert."
 6.55: Relay of Divine Service from St. Andrew's Church (Presbyterian).
 Preacher, Rev. Ivo Bertram; Organist and Choirmaster, Dr. Neil
 McDougall.
 8.30 (approx.): Relay of Municipal Band concert from the Auckland Town
 Hall, under the conductorship of Mr. George Buckley.
 March—Band, "Under the Allied Banners" (Ollerenshaw); overture,
 "1812 Solenne" (Tchaikowsky).
 Cornet—Mr. Fred Bowes, "Seventh Air Vari" (De Beriot).
 Selection—Band, "Gems from Famous Operas" (Sullivan).
 Duet, flute and clarinet—Messrs. Hal. C. McLennan and M. J. McGregor.
 "Lo, Here the Gentle Lark" (Bishop).
 Humorous variations—Band, "Three Blind Mice" (Lotter).
 Tone poem—Band, "In the Cloisters" (Torrence).
 Hymn—Band, "Abide With Me" (Hoby).
 March—Band, "The First Division."
 9.30: Programme of selected recordings from the studio.
 10.0 : God save the King.

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

- 3.0 to 4.30: Afternoon session of selected gramophone recordings.
 6.0 : Children's song service, conducted by "Uncle George," assisted by
 the Children's Choir from St. Jude's Anglican Church.
 7.0 : Relay of evening service from Taranaki Street Methodist Church.
 Preacher, Rev. T. R. Richards. Organist and Choirmaster, Mr.
 H. Temple White.
 8.15 (approx.): Relay of Band Recital by the Port Nicholson Silver Band
 from the Grand Opera House.

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

- 3.0 : Gramophone recital.
 5.30: Children's song service by children of the Church of Christ Sunday
 Schools.
 6.15: Chimes from studio.
 6.30: Relay of evening service from the Church of Christ, Moorhouse
 Avenue. Preacher, Mr. E. P. Aderman, B.A.; Organist, Miss B.
 Readhead; Choir Conductor, Mr. H. E. Ames.
 7.45: Musical recordings from studio.
 8.15: Vienna Philharmonic Orchestra, "Dorfschwalben" (Strauss).
 8.23: Contralto—Mrs. Tristram Willcox, "Abide With Me" (Liddle).
 8.27: Instrumental trio—Misses Gladys Vincent (violin) and Doreen Daly
 (piano), Mr. Francis Bate (cello), "Fantaisies" (Schytte).
 8.36: Flute—Mr. A. E. Hutton, "Songs Without Words" (Clinton).
 8.47: Tenor—Mr. Douglas Suckling, (a) "A Little Bit of Heaven" (Ball),
 (b) "Life is a Caravan" (Del Riego).
 8.46: Violin—Miss Gladys Vincent, (a) "Rondino" (Beethoven), (b) "Horn-
 pipe" (Mistowski).
 8.50: Soprano—Miss Hilda Hutt, "The Blue Alsatian Mountains" (Adams).
 8.54: Cornet—Mr. R. Ohlsen, "Zanette" (Percy Code).
 9.1 : Weather forecast and station notices.
 9.3 : Philadelphia Symphony Orchestra, "Danse Macabre" (Saint-Saens).
 9.11: Contralto—Mrs. Tristram Willcox, (a) "Love Not the World" (Sulli-
 van), (b) "Hallelujah" (O'Connor Morris).
 9.15: 'Cello—Mr. Francis Bate, "Adagio Pathetique" (Godard).
 9.20: Choir—Manchester Children's Choir, "Nymphs and Shepherds."
 9.24: Tenor—Mr. Douglas Suckling, "Like to the Damask Rose" (Elgar).
 9.28: Flute—Mr. A. E. Hutton, "Andante" (Croner).
 9.33: Selection—Instrumental Trio, (a) "Londonderry Air" (arr. Kreisler),
 (b) "Fairy Frolic" (Quilter).
 9.41: Soprano—Miss Hilda Hutt, (a) "The Dawn has a Song" (Phillips),
 (b) "From the Land of Sky-Blue Water" (Cadman).
 9.47: Cornet—Mr. R. Ohlsen, "Song of the Roses" (Rollinson).
 9.53: Berlin Philharmonic Orchestra, "Carnaval Romain" (Berlioz).
 10.3 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, APRIL 12.

- 6.0 : Children's service.
 8.15: Studio concert.

Programme Features

(Continued from page 19.)

den, Maud," "Yes! Let Me Like a Sol-
 dier Fall," and "To a Miniature." Mrs.
 Enid Truda (soprano) will delight
 listeners with three numbers, "Waiaata
 Maori," "Les Cloches," and "Serenade
 in Summer." She will be heard in
 "Irish Medley" in conjunction with Mr.
 Oswald McGuinness. Mr. Claude Moss
 (baritone) will sing "Route Marchin,"
 "Boat Song" (by Ware), and "A
 Brown Bird Singing." The programme
 will be subject to interruption to per-
 mit of a relay of a sound film feature
 from the Majestic Theatre.

Christchurch Notes

THE fortnightly "Radio Service" talk
 by Messrs. D. Cossgrove and W.
 Melbourne, will be given this evening.
 A popular programme will be pre-
 sented immediately following. Humo-
 rous items will be given by Mr. Geo.
 Titchener, and piano solos by Miss
 Aileen Warren. Cabaret songs, to im-
 proved accompaniments, will be pre-
 sented by Messrs. Albert Carlisle and
 Les Grummitt. Instrumental items
 will be provided by the Christchurch
 Broadcasting Trio.

From 4 YA

A lecture recital on "Favourite
 National Songs, their History and
 Origin" will be given by Mr. John
 Leech and his company of artists.
 Songs characteristic of all the
 principal countries in the world will
 be sung. Explanatory remarks will
 be given by Mr. Leech.

SATURDAY

Auckland Features

FROM noon 1YA will relay the re-
 sults of the first day of the Avon-

dale Jockey Club's autumn meeting.
 The evening programme will consist of
 a relay of the Municipal Choir con-
 cert to be given in the Town Hall.
 This will be followed by a dance music
 session until 11 p.m.

Wellington Notes

AT 7.40 p.m., Mr. W. M. Jackson will
 give one of his interesting and in-
 structive talks on "Gladioli and Gar-
 dening Hints."

The first half of 2YA's programme
 will be devoted to the next of the
 "Eight O'clock Revue" series speci-
 ally written and arranged by Mr.
 Will Bishop. Comedy will be the
 main feature of the revue. The
 second half of the evening's pro-
 gramme will be in the hands of the
 Salon Orchestra, under Mr. M. T.
 Dixon, presenting a specially selected
 programme.

From Christchurch

Featured on 3YA's programme will
 be Lyndon P. Christie and his
 Rhythmic Symphonists. This is an
 excellent combination of six players,
 comprising Mr. Lyndon Christie
 (saxophone and clarinet), Miss
 Olive Winstone (pianiste), Mr.
 Jack Baston (banjo), Mr. Herb. Fox
 (trumpet), Mr. W. Lanham (trom-
 bone) and Mr. C. Crawford (drums,
 bells, and xylophone). Mr. Christie
 has recently returned from Aus-
 tralia, where he played for the
 Fuller's and Marlow-Rolls circuits,
 Wentworth Hotel, and David Jones,
 Limited. The programme for to-
 night will be of light and popular
 airs.

The Rose and Thistle Duo will pro-
 vide cabaret songs at the piano with
 banjolele. Popular numbers will be
 played by Miss Elaine Moody's
 Hawaiian Quartet, with steel guitar
 ukelele. A relay to 4YA will be car-
 ried out.

A.: The subject of direct supply eliminators and sets was discussed in the "R.R." from October 10 to 24 of that month, 1930. We would advise you to see these publications.

KENTY (Taumarunui): Will the components of my set take 180 volts without damage?—Yes, but you should apply 180 only to the last valve or two.

2. I have only two grid wires, + and —.

A.: This is no doubt the last stage, and you must use 40 volts for the 171 at 180 volts. If, however, the last two stages are connected with the same bias, then you must break the connections and take a third cap at about $\frac{1}{2}$ volts and apply it to the second last valve.

3. Could I do this myself?

A.: You could, if you know your way about a set. You must first of all accurately determine where your grid voltage goes. If there is a connection between G.B. of the last transformer and the same terminals on the second last you must cut this wire and join the end that goes to the second last transformer to $\frac{1}{2}$ volts grid bias. If this is not drawn from the same battery as is the last you must take the + terminal of the battery to the other "C" battery +. In other words, to "A—."

TROUBLED (Wellington): Shortwave coils of my "Night Hawk Two" would not oscillate till I doubled the number of turns on the reaction coil. The lowest one will not oscillate at all.

A.: You are using probably a valve that will not readily oscillate or your circuit is damped, and this accounts for your having to use more turns on the tickler. For shortwave use a 10 meg. grid leak. The last coil is more or less an experimental for there is really nothing down on that wavelength to listen to.

2. I can receive a carrier wave of a shortwave station, but I cannot tune them in.

A.: You may have to take the grid return to a variable point between A+ and A—, as shown in last week's "Record." You need a special shortwave choke if you want really good results.

3. A whining howl develops when the set is tuned to 3YA, but the set is not oscillating.

A.: It sounds like a microphonic valve. Place a rubber or lead cap over the valve and use an anti-microphonic valve socket.

4. Is my differential condenser satisfactory?—Yes.

5. There is a slight difference between the "Night Hawk Two" and the "Differential Two." Which is the better?

A.: Theoretically, they are both the same, though the layout of the "Night Hawk Two" is better than the "Diff. Two," which provides for the addition of further stages. The "Night Hawk Two"

would probably give the better result when two valves only are used.

6. Can I apply 90 volts "B" battery to a valve in a one-valve amplifier circuit, as per the enclosed? There is no "C" battery.

A.: There should be. Do not put 90 volts on the plate of a valve without adequate grid bias, which for PM4 should be about 9. The negative of the battery is connected to "F" on your transformer, and the positive to "A—."

"DISTANCE" (Hamilton): Would transformer with the primary reversed to secondary interfere with reception, for I tried it and it kept making a crackling noise?

A.: Most decidedly it would interfere with reception. Not only are you weakening your signals by turning the transformer round, but you are putting heavy current through the very fine windings of the secondary. In a very short time you will ruin your transformer. It almost sounds as if you have done so. Try a new transformer turned round the right way.

2. The middle of the transformer is the primary, is it not?—Yes.

3. My set appeared to have a wide range, Dunedin coming on on 20 and Christchurch on 60.

A.: Your dial is reversed. Dunedin should come in on 80 and Christchurch on 40, which is quite normal.

Note: Your log of 40 stations is quite creditable, but how do you incorporate a transformer in a one-valve set?

SELECTIVE (Christchurch):—I have an old artesian well. Would it be all right to put the earth wire down the pipe into the water? It is about 15 feet away.

A.: It is rather a long run, and it would be better if you could attach the wire to the pipe.

2. We do not know much about the set to which you refer, but think it should be more selective.

SEARCHER (Kaitake):—I cannot get the s.g. valve to work on my "Diff. Three." I cannot get above 2YB on the r.f. stage.

A.: The coil does not appear to be matched to the condenser, though using a .0005 condenser in the first stage will necessitate adjustment of the number of turns on the coil. Check up the turns and see if they are the same as published in the "R.R." a week or so ago.

2. The set appears to want more reaction turns.

Questions and Answers

(Continued from page 15.)

A.: Try the effect of a .0001 fixed condenser on the moving vanes to either of the fixed.

3. Does the 500 ohms. resistance and a 2 mfd. condenser make any difference to the volume?

A.: No, it was employed as a means for breaking down the battery voltage within the set. It also acts as a decoupling device.

4. Has the Diff. Four any special last stage audio?

A.: The Diff. Four is dealt with very fully this week.

5. Is the resistance and 2 mfd. condenser used as an output filter?

A.: The condenser in conjunction with a choke could be, if desired.

6. How is it that sometimes when I put the cap on the s.g. valve the set goes out of oscillation?

A.: This is due probably to their being adequate turns on the reaction condenser.

A.H.M. (Timaru):—I have constructed the Differential Three, but reaction is bad. It is very ploppy on the lower wavelength coils, and howls badly on the 80-meter band. The broadcast results are good.

A.: It appears as though you will have to incorporate the potentiometer idea of varying the grid return. Furthermore, it would be to your advantage to incorporate a special rheostat for the detector valve.

BEE DEE (Hawke's Bay): I have a single dial controlled B.D., but cannot get the results that constructors appear to get with very roughly put together apparatus.

A.: It appears to be the same trouble as many who attempt to gang the dials and receiver such as this. When using regeneration ganged condensers are rarely successful. If you use separate dials your trouble will no doubt disappear.

SHORTWAVE (Timaru): Can you supply me with shortwave coil data for s.w. and broadcast reception for a two-valve regenerative circuit? The condensers are .0001 tuning and .0003 reaction. Would you give me the number of turns to be wound on Colvern formers, 2in. in diameter?

A.: The .0001 tuning condenser is not satisfactory for broadcast and the .0003 unsatisfactory for regeneration. Reduce the latter to .00025. Specifications of shortwave coils can be found on page 15 of our issue of January 30. They are given for a 2in. diameter former using .00015 condenser, but you will find them quite satisfactory for your use. The broadcast coils for a .0001 condenser are as follow: For shortwave reception it is preferable to bring the aerial in directly to the top of the grid terminal and leave out the primary coil.

2. Could you give specifications for valve base coils?

A.: They were given for the Differential series.

3. Is the circuit suitable for all-round reception?

A.: Yes, if you employ a radio frequency choke between the junction of the tickler and regeneration condenser and the primary of the first audio transformer. Otherwise, the set is O.K.

U.X. (Te Kuiti): What is the inductance necessary in the choke of an impedance coupled audio amplifier?

A.: Your best plan in making a s.g. audio amplifier is to use resistance coupling is to use a plate resistance of 100,000 ohms, a coupling condenser of .5 mfd. and a grid resistance of $\frac{1}{2}$ meg.

2. How does such a stage compare with a stage of 227 with the transformer?

A.: The s.g. valve is not altogether successful as an audio amplifier except

in an L.W. circuit. You would be safer to use the 227 with a transformer.

3. Does a differential condenser necessitate much detuning?—No; less than other methods of reaction.

4. Will there be any decrease in efficiency if I put a layer of celluloid under the windings of the valve base coil and then give them a coat of cement?—No.

PROTON (Gisborne): What number of turns of the enclosed wire on a 2in. former is required for an aerial coil with a .0005 condenser using .0001 reaction? The coils will be for short-wave.

A.: It is impracticable to tune short-wave coils with a .0005 condenser. You will need a .0001 in series with it to reduce the capacity to less than .0001. The number of turns are: Sec. 25, tic. 9, sec. 13, tick. 5, sec. 7, tick. 6, sec. 4, tic. 5.

2. What numbers are required for regenerative detector coil? These are valve base coils.—Same.

3. What gauge is the enclosed enamelled wire?—18.

4. Are heterodyne wave-metres expensive and can any set use one?

A.: You will find full particulars about them in "Handy's Handbook," which will be a good investment if you are at all interested in short-wave reception.

A.E.B. (Auckland): When using a Daniell cells charger comprising four cells I found the voltage of my accumulator jumped to 2.5 volts. Is this serious?

A.: The normal voltage should be 2.2, and the extra is due to the rather high potential of the current delivered by the charger. You would reduce it by taking out one cell, but you may have difficulty then in keeping the battery charged. It will probably be quite satisfactory.

W.M.E. (Miramar): I wish to use my L.W. and the amplifier for the Diff. Three. How can I obtain the B supply from the L.W.?

A.: You will probably have great trouble in coupling the two sets together, especially with the regenerative detector. The radio section of the L.W. is some what troublesome. You could tap your B current off from the higher potential end of the 200 ohms potentiometer. The best method of coupling will be from the secondary of the audio transformer following the detector, but experience has shown us that such an arrangement is rarely successful.

TRANSMITTER (Kerepeti): Is it possible to obtain a circuit of the short-wave receiver used by "Switch"?

A.: It is a commercial receiver, but if you wrote "Switch" enclosing a stamped and addressed envelope for reply he would probably give it to you.

JACK (Wellington): See also reply to the above.

BRITISH PARTS (Pt. Waikato): What are the characteristics of the 112 type of valve as different from the 112A?

A.: The 112 requires $\frac{1}{2}$ an amp. of filament current.

2. Where can I obtain information on making the Leclanche type B batteries?

A.: Full details were given in an article "For the Sheer Joy of Construction," published in the "Radio Record" some months ago.

3. What m. amp. drain could be taken from such battery?

A.: No more than 10 m. amps.

4. Does the pentode handle as much power output as an ordinary power valve with the same plate voltage?

A.: According to recent figures published in the "Guide," no. Much, however, depends upon the design of the power valve with which the comparison was made. They have a very high undistorted power output.

5. Could the tuned anode circuit be arranged as below without loss of efficiency?

A.: Yes, the circuit should be quite satisfactory, the blocking condenser being about .001.

(Note: With regard to your request for a test of the speaker we shall try to obtain one to review.)

ENGLISH COMPONENTS JUST LANDED The Very Latest

REGENTONE POWER PACK, Dry Rectifier, 160v. 30 M/A 4 volts, 4 amps., A.C. And the Price is only £8

J.B. Chassimount Condenser, double and triple gang. 22/6 and 34/-
Magnum Spaghetti Resistance, 1500 ohms, 2000, 25,000 and 50,000. 2/6 each

Bulgin Flush Panel Mounting Signal Pilot Lamps 4/-

Bulgin Screened-Grid Shield Safety Connectors. 1/6

Wearite Delayed Action Switches 6/6

Bulgin Safety Fuse Holder (moulded). 1/-

Burndept Geared Vernier Dials, the very latest. 9/-

Ormond Duo Dual Dial, Black 3/6

Burndept R.F. Chokes. 4/-

Edison Bell R.F. Chokes. A superior article. 6/-

Edison Bell X. Double-tapped Coils, 40, 50 and 60. 5/-

F. J. W. FEAR & CO.

63 WILLIS STREET, WELLINGTON. 'Phone 41-446

Short-wave News

Radio Maroc, Rabot, Morocco.

THE Radio Maroc (Rabot) broadcasts are re-transmitted every Monday by the new 9 kilowatt Maroc-France short-wave station between 12 and 1.30 a.m. N.Z.T. on 23.8 metres, and between 7.30 a.m. and 9.30 a.m. on 32.26 metres.

CNSMC (Casablanca), on 48 metres, also relays the same entertainments, according to the following schedule: Tuesdays, 8.30 a.m. to 10.30 a.m.; Wednesday, 12.30 a.m. to 1.30 a.m.; and on Sunday 12.30 a.m. to 1.30 a.m., and from 8.30 a.m. to 10.30 a.m. N.Z. time.

XDA, Mexico City.

MR. W. BRIDEN JONES (Palmerston North) received a letter from Mexico with the following particulars: XDA is a 20 kilowatt "Telefunken" crystal controlled transmitter, working on a dual wavelength of 20.5 and 40.9 metres. The station operates the transoceanic radio telegraph and press radio telephone. They operate a constant service from 6 a.m. to 8 a.m., N.Z. standard time.

Log for Week Ending Sunday, March 29

RV15, Siberia, 70.1 metres.—Every evening at good volume. Static is less severe just now.

HVJ, Vatican City, 50.26 metres.—Nearly every morning till about 7 a.m. at R8-9. On Friday morning a complete schedule for both wavelengths was read, both for telephony and telegraphy. It was too fast for me to copy.

50.1 metres (about).—There is a station working on this wavelength each morning at good volume, with plenty of music. Talk is foreign, and so far a call has not been identified.

7LO, Nairobi, 50 metres.—R6 at best each morning, but very gushy.

PK3AN, Sourabaya, Java, 49.7 metres.—Saturday, 11.45 p.m., just audible through static.

WSXAL, Cincinnati, 49.5 metres.—Sunday, good at R3 at 5 p.m., but on R4 at the same time on Saturday.

VOR2, Vienna, 49.4 metres.—Monday, 6.30 a.m., talk at R5.

W3XAL, Boundbrook, 49.18 metres.—Sunday and Saturday, spoilt by static. Volume not so strong as a few weeks ago.

Saigon, Indio-China, 49 metres.—Saturday only evening up late enough to hear, when volume was only R8 at 11.30 p.m. Static was very bad.

ADD-A-PHONE

To your set or use it
INDEPENDENTLY.

It will perform excellently. Mr. McDonagh, secretary of the N.Z. Short-wave Club, and other up-to-date short-wave amateurs, all use

MACK'S FAMOUS LITTLE SHORT-WAVE SET.

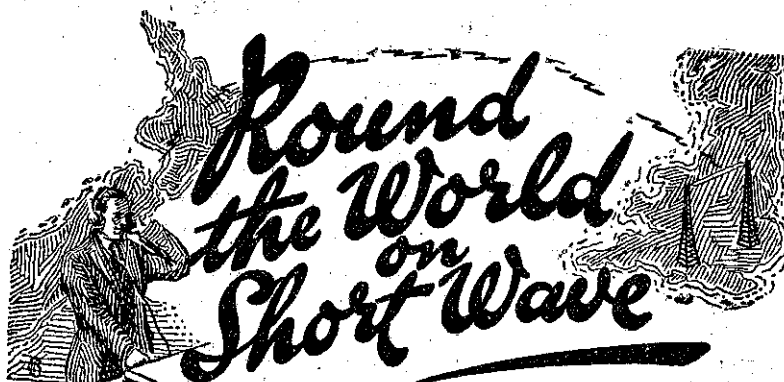
Testifying to its performance. Now why hesitate or doubt any more?

BUY AN ADD-A-PHONE.

Ask your Dealer or Write

Mack's Radio Service

76 Kent Terrace, Wellington.
Phone 23-448



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.

W8XX, Pittsburgh, 48.86 metres.—Sunday, at 4.30 p.m., messages for the Far North were received at R8.

HRB, Honduras, 48.62 metres.—Sunday, R8 at 4.30 p.m., but only R4 on Saturday at the same time. Readability very poor on account of static and surging.

Moscow, 45.4 metres (about).—Always quite good each morning till about 7 a.m.

44.6 metres (about).—On Monday a lot of "Alloa, Alloa," was heard at R5, but nothing else; closing at 6.30 a.m.

VK3ME, Melbourne, 31.55 metres.—Saturday, from 9.30 p.m., at R9, testing with records, reading, etc. Reception excellent.

OXY, Denmark, 31.51 metres.—Thursday morning was the best yet from this station. At 6.25 a.m. the "Holy City" was heard at R7. At 6.30 a.m. a clock chimed and struck 8 (one hour ahead of GMT). This was followed by an announcement, but could not understand any of it. The talk was similar to German.

W2XAF, Schenectady, 31.48 metres.—This station can be heard as early as 11 a.m. now, very weak, but reaching R9 soon after 2 p.m.

Zeegen, Germany, 31.38 metres.—6.30 a.m. is the best time now for Zeegen. Some very fine music has been heard during the past week.

WIXAZ, Springfield, Mass., 31.35 metres.—Sunday and Saturday, 4.30 p.m., being about the time for best volume, which on the latter day was R8-9, with an organ recital.

PCJ, Eindhoven, Holland, 31.28 metres.—Thursday, R7 at 6.30 a.m. to R6 at 7.35 when signing off. Saturday a little stronger at the same time. The Saturday afternoon programme came through quite well, being best at 4.30 p.m., when volume was R8-9.

5SW, Chelmsford, 25.53 metres.—Volume good each morning from 6.30 a.m., but rapid fade always very severe, more than usual.

12RO, Rome, 25.4 metres.—Excellent each morning at 7.30 a.m., and most mornings from 6.30 a.m.

GBS, England, 24.69 metres, was heard calling J1AA, Japan, on Saturday at 9.30 p.m. At 10.30 p.m. still calling; said that J1AA was very weak.

J1AA, Japan, 20.1 metres (about).—Wednesday at 10 p.m. calling "Hullo, GBS, London; this is J1AA," etc. The place was given but cannot pronounce it. Records were played while waiting for London to reply. Volume was R8, with a strong ripple and noisy background. On Saturday at 10 p.m. J1AA was just audible when GBS was calling.

W2XAD, Schenectady, 19.56 metres.—Friday, 7.30 a.m., R3; too gushy to be readable.

PLG, Java, 18.8 metres.—Saturday from 9.15 p.m. records at R8, with severe fading.

N.Z. Shortwave Club

From the Secretary's Pen

I AM still struggling with a pile of letters, and in addition there's QSL cards, badges, and membership certificates to be got away. The country members will soon see we haven't forgotten them.

Here's a letter from Feilding saying it might be possible to get nine or ten members there, and asking if a branch could be formed. Certainly! You can have a representative and we can keep in touch with him.

Now, I have some bad news concerning the QSL cards, which we estimated would be 2/6 per 100. We found that it was necessary to use a better quality card in two colours, which makes the nearest we can do them at 3/- per 100 without postage. We feel sure that members do not want a cheap card, and the samples sent in look a really good article. We trust members will appreciate that we have cut the cost as fine as we could without cutting quality.

Hello, VK3ME, Melbourne, Hello 3ZC Christchurch; thanks for your good wishes. Yes, we will be pleased to report.

Our badges are now available, but they can only be supplied to bona-fide members.

I have a letter which gives me advice about another short-wave club. I won't repeat it, but I will say again that this is a New Zealand club which is run on the suggestions of its members. Conditions are different out here.

I am not sure, but I believe a mascot will soon appear in the shape of an owl paperweight. I heard one of the Nightowl Club members murmur something about it. Already a globe of the world graces the secretarial desk. Alongside it is the "original" horn speaker which Noah used for DX.

I shall be only too pleased to hear from anyone interested in short-wave. Address letters, A. B. McDonagh, Secretary N.Z. Short-Wave Club, 274 Cuba Street, Wellington.

Short-wave Stations

A Good List

FOLLOWING is a list of the principal short-wave broadcasting stations which may be heard in New Zealand at present. It was compiled by Mr. L. Saunders, NZ12W official receiving station:—

Mornings, 6 to 8 o'clock.

	Metres.
W2XAD, Schenectady, New York, U.S.A.	19.5
W8XX, Pittsburgh, U.S.A.	25.25
12RO, Rome, Italy	25.4

G5SW, Chelmsford, England ..	25.53
PCJ (Fridays and Saturdays), Holland	31.28
Zeegen, Germany	31.28
1AY, Radio Placenza, Italy	45
7LO, Nairobi, Africa	49.50
RFN, Moscow, Russia	45.5
Afternoons.	
W8XX, Pittsburgh, U.S.A., till 5.30 p.m.	25.25
PCJ, Holland, till 6 p.m. (Saturday)	31.28
WIXAZ, Springfield, U.S.A., till 5 p.m.	31.35
W2XAF, Schenectady, U.S.A., till 4 p.m.	31.48
HRB, Honduras	48.62
VE9CL, Winnipeg, Canada, till 7 p.m.	48.7
W8XX, Pittsburgh, U.S.A., 5 to 6 p.m. (Saturday and Sunday)	48.86
W8XAL, Mason, Ohio, U.S.A., 6 to 7 p.m.	49.5
W3XAL, Bound Brook, N.J., 5 to 6 p.m.	49.18
W9XF, Chicago, U.S.A., 6 to 7 p.m. (off the air)	49.33
Evenings.	
RV15, Kharbarovsk, Siberia, 8.30 p.m. onwards	70.2
3ZC, Christchurch, N.Z., 7 to 8 p.m. (Fridays)	46.3
Night and Early Morning.	
Radio, Saigon, F3ICD, Indo-China, 11.15 p.m. on	49.0
DHC, Nauen, Germany, 11 p.m.	26.2
FTN, Paris, and FTZ, Rabat, Morocco, occasionally, 23 and	24
VK3ME, Melbourne, Australia, 10.30 to 11.30 p.m. (Saturdays)	31.35
PLM, Java, occasionally, 11 p.m.	24.46
PK3AN, Sourabaya, Java, 12 p.m.	49.50
PMY, Bandoeng, Java, 12 p.m.	58
J1AA, Japan, irregular, 7.30 p.m.	37.5
10 p.m. onwards, 40 to 45 metres.	
VK amateurs.	
ZL amateurs mostly on 80 to 90 metres.	

FOR SALE OR EXCHANGE

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

WANTED to buy: Electric Gramophone Motor complete. Must be low priced. Induction type preferred. Also 2 amp. battery charger. Write A. Brown, 20 Connaught Terrace, Wellington.

FIGURE of Youthful Slenderness can be yours by taking Youth-O-Form Capsules. 6/6 posted. A. C. Timms, Chemist, Pahiataua.

WE repair Battery and Electric Radios, Speakers, Eliminators. Estimates given. Latest appliances. Valves tested free. R. H. Co., 553, Colombo Street, Christchurch.

OBSIDITY! Youth-O-Form Capsules quickly remove superfluous adipose tissue. 6 weeks' supply, 24/-. A. C. Timms, Chemist, Pahiataua.

£26 Triple Screen-Grid Metrodyne Chassis and Dynamic, less valves. Powerful, easily tuned. Phono. Connection. R. H. Co., 553 Colombo Street, Christchurch.

STOUT people restored to normal weight by taking Youth-O-Form Capsules. Absolutely harmless. 6/6 posted. A. C. Timms, Chemist, Pahiataua.

AERIAL Wire, 100ft., 3/-; Tinned, 3/6; Heavier, 4/9, 5/6, 6/-. Lead-ins, 25ft., 2/-. R. H. Co., 553 Colombo Street, Christchurch.

HOWEVER heretish we be at the moment's dernier cri, there is no doubt that fashion soon will insist on head adornment that will materially assist in turning a certain type of beauty into a very creditable replica of an angel in a Renaissance picture. For a-haloed we will go, Paris has proclaimed it, and meekly we follow in her wake. Quite extraordinarily beautifying is off-the-face encircling rim to spirituelle type of face, the wiseful, other-world appeal of which having of late years been pushed into background by blatancy of skimpy skirt, knobby knees and shorn tresses. One prophesies, with some degree of surety, despite playful way of wind and skin exposed to heat o' sun at noonday, much will be braved by blonde and brunette in whose appeal there lingers a suggestion of spotlessness from the world's wicked ways, combined with youth, and the right curve of throat and profile. So let the Botticelli type of maid and matron not linger for posterity to plant aureole upon tresses no longer marcelled, but hasten to add to their sartorial successes a Halo Hat.



expect humour, courage, or even common sense from such an empty-headed, resentful little wretch—and naturally she takes a jaundiced view of club life. It is a pity that Mr. Priestley has chosen to sneer at this phase of communal existence. It meets a great modern need, and many women consider that it offers them—besides economic independence—both interesting companionship and breadth of outlook in greater measure than does the more solitary furnished room or flat. She may be right. We admire Mr. Priestley; but probably the incensed feminist, on this occasion, knows a great deal more about the subject than mere man.

It is quite on the cards that an apparently docile husband may secretly long to devote time to hobby or sport or study, but, stifling his perfectly human and lovable desire, sets out to "better the position." Which, perchance, accounts for the somewhat wistful and hunted look you will sometimes see on the faces of successful men. It is true that, to some, competition is the breath of life, and the be-all and end-all of existence on this planet; but there are gentler souls who, having won all that is needed for comfort for those for whom they are responsible, would fain

8, at which Miss Young presided, the guest of honour being Miss Lorna Rae. The two women novelists have much in common, both being young, full of interest in every movement, and especially concerned in the psychology of women. E. H. Young is Mrs. J. A. R. Daniell, widow of a solicitor who was killed in the war. She is essentially English, a hard worker, and is now concentrating on her seventh novel, which will be awaited with eager anticipation by the many admirers of her sound creative achievement and pungent analysis of humanity's foibles.

IN the recent woodcut revival in England the art of Miss Clare Leighton has found many devotees. Some readers will recall her poster work for the Empire Marketing Board, and also she has made her mark in book illustrating. A writer in "The Bookman" states that her reputation in Britain was established by her work in Hardy's "The Return of the Native," and in Mr. Thornton Wilder's "Bridge of San Luis Rey," both, one imagines, extremely difficult to illustrate in any medium, particularly the latter haunting chronicle of strange lives impinging upon one another. Miss Leighton makes skilful utilisation of white line contrasted with bold massing of blacks, and her work should be well suited to Mr. H. M. Tomlinson's magnificently powerful and original writing, "The Sea and the Jungle," having been illustrated by this girl artist.

SWEDEN, the land of a highly intelligent and industrious populace, possesses a vein of artistic ability and enthusiasm which is steadily making its influence felt in aesthetic circles of the wider world. Outstanding in achievement among devotees of art in Scandinavia is a brother of Sweden's King, Prince Eugen, who is now exhibiting in London at the Exposition of Swedish Industrial Art. Against all competition this able and energetic country leads in this particular branch of artistic activity; and it may be an encouragement to our sisters who, with toil and endeavour, follow the gleam of commercial art, to know they are in aristocratic company, particularly if they have a streak of the snob in their make-up, as most people have.

"SHE is so like a saint. She must be a creature of another race, so high and mighty and angelic, doing things by impulse or some divine inspiration—not effort and struggle of will. But she seems almost too holy to be talked about as a mere wonder. She appears as completely led by God as Joan of Arc."—Mrs. Gaskell on Florence Nightingale.

"SISTER" Aimee McPherson, the Los Angeles "hot-gospeller," has bought a hula skirt in Honolulu on her way to India as an aid to studying the women's movement so that she can "help the women of India spiritually." If one put Miss McPherson in a self-respecting work of fiction, one would be accused of overdoing it. Yet the amazing fact remains that she has a large following in Los Angeles, and the "services" at her Temple defy all description.

Nothing can utterly die,
Music aloft upspringing
Turns to pure atoms of sky
Each golden note of thy
singing.
And that to which morning
did listen
At eve in a rainbow may
glister.

Beauty when laid in the grave
Feedeth the lily beside her,
Therefore the soul cannot have
Station or honour denied her
She will not better her essence
But wear a crown in God's
presence.

—Edward Fitzgerald.

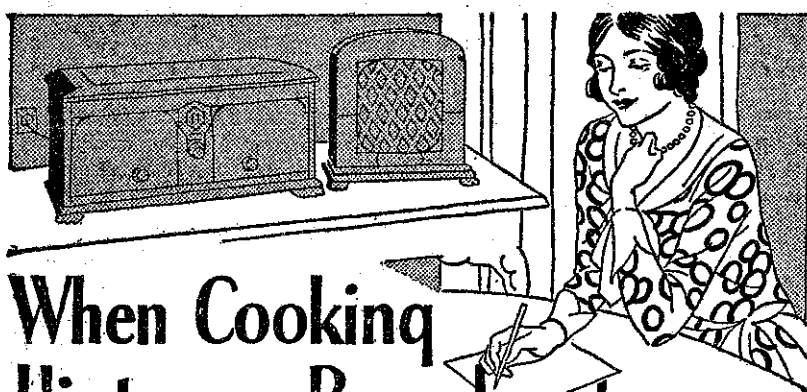
go a-roving over the blue hills, or lounge by a crackling fire and dream dreams.

DO you know that an asbestos mat makes an ideal toaster, as it becomes very hot, and ensures a crisp brown toast without burning? That lamb chops will be greatly improved in flavour if a little lemon juice is squeezed over them before cooking. That velvet hats which have become spotted with rain should be brushed lightly with a small wire brush, such as is used for cleaning suede shoes? That sheets can be tested for perfect dryness by putting a hand mirror into the bed; if filmed, the sheets are damp? That crystal, in a setting of silver, is greatly favoured as a jewelled extra to dress or hat; that straight quills or wings of carved crystal decorate many berets in knitted wool and silk; and tiny crystal flowers are used as a border to a turban of black satin?

ANENT women writers, it is interesting to note that E. H. Young, author of the very successful "Miss Mole" and five other novels, including a very special favourite in one's own library, the inimitable "William," is chairman of the Writers' Club this year. An interesting social function was a luncheon in London on March

AN indignant clubite in an English paper, having read "Angel Pavement," thus takes popular Mr. J. B. Priestley to task: "As a resident in a London women's club, I wonder where Mr. Priestley obtained his 'copy.' For no club resembling the Burpenfield Club can exist. What he describes may approximate to a mental home, or a poor law ward, but let him not call it a typical women's club. No less unfortunate creation is his mouthpiece, Miss Marfield. No one would

IN an English contemporary, thus muses one who possesses the seeing eye and the understanding heart: Many clever women of forceful character marry men with the intention of making them turn easy-going nature in the direction of wresting commercial success from whatever powers there be, and a typical wife of this variety never loses her managing ways, however high a man may climb. One admires her energy and resource, but is it ever wise to nag, even with the highest motives?



When Cooking Hints are Broadcast —

Free!

Folder of "Tested Recipes." White "Anchor," Box 115, Auckland.

You'll get some good tips. But don't forget this one: For your baking and every recipe that calls for milk, use "Anchor" Skim Milk Powder. Unequalled for Scones, Cakes, Biscuits, Pastry and Puddings. Makes them light and nutritious. "Anchor" Skim Milk Powder is always ready for use. It does not turn sour or spoil. It is economical and pleasant to use. Try it next time you bake. 1/2 for a generous-sized tin. Ask your grocer.



ANCHOR

SKIM MILK POWDER

... With ... BOOK and VERSE

By "John O'Dreams"

"STRANGE INTERLUDE," that frank and powerful play, revealing without fear or favour the complexities of a woman's heart, is being presented in London, where one judges it will raise much comment. The American playwright limns his puppets with bold strokes, and never at any time hesitates to call a spade a spade. It will be interesting to hear what the London Press has to say anent the frankly physical nature of many of the episodes and much of the talk. The play is in nine acts; will start at six, and there will be an interval for dinner between 8 and 9. Mr. O'Neill has employed the method, for the greater understanding of unravelling of plot and character, of permitting his characters to utter their thoughts sotto voce, and interlard these manifestations of their inner selves among speech and action of the play proper. A doubtful experiment, but apparently a successful one.

MR. DEREK PATMORE, who is the great-grandson of Coventry Patmore, the author of "The Angel in the House," has just completed a life of his distinguished forbear, which will be published shortly.

"DETECTIVE DAYS" is not the latest example of the Edgar Wallace type of fiction, but a sober chronicle by Detective-Inspector Wesley of forty odd years in the police force. With his wealth of material, and extensive acquaintance with criminals of all sorts and conditions, this should be a human document of absorbing interest, especially to those (and they are many) who are interested in the evolution of crime and the tracking down thereof.

ANENT the present-day trend of much of the fiction published, a disgruntled mere man writes thus in a well-known English weekly: "The deservedly popular success of Mr. Priestley's 'Good Companions' may be the one straw that indicates the way the gust of novel reading is blowing. The modern novel has too often been no more than episodes in the lives of persons with ill-regulated passions, or of puppets whirled into amazing situations, by a tornado of improbable events. The regiment of women writers dishes up heroines who should have been shut up in lunatic asylums, or have had their ears severely boxed for being egregious egoists without an idea beyond sex satisfaction." Not perhaps very gracefully expressed, but there's something in what he says.

THE prize of half a guinea in the current competition is awarded to D.P., for "The Master," in which an idea of beauty is presented in poetic phraseology. We congratulate our contributor on this lovely fragment; and also select for special commendation "Nocturne," by R.B.C., this being an arresting impression of the mystery of night, couched in unusual and successful verse form, though not quite so artistic an effort as that of the prize-winner.

"Pauline": Many of the great ones of the earth have sought inspiration in the festival of the holy Easter-tide. A noble subject, but you fall into bathos.

"Merrie": "The Moon" is the better of the two poems submitted, and tinkles along prettily enough. "Memories" is somewhat hazy in expression.

"Weary Willie": Sentiment admirable, but something more is required to crystallise emotion into poetry. We suggest study of the achievement of more skilful versifiers.

O.M.: Your work holds a quality of originality. Of your poems we prefer "Heart of Stone," which gives evidence of creative thought coupled with certain adequacy of expression.

Dale St. Maur: "Post Mortem" arrests by virtue of gruesome subject, aptly enhanced by verse form selected. Your Triolet is not altogether a successful essay in that particular genre.

"In the Hop Gardens" goes with a will and is all for the out-of-doors, but it is not poetry. Par exemple:

Hieing batchwards, homewards, hieing, hieing, hieing,
Soon the sleep of hoppers with sleep of babes is vicing!

Fairlie: Much vain repetition.

"Lorelei": The roseate hues of early dawn recur once more, but without success.

"John o' Groat's": A rush of words signifying nothing.

"Flag-waver": Not a hope!

The Master

*He raised his bow, the whisperings died,
The hot room sank away, the walls grew wide.
Across a shadowy land a faint wind blew,
A wild bird cried,
The silence stirred and broke,
In meadows frothed with flowers
Sky-larks awoke.
Over a long blue hill
Dawn welled, pellucid, still.
Each hollow dreamed, a shallow pool of blue,
Each sun-ward hill pulsed coloured fires of dew,
And through it all a golden singing went,
As of a heart that seemed that it must break
For very ecstasy of beauty pent,
"Awake," it sang, "Oh wake, awake!
No loveliness is lost,
It is enough to be,
For beauty's sake."*

*Silence—a breathless pause,
Then, like a sudden rainstorm,
The applause.*

—D.P.

MR. RUDYARD KIPLING'S new novel, entitled "William the Conqueror," will appear simultaneously in the American "Ladies' Home Journal" and English "Gentlewoman."

THE annual prize, known as The Femina Vie Hereuse Prize, of \$40 is presented by the French magazine Femina, on the award of a committee, for the best work of imagination in English, published during the year by an author whose work has hitherto, in the opinion of the committee, received insufficient recognition. This year, we learn from the "Bookman" the books recommended by the Paris committee are: "Miss Mole," by E. H. Young; "High Wind in Jamaica," by Richard Hughes; and "Three Daughters," by Jane Dashwood. Truly this is a trio of brilliant originality and interest, and it will be interesting to know the decision of the committee in what will be a very arduous task, for all three of the chosen novels are of outstanding quality.

GIFTED with ineffable spirituality and magical power of expression, Mr. Walter de la Mare is pre-eminently fitted to write of the wonderful years when the soul is in bud. Most wisely, his publishers have now collected into one volume entitled "Poems for Children," all his writings anent the short and fleeting span of youth. Mr. de la Mare's purity of vision, psychic quality, and communion with forces beyond mundane mentality of rank and file of humanity, render him peculiarly well fitted to vocalise youth's radiance, and crystallise into poetry the sighing of sea and stars. But his verse, dewy and innocent and other-world, must be approached in the true spirit, with an endeavour to recapture the "first, fine, careless rapture" of dawning days, flitting emotions, dreams, and passionate regrets that go to make the heart of a child.

SORE THROAT?
Pulmonas
PASTILLES
QUICKLY RELIEVE
1/6 a tin all chemists

FAMA For Bathrooms, Lavatories,
Sink-tops, etc.
FAMA STONEWOOD FLOORING CO., Wellington.

The 1931 "Guide"

IS ON SALE EVERYWHERE!

For the last six months our readers have been anxiously awaiting the publication of the 1931 edition, and we now have pleasure in announcing its appearance for sale. Copies may be obtained from any bookseller or radio-dealer right throughout New Zealand.

As in former years, every phase of radio has been exhaustively and simply discussed and tables and charts brought up-to-date, whilst the stations calls section now covers twenty-three pages, so those who purchase the latest work are sure to find that they once more have obtained a wonderful book of reference and instruction.

CHAPTERS OF INTEREST

Chapter 1.—Radio in New Zealand.
Chapter 2.—A brief account of the technique of broadcasting. Linking up with recording for gramophones and talkies. Selectivity and the Robinson Radiostat. Sets: How they work. All types, from crystals to super-heterodyne.

Chapter 3.—Gramophones section. Notes on popular gramophone topics, pick-ups, etc.

Chapter 4.—Construction, including tips and jottings, and how to make all types of sets with complete circuits.

Chapter 5.—Transformer construction.
Chapter 6.—Short-wave reception and transmission. Complete circuits for different types of short-wave sets and adaptors.

Chapter 7.—Trouble tracking method fully described.

Chapter 8.—Call Book. Every station that can be heard in New Zealand is listed, giving full details as to call sign-frequency, etc.

Chapter 9.—Reference section.

Chapter 10.—Glossary of wireless terms.

For Amateur Constructors

Many new ideas are shown in this year's circuits, all of which have been tried and proven in the laboratory before inclusion in the Guide.

Constructors may build with our guidance any set up to five valves, no matter whether it be A.C. or battery, combination or shortwave; should they desire to do so.

Perhaps the most popular shortwave circuit will prove to be the screen-grid A.C. receiver using four valves; the test model in our laboratory has brought in England, Holland and America with full loud-speaker strength, and the other circuits described are equally as good as this one in fulfilling the purpose for which they were designed.

The "Call Book" Section

The most comprehensive call book ever published in the Southern Hemisphere will be included in the 1931 Guide. All the New Zealand and Australian stations listed will have complete particulars of call-sign, address, power, wave-length frequency, and hours of operation.

For the purposes of overseas compilation we have had numerous official correspondents in many parts of the world forwarding full details of the stations in their particular countries.

Sufficient is it to say that over 400 American stations are listed, giving all details, with the exception of hours of operation. Stations in such countries as Canada, Mexico, Cuba, Japan, and China have also been similarly dealt with.

The most important shortwave transmitters in all countries are given, with their hours of operation in New Zealand time.

RADIO GUIDE and CALL BOOK

Price **2/6**

Published by the

Radio Record

P.O. BOX 1032

WELLINGTON

Obtainable from all
Radio Dealers and
Booksellers.

Country Readers may
use the Coupon

ORDER WITH THIS COUPON.

"RADIO
RECORD."
P.O. Box 1032,
Wellington.

Please find enclosed P.N. for 2/10, being payment (& postage) for one "Radio Guide and Call Book." It is to be dispatched to me immediately.

Name

Address

3/4/31.