

PUBLISHED WEEKLY

THE RADIO RECORD

AND

HOME JOURNAL

Vol. V., No. 12.

WELLINGTON, FRIDAY, OCTOBER 2, 1931.

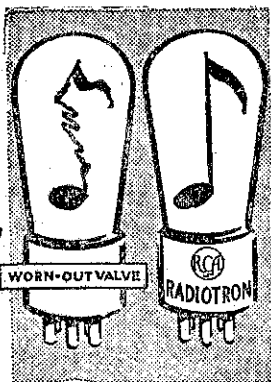
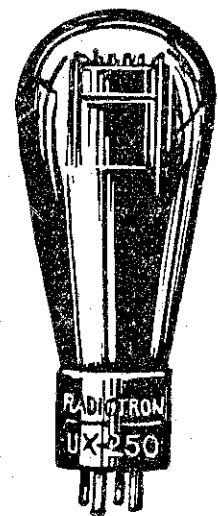
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PUBLIC listening saloons are to be erected in the Moscow area by the Soviet broadcasting authorities.

GERMAN medical authorities recently installed a wireless coast station for the broadcasting of medical advice to ships. A ship transmitting a call of this kind is connected through this medium direct to the National Hospital at Cuxhaven. On August 10 last Holland instituted a similar service to enable ships at sea to ask for wireless advice from the doctors in the Red Cross Hospital at The Hague for the benefit of sick persons on board. Radiograms and consultations are supplied without charge.

AS a result of successful experiments recently conducted with a new signal apparatus invented by Professor Benz, of Vienna, it is proposed to install portable shortwave stations in every refuge hut on the Austrian Alps. They are so constructed that they can be readily used in emergency by non-expert and can even be made automatic, giving SOS signals with an unmistakable identifying sign for the particular hut from which the call is sent.

MR. H. A. L. FISHER, chairman of the B.B.C.'s Central Council for School Broadcasting, said that during the year ended in June last, over 600 new schools had installed radio receivers and adopted the use of broadcast lessons. School broadcasting had now passed the experimental stage. Teachers should not judge the value of broadcast lessons by the average reaction of their classes; a fresh voice, coming from outside, informed and illumined by a type of experience other than that which was common to the

teachers in the school, might always have the chance of lighting a flame of intellectual ambition in the mind of some promising boy or girl. Even if reception were bad, and the average response of the class indifferent, yet the experiment was worth while for this reason.

AN arrangement has been made in France recently between the Society of Authors, Composers and Editors of Music and the Professional Syndicate of Wireless Industries with regard to the royalties to be paid by establishments giving public radio concerts. Such establishments have been divided into three categories, as follows:—

1. Important establishments at large stores where the concert is purely of a public character. In these cases a fixed fee will be made for the concert or a series of concerts.

2. Shops which give loudspeaker demonstrations which are not reserved exclusively for its customers, but which may be listened to by passers-by or by visitors who may be allowed to enter the shop freely. The royalty in this case varies from 11 to 23 francs per

month, according to the size of town and shop.

3. Shops giving demonstrations exclusively for the benefit of their customers are not required to pay any royalty.

IT has been suggested that the extra £35,000 which the British Post Office has added to the B.B.C.'s share of license fees should be used to build an Empire shortwave transmitter at Daventry. Apropos this, the "Wireless World" remarks that the B.B.C. is "up in arms against the suggestion." "A year or two ago," continues that authority, "there was a general feeling in this country that an Empire broadcasting service should be pushed forward with all possible speed, but after negotiations had been established between the Home Government, the colonies, and the B.B.C. to discuss the matter, the response from overseas has proved somewhat disappointing, and the eagerness of the colonies to participate in an Empire broadcasting service does not seem sufficiently keen to inspire an overwhelming desire on their part to contribute towards the necessary expenses."

THE question of whether listening to broadcasting is conducive to careful and prudent driving is now being considered by the Montreal City Council, as the result of a motion before the aldermen asking for the abolition of receiving equipment in motor-cars. As the issue presents a great divergence of views, the Royal Automobile Club of Canada has invited motorists to submit their opinions in writing. So far the majority of letters received favour the installation of receivers in cars, it being held that they provide good entertainment on long trips. "It is at least better than the backseat driver," argues one writer. Others claim that they never "tune in" until they begin to travel on the country roads. Sets are never used while driving on the city streets, it is held; hence there is no reason for Montreal to legislate against them. That opinion is divided on the question is shown by the tenor of other missives, the writers of which are alterably opposed to the installation of sets in cars on the ground that they bother and hinder the driver. It can be quite imagined that in some circumstances an exhortation from the loud-speaker to "Keep right on to the end of the road" might inspire even a timid driver with temporary courage to ignore the admonitory arm of the law; and "Sing Holly, Go Whistle, Hey, Hey!" as a greeting would not be likely to assuage affronted authority when the constable looked in at the window to demand "name and address, please!"

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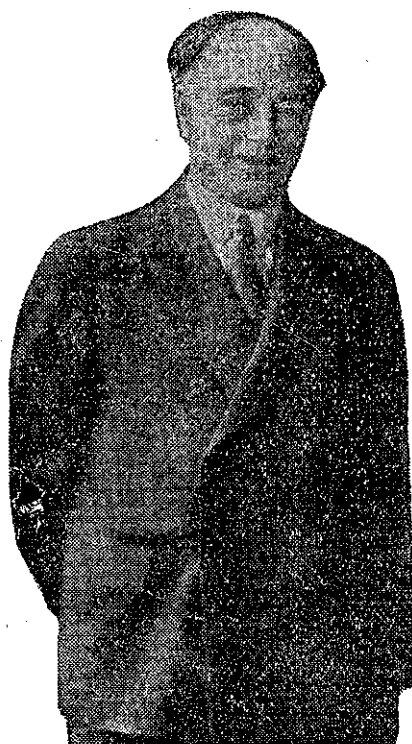
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WELLINGTON

How Do You Do Everybody How Are You?

Wellington Community Singers Successfully Spread Joy-Germs



Frank

(Mr. Frank Crowther)

Pianist of the Joygerm Four, about whom many listeners asked searching personal questions.

—S. P. Andrew, photo.

the country has the mid-day hour brought happiness. The sings have done incalculable good; they have given us more to think about than the mundane details of present-day existence and they have scattered "joy germs" far and near.

It would be impossible to give credit to all who have been associated with the work—there have been so many—but four people who have endeared themselves to a wide circle of friends and admirers must be mentioned. They are Mrs. Albert Russell, Messrs. Owen Pritchard, Frank Crowther and Albert Russell. Mr. Crowther particularly seems to have made an impression on the fairer listeners, for many have asked of him flattering personal questions.

Voluntary collections were taken for the Mayor's distress fund, and these amounts were augmented by contributions from listeners. In some cases articles were sent in to be sold or auctioned, and the carrying out of this caused much merriment. Good prices were realised, despite the fact that the auctioneer was an amateur.

Of the songs, "John Brown's Baby" seems to have become universally popular. "John is dead, and even you, Mr. Russell, have been heard to disown the baby, so here is half a crown for the poor fatherless child," runs one letter. Another, from a private hospital, seems to intimate that during Wednesday's lunch-hour professional duties and patients are neglected, "the whole staff taking a professional interest in John Brown's baby and awaiting with anxiety the development of its ailments." Another letter reads: "Sorry to

NO longer has John Brown's baby a cold upon his chest. Community singing in Wellington has been brought to a close for this season. Commenced upon the memorable occasion when Mr. Peter Dawson was expected to be present, the weekly sing-songs held in the Wellington Town Hall have proved an outstanding success. Not only to participants in the capital city but to radio listeners throughout

say, I am a bachelor, but I have a great liking for the baby, so am sending a pair of booties for you to auction and am enclosing 2/- to start the bidding." They were sold for 2/6.

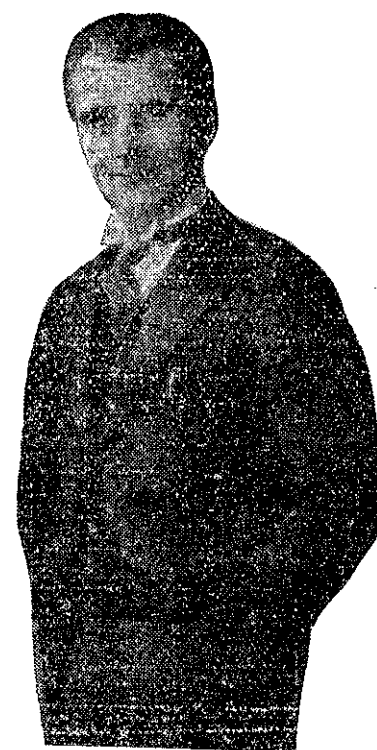
Among the very large number of letters received by the organisers of the sing were many snatches of real humour and glimpses into the lives of members of the vast audience. Many forgot their troubles and caught the spirit of optimism being radiated from the Town Hall. There was a "Gran." of Lyall Bay whose regular, cheery notes, usually containing a remittance, became a feature of the sings. Yet this person, like many who obviously made sacrifices, never divulged her name, preferring to be known only as "Gran."

There was a letter from Blenheim stating that its writer was sending up some posies in the hope that the Red Cross ladies might be able to dispose of them and so raise a few shillings for the fund. The same correspondent added: "Is Frank the pianist engaged or married, because if he is not, next year being leap year, he will be rushed."

The same spirit of optimism found its way into the remote country districts, and low prices, mud and toil were forgotten while music and songs, reminiscent of better days, came over the air. Here is a typical note: "Please find enclosed 3/-, half the only cheque we have received for this last two months—Taranaki cockey's only pocket-money at present (poor bobby calves). Who says there is no money in farming, anyhow, are we downhearted?—No. We enjoyed the sing and

We caught the germ last Wednesday,
Oh, how it did delight us,
For all the germs we seem to get,
Are the ones that cause mammitis."

The same correspondent adds: "The following is how I used to feel before I had the pleasure of listening-in—it would be such fun to us for you to try and describe what I am like."—"A Hard-up Cockey's Wife": (Continued on page 2)

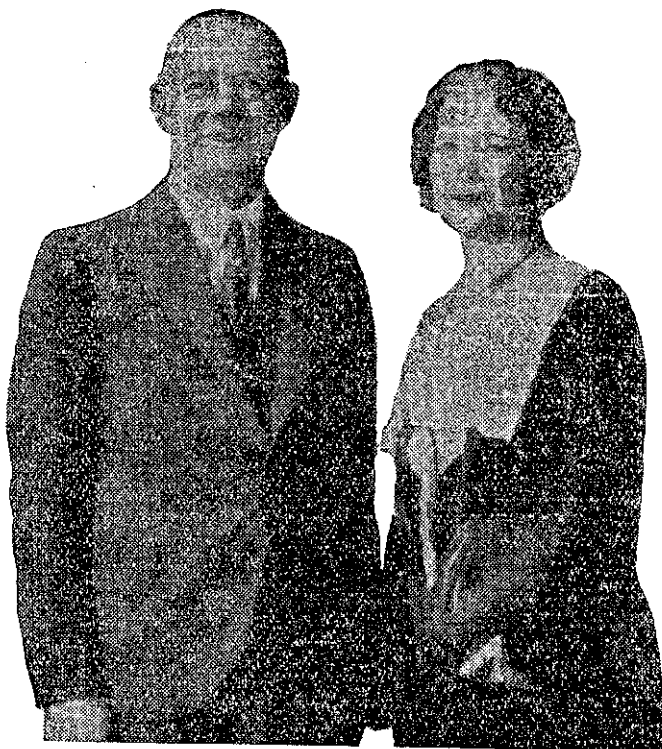


Owen

(Mr. Owen Pritchard)

Always had a joke to crack, usually at the expense of his colleagues or "Clive". He is not a bad auctioneer.

—S. P. Andrew, photo.



Albert and Mrs. Albert

(Mr. and Mrs. Albert Russell)

Someone described Mr. Russell as a joygerm incubator—his picture does convey that idea, doesn't it? His favourite song is undoubtedly "John Brown's Baby." During the sings Mrs. Russell became justly popular with a large radio audience.

—S. P. Andrew, photo.

"How Do You Do?"

(Continued from page 1.)

*Oh, who would be a cocky's wife,
To work from morn till night,
With butter fat at only a bob,
And land at such a price.*

*No picture shows or cabarets,
Such things would turn our heads,
For when we've milked our cows at night,
We're glad to go to bed.*

*Oh, who would be a cocky's wife,
When things are looking glum,
With skim milk, cheese, and high-priced
land,
We're well nigh dumb.*

Here is another glimpse into a home where radio brought the joy germs and a quiet sacrifice made for others "possibly worse off."

"My husband is out of work, so he lies in bed until midday, saving breakfast and tobacco. So I can send you 2/6 for your sing-song."

A flash of humour comes from the Manawatu. "That song, 'Somewhere the Sun is Shining,' may be true in Wellington, but sunshine is a stranger in Kairanga. Wednesday is a holiday here now, and we forget the cows and mud for an hour."

And so the letters read, every one with some word of approbation and nearly all enclosing a donation. One letter relates how some school children gave a concert, for admission to which they charged 3d, thereby raising 6/-. Another correspondent says: "You seem to have stirred up latent notes within me

—I forward two for £1 each." Comes a letter from a boardinghouse: "We find your joy germs better than the Saturday night pint. We will do without the latter in the future and forward the 5/- instead."

But there is a case on record of the sing-song precipitating a domestic tragedy. "So great and all-powerful was the last community sing-song that our cat had time to eat my neighbour's canary while she (the neighbour), like me, sat dazed. I am being sued for the price of the canary, so would you kindly sing 'Who Killed Cock Robin,' or something like it?"

Animals are often mentioned in the letters—"Wise men say cows are fond of music, which increases production—Frank's playing should make them fill a can instead of a bucket. They are not filling too large a one in this weather."

Another correspondent gave a graphic description of a canine "dogs-ology" and a "bark-a-roll." An appreciative listener offered a sitting of eggs to be sold for whatever it might fetch.

And so, in each of the many letters, there is something which expressed the intense admiration of the listener. Donations could not always be made, though it was not difficult to see that there was a desire to make one. Hence the offerings in kind.

The promoters and principals, however, declare that they have had the lion's share of the fun. They were tremendously interested in the sing-songs, for they felt that they had the support of not only their seen audience, but also of the great unseen audience that radio brought to them. They express appreciation of the many donations and kind remarks that were made. These spur-

Huge Mail Bags**Received by American Stations**

THE "New York Times" recently published an article on the correspondence that comes to American broadcasting stations. It described how overwhelming the mail was when the radio listener was an enthusiast, how it gradually fell off, and how it was stimulated into revival.

"The broadcasters had learned to like the mail. Naturally they enjoyed reading the flattering letters and the letters of criticism. The former they felt came from the hearts of the true radio fan. The latter from cranks. And naturally in a countless audience, which was estimated to number many millions, there were sure to be cranks. So they didn't take those letters seriously. They liked the others best."

"There came a time when the stations realised that something must be done to stimulate mail. They sanc-

tioned the programme sponsors to offer samples and prizes and to conduct contests on the air. Soon the mail trucks began to make more frequent trips to the studios. The mail soared. The 'bait' did the trick.

"To-day one programme sponsor who supports a twelve-minute band concert nightly, except Sunday, offers an automobile to the listener who sends in twenty cigar bands with a word written on each band that makes twenty words of advertising for that particular cigar. A board of judges selects the best 'advertisement' daily and the winner learns over the air that he has won an automobile. And the less fortunate listeners hear that they, too, have an opportunity to win an automobile. Apparently they are trying to take advantage when Dame Opportunity knocks on their door. Letters are being received at an average rate of 10,000 daily, which means that 200,000 cigars have been purchased, which is equivalent to 1,200,000 cigars a week.

"This is just one example of the way in which the radio audience responds to the announcer's message on the air. Maurice Chevalier offered his picture to all who made a request accompanied by a label off a coffee can. He sent out more than 50,000 pictures. Amos 'n' Andy offered a bottle of mouth-wash to those who made the request along with two cartons in which they had purchased tubes of tooth-paste. In less than two weeks a million bottles had a million destinations."

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JAVA--A Tropic Wonderland

A Talk Broadcast Recently
from 3YA

by L. R. R. Denny, M.A., F.R.Hist.S.



WHEN first I planned my trip abroad, and the opportunity for giving rein to the wanderlust actually came my way, I registered a vow that if I could possibly manage it, I would include at least a portion of the Far East in my travels.

After a few disappointments in an endeavour to arrange satisfactory sailings, I found in the Haymarket the London agency for the Rotterdamsche Lloyd Royal Mail Line, and finalised with them for a voyage on the Patria, bound for Batavia, and calling on her way at Tangiers, Marseilles, Port Said, Colombo, Sabang, Singapore, Belawan Deli, and finally Tandjong Priok and Java. Of my voyage I can say only this: That I was the only British-born subject from Port Said onward, and yet, such was the kindness and good-fellowship of the Dutch passengers, and the unfailing courtesy of the officers, that I never was permitted to have a dull moment.

One's first glimpse of the Malay Archipelago comes as one enters the very lovely densely-wooded harbour of Sabang on the little island of Poeloh Weh at the northern extremity of Sumatra. From there the ship threads her way down the Malacca Straits, to Singapore, whence Batavia is less than two days' sail. Sabang and Singapore are both free harbours.

Java is a land of contrasts. The primitive lives on here in immediate contact with modern life, but apparently untouched by it. In Batavia the newest in automobiles speed up town and down town, along the Molenvliet Canal that connects the new and the old sections of the city, and in the water that runs between those swirling currents of modern traffic, the Javanese modestly perform their daily ablutions as their ancestors have done for hundreds of years. Motor trucks thunder down to the docks with the many products of Javanese agriculture, rubber, tea, rice, pearl tapioca, sugar, coffee, quinine and so on, and beside them lumber native carts, drawn by slow-moving yokes of oxen. Enter a village and you will see the women pound the rice in large wooden mortars, and crush the juice from the sugar-cane with a primitive press which is turned by a stolid ox, while nearby the machines of a hulling-mill or sugar factory are humming a song of modern efficiency in speed.

In Middle Java, the Susuhunan of Solo, and the Sultan of Djokjakarta are still living the feudal life that age-long tradition has consecrated, while around them are hundreds of menials who, when approaching their august persons, must creep in a squatting position.

Economically and politically Java is by far the most important island of the

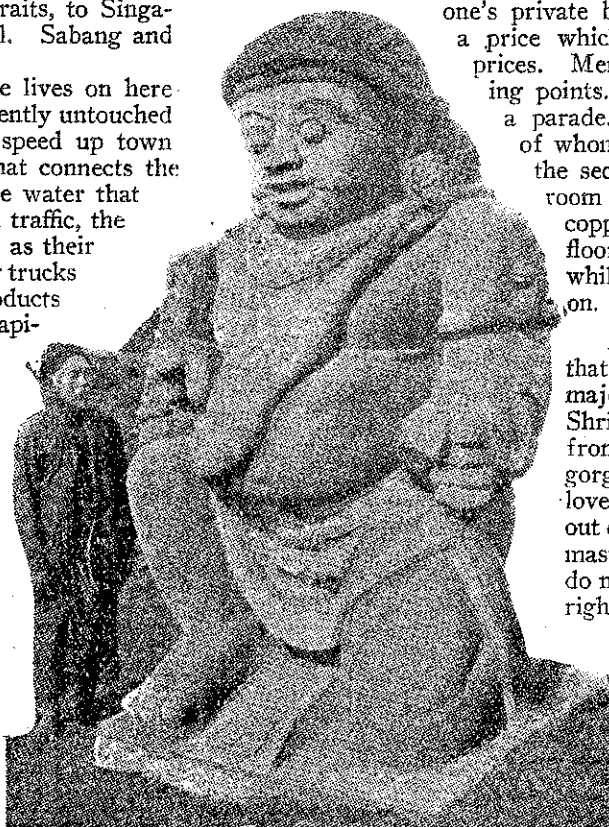
Archipelago, but in size it is the smallest of the Greater Sunda Isles. It has an area of 50,000 square metres, which is about $4\frac{1}{2}$ times the size of Holland or, to bring it nearer home, is approximately that of the South Island of New Zealand. The population is 38,000,000. Like the South Island, too, it is traversed by a range of mountains, but in Java these have active volcanic cones. The total number of volcanoes exceeds one hundred, but not all of them are active.

ONE of these, Mount Merapi, near the famous Boro Boedoe Temple, was in violent eruption not long after my visit. I had heard of Merapi and asked my guide to show it to me. My knowledge of Malay was by this time sufficient for my ordinary needs, but it could not cope with mountains. So we fell to signs, and by an ingenious but perfectly lucid system of signs with his hands, my Malay boy told me that Merapi was behind the clouds, but that when it was meal-time (mid-day) it would be visible.

Hotels in the main tourist centres are extremely good. On account of the extreme heat they are architecturally different from the ordinary hotel. They are frequently planned in three blocks—administrative, social and dining-rooms in the centre, and private suites on either side. At the Hotel Preanger in Bandung, I had a comfortable and commodious room, with telephone, the latest in lighting, and as always one's private balcony with easy-chairs and writing-desk at a price which compared favourably with New Zealand prices. Mention of hotels brings to mind several interesting points. One is rijstafel, the meal which is almost a parade. Another is the Dutch wife, the mention of whom scandalises the unsophisticated tourist, until the secret is told. Yet another is the funny bathroom one sometimes stumbles upon. It contains a copper full of ice-cold water set on a concrete floor, from which one ladles out one's shower while tjitjaks and gomboks and mosquitoes look on.

Among the kaleidoscopic panorama of pictures that come before the mind, one that stands out majestic and wonderful is the Boro Boedoe—the Shrine of a Thousand Buddhas. The journey from Djokja to its mountain home is one of gorgeous beauty, luxuriant and varied; and its loveliness intensifies as one ascends the low hill out of which grows Boro Boedoe. Who built this masterpiece of human art and craftsmanship we do not know; but in setting it in the Kedu plateau, rightly named the Garden of Java, with four imposing volcanoes skirting it as virile sentinels, they stamped themselves for all time as tremendously alert to the beauty that surrounded them.

Beneath a vault of blue sky is stretched a plateau brilliant with every shade of green, from the emerald of the young rice crops to the almost blue of the tropical (Concluded on page 31.)



A guardian of the Shrine of a Thousand Buddhas.

The New Zealand Radio Record

—AND—

Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032. WELLINGTON.

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

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

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

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

WELLINGTON, FRIDAY, OCTOBER 2, 1931.

THE LURE OF DXING.

IN these days we hear much about dxing, in fact the term has become almost a byword in radio parlance. The word has an interesting origin. In the early days of telegraphy in America all long-distance lines were worked upon the duplex principle—a system embodying the use of one line instead of many—and so the term, "dx," a contraction of "duplex," became associated with long-distance telegraphy. When radio became popular as a hobby many American telegraphists became radio transmitters, and hence the adoption of the term "dx" by radio amateurs. The term "duplex" was gradually lost and dx came to signify distance as applied to radio communications.

In the earlier days dx work was restricted to an enthusiastic few, but with the development of radio as a means of entertainment, greater numbers became interested in distance reception until everyone owning a powerful set is more or less interested in dx. There is something fascinating about the pastime; there are thrills incomprehensible to those who have never gone beyond their local stations. The thought that in one's own home it is possible to listen to music and speech from a studio thousands of miles away, perhaps in America, Asia, or even Europe, has kept many a listener for hours at his receiver trying to explore farther and farther afield. Herein lies the lure of dxing.

TO a large extent, dxing is dependent upon atmospheric conditions which are both daily and seasonal in variation. The last two seasons have been unusually favourable, so much so that it is becoming quite common for New Zealand listeners to receive on broadcast stations in England and Europe—a truly remarkable achievement. In New Zealand the growth of dxing as a hobby may be traced back some three years or more to the days when the five or six-valve battery set was the height of the ambition of the listener who wanted to explore the ether. In those days the reception of KFOX, Longbeach, California, was something to be marvelled at. Nowadays to have a log of some thirty American stations is quite common, and there are few logs that do not include Japanese and Indian stations. This advance-

ment has been due to two factors: firstly, the increase in efficiency of modern sets; and, secondly, growth in numbers and power of broadcasting stations. About three years ago it was a powerful station that radiated 5 kilowatts of power; nowadays it is not uncommon for stations to transmit on 50, 100, and even 500 kilowatts of power.

Dxers have much in common, and it is not surprising to see that in all parts of the world they are forming themselves into various clubs and associations. Several of these are of world-wide membership and the fraternity existing among the members is a great factor in promoting international understanding.

Cycle Race Commentary

CYCLISTS throughout New Zealand will tune in to 3YA on Saturday, October 3, to hear progress reports of the Waimate to Christchurch road race. 3YA will be on the air from 1.30 p.m. The finish of the race will be described on relay from the Addington Showgrounds.

Lecturer and Writer from 3YA

MR. PAUL EDMONDS, who is visiting New Zealand as examiner in elocution for the Trinity College of Music, London, will give a talk from 3YA, Christchurch, on Friday, October 2, at 9 o'clock. Mr. Edmonds is well known as a lecturer and writer. When a prisoner of war in the hands of the Turks after the fall of Kut-el-Amara, he conducted a choir and produced plays. For some years he has been closely identified with Trinity College as examiner in elocution. His talk from 3YA is entitled "Plain Speaking."

London Radio Exhibition

Cheaper and Better Sets

A REMARKABLE reduction in the prices of wireless sets and a great improvement in reception and selectivity are the main features of the National Radio Exhibition, which opened at Olympia, London, on September 19.

The latest developments in receivers, which range from a baby portable that can be slipped in the hip pocket to radio gramophones 12ft. high, are being exhibited on five miles of stands.

The recent development of the radio industry at Home has been such that the available space at Olympia has proved insufficient for all firms wishing to exhibit, and an "overflow exhibition" is to be held in Manchester, opening on October 7.

Problems of power and selectivity have been so far mastered that manufacturers are giving great attention to the external appearance of sets, both standard and portable.

New Perth Station

THE construction and installation of a new "B" class broadcasting station for West Australia are being carried out by Amalgamated Wireless. This station will be the most modern in the State, ranking with that at Bendigo. The call-sign allotted is 6PR, and the station will work on a wavelength of 341 metres (880 k.c.), with a power of 200 watts (unmodulated) in the aerial. It is intended to keep the station on the air for seven hours a day.

Pursuit of Murderers

Police Carry Wireless

A POLICE party which recently left Perth, Western Australia, to investigate rumours of the murder of two white men by aborigines, are carrying with them a complete portable short-wave transmitter and receiver. It is expected that the party will thus be able to maintain daily schedules with headquarters. The mobile transmitter obtains power from a hand-driven generator, which delivers 400 volt to the plate of the transmitting valve.

[A recent cable stated that this party had been beaten by the drought and forced to return.]

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in New Zealand
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Why?

Our Mailbag

Third Grid in Trouble.

IN reply to "Third Grid's" jest about Mr. Drummond, I must rather upset his argument by telling him that he has not caught Mr. Drummond yet with a mistake, as he was not in the North Island at that time. Perhaps his third grid is giving him some trouble.—"Amperite" (Stratford).

"HI, HI! 'Third Grid' (Greymouth). I heartily agree with you that more popular instrumental music should be put over the air by the R.B.C., for the reason that this particular class of music can be produced by very inferior sets; thus it would stop, to a certain extent, the complaints of transmissions from YA stations. Reproducing sets should be able to reproduce an announcer's voice, but HI HI 'Third Grid,' you got the wrong announcer in your net. Don't criticise until you are sure of your mark. Try another speaker or set.—'Second Grid' (Masterton)."

The Future of Broadcasting.

THE future of broadcasting seems to occasion great concern among those who think that the monopoly of the existing company should not be disturbed. You have devoted a good deal of space in your leaders since the present company made what they call a full and comprehensive statement of the position up to the present.

The question which puzzles me is whether your articles are written in the interests of the company, or in the interests of the dealers, or in the interests of listeners, who are in the great majority.

As a recent wireless convert and a listener paying 30/- a year that compels me to listen to a mixture of a lot of Yankee trash both musical and spoken, I fail to see that we are going to be any worse off by the proposed change. The business of broadcasting is so closely allied to the telegraph service of this and any other country, that to divorce it and place it in the hands of a company, whose one of a few objects is profit made out of listeners' fees, does not, I am sure, meet with the considered opinion of the sensible majority of listeners in this Dominion.

In support of the contention that Government control has ruined programmes you publish the views of the wireless operator on the Tainui.

I can quote an authority who happens to be the author of over a dozen editions devoted to wireless. (Could your Tainui operator write such a dozen?)

My authority states that the B.B.C. is easily the most efficient organisation of the kind in the world, that it is taken as a standard by every foreign country, including America.—"Observer."

[This correspondent quoted in conclusion a lengthy extract from the editorial columns of another paper on a subject with which we dealt extensively earlier, quoting from many editorials, and we have not space for further extracts.—Ed.]

An Abrupt Ending.

ALTHOUGH a keen supporter of the Radio Broadcasting Company, I very much disapprove of their policy of changing over from the children's session to the dinner music session so

OLD-TIME DANCES

PROGRAMMES of old-time dances are soon to be a regular feature of the YA stations. Of late there has been a great revival of popular interest in the old dances, and the gramophone record makers have produced some very fine recordings of waltzes, polkas, valetas, mazurkas, lancers, Boston two-steps, schottisches and maxinas. All these once popular dances will be included in the hour and a-half programmes which are being prepared for presentation at intervals from the YA stations.



abruptly. On Monday, September 21, I was listening to the children's session from 3YA. It was getting very near the conclusion when a very popular artist on 3YA's children's programme commenced to sing the good-night song—accompanied by a harp—when suddenly the chimes broke in on the music. That would not have been so bad, but as soon as the clock had finished striking, instead of allowing the young lady to finish her song, she was abruptly switched off, and, without any announcement, the dinner music started. Surely, in a case like this, a little latitude could be allowed and the dinner music session delayed a minute or two to allow the children's session to be formally concluded.—DX9NW.

Two Amusing Incidents

Concerning Head of B.B.C.

TWO of the best anecdotes arising from the broadcasting industry strangely concern Sir John C. W. Reith, head of the B.B.C. The first occurred on the occasion of his formal address recently before the National Council for Education by Radio at the Institute for Social Service in New York, while he was on a visit to U.S.A. Sir John had followed Secretary Wilbur on the list of speakers, which was to conclude with President Hoover's introduction of Prof. Millikan, new president of the council. The director-general, as is his wont, had

referred in positive terms to some of the difficult aspects of the United States method of sponsored programmes. He concluded his talk a minute before President Hoover was to go on from Washington.

The operator back of the stage immediately threw the switch and tuned to WJZ, which was to broadcast the Chief Executive's address. To the astonishment of the members in the auditorium, a voice issued from the loudspeaker on the stage: "You have just listened to a programme presented under the auspices of . . . company, makers of thin sliced ham and bacon. When you go to your dealer, ask for . . . etc." Sir John indicated that the English are not always slow to appreciate a humorous situation.

The second incident was related by Sir John himself as representing the most amusing broadcast "accident" which has come to his attention.

A bishop was completing his radio service from one of the B.B.C. studios. Listeners followed him to his last words, which ended: "I hope I meet all my listeners in heaven," but then to the horror of the British came the American slang phrase in the unmistakable voice of the same bishop: "I don't think!"

Investigation showed that the bishop was the victim of slow work on the part of the station operator. As he concluded his address he turned to the announcer and remarked: "I don't think I've exceeded my time, have I?" but the control operator had failed to "kill" the mike until the first three words had caused thousands of English listeners to gasp in amazement.

Television Near at Hand

Authoritative Prophecy

WITHIN a few years it will be possible to see by wireless the Cup Tie final at Wembley, the performance of opera at Covent Garden, athletic events and pageants from the comfort and seclusion of one's own sitting-room. Television in the home is near at hand.

This was a forecast made recently by Mr. E. T. Fisk, of A.W.A. Ltd., in an address on the wonders of wireless to members of the Arts Club in Sydney.

Every Sunday for the last five or six weeks, Mr. Fisk added, people in Alaska, England, South Africa, New York, Japan, and other parts of the world had listened to the call of the kookaburra, broadcast from Sydney. Three weeks ago, lying in his bed at Lindfield, he had had a conversation with the commander of the White Star liner Homeric, in mid-Atlantic. Every day throughout the year commercial letters were flashed across the world at the rate of 12,000,000 or 15,000,000 words a year. Each word travelled from Australia to England in a twentieth of a second.

"The time is coming," Mr. Fisk added, "when pictures will be transmitted across the world by wireless. Another phase of picture transmission has also been developed—that is the transmission of living, or moving, pictures. Indeed, this is already being done in a laboratory sense. The day is coming when events on the other side of the world will be witnessed here. I do not predict that it will be at an early date, but after some years."

RESULTS OF LUCKY BIRD ART UNION.

Drawn Town Hall, Wellington, September 19, 1931.

1st PRIZE, £2000 No. E95779
2nd PRIZE, £500 No. D41386
3rd PRIZE, £250 No. D98627

4 PRIZES OF £100 EACH:
A71677 B79751 D88633 E92428

4 PRIZES OF £50 EACH:
A20810 B61276 C55408 C62149

4 PRIZES OF £25 EACH:
A32417 A54253 A79094 B96307

20 PRIZES OF £10 EACH:
A63599 64708 73670
B22905 81667 82855
C22761 22879 35109 64624 81141
D22573 40728 47454 57794
E37020 38050 60933 67900 93001

70 PRIZES OF £5 EACH:
A24040 24138 31289 32825 37059
38890 40361 40625 41502 46399
69695 70980 81608 82445 83608
87181 89209 92147 96604 99659
B33136 33674 40451 41127 46206
74494 75133 78582 80670 81667
81704 81756 86026 91770 93771
C25178 30093 31189 34825 43583
47930 50817 62882 63759 64531
66851 81355 91771
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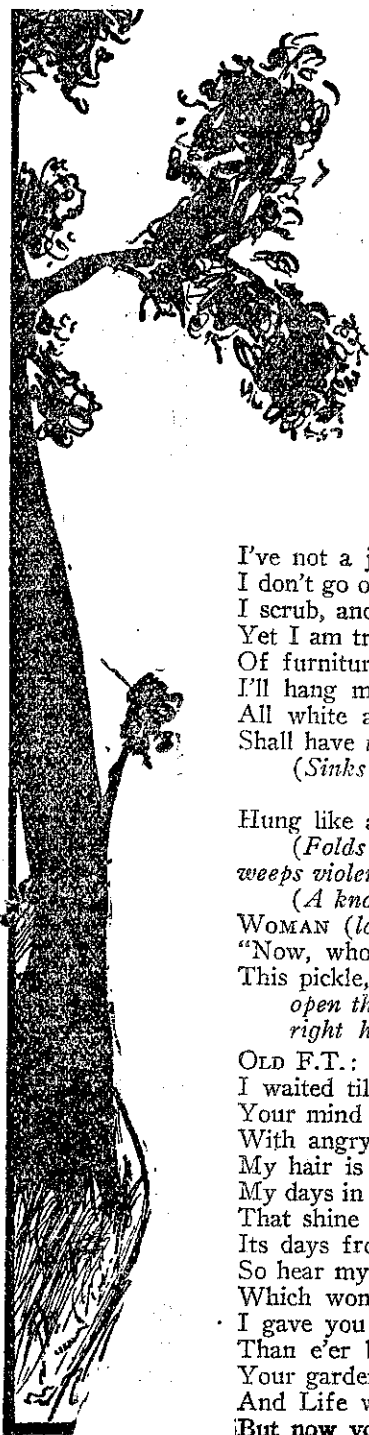
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BRITISH AND BEST—MINIMISE FIRE RISKS



ONE-ACT PLAY "Little Paradise"

By
I. BROOK

This is the last play to be published in the joint "Radio Record" and "Dairy Exporter" play competition. Among those specially commended by Mr. Victor Lloyd was this dainty little fantasy by a young country authoress, Miss I. Brook, Motu, Gisborne.

CHARACTERS:

OLD FATHER TIME (a woman with a deep voice), dressed in a long cloak and carrying a scythe.

SPRING, in flowing, pale green, carrying a bunch of violets.

SUMMER, in pink, carrying pink roses.

AUTUMN, in rich brown, wearing trails of crimson and yellow leaves.

WINTER, in white.

A WOMAN of about forty, in drab, serviceable dress. Her hair is done up at the back in a tight bun.

SCENE:

A farm kitchen, with table in centre, chair left, and door right. A calendar or small picture hangs on the wall. The woman is scrubbing the floor, and suddenly lifts and moves the bucket with impatience, letting the handle fall with a clatter (a zinc bucket does admirably). She flings the scrubbing brush and the cloth on to the floor and strikes a tragic attitude.

WOMAN:

"I'm sick of this—the same thing every day,

And no one ever gives me thanks for it!

I've not a joy or happiness to boast—

I don't go out, and no one visits me;

I scrub, and clean, and cook, and wash, and sew,

Yet I am treated like a useful piece

Of furniture!—I won't be treated thus!

I'll hang myself, and they shall find my corpse,

All white and stretched, and dangling down. Then they
Shall have their sorrow!"

(Sinks into chair, continues hysterically.)

"Yes, to think of me
Hung like a thief—it's just a wicked shame!"

(Folds arms on table, drops her head on to them, and weeps violently.)

(A knock at the door.)

WOMAN *(looking up)*:

"Now, who is that? And just when I am in
This pickle, too!" *(Quickly dries her eyes, and hastens to open the door. Enter Old Father Time, who takes her right hand.)*

OLD F.T.: My dear, I've come at last!

I waited till your patience had eloped,

Your mind rebellious waxed, your eyes were filled

With angry tears. Now hearken, child, to me—

My hair is hoary, and my sight is dim,

My days in number as the very stars

That shine in Heaven; my wisdom, too, can count

Its days from the beginning of the world.

So hear my words! I gave you youth and grace

Which won for you the purest joys in Life!

I gave you love, and you were sweeter then

Than e'er before! Your home was Paradise;

Your garden was a place of loveliness,

And Life was full of pleasantness and peace.

But now your fairest dreams are skeletons—

The stars are cold; your garden waits in vain
For fragrant scents, and colours richly blent,
And moths at night, when moonbeams flicker low!
The children's laughter is no longer sweet,
And 'tis a task to tend your Paradise.

(Woman sits, and leans head on hand.)

Child, I have pity, and I shall restore
Your old delight in every lovely thing.

Maids of the Year, come in!"

(Enter Spring, Summer, Autumn and Winter. Spring places her violets in woman's lap.)

SPRING:

"My lady fair,

Sweets to the sweet! But do I see the girl,

Laughing and gay, who loved in olden days

My golden hair and changing eyes of blue,

My tiny buds, in wisps of frailest green?

Where are the hands that used to wave to me

Far o'er the hills, where blew my 'witching breath?

Scrubbing the floor? 'Twere better left undone,

And you with me were shouting on the hills!

Playmate, a smile! And let us make a tryst—

Down by the trees, where grew these violets!"

(Woman smiles, and Summer comes forward and gives her the roses.)

SUMMER:

"They're lovely, dear; but not so live and sweet

As once your blushes on a summer eve!

Those golden hours!—when gracious fragrances,

Mingled with peace, made meditation sweet;

Sunny my days, and gay my meadows are;

Crimson my poppies, pure my sapphire skies;

Lark on a dewy morn sings ecstasy!

Come back with me, to feel my Æolian breath.

To dream your dreams, and hear the minstrelry

Born of the birds. Come, hie away with me

To find your olden loves!"

(Woman laughs.)

WOMAN:

"Oh, but, I can't!"

(Autumn gives her a trail of leaves.)

AUTUMN:

"Then I am sure that you will come with me!

My treasures are the richest of the year—

I've stores of gold, and rubies flaming red,

Flashing in ev'ry place where leaves are blown

Lightly and far, from trees that wish to sleep!

Mellow and rich my sun, and gay my hair,

Crispy my nights, and pure my evening star—

Lover of flying oak leaves, spiced and brown,

Come, come with me, and share my glorious wealth!"

(Concluded on page 8.)

12 days

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C2-H.P.31.

"Little Paradise"

(Continued from page 7.)

(Woman smiles and nods, and Winter takes her hand.)

WINTER:

"I have no gift to bring, but just my love.

My heart is pure, my gems are fair and white—

Pale frosted pearls, and flashing diamonds

Brighter than stars! My breath is chill,

Yet warm and loving is the heart of me.

Red, glowing fires express my fellowship

On stormy nights; so when the tempests roar,

Come to the fire—enjoy the cosy rest Given to earth in Winter's chilly reign!"

(Woman rises, and with outstretched hands looks happily at all.)

WOMAN:

"Thank you! Oh, thank you! I am very glad!"

Old F.T.:

"My dear, your heart has lost its bitterness!

Pray that your soul be ever full of light—

Pray, and your fervent words shall high ascend,

Far past the stars, unto the feet of God!

Maids of the Year, give her a new array,

Then let us haste."

(The seasons take the woman out left, and Old F.T. sits in chair and is lost in meditation, elbow on table and head leaning on hand. The others return, the woman laughing and dressed in a pretty, but simple, frock, full and fairly long. Her hair is softly and becomingly arranged.)

SPRING (gaily):

"Old Father Time, I ask Is she not sweet, and as she used to be?"

Old F.T.:

"Aye, even so; and Woman, do not keep

Those ugly things which shroud your soul in gloom.

Hold fast to Light and Beauty, and with Love

Make every day a living grateful prayer

To God, Who gives you all that's beautiful!

Home shall become a little Paradise, And all your ways and all your paths be peace.

(Rises stiffly.)

Farewell!"

(Maids of the Year kiss the woman. Old F.T. shakes her hand and moves toward door.)

SPRING (to woman):

"Good-bye, and don't forget to come! I'll meet you on the first October day!"

SUMMER:

"Good-bye, my dear—I'll meet you in the fields

Where poppies are!"

AUTUMN:

"Good-bye, my sister gay,

"I'll call you when my riches come to me!"

WINTER:

"Farewell, dear friend! And sometimes think of me

Who, cold and chill, yet holds a world of life!"

WOMAN (gaily, following them to door):

"Thank you again! I cannot half express

My thanks to you for opening wide and free

The gate to Beauty, long closed fast to me!

Yes, we shall meet at every trysting place!—

Yes, I will come and take your friendly hands.

There, we shall live our golden hours again—

Here, I shall make my Little Paradise!"

(They pass out one by one, Old Father Time being last, and woman stands waving for a minute. Then turns and looks at bucket, etc.)

WOMAN (gaily):

"My Paradise? I'd better scrub the floor!"

CURTAIN.

Children's Sessions

FROM 2YA.

Monday: Uncle Jeff and the Rongotai College Boys will be in the studio this evening, and we will have choruses, riddles and fun. They are going to sing songs that Uncle Noel has composed for them. Kipling Lady will also be present.

Tuesday: Tweedledum and Tweedledee have prepared "Hop o' My Thumb" for to-night. Miss Esme Crowe is coming too, and she is bringing a band of children to sing choruses.

Wednesday: Aunt Daisy's turn to-night, to talk to the Radio Family. Mind you all join in the community singing, and try to learn the words of all the songs. Aunt Daisy will tell you a little more about her visit to the woollen mill.

Thursday: Another "Sea Evening" to-night. Big Brother Jack and Uncle George are going to take us on a large yacht round the coast of New Zealand. You will hear sea-songs like "Rowing Sailors," "Fisherman's Song," "A Sailor's Dance," a hornpipe and some sea shanties.

Friday: Uncle Jim, with the help of Prudence Lewis, will give an interesting evening, including a fairy play, Maori legends and violin, cello and pianoforte trios. Uncle Jim has some more to tell you about Uncle Remus.

Saturday: "The Rovers" are coming to the studio to-night to entertain Radioland. There is to be a real camp, with lots of fun and adventures. Aunt Molly and Uncle Jasper have been invited to have camp tea with them.

Sunday: We are to have the Maranui Methodist Children's Choir, under the conductorship of Miss Vanston, in the studio this evening, with Uncle George taking the service.

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Reducing Overseas Times to N.Z.

The International Date Line



HE basis upon which time is computed is the day, being the average time taken by the earth to revolve once about its axis. A fixed point must be taken, and this, for civil purposes, is the sun.

The earth, being a sphere, can have its surface divided longitudinally into strips by lines coming from the centre. If each one were a degree apart, there would be 360.

Now, if the time taken by the earth to revolve on its axis once is divided into 24 equal divisions, called hours, it will be seen that it takes exactly 4 minutes for the surface represented by one degree to pass the fixed point. Looking at it from another angle, it may be said that if two places are separated by one degree there will be 4 minutes difference in times. If each degree adhered to its own time imagine the confusion that would exist when it is realised that a degree of longitude at the Equator means a distance of only 66 miles.

To overcome this difficulty, the world is divided into time belts of 15 degrees each, and so representing one hour. Now, for any system there must be a starting point, and it is generally considered the starting point of the earth's longitudinal measurement is an imaginary line that runs through London, or rather Greenwich, and through the Poles. If we called Greenwich 0 degrees and went round the world, we would have our degrees numbered from 0 to 360, but we stop in the middle, and, if we go westward from the mid-point, we speak of the longitude as being west of Greenwich, and if we are going east, it is so many degrees east of Greenwich. It can be seen then, that the local time for any time belt can be computed from New Zealand time. New Zealand, which lies between 166 and 179 degrees of longitude, or in the 11 hours' belt, should then be 11 hours different from Greenwich time. New Zealand, being a small country and in the middle of this belt, takes its time as 11½ hours ahead of Greenwich.

By revolving the globe from west to east, it can be seen that places to the east of Greenwich will be ahead in time, and those to the west behind. Thus we are 11½ hours ahead of Greenwich.

If the world were to stand still and we could fly round it, our local time would change as we passed each hour belt. We would start from Greenwich, say, at 0 hours (12 midnight), would pass over Europe, Asia and America until we came back to Greenwich again at 24 hours. But the world does not stop still, and in this time the world has turned once and at Greenwich it is the day after we left. So at some part of our journey we must drop a day. The meridian at which we pick up this day is the one opposite Greenwich, and is known as the International Date Line. When we cross it going from west to east we add on a day. When coming from east to west we drop a day.

JUST before leaving time belts it might be remarked that America is divided into four time belts, Eastern Standard time, which is 5 hours behind Greenwich, or 16½ hours behind New Zealand; Central Standard Time, 6 hours behind Greenwich, 17½ hours behind New Zealand; Mountain Standard Time, 7 hours behind Greenwich, 18½

hours behind New Zealand; Pacific Standard Time, 8 hours behind Greenwich, 19½ hours behind New Zealand.

When times are given a p.m. we must add 12 on to bring them back to universal time. A station closes down at 11.30 p.m. Eastern standard time. What is that in New Zealand time?

we are trying to convert New Zealand time into overseas times. What is 5.30 a.m. New Zealand time in Eastern standard time? We must now subtract to determine Eastern standard time, and we can do it by the ordinary methods of subtraction.

$$\begin{array}{r} 5\frac{1}{2} (+ 24) \\ 16\frac{1}{2} \\ \hline 12\frac{1}{2} \end{array}$$

which will be 12.30 p.m. Eastern standard time, really 30 minutes past noon. As we have to bring another 24 hours into the little equation we must go back a day.

To overcome this more or less difficult process of working out the times a mechanical device such as the DX clock can be used. This gives the New Zealand time for any other local time merely by rotating a disc. The date line here need not worry one a bit if he works the same way as in the equations. In finding out New Zealand times for the times of other countries, we rotate the disc so that the number of the hour in question is opposite the particular point or country. The arrow at "N.Z." points to our time. This is easy enough, but we must have some system of determining the date. The best plan is to follow the clock round the way the numbers go until the New Zealand time is arrived at. Do not, however, shift the centre disc or the arrow will not be right. If we pass 12 midnight we must add a day. Unless we go this long way round there will be a difficulty in date determination because it has to change at the points marked for Fanning Isles. If we want to bring New Zealand time to the time for other countries, work the opposite way to dodge the Fanning Islands, set the disc to the N.Z. time, and work back in an anti-clockwise direction until we come to the point marking the position of the town or country the time of which we wish to determine. If we pass 12 midnight, a day must be subtracted.

These remarks hold good for all places except between Fanning Isles and New Zealand, and as there are no broadcasting stations of any moment here they need not worry us. A little thought will soon indicate how their date is computed.

D.X. NOTEPAPER.

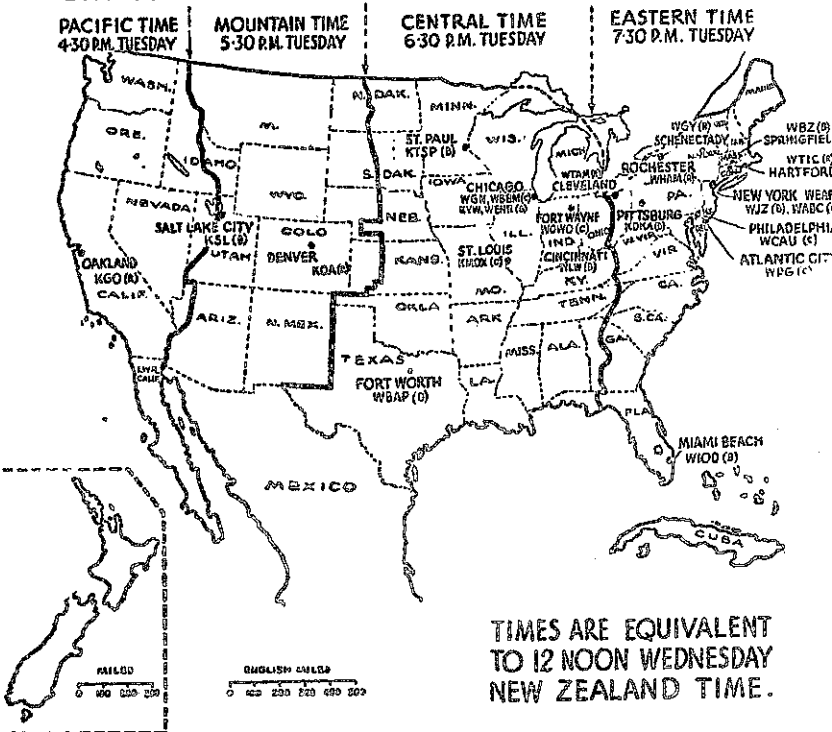
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UNITED STATES - DIVISION OF STANDARD TIME



TIMES ARE EQUIVALENT TO 12 NOON WEDNESDAY NEW ZEALAND TIME.

hours behind New Zealand; Pacific Standard Time, 8 hours behind Greenwich and 19½ hours behind New Zealand.

Time Calculation.

NOW, if we hear a station closing down at 1 a.m. on, say, Tuesday morning mountain time, what time would it be in New Zealand? Remembering that we are 18½ hours ahead, it would be 18½ + 1 = 19½ hours New Zealand time. If we name our hours the way we should, from 1 to 24, that time would be quite understandable, but we do not. We start at midnight and go on to 12 noon and then start back from 1 and work through the cycle again, only this time we call it p.m., so that 19½ hours would be 7.30 p.m. If the number in universal time is under 12, it is a.m., and if it is over 12 it is p.m..

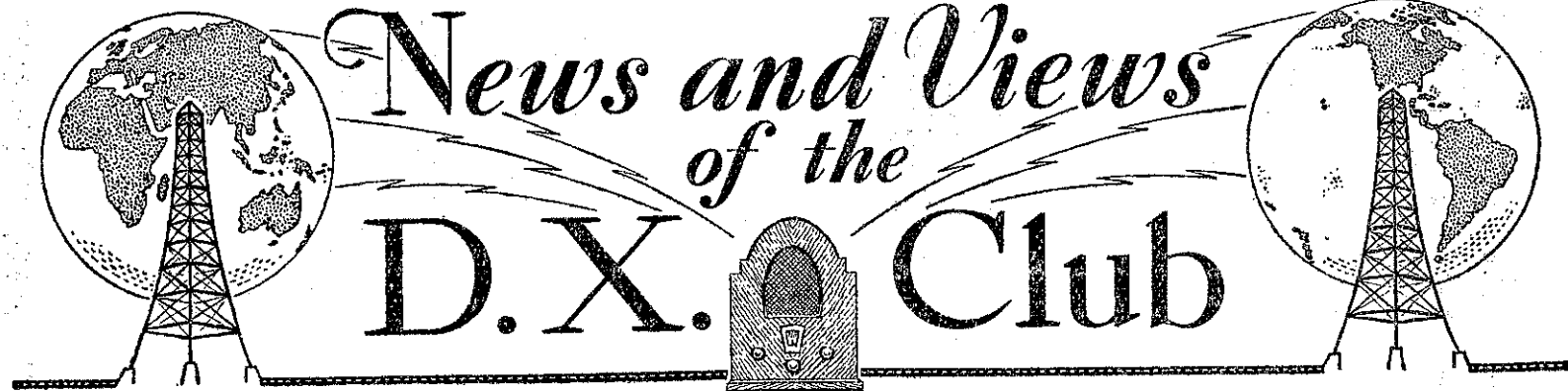
So far then our computations had not taken us into anything difficult. If we hear a station will come on the air at 10 a.m. Pacific standard time, we shall still add on the 19½ hours that we are ahead. 10 a.m. plus 19½ hours is 29½ hours, therefore taking

10.30 p.m. Eastern standard time is really 22 hours universal time. Add on 16½ hours which we are ahead, and this brings us to 39 hours. It is over 24, so we must subtract 24 and call the time the following day 15 hours or 3 p.m. New Zealand time.

If we know that G5SSW will commence their evening session at 8 p.m. we can easily find the New Zealand time. We are 11½ hours ahead, and must add that, remembering 8 p.m. is 20 hours universal time. 20 + 11½ hours = 31½ hours. Therefore we are in the next day at 7.30 a.m.

It might be mentioned here that mid-European time is 1 hour ahead of Greenwich, Eastern European, 2 hours ahead. A little difficulty enters in when

PASTILLES
for
COUGHS and COLDS



News and Views of the D.X. Club

Answers to Correspondents

"Red Bird" (Wellington): The verse you submit is quite good, though rather long for a club motto.

DX72W (Masterton): Quite a number of DXers use battery-operated four-valve Hammarlund-Roberts receivers and get quite good results.

"Sunny" (Greymouth): You do not give sufficient particulars of the stations you want identified. The most important points are: Date heard, time, frequency (or wavelength), and items heard, identifying these where possible.

F.J. (Tikorangi): Yes, the trees shown in your sketch would have a screening effect on your aerial, though probably it would only be slight.

D.W. (Kaikoura): Why not enter for the "Ellis" cup, to be competed for by owners of battery sets using not more than five valves? Entries close on December 31 next.

DX17HB (Gisborne): Your log is quite fair. Why not get those Americans verified, and enter for the "Ellis" Battery Cup? KMOX, St. Louis, Missouri, is correct. Attention was drawn in last week's issue to the ambiguity which arises when correspondents quote stations as being so many degrees "above" and "below" other stations. When using this method of indicating station locations correspondents should state whether their receivers are graduated in kilocycles or metres.

"Meppo" (Granity): On August 8, at 8.55 p.m., N.Z.S.T., I heard a loud heterodyne on 2XX's frequency, and then heard a soprano solo with 3KZ on one side and 2MO on the other. I presumed this to be 2XX, and about two weeks later received a verification with a note: "Soprano solo was Toselli's 'Serenade,' by Gloria Swanson."—DX25NW (Westport).

Addresses and Addresses Wanted

"Sunny" (Greymouth): 4AW, A. E. Walz, Cur. Eton St. and Sandgate Road, Nundah, Queensland. 3HB, H. L.

Byrne, 21 Wolseley Grove, Brighton Beach, S5, Victoria. Address also wanted of experimental station 3EFO, Victoria, heard on approx. 1240 k.c. (242 m.) at 12.38 a.m.

Would **"Meppo"** (Granity) please forward his address?

Identification Wanted

Station heard from 5.50 to 6.10 a.m. on September 14, strength R4, on approx. 1170 k.c. (256 m.). Guttural speech was heard most of the time. Also two stations on approx. 1125 k.c. (266 m.) respectively transmitting records from 1 to 1.30 a.m. on September 19. Station on former frequency referred several times to "GML, listeners." I thought GML was on 1010 k.c. (297 m.).—DX24OC (Dunedin).

Australian station heard on September 19.—(What time?—Ed.)—between 3GL, Geelong, and 3KZ, Melbourne. Items heard included "Wonderful Raindrops" and "Cabin in the Hills." Strength R6.—DX69OC (Gore).

Station heard half a degree below 3KZ, Melbourne, about 1400 k.c. (214 m.). Following was heard: "—, Colombo. The time is now half-past nine." Then followed a short talk, and then: "The next item will be played by the Columbia Dance Orchestra." This was heard at 11.25 p.m. on September 19. On September 20, at about 10 p.m., another station was heard on 90 (7ZL, Hobart, at 87), broadcasting dance music.—DX65OC (Waimate).

Station heard at 6 a.m. on September 20, a degree above 2ZE, Eketahuna, and 1ZML, Manurewa, 247.9 m. (1210 k.c.). A record which sounded like a football match was being played. He evidently signed off after this. I thought I heard someone counting "One, two three, four," etc.—DX72W (Masterton).

American station on dial reading 714 (4QG 694, 5CL 724), heard on the evenings of September 13 and 20. He signed off at 5.30 p.m.—DX17HB (Gisborne).

[Please give fuller particulars.—Ed.] American station heard at about 9 p.m. on August 22. When closing down at 9.30 p.m. announcer stated he was

broadcasting on a frequency of 970 k.c. (309 metres). The following items were heard: 9.10 p.m., "Silver Threads Among the Gold." 9.13 p.m., "Night Time in Nevada" (?). 9.15 p.m., "The Coffee Kid." At 9.30 p.m. he closed down with the item "Farewell to Thee," and immediately after 3BO, Bendigo, came on the air on the same frequency.—DX75W (Ohakune Junction).

Australian heard after 12.30 a.m. on September 17, on approximately 214 m., broadcasting records. He was a fraction

The DX Club More Members Wanted

The DX Club now has a membership of over 400, a total which must be very gratifying, both to the proposers of the club and to all members, for it shows that our organisation is serving a definite purpose in catering for the needs of DX enthusiasts all over New Zealand.

We do not want the total to stop at this, however, because the more members we have the more powerful will the DX Club become, and the greater will be the benefits conferred on members. If you know of anyone interested in DXing, we would be pleased to receive their names and addresses so that we may forward them full particulars of the club. When you write your next letter to the DX page or the "Radio Log," jot down two or three names and addresses at the bottom. We will do the rest.—The DX Editor.

below 3HB, Brighton. Announced as follows: "Hullo, hullo, hullo, this is VK—."—F. J. (Tikorangi).

American on approx. 241 m. (1240 k.c.) heard from 1.10 a.m. till 1.30 a.m. on September 18. Items heard: 1.10 a.m., song by male, followed at 1.14 a.m. by further vocal number by woman. 1.17 a.m., announcer gave time and his name—Eddie Moore. I think he mentioned California. Then followed another song by woman mentioned above, and at 1.21 a.m. orchestra playing waltz, "Hawaiian Lullaby." Announcer spoke very quickly and repeated himself when giving time. Strength R4, fading badly.—DX72A (Auckland).

Station heard from 8.5 p.m. on September 24 on approx. 78 metres. Woman spoke until 8.22 p.m. and then a man until 8.31 p.m. This was followed by music and singing, and a further talk until 8.47 p.m. Station appeared to be Japanese.—P.C. (Petone).

Station on 815 k.c. (368 metres) heard at 5.30 a.m. on September 22 broadcasting orchestral music, which sounded Japanese, with vocal refrains. Also station on 1280 k.c. (234 m.) heard at 10.42

p.m. on 21st, when a band item, "William Tell," was broadcast by courtesy of the Indian Cycle House. Another station was heard at 5.15 p.m. on September 20 on 1150 k.c. (261 m.), when "Love Lies" was broadcast. A siren-like whistle followed each announcement of the call.—DX7W (Marton).

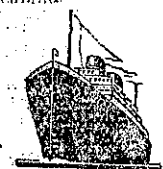
What American on 1140 k.c. (263 m.) has an announcer named Paleale? Also, what American on 1320 k.c. (227 m.) advertised for Universal motor-cars? American on 1150 k.c. (261 m.), below 4BC, heard September 13. Most of the items heard were male solos. Held till 6.30, when I think he closed down. Also one on 1500 k.c. (200 m.). A number of orchestral items were heard up to 7.15 p.m. on Sunday, 13th. The same evening station on 920 k.c. (326 m.) between 3UZ and 4IK was heard till 7.40 p.m. broadcasting a concert programme. Also station on 1290 k.c. (approx.) heard on 14th on following items between 7.10 and 7.30 p.m.: Organ, humorous song by man with piano accompaniment, and also two orchestral selections. Announcer spoke between items and seemed to be advertising—"Southlander" (Invercargill).

Following is a list of early morning stations which I have been unable to identify:—Station on 790 k.c. (380 m.) on KGO's frequency. This is one of the easiest Europeans to log. Generally comes in at good volume and some splendid piano and orchestral selections have been heard on several mornings. Station on 1225 k.c. (244 m.), approx. Band selections generally heard. Language is, or is similar to, German. Station on 1260 k.c. (238 m.), approx. This station comes in at good strength, but is not heard so frequently as some of the other Europeans. Generally broadcasts band items. Station on 1190 k.c. (252 m.), approx. I have heard this station

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only twice between 6.30 a.m. and 7.30 a.m. However, one item was "Tip-toe Through the Tulips." Station on 655 k.c. (458 m.), between 4YA and 2FC. This station also comes in with good volume. Generally orchestral items, but speech is hard to understand, although I think it is a foreign station. Station on 800 k.c. (333 m.) below the Belgium station on 887 k.c. Speech to me appeared to be very like French. Perhaps Mr. Jenkins, of Masterton, would be kind enough to help me with these. Also American station on 895 k.c. (450 m.) slightly above KHJ, heard broadcasting orchestral selections on Monday, September 14, between 6.30 and 7.00 p.m. Another American on 1470 k.c. (204 m.) broadcasting a programme consisting mainly of orchestral selections. Closed down about 7.30 p.m.—DX40C (Invercargill).

American on approx. 1030 k.c. (291 m.) heard at 11.15 p.m. on September 24. Mentioned one item, "Springtime in the Rockies," was for "friends down in Missouri."—DX1W (Hataitai).

Stations Identified

B.W. (Stratford): V.K., 3GK, Seddon, Melbourne. I heard the same transmission. 3HA, Hamilton, 1010 kc. (297 metres). 200 watts. Western Victoria, Broadcasting Co., 1 Gray Street, but I don't think they have commenced yet. "Big Ben" (Auckland): Your station, 6WF Perth, was correctly identified, but what you heard was a broadcast of pony racing, held every Saturday. DX9A (Mangere): Twin station of JOAK, Tokio. KHQ, Spokane, Washington, can be picked up on the same frequency almost any night. DX46A (Cambridge): Your station appears to be WLTH, Brooklyn, N.Y., 1400 kc. (214 m.).—J.P.C. (Palmerston N.).

DX360C (Timaru): Station on 940 kc. is KGU, Honolulu.—DX540C (Dunedin). "Maroon" (Napier): 6WF Perth, on 690 kc. (434 m.).

H.F.A. (Masterton): Canadian station on 1210 kc. (248 m.) has been heard of late, and gave its call sign as CJOR. After each item clapping is heard. DX46A (Cambridge): On September 6 I logged WDAG, on approximately 1410 kc. (213 m.), and he stated that he would like reports from DX clubs. He mentioned Californian clubs. One item also heard was "Stars and Stripes" march. Closing item was "Au Revoir—Pleasant Dreams." Perhaps this is your station DX5HB (Hastings): Mexican station XEW has been heard several Sunday nights on 910 kc. (330 m.). Call sign was given clearly in English.—DX10C (Timaru).

B.W. (Stratford): 3GK comes in on approximately 1480 kc. (203 m.). Station just below 2WL heard with lady announcer is 3JB, Glenmariff. I am doubtful of 3JB's location.—DX25NW (Westport).

[3JB is operated by J. R. King, "Glenmore," Balwyn Road, Balwyn, Victoria.—Ed.]

DX Topics

DX Jottings.

ON September 19, at 11 p.m., KFKB, Milford, Kansas, on 1050 k.c. (286 m.), was heard at R7 to R8 on an early morning programme. An early morning station on 276 m. (1085 k.c.) was heard recently. "Konigsberg" was all that could be recognised of the call. 7LA, Launceston, 2WL, Wollongong, and 2AY, Albury, are three Australian "B's" which may be best heard at 9 p.m.—H.F.A. (Masterton).

DX-ing With the Beverage.

"HOPEFUL" (Auckland): The following is my experience with a Beverage aerial:—I have a "L" aerial, 44 feet

high at both ends running at right angles to a 110,000 volts transmission line, four chains away. On wet or windy days the noise is unbearable. Just lately I have erected a Beverage aerial, 15 chains long and 8 feet high, running almost parallel with the transmission line and pointing towards America. I find that there is not now near as much noise on the set on windy or wet days, and an all-round increase in volume on distant stations was noticed. Even though this aerial is direc-

American Reception Table

The following is a list of American Stations showing relative strengths (R1-10) received from 5.30 to 8.30 p.m. on September 20.—H.F.A. (Masterton):

KGMB, Honolulu	9
KFOX, Long Beach	8
KFI, Los Angeles	8
WFAA, Texas	7
KNX, Hollywood	6
WTAM, Cleveland	6
KGER, Long Beach	5
WENR, Chicago	4
KTAB, San Francisco ...	2
KMTR, Los Angeles	2

tional all the Australian and the YA stations come in exceptionally well. Curiously enough, the set is not so selective on 3YA and 1YA, but is very much so, for some reason, on 2YA.—DX5HB (Napier).

European Calls Wanted.

COULD not the list of European stations be made a little clearer? For instance, what are the calls of these stations? Perhaps some of the DX members could supply fuller particulars.—DX36A (Otorohanga).

A New Canadian.

ON September 18 I picked up a Canadian station on 1210 k.c. (248 m.), giving the call "CJOR, Sea Island, British Columbia." It was first heard at 7.45 p.m. and held until 8.10 p.m., when an Australian station came on the air and blotted the Canadian out. Signals were never below R7 and occasionally increased to R9, with medium Q. and R.N. Did any other DX'er pick up this station? On September 20, at 4.30 p.m., 1ZQ and 2ZM were heterodyning badly. The latter was testing. I hope this will draw the attention of the owners of these stations. The writer will be visiting Wellington early in November, and would like to call on members of the club during his stay there. Would members who would like to get in touch with me drop me a line and forward their complete address. I will make a stop at Palmerston North if J.P.C., "Amazon," and other P.N. DX-ers would like me to look them up.—DX1T (S. Ellis, Okato, Taranaki).

3RU's Schedule.

THE following is the schedule of VK3RU, taken from a recently-received verification card. He operates on 195m. (1515 k.c.). Schedule: Tues. and Thurs., 7.30 a.m. to 8.30 a.m.; 1 a.m. to 2 a.m.; Sat., 7.30 a.m. to 8.30 a.m.; Sun., 9 a.m. to 11.30 a.m.; 2 p.m. to 3.30 p.m.; 6.15 p.m. to 7.15 p.m.; and 12 p.m. to 1.30 a.m. Times given are N.Z.S.T. DX10A. Shortwave station RV15 is located at Kharbarovsk, Siberia, Russia, and wavelength is 70.2m. (DZ23MC (Christchurch)).

Particulars of 4ZL.

ON September 2 I heard 4ZL, "The Voice of Service," Dunedin operating on their official frequency of 1220 k.c.

(246m.) with an output carrier power of 50 watts. He asked listeners to ring 23—823, and said he hoped that some of the more distant listeners would report by letter. He also stated that he would be on schedule in about a week's time. One number heard was "Sometimes I'm Happy." 3ZE's schedule was given recently in DX Topics as Fri., 12-2 p.m., and weekdays 8-10 p.m. This should be Wed., 8.10 p.m. They were on the air from 9.15 p.m. to 11.15 p.m. on the 12th. The correct schedule of 3ZR is as follows:—Mon., 7-9 a.m. (Tues., Thurs., and Sat. as in "Radio Log"); Sun., 3-4.30 p.m. (4-4.30 p.m., Silent Fellowship Service), 6-6.30 and 7.9 p.m. The Japanese station heterodyning 2FC, Sydney, has been more in evidence lately.—"Third Grid" (Greymouth).

WLS now 50 k.w.

I RECENTLY received a verification from VK3RG, Castlemaine, which operates on 1220 k.c. (245m.). The operator, Mr. Blake, sent me a photograph of the interior of his shack, showing the set and his cards. He gave his power as about 50 watts input, and said that he also worked quite often on 40 metres. He also informed me that 3BY, Melbourne, is classed as the best 200-metre band amateur on the mainland. I wrote the latter station, enclosing postage, and received a reply very promptly within three weeks. Station KDB, Santa Barbara, sent an Ekko stamp, and stated that they had recently installed a new transmitter with 100 per cent. modulation, but as has been remarked by other DXers, his local announcements are still hard to read. KFWI, San Francisco, states that their new l.k.w. transmitter is on the air from Sept. 2. In a letter from WLS, Chicago, they add a P.S.: "WLS is now a 50 k.w. station. That is why they come in as well as WENR. My second card, from 2AY, Albury, had written on it: "Kindly mention advertisers when furnishing reports," so evidently the Australian B's would appreciate this little detail. On Sept. 13 I heard Japanese station JOIK commence transmitting, by giving a series of shrill notes—probably a time sig-

nal. JOIK was then announced twice, and music commenced. I have found that station KELW, Burbank, California, is very hard to get some nights owing to interference from Japanese stations, even soon after he commences at 8.30 p.m. I received him very clearly on August 2 at 12.30 a.m., after the Jap. station had closed down, but QRN was very heavy. He faded out very suddenly at about 12.50, probably because dawn was breaking there.—DX3NV.

Unfortunately your letter arrived several days too late for inclusion in the "Radio Log." Any future correspondence should be posted to reach our offices not later than the 17th of each month.—Ed.]

Amateur Australians.

LATEST loggings include 3RU, Balwyn, on approx. 1500 k.c. (200 m.), and 3GK, Melbourne, on approx. 1490 k.c. (201 m.). Both stations were testing.—G.W. (Kaikoura).

A Modified Beverage.

I BELIEVE it is generally assumed that a long directional aerial will give improved results, and I have proved this to my own satisfaction. I had a 200 feet length of thin builder's wire used for tying light reinforcing iron, and I slung it temporarily from a 50 feet tree to my permanent mast. It certainly gave the results anticipated. I am wondering now what the result would be if I erected an aerial oblong in shape, approximately 500 feet in length, with a mean width of 100 feet, at an average height of 50 feet. It appears to me theoretically sound, and should give wonderful results. Of course I realise that selectivity would go by the board. Also I am sure it would be of interest if DX-ers would write in describing the types of aerial they are using.—G.W.B. (Birkenhead).

[There appears to be no serious drawback to the rather unusual type of aerial you propose to erect, though it would possibly not give as good results as would a Beverage aerial of the same length. We cannot see its particular merits. Should you decide to erect it we would

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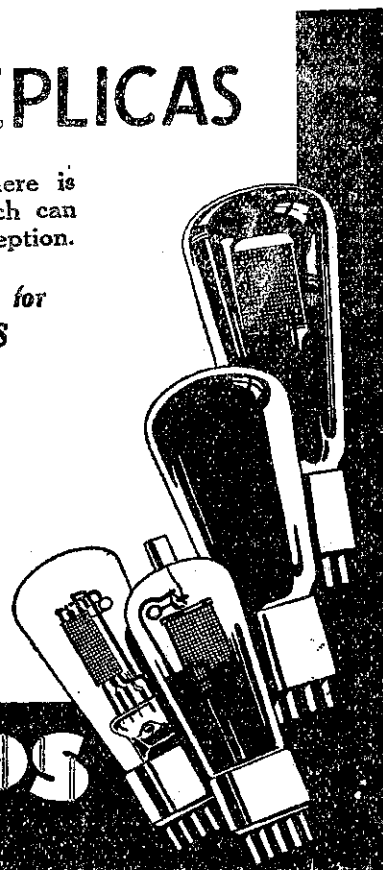
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F 704	(250)	50/-
1560	(280)	12/-
1562	(281)	45/-

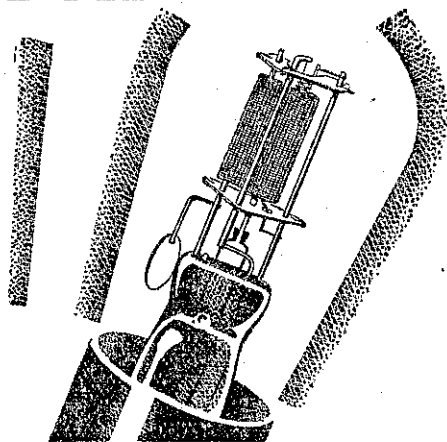
W90R.

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be very interested to hear of your experiences.—Ed.]

Advice on Sending in Reports.

WOULD you please give us space to state that DX reports will not be answered unless accompanied by a postage stamp. This station receives any number up to or over 50 reports a week. The cards cost about 1d. each, and adding a penny postage to this and time in sorting and replying it will be seen that DX-ing is a fairly expensive sideline. Some of the reports are absolutely useless. For example, one report stated that there was no QRM nor QRN. Strength was R8, yet we were QSA2 only. (No fading.) This is ridiculous, as obviously an R8 signal on a clear night would be QSA5. Yet another report stated that we were QSA7, and the QSA signals only go up to 5. Hoping this will put a few DX

the same proceedings as mentioned by "6X." Transmission was at fair strength and perfectly clear.—C.V.B. (N. Auckland).

Recent Loggings.

RECENT loggings include KOIN, Portland, KMTR Hollywood, KOL and KJR Seattle, KROW Oakland, and KFSD San Diego. KFOX comes in at R3 about 9 p.m. on his morning session, but it is hard to keep him away from 2NC. KFI comes in at between R7 and R9 practically every night. I agree with "Wainui" (Gisborne) about the DX report paper. In reporting on a station from which one has been able to catch only a few items, etc., over a period of weeks, it does not give one much space to describe items heard, and also the space for the time and date received is useless in a case like this. The best solution is, I think, for the DX'er to stick a DX

Are YOU a Member of the DX Club?

If not, post your application to the DX Editor, Box 1032, Wellington, enclosing 2/6 to cover cost of badge and certificate (post free). Subscription to the "Radio Log"—the DXer's own magazine—is 6/6 per annum, post free. Book your order now and receive the latest in DX news.

enthusiasts on the correct track.—Radio 4ZP, Invercargill.

[We do not agree that R8, QSA2, is an impossibility, even discounting atmospherics and assuming transmission to be steady. Readability is to a large extent dependent on the quality of transmission.—Ed.]

DX Notes.

WHEN is KGIR likely to be heard? A few Americans seem hard to get as there are other stations occupying the same channel. One I have been trying to log for a long time—KOIL—was logged on September 23. Station KSCJ was heard testing last week, coming in with good volume. CJOR, a Canadian on 1210 k.c. (248 m.), has been heard of late with good volume.—DX10C (Timaru).

Frequency of XEW.

THE following extract from a verification from XEW, Mexico, will settle the dispute concerning this station's frequency:—

"We broadcast from 8 a.m. to 11 p.m. (Saturdays until 1.30 a.m.), Mexican standard time. Our wavelength is 910 k.c., or 329.6 metres, and for the short wave, 6000 k.c., or 50 metres."

"Meppo" (Granity), 2XN Lismore, is still operating; schedule, Monday, Wednesday, and Saturday, 8.30-9.30 p.m., N.Z.T. Unless you possess a very selective set you will find him hard to log, as there are so many stations jumbled together near his frequency. G. B. Boy (Dunedin): Your information is not quite correct. The new relay station is to be 5CK, Port Pirie, wavelength 472 metres (635 k.c.). It will commence testing any time now. Another B station, which should appear on the air early in October is 6PR, Perth, Frequency, 880 k.c. (341 metres). Power 200 watts. This will be a sister station to 3BO, Bendigo, and is for Nicolson's, of Perth. B.W. (Stratford): 1ZQ is back on the air again. I hope to have better luck with my second report. I have just received verification from an Australian B after my third attempt. They state I should have received their card and two stamps enclosed in my second letter long before this. I am beginning to think there is something wrong with the postal service in Australia.—J.P.C. (Palmerston North).

A S.W. Relay.

IN S.W. notes of September 11 issue, a listener (6X, Wellington), heard on 25.685 metres the proceedings of the opening of a new American broadcast station, WIBA. He asks if any DX'er heard WIBA on this broadcast. I did not hear this station direct, but through WOAI, San Antonio, Texas, and heard exactly

sticker on the top of ordinary writing paper. The DX report sheets are ideal for reporting stations where one is fortunate enough to catch the names of several items, etc.—"Maroon" (Napier).

[When reporting on a series of transmissions from a station it would be hopelessly confusing to the operators if you recorded all particulars on the one report sheet. A new sheet should be used for each separate transmission.—Ed.]

DX News from America.

RECENT loggings: KUOA, KGB, KWKH, and CJOR. The latter was received on September 23 on 1210 k.c. (248 m.). He was relaying from the Venetian Cafe in Vancouver, B.C. Reception RT-8 until 2YH, New Plymouth, came on the air. According to latest call book this station operates on only 50 watts power. H.F.A. (Masterton): Perhaps this is the station that you heard on September 12. An authoritative verification from WLAC, 1470 k.c. (204 m.) states that 27 letters had been received from N.Z. DX-ers, who heard special church services. Twenty-seven "new Testaments" are to be mailed. Extract of letter from KFBI, 285 m. (1050 k.c.): "This station was formerly KFKB, owned and operated by Dr. Brinkley, from whom we purchased it and took possession on February 20, 1931, changing the call letters to KFBI on May 1. We operate on 5 k.w., 1050 k.c. (285.5 metres). We have just completed the installation of a new rectifier system, replacing our old generators. This is the latest thing in broadcasting equipment, and we believe will give you better reception than you have ever had before from this station. This station is owned by the Farmers and Bankers' Life Insurance Co.—H. K. Lindsley, President."—DX1HB (Waipukurau).

Some Curious Spelling

THE B.B.C. letter-file holds the following renderings of the word "selectivity":—Celektivety, Cilactivity, Chiberty, Elactivity, Inactivity, Lacktivity, Sinevilitvity, Silvity, Seractivety, Telectivety, Seelctiffity, Captivity, and Selactivity. Another listener praised his set's "Select Tiverty": but perhaps the most remarkable was the set whose "Civic tactivity" was so noticeable.

QUESTIONS: ANSWERS

FRANK KEE



The Technical Editor will, through these columns, be pleased to help readers experiencing trouble with their sets. Queries are limited to three—for more than this a shilling fee is charged, and a similar fee is payable for queries answered by post. Supplying layouts, circuits and solutions of intricate theoretical problems is beyond the scope of this service.

A coupon must accompany all requests for information. Non-appearance of the coupon in any issue cannot be regarded as a reason for its not being used.

Address all queries, The Technical Editor, Box 1032, Wellington.

H. A. T. (Kaitia). We cannot pass any comments about your set as one has not found its way to the laboratory. It appears, however, that you are getting fairly good results. You could use a short-wave converter on this, and we advise you to inquire from some of the better known dealers to find out the cost of same.

PETRYGOTUS (Dunedin). Your circuit is correct. It is possible that you have the connections to the detector coil reversed, and it would be well worth while trying them round the other way. If there is no improvement then revert to the original connections. If the adapter does not oscillate over the whole ranges, add a few more turns on the plate coil. You will find much to help you in the series of articles on the superheterodyne now appearing in the "R.R."

B. T. (Christchurch). I cannot apply "B" voltage to my commercial six-

valve set. I have had transformers and valves tested, but when I use the set without bias the "B" battery runs down rapidly. There is no volume.

A.: Evidently there is a break in the grid circuit of either the first or the second audio valve. Have the secondaries of your transformers tested. Check between GB of your transformer and the "C" battery. You may possibly find a break-down in your cable. Also check over the connection between "G" of the transformers and the valve. See that the valves are tight in their sockets. Go over the contact of the first audio jack, if it is present.

2. How is this set neutralised?

A.: The screw type condensers are the neutralising ones. Commence with the third radio valve, that is the one nearest the detector by tuning in to a station on about 3YA's frequency. Remove the valve and cover one of the filament legs with silk or tissue paper to prevent it coming in contact with the socket. Replace it in

the socket and adjust the balancing condenser nearest it until the signals are at minimum. Now take off the silk, replace the valve and repeat the performance with the two other valves. The two mid-set condensers are to balance up on the main tuning condensers. You merely tune to a station about the centre of the dial and then adjust the two midsets until the loudest volume is obtained. In this case the valves are left in a normal operating state.

3. Where do I connect the earth-wire, as there is no earth terminal?

A.: To the "A—", "B—" and "C—" connection.

A. E. S. (Wakefield).—Your question is outside the scope of Questions and Answers. Explaining how to obtain and control regeneration on a commercial receiver is the job of an expert, and the chances are that even if we told you what to do you would not get satisfaction. In the first case you would throw the condensers out of alignment, and that would offset any gain brought about by regeneration. Often you can make a set of your type oscillate by carefully balancing the condensers.

RADIO (New Plymouth).—What is the capacity of the midset condenser in the aerial circuit?—**A.:** .0001 to .00005.

2. Why should I not arrange the set for complete sub-panel mounting?

A.: There is no reason whatever. If you depart from the layout, see that you get the vital wires short.

3. Why are the shorting condensers used across the .0001 condensers?

A.: In order to use the set for broadcast or short-wave work. When the .0001 condensers are in the circuit the effective capacity of the tuning condensers is reduced to about .0001, and this is admirably suited for short-wave. When the condensers are shorted out they assume their ordinary capacity.

A. C. E. (Wanganui).—Your queries were answered in the "R.R." dated September 18.

E. H. L. (Waitara).—No doubt power interference is causing the trouble about which you complain. It is strange, however, that you can use your set in the power-house and get better results than you can a few hundred yards away. The power-house may be shielding the transformers to some extent, or it may be a case of "skip distance." Take off the aerial and see what happens then. If the noise persists, perhaps to a less degree, install the filters. Better results can probably be obtained by using shielded cable for the down lead and earthing the shield to a separate earth.

SHIELD (Auckland).—I have a power pack delivering voltages from 45 to 300. Would this obviate the use of resistance in the a.c. s.g. short-wave set described in the "Radio Guide"? **A.:** You could take the lead direct, but it is far better to make the set exactly as described. By using long separate leads you are liable to get back coupling and other unsatisfactory results.

2. Could my variable condensers of .0002 and .00045 be used with fixed condensers to reduce the capacity?

A.: Yes; a .00023 will be required in series with .0002 to reduce the capacity to .00005. The .00045 to be made suitable for the tuning circuit will need .00022.

3. Could push-pull amplification be effect-

ed using an ordinary audio transformer as input with resistances between the grids and cathodes to earth, and a tapped choke as output?

A.: Yes; the arrangement should work satisfactorily.

NEMO (Masterton).—Would it be a big improvement to the H.R. set to incorporate a stage of r.l.s.g.?—**Yes.**

2. Could you let me have "Detector's" address to find out what results he obtained?

A.: If you send a stamped and addressed envelope for a reply we shall send it to you.

FALCON (Remuera).—Is there any way in which I can convert my seven-valve battery receiver to an all-wave set without the use of an adapter?

A.: There is no practical way of doing so. We advise you to use the adapter.

2. Would I be able to bring in England, etc., on the short-wave?

A.: If your adapter is a good one, yes.

3. I am using 201A valves. Are there any other suitable valves?

A.: Yes, the new 221's are up-to-date 201A's.

L. P. O. (Bluff).—Would my reception be improved if I erected another 40 to 50 feet pole alongside the house? The present aerial slopes down to a point where the lead-in enters the house 16 feet from the ground.

A.: Decidedly yes; it is unwise to slope your aerial down to the point where it enters the house. Always use a second mast.

RECEPTIONIST (Wellington).—Would converting my aerial from an "L" type 80 feet or 90 feet top span to a "T" make it more selective?

A.: Yes; it would shorten its effective length to about 40 feet plus the lead-in, thus reducing the pick-up.

2. What type of earth do you recommend when using a set on the second floor?

A.: It depends. If you are near the sink or water-tap, connect to that. Otherwise

Information Coupon

(To be used with all requests for information.)

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.

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"Radio Record" DX Log, 5d.

"Break-In" (N.Z.), 4d.

"Cameron's Sound Motion Pictures Encyclopedia," 18/6.

"Wireless: The Magic Carpet," 5/- (Technical Editor "Radio Record" says no set owner should be without it.)

"All About the All-Electric," 1/8.

"How to Electrify Your Radio Set" (U.S.A.), 1/9.

"Principles of Radio," by Henney, 22/6.

"Practical Radio Repairing Hints," by Rider, 13/- (Don't miss it.)

"Broadcast Reception" (Theory and Practical), by Pritchard, 11/8.

"Radio Amateur Handbook" (Handy's), 8th edition, 5/3.

"A.R.K.L. Log of Amateur Stations," 2/-.

"Radio Log" (N.Z. Sept.), 7d. per copy.

"Theory of Radio Communication," by Filgate, 12/-.

"Principles of Radio Communication," by Morecroft, 41/6.

"Elements of Radio Communication," by Morecroft, 19/-.

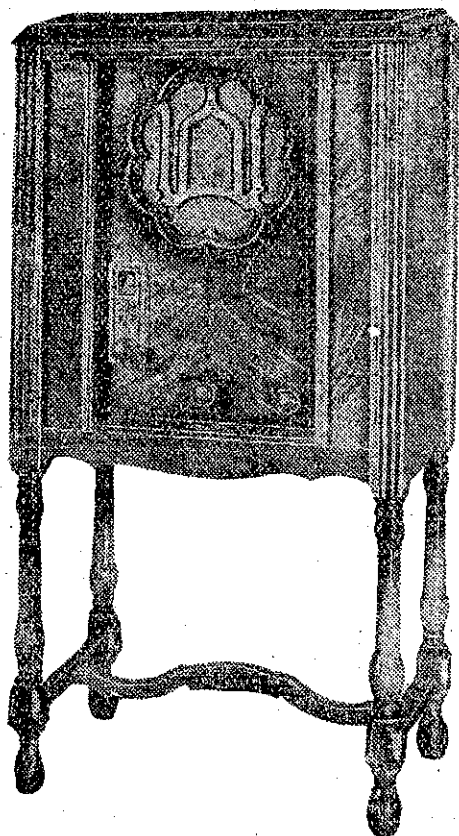
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run a lead of 7/22 wire by the shortest route to the ground.

KIWI (Waikato).—Can you refer me to an "R.R." with instructions for building a simple four or five-valve superheterodyne set?

A.: Such has not yet been described. One will be described in the very near future.

2. Could you recommend suitable valves, with four-volt filaments, that would suit my present set? They must be suitable for a super-het. later on.

A.: Screen grid valve E442S, for ordinary a.c. valves, B409. Output valve, B443.

KENTY (Kopaki). Must "B" accumulators be discharged before adding new acid? What is the specific gravity of the new acid?

A.: On the contrary they must be fully charged before doing anything to them. You add new acid until the specific gravity reaches 1250.

2. My cells show full hydrometer test, but no meter test and they discharge very quickly.

A.: There is a defect in the battery itself. The fact that the specific gravity is correct does away with any trouble arising from the solution. Your best plan would be to have the "B" accumulator overhauled by an expert.

3. The plates have blistered. Do these need replacing?

A.: We think that your accumulator is coming to the end of its useful life. When the plates begin to blister it is nearly time the accumulator had new plates or was relegated to the scrap-heap.

HILLTOP (Wellington). My four-valve A.C. set is humming badly. Could this be overcome by smoothing condensers? If so, of what value and where should they be inserted?

A.: Hum may be due to several causes—i.e., see the article in the "R.R." on April 10 on tracing hum in A.C. receivers. We advise you to read this article and make the tests suggested. If you cannot trace the source of the hum the best plan will be to take your set to an expert.

J.P.U. (Auckland). How many turns of J. 28 d.s.c. on a 2-inch former will be necessary for the r.f. coil of the "Ranger Three" if a .0005 condenser is used?

A.: If you will refer to the article in question you will see the information given there. The tapping for the aerial will be brought in three turns lower than for the .00035 condenser. The usual value for a neutralising condenser is about .00003. Just ask your dealer for a neutralising condenser and you will get the right thing.

PIRINOA (Kaikoura). My telephone picks up signals from a wireless set even when the receiver is down. Can you explain?

A.: The signals are being picked up either from your aerial (a type of re-radiation) or from the earth. Altering the direction of the aerial and installing a different earth would probably have the effect of overcoming the trouble.

2. Your combination of valves is good. You might, however, use the 221 type of valve instead of the first 201A.

3. Would an extension of 70 feet with earphones to a whare have any detrimental effect?

A.: No; but it would be advisable to install an output filter comprising an output transformer or a choke and condenser between the set and the lead to the whare.

STATIC (Westport).—We regret we do not have blue prints of the "Outspan Five." Full details were published in our issue of February 20, and have not been repeated or elaborated in any way.

WIRELESS (Oamaru).—Where could I obtain a short-wave adapter for my six-valve battery set?

A.: A suitable short-wave adapter was described in the 1929-30 "Radio Guide." You could have this made up or you could obtain a commercially-made short-wave adapter. Of these, the Add-phone is the only one tested, and it has been found entirely satisfactory.

2. What are the particulars of the DX Club?

A.: We are sending on to you a circular telling you all about it.

3. Could you tell me how to fit earphones to my set without disconnecting the speaker?

A.: You connect them to the two terminals now going to the speaker and use a small spring to grip the phone terminals, or you can just wire them on in some way.

A MATEUR (Auckland). Would A415 be suitable for detector and B405 for power-valve in the "Night Hawk Two"?

A.: A415 will be quite suitable for detector. B405 would make a good second valve. You could, however, use A409, if you wished.

2. Could you give specifications for one broadcast and three shortwave coils for this set?

A.: They have all been given in the "Radio Guide."

3. Is it preferable to have the lower end of a sloping aerial toward or away from a station one wishes to receive?

A.: It is immaterial.

H. H.M. (Dunedin). Are the coils for the "Sparrow Hawk" one the same as for the Differential series?—Yes.

2. How would I add an extra stage to the "Sparrow Hawk" one?

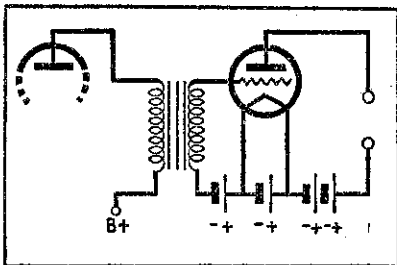
A.: An extra stage to the "Sparrow Hawk" one would be the same as the "Differential" or "Night Hawk" two.

K. A.D. (Kelburn). If I added a second stage of audio amplification to my crystal and valve (with three-valve performance) would the result be old-fashioned as compared with the "Differential Two" and "Night Hawk Two," etc.?

A.: No; you would have a really satisfactory set. Certainly the swinging coil method of obtaining reaction has gone out of date, but it has yet very many good points.

2. How would I connect up the extra transformer, 31-1 and valve?

A.: You take a wire from the plate terminal of the valve now in the set to "P" of the transformer. "B plus" of the transformer you take to the detector voltage,



whatever that might be, or to the voltage that was originally applied to the other phone terminal. "G" of the valve is carried to the grid of the extra valve and "G.B." to the negative of a suitable "B" battery. "B plus" is connected to "A minus"; you take "A minus" and "A plus" to the valve socket; take the plate to one terminal of the phones. The other terminal you connect to the highest "B plus" voltage available. A diagram illustrates these connections.

2. Could I use a screen-grid valve for my second valve?

A.: It would not be satisfactory to do so. You would have to employ resistance capacity coupling, and this would offset any gain due to the extra lift in the screen-grid valve.

199 (DUNEDIN). Could I use the new 230 valve with 231 in the last stage of the Radiola 20?

A.: You may have some trouble with the neutralisation, but once it was balanced up it would certainly be an improvement.

2. Would these valves operate on an eliminator successfully?—Yes.

3. Is it necessary to make any additional alterations to the set?

A.: No, only incorporating the six volts "A" battery and the re-neutralisation. In last week's issue we described in Questions and Answers column how to neutralise a Radiola 20.

OSCILLATOR (Caversham).—By employing a .0001 mfd. double spaced tuning condenser in the "Sparrow Hawk" one, how many turns will be required for the short-wave coils?

A.: The same as specified.

2. I have a 30 ohms rheostat on hand. Could I use this instead of a switch in the "Sparrow Hawk" One?—Yes.

REBEL (Christchurch).—My power pack delivers 90 milliamps at 300 volts. Could I use a speaker drawing 110 mls at 190 volts d.c.?

A.: We would not recommend attempting to use this speaker with your power pack. You will burn something out. Your better plan would be to use one of the type that will operate direct from the mains.

L. LAST HOPE (Nelson).—I wish to wind a broadcast coil on a Colvern former. It is to tune between 200 and 700 metres. What are the numbers of turns?

A.: You have not told us the capacity of the condenser or the size of the wire you intend to use.

2. What is the better valve to use—a 201A or a — valve?

A.: The second valve is really 201A. You have really named the maker, who is licensed under R.C.A. patent, and consequently makes the same types of valves.

L. C.B. (Wakfield).—The circuit which you enclose would give about the same results as the "Outspan Five." A screen grid valve as detector should be followed with resistance capacity coupling as described for the a.c. Advance shortwave receiver in the "Radio Guide." We pub-

tion would be improved by the use of a B805 type of valve in number 5 socket. It should be properly biased, say 9 volts. Otherwise your combination is quite satisfactory.

SIGMA (Auckland).—I wish to reduce a .0005 condenser to a .00023. How many plates must I remove.

A.: If you want to remove plates take out half of them. A better plan, however, would be to use a .0005 fixed condenser with the existing .0005.

J. B. (Murchison). Your circuit is not quite correct. You will have to place the milliametre between the plate of the valve and p of the valve socket. The best size for a milliametre is 0-10. You could arrange shunts to give you a wide range. If you do not want to do this you will

A.: Although we have seen many of the differential sets, and worked several, we have never experienced this difficulty, and are inclined to think that it is due to the particular set built up, not to the circuit. Certainly employing a metal panel would remedy any tendency toward hand capacity.

2. Will the RF choke be suitable for the short-wave band as for B.C.?

A.: If you get an efficient choke, yes.

R. J.C. (Manurewa): When I connect my short-wave adapter to the set it squeals if the filament voltage is at all high.

A.: This is due to there being too many turns on the reaction coil. Reduce this number until the oscillation in the set is controllable. Try reversing the connections to "A-1" and "A-" on the adapter.

2. Would the aerial as shown in my sketch be satisfactory?

A.: Yes, you are showing considerable ingenuity with the proposed aerial, and it should give you very good results. However, by making it longer you would certainly get stronger signals, and it would be better if you could raise the back pole to 50 feet.

D. S. (Auckland): Some time ago you published particulars of a wavetrap suitable for 1YA. Where could I obtain a copy containing these details?

A.: You could build up the wave-trap described in this year's "Guide," but use another form of condenser instead of the fixed condenser. **2. Would the wavetrap described in the issue of September 4, and which is described as being suitable for 2YA and 2ZW be quite satisfactory in Auckland?**

A.: That is more than we can say, as the number of turns are designed to suit the two Wellington stations. However, you could use the particulars given there as a basis for experiment. We see no reason why they should not be correct, as you have a form of condenser which you can adjust for best results.

C. W.T. (Dunedin): Will the dual wave-trap described recently in the "Radio Record" be quite satisfactory for cutting out the local station while tuning for distant ones?—Yes, you may have to make some small alterations in the number of turns for your particular requirements, and the particulars given will certainly make a good basis if you are experimenting.

2. My present aerial is 25 feet long by about 15 feet high. I intend putting another one 80 feet long and approximately 50 feet high at one end, and 25 feet at the other. Would this be satisfactory for shortwave work?

A.: Yes, it would be a decided improvement over the one already in use.

3. In the diagram of a wavetrap you give a 2in. former. Could you give me the specifications for winding with a 2in. former?

A.: The difference is so small as to be negligible. Keep the number of turns the same.

We are pleased to hear the "Ranger Two" is giving satisfaction. It is no doubt a good little set.

BATH (New Plymouth): Will the super-het circuit shown in the "Radio Record" of August 14 work on a B.D. set connected direct to the aerial terminal.—Yes.

G. T.C. (Waipukurau): Are there any all-British sets on the market?—Yes, the Ultimate—an all-wave set, the Corsor, the Rodges, and certain models of the Radiola—45B, and others.

AMPERITE (Taranaki): I have constructed the "Differential One" but am not able to make it oscillate. The tuning condenser has nine moving and eight fixed plates, the differential condenser being .00015. I want it primarily for shortwave, but as yet have not constructed those coils.

A.: Try reversing the connections to your reaction condenser. It sounds very much as though they are back to front. If this does not produce any result, increase the number of turns on the reaction coil.

2. Would it be possible to receive England on the 'phones with the "Differential One"?

A.: This would depend upon your locality. It has been done, and there is no reason why, if you are in a good locality, it cannot be done again.

3. Is the circuit I enclose better than a crystal for volume, and what would be the size of the coils?

A.: The circuit is not an orthodox one, and we cannot tell you very much about it. It should be much better than a crystal. We have no data as to the coils, and think it would be far better to use one of the recognised valve circuits. These fancy circuits are all right up to a point, but that point is usually pretty restricted and they don't work.

NEW OHM (Taurarunui): I have a commercial radio set and I find that night reception is quite satisfactory, but during the day it is very weak. What can I do to correct this state of affairs?

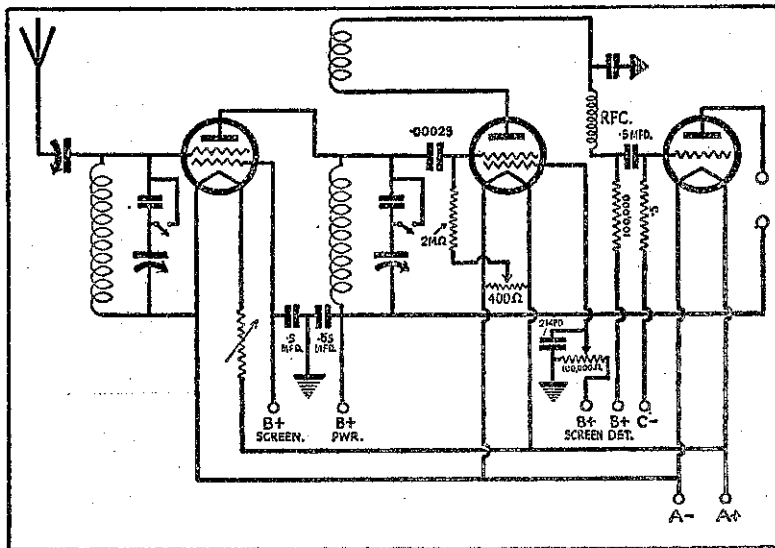
A.: Nothing; daylight reception is always very much worse than night reception. In many districts it is almost impossible to hear anything during the daytime and you appear to be in one of these.

ELECTRIC (Waihi): What are the resistance and condenser values in neutralisers, such as phasatrols?

A.: In a phasatrol the resistance is 2000 ohms, the condenser (usually) .05 mfd.

2. What is the formula to find the voltage drop across a lamp or resistance as in say a 230 volt 50 watt lamp?

A.: It is worked out by Ohm's Law. Firstly in the case of the lamp you must find the current passing. You know that a watt is equal to a volt multiplied by an amp, therefore 50 watts must represent the number of amps, multiplied by 230 volts. This is equal to roughly .2 amp. Now we have amps flowing, we have the voltage drop, therefore we can find out the resistance. $R = \frac{E}{I}$, 230 divided by .2 is 1150 ohms. The voltage drop across the resistance can be calculated directly from ohm's law, in the same way as we worked out the last part of the lamp equation, that is: $R =$



The "Kestrel Three" with screen-grid detector. The reaction condenser is .00025 fixed.

lish herewith a sketch showing the connection for a s.g. detector.

2. Will the coil data of the "Night Hawk" be suitable?—Yes. If you use a .0001 condenser, if for short-wave only, or follow out the directions given for all-wave operation.

3. Can I use differential reaction?—Yes.

R. E.McF. (Ngaurawahia).—I am troubled with a persistent crackling.

A.: This is either a broken down transformer, a loose connection, or a short circuit in the B battery. Your valve combina-

tion would be improved by the use of a B805 type of valve in number 5 socket. It should be properly biased, say 9 volts. Otherwise your combination is quite satisfactory.

TRURO (Auckland): Would it be possible to still further increase the volume of my set by increasing the length of my aerial?

A.: Yes. You will probably get greater signal pick-ups by using a longer aerial, but the chances are the selectivity would be very much impaired. We are sorry your query was mixed up with someone else's, but these things happen even in the best-regulated services. We will not charge you the shilling for the extra six questions.

A. MATHEUR (Dunedin): We regret we cannot give you short-wave coil specifications for the "Ranger Two." It is a broadcast set purely and simply. You could probably find all the information you wanted in the coil tables published in our issue of April 15, 1931. If you wanted an all-wave set why did you not build the Night Hawk two, for which all coil specifications were given?

W. K.M. (Glen Matthew): I operate a four-valve all-wave receiver which refused to function. On making an examination I found that an audio transformer had burnt out and the detector coil was charred, necessitating having it rewound. Strange to say, the valves were in good order. Upon replacing these components the set was again normal.

A.: That is more than we can say, as only a careful examination of the set would reveal the cause, but possibly a short circuit occurred between the plate of the detector valve and earth.

2. How would I eliminate a deadspot on a 50-metre coil? A condenser is seriesed with the aerial, and I have also tried varying the voltage on the detector, but without success.

A.: For the moment we cannot recall if your set has a separate primary or not. If it has, take off a few turns. If not, try a different condenser in series with the aerial.

L. W. (Caversham): I have been told that hand capacity is very bad with the differential series. Would employing a metal panel and sub-panel remedy the said defect?

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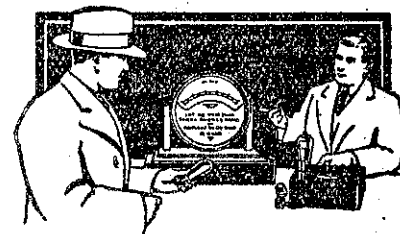
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224	17/6
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227	12/6
245	13/6
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281	32/6

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amp.	Usually	13/6.	5/6
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Christchurch.

Q. When "R" is the resistance, "e" is the e.m.f. dropped and "i" the current passing.

3. When neutralising s.g. and ordinary r.f. valves is it correct to tune out a signal when the filament is disconnected and the reaction off?

A.: Note quite. In the first place you do not neutralise a screen-grid valve and secondly, when you are using a set employing reaction, neutralising is done as was described recently in the "Ranger Three" article.

L.D.M. (Wellington): I have a modified Pierce earth system employing five wires leading directly from the terminal of a lightning arrester. Would it be a better proposition to run one wire from the arrester and branch down near the pipe?

A.: There is very little difference in the efficiency of both these earths; probably the first is the better; you have a lower resistance between the lightning arrester and the pipes than when you use the longer single wire.

FIVE VALVE (St. Albans): Would I get a better bass reproduction if I use a baffle on my speaker?

A.: Yes, a baffle would tend to bring out the bass notes, but your speaker is not particularly adapted for use with a baffle. However, if you could manage to fit behind one, so much the better. The bass notes are not always due to the speaker alone. They, to a very large extent, depend upon the amplifier used in the set.

A.J.B. (Waikato): Would two variable condensers of .00016 capacity with two .0002 fixed condensers in parallel do for the "Kestrel Three"?

A.: No; they would be more or less satisfactory without the parallel condenser for the short-wave but, if you use the parallel condenser for broadcast you would find that the band would not adequately be covered. You see you still have a residual capacity of .0002, whereas, if the condenser were acting normally you would have less than .00005. This of course, prevents you covering the band.

DX22.N.W. (Tasman): What would the aerial sketched out be like? It runs from the top of a cliff about 200 feet high down to the beach?

A.: The aerial would be quite satisfactory. It might be better however, if you could get another mast up on top of the cliff and have your aerial running in its entirety along the top. It will be interesting to get this other aerial up and then compare them.

2.: The gauge of wire enclosed will be quite satisfactory for wiring your house. It is about 18 d.c.c. If, however, you want to move speakers about it would be safer to use an output filter at the set itself, and then you could use fine wire for taking the leads round the house; 24 or 26 gauge would not be too fine.

3.: Is a set harmed when turned on without the speaker connected up, and if the speaker and phones are on the first jack, does it mean that the second audio is not using any current?

A.: It does not harm the set to have it operating without a speaker. It all depends how your set is wired whether the last valve is cut out when you use the first stage jack. In most outfits, the first jack cuts out the last valve. If your circuit is the popular kit set type, then it will be cut out when the first stage is used. Your other point will be answered in the "Diagnosis of Radio."

DX2A (Auckland): Drop a note to the Technical Engineer, "Radio Ltd." Anzac Avenue, Auckland. He will probably supply you with the circuit for which you ask.

VOLTAGE (Hawke's Bay): What will be the best combination of valves to use in my five valve American battery receiver?

A.: Use four 221's and B605 in the last stage. If you use 605 in the last stage it must be suitably biased. Make quite certain that you have provision on your set for a "C" battery. If there is not, then it will be in your interest to have one put in. It is only a small job.

ROGER (S. Canterbury): What adaption should be made to the "Knife Edge Reflector" described in the 1931 "Guide" in order to discriminate between 4YA and KFI?

A.: Those two stations are on frequencies very close to one another, and it is doubtful if you can get them clearly separated even with a wave-trap. Your best plan would be to make up the "Knife Edge

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Rejector" but using formodensers in both places instead of the fixed condenser recommended. The formodenser, which costs about 2/6, can be adjusted to suit any capacity required. It is not possible to use a wave-trap for more than one station, unless something more elaborate is made, such as the dual wave-trap described a few weeks back. Selectivity can often be improved by inserting a fixed condenser of .0002 or .0003 in series with the aerial.

AJAX (Roslyn): American stations can be picked up usually between 4.30 and 7.30 p.m. For more particulars see this month's "Radio Log."

J.P. (Gisborne): I have recently constructed an electric set, but cannot get it to operate when I use an aerial inside an iron shed. If I disconnect the earth and connect the shed to the aerial terminal, I get more or less satisfactory results, but the stations are somewhat weak.

A.: This is quite understandable. The fact that you are using an aerial inside an iron building and not getting results is due to the iron building shielding the aerial and carrying the radio waves to earth. When you connect the iron shed to the aerial terminal, it now acts as an aerial. You can often get very good results by connecting the ground wire to the aerial terminal and leaving off the ground. In fact we prognosticate that, within a very short time, the new sets will be doing this, so abolishing the outdoor aerial. If you erected a good outdoor aerial and installed a good earth, probably your troubles would disappear.

R.S.D. (Palmerston North): I have an a.c. receiver about 2½ years old and am using four 226 valves, one 171 and a 227. Is this a good combination?

A.: It is as good as your set will allow. You could not use a different combination of valves. It is preferable, however, to have them all of the same make.

2. The earth wire is about 4 feet long, connected to a galvanised iron pipe driven 2ft. 6in. in the ground. Is this satisfactory?

A.: Yes. It may be improved by sinking your pipe a little farther in the earth and keeping it moist. Earths were very fully discussed in an article published about 12 months ago.

BEGINNER (Auckland): I have just erected an aerial 30 feet high with the poles 50 feet apart. I find that I get no better results from the aerial than from a coil of wire alongside the set. I get slightly better results by using the earth wire.

A.: Obviously there is something wrong with your aerial installation. If you are using a lightning arrester in the set, take it out, and then try it. If your aerial is on pulleys, let it down and check up on the insulators, to make quite certain that there is not any leakage to earth. Have you checked over all joints to see that the wires come into electrical contact with one another? Many people, in erecting an aerial, forget to scrape the enamel from the two wires they are joining.

NOVICE (Takapuna): I wish to replace the valves in my set. It is at present using 226's in all stages except the detector, rectifier, and last audio. I see that these are out of date. Are there any others that I can use?

A.: We are afraid not. Your set is designed for the 226 type of valve, and you must use these in all stages except the detector and last. We advise you to replace them, as you have had the set some time. Try first the rectifier and see if that makes any difference. If not, replace them all.

J.W.B. (—): I am using a four-valve B. Browning Drake and have re-neutralised it for a PM5X, which I find more sensitive, but I cannot stabilise it below 3YA. Should I remove turns on the primary coil?

A. PM5X is quite a suitable valve for the Browning Drake. Generally speaking the number of turns is the same as for the 199. Try a 2 mfd. by-pass condenser between the bottom of the primary coil and the earth. Place the condenser as near the coil as possible. It may be wise to use an r.f. choke between the point where the condenser joins the "B plus" r.f. lead and the "B" battery. This failing, you may slightly reduce the number of turns on the primary coil, as this always has the effect of making the set more stable.

2. Is it possible to switch out the r.f. valve from the panel to avoid taking it out? I have a separate rheostat for it. If so, what would be the connections to the push-pull switch?

A. If the rheostat will not cut the valve out of the circuit (a rheostat can usually act as an off-on switch as well), take one of the connections from the rheostat and connect instead to the push-pull switch. Connect the other side of the push-pull switch to the rheostat.

N.Z. 107W (Wellington): Would you supply the correct number of turns for .0005 condensers with .0002 differential condensers, to be wound on a valve base?

ANSWER TO COME

2. Should a set squeal on the point of oscillation?

A. If there is a station there it will howl when it is doing this. If there is no station there the trouble is known as fringe howl. It is very annoying and makes tuning difficult. From the sketch of your layout we think that a lot of the trouble is being caused by your having a two-circuit jack on the front panel and also through taking leads from the .0001 condenser used in series with the tuning condenser on to the panel. Stray capacity is always likely to be caused by long leads, particularly with the double-circuit jack. The use of these is not at all wise unless arranged as Mr. Sellens has done in his shortwave. Even then the leads must be kept very short. Is the "C" battery apart from the set itself? If so, then you have a long straggling lead from the grid return. Bring the grid bias battery into the set itself and so shorten the grid circuit. The use of a ½ mfd. condenser across the "C" battery may possibly help, but the best plan is to bring this battery right into the set.

3. Could you furnish working instructions for building a moving coil loud-speaker?

A.: These were published in the "Radio Record" some years ago, but unless you are very lucky you will not be able to get a copy. If you call at our office and ask to see the file copy, it is possible you will be able to jot down particulars sufficient for you to be able to make up the speaker.

ENOXY (Wellington): I have a commercially-made a.c. receiver. What valves should I replace my present ones with when they are done?

A.: We cannot tell you, as you have not stated what make your receiver is. With a.c. valves there is very little chance of variation. You must replace the valves with precisely the same type, though you may select a different make. For instance, if you are using 226 type valves, then you must replace your present ones with these, though you can use any of the several makes there are on the market. However, keep to the better-known makes, as it is not wise to use just anything in the way of valves.

2. What would be the cost of having headphones attached to my set?

A. Very little. If you did the job yourself—and the instructions were given very clearly in the "Radio Record"—a little time back—the cost would be less than 10s. However, phones would not enable you to reach out much farther. What you cannot hear on the speaker with an a.c. set, you rarely hear on the phones. Atmospheres and set noises usually manage to drown out weak signals.

IMPOT. (Rangiora): My set has dead spots over the larger portion of the dials. Could you tell me the cause and remedy?

A. Dead spots over the greater part of your dials, in a set such as the Browning Drake, are caused usually through a defective valve or through the condenser vanes touching. Examine your radio frequency and detector condensers very carefully, turning the vanes in and out through their whole circuit. Watch carefully to see that the vanes do not touch at any place.

2. What type of Philips valves can be used with 135 volts "B" and 6 volts "A" for a four-valve Browning Drake?

A.: 1st radio A600, detector A615, audio A609, power valve B605. The last valve must be biased by 12 volts.

A.NZAC (Christchurch): I have recently replaced the valves in my set and for the first time have heard three American stations faintly. Is this district bad for reception?

A.: Some good logs have been put up in and about Christchurch, but as localities even adjacent vary greatly it is impossible to say if you are getting good results. It seems as though, for the type of set you are using, you are not doing at all badly.

2. Our one pole is 40 feet high with an 80-foot aerial direct to the set. The earth consists of a 9-foot iron pipe sunk into shingle. There is an entire absence of soil. Can we improve our installation in any way?

A.: Yes; erect another pole. It is not a good practice to have one mast and bring the aerial from that directly down to the set. If you had another mast 40 feet high, then brought a lead in from that to the set, your results would be very much improved. Furthermore, where you have shingle it is impossible to get a really good earth unless you go to some trouble by earthing an old copper or by driving several pipes into the ground six feet apart. Dress the surface near where the pipes are buried with salt and keep well watered.

3. Our set has blown two condensers in the last eighteen months. Is there a fault somewhere?

A.: Yes. The condensers are not of a high enough break-down voltage. It sometimes happens that the original condensers in the set break down, but if higher test condensers are put back in the set the trouble should not re-occur.

S.W. Broadcast for N.Z.

WE HAVE just received a letter from a South American station, El Prado, which contains the following advice:—"We are pleased to advise you that we will transmit a special programme dedicated to our New Zealand listeners on Saturday, October 3, from 11 p.m. to 1 a.m., E.S.T. This will be on Sunday from about 4-6 p.m. N.Z. time. El Prado will operate on a wavelength of 39.80 m. We presume that you will receive this letter in ample time to notify all radio fans in advance, and we hope to be repaid by a good number of reports on this transmission. Announcements will all be made in Spanish and English. Address all communications to: El Prado, Apartado 98, Riobamba, Ecuador." I also received a letter from Mr. Payne, the engineer of W3XL, to whom I wrote some time ago for information concerning W9XAA. He writes as follows: "Relative to your inquiry regarding W9XAA. To the best of my knowledge this station operates on a wavelength of 25.34 m., and relays station WCFL's presentations irregularly."—A. P. Morrison (Wellington).

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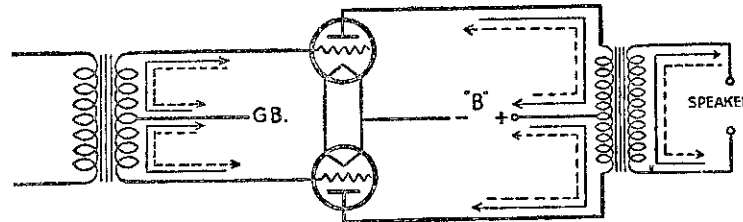
A Diagnosis of Radio

By the Technical Editor

A CORRESPONDENT requests that, before this series be closed, a few notes should be given on push-pull amplification. Others have written on the same subject, one remarking that he does not know the difference between push-pull, pull-push, push-in, pull-out, and so forth, and asking for an explanation.

The explanation of push-pull is a little complicated, but we shall try to keep out technicalities as far as possible.

It must be borne in mind that all radio amplification can be carried out only because of the pulsating nature of the high frequency currents. They surge backwards and forwards similar to the waves breaking on the beach. We have the pulsating movement taking place in the primary of all transformers. This is picked up by the secondaries. If one end of the secondary is connected to the grid of a valve, and the other end connected to earth, as we explained last week, the pulsations on the grid will alternately be high and low. A push-pull amplifier is, on the other hand, one in which the grid voltage changes are applied simultaneously to two valves, not one and the earth, and connected so that increasing grid voltage on one valve is accompanied by decreasing grid voltage on



This sketch illustrates in a general manner how a push-pull amplifier functions.

the other valve. The resulting plate current changes, which are opposite in direction for the both valves, are passed through an output coupling device in such a way that their effects are added together. One valve tends to push plate current through the coupler while the other tends to pull it in the same direction, this action accounting for the name of the amplifier.

Let us now look at the component parts of a push-pull amplifier. There are two valves instead of one, and two transformers. We notice that these transformers are slightly different from the ordinary. The first transformer, known as the input, has a centre tap which is connected to grid bias, or what we might, for the time being, regard as earth, as far as high frequency

current is concerned. The second transformer (output) likewise employs a centre tapped coil, but this time it is primary, and this centre connection is made to "B+" potential. Let us follow the movement of the electrons.

In the first case we get a surging backward and forward in the primary of the input transformer. This is picked up in the secondary, but, instead of surging taking place from the one extremity to another, it takes place from the extremities to the centre tap. Thus while the electrons are piling up on the grid of the valve, there is a deficiency of them on the grid of the other valve. When the cycle is reversed the high pressure of electrons on the first valve eases off by their passing to earth, but there is a pile of electrons on the valve

which previously had a deficiency. Thus the grid voltage rise and fall in the second valve is always opposite to the rise and fall in the first valve.

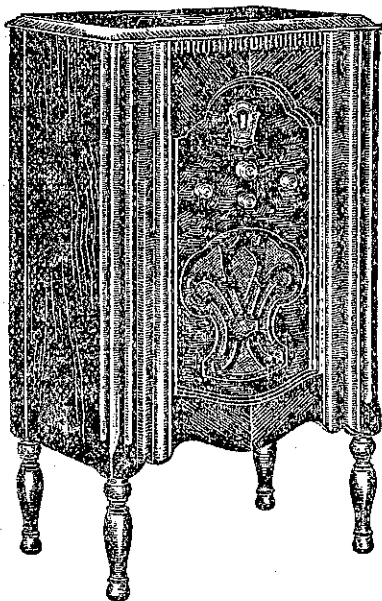
We know from our study of the valve itself that each alteration in the potential on the grid of a valve is magnified in the plate circuit. Thus, while the electrons are piling up on the grid of one valve, the flow of the electrons from the plate is being restricted. Electrons are negative and tend to inhibit the flow of current from the plate to the filament. When the grid becomes less negative more current flows in the plate circuit.

Now as the valves are "out of phase" we will find that in one plate circuit the high frequency current is flowing one way, while in the other it is the reverse. If we can connect these two plate currents we get a continuous pulsation, and the effect of this can be seen from the diagram. The outputs from the plates of the two valves combine in the split primary of the output transformer, and their combined energy passes to the secondary of the output transformer. In a general way we have now explained how push-pull amplification takes place. Let us see some of the practical factors involved:

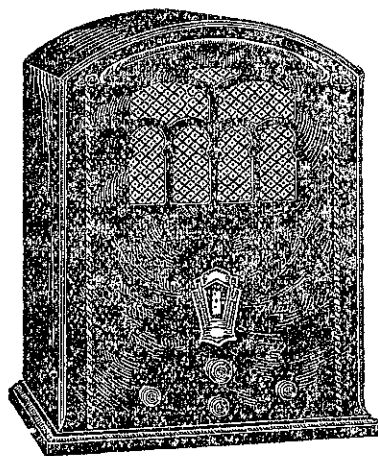
Push-pull amplification implies—

1. That the amplifier is able to handle

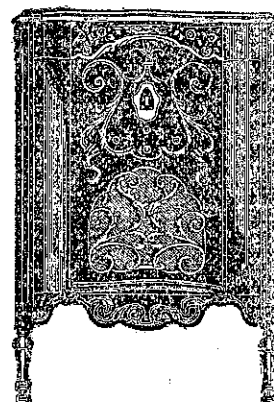
(Continued on page 29.)



Left: Cadet model.



Centre: Compact model.



Right: Console model.

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FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

Auckland Notes

THE service conducted in St. Mary's Cathedral will be broadcast, the preacher being Canon William Fan-court, and the organist and choir-master Mr. Edgar Randall.

In the after-church concert Miss Doris Grant Cowan, mezzo-soprano, is making her first appearance at 1YA. This young lady is a very talented musician, and on this programme she is singing several very fine songs with orchestral accompaniment. Mr. Len. Barnes, baritone, will be heard in several numbers, and Mr. Cyril Towsey, studio pianist, will again delight listeners with his artistic solo work. The Salon Orchestra, under Mr. Harold Baxter, will present several orchestral selections. They have included in their items "L'Arlesienne Suite," "Waltz" from "Der Fledermaus," and "La Traviata" selection.

From Wellington

THE service to be conducted in the Terrace Congregational Church by the Rev. H. W. Newell will be broadcast. Mr. Harry Brusey will be the organist and choir-master. Afterwards, there will be a relay of the concert to be given in St. James Theatre by the Wellington Municipal Tramways Band.

3YA Features

THE service in St. Albans Methodist Church, Christchurch, will be broadcast. The preacher will be the Rev. W. Rowe, with Miss Clarice Bell at the organ and Mr. W. Simpson as

choir master. Afterwards 4YA's studio concert will be relayed.

Dunedin Notes

THE Rev. D. C. Herron will be the preacher in Knox Presbyterian Church, Dunedin, when the service will be broadcast. Mr. C. Roy Spackman



JAMES SIMPSON,

a fine tenor, who has a wide circle of enthusiastic listeners in Auckland.
—S. P. Andrew, photo.

will be the organist. In the after-church concert Miss Myra Stokes, contralto, Mr. Sidney Kershaw, baritone, Mr. J. Kennedy, tenor, will support Madame Reggiardo's excellent instrumental sextet. Handel's beautiful

"Verdant Meadows," "The Three Holy Kings," and "When Shall I Marry Me," will be sung by Miss Stokes. Mr. J. Kennedy's numbers include "On Wings of Song" and "I Hear You Calling Me," while Mr. Sidney Kershaw is to present the prologue to "I Pagliacci," "Men of Harlech," and "By the Light of the Moon." Mr. Palmer, of the sextet, will play a 'cello solo, "Berceuse" from "Joselyn." All the orchestral items will be of a bright nature, the programme including Weber's "Peter Scholl," "Godard's "Mazurka No. 2," Schumann's "Traumerel," a Chopin nocturne, a Spanish pastorale, and "Lallah," an Egyptian intermezzo.

MONDAY

Auckland Notes

FROM noon, 1YA will relay the results of the second day of the spring meeting of the Auckland Racing Club. At 8 o'clock a concert to be given by the returned soldiers of Morrinsville will be relayed.

From 2YA

THE two morning talks will be: At 11.12, Miss Christian on "Cooking," and at 11.37, a talk by a representative of the Red Cross Society. At 7.40 p.m. a lecturette will be given by a representative of the New Zealand Institution of Opticians, entitled "How We See."

Mr. Ernest Jenner, pianist, will have charge of this evening's "Musical Portrait." With Miss Hilda Chudley, contralto, he will present a half-hour of "Russian Music."

Miss Christina Ormiston, the popular Auckland soprano, will sing "One Fine Day" (from "Madame Butterfly") and three of Liza Lehmann's delightful "Bird Songs." Mr. D. L. Irwin, who created so favourable an impression on his first appearance a few weeks ago, will be heard in "Lord Randall," "A Fairy Tree" and "Where'er You Walk."

The programme by the Orchestra, under the conductorship of Signor A. P. Truda, will include an arrangement by Harty of Handel's "Ariette Passacaglia."

From 3YA

THE first of the W.E.A. weekly talks, under the new system of co-operation between the association and the Broadcasting Company, will be given by Mr. Geo. Manning. He will speak on "International Causes of Depression."

The evening concert will be given by the New Brighton Municipal Band

Featurettes

Russian Music

2YA, Monday

Melodie Four

2YA, Tuesday

"The Arcadians"

1YA, Wednesday

Comedy Sketches

2YA, Friday

"Springtime Optimism"

2YA, Saturday

A Radio Vaudeville

3 and 4YA, Saturday.

(conductor, J. A. Nuttall) and assisting 3YA artists.

From Dunedin

A TALK on "Thinking Success" will be broadcast by Mr. Gerald Lane. Dr. C. M. Focken, lecturer in physics, Otago University, will be the lecturer during the international programme.

TUESDAY

From Auckland

AT 7.40 p.m. Mr. N. M. Richmond, director of the W.E.A., will speak, taking as his subject "Plato Looks at the World To-day."

The speaker, during the international programme, will be Mr. Julius Hogben, lecturer on international law at the Auckland University, the subject being "The Conflict of Laws."

2YA Notes

THE weekly lecturette on "Fabrics and Fashions" will be broadcast in the morning. From 2 p.m. to 3 p.m. an educational session will be broadcast. At 7.40 p.m. a lecturette for the man on the land will be given



MRS. AMY DUNN,
a charming mezzo-soprano singing from 3YA on October 8.
—S. P. Andrew, photo.

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The evening programme will be of the popular type. The Melodie Four will again delight listeners in an excellent programme of quartets and solos, including the quartet "Funiculi Funicula," arranged by Mr. Frank Crowther.

The Salon Orchestra, under the conductorship of Mr. M. T. Dixon, will be heard in "Woodland Pictures," "A Night in Seville," the selection, "Princess of Kensington," and the latest dance novelties. Selected electrical recordings will be included in the programme.

Dunedin Features

THE W.E.A. talk will discuss the question, "Would the Cancellation of War Debts Abolish Unemployment?" The Mosgiel Municipal Band (under Mr. Jas. White), assisted by 4YA artists, will provide the evening programme. The band has arranged an attractive programme. Mr. John Davidson will give an introductory explanation to the three Scottish songs he will sing: "Bonny Lass of Ballochmyle," "The Laird o' Cockpen" and "Kircconnell Lea." Two humorous numbers will be given by Mr. Gus Smith.

WEDNESDAY

From Auckland

THE final of the season's community sings in Auckland will be relayed. At 7.40 Senior Inspector W. M. Armour, of the Department of Health, will speak on "The Sanitation of the House."

There is no doubt that amateur operatic societies in New Zealand are on a very high plane, and this applies to the provincial towns as well as to the cities. The Hamilton Amateur Operatic Society has enjoyed many years of well-deserved popularity and listeners will remember, no doubt, that about two years ago 1YA relayed one of their very fine performances. This evening "The Arcadians" will be performed by the members of the society in the Theatre Royal, Hamilton, at 8 p.m., and will be relayed by 1YA.

Wellington Notes

MISS FLORA CORMACK will deliver her weekly lecturette on "Hollywood Affairs." At 7.40 p.m. Mr. Girling Butcher will give a lecturette on "Fire Prevention and Insurance." The lecturer on the evening's International Programme will be Dr. Guy H. Scholefield, O.B.E.

From 3YA

DURING this evening's operatic-classical programme the Grand Opera Quartet will sing two numbers by Mendelssohn—"Spring Song" and "Praise of Spring." Miss Norma Middleton, a brilliant young violinist, will play two solos, and two Chopin numbers will be played by Miss Ellis Gilders pianist.

Dunedin Features

THE subject of the 4YA talk by the Home Science Extension Department of Otago University will be "A Talk About Breakfast." At 7.15 p.m. Mr. L. W. McCaskill will review the September issue of the Journal of Agriculture. Both talks will be un-

der the auspices of the 4YA Primary Productions Committee.

This evening a studio concert will be provided by the Dunedin Orchestral Society under Mr. Alfred Walmsley.

THURSDAY

THE home science talk from 1YA, 2YA and 3YA will be on "Good Meal Planning on an Average Income" (Part 2).

From Auckland

A TALK on "Tooth and Toilet Brushes", under the auspices of the Auckland Manufacturers' Association, will be given.

A programme to be presented by the Auckland Orphans' Club Orchestra, under the direction of Orphan Harold Baxter, and assisted by leading performers in the club, will be broadcast in the evening.

The Orchestra will play the overture "Russlan," the suite "Monsieur Beaucaire," a selection "Maid of the Mountains," and other numbers. Vocal



EVELYN ROBINSON,

A Wellington contralto, frequently heard over the air from 2YA.
—S P Andrew, photo.

numbers will be given by Orphans James Simpson and Bernard Carter, and Orphan J. Finlayson will be heard in several humorous selections.

Wellington Notes

FOLLOWING a lecturette on "Cooking," Mr. F. Clayton, representing the Department of Health, will give a talk on "Medical Examination." At 7.40 p.m. Mr. Johannes Andersen, librarian at the Turnbull Library, will continue his series of lecturettes on "Maori Folk Lore."

A studio concert by the Wellington Artillery Band, under the conductorship of Captain T. Herd, V.D., will be broadcast. The programme includes a number of pieces hitherto not heard from the studio. A feature of these will be the fantasia "Sailor's Life," introducing vocal choruses by the bandmen. Miss Gracie Kerr and Mr. James Cooke will be heard in two humorous sketches.

Christchurch Notes

DURING 3YA's news session there will be a dialogue, "The Story of the Garden," by Messrs. Wiltshire and

Fairclough, a talk on "Pigs" by Mr. M. J. Scott, of Lincoln College, and a talk by Mr. J. P. Whatman on "The Nurse Association."

During the International Programme, Mr. A. C. Brassington, LL.B., will speak on "The Problem of Law and War."

FRIDAY

From Auckland

THE weekly sports talk will be given at 7.40 p.m.

Miss Valerie Peacocke, a very talented soprano, will be making her first appearance before the microphone at 1YA, singing a number of ballads, while Mr. Albert Gibbons Taylor, already popular with listeners, will render a number of songs that were well known years ago. Banjo solos will be contributed by Mr. G. Cornes, and there will be orchestral music by the Salon Orchestra, under Mr. Harold Baxter. "Lee Fore Brace" has been chosen for his subject. "The Vocabulary of the Sea."

Wellington Notes

THE weekly lecturette on "Fashions" will be delivered.

Variety will be the keynote in 2YA's studio programme. The Orchestra will play the overture, "The Bronze Horse," and the selections, "The Gondoliers" and "Poppy." Miss Gwladys Edwards, soprano, will sing "Nightfall at Sea," "If We Sailed Away," "Love was Meant to Make Us Glad," and "When Soft Music Dies." Mrs. Mildred Kenny's mandolin orchestra will be heard in a budget of up-to-date melodies.

A feature of the evening's programme will be a one-act play written and produced by Mr. Victor S. Lloyd, entitled "Squaring the Triangle," and a comedy sketch, "Snails," also written by Mr. Lloyd.

There will be dance music from 9.30 till 11 p.m.

From 3YA

THE "Radio Service" dialogue will be given by Messrs. D. Cossgrove and W. Melbourne.

The miscellaneous evening programme will be contributed by the Melodious Quartet, the Syncopators (piano and violin novelties), Mr. J. P. Darragh (humorist), Mr. Norman Goffin (cornetist), and the Studio Octet, under Mr. Harold Beck.

Dunedin Notes

A NUMBER of well-known 4YA artists will contribute to this evening's variety programme. During the evening a lecture-recital by John T. Leech on "Songs and Legends of India" will be given.

SATURDAY

From 1YA

MR. J. TURNBULL (ZLIBI), under the auspices of the N.Z.A.R.T., will talk on "The Progress of Radio." The talks given by these enthusiastic amateur transmitters are deserving of a wide field of listeners.

The 1YA evening session will be devoted to a relay of a concert to be given by the Auckland Municipal Band, conducted by Mr. George Buckley. The main item on the programme will be Beethoven's Symphony, No. 5, in C Minor. The vocalists are two of Auck-



E. ROGERS,

a 3YA tenor. Mr. Rogers will sing "All Hail, Thou Dwelling, Pure and Lowly" from "Faust," on October 7.
—Steffano Webb, photo.

land's favourites, Mrs. Hal C. McLennan and Mr. Alf. Fogarty.

2YA Notes

AT 7.40, Mr. W. M. Jackson will continue his interesting and instructive talks on "Gladoli and Gardening."

In the evening 2YA will broadcast a programme under the title of "Springtime Optimism," to be given by the Wellington Y.M.C.A. Optimists' Club.

The Salon Orchestra, under the conductorship of Mr. M. T. Dixon, will assist the Optimists, and will be heard in the suite, "Scenes from an Imaginary Ballet" (by Coleridge-Taylor), the novelty "Doll Days," a violin solo "Amour Coquette" (Mr. W. Haydock being the soloist), the saxophone solo "Songs Without Words" (Mr. S. Barrett being the soloist), the novelty "Happy Jacqueline," and the latest dance novelties.

Dunedin Features

FROM 12.30, 4YA will relay the results of the Dunedin Jockey Club's meeting at Wingatui.

A radio vaudeville, produced in the 4YA studio, will also be broadcast by 3YA.

A mixed quartet will sing a number of popular choruses and songs—"Give Yourself a Pat on the Back," "The Harp that Once," "Why," "Telling it to the Daisies," and "John Peel." The Two Bing Boys will contribute humour in song and story. Pipe-Major A. McMillan with his pipes, and Mr. W. G. Carey with his musical saw will both be present.

Personal

MR. BILLY HART, the well-known and popular radio artist, who has been heard frequently from 2YA, has opened a music shop in Willis Street. The novelty of purchasing recordings of the vendor's own musical talent seems to appeal, an exceptional business was done in the first week with "When You Come to the End of the Day." Radio listeners will wish Billy Hart the fullest success in his new venture.

Full Programmes for Next

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

Sunday, October 4

1YA, AUCKLAND (875 KILOCYCLES)—SUNDAY, OCTOBER 4.

- 3.0 : Chimes. Relay from the Auckland Town Hall of portion of Organ Recital by the City Organist—Mr. Maughan Barnett, and selected recordings from the studio.
- 4.0 : Talk—Mr. Paul Edmonds, Examiner in Elocution, Trinity College, London.
- 6.0 : Children's Song Service, conducted by Uncle Leo.
- 7.0 : Relay of Evensong from St. Mary's Cathedral. Preacher: Canon William Fancourt. Organist and Choirmaster: Mr. Edgar Randall.
- 8.30: Chimes.
Suite—London Symphony Orchestra, "Czar Sultan."
Baritone—Mr. Len Barnes, with orchestral accompaniment, (a) "Beloved It Is Morn" (Aylward), (b) "King Charles" (White).
Suite—Salon Orchestra, (under direction of Mr. Harold Baxter), "L'Arlesienne" (Bizet): (1) Overture; (2) Minuetto; (3) Adagio; (4) Carillon.
Evening weather forecast and announcements.
Mezzo-soprano—Miss Doris Grant-Cowen, with orchestral accompaniment, (a) "Cloths of Heaven" (Dunhill), (b) "Silent Noon."
Quartet—Budapest String Quartet, "Quartet in B—Allegro Vivace."
Waltz—Salon Orchestra, Waltz from "Der Fledermaus" (Strauss).
Piano—Mr. Cyril Towsey, "Andante in F" (Beethoven).
Mezzo-soprano—Miss Doris Grant-Cowen, (a) "The Cherry Tree"; (b) "The Music That Love Made" (Hamilton).
Selection—Salon Orchestra, "La Traviata" (Verdi).
Baritone—Mr. Len Barnes, with orchestral accompaniment, (a) "Coming Home" (Willeby), (b) "Village Blacksmith" (Weiss).
Morceau—Salon Orchestra, "Adieu" (Karganoff); Orchestral, "Coquette" (Mathews); Selection, "The Magic Melody" (Romberg).
- 10.0 : God save the King.

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

- 3.0 : Selected gramophone recordings.
- 6.0 : Children's song service, conducted by Uncle George, and assisted by the children's choir from Knox Presbyterian Church, Miramar.
- 7.0 : Relay of evening service from the Terrace Congregational Church. Preacher: Rev. H. W. Newell. Organist and Choirmaster: Mr. Harry Brusey.
- 8.15 (approx.): Relay of concert by the Wellington Municipal Tramways Band from St. James' Theatre (Conductor Mr. E. Franklin).
God save the King.

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

- 3.0 : Gramophone recital.
- 5.30: Children's song service by children of the Methodist Sunday Schools.
- 6.15: Chimes.
- 6.30: Relay from St. Albans Methodist Church, Rugby Street, Merivale. Preacher: Rev. W. Rowe. Organists: Miss Clarice Bell. Choir Conductor: Mr. W. Simpson.
- 7.45: Selected recordings.
- 8.15: Relay of programme from 4YA Dunedin.
- 10.0 : God save the King.

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

- 3.0 : Selected recordings.
- 5.30: Children's song service, conducted by Big Brother Bill.
- 6.15: Instrumental recordings.
- 6.30: Relay of evening service from Knox Presbyterian Church, Dunedin. Preacher, Rev. D. O. Herron, M.A.; Organist, C. Roy Spackman.
- 7.45: Selected recordings.
- 8.15: Studio programme.
Overture—Madame Reggiardo's Sextet, "Peter Schmoll" (Weber).
8.27: Bass-baritone—Mr. Sidney E. Kershaw, (a) "Men of Harlech" (Oxenford); (b) "By the Light of the Moon" (Loughborough).
8.34: 'Cello with orchestra—Mr. P. J. Palmer, "Berceuse" (from "Joselyn").
8.40: Contralto—Miss M. Stokes, "Verdant Meadows" (Handel).
8.44: Selection—The Sextet, "Mazurka No. 2" (Godard).
8.51: Male quartet—Prof. Felix Schmidt Quartet, (a) "Spin, Spin" (Jungst); (b) "Guten Abend, Gute Nacht" (Brahms) (Poly. 23027).
8.57: Tenor—Mr. J. Kennedy, "On Wings of Song" (Mendelssohn).
9.0 : Weather report and station notices.
9.2 : Suite—Regal Cinema Orchestra, "Serenades" (Herbert): (a) Spanish, (b) Chinese (Col. D01).
9.8 : Bass-baritone—Mr. Sidney E. Kershaw, "Prologue to 'Pagliacci'."

- 9.14: Selections—The Sextet, (a) "Idylle" (Bendix); (b) "Traumerei."
9.24: Descriptive ballad—Columbia Dramatic Players and B.B.C. Choir, "The Village Blacksmith" (Weiss, arr. Batten) (Col. 01908).
9.30: Contralto—Miss M. Stokes, (a) "The Three Holy Kings" (Gliere); (b) "When Shall I Marry Me?" (Reynolds).
9.36: Nocturne—The Sextet, "Nocturne, Op. 9 No. 2" (Chopin).
9.42: Tenor—Mr. J. Kennedy, (a) "I Hear You Calling Me" (Marshall); (b) "I Hear a Thrush at Eve" (Cadman).
9.49: Selection—The Sextet, (a) "Natale" (Spanish Pastorale) (Lucomb); (b) "Zallah" (Egyptian Intermezzo) (Lorraine).
God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, OCTOBER 4.

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

Monday, October 5

1YA, AUCKLAND (875 KILOCYCLES)—MONDAY, OCTOBER 5.

- 12.0 : Chimes. Relay of results second day of the Auckland Racing Club's spring meeting, interspersed with selected recordings from the studio.
- 3.0 : Relay from Morrinsville of concert arranged by the Morrinsville Returned Soldiers' Association.
God save the King.

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

- 10.0 : Chimes. Selected gramophone recordings.
- 11.12: Lecturette—"Cooking."
- 11.37: Lecturette—"Health Hints or First Aid."
- 12.0 : Lunch-hour music.
2.0 : Selected recordings.
3.30 and 4.30: Sporting results.
5.0 : Children's hour, conducted by Uncle Jeff.
6.0 : Dinner music session (H.M.V.)—
National Symphony Orchestra, "Light Cavalry" Overture (Suppe).
De Groot and the Piccadilly Orchestra, "Till I Wake" (B2237).
London Symphony Orchestra, "Chanson de Matin" (Elgar) (D1236).
San Francisco Symphony Orchestra, "Liebeslied" (Kreisler) (ED6).
Philadelphia Symphony Orchestra, "Invitation to the Waltz" (Weber).
New Light Symphony Orchestra, "Spanish Serenade" (Bizet) (B2584).
Creatore's Band, "Semiramide" Overture" (Rossini) (C1420).
De Groot and the Piccadilly Orchestra, "The Temple Bells" (B2237).
London Symphony Orchestra, "Chanson de Nuit" (Elgar) (D1236).
San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowsky); (b) "Aubade" (Auber) (ED6).
New Light Symphony Orchestra, "Spanish Dance No. 1" (B2584).
San Francisco Symphony Orchestra, "Valse de Concert" (Glazounov).
7.0 : News, market reports and sports results.
7.40: Lecturette by a Representative of New Zealand Institution of Opticians—"How We See."
8.0 : Chimes. Overture—Berlin Philharmonic Orchestra, "Beatrice and Benedict" (Berlioz) (Poly. 27163).
8.8 : Soprano—Miss Christina Ormiston, (a) "One Fine Day" (Puccini); (b) "Your Brother has a Falcon" (Ireland).
8.15: Tenor—Mr. D. L. Irwin, with orchestral accompaniment, "Where'er You Walk" (Handel).
8.19: "Musical Portrait"—Russian Music.
Contralto—Miss Hilda Chudley (piano, Mr. Ernest Jenner); Song, "The Soldier's Wife" (Rachmaninoff); piano, "Theme and Variations," Op. 72 (Glazounov); songs, (a) "Lilacs" (Rachmaninoff), (b) "To the Children."
8.49: Baritone—Mr. Les Stapp, "Sea Feyer" (Coningsby-Clark).
8.53: Ballet music—2YA Orchestra (Conductor, Signor A. P. Truda), "Rosamunde Ballet Music" (Schubert).
9.0 : Evening weather report and station notices.
9.3 : Waltz—Concerts Colonne Orchestra, Paris, "Symphonie Fantastique—A Ball" (Berlioz) (Parlo. AR1023).
9.11: Contralto—Miss Dorothy Spiller with orchestral accompaniment, "The Enchantress" (Hatton).
9.15: Tenor—Mr. D. L. Irwin, (a) "Lord Randall" (trdl., arr. Scott), (b) "The Fairy Tree" (O'Brien).
9.21: Polonaise—2YA Orchestra, "Ariette Passacaglia" (Handel-Harty).
9.23: Soprano—Miss Christina Ormiston, "Bird Songs" (Lehmann): (a) "The Wood-Pigeon," (b) "The Yellow-Hammer," (c) "The Owl."
9.35: Organ—Sydney Gustard, (a) "Phantom Melody" (Ketelbey), (b) "Air de Ballet" (Chaminade) (H.M.V. B3277).

Week-all Stations-to Oct. 11

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- 9.41: Baritone—Mr. Les Stapp, (a) "A'Vuchella" (Tosti), (b) "Bonnie George Campbell" (Cramer).
 9.46: Contralto—Miss Dorothy Spiller, (a) "In Questa Tomba" (Beethoven), (b) "Hushed is My Lute" (A Slave's Lament).
 9.52: Instrumental—2YA Orchestrina, "Schubert's Sketch-Book."
 10.0 : Dance music programme (Panachord)—
 Foxtrots—Will Osborne and His Orchestra, "One Little Raindrop" (Richman) (P12099); Ranny Weeks and His Orchestra, "Out of Nowhere" (Heyman) (P12122); Will Osborne and His Orchestra, "By the River Sainte Marie" (Leslie) (P12102).
 10.9 : Tango—Juan Llossas Orchestra, "Eva" (Meisel) (Poly. 23950).
 Foxtrots—The Captivators, "Sweet Jennie Lee" (Donaldson) (P12005); Art Kahn's Orchestra, "I'm Happy When You're Happy" (Davis).
 10.18: Vocal—Queenie and David Kaili, "My Hawaiian Song of Love" (Parlo.)
 10.21: Waltz—The Ambassadors, "Just a Little While" (Berlin) (P12005).
 Foxtrots—Carolina Club Orchestra, "Smile, Darn Ya, Smile" O'Flynn (P12110); Sleepy Hall and His Collegians, "Elizabeth" (Caesar) (P12121); Carolina Club Orchestra, "I'm the Last One Left on the Corner" (Whitehouse) (P12110).
 10.33: Tango—Juan Llossas Orchestra, "Fair-Headed Clare" (Poly. 23950).
 10.36: Vocal—Queenie and David Kaili, "Honolulu" (Noble) (Parlo. A3174).
 10.39: Foxtrots—Sleepy Hall and His Collegians, "Say 'Hello' to the Folks Back Home" (Davis) (P12089).
 Rumba foxtrot—Ed. Loyd and His Orchestra, "Mama Inez" (Gilbert).
 Waltzes—Jack Richard and His Miami Orchestra, "Wabash Moon" (Dreyer) (P12102); "Dreamy Rocky Mountain Moon" (P12089).
 10.51: Foxtrots—Milt Shaw and His Detroiters, "Running Between the Raindrops" (Gibbons) (P12122); Sleepy Hall and His Collegians, "Oh,

- Donna Clara" (Caesar) (P12121); Ed. Loyd and His Orchestra, "Thrill Me" (Davidson) (P12109).
 11.0 : God save the King.

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

- 3.0 : Gramophone recital.
 4.25: Sports results.
 5.0 : Children's hour, conducted by Cousin Margot.
 6.0 : Dinner music session—Parlophone:
 Dajos Bela Orchestra, "Russian Fantasie" (Lange) (A4003).
 The Victor Olof Salon Orchestra, "The Merchant of Venice—Incidental Music": (a) "Prelude No. 1," (b) "Intermezzo Portia and Oriental March," (c) "Prelude No. 2," (d) "Doge's March" (Rosse).
 Parlophone Dance Orchestra, "The Skaters" (Waldteufel) (A2648).
 Opera Comique Orchestra, "The Scrotchintsi Fair—A Hot Day in Little Russia" (Moussorgsky) (A3029).
 Dajos Bela Orchestra, "Marian Klange" Waltz (Strauss) (A4038).
 Berlin State Opera House Orchestra, "Christmas Concerto" (A4268-7).
 Dajos Bela Orchestra, "Morgenblätter" (Strauss) (A4038); "Fantasie Orientale" (Lange) (A4003); "Dynamiden Waltz" (Josef Strauss).
 7.0 : News session.
 7.30: W.E.A. session—Mr. George Manning, "The International Causes of the Depression."
 8.0 : Chimes. Programme by the New Brighton Municipal Band (Conductor, Mr. J. A. Nuttall) and 3YA artists.
 March—Band, "Knight of the Road" (Greenwood); foxtrot, "Betty Co-ed" (Fogarty).
 8.8 : Baritone—Mr. Sidney Russ, (a) "The Menin Gate" (Bowen), (b) "Roses" (Adam).
 8.14: Piano novelties—Miss Maisie Ottey, (a) "Meditation" (Lee Sims), (b) "Wanganui Moon" (Mackenzie).
 8.20: Mezzo-soprano—Mrs. N. Sherris, (a) "The Bird with the Broken Wing" (Golson), (b) "Robin Adair" (trdtl.).
 8.26: Waltz—Band, "My Sunshine Came on a Rainy Day" (Campbell); foxtrot, "Sing Something Simple" (Jupp).
 8.34: Tenor—Mr. Cleve N. Stewart, (a) "My Love is Like a Red, Red Rose" (Scottish trdtl.), (b) "Mifanwy" (Weatherley).
 8.39: Banjo quartet—Emile Grimshaw's Banjo Quartet, (a) "You and a Canoe," (b) "Tune Tonic" (Grimshaw) (H.M.V. B2728).
 8.45: Selection—Band, "Spirit of Youth" (Greenwood).
 8.52: Soprano—Miss Helen Mackay, (a) "Little Grey Friend" (Arundale), (b) "Cheer Up, Do!" (Coverley).
 8.57: Monologue—Wish Wynne, "An Embankment Impression" (H.M.V.).
 9.0 : Weather forecast and station notices.
 9.2 : Balalaika—Grand Russian Balalaika Orchestra, "Russian Reminiscences" (Michailowsky) (Poly. 22830).
 9.8 : Baritone—Mr. Sidney Russ, "Adieu, Marie" (Adams).
 9.12: Foxtrots—Band, (a) "I Miss a Little Miss" (Coote), (b) "Three Little Words" (Ruby).
 9.20: Mezzo-soprano—Mrs. N. Sherris, (a) "I Wonder If Ever the Rose" (Slater), (b) "Slumberland Hush-a-Bye" (Hope).
 9.25: Piano novelties—Miss Maisie Ottey, (a) "Fidgety Fingers" (Jentes), (b) "Hot Stuff" (Jackson).
 9.30: Tenor—Mr. Cleve Stewart, (a) "A Maid Sings Light and a Maid Sings Low," (b) "Slumber Song" (Macdowell), (c) "My Mother."
 9.35: Fantasia—Band, "The Old Rustic Bridge" (Walton).
 9.44: Soprano—Miss Helen Mackay, (a) "The Little People" (Brähe), (b) "God's Garden" (Lambert).
 9.49: Whistling—Guido Gualini, "Nola" (Arndt) (Parlo. A2950).
 9.52: Monologue—Wish Wynne, "Bluebeard—A Bedtime Story" (H.M.V.).
 9.55: March—Band, "The Anzaes" (Iithgow).
 10.1 : God save the King.

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

- 3.0 : Selected recordings.
 5.0 : Children's hour, conducted by Uncle Jack.
 6.0 : Dinner music session (Ploydor)—
 Berlin State Opera Orchestra, "Cosi Fan Tutte" Overture (Mozart).
 Efim Schachmeister's Dance Orchestra, "Second Waltz Medley."
 Symphony Orchestra, "Frasquita" Medley (Lehar) (27025).
 Paul Godwin's Orchestra, "First Love" (Michiels) (27006).
 Symphony Orchestra, "The Last Waltz" Medley (Oscar Strauss).
 Paul Godwin's Orchestra, "Cinderella's Bridal Procession" (Dicker).
 Symphony Orchestra, "Eva" Medley (Lehar) (27025); "The Forester's Daughter" Medley (Jarno) (27049).
 Paul Godwin's Orchestra, "Lake of Como" (Galos) (27006); "Throbbing Heart" (Eilenberg) (27007).
 7.0 : News session.
 7.40: Talk—Mr. Gerald Lane, under the auspices of the "Fern" Business Efficiency Society, "Thinking Success."

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AUCKLAND — CHRISTCHURCH — WELLINGTON.

8.0 : Chimes. International programme.
 Vitaphone Orchestra.
 Flying Song Squadron.
 Forget-Me-not.
 Talk—Dr. C. M. Focken, Lecturer in Physics, Otago University,
 "Scientific Method in International Affairs."
 The Irresistible Imps.
 Whispers.
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, OCTOBER 5.

8.0 to 10.0 p.m.: Concert programme.

Tuesday, October 6

1YA, AUCKLAND (875 KILOCYCLES)—TUESDAY, OCTOBER 6.

3.0 : Chimes. Selected recordings.
 5.0 : Children's session, conducted by Uncle Dave.
 6.0 : Dinner music session (Polydor)—
 Paul Godwin's Orchestra, "From Ear To Ear" (Morena) (19623).
 Great Symphony Orchestra, "The Master Miner" (Zeller) (23315).
 Paul Godwin's Orchestra, "Alsatian Country Dance No. 2" (Merkelt)
 (21210); "Smitten" (Ziehrer-Hruby) (21709).
 Symphony Orchestra, "Countess Maritza" Medley (Kalman) (19968).
 Paul Godwin's Orchestra, "Flower Song" (Lange) (21709); "Marietta"
 Fantasia (Strauss) (27154).
 Association des Concerts Lamoureux, Paris, "Petite Suite" (Debussy):
 (1) En Bateau; (2) Cortege; (3) Menuet; (4) Ballet.
 Paul Godwin's Orchestra, "Alsatian Country Dance No. 1."
 7.0 : News and market reports.
 7.40 : Talk—Mr. N. M. Richmond (Director of the W.E.A.) "Plato Looks at
 the World To-day—Education."
 8.0 : Chimes. Specially Recorded International programme.
 Vitaphone Orchestra.
 Flying Song Squadron.
 Forget-Me-Not.
 Weather report.
 International Talk—Mr. Julius Hogben, "The Conflict of Laws."
 The Irresistible Imps.
 Whispers.
 God save the King.

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

10.0 : Chimes. Selected gramophone recordings.
 11.12 : Lecturette—"Fabrics and Fashions."
 12.0 : Lunch hour music.
 2.0 : Educational session.
 3.0 : Selected recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Jumbo.
 6.0 : Dinner music session (Columbia)—
 Bournemouth Municipal Orchestra, "Crown Diamonds" Overture.
 J. H. Squire's Celeste Octet, "Air On G String" (Bach, arr. Sear).
 New Concert Orchestra, "Nights of Fragrance" (Ziehrer) (02979).
 B.B.C. Wireless Symphony Orchestra, "H.M.S. Pinafore" Selection.
 J. H. Squire's Celeste Octet, "On Wings of Song" (Mendelssohn).
 Bournemouth Municipal Orchestra, "The Bronze Horse" Overture.
 J. H. Squire's Celeste Octet, "Putting the Clock Back" (arr. Squire),
 (DOX71); "Funeral March of a Marionette" (Gounod, arr. Sear).
 New Concert Orchestra, "Vienna Maidens" (Ziehrer) (02979).
 Classic Symphony Orchestra, "Classic Memories" (arr. Ewing).
 J. H. Squire's Celeste Octet, "Ave Maria" (Bach, Gounod) (02589).
 7.0 : News, market reports and sports results.
 7.40 : Lecturette by a Representative of the Agricultural Department, "For
 the Man on the Land."
 8.0 : Chimes. Potpourri—Dajos Bela Orchestra, "The Countess Maritza."
 8.8 : Quartet—Melodie Four, "Funiculi Funicula" (arr. Crowther).
 8.12 : Instrumental—2YA Salon Orchestra (Conductor Mr. M. T. Dixon)
 "Woodland Pictures" (Fletcher).
 8.22 : Contralto—Miss E. Robinson, (a) "An Erlskay Love Lilt" (Fraser),
 (b) "Last Night" (Kjerulf).
 8.28 : Melodeon—The Melodeon Players, (a) "The Belle of Bodensee"
 (trdl.), (b) "Evelina Mazurka" (D'Alba) (Reg. G20950).
 8.34 : Bass—Mr. W. W. Marshall, with orchestral accompaniment, "Gypsy
 Dan" (Kennedy Russell).
 Quartet—Melodie Four, "Moonlight on the Colorado" (arr. Crowther).
 8.40 : Descriptive Fantasia—2YA Salon Orchestra, "A Night in Seville."
 8.48 : Tenor—Mr. Frank Bryant, (a) "A Song and a Dream" (Cadman) (b)
 "Linden Lea" (Williams).
 8.54 : Banjo—Len Fillis, "Swanee River" Medley (arr. Fillis) (Col. DO292).
 9.0 : Weather report and station notices.
 9.2 : Selection—2YA Salon Orchestra, "Princess of Kensington" (German).
 9.14 : Contralto—Miss Evelyn Robinson, (a) "The Last Hour" (Kramer), (b)
 "Madrigal" (Chaminade).
 9.20 : Piano—Una Bourne, (a) "Valse Arabesque No. 4," (b) "Aubade" Op.
 140 (Chaminade) (H.M.V. B2499).
 9.26 : Baritone—Mr. R. S. Allwright, with orchestral accompaniment, "The
 Song of the Clock" (Burchell).
 Quartet—Melodie Four, "Lullaby" (Brahms).

9.32 : Instrumental—2YA Salon Orchestra, (a) "Cantilene" (York Bowen),
 (b) "Moto Perpetuo" (Weiss), (c) "Valse Mignonne" (Drigo).
 9.44 : Tenor—Mr. Sam Duncan, "Violets" (Wright).
 Quartet—Melodie Four, "Soldier's Farewell" (Kinkel).
 9.50 : Humour—Tom Clare, "Cohen Rings Up His Tailor" (Bluff).
 9.54 : Instrumental—2YA Salon Orchestra, "Latest Dance Novelties."
 10.0 : God save the King.

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

SILENT DAY.

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

3.0 : Selected recordings.
 5.0 : Children's hour, conducted by Aunt Leonore.
 6.0 : Dinner music session (H.M.V.)—
 Philadelphia Symphony Orchestra, "Damnation of Faust—Marche Hon-
 groise" (Berlioz) (ED7).
 New Light Symphony Orchestra, "The Waltzing Doll" (Poldini).
 International Novelty Quartet, "Teddy Bears' Picnic" (Bratton).
 New Mayfair Orchestra, "Wake Up and Dream" Selections (Porter).
 Organ—Edward O'Henry, "Just as We Used to Do" (Rulli) (B3428).
 Salon Orchestra, "Chanson Boheme" (Baldi) (B2581).
 Marimba Band, "Morales Lopez" (Bolanos) (Zono. EE207).
 De Groot's Piccadilly Orchestra, "Friend o' Mine" (Sanderson).
 International Novelty Quartet, "The Skaters" (Waldteufel).
 National Military Band, "Lohengrin" Prelude (Wagner) (Zono. A358).
 Berlin State Opera Orchestra, "Der Rosenkavalier" Waltz (Strauss).
 New Light Symphony Orchestra, "At Dawning" (Cadman) (B2629).
 Philadelphia Symphony Orchestra, "Samson and Delilah Bacchanale."
 Salon Orchestra, "Aloha Sunset Land" (Kawelo) (B2581).
 Marimba Band, "Aguas Dormidas" (Bolanos) (Zono. EE207).
 Organ—Edward O'Henry, "Dreamy Lover" (Schertzing) (B3428).
 De Groot's Piccadilly Orchestra, "None but the Weary Heart" (B2587).
 7.0 : News session.
 7.40 : Talk—Under auspices of the W.E.A., by W.E.A. Students, "Would the
 Cancellation of War Debts Abolish Unemployment?"
 8.0 : Chimes. Studio programme by Mosgl Municipal Band (Conductor,
 Mr. Jas. White) and 4YA Artists.
 March—The Band, "The Flying Squadron" (Bosworth); selection,
 "Fedora" (Rayner).
 8.12 : Contralto—Miss Dorothy L. Stentiford, (a) "Spring Sorrow" (Ireland);
 (b) "The Auld Hoose" (Moffat).
 8.18 : Organ—Leo Stin, (a) "The Sea's Surging Devotion" (Goublier); (b)
 "La Serenata" (Hiltz) (Poly. 23166).
 8.24 : Humour—Mr. Gus Smith, "The Ideal Home" (Gow).
 8.29 : Selection—The Band, "Recollections of Wales" (Rimmer).
 8.41 : Songs, with introductory remarks—Mr. John Davidson, (a) "The
 Bonnie Lass o' Ballochmyle" (Jackson); (b) "The Laird o' Cock-
 pen" (Trdl.).
 8.53 : Cornet duet—Bandsmen White and McDougall, "The Humming Bird."
 8.57 : Soprano—Miss A. M. Brook, "O, Men from the Fields" (Hughes).
 9.0 : Weather report and station notices.
 9.2 : Waltz—Berlin Philharmonic Orchestra, "Roses of the South" (Strauss).
 9.10 : Contralto—Miss Dorothy L. Stentiford, "The Dear Little Shamrock."
 9.14 : Fantasia—The Band, "A Summer Day" (Greenwood).
 9.24 : Male choir—De Svenske Male Chorus, (a) "Domaredansen," (b) "Dal-
 visa" (arr. Olsson) (Poly. 90070).
 9.30 : Humour—Mr. Gus Smith, "Little Novels" (Henty).
 9.35 : Waltz—The Band, "Desdemona" (Carter).
 9.42 : Song, with introductory remarks—Mr. John Davidson, "Kirkconnell
 Lea."
 9.48 : Banjo—Mario de Pietro, "Keyboard Kapers" (Steele) (H.M.V. B2475).
 9.51 : Soprano—Miss A. M. Brook, (a) "Charming Chloe" (German); (b)
 "The Shepherd's Song" (Godard).
 9.57 : March—The Band, "Irwell Springs" (Greenwood).
 10.1 : God save the King.

Wednesday, October 7

1YA, AUCKLAND (875 KILOCYCLES)—WEDNESDAY, OCTOBER 7.

12.30 : Relay of community singing from the Auckland Town Hall.
 3.0 : Chimes. Selected recordings.
 3.15 : Literary selection.
 5.0 : Children's session, conducted by Uncle Reg.
 6.0 : Dinner music session (Parlophone)—
 Frank Westfield's Orchestra, "The Belle of New York" Selection.
 Dajos Bela Orchestra, "Strauss, the Waltz King, at Home" (Weber)
 (A4260); "Ideale" (Tosti) (A4015); "Viennese Life" Waltz.
 Victor Olof Salon Orchestra, "Grieg Selection" (arr. Urbach) (A4250).
 Dajos Bela Orchestra, "Serenade" (Moszkowski) (A4015).
 Berlin State Opera Orchestra, "Wine, Women and Song" Waltz (A4019).
 Dajos Bela Orchestra, "Traumideale" (Fucik) (A4259).
 Frank Westfield's Orchestra, "Our Miss Gibbs" Selection (Monckton).
 Barnabas Von Gezey and His Orchestra, "Strauss Waltz Medley."
 7.0 : News and market reports.
 7.40 : Talk, under the auspices of the Department of Health, "Sanitation of
 the House," by Senior Inspector W. M. Armour.

8.0 : Chimes. Relay from the Theatre Royal, Hamilton, of Caryl and Monckton's Musical Comedy, "The Arcadians," by the Hamilton Operatic Society.
God save the King.

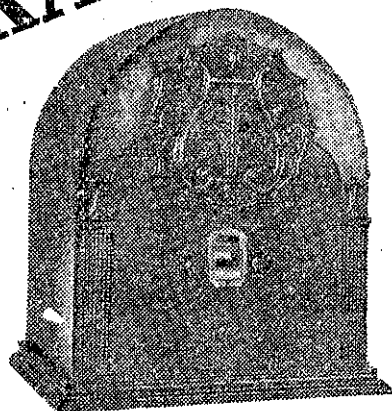
2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, OCTOBER 7.

10.0 : Chimes. Selected gramophone recordings.
11.37 : Lecturette—"Hollywood Affairs."
12.0 : Lunch hour music.
2.0 : Selected recordings.
3.30 and 4.30 : Sporting results.
5.0 : Children's hour, conducted by Aunt Daisy.
6.0 : Dinner music session (Polydor)—
Paul Godwin's Orchestra, "The Jolly Robbers" Overture (Suppe).
Mandolin and Lute Band, "Per Aspera ad Astra" (Urbach) (21624).
State Opera Orchestra, Berlin, "Othello" Ballet (Verdi) (66454).
Paul Godwin's Orchestra, "Bells of Vineta" Waltz (Lindsay-Thiemer).
The Philharmonic Orchestra, Berlin, "The Gipsy Baron" (Strauss).
Paul Godwin's Orchestra, "The Girl of the Black Forest" (Jessel).
Mandolin and Lute Band, "Turkish March" (Mozart) (21624).
Ilja Livschakoff's Orchestra, "Spring in Paris" (Kalman) (23725).
Philharmonic Orchestra, Berlin, "Les Huguenots" Overture.
Paul Godwin's Orchestra, "Lotus" Waltz (Ohlsen) (23323); "Avant de Mourir" (Boulanger) (21407).
7.0 : News, market reports and sports results.
7.40 : Lecturette—Mr. G. Girling-Butcher, "Fire Prevention and Insurance."
8.0 : Chimes.
Vitaphone Orchestra.
The Mirth Quakers.
Weather report.
International talk—Dr. Guy H. Scholefield, O.B.E.
The Flying Song Squadron.
The Old Whittier.
Whispers.
God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, OCTOBER 7.

3.0 : Gramophone recital.
4.25 : Sports results.
5.0 : Children's Hour, conducted by Uncle John and Cousin Beatrice.
6.0 : Dinner music session (Columbia)—
Albert Sandler and His Orchestra, "My Dream Memory" (Levant).
Menorah Symphony Orchestra, "Shulamith" Selection (Goldfaden).

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J. H. Squire's Celeste Octet, "Serenade" (Moszkowski-Sear) (4194).
Royal Philharmonic Orchestra, "Blue Danube" Waltz (Strauss).
Jean Lensen and His Orchestra, "Ideale" (Tosti, arr. Tavan) (01917).
Cordoba Philharmonic Orchestra, "Carnival" (Lucena) (DOX77).
Organ—Quentin MacLean, "Lily of Laguna" (Stuart) (DO24).
Herman Finck and His Orchestra, "Old and New" Potpourri of Popular Melodies" (arr. Finck) (DOX 45 and 59).
Albert Sandler and His Orchestra, "Give Me Back My Heart."
J. H. Squire's Celeste Octet, "Moment Musicale" (Schubert-Sear).
Jean Lensen and His Orchestra, "Love's Last Day" (Benatsky).
Cordoba Philharmonic Orchestra, "La Habanera" (Lucena) (DOX77).
Organ—Quentin MacLean, "Little Dolly Daydream" (Stuart).
7.0 : News session.
7.30 : Addition stock market reports.
8.0 : Chimes. Intermezzo—Orchestre Symphonique de Paris, "L'Arlesienne Suite" (Bizet) (Col. 01326).
8.3 : Contralto—Miss Alice Vinsen, "Flower Song" (from "Faust").
8.7 : Violin—Miss Norma Middleton, "Andante Symphonie Espagnole."
8.13 : Tenor—Mr. Ernest Rogers with octet accompaniment, "All Hail Thou Dwelling Pure and Lowly" (from "Faust") (Gounod).
8.18 : Overture—Studio Octet, "Tierrabras" (Schubert).
8.26 : Soprano—Madame Gower Burns, (a) "My Swan," (b) "Morning."
8.29 : Piano—Miss Ellis Gilders, "Scherzo in C Sharp Minor" (Chopin).
8.36 : Baritone—Mr. R. Lake with Octet accompaniment, "Now Your Days of Philandering Are Over" (from "Marriage of Figaro") (Mozart).
8.40 : Violin—Miss Norma Middleton, "Romance" (Wieniawski).
8.45 : Soprano and tenor—Grand Opera Duo, "The Hour Is Late" (from "Faust") (Gounod).
8.49 : Male Choir—Lay Vicars of Westminster Abbey, "Swing Low, Sweet Chariot" (Burleigh) (H.M.V. B3413).
8.52 : Orchestral—Studio Octet, (a) "Valse Caprice" (Rubenstein); (b) "Song of the Volga Boatmen" (arr. Langey); (c) "Russian Dance."
9.2 : Weather forecast and station notices.
9.4 : Contralto—Miss Alice Vinsen, (a) "Song of the Western Sky"; (b) "I Wonder If Ever The Rose" (Hulbert).
9.11 : Piano—Miss Ellis Gilders, "Study in C Sharp Minor" (Chopin).
9.16 : Quartets—Grand Opera Quartet, (a) "Spring Song"; (b) "Praise of Spring" (Mendelssohn).
9.20 : Operatic Selection—Studio Octet, "Lucia Di Lammermoor."
9.30 : Dance music (Brunswick)—
Foxtrots—Ben Bernie and His Orchestra, "I'm Yours" (Harburg) (4898); Jacques Renard and His Orchestra, "Loving You The Way I Do" (Scholl) (4919); Ben Bernie and His Orchestra, "Confession" (Neiburg) (4898); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Just a Little Dance, Man'selle" (O'Flynn) (4900); Jacques Renard and His Orchestra, "Lucky Seven."
9.42 : Waltz—Abe Lyman and His California Orchestra, "This Is Love."
Foxtrots—Isham Jones's Orchestra, "Sweet Jennie Lee" (Donaldson) (4900); Jacques Renard and His Orchestra, "Lucky Seven."
9.51 : Vocal—Wendell Hall, "Underneath the Mellow Moon" (Hall) (4879).
9.54 : Foxtrots—Ozzie Nelson and His Orchestra, "I Don't Mind Walkin' in the Rain" (Rich) (4897); Isham Jones' Orchestra, "In My Heart It's You" (O'Flynn) (4914); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "I Wonder How It Feels" (Sherman).
10.3 : Jacques Renard and His Orchestra, "Sing Something Simple" (Hupfeld) (4918); "Can This Be Love?" (James) (4919).
10.9 : Vocal—Jessica Dragonette, "When You're Away" (Blossom) (4904).
10.12 : Foxtrots—Isham Jones's Orchestra, "I'll be Blue, just Thinking of You" (Whiting) (4914); Meyer Davis' Hotel Astor Orchestra, "Looking for the Lovelight in the Dark" (Dubin) (4870); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Little White Lies."
10.21 : Waltz—Castlewood Marimba Band, "When the Organ Played at Twilight" (Wallace) (4913).
10.24 : Foxtrots—Ozzie Nelson and His Orchestra, "I Still Get a Thrill" (Davis) (4897); Meyer Davis' Hotel Astor Orchestra, "As Long As I Have You" (Dubin) (4870); Tom Gerun and His Orchestra, "A Big Bouquet For You" (Kahn) (4895).
Vocal—Wendell Hall, "Land Of My Sunset Dreams" (Hall) (4879).
10.36 : Foxtrots—Tom Gerun and His Orchestra, "Sing" (Johnson) (4911); Tom Gerun and His Orchestra, "If I Could Be With You" (Creamer) (4895), "Wasting My Love on You" (Leslie) (4911); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Sweetheart of My Student Days" (Kahn) (4927).
10.48 : Waltz—Castlewood Marimba Band, "Moonlight on the Colorado."
10.51 : Emil Coleman and His Orchestra, "I've Got Five Dollars" (Rodgers).
Loring Nichols and His Orchestra, "You Said It" (Arlen) (8029).
Emil Coleman and His Orchestra, "We'll Be The Same" (Rodgers).
11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, OCTOBER 7.

3.0 : Selected recordings.
3.15 : Talk—"Talk About Breakfast," by the Home Science Extension Department of Otago University.
5.0 : Children's Hour, conducted by Big Brother Bill.
6.0 : Dinner music session (Columbia)—
J. H. Squire's Celeste Octet, "The Fly's Courtship" (Squire) (DO308).
B.B.C. Wireless Military Band, "Dance of the Tumblers."
Organ—Terence Casey, "I'm Lonely" (Coates) (01501).
Halle Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov).
Columbia Symphony Orchestra, "Idilio" (Lack) (01076).
Ketelbey's Concert Orchestra, "Cockney Suite": (1) A State Procession, (2) The Cockney Lover (Ketelbey) (05052).
Debroy Somers Band, "Hungarian Medley" (arr. Somers) (01862).
B.B.C. Wireless Military Band, "Golliwog's Cake Walk" (Debussy).

- Organ—Terence Casey, "Bird Songs at Eventide" (Coates) (01501).
 J. H. Squire's Celeste Octet, "The Ant's Antics" (Squire) (D0308).
 Ketelbey's Concert Orchestra, "Cockney Suite," (3) At the Palace de Danse, (4) Elegy, (5) Bank Holiday (Ketelbey) (05053-4).
 Columbia Symphony Orchestra, "Spring Song" (Mendelssohn).
 7.0 : News session.
 7.15 : Talk—Mr. L. W. McCaskill, "Review of N.Z. Journal of Agriculture."
 8.0 : Chimes. Programme by the Dunedin Orchestral Society (Conductor Mr. Alfred Walmesley) with assisting artists.
 Selections—The Orchestra, (a) "Wanderings in the Wood" (Lange); (b) "Nozze Di Figaro" (Mozart).
 8.16 : Mezzo-soprano—Miss M. Vickers, with violin obbligato, "Serenata."
 8.21 : Selection—The Orchestra, "Carmen" (Bizet).
 8.31 : Tenor—Mr. W. E. Bathgate, (a) "My Task" (Ashford), (b) "I Heard You Go By" (Coates).
 8.37 : Entr'actes—The Orchestra, (a) Mennett and Trio in D" (Mozart); (b) "Loin Du Bal" (Gillet).
 8.47 : Soprano—Miss Evelyn Shepard, "To The Children" (Rachmaninoff).
 8.50 : Piano—Mrs. C. Drake, "Sequidettas" (Albeniz).
 8.54 : Bass—Mr. F. Watt, (a) "The Sergeant Major on Parade" (Longstaffe); (b) "Angelus At Sea" (Johnson).
 9.0 : Weather report and station notices.
 9.2 : Violin—Tosy Spiwakowsky, "Caprice XX" (Paganini-Kreisler).
 9.6 : Mezzo-soprano—Miss M. Vickers, "Till Dawn" (Loewe).
 9.10 : Overture—The Orchestra, "Barber of Seville" (Rossini).
 9.17 : Tenor—Mr. W. E. Bathgate, "When Shadows Gather" (Marshall).
 9.20 : Minuet—The Orchestra, "Manon Minuet" (Massenet).
 9.24 : Soprano—Miss Evelyn Shepard, (a) "The Pearl"; (b) "The Sapphire."
 9.30 : March—The Orchestra, "Hungarian March" (Rechlis).
 9.36 : Bass—Mr. F. Watt, "The Erl King" (Schubert).
 9.40 : Dance session (Panachord and Polydor)—
 Foxtrots—Milt Shaw and His Detroiters, "Walkin' My Baby Back Home" (Turk) (P12098); Sleepy Hall and His Collegians, "On a Little Balcony in Spain" (Klein) (P12009); Benny Goodman and His Orchestra, "When Your Lover Has Gone" (Swan) (P12111).
 9.49 : Waltz—Paul Godwin's Dance Orchestra, "Strolling With You Through The Spring" (Rotter) (23946).
 Foxtrots—Paul Godwin's Dance Orchestra, "I Know That Once You'll Forget" (May) (23942); Will Osborne and His Orchestra, "Hello Beautiful" (Donaldson) (P12098).
 9.58 : Vocal—Alfred O'Shea, "Love, Here is My Heart" (Ross) (Col. 01605).
 10.1 : Foxtrots—Paul Godwin's Dance Orchestra, "Catch Me, My Darling, Catch Me" (Karlick) (23963); "When Are You Mine?" (May), (23947); "Letters From Your Girl" (Amberg) (23963).
 10.10 : Tango—Paul Godwin's Dance Orchestra, "My Heart is a Saloon."
 Foxtrots—Ilja Livschakoff's Dance Orchestra, "Oh, Dorothy, When You I See" (Stolz) (23931); The Travellers, "I've Got a Sweet Somebody to Love Me" (Handman) (P12148).
 10.19 : Vocal—Ray Raymond, "And Then Your Lips Met Mine" (Nelson).
 10.22 : Foxtrots—Ilja Livschakoff's Dance Orchestra, "Three Little Things I Desire" (Stolz) (23931); The Travellers, "Dream a Little Dream of Me" (Kahn) (P12148); Milt Shaw and His Detroiters, "My Love For You" (Kahn) (P12006).
 10.31 : Tango—Paul Godwin's Dance Orchestra, "Don't Be Sad" (Cowler).
 Foxtrots—Milt Shaw and His Detroiters, "It's An Old Spanish Custom" (Leslie) (P12009); White Coons Orchestra, "Live and Love Today" (Janis) (P11992).
 10.40 : Waltzes—Sleepy Hall and His Collegians, "Ukelele Moon" (Davis) (P12006); Mark Fisher and His Orchestra, "Gee! I'd Love to be Your Sweetheart" (Tobias) (P12111).
 10.46 : Vocal—Alfred O'Shea, "Just a Little Love, a Little Kiss" (Silesu).
 10.49 : Foxtrots—Sleepy Hall and His Collegians, "It Must Be True" (Clifford) (P12066); Don Bigelow and His Orchestra, "Were You Sincere" (Meskill) (P12131); Sleepy Hall and His Collegians, "Just a Gigolo" (Caesar) (P12066).
 10.53 : Waltzes—White Coons Orchestra, "This Is Love" (Grey) (P11992); Mark Fisher's Orchestra, "You Will Remember Vienna."
 Foxtrots—Don Bigelow and His Orchestra, "Think a Little Kindly Of Me" (Johnson) (P12131); Mark Fisher's Orchestra, "I Bring a Love Song" (Romberg) (P12019).
 11.10 : God save the King.
- Organ duet—Mr. and Mrs. Jesse Crawford, "The Moonlight Reminds Me of You" (Kahn) (EA763).
 Victor Oloff Sextet, "Cherry Ripe" (Scott) (B2697).
 San Francisco Symphony Orchestra, "Rosamunde Entr'acte" (D1568).
 Royal Opera Orchestra, Prelude, "The Huntress," from "Sylvia Ballet."
 Reginald King and His Orchestra, "Song o' My Heart" Selection.
 Royal Opera Orchestra, "Faust" Ballet Music, Fifth to Seventh Movements (Gounod) (C1463); "Shepherd Fennel's Dance" (C1469).
 7.0 : News and market reports.
 7.40 : Talk (under the auspices of the New Zealand Manufacturers' Association), "Tooth and Toilet Brushes."
 8.0 : Chimes. Concert by the Auckland Orphans' Club Orchestra under the conductorship of Mr. Harold Baxter.
 March—The Orchestra, "Vito" (Lope); overture, "Russian" (Glinka).
 8.13 : Baritone—Mr. Bernard Carter, (a) "The Diver" (Loder), (b) "She is the Belle of New York" (Kerker).
 8.19 : Suite—The Orchestra, "Monsieur Beaucaire" (Rosse); patrol, "Wee McGregor" (Amers); fantasia, "Swanee River" (Myddleton).
 8.41 : Humour—Mr. J. Finlayson, "Some Humour."
 8.46 : Suite—The Orchestra, "Nell Gwynn Dances" (German); scena, "The Mill" (Ellenberg).
 9.1 : Evening weather forecast and announcements.
 9.3 : Selection—The Orchestra, "Maid of the Mountains" (Fraser-Simson).
 9.13 : Tenor—Mr. James Simpson, (a) "The English Rose" (German); (b) "I Seek for Thee in Every Flower" (Ganz).
 9.19 : Medley—The Orchestra, "Popular Songs" (Stoddon); march, "Freedom's Flag" (Nowowiecki).
 9.30 : Programme of dance music (Brunswick)—
 Foxtrots—Colonial Club Orchestra, "Sing-Song Girl" (McCarthy) (4974X); Earl Burtnett's Orchestra, "Imagine" (Burtnett) (41304); Jacques Renard and His Orchestra, "Heartaches" (Klerner) (6033X); Tom Gerun and His Orchestra, "Nine Little Miles from Ten-Ten-Tennessee" (Sherwin) (4999); "I'm Happy When You're Happy" (Davis) (6057).
 9.45 : Vocal—Dick Robertson, "One Little Raindrop" (Richman) (Pana.).
 9.48 : Foxtrots—Abe Lyman and His California Orchestra, "Golden Sands" (Greer) (4912); Lloyd Huntley and His Orchestra, "Wond'ring" (Sherman) (4974X); Hal Kemp and His Orchestra, "Think a Little Kindly of Me" (Johnson) (6056).
 Waltz—Bob Haring and His Orchestra, "One Love" (Koehler) (6031).
 10.0 : Foxtrots—Abe Lyman and His Californian Orchestra, "Old-Fashioned Girl" (De Sylva) (4924); Nick Lucas and His Crooning Troubadours, "Walkin' My Baby Back Home" (Turk) (6059X); Ben Bernie and His Orchestra, "Love Comes in the Moonlight" (Dubin).
 10.9 : Vocal—The Two Gilberts, "We're All Happy" (Leslie) (Reg. G20809).
 10.12 : Foxtrots—Ben Bernie and His Orchestra, "You're Just a Love" (Egan) (6057); Jesse Stafford and His Orchestra, "Building a Home for You" (Kahn) (41334); Earl Burtnett and His Biltmore Hotel Orchestra, "To Make a Long Story Short" (Gay) (6034); Ben Bernie and His Orchestra, "Au Revoir, Pleasant Dreams" (Meskill) (41304); Brunswick Hour Orchestra, "By the River Sainte Marie" (Leslie) (6066); Bob Haring and His Orchestra, "Two Hearts in Waltz Time" (Stolz) (6031).
 10.30 : Foxtrots—Abe Lyman and His Californian Orchestra, "Never Swat a Fly" (De Sylva) (4924); Emil Coleman and His Orchestra, "Elizabeth" (Caesar) (6082); Ben Bernie and His Orchestra, "Highway to Heaven" (Dubin) (4850).
 10.39 : Vocal—Dick Robertson, "Got the Bench—Got the Park" (Lewis).
 10.42 : Foxtrots—Hal Kemp and His Orchestra, "I Want You for Myself" (Berlin) (6056); Earl Burtnett and His Biltmore Hotel Orchestra, "I Found What I Wanted in You" (Endor) (6059X).
 Waltzes—Castlewood Marimba Band, "Blue Pacific Moonlight" (Herbert) (6033X); Brunswick Hour Orchestra, "Under a Roof in Paree" (6066).
 10.54 : Foxtrots—Tom Gerun and His Orchestra, "What Good Am I Without You" (Ager) (4999); Earl Burtnett and His Biltmore Hotel Orchestra, "I Surrender Dear" (Clifford) (6034).
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, OCTOBER 8.

- 10.0 : Chimes. Selected gramophone recordings.
 10.45 : Lecturette—"Cooking."
 11.37 : Lecturette—Mr. F. Clayton, under the auspices of the Health Department, "Medical Examinations."
 12.0 : Lunch-hour music.
 2.0 : Selected recordings.
 3.15 : Lecturette—"Good Meal-Planning on an Average Income" (Part 2). Talk prepared by the Home Science Extension Department of the Otago University.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Uncle George and Big Brother Jack.
 6.0 : Dinner music session (Parlophone)—
 Edith Lorand's Orchestra, "Tales of Hoffman" Fantasia (Offenbach).
 Dajos Bela String Orchestra, "Goldregen" (Waldteufel) (A4238).
 Otto Dobrindt and His Symphony Orchestra, "Speak Not of Love Eternal" (Granichstaedten) (A4275).
 Dajos Bela Orchestra, "I Pagliacci" Selection (Leoncavallo) (A4090).
 Sander Joszi Orchestra, "Polo" (Petras) (A2351).
 Berlin State Orchestra, "Rustle of Spring" (Sinding) (A2735).
 Dajos Bela Orchestra, "Delirien" Waltz (Strauss) (A4182); "Count of Luxembourg" Waltz (Lehar) (A4182).

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, OCT. 7.

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

Thursday, October 8

1YA, AUCKLAND (875 KILOCYCLES)—THURSDAY, OCTOBER 8.

- 3.0 : Chimes. Selected recordings.
 3.15 : Talk—"Good Meal-Planning on an Average Income" (Part 2). Prepared by the Home Science Extension Service.
 5.0 : Children's session, conducted by Skipper.
 6.0 : Dinner music session (H.M.V.)—
 National Symphony Orchestra, "Stradella" Overture (Flotow) (Zono).
 Royal Opera Orchestra, "Faust" Ballet Music, First to Fourth Movements (Gounod) (C1462); "The Sleeping Beauty" (Tschalkowsky).
 National Symphony Orchestra, "Caucasian Sketches" No. 1—In the Mountain Pass (Ippolitoff-Iwanoff) (Zono. EF36).

- Sandor Joszi Orchestra, "Marionette's Wedding March" (Rathie).
 Dajos Bela Orchestra, "Viennese Waltz" Potpourri (Robrecht) (A4169).
 Berlin State Opera Orchestra, "Praeludium" (Jarnefeldt) (A2735).
 Dajos Bela String Orchestra, "Gold and Silver" (Lehar) (A4238).
 Mitja Nikisch and His Symphony Orchestra, "Madelon" Dream Waltz.
 7.0 : News, market reports and sports results.
 7.40 : Lecturette—Mr. Johannes Andersen, Librarian Turnbull Library, "Maori Folk Lore."
 8.0 : Chimes. Concert by Wellington Artillery Band under the conductorship of Captain T. Herd, V.D.
 March—The Band, "Ethlois" (Plater); overture, "Martha" (Flotow).
 8.12 : Baritone—Mr. S. Evelyn Rodger, (a) "Molly's Eyes" (Hawley), (b) "Snowy-Breasted Pearl" (Robinson).
 8.18 : Cornet solo with band—Sergeant W. H. Bowman, "The Nightingale."
 8.24 : Sketch—Miss Gracie Kerr and Mr. James Cooke, "The Reason Why."
 8.38 : Mezzo-soprano—Mrs. Amy Dunn, (a) "Love's Golden Dream" (Lennox), (b) "Since You Have Smiled" (Forster).
 8.39 : Bass and male chorus—Stuart Robertson, (a) "Richard of Taunton Deane" (arr. Molloy), (b) "Widdicombe Fair" (H.M.V. B3668).
 8.45 : Fantasia—Band, (a) "Sailor's Life" (arr. Cope), (b) dance, "Dance Oriental—Dance of the Dervishes" (Cohen).
 9.0 : Weather report and station notices.
 9.3 : Novelty orchestra—The Jolly Campers, (a) "The Girl from Constance" (Muller), (b) "The Rocket" Waltz (Degerman) (Parlo. A3131).
 9.8 : Baritone—Mr. S. Evelyn Rodger, (a) "She is Far from the Land" (Lambert), (b) "Maire My Girl" (Aitken).
 9.14 : Fantasia—The Band, "The Golden Age" (Greenwood).
 9.20 : Sketch—Miss Gracie Kerr and Mr. James Cooke, "Spirits" (Squire).
 9.25 : Organ—Arthur Meale, (a) "Yellow Sands," (b) "Neath the Desert Moon" (Ewing) (H.M.V. B3112).
 9.31 : Mezzo-soprano—Mrs. Amy Dunn, (a) "A Little Love Nest" (Lohr), (b) "The Birds Go North Again" (Willeby).
 9.37 : Mexican waltz—The Band, "Worship to the Beautiful" (Cordina).
 9.44 : Male quartet—The Big Four, (a) "I'm Doin' That Thing," (b) "Go Home and Tell Your Mother" (Fields and McHugh) (Col. DO295).
 9.50 : Fantasia—The Band, "Musical Fragments" (arr. Rimmer); march, "Vine House" (Greenwood).
 10.0 : God save the King.

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

- 3.0 : Gramophone recital.
 4.15 : Lecturette—"Good Meal Planning on an Average Income" (Part 2). Talk prepared by the Home Science Extension Service, Otago University.
 4.25 : Sports results.
 5.0 : Children's hour, conducted by Ladybird and Uncle Frank.
 6.0 : Dinner music session (Polydor)—
 Paul Godwin's Orchestra, "Rejoicings" March (Schweitzer) (19512); "Coppelia Ballet" Fantasy (Delibes) (19505).
 Polydor String Orchestra, "Offenbachiana" (Conradi-Daebnitz) (19687).
 Mandolin and Lute Orchestra, "Minuet in G" (Beethoven) (21622).
 Paul Godwin's Quartet, "Le Reve" (D'Ambrosio) (19532).
 Paul Godwin's Orchestra, "The Divorced Lady" Medley (Fall) (19521); "Aubade" Serenade (Schweitzer) (19512).
 Great Symphony Orchestra, "Vienna Operetta Revue" (Robrecht).
 Mandolin and Lute Orchestra, "Norwegian Dance" (Grieg) (21622).
 Paul Godwin's Quartet, "Beautiful Garden of Roses" (Schmid).
 7.0 : News session.
 7.15 : Dialogue—Messrs. E. E. Wiltshire and F. C. Fairclough, "The Story of the Garden."
 7.30 : Talk—Mr. M. J. Scott, Lincoln College, "Pigs."
 7.45 : Talk—Mr. J. P. Whatman, "The Nurse Maude Association."
 8.0 : Chimes. Specially recorded international programme.
 Dr. Eugene Ormandy and His Salon Orchestra.
 International Singers.
 Abroad with the Lockharts.
 Weather report and station notices.
 International talk—Mr. A. C. Brassington, LL.B., "The Problem of Law and War."
 Ambassadors of Melodyland.
 Hy-wide and Handsome.
 Nat Brusiloff and His Lido Venice Orchestra.
 God save the King.

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

SILENT DAY.

Friday, October 9

1YA, AUCKLAND (875 KILOCYCLES)—FRIDAY, OCTOBER 9.

- 3.0 : Chimes. Selected recordings.
 3.15 : Literary selection.
 5.0 : Children's session, conducted by Nod and Aunt Jean.
 6.0 : Dinner music session (Parlophone)—
 Dajos Bela Orchestra, "Trust" Waltz (Gonnod) (A4010).
 Major Bowes' Capitol Theatre Trio, "My Isle of Golden Dreams."
 Raie da Costa Ensemble, "Rag Doll" (Brown) (A2677).

- Berlin State Opera Orchestra, "The Mastersingers" Overture.
 Barnabas von Gezy and His Orchestra, "Pardon, My Lady" Tango.
 Dajos Bela Orchestra, "Vienna Bon Bons" Waltz (Strauss) (A4056).
 Grand Symphony Orchestra, "Polonaise No. 1 in A" (Chopin) (A4089).
 Raie da Costa Ensemble, "Laughing Marionette" (Collins) (A2677).
 Pavilion Lescaut Tango Orchestra, "In a Little Cafe" Tango (Neubach).
 Major Bowes' Capitol Theatre Trio, "Pale Moon" (Logan) (A2593).
 Dajos Bela Orchestra, "The Swallows" Waltz (Strauss) (A4010).
 Grand Symphony Orchestra, "Hungarian Dances, Nos. 5 and 6."
 Frank Westfield's Orchestra, "The New Sullivan Selection" (A2679).
 Dajos Bela Orchestra, "Roses of the South" Waltz (Strauss) (A4056).

- 7.0 : News and market reports.
 7.40 : Talk—"Sports Talk."
 8.0 : Chimes. Medley—Paul Godwin's Orchestra, "The Circus Princess."
 8.9 : Bass-baritone—Mr. A. Gibbons Taylor, (a) "The Lass that Loves a Sailor" (Dibdin); (b) "The Owl is Abroad" (Purcell).
 8.15 : March—Salon Orchestra, under direction of Mr. Harold Baxter, "Deathless Army" (Trotter); suite, "In a Fairy Realm" (Ketelbey).
 8.29 : Cello—Cedric Sharpe, "Harlequin and Columbine" (Woodworth—arr. Sharpe) (H.M.V. B2413).
 8.32 : Soprano—Miss Valerie Peacocke, (a) "Yesterday and To-day" (Spross); (b) "Song of Florian" (Godard).
 8.38 : Banjo—Mr. G. Cornes, (a) "Colonel Bogey" March (Alford); (b) "Foxtrot and Waltz Medley" (arr. Cornes).
 8.48 : Male choir—Westminster Glee Singers, (a) "Nellie Grey" (arr. Branscombe); (b) "Breeze of the Night" (Lamothe) Parlo. A2992).
 8.54 : Orchestral—Salon Orchestra, "Potted Overtures" (Engleman).
 9.2 : Evening weather forecast and announcements.
 9.4 : A sea story—"Lee Fore Brace." "The Mystery of the Marie Celeste."
 9.24 : Fantasia—Salon Orchestra, "Happy Days in Dixie" (Bidgood); suite, "Romantique" (Ketelbey).
 9.40 : Soprano—Miss Valerie Peacocke, (a) "To You" (Speaks); (b) "Hayfields and Butterflies" (Del Riego).
 9.46 : Organ—Edward O'Henry, "Selection of Wilfred Sanderson's Popular Songs" (Sanderson) (H.M.V. B3551).
 9.52 : Bass-baritone—Mr. A. Gibbons Taylor, (a) "Bashful Tom" (Kemp); (b) "Father O'Flynn" (Stanford).
 9.57 : Orchestral—Salon Orchestra, "Hungarian Romance" (Bendix).
 10.1 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, OCTOBER 9.

- 10.0 : Chimes. Selected gramophone recordings.
 11.12 : Lecturette—"Fashions"
 12.0 : Lunch hour music.
 2.0 : Selected recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Uncle Jim.
 6.0 : Dinner music session (H.M.V.)—
 String Orchestra, "Overture to Arundel Suite" (Brown) (B3514).
 Cedric Sharpe Sextet, "Love's Old Sweet Song" (Molloy) (C1894).
 Salon Orchestra, "By the Light of the Stars" (Shay) (B2225).
 Marek Weber and His Orchestra, "My Darling" Waltz (Waldeufel).
 Organ—Jesse Crawford, "La Borrachita" (Fernandez Esperon).
 The London Palladium Orchestra, "Vivienne" (Finck) (B3466).
 De Groot and His Orchestra, "Une Heure d'Amour" (Alexander).
 International Novelty Orchestra, "I Love You Truly" (Bond) (B3496).
 Ferdie Kauffman and His Orchestra, "Siciliana" (Schmalstich).
 Cedric Sharpe Sextet, "Intermezzo" (Coleridge Taylor) (C1894).
 De Groot and His Orchestra, "Only For You" (Strong) (B2284).
 Salon Orchestra, "You Forgot to Remember" (Berlin) (B2225).
 String Orchestra, (a) "Almand"; (b) "Pavan," from "Arundel Suite."
 Organ—Jesse Crawford, "I Loved You Then As I Love You Now."
 Marek Weber and His Orchestra, "Rustle of Spring" (Sinding).
 International Novelty Orchestra, "Love Sends a Little Gift of Roses."
 De Groot and His Orchestra, "For Ever and for Ever" (Tosti).
 The London Palladium Orchestra, "Longing" (Haydn Wood) (B3466).
 7.0 : News, market reports and sports results.
 8.0 : Chimes. Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "The Bronze Horse" (Auber).
 8.8 : Soprano—Miss Gwladys Edwards, with orchestral accompaniment, (a) "Nightfall at Sea" (Phillips); (b) "If We Sailed Away" (Phillips).
 8.14 : Mandolin—Mrs. Mildred Kenny's Mandolin Orchestra, (a) "Rapasza Band" (Sweeley); (b) "Tangled Roses" (Lavernask).
 8.21 : Sketch—Mr. Victor S. Lloyd, "Squaring the Triangle" (Lloyd).
 8.40 : Soprano—Miss Gwladys Edwards, "Love was Meant to Make Us Glad" (German); "Music When Soft Voices Die" (Johnson).
 8.46 : Selection—2YA Orchestra, "The Gondoliers" (Sullivan).
 9.0 : Weather report and station notices.
 9.2 : Mandolin—Mandolin Orchestra, (a) "Lady, Play Your Mandolin" (Levant); (b) "Wedding Bells are Ringing for Sally" (Sherman).
 9.9 : Sketch—Mr. Victor S. Lloyd, "Snails" (Lloyd).
 9.19 : Selection—2YA Orchestra, "Poppy" (Samuels).
 9.30 : Dance programme (Columbia and Regal)—
 Foxtrots—Paul Specht and His Orchestra, "I Bring a Love Song" (Romberg) (DO298). Fred Rich and His Orchestra, "I'm the Last One Left on the Corner" (Whitehouse) (Reg. G21064). Ted Lewis and His Band, "Sobbin' Blues" (Kassel) (DO273).
 9.39 : Waltzes—Debroy Somers Band, "When it's Sunset on the Nile" (Kennedy) (DO417); "Girl of a Million Dreams" (Gilbert) (DO404).
 Foxtrot—Leo Reisman and His Orchestra, "The Three Musketeers March" (Friml) (DO834).

- 9.48: Vocal—The Trix Sisters, "I'm Crazy Over You" (Sherman) (01484).
 9.51: Foxtrots—Lloyd Keating and His Music, "Baby's Birthday Party" (Ronell) (Reg. G20954). Billy Cotton and His Band, "Walkin' My Baby Back Home" (Turk) (DO416). Van Phillips and His Band, "Oh! Donna Clara" (Petersburgski) (DO293). Denza Dance Band, "Cupid on the Cake" (Reaves) (Reg. G20954).
 10.3: Waltzes—Jack Payne and His B.B.C. Dance Orchestra, "Falling in Love Again" (Hollander) (DO293). Rudy Marlow and His Orchestra, "I'm Alone Because I Love You" (Young) (Reg. G20955).
 10.9: Foxtrots—Debroy Somers' Band, "The One-Man Band" (Weems) (DO 403). Jack Payne and His B.B.C. Dance Orchestra, "Goodnight, Sweetheart" (Noble) (DO404). Billy Cotton and His Band, "Egyptian-ella" (Doyle) (DO403).
 10.18: Vocal—Walter Kingsley, "That's When You Need a Friend" (O'Hagan).
 10.21: Foxtrots—Debroy Somers' Band, "She's Not Worth Your Tears" (Warren) (DO417). Smith Ballew and His Orchestra, "Say a Little Prayer for Me" (Nicholls) (Reg. G21083).
 10.27: Waltzes—Paul Specht and His Orchestra, "Then You'll Remember" (Romberg) (DO298). Chester Leighton and His Sophomores, "Ukulele Moon" (Davis) (G20920).
 Foxtrot—Billy Cotton and His Band, "Hello, Beautiful" (Donaldson).
 10.36: Vocal—The Trix Sisters, "My Rock-a-Bye Baby" (Leslie) (01484).
 10.39: Foxtrots—The Melodiers, "If You Should Ever Need Me" (Burke) (G21067). Fred Rich and His Orchestra, "Got the Bench, Got the Park" (Lewis) (G21064). Frank Auburn and His Orchestra, "The Little Things in Life" (Berlin) (G20955). The Melodiers, "That Little Boy of Mine" (Meroff) (G21067).
 10.51: Foxtrots—Leo Reisman and His Orchestra, "Ma Belle" (The Three Musketeers) (Friml) (DO384). Jack Albin and Hotel Pennsylvania Music, "I Miss a Little Miss" (Seymour) (Reg. G20920). Jack Payne and His B.B.C. Dance Orchestra, "The Sleepy Town Express" (Gillespie) (DO416).
 11.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, OCTOBER 2.

- 8.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour, conducted by Aunt Pat and Chuckla.
 6.0: Dinner music session (H.M.V.)—
 Vienna Philharmonic Orchestra, "Morning, Noon and Night in Vienna."
 New Light Symphony Orchestra, "Cavalleria Rusticana" Intermezzo.
 International Novelty Orchestra, "Gold and Silver" (Lehar).
 Victor Concert Orchestra, "Romance" (Tchaikowsky) (Zono. BF7).
 Philadelphia Symphony Orchestra, "Casse Noisette Suite" (Tchaikowsky); (a) Miniature Overture, (b) March, (c) Dance of the Sugar Plum Fairy, (d) Russian Dance, (e) Arab Dance, (f) Chinese Dance, (g) Dance of the Flutes, (h) Waltz of the Flowers.
 Paul Whiteman and His Concert Orchestra, "Caprice Futuristic."
 New Mayfair Orchestra, "Sons o' Guns" Selection (C1982).
 New Light Symphony Orchestra, "Barcarolle" (Offenbach) (B2377).
 International Novelty Orchestra, "Emperor" (Strauss) (Zono. BF22).
 7.0: News session.
 7.30: Dialogue—Messrs. D. Cossgrove and W. Melbourne, "Radio Service."
 8.0: Chimes. Medley—Paul Godwin's Orchestra, "Count of Luxembourg."
 8.8: Quartet—Melodious Quartet, "The Oat and the Fiddle" (Smith).
 Tenor—Mr. Russell Sumner, with Octet accompaniment, "Love Beneath the Moon" (Drigo).
 8.14: Piano and violin novelty—The Syncopators, "Rio Rita" (Tierney).
 8.20: Mezzo-soprano, with chorus—Miss Millicent Jennings, "Bells of Britany" (Lyall Phillips).
 8.23: March—Studio Octet, (a) "Tin Soldiers" (Kockert); (b) "Stradella" Overture (Flotow).
 8.34: Soprano—Miss Frances Hamerton, "From the Land of the Sky-Blue Water" (Cadman).
 8.37: Humour—Mr. J. Darragh, "In Fifteen Parts."
 8.42: Cornet, with orchestra—Mr. Norman G. Goffin, "Down the Vale."
 8.46: Baritone—Mr. T. D. Williams, with Octet accompaniment, "My Old Shako" (Trotter).
 8.50: Accordion with banjo—M. Vola and M. Appennini, (a) "Rose" Tango (Vola); (b) "Flower of Spain" (Paso-Doble) (Vola).
 8.56: Minuet—Paul Godwin's Quintet, "Doll's Minuet" (Von Blon).
 9.0: Quartet—Melodious Quartet, "Two Irish Airs" (Stuart).
 9.4: Weather forecast and station notices.
 9.6: Selection—Paul Godwin's Orchestra, "The Merry Peasant."
 9.14: Tenor—Mr. Russell Sumner, with Octet accompaniment, "I'll Sing Thee Songs of Araby" (Clay).
 9.17: Piano and violin novelty—The Syncopators, "Gilbert and Sullivan Medley" (arr. Goodland).
 9.25: Mezzo-soprano—Miss Millicent Jennings, (a) "Home is Where You Are" (Meale); (b) "Love's Wonderland" (Drummond).
 9.29: Selection—Studio Octet, "Stop Flirting" (Gershwin).
 9.35: Soprano—Miss Frances Hamerton, with Octet accompaniment, "Villanelle" (Del Acqua).
 9.42: Humour—Mr. J. Darragh, "The Raw Recruits."
 9.47: Cornet, with orchestra—Mr. Norman G. Goffin, "Killarney" (Balfe).
 9.52: Baritone—Mr. T. D. Williams, with Octet accompaniment, "Drake Goes West" (Sanderson).
 9.56: Selection—Marek Weber and His Orchestra, "Extase—Reverie."
 10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, OCTOBER 9.

- 3.0: Selected recordings.
 5.0: Children's hour, conducted by Aunt Sheila.
 6.0: Dinner music session (Parlophone)—
 Karol Szeleter, pianoforte with Berlin State Opera Orchestra, "Suite Orientale" (Popy) (A3058).
 Dajos Bela Orchestra, "You and You" Waltz (Strauss) (A4080).
 Sandor Joszi Orchestra, "The Hobgoblin's Story" (Brecht) (A3027).
 Orchestra Opera Comique, Paris, "Manon Ballet Music" (Massenet).
 Dajos Bela Orchestra, "Wiener Blut" (Strauss) (A4095).
 Berlin State Opera Orchestra, "Dance of the Hours" (Ponchielli) (A4144); "Norma" Overture (Bellini) (A4146); "Slavonic Dances, Nos. 8 and 18" (Dvorak) (A4171).
 Dajos Bela Orchestra, "Gypsy Love" Waltz (Lehar) (A4080).
 Berlin State Opera Orchestra, "La Traviata—Prelude" (Verdi).
 Dajos Bela Orchestra, "Voices of Spring" (Strauss) (A4095).
 Sandor Joszi Orchestra, "An Eastern Wedding" (Prychistal) (A3027).
 7.0: News session.
 8.0: Chimes. Medley—Polydor Symphonie Orchestra, "Hear You Again."
 8.9: Soprano—Miss Aileen Young, (a) "Blue Bells of Scotland" (Trdtl.); (b) "Hush-a-ba-Bir-die" (Bunten); (c) "O Whistle and I'll Come to Ye, My Lad" (Trdtl.).
 8.18: Saxophone—Mr. T. Law, "Down the Lagoon" (Zukueta).
 8.22: Scots humour—Mr. James Paterson, "The Picnic" (Lauder).
 8.26: Trio—Messrs. A. H. Pettitt, T. Law and Miss E. Judd, (a) "Maise" (Carlo); (b) "For Remembrance" (Byford); (c) "Old Man Blues" (Stuart).
 8.36: Bass-baritone—Mr. H. P. Desmoulin, (a) "Bandolero" (Stuart); (b) "My Old Dutch" (Ingles); (c) "The Old Road" (Scott).
 8.45: Organ—Reginald Foort, (a) "Poem" (Fibich); (b) "An Autumn Serenade" (Bece) (H.M.V. B2388).
 8.51: Contralto—Miss Helen E. Roy, (a) "If You're in Love, You'll Waltz" (Tierney); (b) "Here Comes the Sun" (Woods).
 8.57: Male quartet—De Reszke Singers, "Absent" (Metcalfe) (H.M.V. E432).
 9.0: Weather report and station notices.
 9.2: Medley—Paul Godwin's Orchestra, "Hearts and Diamonds."
 9.10: Lecture recital—"Songs and Legends of India," by John T. Leech. Illustrations by Miss Helen E. Roy (contralto), Miss Eva Judd (violiniste), Mr. John T. Leech (tenor), Miss Muriel Caddie, L.T.C.L. (accompanist).
 9.43: Trio—Messrs. A. H. Pettitt, T. Law and Miss E. Judd, (a) "Rain or Shine" (Krome); (b) "Dawn of Hope" (Byford); (c) "My Ideal."
 9.53: Humour—Mr. James A. Paterson, (a) "The Singing Wife" (Minigle); (b) "I've Found the Tobemory Treasure" (Cairns).
 9.59: Male quartet—Gresham Singers, "The Meeting of the Waters."
 10.2: God save the King.

Saturday, October 10

1YA, AUCKLAND (375 KILOCYCLES)—SATURDAY, OCTOBER 10.

- 3.0: Chimes. Selected recordings.
 3.15: Literary selection.
 5.0: Children's session, conducted by Cinderella.
 6.0: Dinner music session (Columbia)—
 London Theatre Orchestra, "Maid of the Mountains" Selection.
 J. H. Squire's Celeste Octet, "Second Movement From Symphony Pathetique" (Tchaikowsky, arr. Robertson) (02937).
 Symphony Orchestra, "When the Lemons Bloom" (Strauss) (02529).
 Plaza Theatre Orchestra, "A La Gavotte" (Finck) (01439).
 Musical Art Quartet, "To a Wild Rose" (McDowell) (01506).
 Organ—G. T. Pattman, "Alice Where Art Thou?" (trdtl.) (DO146).
 J. H. Squire's Celeste Octet, "Operatica" (arr. Squire) (DOX62).
 Symphony Orchestra, "Doctrinen" (Strauss) (02529).
 Plaza Theatre Orchestra, "Minuet" (Finck) (01439).
 Organ—G. T. Pattman, "Cinderella" Waltz (Pattman) (DO146).
 Musical Art Quartet, "Mighty Lak a Rose" (Nevin) (01506).
 J. H. Squire's Celeste Octet, "Scene De Ballet" (De Beriot, arr. Sear).
 H.M. Grenadier Guards Band, "Hyde Park Suite" (Jalowicz)—(a) Sunday Morning Church Parade; (b) Rotten Row; (c) On the Serpentine; (d) Around the Bandstand (DOX198).
 7.0: News and market reports.
 7.40: Talk (under the auspices of the N.Z. Amateur Radio Transmitters' Association) "The Progress of Radio." Speaker—Mr. J. Turnbull, (Z.L.I.B.I.).
 8.0: Chimes. Relay from the Auckland Town Hall of the Municipal Band Concert—Conductor Mr. George Buckley.
 March—The Band, "The Mad Major" (Alford); Overture, "Rosamunde" (Schubert).
 Tenor—Mr. A. G. Fogerty, (a) "Out of the Darkness" (D'Hardelot); (b) "Passing By" (Purcell).
 Cornet duet—Messrs. F. Bowes and J. Davies, "The Two Friends."
 Symphony—The Band, "Symphony No. 5 in C Minor" (First and Second Movements) (Beethoven).
 Aria—Mrs. Hal C. McLennan, Mad Scene From "Lucia Di Lammermoor" (Donizetti).
 Descriptive piano solo with band accompaniment—Master Jack Buckley, "The Clock and the Dresden Figures" (Ketelhey).
 Flute and saxophone duet—Messrs. Hal McLennan and Lye, "Serenade" (Titl).
 Tenor—Mr. A. G. Fogerty, "An Evening Song" (Blumenthal).

- A Phantasy—The Band, "The Three Bears" (Coates).
 Xylophone—Mr. Rowland Jackson, "Orchard Blossoms" (Underhill).
 Song—Mrs. Hal C. McLennan, "Love's Dream" (Liszt).
 Intermezzo—Band, "Slavonic Dances Nos. 7 and 8" (Dvorak).
 March—The Band, "Cavalry of the Clouds" (Alford).
 10.0 : Programme of Dance Music (Brunswick)—
 Foxtrots—Jacques Renard and His Orchestra, "Tie a Little String Around Your Finger" (Simons) (6082); Nick Lucas and His Crooning Troubadours, "Say Hello To The Folks Back Home" (Lombardo) (6013); Jacques Renard and His Orchestra, "I Hate Myself" (Silver) (6032).
 10.9 : Waltz—Jacques Renard and His Orchestra, "Reaching for the Moon."
 10.12 : Foxtrots—Hal Kemp and His Orchestra, "Think a Little Kindly Of Me" (Johnson) (6056); Isham Jones's Orchestra, "I'm So Afraid of You" (Kalmor) (6041).
 10.18 : Vocal—Harry Richman, "When Your Lover Has Gone" (Swan).
 10.21 : Foxtrots—Isham Jones's Orchestra, "My Ideal" (Robin) (6041); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "I Surrender Dear" (Clifford) (6034); Ben Bernie and His Orchestra, "To-morrow Is Another Day" (Green) (4899).
 10.30 : Waltzes—Nick Lucas and His Crooning Troubadours, "Falling In Love Again" (Hollander) (6048); Carter's Orchestra, "The Waltz of the Hills" (Fields) (6042).
 10.36 : Foxtrots—Nick Lucas and His Crooning Troubadours, "Lady Play Your Mandolin" (Levant) (6013); "Walkin' My Baby Back Home" (Turk) (6048); Carter's Orchestra, "When The Bloom Is On The Sage" (Howard) (6042).
 10.45 : Vocal—Harry Richman, "Just a Gigolo" (Caesar) (6052).
 10.48 : Foxtrots—Hal Kemp and His Orchestra, "I Want You For Myself" (Berlin) (6056); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "To Make a Long Story Short" (Gay) (6034); Ben Bernie and His Orchestra, "Liza Lee" (Green) (4899); Jacques Renard and His Orchestra, "Heartaches" (Klennor) (6033).
 11.0 : Sporting summary.
 11.10 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, OCTOBER 10.

- 3.0 : Chimes. Selected gramophone recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Aunt Molly.
 6.0 : Dinner music session (Columbia)—
 Regal Salon Orchestra, "Memories of Beethoven" (Beethoven).
 Plaza Theatre Orchestra, "Gipsy Suite" (German): (1) Valse (Lonely Life); (2) Allegro (The Dance) (02537).
 Columbia Symphony Orchestra, "Al Fresco" (Herbert) (01092).
 Ketelbey's Concert Orchestra, "By the Blue Hawaiian Waters."
 J. H. Squire's Celeste Octet, "Invitation to the Valse" (Weber).
 Orchestre de la Societe des Concerts du Conservatoire, Paris, "Le Ronet D'Omphale" (Saint-Saens) (02926).
 Plaza Theatre Orchestra, "Gipsy Suite" (German): (3) Menuetto (Love duet), (4) Tarantella (The Revel) (02538).
 Columbia Symphony Orchestra, "Badinage" (Herbert) (01092).
 Menorah Symphony Orchestra, "Bar Kochba" Selection (Goldfaden).
 6.54 : J. H. Squire's Celeste Octet, "Chant Sans Paroles" (Tschaiakowsky).
 7.0 : News, market reports and sports results.
 8.0 : Chimes. Programme by the Wellington Y.M.C.A. Optimists' Club, assisted by 2YA Salon Orchestra (Conductor Mr. M. T. Dixon), "Springtime Optimism."
 10.0 : Dance programme (Brunswick)—
 Foxtrots—Loring "Red" Nichols and His Orchestra, "Things I Never Knew Till Now" (Winchell) (6068); Nick Lucas and His Crooning Troubadours, "When You Were The Blossom of Buttercup Lane" (Dubin) (6045); Colonial Club Orchestra, "All On Account of Your Kisses" (Oppenheim) (6075).
 10.9 : Waltz—Bob Haring and His Orchestra, "Sing Your Way Home" (Leslie) (6009).
 Foxtrots—Colonial Club Orchestra, "Please Don't Talk About Me When I'm Gone" (Clare) (6073); Abe Lyman and His California Orchestra, "What Have We Got To Do To-night But Dance."
 10.1 : Vocal—Nick Lucas, "The Kiss Waltz" (Dubin) (X4960).
 10.21 : Foxtrots—Jack Denny and His Orchestra, "Out of Nowhere" (Heyman) (6088); Ben Bernie and His Orchestra, "When Your Lover Has Gone" (Swan); Jack Denny and His Orchestra, "Say a Little Prayer For Me" (Gilbert) (6088).
 10.30 : Waltzes—Bob Haring and His Orchestra, "Tears" (Capano) (6009); Jack Denny and His Orchestra, "The Waltz You Saved For Me" (Kahn) (6094).
 Foxtrots—Brunswick Hour Orchestra, "Amapola" (Lacelle) (6067); Abe Lyman and His California Orchestra, "In a Cafe on the Road to Calais" (Klein) (6094).
 10.42 : Vocal—Nick Lucas, "Maybe It's Love" (Mitchell) (X4960).
 10.45 : Foxtrots—Jack Denny and His Orchestra, "You'll Be Mine in Apple Blossom Time" (Tobias) (6086); Tom Gerun and His Orchestra, "By My Side" (Link) (6064); "Maybe I'm In Love With a Dream."
 10.54 : Foxtrots—Ben Bernie and His Orchestra, "I Have To Laugh" (McGowan) (6068); Nick Lucas and His Crooning Troubadours, "You Didn't Have To Tell Me" (6045).
 11.0 : Sporting summary.
 11.10 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, OCTOBER 10.

- 3.0 : Gramophone recital.
 4.25 : Sports results.

- 5.0 : Children's hour, conducted by Uncle Charlie.
 6.0 : Dinner music session (Polydor and Parlophone)—
 Paul Godwin's Dance Orchestra, "The World's Best Waltzes" Medley.
 Ilja Livschakoff's Orchestra, "Fiddler, Where is Your Home?" (23539).
 Vienna Schrammel Quartet, "Serenade" (Heykens) (21919).
 Paul Godwin's Orchestra, "Marche Grotesque" (Sinding) (22900).
 Ilja Livschakoff's Dance Orchestra, "Roses of the South" (23626).
 Organ—H. Wood, "Songs My Mother Taught Me" (Dvorak) (23304).
 Orchestra Mascotte, "Amoureuse" Waltz (Berger) (A3135).
 Paul Godwin's Orchestra, "The Clock and the Dresden Figures" (23568).
 Ilja Livschakoff's Orchestra, "Hungarian Medley" (Leopold) (23539).
 Vienna Schrammel Quartet, "Silk and Velvet" (Ziehrer) (21919).
 Paul Godwin's Orchestra, "Joy Bells" (Blauw) (22900).
 Organ—H. Wood, (a) "Song Without Words" (Mendelssohn), (b) "Adagio from 'L'Arlesienne'" (Bizet) (23304).
 Ilja Livschakoff's Dance Orchestra, "Blue Danube" (Strauss) (23626).
 Dajos Bela Orchestra, "The Grenadiers" Waltz (Waldteufel) (A4081).
 La Argentina, Castanets with Orchestra, "Dance No. 5" (A2988).
 Paul Godwin's Orchestra, "The Cathedral Bells" (Becker) (23568).
 7.0 : News session.
 7.30 : Talk—Dr. H. T. Acland, "The British Empire Cancer Campaign."
 8.0 : Chimes. Relay of programme from 4YA, Dunedin.
 10.0 : Dance music programme—
 Foxtrots—The New York Syncopators, "Lonesome Lover" (Monaco) (Parlo. A3149); Ray Seeley and His Orchestra, "You'll Be Mine in Apple Blossom Time" (Tobias) (Parlo. A3181); Harry Reser and Orchestra, "African Lament" (Lecuona) (A3182); Tampa Blue Orchestra, "Running Between the Raindrops" (Gibbons).
 10.12 : Waltz—Marimba Centro Americana, "Little Bertha" (Zono. EE233).
 Foxtrot—The Prince of Wales Orchestra, "Say a Little Prayer for Me."
 10.18 : Vocal—Lions Quartet of Seattle, "Vere is Mein Leetle Dog Gone?"
 10.21 : Foxtrots—Ray Seeley and His Orchestra, "I'm Crazy 'Bout My Baby" (Waller-Hill) (Parlo. A3179); Sam Lanin and His Famous Players, "It Looks Like Love" (Woods) (A3181); Ray Seeley and His Orchestra, "Ya Got Love" (Goodhart) (A3179); Tampa Blue Orchestra, "Soldier on the Shelf" (Myers) (A3187).
 10.33 : Waltzes—Ilja Livschakoff's Dance Orchestra, "Sometimes You Wish To" (Jurmman) (Poly. 23847); Ed. Loyd and His Orchestra, "Reaching for the Moon" (Berlin) (Parlo. A3128).
 Foxtrots—"On a Little Balcony in Spain" (Klein) (A3148); Louis Armstrong and His Orchestra, "Body and Soul" (Heyman) (A3199).
 10.45 : Vocal—Lions Quartet of Seattle, "O Dem Golden Slippers" (Col. 01705).
 10.48 : Foxtrots—Tampa Blue Orchestra, "Would You Like to Take a Walk?" (Warren) (Parlo. A3188); Sam Lanin and His Famous Players, "Ninety-nine out of a Hundred" (Sherman) (Parlo. A3148).
 10.54 : Waltz—Marimba Centro Americana, "Desires of the Soul" (Zono.).
 Foxtrot—Hotel Pennsylvania Orchestra, "Loving You the Way I Do."
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, OCTOBER 10.

- 12.30 : Results of Dunedin Jockey Club's meeting held at Wingatui.
 5.0 : Children's hour, conducted by Aunt Anila.
 6.0 : Dinner music session (H.M.V.)—
 Cedric Sharpe Sextet, "O, Lovely Night" (Ronald) (B3429).
 Berlin State Opera Orchestra, "A Midsummer Night's Dream" Overture
 Lola Pretty One." (b) Romance—"Mother, You Know the Story";
 De Groot and the Piccadilly Orchestra, "If Only I Had You" (B2713).
 Organ—Jesse Crawford, "I'll Close My Eyes to the Rest of the World."
 Kirilloff's Balalika Orchestra, "Medley of Old-Time Songs" (Zono.).
 The Palladium Orchestra, "La Siesta" Barcarole (C1814).
 De Groot's Trio, "Paraphrase of Strauss Waltzes" (B3457).
 Berlin State Opera Orchestra, "A Midsummer Night's Dream"—Wedding March (Mendelssohn) (C1884).
 Cedric Sharpe Sextet, "Chanson Napolitaine" (D'Ambrosio) (B3429).
 De Groot and the Piccadilly Orchestra, "Lolita" (B2713).
 The Palladium Orchestra, "The Grasshoppers' Dance" (Bucalossi).
 Organ—Jesse Crawford, "How Am I to Know?" (King) (EA699).
 The Rhythmic Eight, "Neapolitan Nights" (Zamecnik) (Zono. EE106).
 7.0 : News session.
 8.0 : Chimes. Medley—Paul Godwin's Orchestra, "Short, but Delicious."
 8.9 : Mixed quartet—The Melodists, (a) "Give Yourself a Pat on the Back" (Wallace), (b) "The Hup That Once" (arr. Stewart).
 8.16 : Saxophone—Mr. J. McGee, "Nola" (Arndt).
 8.19 : Chorus and orchestra—The Comedy Singers, "Mister Cinders" Vocal Gems (Ellis-Myers) (Reg. G20715).
 8.25 : Banjo—Mr. Oliver Stokes, "Il Balen Del Suo Sorriso" (Verdi).
 8.29 : Humour in song and story—The Two Bing Boys, "Our Turn Next."
 8.43 : Pipes—Pipe-Major A. McMillan, "Scots Selection" (trdrl.).
 8.49 : Duet—Miss E. Hayden and Mr. R. B. Macdonald, "Cross Your Fingers."
 8.53 : Musical saw—Mr. W. G. Carey, "Minnet" (Beethoven).
 8.57 : Solo and chorus—The Melodists, "Why?" (Coots).
 9.0 : Weather report and station notices.
 9.2 : Band—Band of H.M. Royal Air Force, "Songs of Britain" Selection.
 9.10 : Quartet—The Melodists, "Telling it to the Daisies" (Young).
 9.14 : Banjo—Mr. Oliver Stokes, (a) "Savoy Rag" (Mantell), (b) "Tune-tonic" (Grimshaw).
 9.19 : Bass—Mr. R. B. Macdonald, "The Drum-Major" (Newton).
 9.23 : Humorous sketch—Clapham and Dwyer, "Photography" (Col. DO255).
 9.30 : Chorus—The Melodists, "Sleepy Seas" (Stoneham).
 9.34 : Musical saw—Mr. W. G. Carey, (a) "Aloha Oe" (trdrl.), (b) "Just a Cottage Small" (Hanley).

- 9.30: Chorus with orchestra—Light Opera Company, "King of Jazz" Vocal Gems (H.M.V. C1900).
 9.43: Saxophone—Mr. J. McGee, "Saxopeal" (Dunn).
 9.48: Quartet—The Melodists, "John Peel" (Williams).
 9.51: Pipes—Pipe-Major A. McMillan, "Scottish Airs" (trdtl.).
 9.59: Band—Band of H.M. Coldstream Guards, "Belle of New York."
 10.3: Dance music session (Polydor)—
 Foxtrots—Marimba Original Excelsior de Guatemala, "Vamos al Merendon" (Jorga Vasquez) (21903); Ben Berlin's Dance Orchestra, "First the Right Leg" (Kollo) (23394); "Very Good Chum."
 10.12: Waltz—Ilja Livschakoff's Dance Orchestra, "You've Been My Lucky Star" (Stolz) (23400).
 Foxtrots—Ben Berlin's Dance Orchestra, "Just You" (Nelson) (23394); Paul Godwin's Dance Orchestra, "Both You and Myself" (23326).
 10.21: Vocal—Jack O'Hagan, "Rambling Down the Roadway" (O'Hagan).
 10.24: Tangos—Jose M. Lucchesi and His South American Orchestra, "Alla va el Caldo" (Pippo Rache) (22080); "La Voz del Viento" (Lucchesi) (22059); "Amargura" (Lucchesi) (22060).
 Waltz—Paul Godwin's Dance Orchestra, "Good-bye" (Spoliansky).
 10.33: Foxtrots—Ben Berlin's Dance Orchestra, "To Begin with a Big Question Mark" (Heymann) (23533); "Hallo, Sweet Lady" (Heymann) (23534); "My Heart is Longing for You" (Heymann) (23533).
 10.42: Vocal—Jack O'Hagan, "With My Guitar and You" (Harris) (DO180).
 10.45: Tangos—Marimba Original Excelsior de Guatemala, "Nubes de Humo" (21905); Ilja Livschakoff's Dance Orchestra, "The Tale of Good Fortune" (Stolz) (23400); Jose M. Lucchesi and His South American Orchestra, "Soledad" (Coppola) (22076).
 10.54: Foxtrots—Marimba Original Excelsior de Guatemala, "Bomberos" (21903); "Mi Perrito" (Pearly Chagnon) (21905).
 11.3: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, OCT. 10.

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

Sunday, October 11

IYA, AUCKLAND (875 KILOCYCLES)—SUNDAY, OCTOBER 11.

- 3.0: Relay from the Auckland Town Hall of the Sunday School Anniversary of the Beresford Street Congregational Church.
 6.0: Children's Song Service, conducted by Uncle Leo.
 7.0: Relay of service from St. Andrew's Church. Preacher: The Rev. Ivo Bertram. Organist and choirmaster: Dr. Nell McDougall.
 8.30 (approx.): March—Paul Godwin's Orchestra, "Egyptian March."
 Tenor—Mr. Ralph H. Eskrigge, with orchestral accompaniment, (a) "Nightfall at Sea" (Phillips); (b) "Pale Moon" (Logan).
 Piano—Miska Levitski, "La Campanella" (Liszt) (H.M.V. D1439).
 Orchestral—Salon Orchestra (under direction of Mr. Harold Baxter).
 "A Children's Overture" (Quilter); "Bai Masque" (Fletcher).
 Contralto—Miss Phyllis Gribbin, with orchestral accompaniment, (a) "The Mere" (Doreen); (b) "Slumber Song of the Madonna."
 Evening weather forecast and announcements.
 Orchestral—Salon Orchestra, (a) "Nocturne" (Karganoff); (b) "Serenade from King Christian" (Sibelius).
 Tenor—Mr. Ralph H. Eskrigge, with orchestral accompaniment, (a) "For You Alone" (Geehl); (b) "Macushla" (Macmurrrough).
 Chorus with orchestra—Chorus and Orchestra of L. Scala, Milan, "Cavalleria Rusticana" Introduction (Mascagni) (Parlo. A3134).
 Orchestral—Salon Orchestra, (a) "Scherzo" (Centola); (b) "Angelus from Scenes Pittoresques" (Massenet).
 Contralto—Miss Phyllis Gribbin, with orchestral accompaniment, (a) "Fairy Laundry"; (b) "Love the Jester" (Phillips).
 Orchestral—Salon Orchestra, "Slavonic Dance No. 9" (Dvorak).
 Cello—Beatrice Harrison, (a) "The Broken Melody" (Van Biene); (b) "Harlequinade" (Popper) (H.M.V. C1626).
 Selection—Salon Orchestra, "Il Trovatore" (Verdi).
 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, OCTOBER 11.

- 3.0 to 4.30: Relay from Vivian Street Baptist Church of special service of the New Zealand Baptist Union Congress. Speaker: Reverend L. A. North, of Christchurch. Organist: Mr. Chas. Collins.
 6.0: Children's Song Service, conducted by Uncle George, assisted by the Children's Choir from the Maranui Methodist Church.
 7.0: Relay of Evening Service from Taranaki Street Methodist Church (Anniversary Service). Preacher: Rev. T. R. Richards. Organist: Mr. Clement Howe. Conductor: Mr. W. E. Howe.
 8.15 (approx.): Relay from Grand Opera House of Band Concert by the Port Nicholson Silver Band (Conductor, Mr. J. J. Drew).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, OCTOBER 11.

- 3.0: Gramophone recital.
 5.30: Children's song service by children of Anglican Sunday Schools.

- 6.15: Chimes.
 6.30: Selected recordings.
 7.0: Relay of evening service from Holy Trinity Anglican Church, Avon-side. Preacher: Rev. O. Fitzgerald. Organist and Choir Conductor: Mr. Arthur Lilly, A.R.C.O.
 8.15: Studio programme—Operatic Recital by Hubert Carter (Tenor), assisted by Miss Merle Miller (mezzo-soprano), Mrs. Esme Stevens (soprano), Miss Lilian Harper (at the piano).
 Intermezzo—New Light Symphony Orchestra, "Jewels of the Madonna" (Act 3) (Wolf-Ferrari) (H.M.V. C1945).
 8.18: Tenor—Mr. Hubert Carter, (a) "Le Reve Des Griefux" (Manon) (Massenet), (b) "Cavatina—Ah! Fairest Dawn Arise."
 8.24: Cello—Mr. Harold Beck, (a) "Can Ye Sew Cushions?" (Scottish, arr. Rowley), (b) "Minuet" (Mozart).
 8.30: Mezzo-soprano—Miss Merle Miller, "Air De Salome"; "Il Est Doux Il Est Bon" (from "Herodiade") (Massenet).
 8.35: Harp—Mr. H. G. Glaysher, "Reverie" (John Thomas).
 8.38: Selection from "Cavalleria Rusticana" (Mascagni): (a) Siciliana—"O Lola Pretty One," (b) Romance—"Mother, You Know the Story"; (c) Scena and Duet—"What Then, Santuzza"; Santuzza, Miss Merle Miller; Lola, Mrs. Esme Stevens; Turridu, Mr. Hubert Carter. Harp obbligato to "Siciliana" by Mr. H. G. Glaysher.
 8.54: Cello—Mr. Harold Beck, "Gavotte" (Popper).
 8.58: Tenor—Hubert Carter, (a) "Your Tiny Hand Is Frozen" (Puccini); (b) "La Donna E Mobile" (Verdi).
 9.3: Weather forecast and station notices.
 9.5: Banjo—Bloy's Banjo Band, (a) March—"The Garden City" (Wol-edge); (b) International Medley (arr. Bloy); (c) Negro Spiritual—"Steal Away" (Burleigh, arr. Bloy); (d) "Popular Choruses."
 9.25: Baritone—Mr. Olive Hindle, "King Charles" (White).
 9.29: Male Choir—Lay Vicars of Westminster Abbey, "Mother o' Mine."
 9.32: Harp—Mr. H. G. Glaysher, "Echoes of a Waterfall" (John Thomas).
 9.35: Selection—Marek Weber's Orchestra, "I Pagliacci" (Leoncavallo).
 9.43: Baritone—Mr. Olive Hindle, (a) "Plymouth Hoe" (Lennard), (b) "Spanish Gold" (Fisher).
 9.50: Piano—Una Bourne, (a) "Berceuse Arabe" Op. 166; (b) "Nocturne" Op. 165 (Chaminade) (H.M.V. B2524).
 9.56: Band—Creator's Band, "Grand March and Finale From 'Aida'."
 10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, OCTOBER 11.

- 3.0: Selected recordings.
 5.30: Children's Song Service, conducted by Big Brother Bill.
 6.15: Instrumental recordings.
 6.30: Relay of Evening Service from St. John's Anglican Church, Roslyn. Preacher: Ven. Archdeacon W. Fitchett, M.A. Choirmaster: Mr. W. H. Allen.
 7.45: Selected recordings.
 8.15: Relay of Concert Programme from 3YA, Christchurch.
 10.0: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, OCTOBER 11.

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

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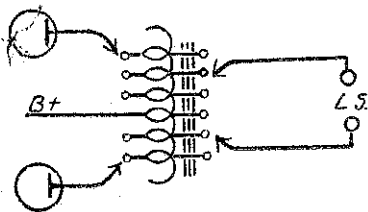
58-62 VICTORIA STREET

WELLINGTON.

more volume than previously, for the simple reason that the volume can be split up between two valves instead of one.

2. The amount of bias that can be applied between G.B. and earth is double, or more, than for the single valve. The reason is not apparent without the use of valve charts, but it is such that, not only can a greater bias be applied, but also, by applying greater bias, greater signal variation can be applied to each valve, so that really we put on far more than double the voltage (a.c.) to the grid than we could have to one valve.

3. Less plate current. Because a higher grid bias can be used, the plate current is automatically diminished. This makes push-pull amplification admirably suited to receivers which de-



Using a tapped choke instead of a transformer in a push-pull amplifier.

pend entirely on batteries for their supply of current.

4. Because of the compensating action of the two valves, certain forms of distortion will balance out and leave true reproduction of the input voltages.

5. When the amplifier is operated with a.c. on the filament, hum will be, to a large extent, balanced out.

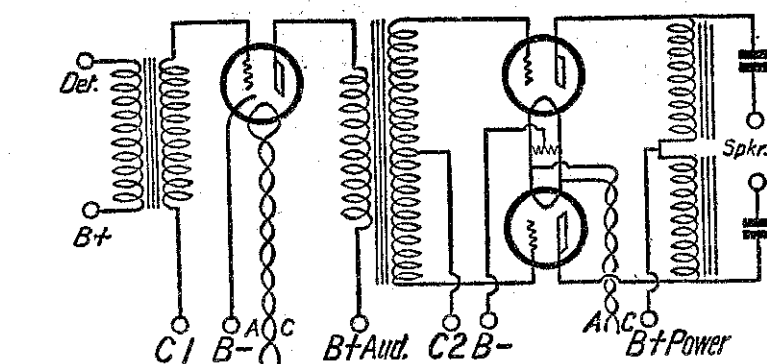
6. The valves must be carefully matched.

7. A push-pull amplifier requires twice the input grid voltage required by a single valve of the same type, if the push-pull arrangement is to show an advantage over a single valve in volume of output.

8. Ordinary transformers may be used instead of the split primary and split secondary type by connecting them as shown in the diagram. Resistances across the secondary of the input transformer should be about 500,000 ohms. The output transformers are two ordinary audio transformers of the same ratio.

9. Remedies for incorrect design may take the form of a .0001 to .00025 mfd. condenser between the grid of the push-pull valve and the centre tap or a 0 to 100,000 ohms resistance across the same position. A tone control, consisting of a .05 condenser, and a 200,000 ohms resistance can be employed in series between the grids of the valve.

10. A tapped output impedance can take the place of the output transformer. In this case, however, match-

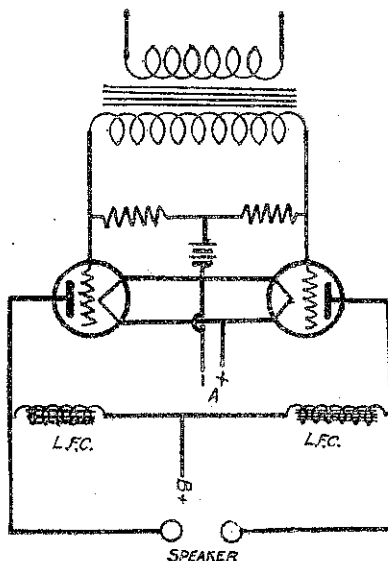


An A.C. Push-pull Amplifier, using an output filter in the place of a transformer.

ing is not possible, and consequently the system should not be employed unless the plate resistance of the valves being used is within the limits of 80 to 125 per cent. of the speaker output impedance in ohms. With low impedance valves and a high impedance speaker there will be opposite relation and an impedance matching output transformer should be used.

Accompanying this article are several diagrams of push-pull amplifiers.

THE A.C. set follows the general lines laid down in the earlier articles in this series, only, instead of employing valves with a directly heated filament, a slightly different arrange-



A P-P Coupling, using an ordinary intervalve transformer and L.F. chokes.

ment is employed, whereby the electron emitting body is indirectly heated because of its proximity to a wire which is heated by a.c. voltage. Very few valves indeed can have their

heaters come in direct contact with the mains and, in order to reduce the mains voltage to a suitable value, a step-down transformer must be employed.

With the plate circuit, however, we cannot employ pulsating current (alternating current is pulsating), and we must take steps to rectify and smooth the A.C. current from the mains.

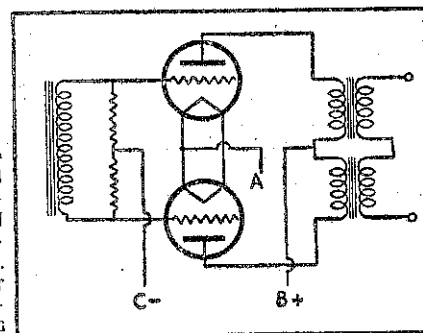
For a moment we shall look at a typical power pack and see what happens. Between all A.C. radio apparatus and the mains themselves there must be employed a transformer. It is against the regulations to use anything else. This transformer will alter the A.C. mains voltage to whatever we require. If we are designing an ordinary set we shall want something like 180 to 250 volts smoothed, for the plate supply, therefore the secondary of the power transformer must be able to supply this. Grid bias must be added to the plate voltage and allowed for in winding or designing the transformer high voltage secondary coil. Furthermore, certain losses will be occasioned by the chokes and the rectifier, although in modern rectifying valves the loss in voltage is very small.

The secondary is then wound to supply, say, 60 to 100 volts extra, as the case may be. The voltage developed across this secondary will be in proportion to the number of turns wound on and the amount of current available will depend upon several factors, not the least of which is the diameter of the wire used in the secondary winding. This voltage is a.c., and as such is useless for plate supply. It must then be changed to direct current. This is brought about by rectification, a sys-

tem by which the reverse pulsations are cut out, leaving the current to flow in one direction only. The current is still rising and falling in voltage, but is not reversing, as ordinary pulsating current does. In order to rectify the current a special valve is generally employed in what is known as a full-wave circuit.

The connections for this are as shown. The ends of the high-voltage secondary go to the plate of the full-wave rectifier and the centre tap of the filament winding of the rectifier supplies the high-tension positive. The centre tap of the secondary winding is the negative. Now between this + and - we have a d.c. voltage of a slightly lower voltage than that developed by the secondary. If we were to use this in the set hum would be present to a marked degree. We must have some means of smoothing or ironing out these pulsations. This is done by a combination of chokes and condensers. A choke we have described, and usually two of these are employed with condensers on either side of them, the other side of the condensers connecting with earth and high-voltage secondary centre tap. At the end of this filter we have smooth current of a voltage equal to that delivered by the secondary, less that dropped in the rectifier and the chokes.

This high voltage may be applicable to one valve, but we require a variation in the voltages supplied throughout the set, so resistances must be used. You will remember that when current passes through a resistance, the voltage is dropped according to the value of the resistance, and by using suitable resistances in the circuit we can drop the voltage to whatever is required. Thus we can turn



A P-P Coupling, employing ordinary transformers.

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.0001 Mica Condenser and Clips, 2/- each.

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.0003 Var. Condenser, 9/6.

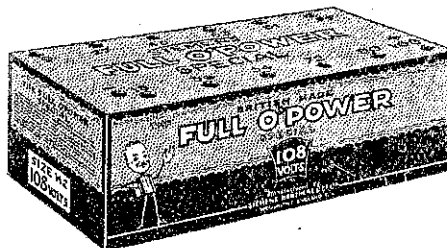
.0003 Var. Condenser, with 200-1 Vernier, 15/-.

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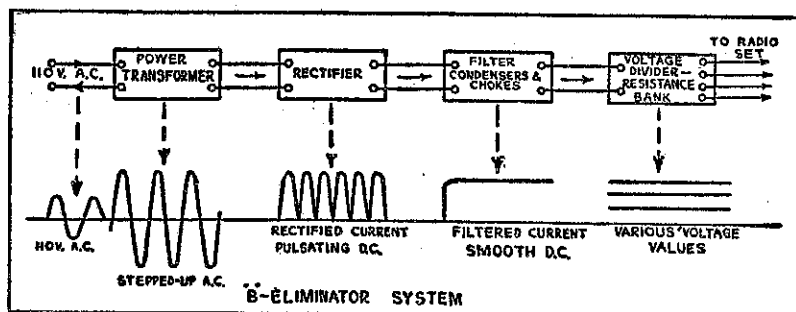
the a.c. voltage from the mains to any value of direct current.

Recapitulation

AND now, perhaps, we can see, even if vaguely, how a set as a whole operates, and how the various components play their part in converting the weak, rapidly oscillating current radiated by the station, into real music and speech. We have seen how the aerial collects as many of the vibrations as possible, and how, in spite of the fact that these impulses are only too ready to skip the short distance between the aerial and the earth, they are passed on to the set. The aerial coil and the tuning condenser select the station desired by the operator, and they are passed to the grid of the first valve. They are magnified by this and the following valves until they are ready to be detected. Magnification before the detector is spoken of as high frequency or radio amplification. A coil and a valve suitably connected are known as a stage. It is a tuned stage if a condenser is used across the coil.

When the signals reach the detector their form is altered. The rapidly pulsating vibrations which have carried the slower currents from the transmitting station are no longer wanted, and they are stripped away.

Further magnification takes place by means of transformers (usually) and



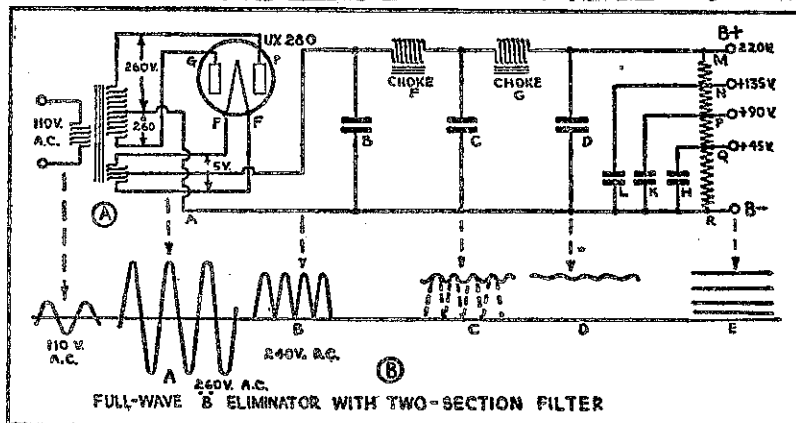
This sketch illustrates the principle of the eliminator. Note that there are four distinct groups of apparatus.

valves until the signals are strong enough to work a loudspeaker. The current in the audio stages should be the exact replica of the current in the microphone. It is the disturbances caused by the voice or instrument changed into electrical vibrations. If these electrical vibrations are reconverted into sound we can hear, and the miracle of radio has been performed. This last step is performed by the loudspeaker.

Before a signal can be magnified power must be utilised, and this may be

supply is direct, and as the mains voltages are a.c., a system of rectification has to be employed. Usually the rectification process is carried out by a valve, but this valve in no way magnifies the current, so that when we speak of an eight-valve set "including a rectifier," a seven-valve set is really meant. The eighth valve can be regarded as the modern high tension or B battery.

We now come to the end, and it is hoped that some, at least, have a little more insight into the working of a radio receiver than they had previously.



If you have studied the diagram at the top of the page you will have no difficulty in recognising the components in this eliminator circuit, and in understanding how they work.

drawn from batteries or the mains. Both systems are very similar. In the battery type of set, the filaments of the valves are heated by a direct current of electricity. In the mains valve the filament is heated because of its proximity to a wire, kept hot by virtue of its being connected with the mains through a suitable transformer. If we applied this current directly to the filament there would be a hum. In both battery and a.c. set the high voltage

It is hoped, too, that theoretical radio diagrams will present less of a puzzle than they did formerly.

A RECITAL is to be given at 3YA on Sunday, October 11, by Hubert Carter, the well-known tenor. Associated with him will be Merle Miller (mezzo-soprano) and Esme Stevens (soprano). 'Cello and harp solos will be included in the programme.

N.Z. Short-wave Club Notes

IN reply to numerous letters from members and non-members, and, in due fairness to the amateurs who have been helping the cause of radio by means of club notes and technical data, I have to explain that, owing to an error in my last notes, it appeared that the stations concerned were conducting broadcasts. This was not the case, as they have been most particular in conforming to the regulations; any notes which I sent out were given on the understanding that the operator could excuse anything that might appear to constitute a breach.

It must be admitted that all radio clubs, whether transmitting, short-wave or DX, are encouraging and advancing radio in New Zealand. Doubtless the movement is educational. The clubs, in their own particular sphere, are swelling the number of license-holders and helping to create employment. Therefore, the more publicity the clubs receive, the more popular radio will become.

Each year sees more boys entering the field of radio. They are eager to learn and, by talking of what they know and what they hear, help to increase the popularity of radio. In this connection the Y.M.C.A., by means of their hobbies competition, are serving the purpose of not only encouraging an educational and useful hobby, but are helping radio generally.

The main object of the New Zealand Short-wave Club is the advancement and the betterment of radio in New Zealand. While we keep our members posted monthly with the latest news and lists of stations, we endeavour to assist all short-wavers, especially those who are unfortunately out of work and those situated in the backblocks, where the mails may be delayed.

I have to thank the many who have written, also those who are reporting to the "Log" and "Record" short-wave page, for their notes, enabling us to check up information that otherwise might be missed.—Yours, A. B. McDonagh, Secretary N.Z. Short-wave Club, 274 Cuba St., Wellington.

Empire Broadcasting

A LONDON paper mentions "a report from a very reliable source that the B.B.C. is about to start important shortwave experiments. . . short-wave transmissions on 18 metres are being prepared at Daventry," as "they are feeling rather sore at the way their Empire broadcasting scheme has been shelved by the Colonial Office."

THE installation of "Masonite" throughout the walls of the 1YA studios is completed, and the station and transmission rooms are now being renovated. In addition to improving the sound effects greatly, the "Masonite" is also a noticeable improvement decoratively.

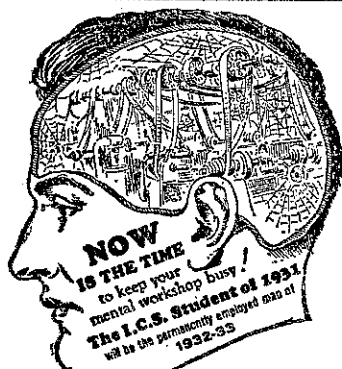
FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 50 words, and twopence for every other word thereafter.

A MATEUR Transmitting Station ZL2GN for Sale, complete with transmitter with 100 watts input, over-size power supply, receiver, monitor, and quantity of sundry spare parts. Guaranteed first-class order. Genuine bargain at £45 cash. E. Humphrey, Levin.

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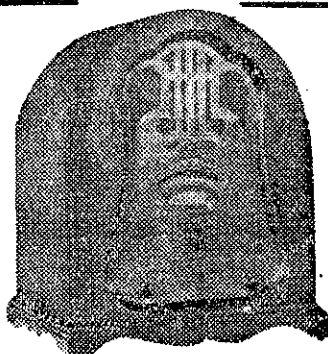
Sirs.—Please send me free prospectus giving full particulars of all branches of the profession or occupation before which I have marked X (If your subject is not on this list, write it here).

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| —Building Contractor, | —Advertiser (any branch) |
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LYRATONE MODEL 63 SUPERHETERODYNE

8

Free Airship Balloons for the kiddies.

Write your nearest dealers and obtain Balloon FREE!

DEALERS ALL OVER N.Z.

Wholesale: **CRAWFORD & FINLAYSON LTD.**

BOX 675, WELLINGTON.

Retail: **F. J. W. FEAR & CO., LTD.**

WILLIS STREET, WELLINGTON. Phone 41-446

A Tropic Wonderland

(Continued from page 3.)

forest. Amid such surroundings the ancient builders selected, some twenty years before King Alfred made history in Wessex, a low hill, and on it and around it they raised a structure as massive as a pyramid, but representing an infinitely finer achievement because on Boro Boedoe there are nearly two miles of sculptured bas-reliefs rising terrace by terrace and telling the story of the Buddhist faith. It is magnificently conceived and executed.

Apart from 1460 exquisitely sculptured reliefs, fully 10ft. tips, the believer sees as he turns each corner over 400 statues of the Buddha enthroned in niches. Finally he leaves the square terraces, where no longer does he find sermons in stones, but he has reached the realms of contemplation. As I have written elsewhere, Borohidur is one with the infinite; it is a spiritual conception; religion expressing itself in beauty, and there is over it the calm and contemplation that invests a Gothic cathedral.

I should like to tell you much more about native customs, arts and crafts, their music and drama, but I am afraid my time is drawing to an end. Perhaps at some future date I may be privileged to lift the veil a little on these fascinating topics. One could make an interesting story out of the Atyeh proverb illustrating woman's heaven is under the soles of her husband's feet."

If time permitted I should like to tell you about the terraced rice fields and some of the legends and superstitious ceremonial attaching to the growth and replanting of the crop. It will be easier for me to say a word or two about the tea plant and its culture. The tea plant is quite hardy and can be grown on different soils, at varying altitudes, and under all kinds of climatic conditions. It thrives best in Java at 6000 feet above sea-level. Prodigious quantities are produced, mainly in the Preangi Regencies. One fertile plantation of some 2000 acres produces 2½ million lb. per year.

The most delicate part of the work in the plantations is the plucking of the leaves, as this has to be done by hand. Only women are employed as pluckers, and their deftness is amazing. Every shrub is plucked once in ten days and it is only the youngest leaves that are picked, three on a stalk of which the top one must still be folded. The lower leaves on even

Radio Rapidly Developing in Mexico

Serious Interference Problem

RADIO, and particularly broadcasting, has begun to assume the aspect of an important industry in Mexico (states the "New York Herald Tribune"). With more than thirty stations operating south of the Rio Grande, Mexican programmes are beginning to be interspersed with programmes transmitted by United States and Canadian stations, thus giving rise to a problem of interference not contemplated at the time wavelengths for broadcasting were distributed among countries of North America.

Considerable complaint already has reached radio officials in both the United States and Canada, and there is some likelihood that within the next year there will be called a North American radio conference to discuss allocation of frequencies on the continent.

Most of the stations in Mexico are operating on either American or Canadian wavelengths, resulting in considerable interference. The country has not in the past participated in the conferences at which distribution of channels was made, and therefore is not bound by compact to the use of certain wavelengths.

Mexican Radio Interest.

IN the past Mexico has not been recognised as a country interested in radio broadcasting. While there have been several stations there, dating as far back as 1924, they were seldom heard in the United States.

young shoots are too old and hard to manufacture into tea. After being spread to wither for 24 hours, the next process is rolling in a rapidly rotating cylinder which breaks down the cells and liberates fragrant juices. Next comes what is called fermentation, but what is really oxidation. Their colour turns from green to yellow, and then to a bronze brown. After a second rolling and drying, mechanical sifters sort the tea into various grades and qualities. The London market, for example, demands a very finely broken tea; the Dutch prefer much coarser leaves.

It is certainly an arresting thought to realise that every leaf in the teapot has been plucked by hand.

Listening in the country has been confined to a few who are able to afford American-built receiving sets.

The principal cause of the increased interference from Mexican stations is the new transmitter recently constructed several miles from Mexico City. The station is popularly known by its call letters XEW, and is being heard nightly by a large number of listeners. The station operates on a wavelength of 384.7 metres, which is slightly below the channel utilised by WJZ. While signals from the station are not distinguished while WJZ is transmitting, they may be heard distinctly with the average receiving set after the latter station signs off for the evening.

The station, which designates itself as "The Voice of Latin America," is owned and operated by the Mexico Music Company, and is located within a few miles of Mexico City. Reports indicate that the company which erected the station has hopes of establishing a network of stations in Mexico along the same lines as the networks now operating in the United States.

If plans materialise, it is expected that an exchange of programmes between the United States and Mexico will eventually take place. The company which operates the new transmitter also operates station XBT, a 500-watt station.

Transmitting with a power of 5000 watts, station XEW is readily audible in the United States and Canada. The station is the most powerful in Mexico, and is believed by officials to mark the beginning of a new era of broadcasting in the country.

The transmitter itself is located about eight miles out of Mexico City, and is linked by line wire to studios within the heart of the city. Aerial towers are 300 feet high and may be seen for miles around the adjacent country.

Studios are designed similar to those used by American stations, having walls of sound-absorbing material to prevent reverberation. Equipment is of a type found in the modern American studio, and includes control apparatus and condenser-type microphones.

As a result of the new station, effort is being made to develop native talent, and a major portion of the programmes is being presented by local artists. Effort also is being made to secure commercially sponsored programmes, and already a number of the features broadcast by the station are presented by Mexican merchants.

How to tune in to Overseas Stations!

With a view to assisting both beginners and the "hard-boiled" type of DX enthusiasts, a chart of broadcast stations has been prepared on unique lines.

In any part of the World

THE "RADIO RECORD" DX LOG CHART

(Dimensions 17 by 11)

The main idea is that stations in any part of the world are shown in order of sequence in which they will be found on the dials, and thus, from the known positions of a few stations, many others may be readily searched for and found without the necessity for hunting through numerous lists.

Compactness is an essential feature of the chart, and although over 220 stations are entered, there is no confusion.

Stations include all New Zealand and Australians, a large number of Americans heard, or likely to be heard, numerous Mexican, South American, Japanese, Canadian and a few of the super power stations so greatly sought after by the real enthusiasts.

RADIO RECORD, Box 1032, Wellington.

Please send me the "Radio Record" DX Log Chart. I enclose 5d. in stamps.

Name.....

Address.....

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Those who buy for the home, farm, office or factory have one thing in common. They usually buy the things that look best for the price. Whether their buying is influenced by newspaper advertisement or catalogue they purchase the goods pictured and described to the best advantage.

Your product can be successfully pictured if you use "Dominion" illustration blocks. Made by craftsmen who know how to produce the best results for every class of printing, they give unusual satisfaction. Let us help you with your illustration problems.

"The Dominion" Process Engraving Dept.

WELLINGTON

Day and Night Service



Those Unemployed.

I HAVE too much faith in the British race, writes "Pandora," to believe that the average man or woman likes the dole or enjoys being out of work for weeks and even months. There are always exceptions, those wretched exceptions which are regarded as proving every case. There are, and always have been, loafers and cadgers and the unemployable. But there are countless decent, industrious men and women who long for work and try their best to get work, who dislike charity in any form, and who view with distress young people growing up without the conviction that one must work to live, which was formerly a matter of course. Let us discriminate and not close the doors of our sympathy to the deserving poor.

The Perverse Sex.

WRITING in a London paper, Sir Sidney Low says: "Woman, having emancipated her mind, soul and conversation, so that she can do anything, be anything, and say anything she pleases, is now, it appears, delivering her person to the physical thrall from which it emerged in the present century. If she thinks she looks nicer in bowler hats, flounced skirts, and square-shouldered jackets, or if her dressmakers and milliners persuade her that she does, it is not for the male of the species to protest. But he may hope that she will abstain from certain adornments. A good many of us still shudder over the remembrances of those stilettoes which women once thrust through their locks to keep their out-size hats in place. Nor was a waltz as pleasant as it might have been when your partner was encased in a tightly-laced contraption which made her creak like a wickerwork basket when she moved." But will Eve submit once more to tyranny and discomfort? Corset and bustle are predicted, but nous verrons.

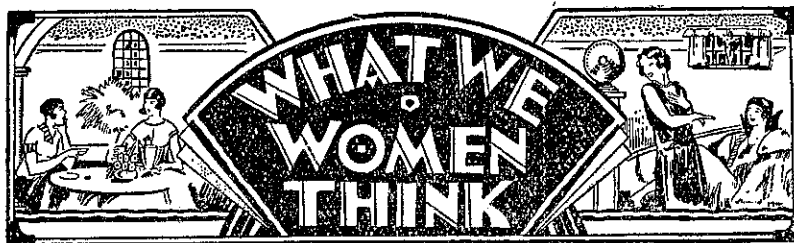
The Heart of the British Public.

"THE heart of the British public is sound—the British public likes to laugh," we are told. Certainly we like to laugh; as a nation we enjoy the best of all laughs—the laugh against ourselves—but that is only a half of our nature. The other half of the "sound heart" wants to be stirred to its depths—to pity—to feel—even intolerably to feel. "There's a crack somewhere—something that's unsound in the rattle."—Sybil Thorndike.

An Appreciation.

I LOOK forward with interest to the day when a national daily will be edited by a woman, and, I hope, have no political leaders at all," Lord Luke declared at a reception given in his home in Portman Square recently to mark the appointment of Miss Anne Hepple as the new editor of the "Woman's Magazine," published by the Religious Tract Society. "A generation ago," he continued, "the arrival of the woman journalist was making something of a sensation in Fleet Street, though—perhaps owing to an oversight—the fact was not recorded as such on the evening posters. The male journalist regarded her with a good deal of suspicion.

"But she came, and her influence has been profound. She has brought into the magazine pages of our newspapers and the lively columns of our magazines an attention to detail and make-up and technique which was badly needed."



An Ecgonomical Era.

COTTON materials are considered ultra chic by the Parisienne this summer. Nearly every woman you see is wearing a trim little linen suit with a broderie anglaise blouse or a frock and jacket to match. Coloured jackets have taken the world by storm and they are being worn everywhere. Brilliant

AKIN

I died for beauty, but was scarce
Adjusted in the tomb,
When one who died for truth
was laid
In an adjoining room.

He questioned softly why I failed.
"For beauty," I replied.
"And I for truth—the two are
one;
We brethren are," he said.
—Emily Dickinson.

hant colours are much in evidence, emerald green, lipstick red, royal blue, apricot yellow, and white being the most favoured.

It is a fashion that has even been adopted for dining out of doors. At the Bagdad, the smartest rendezvous in

Paris, the right jackets look charming, making bright spots of colour under the trees. Black dresses seem to be the most popular choice to wear with these gay little coats, and there can be no doubt that they show them up to the best advantage.

Gingham, shantung, linen and pique are the favourite daytime fabrics for jackets, and the tailored line is emphasised in all of them. Even the simplest single-breasted style is accurately man-tailored to the last detail.

Star-gazers.

THOUGH to-day women are found working at every branch of science, it has been mainly in the realm of astronomy they have hitherto done their most notable work. Following in the footsteps of Mary Somerville and Caroline Herschel, during the nineteenth century a succession of women made their mark either as observers or as writers on astronomy. Maria Mitchell (1818-1889) was long the professor of astronomy and director of the observatory at Vassar College in the United States. She was provided by the women of America with a large equatorial, and the observatory at Nantucket, now under the direction of Miss Margaret Harwood, was erected in her honour. Two other American

women, Anna Winlock, who died in 1904, and Mrs. Williamina Fleming (1857-1911), were connected with Harvard University. Especially important were the writings of Miss Agnes Mary Clerke, who was born in County Cork in 1842 and died in London in 1907. Her sound judgment and her wide acquaintance with astronomical literature made her "History of Astronomy during the 19th Century" a most valuable book of reference. This work first appeared in 1885, and was followed by her "System of the Stars," 1890, and "Problems in Astrophysics," 1908.

A Moot Point.

IT is wise to be very careful in the choice of one's lipstick when wearing red. Nothing can be worse than a purple-red lipstick with a yellow-red frock. It gives the lips an ugly purplish tinge against the warm tone of the frock that is very bad indeed. Be sure always of the base of your red, and match your lipstick to it.

Pink powder, it goes without saying, should never be worn with red, though it can be worn with certain shades of blue, but a subtle shade of Rachel, which is nearly a natural colour, with a wash of very pale lavender powder over that, makes an effective combination. Eyes should not be too made-up with red, but a delicate application of eye shadow, with just a touch of eye cosmetic on the lashes, warms and deepens the eyes when wearing any shade of red.

Many women believe that they can wear brown, but it really is a trying colour because it makes a pale woman look paler and an olive skin look sallow. A tangerine rouge, a flame lipstick, a warm ochre powder on a foundation of a natural colour, and a rich brown shadowing the eyes and lengthening the lashes, help any woman.

Infinite Variety.

WAISTCOATS are very fashionable this season, and help to provide the essential colour contrast in favour just now. One well-tailored dark suit may be given many different phases by making a selection of these waistcoats in various colours, and giving them little hats to match. These fabric hats are so easy to make if you get a good pattern—and help to bring variety into the small wardrobe.

In Favour of Luncheon.

A NOTED entertainer once said that the only use of lunch was as a meeting place for the bores impossible to ask to dinner. She was brilliantly contradicted by a hostess who long ago decided to specialise in lunches and made such a success of them everyone wished to be invited. The many-sided Mrs. Alec Tweedie has in an amusing record called, I think, "My Tablecloth," proved conclusively that, given good talk and good cookery, lunch can be delightful. Mrs. Tweedie, whom I first met at a Woman Writer's dinner in an amazing parure of pink topaz, the gift of President Diaz during her adventures in Mexico, has the rare gift of being able to draw people out. This, combined with the fine art of selection of guests few and fit, makes her lunches attractive. All entertainments are apt to be too long, which gives lunch a preference to dinner. If we are bored we can go within an hour. If we are happy there may be dalliance over coffee and cigarettes.—"Englishwoman."

Our Cookery Corner

Jelly Pie.

Method: Cut 1lb. lean steak and three rashers of bacon into small pieces and fry (with a very finely-chopped onion) for five minutes. Arrange in a fireproof dish, sprinkle with a little grated lemon-rind and chopped parsley, and garnish with slices of hard-boiled egg and season to taste. Pour over one breakfastcupful of white stock, and stew gently for three hours.

When cold remove all grease and pour over 1oz. gelatine (dissolved in hot water), 1 teaspoonful of vinegar, 1 dessert-spoonful of meat extract, and leave to set. Serve cold with salad.

Eggs and Asparagus Espanol.

Method: Saute two tablespoonfuls chopped onion and two tablespoonfuls chopped green pepper in two tablespoonfuls butter until tender. Add one medium-sized can tomatoes, one medium-sized can peas, and let cook until rather thick. Season to taste with salt and pepper, pour into four shallow baking dishes, and break one egg on top of each. Arrange the contents of a large can of asparagus tips on top, and place in a moderate oven until the eggs are set.

Citron Pudding.

Ingredients: Take 3oz. citron or lemon peel, cut very thin; 8 yolks of eggs, 2 whites of eggs, 1lb. castor sugar, 1lb. butter, 1 pint cream. Soak the citron or lemon sliced peel in a little water overnight.

Method: Melt butter, stir in sugar and yolks of eggs, then whites, slowly and carefully. Then stir in cream, then peel. Line a dish with puff paste and pour in mixture and bake in slow oven for 1½ hour. Eat cold.

Butterscotch Pie.

Ingredients: 1½ tablespoonfuls of butter, 1½ cupfuls of brown sugar, 8 egg-yolks, 1 teaspoonful of salt, 2 tablespoonfuls of flour, 1½ cupfuls of milk, 1½ teaspoonfuls of vanilla.

Method: Cream butter with sugar, add egg-yolks and salt, and all but a ½ cupful of milk. Mix flour to smooth paste with remaining milk, and add to the other mixture.

Cook in a double boiler, stirring till thick for about five minutes. Cover and continue cooking about 20 minutes, stirring at times. Set aside to cool, and then add the vanilla and pour into pastry shells. Just allow a few minutes in the oven. When cool cover with meringue or whipped cream.

... With ... BOOK and VERSE

By "John O'Dreams"

Jottings

Prize Poem Competition

FOLLOWING on unprecedented success of his "Story of San Michele," Dr. Alex Munthe has reprinted a collection of short essays and sketches entitled "Memories and Vagaries." In the new preface he has added to the original volume Dr. Munthe says that these commentaries were written in the dim past when the writer had small experience, but he hopes there exists a minority of book-lovers who still find delight in spontaneous writing, and perchance may approve of these impulsive annotations of headlong immaturity.

There is no need for apology, for here we read much that is delightful and much that is poignant. Admirers of this author do not need to be reminded of his fascinating literary methods, very apparent in these sketches and stories of his youth. We meet again some old friends: sweet Sister Philomené, guardian angel of Salle St. Claire; the sad Salvatores; and the selfless street scavenger Zusco, who in his poverty and rags is one of the spiritual elect. And Gaetano, street musician, his poor little monkey, and precious barrel-organ: "It is well known that this instrument, like the violin, gets a fuller and more sympathetic tone the older it is. This aged artist had an excellent one, not of the modern noisy kind, but a melancholy and old-fashioned type which knew how to lend a dreamy mystery to the gayest allegretto, and in whose proudest tempo di Marcia there sounded an undertone of resignation." Then there is lovely Raffaella, an artist's model to her eternal woe, who is described as "butterfly-winged Psyche, whose lips Eros has not yet kissed."

A lover of all dumb creatures, of whom he writes with an infinite sympathy, Dr. Munthe voices the feeling of raging protest that surges in many hearts on looking at forest creatures held in hopeless captivity for the delectation and amusement of thoughtless men who prod them with umbrellas and feed them with buns. A book to add to your library list.

IN the amusing satire, "Yashima" makes hay of provincial society. A youthful Arabian beauty, affianced to a princeling of her own race, turns yearning glances toward the Western world and its customs. England is her Mecca, and thither she wends on a voyage of discovery. Her subsequent social adventures and misadventures in a provincial town and among the Bright Youth of London gives the author an opportunity for much amusing satire on English ways and works. This is a book of most entertaining quality, and will delight many readers.

CONDITIONS:—Any reader of the "Radio Record" is eligible to send entries for the fortnightly Poem Competition as frequently as desired, but the prize of half a guinea will not be awarded to the same contributor twice in succession. The poems sent may be of any length not exceeding 25 lines, and must be the original work of the competitor. Name and address must accompany nom de plume, and if return of MSS. is requested, stamps must be enclosed. All care taken but no responsibility. The decision of the judge is final.

THE prize of half a guinea in the current competition is awarded to "Karakia" for able treatment of unusual subject, considerable success being achieved in difficult verse form and topic far removed from the superficial and pretty-pretty. Selected for special commendation is a delightful effort by "Ginger," entitled "September Rain," for which we regret lack of room precludes publication.

"Mountain Courage": Inadequate treatment of a great subject.

"Alpha's" work invariably shows consistency of merit and acquaintance with literary technique, the pathos of a pohutukawa tree in an alien atmosphere being presented with imaginative beauty.

"Thur" sends a small, lovely impression of the swiftness and glamour of the morning of life.

"Regret": A love poem, quite free from mawkishness, which evolves wistful underlying note of sadness with sure touch on the heartstrings.

Vladimir: Your plodding Pegasus, we fear, will leave you in the lurch.

"Lucibel Lee" sends two slight poems anent golden trees and birds of sapphire hue, "Kowhai Tree" possessing some measure of attractiveness.

"Chris": Thanks for welcome note of appreciation. Several favourable comments have been made on "Maid Morning."

"Firefly" is sweetly sad and sadly sweet for far too many uninspired verses.

"Xanadu": Phrasology picturesque, but sonnet crashes at its close.

"Vulcan": Logic bad, rhyming worse.

"Romeo": Certainly not.

... Sawdust ...

An odour dear to me is that of brown
Wood shavings purling in a twisted stream
From out the smoothing plane, like waves, that down
A yellow beach topple and fall. The cream
Of sawdust, too, is good. And reeking glue
In iron pots. And lumps of timber smoothed
After the plane. The plane itself, and blue
Keen-bladed chisels. And a saw, sharp-toothed,
That whines long, like the wind that cries
When all the ground is cold and white with hail.
And rich red varnish. Oil that glossy lies
All round the scarred wood bench, and leaves a trail
To dry. And paint that tangs of linseed oil;
And the strong effort of a man at toil.

—"Karakia."

THE American Civil War of the 'sixties, as seen through Southern eyes, and its effects upon a typical family of the time, are the keynotes of "The Forge," by Mr. T. S. Stripling, the author of several notable novels. The Valdens lived in Alabama—a large and casual family. Old Jimmie is an ex-blacksmith with an almost biblical number of sons and daughters. He is hot-tempered, but no tyrant. Fairly prosperous, it seemed likely the next generation would carry the family to greater social height, and a son or daughter marry an aristocrat. But Fort Sumter fell and the Valden boys enlist, and a Northern army came South to burn the Valden property, and incredibly the niggers found themselves freed. It is a picturesque panorama. The women are delightful—Cassandra, who plays schoolmistress to

the family, Marcia, who cannot make up her mind, Gracie the quadroon, and old Mrs. Valden herself. A book to be recommended.

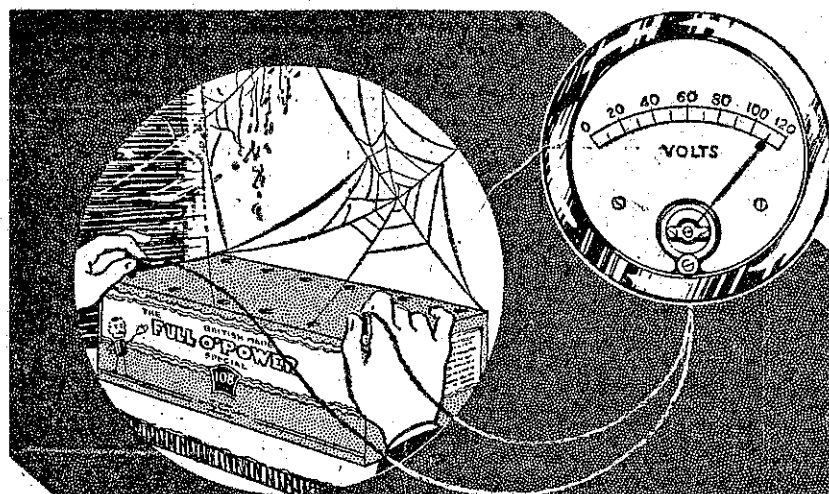
"RIVERS OF DAMASCUS" contains eleven short stories by the late

Donn Byrne. They cover a wide range of subject. American "graft" finds a place, so does Irish whimsicality. The author finds drama on a golf links and romance on the high seas. He has a pathetic study of a negro jockey unwise enough to leave America for the Riviera, and a queer study of an Irish Republican "general" with an almost invisible division. There is a charming story of an Irish-American detective who accepts bribes in order to keep his beloved Colleen Rae in luxury, and a very terrible story of a valet who shoots his master. The friends of this brilliant Irish author, so lamentably cut off in his prime, will delight in this collection.

MR. MONTAGU SLATER, the author of "The Second City," has an un-

common gift for effective satire. The story he tells hinges on police court proceedings against a boy who is employed as a bookmaker's messenger. The case would have been disposed of summarily and without fuss had not a local member of Parliament interfered and, with the best of intentions, stirred up a scandal which involved many influential people. The motives and action of the story are logically constructed, and "The Second City" is an acceptable thriller.

IS there anyone so important and interesting that the public desires his autobiography in four large volumes? Mr. Theodore Dreiser, with the ruthless thoroughness of his Teutonic ancestry, evidently thinks there is, but his readers are conscious of the overwhelming egotism at the back of his colossal effort. "Dawn," in which the American novelist describes his boyhood and youth, is to be followed by further instalments. In its amplitude of detail, this first part of the autobiography will prove more than enough for most people. Several small towns of the Middle West, and eventually Chicago, witnessed Mr. Dreiser's approach to manhood, and he narrates various moral lapses with painstaking prolixity, there being no limits to his passion for self-revelation. He tells us how he sounded depths of depravity in his 'teens, offering no resistance to temptation, and seemingly unreprieved by conscience. This is a pathological study, and will not interest, one imagines, the average healthy-minded citizen.



MR FULL O'POWER

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in the "N.Z. Radio Record."

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OF ITS BEST EVEN AFTER MANY
MONTHS OF DISUSE —

NO FEAR OF NOT GETTING THE
LAST OUNCE OUT OF A
FULL O'POWER



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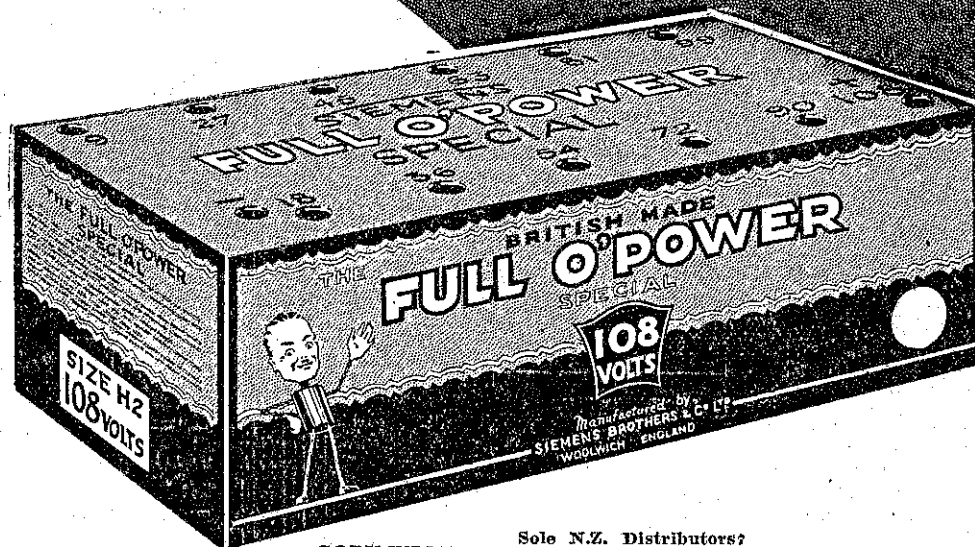
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