

THE RADIO RECORD

Published Weekly
REGISTERED G.P.O., WELLINGTON, N.Z., AS A NEWSPAPER.

Vol II., No. 43.

WELLINGTON, FRIDAY, MAY 10, 1929.

Official Opening of 2YB New Plymouth

Important Announcement Concerning Relay Stations



THE opening of 2YB on the evening of Saturday, April 27, was an outstanding success, and has made radio a subject of prime importance throughout the whole Taranaki district. The official function in the studio situated on the premises of Collier's Limited, New Plymouth, was full of sparkling enthusiasm. The arrangements made passed off very satisfactorily and were a distinct credit to the organisation undertaken by the North Taranaki Radio Society. Pleasure was added to the occasion by the receipt of numerous telephone calls from all parts of the district as the programme advanced reporting very satisfactory reception over a wide area.

The advent of the station has met with a welcome reception from both Press and public, and it is plain that it will fill a felt need in the territory.

THE official opening was marked by a number of important, though brief, introductory speeches. The Mayor of New Plymouth, Mr. H. V. S. Griffiths, officially opened the Studio and commented on the significance of the occasion, occurring as it did in the same week in which the district aeroplane hangar was completed.

Mr. Griffiths conveyed the thanks of the community to Mr. Payne, Station Director, and President of the North Taranaki Radio Society, and those associated with him, for their vision, energy, and enthusiasm in bringing the station into existence. He also extended a welcome to Mr. John Ball, and asked him to thank the Radio Broadcasting Company for the generous way in which it had responded to the request of the Taranaki Society for the equipment of the station. He hoped that the station would fulfil the anticipations of the promoters.

supply the felt need of listeners, and shed happiness to all hearers.

MR. S. G. Smith, M.P., represented the Postmaster-General at the ceremony and conveyed a message of goodwill from the Postmaster-General. "The Government of New Zealand recognises the important place that wireless broadcasting occupies in the life of the community," telegraphed the Hon. J. Donald, "not only for pleasure, but also as a means of supplying to people in back-blocks weather reports, market reports and other information regarding topics of the day. Radio and the telephone have removed much of the isolation of rural life. It is the desire of the Government to afford this modern adjunct of civilisation every facility to achieve the widest popularity. When the Radio Broadcasting Company commenced operations in 1925 there were approximately 3000 receiving licenses. At March 31, 1927, the number had increased to 18,162. In 1928, it was 39,315, and this year it is 44,810. Compared with other countries New Zealand suffers considerable disadvantages from a broadcasting point of view, as our population is neither large nor concentrated, and many stations are required to give good reception everywhere. I hope that licenses will continue to increase and enable improved facilities to be given to many places which at present do not enjoy first-class reception. At present our revenue is less than £67,000, as compared with £377,000 for Australia and £1,342,000 for the United Kingdom. In the circumstances, the

broadcasting company's service must be regarded as remarkably satisfactory. I trust that the new station 2YB will give the result that is expected in better radio service to the people of Taranaki, and I again congratulate them on having brought their efforts to a successful conclusion."

Relay Stations.

MR. John Ball, Editor Announcer of the Radio Broadcasting Company, in the course of his remarks made an important pronouncement on behalf of the Broadcasting Company concerning the possible future of a relay system throughout the Dominion.

"This is indeed an auspicious occasion," said Mr. Ball, "and, speaking as the representative of the Radio Broadcasting Company of New Zealand, Ltd., I feel it a privilege to be afforded this, and especially to the band of radio amateurs whose enthusiastic enterprise has made possible the establishment of a broadcasting station in New Plymouth, sincere and hearty greetings and good wishes. Such enthusiasm is indeed a great community asset. I am commissioned by Mr. A. R. Harris, the Company's General Manager, to express on his behalf, and on behalf of his co-directors, his and their hearty congratulations to the officers and members of the North Taranaki Radio Society on the success that has attended their efforts, and the company's best wishes for the successful operation of station 2YB. They desire me to say that the society's solicitation of the company's co-operation is deeply appreciated by them, realising as they do that the development of a truly national and thoroughly efficient broadcast service is only possible by a strict adherence to the principles of unified control."

—Continued on page 2.

2YB Opened

(Continued from cover.)

Mr. Harris had just telegraphed as follows: "Much regret being unable to be present to-night, but am much interested in listening-in at Sumner to official opening. Mayor's speech is coming through splendidly. Portions of programme will be re-broadcast by 2YA and 3YA. Auspicious opening with excellent programme augurs well for future of 2YB. Please extend to Mayor, Mr. Payne, and Radio Society heartiest congratulations from directors of Broadcasting Company."

"The company," continued Mr. Ball, "readily responded to the society's overtures for two reasons: First, because as part of its general scheme for the development of a comprehensive national service the company had had in view the erection at New Plymouth and other suitable places of relay stations for the purpose of relaying and re-broadcasting the programmes from the existing YA stations; and, secondly, because the company recognised that the fact that reception in this district from its super-power station at Wellington was more or less adversely affected, apparently by the screening effect of Mount Egmont, afforded reasonable justification for the operation of a local station until such time as it became possible to erect and operate a modern relay station. For these reasons, and because of the enthusiasm manifested by the society, the company had willingly and gladly extended to Taranaki listeners, through and in co-operation with their society, a concession well beyond the province of the agreement under which it operated, and consequently involving the procuring of a special license. He need scarcely add that from the company's point of view the scheme under which 2YB had been brought into existence was not ambitious enough for such a rising town as New Plymouth and the prosperous district which it served. The company would impress upon listeners

that 2YB was not intended to give them a full broadcast service, but rather to fill in part the gap occasioned by exceptional conditions until circumstances should have made practicable the substitution of something much better and more worthy of Taranaki as a whole.

HE was optimistic enough to believe that this greatly desired development was already in the lap of the very near future. From the inception of the existing service the General Manager of the Broadcasting Company had visioned a perfected national broadcast system, in which there should be linked with the four main stations a chain of efficient relay stations located in the chief provincial centres, and extending from one end of the Dominion to the other, every one capable of effectively re-broadcasting the programmes sent out from the four big stations. "Fellow New Zealanders, we are indeed a fortunate people, for we have the opportunity of endowing our beautiful country with a broadcast service which in conformity with our physical and material circumstances shall be a veritable model of completeness and efficiency.

It is my privilege to make public the fact that the General Manager has already submitted for the consideration of the Government the carefully formulated outline of a scheme for such a developmental extension of the service.

I invite you to try for a moment or two to visualise such a scheme in operation. Picture to yourselves a unified broadcasting service having primary stations in the main centres and relay stations—or broadcast outposts, if you will—in the larger provincial towns such as Hamilton, New Plymouth, Wanganui, Palmerston North, Gisborne, Napier and Hastings, Nelson, Greymouth, Timaru and Invercargill. Picture all these centres connected by land-line in such a way that any matter of national importance or interest occurring at any one of these points will be automatically

broadcast at any point where there is a station. In this way New Plymouth, for instance, will be brought constantly into touch with events happening in any other part of the Dominion, and similarly, every other part of the Dominion will be kept in touch with important happenings in New Plymouth, and this entirely regardless of atmospheric conditions. Such a system will bring to all listeners the joy of undistorted reception and to many, many thousands the boon of crystal reception. The company's ideal is to make it possible for the remotest listener within the confines of the Dominion to "tune in" under the best possible conditions and with the assurance of receiving satisfactorily that to which he or she desires to listen, whether it be entertainment, information or instruction. The experience of other countries proves beyond all question that there is only one policy under which this ideal is attainable in a country such as ours—the policy of unified private management under Government regulation.

WELL, ladies and gentlemen, this is not the time nor the occasion for a lengthy address. Broadcast talks must necessarily be brief, and I doubt if I should have been able to hold your attention for so long, were it not that you are waiting in pleasant and, I hope, not too impatient, expectancy for the good fare that is to follow. However, before closing I feel that I ought to take this opportunity of assuring you that the company's plan of development is by no means limited to the technical side of the service. Programme improvement commensurate with available resources is a fundamental plank in the company's policy; but beyond that there is a great field of national service of inestimable value to the community which the company is eagerly anxious to explore. Let me give you a brief glance into just one corner of that field, so that you may sense the tremendous potentiality of broadcasting as an aid to the development of primary production. As the result of carefully gleaned information the company is convinced that by the systematic broadcast of scientific instruction the productivity of the country can be enormously increased and the material wealth and prosperity of the community proportionately enhanced. At the request of the general manager, one of the most eminent scientific authorities in the Dominion, Dr. Chilton, is at the moment engaged in investigating the possibilities of such a service, and we are hopeful that he will be able to formulate a scheme which in operation will result in the wringing of additional millions from our soil.

Words of Advice.

"AND now, finally, just a few words to the officers and members of the North Taranaki Radio Society. You have got Station 2YB. What are you going to do with it? Make the most of it, no doubt. But how? As Shakespeare says, 'Ah, there's the rub,' for there is just the danger that in making the most of it in accordance with the inspiration of a too abundant enthusiasm you may strain the breaking-point its limited capabilities. Discreetly operated in conformity with the facilities at your command it will unquestionably prove a boon to your community, and these few words are uttered in the hope

that they may induce you to nurse that boon with the utmost care. My advice to you, if I may be permitted to offer it, is to take the long view, to always remember that those talented people upon whom you must rely to provide you with acceptable programmes are limited in number and that to work the willing horse to death is a suicidal policy. Better, I think you will agree, to give your listeners two good broadcasts a week than to run the dual risk of wearying them by too frequent and inevitable repetition, and of wearing out the enthusiasm of your willing helpers. So long as 2YB in its present form remains an active unit in our broadcast system, so long may it enjoy unbroken reign of popularity and prosperity. That, I assure you, is the sincere wish of the general manager, directors, and officers of the Broadcasting Company."

A Big Venture.

MR. B. PAYNE, president of the North Taranaki Radio Society, in heartily thanking the Radio Broadcasting Company for its co-operation, said that the society realised that it had undertaken a very big venture in 2YB, and knew that it must seek and obtain the full and whole-hearted support of the entire province. Thanks were due to those who had given financial assistance to the society, especially Colliers, Limited, for the free use of their splendid building. "Mr. Ball's pronouncement concerning the future policy marked," said Mr. Payne, "an important event in the history of radio broadcasting in New Zealand, and would undoubtedly be received with the greatest pleasure by the districts intimately concerned." He extended Taranaki's congratulations to those districts.

Mr. Payne was able to announce that they had already received congratulatory messages from Dargaville in the north and from Christchurch in the south. From that evening 2YB would be at home to all Taranaki. The North Taranaki Radio Society would like the province to feel that the station was their station, and trusted that in the very near future it would be a constant and very welcome guest "every fire-side in town and country."

A COMPREHENSIVE and appreciated musical programme was then given. Reception, as already indicated, proved satisfactory over a wide area, except in a fan-shaped area extending from Opunake on the west and the south of Mount Egmont to Stratford in the east. In the Hawera area reception was good, but on the faint side, the strength being not equal to that at which 2YB was received from Christchurch in its preliminary test. This is interesting confirmation of the disability under which Taranaki has been held to suffer by reason of the mass of Mount Egmont. It is plain, however, that the station will be of immense value to Taranaki radio reception and materially to the scope of radio in that district.

For Sale or Exchange.

See page 32 for column of casual advertisements.

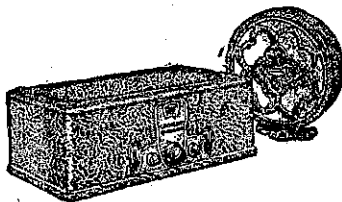
Have you secured your copy of

"N.Z. Radio Listener's Guide"

Dealers and Booksellers 2/6 and Free 2/9—P.O. Box 1032, Wellington.

Now Available.

The Undisputed Leader among Battery Receivers



CROSLEY BANDBOX

Price, Set complete with Valves, Batteries and Loud-speaker—

£31

Terms if desired: 100/- Deposit and 11/- per week. This offer is available only in the North Island.

The first appearance of the Crosley Bandbox was greeted with enthusiasm in all parts of the world, and to-day it has increased its popularity and stands the undisputed leader among Battery Receivers.

Completely shielded chassis. Accumulators for sharp tuning on distant stations, illuminated single dial control, and many other fine features that have made it the most modern Battery Receiver on the market.

Realise its qualities by hearing it yourself at your dealer's, or send coupon for full particulars.

MESSRS. ABEL, SMERTON, LTD.,
Wholesale and Retail Merchants,
27-29 Customs Street E., AUCKLAND.
Sirs,—Please send me particulars of the 6-Valve Crosley Set, and other Special Values you are offering in Sets and Accessories.

Name
Address
"R"



NO OVERLAPPING OF STATIONS !

If you own a Radio Set you know that when you try to pick up a distant programme, the local station "drowns" your Receiver with its overwhelming transmission. You get two programmes at once just like taking two photographs on one negative.

With the Cossor Melody Maker this annoyance is swept away. Its knife-edge selectivity will cut out local stations like magic. It will bring you superb radio music from Auckland, Dunedin and Wellington. Why be tied to your local station? Assemble the Cossor Melody Maker and pick your programme from where you will. It's as simple as Meccano, no drilling, sawing or soldering, no wireless knowledge needed. Any wireless dealer will supply you. Fill in the coupon now and get to know all about this amazing Receiver.

with the wonderful NEW

COSSOR Melody Maker

£10

price includes the Three Cossor Valves, the handsome Cabinet and even the simple tools—everything necessary to assemble this wonderful Receiver.

World's Lowest Priced Screened Grid Receiver of such Advanced Design.

Agents for Australia and New Zealand:—

LYALL, WILLIS & CO., LTD.,
Billiter House, London, England.

New Zealand Distributors:—

G. HOWES & CO.,
259 Cumberland Street, Dunedin.

North Island Distributors:

RADIO LTD., Commerce Building,
Arauc Avenue :: Auckland.

EVERY STATION CRISP AND CLEAR

TO MESSRS. G. HOWES & CO., Dunedin.
259 Cumberland Street, Dunedin.

Please send me free of charge one of your Constructor Envelopes which tells me how to build the new Cossor "Melody Maker."

Name

Address

Trade Effort to Help Radio



ON this page we publish the text of a circular issued by the Wellington branch of the N.Z. Electrical Federation. This circular, we understand, has been sent to prominent individual listeners, radio societies, and radio federations throughout the country. Copies have been forwarded to us by some of the recipients, as they considered the proposal so important as to warrant our being informed. The proposal certainly is an important one and worthy of discussion in its bearing upon the interests of listeners. In so far as it marks an effort on the part of the trade to secure the best possible organisation of radio in New Zealand, we welcome it and wish to assure the federation from the outset that the "Radio Record" is concerned to help every movement, from whatever source it springs, calculated to genuinely benefit radio.

The circular, however, if it means anything at all in its present form, will be taken to mean that in the view of the federation—(1) The programmes in themselves are unsatisfactory; (2) the transmissions of the YA stations are technically unsatisfactory; and (3) that complaints regarding these two points, when made to the Broadcasting Company by the federation, have been invariably shelved.

These are important and far-reaching statements, which we, as a radio newspaper specifically concerned with interests of our readers, may fitly investigate. The first two points may be discussed by ourselves on the basis of general knowledge. The third point is referable to the party principally concerned, viz., the Radio Broadcasting Company, whose statement is appended later in this article.

Quality of Programmes.

ARE the programmes of the YA stations unsatisfactory? Listeners themselves are the best judges of that. From the outset the columns of the "Radio Record" have been open to listeners for the expression of praise or blame on all aspects of the radio service. Readers will remember that in

grammes available to-day is, we feel, higher than ever it has been in the past. The best possible use would seem to be made of the talent available, supplemented by judicious incorporation of world masterpieces provided by gramophone records. Visiting artists, wherever possible, have been induced to appear before the micro-

"About thirty," was the prompt reply. We asked whether these had been received in writing or verbally. The answer was "Some of both." We then asked whether these complaints had been passed on in writing to the company, our object being to find whether the company had been remiss in attending to complaints placed before it by the federation. To this question we were refused exact answer, although it was indicated that some of the complaints had been passed on in writing and some by word of mouth to the director of the local station.

The real point, however, is this: Are the programmes being provided satisfactory to the general body of listeners? That is a question which can be answered only by the listeners themselves, and we specifically invite listeners to express their views on the question. Our inquiry is directed only to ascertaining the facts, the listeners may write us perfectly freely and frankly on the point.

YA Transmissions.

THE second point made by the circular has reference to the quality of YA transmissions. Are these rightly the subject of numerous complaints? This is a technical matter, upon which technical evidence should be submitted. During the passage of the transmitter for Station 2YB from Christchurch to New Plymouth, opportunity was taken of its stay in Wellington to broadcast simultaneously with 2YA. The purpose of this dual transmission was to enable Wellington listeners to test their apparatus on a transmission of lower power than 2YA. Results showed definitely that the trouble lay, not with the transmitter, but with the receiver. This does not mean that the receivers in general use in Wellington are incapable of receiving Wellington properly, but that too much power is frequently used in them for near-by reception of such a powerful station. Almost invariably better results were secured by valve users from 2YB than from 2YA, leading to the conclusion that to use one or two radio frequency valves within a close range of Wellington and then expect excellent reproduction, is unwise unless big power valves follow. In other words, the detector was generally overloaded.

PROOF of this is available from a lecture given by Mr. W. M. Dawson, the technical expert of Phillips' Lamps, Ltd. In a recent address to the Wellington Radio Society he remarked to the effect that if people would only look to their sets and provide adequate (or correct) power with apparatus capable of handling the volume, there would be few complaints regarding the transmission of 2YA. A little previously

THE NEW ZEALAND ELECTRICAL FEDERATION

Wellington.

OFFICIAL LISTENERS-IN.

Dear Sir,—

"FOR a considerable period the Radio Executive of this Federation has received numerous complaints with reference to the programmes broadcast and the transmission of YA stations.

"When such instances have been submitted to the Company, the complaint has invariably been shelved, due to a large extent to a denial of the circumstances based on evidence submitted by one of the Company's official listeners. To overcome the difficulty, the Federation has decided to appoint official listeners, who will report direct to this office.

"To enable these reports to be of a uniform character a special form is being prepared, and this is to be completed for one programme each week, preferably Tuesday or Thursday, whichever period is convenient. The executive directs me to ask whether you will undertake to act as the official listener for the Federation in your district, and I shall be glad to receive your decision in the matter as early as possible."

our early days the volume of letters received by us and published in our Mail Bag Corner was considerable. A great many of those letters eighteen months or so ago made complaint of the quality of programmes submitted and contained suggestions where improvement might be effected. The vast majority of those suggestions, where possible, have been adopted. Apart from that source, the company has on its own initiative consistently striven to better the programmes given from all stations. As a result of this continuous effort, the standard of pro-

phone, the latest being Miss Harthy, the eminent Welsh singer-composer, whose broadcasts have been appreciated from one end of New Zealand to the other. The result of the steady improvement in programme quality is evidenced in the marked decline of letters of complaint received by ourselves from listeners. Of recent months this decline has been most pronounced, so that listeners would seem to be tolerably satisfied with the quality of programmes available. At the last meeting of the Wellington Radio Society, the fact that its meetings were poorly attended was attributed to one thing only, viz., that listeners were getting what they wanted and did not need to make complaints regarding programmes. "Give them rotten programmes, and we shall soon have our meeting fully attended," was the remark of the chairman. Again, there is the testimony of Mr. J. H. Owen, ex-president of the Wellington Amateur Radio Society, who left New Zealand a critic and returned, after experience abroad, a convert to the high general average under our conditions, of the service provided. And, finally, what of the distinctly good response in the renewal of licenses? Do these figures indicate dissatisfaction?

WITH this knowledge available to us, we confess to experiencing surprise on reading the federation's circular that "numerous complaints had been received as to the programmes broadcast." Our curiosity excited, we rang the secretary of this body to ask the number of complaints received.

Autumn Excursion

runs by Rail

The cheap railway fares operating from 9th to 18th May represent a big saving on ordinary travel rates. Although instituted primarily for the benefit of school children and parents during the autumn vacation holidays, they are available to EVERYONE—from and to all stations.

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
THE MASTER VALVE

another authority made a similar remark when demonstrating with a receiver that was capable of handling the volume. At the meeting where these views were expressed those present all admitted that they were satisfied that the transmission from 2YA was as perfect as technical skill could make it, and that such dissatisfaction as obtained as attributable to individual sets. Listeners on this point must realise that with so powerful a station as 2YA—made powerful for the specific purpose of reaching distance—those who are at point-blank range must make provision accordingly by cutting down the amplification stages, particularly the radio frequency, of their receivers.

Shelved Complaint

AS specific information is not available to us directly from the Federation as to complaints having been passed in writing to the Broadcasting Company and there shelved by them, we referred this point to the general manager of the Radio Broadcasting Company. In reply, Mr. Harris says:—

"We find by reference to the files that the Radio Broadcasting Company for the last twelve months has received only three letters from the federation covering complaints dated September 1, 1928, November 10, 1928, and November 29, 1928, two of which were replied to the day following the receipt of letter, and the third within ten days, having been forwarded through the station director at Wellington and then referred back for further comment by this office. It is therefore incorrect to say that complaints have been invariably shelved or even occasionally shelved. In every case matters raised by the federation, either verbally or written, have been given the closest attention by the company.

"It appears superfluous for us to reiterate that it is the constant aim of the company to maintain its stations at the highest possible efficiency, and no trouble or expense has been spared to keep the closest observation on 2YA particularly. We have invested in this station some £30,000, and it is only human nature, in addition to our recognised responsibility to listeners, to see that the efficiency of the station is maintained at the highest. Members of the federation can rest assured that no suggestion forwarded is shelved, but each and every complaint or remark concerning a complaint is thoroughly investigated, with a view to immediate attention if necessary.

"There is, however, no need for listeners to remind us that relays are faulty, that some of the apparatus is out of order, that announcing has been cut short or a substitution made on our programme, or an artist is not up to standard or too near or too far away from the microphone, as all these matters are carefully checked and rechecked during operation and logged for explanation and immediate attention. In fact, if we were to publish the procedure which we go through in endeavouring to maintain the efficiency of our stations, and also the detailed instructions which each member of the staff must rigidly adhere to, we would probably be criticised for being too particular.

"The Radio Broadcasting Company has long recognised the value of close co-operation with listeners, and it will be remembered only a year ago itself instituted the system of appointing in each district throughout the country honorary official listeners. The purpose

of this organisation then built up was that these listeners, chosen for their general standing and knowledge of radio, and because the apparatus they possessed entitled them to express competent opinions upon reception, was to provide a medium of contact with the general body of listeners and enable the company to be promptly informed of any deficiencies in transmission, or receive any suggestions for the betterment of programmes. This organisation has proved very valuable. The listeners have co-operated thoroughly with the company in many tests of which the outside public have known nothing. The results of those tests have benefited listeners with steady improvements. These listeners have shown themselves to be well chosen and competent. They have been quite frank in their reports, and enabled the Radio Broadcasting Company to secure a valuable bird's-eye view of the general situation. Complaints have been received rarely from these official listeners, but in every case of direct complaint effort at rectification has been made and many suggestions put forward by listeners have been adopted. We cannot claim perfection, but we do claim an honest co-operative effort to achieve the best standard possible."

Position Summarised.

IN the foregoing matter we have given the evidence available to us on each of the three points mentioned by the Federation. If the Federation feels that the establishment by it of a duplicate organisation of unofficial listeners, as a check upon the company's official listeners, will be of value to the general cause of radio, no one has a right to say them nay. So far as the "Radio Record" is concerned, we will gladly publish any complaint made by the Federation or anyone else the betterment of which is likely to be a fit radio. We are at one with the Federation in desiring the fullest possible efficiency of the New Zealand radio service. We may be permitted, however, to question the wisdom of disturbing propaganda being launched at the present time, when it is to the interests of all listeners to secure a large volume of licenses, old and new. If such propaganda checks the expansion of radio it is in reality a hostile move against the best clients of the trade, the existing listeners. On the facts available to us, we think the view is sound that the programme vice has steadily improved until, while not yet perfect, good use is being made of the talent available in the Dominion. A spirit of enterprise is also being shown in expanding the service wherever possible. The hours of service from three stations have averaged double those called for in the company's agreement. 4YA has been lifted recently on to an expanded service. A record long-distance relay has just proved successful between 2YA and 1YA, opening up possibility of programme diversification for the benefit of crystal users in both centres.

In point of actual fact, it may be questioned whether at the present time when its revenue has fallen very considerably because of the inevitable drop caused by all licenses terminating at March 31, the company is not running a risk in expanding at the rate it is. Last year it spent the whole of its revenue, and more, in its endeavour to supply the maximum service, and in the circumstances listeners

will no doubt appreciate the extra fare now being offered in longer hours and the new dinner session.

We Offer Co-operation.

AS indicated earlier, we are quite prepared to extend every assistance to the Electrical Federation in wise effort to advance the real cause of radio in New Zealand. We would suggest, however, that this cause is most likely to be advanced by co-operation and reasonable consideration. Dealers may be very keen to have extended hours for purposes of demonstration, and may feel justified in collecting material for possible political action, in advocacy of "B" class stations to secure wider hours of daylight operation for demonstration purposes; but what the listener, who after all provides the main funds for the radio service, is primarily concerned in, is steadily-improved and expanding programme service. While the company would doubtless like to expand daylight operations, it must weigh their cost as against the investment of the money in direct service for listeners. In that field it is our view, entertained quite honestly, that the company has done, and is doing, tolerably well. If there is a general body of opinion to the contrary entertained by listeners, we would be only too willing to hear of it. Our columns are open to every honest criticism. We have

Trade Development

A New Illustrated Price List

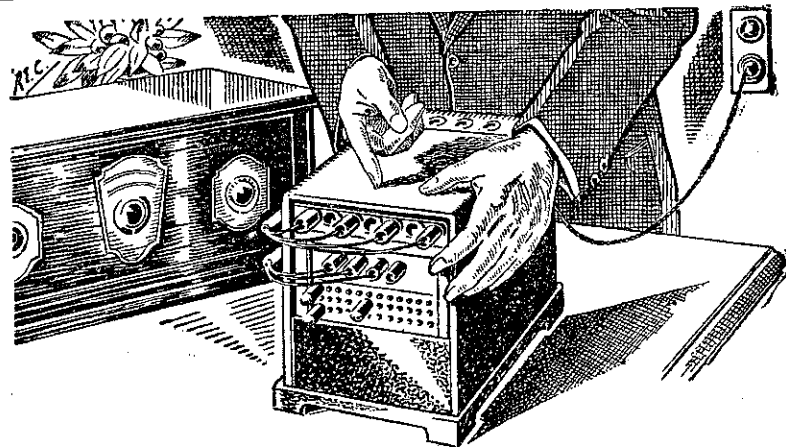
L. B. SCOTT, LIMITED, Christchurch, have issued a new, revised, and up-to-date catalogue. It is well illustrated, in fact, there is hardly a page without several very fine illustrations. Almost everything that the set builder or set owner would require has been listed. A novel code system has been developed to facilitate ordering by wire. Listeners who do not receive a copy of this price list could obtain one from its distributors: L. B. Scott, Ltd., Box 395, Christchurch.

no desire to eulogise or defend the company. All that is desired is fair play and honest treatment.

SPECIAL VALUES

Dry "A" Filter Condensers,	
2500 MFD. Capacity	19/-
201A Spec. R.F. Valves	5/6
"C" Batteries, 6v. 2/3, 9v. ..	3/6
45-volt "B" Batteries, 8lb. ..	16/-
45-volt Oversize, 13lb.	25/-

ROYDS HOWARD CO., Christchurch



"MY RADIO'S BEEN NEEDING THIS FOR A LONG TIME. WHAT ABOUT YOURS?"

"Yes, I was tired of buying Dry Batteries so now I've bought a Philips 'B' and 'C' Power Unit for the price of two sets of 'drys' and I know this job is going to last for ever. By the way, it's the simplest thing on earth to use, just plug into the various sockets till your set works best. If you want 200 'B' volts you can have them—if you want three grid bias taps each of any voltage between 2 and 40, you may have them in an instant. DON'T STARVE YOUR VALVES, give each of them just what plate and grid voltages they need."

You may find just what voltage each 'B' tap is giving your set by means of a simple formula. Ask your dealer for a technical folder dealing with Philips Power Units.

PHILIPS

POWER SOCKET APPARATUS

Sole of Philips Lamps (N.Z.) Ltd. (Radio Dept.), Hope Gibbons Building, Courtenay Place, Wellington

Branch Room: 611 Dilworth Building, Auckland.

The New Zealand Radio Record

P.O. BOX. 1032. WELLINGTON.

Published Weekly. Price 3d. Subscription Post Free in advance, 10s. per annum; booked 12s. 6d.

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

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

N.Z. RADIO PUBLISHING CO., LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, MAY 10, 1929.

EDITORIAL NOTES.

CONGRATULATIONS may fittingly be extended to the North Taranaki Radio Society upon the successful opening of their station, 2YB. In every way the function was a credit to the organisers. Mr. Ball attended on behalf of the Radio Broadcasting Company, to which, of course, the Society is indebted for provision of the plant and the permanent operator. Responsibility, however, will rest with the Society to make the best use of the equipment now provided. In this connection, Mr. Ball, speaking from the weight of experience gained by association with the larger services in the main centres, was able to give the Society some good advice as to conserving the talent available in the district and the ideals to be aimed at in supplying the service desired for the community. We have every confidence that the Society will rise to the responsibilities entrusted to it; and that through the service of 2YB the cause of radio will be advanced very materially in this territory. In his speech, Mr. Ball took occasion to make an important pronouncement on behalf of the Radio Broadcasting Company in relation to the development, as an ideal of the future, of a system of relay stations, in order to effectively cover the provincial areas of the Dominion. Those remarks, which are reported elsewhere in full, will be read with interest by listeners.

THE success that attended the relaying over a distance of 450 miles of the performances by the Port Nicholson Silver Band to Auckland and rebroadcasting there by 1YA was most marked. That success carried its own tribute to the quality of the equipment provided by the Post and Telegraph Department and the high standard of efficiency maintained by the service engineers. Following on that preliminary success, it is announced that further long-distance relays will be attempted as between Invercargill and Dunedin and from Dunedin to Christchurch, and also as between Hamilton and Auckland. These long-distance relays will be in connection with the opening of May Fair in Invercargill and the opening of the Winter Show in Hamilton. By the former effort, Stations 4YA and 3YA will both be on the air with the speech of the Prime Minister and accompanying matter, on the occasion of the opening of May Fair in Invercargill; while the radio circle of 1YA will take the opportunity of listening to the speeches on the occasion of the opening of the Waikato Winter Show. It is good that by these relays city interests should be brought into close touch with the progress of communities such as Southland and the Waikato. At the present time the telephonic equipment throughout the country is not in every case of the standard maintained between the larger centres; but as advancement is made, it is to be expected other relays of this character will be very frequently attempted. Another important relay in prospect is one from Hastings to Wellington, in the relaying of a special concert to be provided on the lines of that from Wanganui some time back.

GENERAL satisfaction will be felt with the very creditable percentage of renewals reported by the Department as having obtained up to the end of April. No greater expression of confidence in the general quality of the services being provided could have been given by listeners than this. The percentage of renewal is definitely higher than has ever before been recorded, and the situation warrants the gratification expressed by the General Manager of the Company, Mr. A. R. Harris. At the same time, Mr. Harris quite rightly points out that, good as the figures are, further advancement requires to be made to permit of the additional improvements desired to be made by the Company. Service follows directly upon finance. Finance is the mainspring. With adequate finance much can be done; without it the whole service is crippled. It rests with listeners who are deriving satisfaction to spread to their friends knowledge of the quality of service available to them, and so induce them to participate and contribute to further expansion. Dealers are naturally desirous of expanding their sales, and will appreciate that those sales are best made under an atmosphere of optimism and appreciation rather than in the midst of pessimism and condemnation.

Good Response in License Renewals Convincing Testimony of Listeners' Support

ADVICE is available from the Post and Telegraph Department that the grand total of radio licenses renewed to April 30, 1929, is 36,664, consisting of 35,880 receiving licenses, 652 dealers' licenses, and 132 amateur transmitting licenses.

This constitutes a very satisfactory response indeed from the listening public, and represents a very much higher percentage of total renewals than ever before has been recorded. On the 31st of March, 44,810 receiving licenses were in force, many being short-term licenses representing accretions in the latter part of the year. That all of these, except some 9000, should have renewed in the first month is gratifying. For comparative purposes it is interesting to record that at the end of April last year the total licenses were 30,175; of which approximately 28,000 odd were from the listening public. On the same date in the preceding year the total was 15,000.

These figures carry their own testimony as to the substantial advance made in the popularity of radio and, as indicated, constitute a substantial testimony of appreciation of the service being rendered. At the same time, it is necessary to stress the point that further advance still is required to lift the radio service on to the standard which all desire to see it attain. With the technical equipment of the various stations now secured and operating at high efficiency, attention is being concentrated, as was indicated would be the case, upon programme improvement. A reflex of this is seen in the increasing development of relay services recently inaugurated.

It is interesting to note that dealers' licenses have fallen from 1509 to 652, this, of course, being due to the adjusted fees now payable.

"COMPARED with last year, the renewals have come in remarkably well," comments Mr. A. R. Harris, general manager of the Radio Broadcasting Company. "While there is some leeway to make up yet, the renewals have exceeded considerably the figures for April 30, 1928. The licenses then totalled 30,175. At that time we used every endeavour to increase the roll of listeners. Among the new attractions was the formation of 2YA Orchestra, but despite these efforts it took seven months from the end of March, when all licenses expired, until the renewals reached the old total existing on March 31. The response is an incentive to us to still further improve our service. The effect of this impulse has already been evident in several important relays which we have arranged to carry out. On a recent Sunday evening we relayed a concert from Wellington to Auckland. We are shortly carrying out three relays from Invercargill to Dunedin, and on one of the occasions we will relay from Invercargill to Christchurch. Later on this month we are relaying from Hamilton to Auckland. We are enabled to carry out these relays through the courtesy of the Post and Telegraph Department, for the New Zealand telephone system is as yet not fully equipped for the carrying out of broadcasting relays which cause the Post and Telegraph officers much additional trouble. We are looking forward to this year being a record one for broadcasting in New Zealand. It has certainly begun very well and the future is dependent on how promptly the balance of license holders renew and on how rapidly the number is added to by the addition of new listeners."

Community Singing

On June 5, the Auckland Community Singing Committee will commence a series of twelve "sings" in the Town Hall, between 12.30 and 1.30 p.m. These will be broadcast by 1YA.

DO YOU USE SYDAL?

Many people suffer all sorts of skin tortures rather than go to the trouble of using a simple remedy. Sydal heals by making the skin clean—it is gently antiseptic, non-poisonous, and so mild that it can be used on the most tender skin. Why not use it? 2/- everywhere.

Wellington Symphony Orchestra

THE relay of the Wellington Symphony Orchestra's splendid programme of Tschalkowsky items was an outstanding success, and afforded substantial pleasure to a very large radio audience. Congratulations have been received from listeners over a wide area, and the indication is that the appeal by Mr. R. A. Wright, president of the orchestra, made at an opportune stage of the evening, for the co-operative help and financial support of country listeners, will not pass unheeded. The attendance of the public was very satisfactory, and it is sincerely to be hoped that the orchestra is now launched upon a career of outstanding value and interest to the music-loving community.

Not all listeners, however, were pleased with the performance. One at least was so dissatisfied that he made a special point the next day of calling on the director of 2YA. He wanted popular music, and nothing but popular music. His appetite for it was insatiable, and he for one bitterly complained that he had derived no pleasure from the performance given by the orchestra! As the actual attendance at the Town Hall to hear the performance is estimated to have been 2500 people, it may be admitted that there are others who do not share this gentleman's taste!

The Static Problem Elimination Claimed

IF the claims made by an Invercargill inventor are correct—and we sincerely hope they are—the static problem is solved. This will open up a new era in radio. A Press Association message from Invercargill states: "A revolutionary method of eliminating static, atmospherics, and blurring with opposition sets has been invented by a local man who has been engaged for the past three years in perfecting it. The inventor has used the apparatus under all tests, and is absolutely satisfied with the results it produces. He claims that all local electrical disturbances such as are caused by trams, power plants, and neighbours' sets have been cut out."

Municipal Elections

EFFORT was made at all stations to supply listeners on May 1 with the latest election news. All stations kept on the air to a late hour.

Naturally, the scattered nature of the polls, and in many cases the complex character of the issues submitted to electors, occasioned delay in obtaining finality in many of the issues. This meant that it was a late hour before information began to flow freely. All the actual information given during the evening could have been compressed into some two hours, but unfortunately for the reasons indicated, more protracted delivery took place. Nevertheless, an interesting evening resulted, intervals being filled by the broadcasting of gramophone records. The enterprise of the different stations was generally appreciated.

Long Distance Relays Proposed

Broadcasts from Invercargill and Hamilton

Following on the success of the Wellington-Auckland relay of a band concert, long relays are "in the air."

This week the "Radio Record" announces a relay of 3YA by 4YA. On Saturday, May 11, Dunedin will hear the entertainment to be given by the Revellers' Concert Party.

On the following Wednesday afternoon 4YA will broadcast, on relay, the opening ceremony in connection with the Invercargill May Fair. Sir Joseph Ward will be the principal speaker. Further relays will follow on Thursday and Saturday evenings.

On Tuesday, May 28, another important relay will take place, this time from Hamilton to Auckland. The official opening of the Exhibition which is to be held there will be the subject of the broadcast. Full details will be published later.

In connection with the Invercargill relays the programme on Thursday evening will consist of a burlesque of Parliament. It should be extremely humorous and gives ample opportunity for repartee between those taking part. A great crowd of spectators is assured.

During the evening the Scottish Pipe Band will play a march entitled "Sir Joseph Ward's Welcome to Invercargill."

On Saturday evening the programme will be in the nature of a Competition Evening, when all kinds of vocal and instrumental items will be presented. Included in the programme will be a selection by the Southland Caledonian Pipe Band.

The Saturday evening programme will be broadcast by 3YA as well as by 4YA. This relay from Invercargill to Christchurch will involve the use of 342 miles of telephone wire—128 from Invercargill to Dunedin, and 224 from Dunedin to Christchurch.

The Auckland to Hamilton relay will be over a distance of 85 miles.

Auckland Municipal Band

Bearing of Recent Election Results

AS a result of the municipal election in Auckland, eight new faces will appear round the council table, at which eighteen members sit. In those circumstances, it is possible that the question of the broadcasting of the Auckland Municipal Band may be reopened. The question was a moderately live one in connection with the election, a strong body of public opinion being at the back of the desire that the council should reconsider the matter.

The IYA Musical and Dramatic Committee engaged in correspondence with the council prior to the election. In writing to the council, the committee inquired what reason, or reasons, if any, prevented a contract being entered into for broadcasting the Municipal Band performances only, since relays of organ recitals had proved unpopular with listeners, and the city organist himself had freely expressed opposition to the broadcast of organ recitals on artistic and musical grounds. In those circumstances, it was felt that the council was adopting a peculiar attitude in insisting that the Broadcasting Company should not be allowed to broadcast the band only, but should also inflict upon listeners the unwanted series of organ recitals.

In replying to the representations of the IYA Dramatic Committee, the town clerk advised that the only reason preventing a contract being entered into was the fact that the Broadcasting Company was not prepared to pay the sum of £500 per annum demanded by the council for the right to broadcast the band and the organ.

A LETTER was also sent by the Musical Committee to the manager of the Broadcasting Company stating it to be the desire of Auckland citizens that arrangements should be made for the Municipal Band to be broadcast if possible.

In reply to these representations, the general manager of the Broadcasting Company recapitulated the facts covering the situation. These have been given in our columns before, but may be given again on the point that the council's offer included some 35 performances which were quite unsuitable for broadcasting and which the company could not use to the satisfaction of listeners. The company's offer represented seven guineas per broadcast, including 20 free Sunday evening concerts. Figured on the basis of the concerts for which charge was made, the company's offer represented approximately fifteen guineas per concert. "It need only be added," said the general manager, "that the council declined to consider the question from the community service point of view; disregarded the great publicity value of broadcasting to the city; failed to realize that broadcasting would help materially to justify the maintenance of the band at the expense of the ratepayers, and by attempting to secure an excessive fee, deprived the ratepayers of the substance of a reasonable contribution towards the cost of the band. It was to be noted that the City Council had not suggested that the sum offered by the company for the band was inadequate, but it insisted that the company should pay a larger

sum to include matter which was not wanted."

The matter now awaits possible reconsideration by the new council. Supplementing the comment already made, the council may be asked to say definitely whether the Municipal Band is or is not available for hire. If it is available for hire, then it is an extraordinary attitude to refuse to accept hire unless the hirer purchases something that is not wanted, namely, the organ recitals. If the band is not available for hire, then the ratepayers who foot the bill may fairly ask that the council make available to them in adequate fashion the services of the band for which they pay.

Radio in Guatemala

WHAT to do with our "howlers"!

Make the punishment fit the crime, and sent them to Guatemala which, according to report, must be the worst place on earth for a listener. It is stated that Guatemala is very mountainous, and has a poor climate for radio. From April to August reception is impossible; in September and October it is weak; between November and February it is only moderate; and in February and March it is weak. Only long-range reception is possible. "Aerial" in "Popular Wireless."



Which
is the
Chief?
Which
is
YOUR

Willing Workers Work Wonders

Ambitious Men can become what they will
Thousands of men make good annually
through the I.C.S. — SO CAN YOU

International Correspondence Schools

(NEW ZEALAND) LIMITED

1831 Wakefield St., WELLINGTON.

Sirs,—Please send me a 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).

- | | |
|-----------------------|---------------------------|
| —Architect, | —General Bookkeeper, |
| —Mech. Draughtsman, | —Station Bookkeeper, |
| —Concrete Contractor, | —Sergeant (any branch), |
| —Building Contractor, | —Sales Letter Writer, |
| —Carpenter, | —Advertiser (any branch), |
| —Plan Drawer, | —Artist (any branch), |
| —Shire Engineer, | —Journist (any branch), |
| —Shire Overseer, | —General Education, |
| —Motor Engineer, | —Language (F. phone), |
| —Motor Mechanic, | —Special Examinations, |
| —Electrical Engineer, | —Accountant (Inst. Ex), |
| —Elec. Mech. Exams., | —Matr. Solon, |
| —Mechanical Engineer, | —Intermediate, |
| —Mine Electrician, | —Herald House, |
| —Telephone Mech., | —Public Service, |
| —Aeroplane Engineer, | —Special Women's Dept., |
| —Aeroplane Rigger, | —Dressmaking, |
| —Textile Expert, | —Millinery, |
| —Plumber, | —Short-hand Typing, |
| —Mathematician, | —Bus. Correspondence, |

(There are over 4,200,000 I.C.S. Students, over 19,000 of these being in New Zealand)

ENQUIRIES COST NOTHING—POST NOW

Name.....

Age..... Occupation.....

Address.....

The Plight of Gisborne

Question of Permanent Programmes

To the Editor.

SIR,—Your leading article of issue Friday, April 19, contains the following paragraph: "When Sir Joseph Ward was recently in Gisborne a deputation from local radio enthusiasts waited upon him to urge, among other things, the payment of a subsidy to the local station. The arguments advanced in favour of this course were that crystal users in Gisborne and its immediate locality were unable to receive the transmissions of any of the YA stations. They secure their sole entertainment from the locally-controlled station. The revenue from their license fees went, however, to the Radio Broadcasting Company, from whose stations these particular listeners were unable to secure any benefit. It was accordingly asked that arrangements should be made that the revenue from local listeners should be diverted to the support of the local station." In addition to this quotation you candidly admit the general disabilities surrounding all grades of listeners in this district as far as the YA transmissions are concerned, and I for one appreciate your sympathy.

I am not aware of your source of information, but your reference to the disposition of revenue from Gisborne listeners is absolutely incorrect. As the spokesman on behalf of the deputation mentioned, allow me to state emphatically that at no time was any suggestion or hint made to Sir Joseph Ward as to

disposition of any revenue from listeners' license fees. The question of any form of subsidy to our local station, 2ZM, was never mooted. Please make that clear to your readers.

The deputation dealt entirely and solely with the question of adequate and efficient supply of programmes, and insisted upon some means being evolved whereby a stable and efficient service of programmes should be supplied to all licensees from whom the 30s. per annum fee was demanded. The fact that such a large percentage of Gisborne listeners were entirely dependent upon our local amateur transmitter for entertainment through inability to receive the YA stations was the foundation of our plaint, for we realised the unstable position of those who had secured licenses and would be left "in the air" should the local station choose to cease operating, as his option provided.

The deputation made it definitely clear to the Prime Minister that we were not concerned how or by what means the stability of service to those listeners was brought about. We considered that as the Radio Broadcasting Company are receiving nearly 90 per cent. of the total from license fees that it is an obligation on their part to make provision to supply an efficient and adequate service to all listeners from whose fee they (the company) are collecting such a large percentage.

If the R.B.C. are not prepared to supply the goods on demand why should they expect payment for that which they do not, will not, or cannot supply to all who are prepared to pay? Had a minimum range receiver been specified before a license was issued, the Broadcasting Company to receive a percentage only on those receivers' licenses which came on and above that minimum, that would have eased the position. It is certainly hard lines for a lad to pay out 30s. and have the risk of not even hearing a station for his outlay, while the Broadcasting Company receive 25s. of his money and never supply him with anything. You agree that our arguments are unassailable from a local point of view, and the same arguments apply to all districts similarly situated. We must insist that while the Government collects our 30s. and hands over 25s. of it to the Broadcasting Company, that the Government must find ways and means to compel an adequate and efficient service to all paying the fee. The question of how the demand is met does not concern us. A new station may be erected, the relay system may be used, or an arrangement with a local operator may be made. These matters are details of business the entire concern of the Broadcasting Company. If this cannot be done the only option left is to seek revision of the licensing system, to secure payments for goods delivered to those prepared to deliver according to the limits which such delivery can be assured. It may even end in New Zealand having to follow Australia's lead and bring all broadcasting under State control. A fair and square deal is all that is asked for, without frills.—Sam. J. Pearson, 14 Parau Street, Gisborne.

[We are glad to publish this letter. The newspaper report we perused certainly gave us the impression that the request that the Government should see that crystal users in Gisborne were given guaranteed receptions of programmes meant in plain language that the money from those crystal licenses should be diverted to the local station and local programmes. The argument now advanced means that any person anywhere in New Zealand who purchases a crystal or short-range receiving set and takes out a license should thereby expect to have a station made permanently available to him. If all were "compelled" to purchase crystal sets and become licensed listeners there would be weight in this argument that compensating service should be given. The purchase of a short-range receiving set is entirely voluntary, and it is surely stretching things to argue that because people in distant localities choose to buy crystal sets which are incapable of taking them to Mahomet, then Mahomet should be taken to them! So stated the proposition becomes to an extent ridiculous in our present state of development. We believe that the solution of the problem for scattered and distant listeners will be the provision of relay stations at strategic points, and if the keenness of our Gisborne friends hastens that day we will be very glad. In the meantime, however, it is hardly in good taste to allege a breach of faith on the part of either the Government or the Broadcasting Company, because distant listeners equip themselves with apparatus incapable of receiving the service that is provided from central stations necessarily located to serve the majority.—Ed.]



MR. ALBERT BLAND HOLT, Jr.

IT is a name that is well-known in the theatrical world—Bland Holt—and the name of Mr. Albert Bland Holt, junr., is also well known. At present on a visit to relatives in Christchurch after an absence of fifteen years from New Zealand, he will broadcast from 3YA on Friday, May 17. His items will be humorous and dramatic monologues. Throughout his stage career Mr. Holt has played many parts in vaudeville, drama and pantomime in all parts of the world.

Anzac Day

(Verses by Aunt Jean of 1YA.)

Good evening, Radio Family,
To-night my song will be
About our own brave heroes
Who died for you and me.

We all are truly grateful
To those who paid the debt,
And so we keep an Anzac Day,
Lest we should forget.

We honour all who nobly fell
And died for freedom true,
To make the world a finer place
Dear girls and boys, for you.

Well, listen in, listen in,
Yes, listen night and day,
You'll hear the best of everything
From Station 1YA.

Verification from "A.F.K"

MR. J. RAIT, Brooklyn, has received verification from A.F.K., Germany. The letter states that at the present time the only station in Germany transmitting on short wave is A.F.K. Transmissions are made from Nauhen on various wave-lengths, varying from 14.84 metres to 30.2 metres, and from Norddeich on 64.7 metres.

A NAUTICAL correspondent, after a trip across the Indian Ocean, writes to the New York papers that, in addition to other stations previously listed, one at Medan, on the island of Sumatra, is sending out a 37.50-meter programme on Mondays, Tuesdays, Thursdays and Fridays, between the hours of 8 and 10 p.m.

Longest
Life,
Honest
Rated
Capacity



Voltage	Capacity Amp.	Price
4	60	£3 10 0
6	60	4 10 0
6	80	5 5 0
6	100	6 5 0

FOR SALES AND SERVICE—

Auckland: BATTERY SUPPLIES LTD.

130 Broadway, Newmarket; 'Phone 45-540.
Also Auckland at 3 Lower Albert St. 'Phone 44-174.

Wellington: L. J. PURDIE & CO., LTD.

97 Dixon Street, Wellington. 'Phone 20-057.

Christchurch:

STORAGE BATTERIES FOR ALL PURPOSES
WATKINSON'S LTD.
STARTING-LIGHTING-IGNITION EQUIPMENT

261-265 TUAM ST.

Between Madras and Barbadoes Streets.

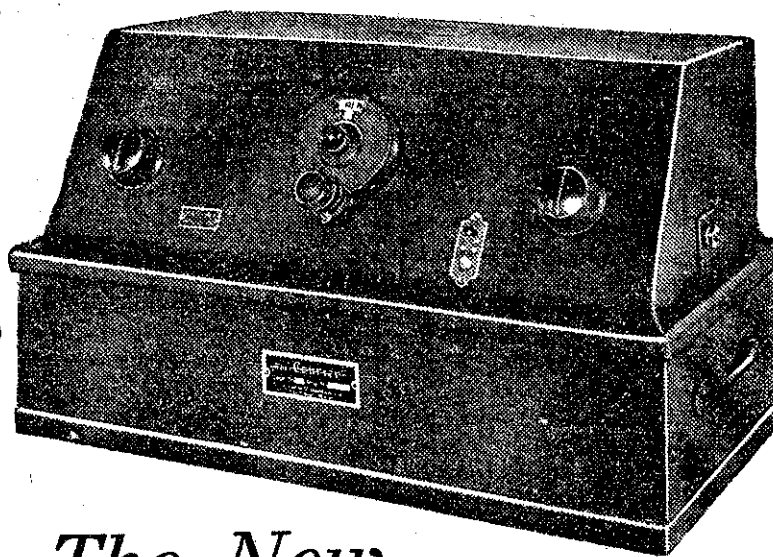
Telegrams: "Vesuvian," Chch.

P.O. Box 1118, Phone 2244

Dunedin: J. & A. P. SCOTT LTD.

Corner Albany and Leith Streets, Dunedin.
P.O. Box 209. Telegrams: "Japscoot."
'Phone 12-569.

THE "SEVEN POINT" RADIO SET



Price Complete

With Philips Valves; Orphean Speaker; Phones; L.B.C. 4-volt Accumulator; two 45-volt Burgess B Batteries; 45-volt Burgess C Battery; 100 feet 7/22 Aerial Wire; 12ft. Earth Wire; Six Insulators; 2 Inlead Tubes; Lightning Arrester; and Instruction Book.

£27 10s.

Set and Valves Only

£18 8s.

The New COURIER Q.R.3

Power—

On this point the "Courier Three" stands supreme. The special circuit employed, assisted by the combination long and short-wave attachment, enables a range of distant stations to be logged that is almost double in number to that of any similar Set. And the one-dial control makes tuning so simple that a child can operate the Set.

No Local Interference—

Unlike other 3-valve Sets on the market to-day the "Courier Three" suffers no interference from local broadcasters while tuned to receive more distant stations. Australian broadcasting is easily tuned into perfect clarity, while local stations are running on full power—yet there is no wave-trap to complicate the tuning.

Long or Short-wave Stations—

Short-wave Stations such as Blindhoven, Holland, Schenectady, U.S.A., Surrey, England, etc., are within reach of the "Courier Three." To change the Set from long to short-wave reception, the operator simply plugs in the aerial jack to a special socket and switches over the Hi and Lo Switch. What could be more simple?

Enjoy Gramophone Amplification—

A special plug is provided outside for gramophone "pick up," enabling a record to be played on any gramophone, and the sounds passed through the Set to issue from the loudspeaker with a richness, clarity, and when required, volume, that is seldom achieved by a gramophone. Thus, with a cheap portable gramophone, a "pick-up" and the "Courier Three" you also have a record-playing instrument that is considerably superior to the average gramophone.

Your Voice Amplified

By inserting a pair of phones into the "pick-up" socket in the back, and speaking into the phones, the operator's voice will be amplified through the loudspeaker. This arrangement can be used to advantage (and will cause much fun) at children's parties, dances, etc.



"Brings Tidings
From Afar."

The case is constructed of metal throughout with a duco bronze finish, which gives the Set a very handsome appearance, and adds to its Radio efficiency. Non-radiating, and absolutely efficient, the "Courier" Q.R.3 is remarkably simple in its operation.

Wholesale only from Manufacturers—

J. WISEMAN & SONS Ltd.

ALBERT STREET - AUCKLAND.

Cut out and post this Coupon TO-DAY!

J. WISEMAN & SONS, LTD.,
Albert Street, Auckland.

Please send me your leaflet on
"Courier" Receivers.

Name
Address

Portability—

The "Courier Three" is practically self-contained and portable—the "B" Batteries fitting into a special compartment in the base of the Set. Disconnect the aerial and the "A" Batteries, and your Set is ready to carry away.

Broadcast Music for Coming Week

"'Tis the deep music of the rolling world,
Kindling within the strings of the waved air—
Aeolian modulations."

—Shelley.

By
Bolton
Woods

Peer Gynt Suite.

The "Peer Gynt" Suite by Grieg, is one of the most popular pieces of music to be found on orchestral programmes. There are five parts to the suite, and it was at the request of the author of the play—Ibsen—that Grieg wrote the music. Writing of this time when her husband was composing the suite, Mrs. Grieg says: "An old Danish friend of mine who passed the window very often, and always saw him bending over his work, once said to me. 'You may be very glad, my child, that you have such a husband one who sits at his work from morning to night, instead of going off to the club to play cards!' I may say that that point of view had never occurred to me. It always seemed so much a matter of course that Grieg should be sitting steadily at his work."

The first two scenes from the suite, "Morning" and "Death of Ase," will be broadcast from 2YA on Friday, May 17.

An Old-time Minuet.

BOCHHERINI, whose talents were not appreciated in his own day, for he died in 1805 in great poverty, has written music of great beauty, indeed some of the most beautiful that has

survived of the eighteenth century Italian composers. He has 467 compositions to his credit, including an opera, two oratorios, and numbers of pieces for stringed instruments. His "Minuet" written in the antique style, is justly celebrated. Its grace and beauty create a picture of the old court minuet, with resplendent personages treading its stately measures, making the ballroom a picture of harmony, decorum, and romance.

The "Minuet" will be played as a violin solo with orchestral accompaniment at 2YA on Tuesday, May 14.

A Regal March.

"Pomp and Circumstance" March in D by Elgar was composed at the time of the Coronation of Edward VII, and with its companion piece, bearing the same title was first heard at a promenade concert in London on October 22, 1901. Magnificent as its title implies, it is a work of superb effectiveness, with a fine melody and with a broad sweep which never fails to make a deep impression. It appeals to hearers of every class, and its success has been phenomenal. The tune on which it is built has a breadth and swing which carries everything before it.

4YA are using a rendering of this by the Royal Albert Hall Orchestra, on Wednesday, May 15.

Humorous Haydn.

HAYDN'S "Surprise Symphony" is known in Germany as the symphony "with the drum stroke." It was composed in 1791, and is the third of the set of twelve symphonies composed for Salomon, who produced it for the first time at one of his concerts in London in 1792. The "surprise" comes off in the Andante in which the sections of the theme are marked by crashing chords for full orchestra and timpani. There is a story that these crashes were introduced to frighten the ladies of the audience, or to arouse them from sleep; but Haydn contradicted this, and said the intention was only to surprise the public by something new.

The orchestra at 2YA will play the "Surprise Symphony" on Monday, May 13.

Siebel's Song.

THE opera "Faust" is Gounod's masterpiece. It is the greatest favourite of all operas, having received, throughout the world, more performances than any other. The "Garden Scene" in the third act, is perhaps the most beautiful portion of the work. It is there that the lovely "Flower Song" occurs, sung by Siebel, who, entering the garden, picks flowers to bear his message of love to Marguerite, only to find that they wither and fade in his hand, as prophesied by Mephistopheles. He, however, presently breaks the spell by dipping his hand in holy water.

Mrs. Dorothy Kay will sing the "Flower Song" from Gounod's "Faust" at 1YA on Friday, May 17.

Immortal Schubert.

MANY people are not aware that "Ave Maria" is a setting of Sir Walter Scott's words. It was written in 1825, and of it Schubert said: "My new songs from Walter Scott's 'Lady of the Lake' have been very successful. People were very astonished at the devotion which I have thrown into the hymn to the Blessed Virgin, and it seems to have seized and impressed everybody. I think that the reason of this is that I never force myself into devotion or compose hymns or prayers unless I am really overpowered by the feeling; that alone is real, true devotion." There is no doubt about the inspiration, in this case, of the beautifully easy and gracefully-moving voice part and accompaniment. It is one of Schubert's most beautiful songs; a deeply religious mood is created in its long sustained phrases, heard against celestial accompaniment.

Mrs. A. E. Schade will sing "Ave Maria" at 1YA on Sunday, May 12.

"The Maid of Orleans."

JOAN of Arc was a peasant girl, the daughter of a small farmer of Domremy. She went to the King of France and told him that angels had appeared to her and told her that she should lead the French forces to victory against the English, and that he should be crowned in the town of Rheims. Success followed success, and at last she reached Rheims, where the king was crowned. She then wished to return home, but the French Court had found how useful she was, and refused to let her go. At the siege of Compiègne she fell off her horse, and was taken prisoner. After the custom of the time, she was sold by her captor to the Duke of Burgundy, and again by the Duke into the hands of the English. In the eyes of her enemies her triumphs were the results of sorcery, for the belief in witchcraft was then a real and living power among all classes of people. She was tried by an Ecclesiastical Court, headed by the Bishop of Beauvais, and was condemned to be burnt to death. A great pile was raised in the market-place of Rouen, and there the heroic soul of the poor young country girl passed

away. A statue of Joan of Arc now marks the spot where she suffered death.

Miss Leila Armitage will recite "The Speech of Joan of Arc Before Her Execution," at 1YA, on Thursday, May 16, on the Radio Society's programme.

Iago's Creed.

THE "Credo" in Verdi's "Othello," occurs in the second act. The scene is laid in a room on the ground floor of the castle with a garden at the back, and porches at the sides. The curtain rises and Iago is advising Cassio to beg Desdemona to intercede for him with Othello. Cassio goes out, Iago follows him with a look of contempt, and delivers himself of his famous "Credo." He believes only in a cruel God, who has made him in his own image. "From some vile germ I am born; I am wicked because I am a man, and feel the elemental mud in my being. I believe that the good man is only a bantering comedian, and everything about him—tears, kisses, sacrifices, and honour—nothing but falsehood. After all this absurdity comes Death. And then? And then? Death itself is nothing, and Heaven only is an ancient idle tale."

Mr. Hartley Warburton will sing the "Credo" at 1YA on Friday, May 17.

A Victim of Ambition.

CARDINAL WOLSEY (1471-1530), churchman and statesman, was sent by Henry VIII as Ambassador to Germany. He was appointed Bishop of Lincoln, Bishop of Bath and Wells, Bishop of Durham, Bishop of Winchester, and finally Archbishop of York. He was in high favour with the King, who made him his Chancellor. He lived with the magnificence of a royal prince. At Hampton Court, a beautiful village on the Thames, Wolsey built himself a wonderful palace, which he afterwards presented to his master, Henry. His ambition and arrogance made him many foes at court, and his conduct in the matter of Henry's divorce lost him the favour of the King. He was deprived of all his offices, and summoned to London to answer a charge

"YOUR ESTATE"

Free

A most interesting booklet—one that has been found of valuable guidance by hundreds of people—is published by the Public Trust Office with the title, "Your Estate."

Its forty-eight pages are packed with useful information about the Making of a Will, the Choice of a Trustee, and the many unique functions and services of the Public Trust Office.

If you haven't read it, get your copy to-day. Obtainable from any office or agent of the Public Trust Office, or free by post from the Public Trust Office, Wellington.



DUBILIER
RADIO PRODUCTS

Fit these Variable Condensers into your Receiver. The 200-to-1 Ratio Vernier will bring in Stations not heard before.

.0003, .0005 Complete with Dial 15/-
.0001 Midget, each 6/6

A. E. STRANGE 404 WORCESTER ST., CHRISTCHURCH

of high treason, but died on the journey at Leicester Abbey.

Miss Madge Horn will give a dramatic recital, "Cardinal Wolsey meditates at Hampton Court," at 1YA on Thursday, May 16, on the Radio Society's programme.

The Gypsy Opera.

"The Bohemian Girl" remains one of the most successful operas in English ever produced. It was composed by an Irishman, Michael Balfe, in 1843. The plot is from Cervantes' "Preciosa." Thaddeus, a Polish nobleman, is exiled and joins a band of gypsies. The leader of the band is Devilshoof, who steals the five-year-old daughter, Arline, of Count Arnheim. Twelve years elapse, and Arline falls in love with Thaddeus, who, however, is looked upon with favour by the Gypsy Queen. She falsely accuses Arline of theft, and she is brought before the Count to be tried. He recognises his daughter, and she returns to him. She pines for her gypsy friends and her lover, and Devilshoof arranges a meeting between the lovers. The queen discloses his hiding-place to the Count, who is furious, and only considers Thaddeus as a prospective son-in-law when he learns of the young man's true rank and station.

On Friday, May 17, at 2YA, the orchestra will play the overture, and a record of vocal gems from "The Bohemian Girl" will be used.

Hugo Via Verdi.

THE text of Verdi's "Ernani" is taken from Victor Hugo's "Hernani." Hugo did his best to prevent the performance of this unauthorised operatic version of his work, and a compromise had to be made by calling the opera "Il Proscritto," and changing the nationality of the characters and their locals to Italian and Italy. The well known "O Sommo Carlo" (Oh, Noble Carlos) occurs in the finale of the third act. Don Carlos, King of Spain, overhears Ernani and Silva plotting to kill him. He reveals himself, and orders their instant execution. Elvira, betrothed to Silva, but in love with Ernani, makes an impassioned appeal for their lives. The king pardons the plotters and unites Elvira and Ernani, while the assembled courtiers acclaim the nobility of his action.

A record of this solo sung by Riccardo Stracciari and chorus, will be used at 4YA on Monday, May 13.

The Linden Tree.

"DER LINDENBAUM," the Linden Tree, is from Schubert's last cycle of songs, "The Winter Journey," written just before he died. The poem is by Muller, and is the musing of a

Our Mail Bag

Will correspondents please practice brevity, as heavy demands are now made on space. All letters must be signed and address given as proof of genuineness; noms de plume for publication are permitted. Address correspondence Editor, "Radio Record," P.O. Box 1032, Wellington.

ANSWERS TO CORRESPONDENTS.

"AOE" (Wellington).—No; the Wurlitzer Organ installed in the "De Luxe" Theatre has never been broadcast by 2YA.

Port Nicholson Band Appreciated.

WHILE listening in last evening to the relay of the recital by the Port Nicholson Silver Band from the Grand Opera House. I was pleased with the rendering of the hymn "Nearer, my God, to Thee," and in particular the second verse. I have not heard prior to this of brass bands using the "intermittent" system of breathing in this country. It is about seventeen years since the writer was playing in a brass band at a contest in which this method was employed. In the writer's opinion it conduces to smoothness and renders the playing of heavy movements and crescendoes easier on the players. Associated with the writer in the same band at the contest was the well-known cornet player Mr. W. Stevenson, who, I believe, is in Wellington at the present time, as is also the conductor, Mr. A. Sutherland, who put the system into use with the band and church choirs.

I listened in but a short time to 1YA broadcasting on relay from Wellington. What I heard was free from noises and quite clear, with good L.S. volume. In the writer's opinion there will be a good number of people up and down New Zealand looking for the item set down as "Tacet," with the possible exception of drummers. Wishing the "Radio Record" and the Radio Broadcasting Company every success.—I am, etc., A. E. ELLISTON (Reefton).

Rebroadcast Appreciated.

I WOULD like to express my thanks to the Broadcasting Company for the initiative they displayed in relay-

lover who stands by a lime tree on which he has carved the words of love in days long past. There are many beautiful effects in this beautiful melody, with its artistically conceived piano part, but perhaps the most appealing is where the poet describes the cold wind rising.

Miss Mollie Andrews will sing "The Linden Tree" from 4YA on Monday, May 13.

ing from 3LO, Melbourne, the description of the Leckie-Wilson contest. The relay was successful from every point of view, and, I feel sure, was much appreciated by boxing fans throughout New Zealand. I am also looking forward to the dinner session music from 2YA. Before closing, just a word in season, regarding Sunday programmes. Station 1YA, to my mind, are broadcasting music per gramophone which does not meet with the tastes of most music-lovers. What is wanted is music with more life in it—cheerful, bright music—instead of the religious programmes at present broadcast. I like church broadcast in the evening, but when you get it all day Sunday it begins to pall on one. Also, I think the literary selection would be improved by its omission from the programme.—W. K. McLEAN (Glen Massey).

Saturday Broadcasts.

WE are in business as radio dealers, and naturally it is through the Broadcasting Company, or by a demonstration of their programmes, that we are able to interest prospective clients in radio receivers. Whilst fully appreciating the efforts you are making towards perfecting wireless broadcasting, we feel we have a cause for complaint. Most receivers are sold upon their reception of a musical programme and we feel it would be to the better interests of both yourselves and radio dealers generally, if you would arrange to give at least one musical programme on Saturday afternoons. At the present time, no matter in which direction one turns, one merely logs football or racing, and we assure you, in giving a demonstration, with probably a shop full of clients, a description of an average football match is not conducive to sales. We feel sure that it would be to our mutual advantage could you arrange for alternate programmes of sport and music from 2YA and 1YA on Saturday afternoons. At all events the suggestion may be worthy of your consideration, as the writer has discussed the matter with other radio dealers of this town, and can assure you there is a consensus of opinion, that week-end broadcasts should not consist entirely of sport. Do not for one moment consider that we are not interested in sport in general. We have players on the staff besides enthusiasts.

but at the moment we are viewing the point from a business possibility—that is to say, sales.—H. T. COOPER.

P.S.: In view of the fact that the cost of a dealer's license has rise 150 per cent., from a business proposition, we can expect at least 75 per cent. better service, or at least should expect it. We will hope that quite a proportion of this extra fee will be used in this direction.

"1812."

I was surprised to read the statement that the performance by the Wellington Symphony Orchestra of the 1812 Overture with full orchestral effects would be the initial performance in that direction in New Zealand. This is hardly correct. The Auckland Orchestral Society gave it over twenty-five years ago, with full orchestra and brass band, and also with artillery effects. They had guns going off in the corridors of the old Choral Hall in Auckland, and the right "atmosphere" was secured very satisfactorily, for the place reeked with gunpowder smoke. I understand also that the Christchurch Orchestral Society and Woolston Brass Band gave the same item in combination in Christchurch a number of years ago. Further, the Auckland Bohemian Orchestra, of about 80 performers, has given it in the fullest manner several times.

I mention these prior performances not in any desire to discredit the ambitious effort of the Wellington Symphony Orchestra, to which I extend best wishes for fullest success, but to do justice to the other organisations which have served their public well in the past by undertaking full orchestral performances. I may say that I listened in to the 2YA relay of the opening concert of the season by the Wellington Symphony Orchestra, and heartily congratulate Mr. de Mauny upon the success achieved.—MUSIC (Auckland).

Reception in Westport.

IN forwarding his subscription for "Record" and "Guide," "Critic" (Westport) writes:—

1YA comes in well down here with hardly a fade. 2YA, while during daylight comes in with excellent volume on the speaker, fades quite a great deal at night time, but this is not the fault of the station—a range, the foot of which completely encircles my set, comes down to within fifty yards of my house. The Australian stations make up for this, as they come in with great volume and tone. 3YA is good, but surges and 4YA on the nights we hear him is weak with rapid fading, but this is only to be expected as my locality is to blame, but I hardly ever tune in these two stations unless it is to get special items.

CALL IN AND SEE THE—

COSSOR "MELODY MAKER"

Price, complete with three Cossor Valves—£10.

ELECTRIC MODEL CROSLY RECEIVING SETS—

From £35/5/-.

Complete, Works off Lighting Socket.

MULLARD "SCREEN GRID FOUR" KIT.

Price £8; Short-wave Coils 15/- Extra.

G. G. MACQUARRIE LTD.


CROSLY RADIO SALES AND SERVICE.

55 WILLIS STREET

WELLINGTON.

Removing shortly to 120 Willis Street (opposite).

Coughs gone thanks to **Pulmonas** RELIEF BY INHALATION



Exide BATTERIES

MEAN DEPENDABILITY. Installed at 2YA Wellington.

All sizes. From 9/- each.

EXIDE SERVICE STATION

79 Kent Terrace, WELLINGTON.

IN BRIEF.

"NEW CHUM" (Palmerston North)—Before we can give you explicit directions we would require to see the lay-out of your set. If you forward this, we shall do our best to assist you.

"B" Class Stations.

"BLUEBIRD" (New Plymouth) asks: (1) The wavelength and power of 2AQ, Taihape, but as announced some time ago, 2AQ has closed down, and its owner removed to Auckland to experiment with television. (2) The wavelength and power of 2ZL, Wanganui—500 metres, 25 watts. (3) "Are there two wireless stations in Gisborne, because the call sign in the "Radio Record" I have is 2YM, and whenever I get them they call 2 ZM?"

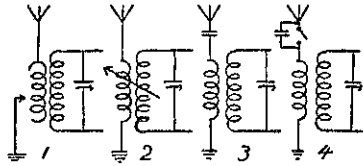
A.: 2ZM is correct, and if 2YM has been given as the call sign in the "Record" it has been done so erroneously.

Dead Spots.

"L. J." (Wellington) writes: I find that there are two dead spots, both very bad ones. In one case the only way the set will oscillate is by turning down the primary till it is on the baseboard, yet on detaching the aerial the set will oscillate all over the dial.

A.: As briefly as can be explained, dead spots originate through the resonance effect of the aerial. This is naturally turned to a certain wavelength, and when the set becomes tuned to the same wavelength, a dead spot occurs, and it is impossible to receive signals in the affected area. The cure suggests itself—alter the tuning of the aerial, and this

can be done in any of the ways suggested in the accompanying diagram. The easiest way to effect this is by using a small condenser in series with the aerial. Actually, this will not cure the dead spot, but it will shift it further up or down the frequency scale, and stations in the area once affected can now be turned in. Another method suggested by the diagram is a tapped



primary (diagram 1), but this suffers from the disadvantage of dead-end losses. Diagram 2 illustrates primary and secondary whose relationship with one another is variable, like a tickler coil and secondary coil, of course of the usual specifications for aerial and secondary. Diagram 3 illustrates a fixed condenser in series with the primary, but this too will either permanently shift the dead spot up or down. Diagram 4 illustrates a method of using a switch and a condenser, so that the dead spot may be shifted to either one of two positions.

Questions and Answers

This is probably the next best arrangement from the variable condenser. A neutralising condenser in the aerial lead would be excellent.

The correspondent complains of interference from an amateur. As he suggests, he should write the District Telegraph Engineer, lodging his complaint.

The Use of Power Valves.

TWO correspondents have raised the question of power valves. "H.J.T." (Gisborne) states: My B batteries have a habit of cutting out in about five or six months—rather a short time, I think. (We don't. That is the usual life of a battery.) I have seen recently a set using a power valve with 22½ volts grid bias instead of 6, as I use. Could you give me some particulars?

A.: Yes, certainly. The amount of grid bias depends on the type of valve to be used. A good power valve such as the 171 type Radiotron, PM254 Mullard, J71A Ceco, 610P Cossor, or B403 Philips, is essential if tone is to be obtained. Most of these valves will take up to 150 volts plate current, but this can rarely be supplied except by means of an eliminator. When 100 volts are applied to any of them, they will require approximately 15 volts grid bias. Smaller valves, for example, Radiotron 112A, Philips 400, and similar valves, require much less bias, usually about 6 volts, but they will not handle the amount of current the bigger power valves will handle, and consequently distortion arises. Unfortunately, unless we know the type of valve being used by the correspondent in his last stage, we cannot specifically state the amount of bias to be used. In the "Listeners' Guide," valve tables are published, giving particulars of bias, etc., for almost every valve on the New Zealand market.

A NOTHER correspondent, "D.S.", of Market Cross, writes: "I have an American 5-valve set, using 90 volts, with 4½ volts grid bias. Bad distortion and rattle is evident if the volume is turned up, using a horn speaker. It is not quite so bad with a moving coil, but it is yet bad. The set is provided with 201A valves only. What valve would you advise for the last stage, the voltage, and the grid bias?"

A.: It is quite evident that the distortion and rattle is caused through the last valve being unable to accommodate the volume. Bigger valves, such as those suggested to "H.J.T.", should be used with correspondingly increased grid bias, and plate voltage if possible. If the set is to be operated from batteries, 135 volts will be the optimum power, with a 22½ volt block used for bias, but if an eliminator is available there should be no difficulty in stepping the power up to 150 volts. Some makes of valves require very high grid voltage for this plate voltage, but power valves in this direction are by no means uniform, so that the correspondent would have to consult the characteristics of the valves given on the cartoons and the pamphlets that accompany them.

A power valve is really no different from any other valve, so that no alteration in the set other than additional power are required to fit them. The main characteristics is their ability to handle great volume without distortion, and where five or four valves precede the last stage, a power valve is essential if quality is to be realised.

The same correspondent asks: Is it necessary to alter the wiring to apply bias to the second last valve?

A.: Yes, slightly. On removing the set from its cabinet, it will be seen that one filament terminal of this valve connects with the second last audio transformer. Break this connection, taking the filament lead to the filament negative, and the transformer to "GB" 4½. Connect the positive of this battery to "A—" or to the other grid bias positive.

Changing Valves.

"W. B." (Dunedin) states that his set is of American manufacture, specifying American valves. He asks: "Would the neutralising condensers be suitable for English or Continental valves?"

A.: In changing from American to English or Continental valves, the set will have to be re-neutralised, that is, if these are being used in the radio frequency stages. It is most unlikely that the neutralising condenser will be insufficient capacity to effect this. Methods of neutralisation have been described in our columns and in the "Listeners' Guide."

Increasing Anode Voltage.

"IN Trouble" (Mosgiel) wonders why increasing the plate voltages of his 2-valve set from 45 to 85 does not perceptibly increase volume.

A.: If the connections are made correctly, this should very much bring up the volume, but it is possible that in this case there is one voltage tapping only to supply both the detector and the audio valve. That is, the one that went originally to 45 volts. If now this is increased to 85 the full voltage is being applied to the detector, and as the maximum voltage here should be just sufficient to make the set oscillate, the increased voltage can have none but a detrimental effect. Probably, applying 22½ volts or, at the most, 45, to the detector, will strengthen the signals.

The correspondent adds that he cannot receive certain stations on a low wavelength unless he disconnects the earth, when they come in with good volume. He has noticed the same phenomenon with short-wave.

A.: This is quite the usual with short-wave—these sets invariably work better without an earth.

Fluctuating Current.

"N.O.F." (Hokitika) states that the power in his district fluctuates a great deal and is asking the effect of this on an "A.B.C." eliminator.

A.: Fluctuating current is one of the restrictions to the widespread use of "A.B.C." eliminators. When the surge up and down is considerable, an "A" battery eliminator can be rendered almost useless, but the surge has not such a marked effect upon the "B" and "C" eliminators. The voltage fluctuation is

Are You Having Trouble?

Does your Set fall short of expectations?
If so, do you know where to look for the trouble?

The 1929-30 Listener's Guide has a Special Service Section to help you.

A selection of the topics invaluable to the amateur are:—

Absence of Signals.

Dead Spots.

Weak Reception.

Distortion, Noises.

Howling and Neutralization.

Now available from all Dealers at 2/6 or

Direct from the Publishers, with 3d. Postage added.

N.Z. RADIO RECORD

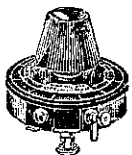
P.O. Box 1032. Wellington.



Lissen R.C.C. Unit.
Price 6/9



Lissen Mansbridge Condenser. Prices:
.01 mfd, 2/6; .1 mfd, 2/6; .25 mfd, 2/8; .5 mfd, 3/-; 1 mfd, 3/6; 2 mfd, 4/6.



Lissen Rheostat, 7 and 35 ohms.
Price 3/6 each



Lissen Grid Leak, Fixed, 1, 2, 3 and 4 meg.
Price 1/6 each
Variable 2/6

LISSEN

RADIO PARTS

Lead the World in Value and Performance!

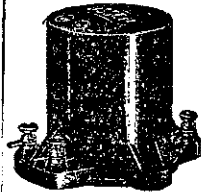
Remember when you are building or adding to your Set, that although often a certain make of part is mentioned, you can, in practically every instance use a Lissen Part, and not only get louder, clearer signals, but save yourself a considerable amount of money too!

Remember Lissen Parts are British Made.

Your Radio Dealer can supply Lissen Parts—or send cash direct to—

Abel, Smeeton Ltd.

Customs St. E., Auckland



Lissen Transformer, 12½. 12 months' guarantee.
Super Transformer, 25/-.



Lissen Fixed Condenser, all sizes.
Price 1/6 each



Lissen H.F. and L.F. Chokes.
Price 7/6 each



Lissen Neutralising Condenser.
Price 6/- each

Education by Wireless

W.E.A. Lecture—Modern Social Drama



FOLLOWING are the notes of a lecture to be given from 4YA on Tuesday, May 14, at 7.30 p.m., under the auspices of the Workers' Educational Association, University of Otago.

If one could take off the roofs of all modern buildings and peer below, one would get an idea of the scope and variety of modern plays. No subject is too sacred, too petty, too sordid, too lofty, too intimate for the modern writer. He will write about anything. At one moment he is lifting us to the heights with an inspiring interpretation of Christ's martyrdom, as in Masfield's "The Trial of Jesus." In another he is dragging us into the depths, as in Jean O'Casey's "The Silver Tassie." He can reproduce the terror of war and revolution or recreate the glory of St. Joan or Florence Nightingale.

The Subjects.

AN important social problem is the future of machinery. Will it reduce men to the status of mere machine-minders? Will it bring increased leisure and an improved standard of living for all? What does the dramatist think of Henry Ford? "R.U.R." is an effort at interpretation. The machines are controlled by men who themselves are made by machines. These Robots, as the machine-men are called, are efficient—they have no emotions, they do not waste time in love-making or eating, they

so small in comparison with the large voltages delivered that its effect is hardly felt. However, with the "A" things are different. The voltage delivered is very small, and any fluctuation means a big percentage in the output. It can be overcome by floating a battery, that is, by connecting each lead from the eliminator to an "A" battery of the required strength, and from this leads are taken to the set in the usual manner. Current will then be supplied only when the potential drop makes the output of the transformer lower than the battery.

Magnetic-bar Amplifiers.

WOULD you please inform me if it is possible to build a bar amplifier for a crystal set, and in doing so what steps to take?—"Crystalline" (Wellington).

A.: Bar amplifiers are unsuitable for amateur constructors.

merely work. Here is an attempt not to portray individuals, but to interpret a problem.

"The Rumour" by C. K. Munro deals with the engineering of wars in the interest of financiers. "The Insect Play" reduces men to the size and status of insects, and miserable, petty being they are! "Masses and Men" tries to explain the economic forces that underlie a modern revolution.

Then there are the dozens of plays that stress the problems of the individual—marriage, love, patriotism, duty, and so on, according to the dozens of theories of conduct that are floating around in the modern world. The impression is very puzzling, worrying, and to some decadent. We live in an age of experiments.

The Scenery.

REALISTIC subjects need realistic scenery. There is a growing tendency to replace the flat scenery by curtains, screens and lights which suggest rather than portray. In "The Adding Machine," by Elmer Rice, an effort is made to represent the monotony of much of modern life. The characters are given not names, but labels, which try to suggest the universality of the problem. Each actor, further, has two streams of speech to manage—one which represents the bald, ugly conversation of life, and another which reveals hidden thoughts and emotions—more violent and even more ugly. At one point it is necessary to flash coloured lights across the stage to reveal the full extent of the leading character's emotions.

In a Russian play at the back of the stage is a type of speedometer which registers the speed of the emotions of the actors—the wheel turns slowly when they are bored, and whirls rapidly in a love scene!

In "Hoopla," to denote the passing of years between the scenes, a film of world events is shown. To make for rapid action, the author uses a setting which enables four scenes to be presented simultaneously. In some plays there is no such thing as scenery, but suggestions, or symbols, or constructions.

The scenery is used not to please the eye, not even to complete the picture, like a bowl of flowers in the

study, but merely to help on the action, or to assist the interpretation.

Again, in an attempt to suggest that the stage is merely the mirror of daily life, the audience may be drawn in by singing a song relevant to the play, the actors may come up from the audience, or they may hold a discussion across the seated people.

In a Russian theatre the actors change their costumes before the audience.

Discussion.

A LIBRARY would be needed to keep up to date with the modern plays, but the following are selected as being characteristic of the contemporary movements: "R.U.R."—Capeh; "Masses and Men"—E. Toller; "Hoopla"—E. Toller; "The Insect Play"—Capeh; "Your People"—Miles Malleison; "A Strange Interlude"—R.U.R.; "The Rumour"—C. K. Munro. Those interested in modern drama are invited to join the D.E.A. Correspondence Course, attached to which is a library of plays.

Next week, Dr. Fisher will begin a series of wireless lectures on "Why Incomes are Unequal." Further lectures on the drama will be given when listeners-in inform the Otago W.E.A. of their desires. In the meantime the Association invites correspondence on the following questions:—

1. Do you believe that many modern plays will live? Why? We know that both Aristophanes and Euripides were propagandists. Why, then, can we still read them with satisfaction?

2. Do the great problems of life vary from age to age? If Shakespeare were alive to-day in what form and style would his plays be written? Did Shakespeare get the effects in his plays that the moderns are trying to get—realism, the inner thoughts of the characters, full emotional expression, realistic scenery, social forces, the events outside the play, the experiences of war and revolution?

3. Do you think that there are any subjects that should not be placed in a play? Or do you think that the important factor is how the subjects are treated by the author or producer? Do you think actors should swear?

All information, suggestions, criticisms, answers to "Radio Lectures," Secretary, W.E.A., Otago University, Dunedin.

The Poor Printer!

EXPERIENCE shows that it is a physical impossibility to avoid an occasional printer's error. This is understandable in view of the pace and pressure under which most newspapers are evolved. Some of these errors contain a deal of unconscious humour. Some of the best that have come under our notice for some little while are contained in the following paragraph. Is it possible that the reward promised in the concluding sentence will act as a stimulus to original wireless research?

"Wanted! The Benignant Beam.

"I note a recrudescence of reports about alleged 'death rays,' and I see that our old friend who kills mice by radio has battered his way into the papers again. Why do men dream so much about easier ways of killing when to kill is so much easier than to cure? I want to see the scientist begin the search for the benignant ray which will heal tissue, purify blood, destroy evil germs and arrest the progress of malignant growths. Immortality waits for its discoverer."

METRODYNE 7-TUBE SET

Single Dial Radio

From £19/10/-, with Valves

ROYDS-HOWARD CO., Chch.

DEPARTMENT OF TOURIST AND HEALTH RESORTS

When Travelling in New Zealand book your tour with

The Nearest Government Tourist Bureau

BOOKING BUREAUX AT:—

AUCKLAND	Government Life Insurance Bldg., Queen St.
TE AROHA	Whitaker Street
ROTORUA	Fenton Street
WANGANUI	Rutland Buildings (Opp. G.P.O.)
WELLINGTON	Dominion Building, Wakefield Street
NELSON	Hardy Street
CHRISTCHURCH	83 Cathedral Square
GREYMOOUTH	Mackay Street
DUNEDIN	Rattray Street
INVERCARGILL	Esik Street
NAPIER	Hastings Street
WESTPORT	Next Bank of N.Z.

AUSTRALIAN OFFICES:—

SYDNEY	London Bank Chambers, 20 Martin Place
MELBOURNE	Dominion Chambers, 59 William Street
ADELAIDE	Director South Australia Intelligence Bureau
BRISBANE	King House, Queen Street
PERTH	285 Queen's Buildings, Murray Street

JUST ARRIVED! Britain's Greatest Radio Achievement

COSSOR "MELODY MAKER"

3-Valve Screen-Grid Kit-Set

Complete with Metal Cabinet; no holes to drill; no wires to solder; elaborate instructions fully illustrated; can be assembled by anyone! Selective! Efficient! Reliable! With 3 Cossor Valves.

PRICE ONLY £10

SUPERADIO LIMITED

147 QUEEN STREET, AUCKLAND

Mention the "Radio Record."

Next Week's Features

1YA Features

THE Rev. Ivor Bertram will be the preacher at St. David's Presbyterian Church on Sunday evening when the service will be broadcast.

The artists contributing to the after-church concert will be Mrs. A. E. Schade, Mrs. L. Edwards and Sergeant Hallahan. It will be a programme of an excellent type.

AN excellent vocal programme will be presented on Wednesday evening by Madame Mary Towsey's Quartet. The concerted numbers will be "An Old Love Song" and "Off in the Stilly Night." There will be a duet by Madame Mary Towsey and Mr. Richards: "In the Garden of Your Heart." Madame will also be heard in two soprano solos: "I Love Thee" and "The Princess." A contralto solo, "Like to the Damask Rose" will be sung by Miss Edna Peace. Mr. John McDougall's tenor solos will be "Who is Sylvia?" and "The Gentle Maiden." "The Wanderer" and "Nelson's Gone a-Sailing" will be sung by Mr. Reg. Richards. The Asquiths will give one of their popular drawing room entertainments, using all "request" numbers in response to many applications.

ON Thursday evening the Auckland Radio Society will hold the microphone. The society will present a complete programme and there will be an address by Mr. G. T. Jones, vice-president of the Auckland Radio Society, on the objects of the society. The evening's programme will comprise vocal and instrumental items. There will be a dramatic recital by Miss Leila Armitage, "The Speech of Joan of Arc before her Execution," also a dramatic recital by Miss Madge Horn, "Cardinal Wolsey Meditates at Hampton Court." Misses Doris Messer and Gladys Grayson will give a humorous sketch and further humour will be provided by Mr. D. McKivett in "The Egg" and "Because I was a Boy." The instrumental items will comprise saxophone solos by Mr. G. Camp, banjo solos by Mr. A. J. Foster, and cornet solos by Mr. R. Davies.

FRIDAY evening will see the first appearance of Madame Humphrey Steward's Octet, which will open the programme with a concerted number,



A REMARKABLE BANJO BAND FOR 3YA.

A special attraction for 3YA on Wednesday, May 15, will be the appearance of the Christchurch United Banjo Band, under the direction of Mr. Louis W. Bloy. This is the largest band of its kind in Australasia. There are thirty members playing banjolins, tenor banjos, standard banjos, bass and contra bass banjos and a trombone. They have accepted a good many professional engagements, including a week at the Crystal Palace Picture Theatre, Christchurch, and have received great praise for their musical renderings of characteristic music, national airs, and jazz. All music is arranged by Mr. Bloy, who is well known as a soloist, having played in all the principal vaudeville and picture theatres in Australasia.

"My Soul." Members of the octet will also sing solos and in addition Miss Mavis Grevatt, well-known harpist, will play "Believe me if All Those Endearing Young Charms." Also appearing on the same programme will be Mr. Arthur E. Wilson, organist, who will contribute two brief organ recitals in which he will be associated with Mr. Clinton Williams (baritone).

ON Saturday evening there will be the usual variety entertainment, in which will figure the Bohemian Duo and Ingall's Hawaiian Orchestra. Mr. Dan Flood will provide humorous interludes, Mr. Fred Baker, the popular baritone, singing "Drake Goes West," "Young Tom o' Devon" and "Tommy Lad."

2YA Items

THE service conducted by the Rev. J. R. Blanchard in St. John's Presbyterian Church will be broadcast on Sunday evening. Afterwards will follow the relay of the concert by the Port Nicholson Silver Band in the Grand Opera House.

ON Monday evening Mr. A. J. Nicholls will continue his interesting lectures on "Gardening." Miss Nora Greene, who will be singing, will present as her items "An Old Garden," "The Woodland Tailor," Brahms' "Sapphic Ode" and "The Forge"; with Mr. Roy Hill she will be heard in Tosti's favourite "Venetian Song." The soprano vocalist for the evening will be Mrs. W. Fraser Morrish, who will sing "If My Songs Were Only Winged" and Liszt's "The Loreley." Mr. Roy Hill's solos will be "Afton Water" and "An Briskay Love Lift," one of the Hebridean folk songs; with a cello obbligato played by Miss Lilla

Hill he will sing "Had You But Known." The three songs chosen by Mr. S. E. Rodger, popular baritone, will be "The Last Watch," "The Link Divine" and "Mate o' Mine." Also on Monday evening's programme there will be a short organ recital by Mr. H. Temple White, who will present two solos and will be associated with Mr. Harold Oakes (trombone) in "Softly Awakes My Heart." A dramatic and humorous recitation will be given by Mr. Norman Aitken, whose items will be "The Face on the Bar Room Floor" and the humorous number "The Taxi Driver's Story."

WELLINGTON'S popular tenor, Mr. G. Austin Blackie, will, in response to a request, repeat "Mary" on Tuesday evening. The other solo items will be "Joy and Pleasure" and "Love, I Have Won Thee." The well-known singer of popular songs, Mrs. Mabel Jackson, will be heard in three items and humorous numbers will be recited by Mr. Henry Desmond, namely, "Joe's Bassoon" and "Without Prejudice." The orchestral portion of the

SIEMENS

RADIO BATTERIES

Absolutely Silent in Action.
Catalogue posted free on request
N.Z. Distributors:
CORY-WRIGHT & SALMON
Engineers, Wellington, Auckland



COMRIE SMITH, & WARDLE LTD.

Phone 23-323. 77 KENT TERRACE WELLINGTON.

MOTOR REPAIR SPECIALISTS.

All Makes of Radio Batteries, and Motor Accessories Stocked.

Whippet Service Station.

Authorised Chevrolet Station.

programme on Tuesday evening will include "Pique Dame," "Old Favourites" and "Three Dances from Tom Jones." There will be dance music at 9.30 till 11.

ON Thursday evening the Wellington City Silver Band, under the conductor, Mr. H. Baker, will provide the instrumental portion of the programme, the items selected being of a wide and popular range. The old favourites, The Mellow Fellows, will be the vocalists, assisted by Mrs. E. Ransom Myers (mezzo-soprano). Mr. T. J. O'Connor will be heard in three original numbers, the humorous "A Railway Mix-up" and also "The Lie" and "The Truth." He will also recite the well-known "How We Saved the Barge." A lecturette on "Dancing" will be given by Miss Margaret O'Connor.

FOR Friday evening Mr. D. McKenzie will give another of his series of talks on "The Laws of Rugby." Mr. and Mrs. Albert Russell, the well-known entertainers at 2YA, will add considerably to the enjoyment of Friday evening's programme of light opera. Solos from "Madame Butterfly," "The Lady of the Rose," "The Masked Ball," "I Pagliacci," "The Quaker Girl," "High Jinks" and "Lilac Time" will be sung by Miss Eileen North (soprano), Mrs. Mary Porteous (contralto), Mr. Charles Edwards (tenor), and Mr. Eric Harrison (baritone). Mr. Edwards will also be heard in Speaks' popular setting of "On the Road to Mandalay." The orchestral selections for Friday evening will be chosen from some of the most popular operas, "The Bohemian Girl" and "The Beggars' Opera." Other selections will comprise "Master Melodies from Famous Light Operas." On Saturday evening "The Strollers" will entertain with a variety programme. They have previously appeared at 2YA and are a very talented and popular combination. The items will be all of a light nature, admirably suited for a Saturday night entertainment.

3YA Features

THE religious service broadcast on Sunday evening will be relayed from the Church of Christ, Moorhouse Avenue, the preacher being Pastor J. Crawford.

After the church service there will be a broadcast from the studio, the first portion of the entertainment comprising a gramophone lecture-recital by Mr. Reg. Lund. Then will follow a concert provided by Miss Myrtle Towse (mezzo-soprano), Mrs. McKenzie Muirson (contralto), Mr. Bradleigh Crowhurst (tenor), Mr. Bernard Rennell (baritone) and the Studio Trio.

Mr. E. J. Bell will give his fortnightly Book Review on Monday evening.

A NEW singer for 3YA on Monday evening will be Mr. W. B. Brittenden, baritone. Mr. Brittenden is a teacher of singing. He has been very successful at competitions and he toured with the Sistine Choir as an extra vocalist when the choir visited New Zealand some years ago. Mr. Brittenden has a large repertoire of songs and will be a distinct acquisition to the roll of 3YA artists.

Other vocalists for Monday evening will be Mrs. Bessie Stewart (mezzo-soprano) and Madame Eva Litchfield (contralto). There will be two humorous recitations by Mr. Ronald Foster.

THE programme to be given by the Municipal Band, under Mr. W. McDowell, the conductor, will comprise two marches, "Brilliant" and "Victoria," a trombone novelty, "Sliding

McDowell, the conductor, will comprise two marches, "Brilliant" and "Victoria," a trombone novelty, "Sliding



Mr. Bloy, who arranges the music for 3YA Banjo Band.

Jim," a selection "Knight Errant," a selection from "Rose Marie" and a fox-trot "That's Her Now." Instrumental items will also be played by the Studio Trio.

ON Wednesday evening the fourth and last instalment of the great opera, "Rigoletto," will be presented. This is a very dramatic section and the story will be again told by Mr. W. H. Dixon, Professor of Singing.

ON Wednesday evening also the Christchurch United Banjo Band under Mr. Louis W. Bloy will make its first radio appearance, providing 20 minutes of melody, comprising a march, Irish airs, plantation songs and medleys. The vocalists for the evening will be Miss Mary Taylor and Mr. T. G. Rogers. There will be instrumental music by the Bohemian Quintet.

CLASSICAL and operatic numbers will be included in Thursday evening's programme. Miss Merle Miller will sing "Musetta's Song" (from "La Boheme," "At Night" and "After a Dream." Miss Eileen Grennell will sing the "Waltz Song" (from "Tom Jones"), "Dream Boat" and "Daffodil Time." Mr. Harold Prescott will sing "Once Again" and "A Song of Thanksgiving." There will be a duet by Miss Merle Miller and Mr. Prescott. Mr. Fred C. Penfold will sing "I Would I were a King" and "To-morrow." "The Prison Trio" (from "Faust") will be sung by Miss Miller, Messrs. Prescott and Penfold. There will be cello solos by Mr. Harold Beck and selections by the Studio Trio.

NEXT week the Beckenham Male Quartet will appear on Friday evening, when a popular programme, including dance numbers, will be presented. The quartet numbers will be

"Where My Caravan Has Rested," "Cause I've Nothing Else to Do," "Lullaby," "Every Rustling Tree" and "Tom, Tom, the Piper's Son." There will also be solos and a duet.

A VERY interesting personality will appear on Friday evenings programme in the person of Mr. Albert Bland Holt, Jr., a nephew of the great Bland Holt. Mr. Albert Bland Holt is on a visit to Christchurch, and he will be heard from 3YA in elocutionary items.

On Saturday evening 3YA will rebroadcast 2YA.

4YA Items

THE feature of Monday evening's programme will be the presentation of portion of the popular light opera "Rose Marie," by the 4YA Harmonists, under the direction of Mr. I. J. Kirk-Burnand. The supporting vocal programme will also be of a very entertaining nature. There will be solos from the works of Tschai-lowsky, Schubert, Wagner, Elgar and Quilter, Miss Joyce Gould (elocutionist) will recite "The Rider at the Gate" (Masefield) and Newbolt's "He Fell Among Thieves." The instrumentalists for the evening will be the 4YA Broadcasting Trio.

On Tuesday evening the St. Kilda Band will present one of their usual excellent programmes. The supporting artists will be Mrs. Stanley Foote (soprano), Mr. E. G. Bond (bass) and Mr. Carl Moller (humorous elocutionist).

ON Wednesday evening the vocalists will be the Serenaders, singing "Rose of My Heart" and "Cavatina" as quartet numbers. Soprano solos will be sung by Miss Florence Sumner and contralto solos by Miss Dorothy Allan. Mr. W. Harrison (tenor) and Mr. R. B. Macdonald will sing solos as well as a duet. There will be sketches by Miss Sheila Nelson and Mr. J. B. McConnell and instrumental music will be provided by the Kai-korai Quintet.

MISS EDITH HARRY on Friday evening will make her first appearance at 4YA. Other artists will be Miss Irene Horniblow (contralto).

Mr. Arthur Lungley (baritone) and the 4YA Broadcasting Trio.

On Saturday evening 4YA will broadcast on relay from Invercargill.

Wonders of Radio

W. T. WHALEN, general manager of the General Motors Export Division, recently sat at his desk in the General Motors Building in New York and by means of the trans-oceanic telephone talked to a convention of



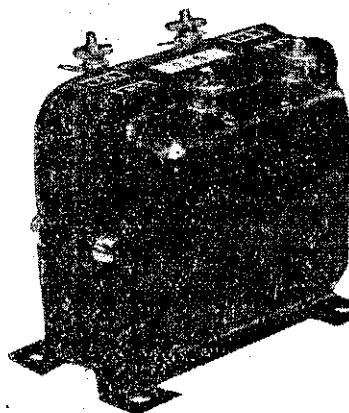
Chevrolet dealers in Stockholm, Sweden, called together by General Motors, Nordiska. A photograph of Mr. Whalen at his desk was taken while he was talking to Sweden, and this was sent by photoradio to London, and from there sent by air mail to Stockholm. Accompanying this is a print of the picture of Mr. Whalen as received by photoradio in London.

Use Our Booking Offices in Advance

S-O-S

TRAVEL IN COMFORT BY CAR

WELLINGTON — PALMERSTON
NEW PLYMOUTH



ZADEK Transformer

IT'S NEW—
LOW PRICED—

Different from any other.
Will improve any Set.

Retail Price throughout
New Zealand, both ratios, 14/6

Shielded—Compact in size—perfect amplification—equal to transformers costing twice as much. Specify ZADEK. If your dealer cannot supply, write us.

N.Z. AGENTS:—

L. B. SCOTT LIMITED., Box 335,
CHRISTCHURCH.

Full Programmes for Next

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

Sunday, May 12

1YA, AUCKLAND (333 METRES)—SUNDAY, MAY 12.

- 3.0 p.m.: Afternoon session—Selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.30: Close down.
 6.0: Children's session, conducted by Uncle Leo.
 6.55: Relay of service from St. David's Church—
 Preacher: Rev. Ivo. Bertram.
 Organist: Mr. E. C. Craston.
 8.30 (approx.): Overture—British Guards Band, "William Tell" (Rossini).
 1. At Dawn; 2. The Storm; 3. The Calm; 4. Finale.
 Soprano solos—Mrs. A. E. Schade, (a) "The Dove" (Landon Ronald);
 (b) "Ave Maria" (Schubert).
 Cello solo—W. H. Squire, "Songs My Mother Taught Me" (Dvorak)
 (Columbia Record 03611).
 Bass solos—Sergeant W. H. Hallahan, (a) "Red Devon by the Sea"
 (Coningsby Clarke); (b) "Belis of Ely" (Weatherley).
 Contralto solo—Mrs. L. Edwards, "Friend O' Mine" (Sanderson).
 Orchestral—Halle Orchestra, "Queen Mab" (Scherzo) ("Romeo and
 Juliet") (Berlioz) (Columbia Record 04027).
 Soprano solo—Mrs. A. E. Schade, "Little Brown Cottage" (Dickson).
 Bass solo—Sergeant W. H. Hallahan, "On The Road To Mandalay"
 (Speak).
 Violin solo—Joseph Szigetti, "Largo" (Corti) (Columbia Record 04129).
 Contralto solos—Mrs. L. Edwards, (a) "As You Pass By" (Russell);
 (b) "At Dawning" (Wakefield Cadman).
 March—National Military Band, "The Wooden Soldiers" (Launitta)
 (Columbia Record 3503).
 9.30 (approx.): Close down.

2YA, WELLINGTON (420 METRES), SUNDAY, MAY 12.

- 3 p.m. to 4.30: Afternoon session. Selected studio items.
 6.0: Children's session, conducted by Uncle George.
 7.0: Relay of service from St. John's Presbyterian Church. Preacher,
 Rev. J. R. Blanchard, B.A. Organist and choirmaster, Mr. C. W.
 Kerry.
 8.15 (approx.): Relay of concert from the Grand Opera House, Port Nichol-
 son Silver Band.
 Close down.

3YA, CHRISTCHURCH (306 METRES)—SUNDAY, MAY 12.

- 3.0 p.m.: Afternoon session—Selected studio items.
 4.30: Close down.
 5.30: Children's song service.
 6.15: Hymn tunes on vibraphone.
 6.30: Relay of service from Church of Christ, Moorhouse Avenue:
 Preacher: Pastor J. Crawford.
 Organist: Miss E. Hepburn.
 Choirmaster: Mr. H. Ames.
 7.45 (approx.): Gramophone-lecture-recital by Mr. Reg Lund.
 8.25: Mezzo-soprano solos—Miss Myrtle Twose, (a) "God Touched the Rose"
 (Brown); (b) Selected.
 8.32: Baritone solos—Mr. Bernard Rennell, (a) "The Blind Ploughman"
 (Coningsby Clarke); (b) "The Rosary" (Nevin).
 8.39: Instrumental trios—Christchurch Broadcasting Trio, "Trio in G Major
 —1st. Movement—Andante" (Haydn).
 8.43: Contralto solos—Mrs. McKenzie Muirson, (a) "The Rose" (Johnson);
 (b) "The River and the Sea" (Johnson).
 8.48: Tenor solos—Mr. Bradleigh Crowhurst, (a) "Serenata" (Toselli); (b)
 "My Task" (Ashford).
 8.54: Instrumental trio—Christchurch Broadcasting Trio, "Trio in G Major
 —Poco Adagio, Rondo all Ongarese" (Haydn).
 9.6: Mezzo-soprano solo—Miss Myrtle Twose, "With Verdure Clad" ("The
 Creation") (Haydn).
 9.11: Orchestral—Victor Symphony Orchestra, "Kamennoi-Ostrow" (Cloister
 Scene) (Rubinstein) (H.M.V. Record EB10).
 9.15: Baritone solo—Mr. Bernard Rennell, "Invictus" (Huhn).
 9.18: Contralto solos—Mrs. McKenzie Muirson, (a) "I Know a Lovely Gar-
 den" (D'Hardelot); (b) "Soul of Mine" (Barns).
 9.24: March—Royal Opera Orchestra, "Marche Hongroise" (Berlioz)
 (H.M.V. Record C1279).
 9.28: Tenor solo—Mr. Bradleigh Crowhurst, "A Farewell" (Liddle).
 9.32: Close down.

4YA, DUNEDIN (463 METRES)—SUNDAY, MAY 12

- 3.0 p.m.: Town Hall chimes.
 3.1: Selected studio items.
 4.30: Close down.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.30: Relay of service from Moray Place Congregational Church:
 Preacher: Rev. Albert Mead.
 8.5: Relay from St. Kilda Band Rotunda of concert by the St. Kilda Band
 under the conductorship of Mr. James Dixon.
 9.15: Close down.

Monday, May 13

1YA, AUCKLAND (333 METRES)—MONDAY, MAY 13.

SILENT DAY.

2YA, WELLINGTON (420 METRES)—MONDAY, MAY 13.

- 3 p.m. Chimes of the G.P.O. clock.
 3.1: Selected gramophone items.
 3.40: Relay from Messrs. Kirkcaldie and Stains' Tearooms of music by the
 Trio.
 4.0: Selected gramophone items.
 4.30 and 4.55: Sports results to hand.
 5.0: Children's session conducted by Uncle Jeff.
 6.0: Dinner session, featuring "L'Arlesienne Suite" (Bizet):
 Orchestral—Orchestra Symphonique de Paris, (a) "L'Arlesienne—
 Prelude," (b) "L'Arlesienne—Pastorale" (Bizet) (Columbia Re-
 cords 01324-5).
 Orchestra and chorus—"L'Arlesienne—Suivant la Pastorale" (Bizet)
 (Columbia Record 01325).
 6.12: Tacet.
 6.15: Orchestral—Orchestre Symphonique de Paris, "L'Arlesienne—La Cui-
 sine de Castelet" (Bizet) (Columbia Record 01326).
 Orchestral—"L'Arlesienne—Intermezzo" (Bizet) (Columbia Record
 01326).
 Tenor solos—Louis Graveure, (a) "Rigoletto—La Donna e Mobile"
 (Verdi), (b) "Tosca—E Lecevan le Stelle" (Puccini) (Columbia
 Record 01198).
 6.27: Tacet.
 6.30: Orchestral—Orchestre Symphonique de Paris, (a) "L'Arlesienne—
 Adagietto," (b) "L'Arlesienne—Farandole" (Bizet) (Columbia Re-
 cords 01327-8).
 Chorus and orchestra—"L'Arlesienne—Marche des Rois" (Bizet) (Co-
 lumbia Record 01328).
 6.42: Tacet.
 6.45: Orchestral—Ketelbey's Concert Orchestra, "In a Fairy Realm" (Ketel-
 bey): (1) The Moonlit Glade; (2) The Queen Fairy Dances; (3)
 The Gnomes March (Columbia Records 02694-5).
 6.57: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecture—Mr. A. J. Nicholls (representative of Hutt Valley Horti-
 cultural Society), "Gardening."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, "Iphigenia en Aulide" (Gluck).
 8.9: Soprano solo—Mrs. W. Fraser Morrish, "If My Songs Were Only
 Winged" (Hahn).
 8.13: Baritone solo—Mr. S. E. Rodger, "The Last Watch" (Pinsuti).
 8.17: Violin solos—(a) Erica Morini, "Russian Folk Song" (Kreisler)
 (H.M.V. Record ED8). (b) Yehudi Menuhin, "Allegro" (Fiocco)
 (H.M.V. Record DA1003).
 8.24: Dramatic recital—Mr. Norman Aitken, "The Face on the Bar-room
 Floor."
 8.31: Symphony—Orchestra, "Surprise Symphony" (Haydn).
 8.41: Contralto solos—Miss Nora Greene, (a) "An Old Garden" (Hope
 Temple), (b) "The Woodland Tailor" (Austin).
 8.46: Tenor solos—Mr. W. Roy Hill, (a) "Afton Water" (traditional), (b)
 "An Eriskay Love Lilt" (arr. Kennedy Fraser).
 8.53: Instrumental—Orchestra, repeat number.
 9.1: Weather report.
 9.4: Soprano solo—Mrs. W. Fraser Morrish, "The Lorely" (Liszt).
 9.8: Baritone solos—Mr. S. E. Rodger, (a) "The Link Divine" (Piccolomini),
 (b) "Mate o' Mine" (Elliott).
 9.15: Relay of organ recital by Mr. H. Temple White:
 (a) "Simple Aveu" (Thome),
 (b) "Finale in the form of an Overture" (Hollins),
 (c) Trombone solo with organ accompaniment—Soloist, Mr.
 Harold Oakes, "Softly Awakes My Heart" (Saint-Saens).

Week-all Stations-to May 19

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

- 9.30: Humour—Mr. Norman Aitken, "The Taxi-Driver's Story."
 9.37: Contralto solos—Miss Nora Greene, (a) "Sapphic Ode" (Brahms), (b) "The Forge" (Brahms).
 9.42: Song suite—Orchestra, "A Lover in Damascus" (Woodforde-Finden):
 1. Far Across the Desert Sands.
 2. Where the Abana Flows.
 3. Beloved, in your Absence.
 4. How Many a Lonely Caravan.
 5. If in the Great Bazaars.
 6. Allah be with us!
 9.56: Tenor solo (cello obbligato by Miss Lilla Hill)—Mr. W. Roy Hill, "Had You but Known" (Denza).
 10.0: Vocal duet—Miss Nora Greene and Mr. W. Roy Hill, "Venetian Song" (Tosti).
 10.3: Suite—Orchestra, "Three Dale Dances" (Wood).
 10.10: Close down.

3YA, CHRISTCHURCH (306 METRES)—MONDAY, MAY 13.

- 3 p.m.: Afternoon session—Selected studio items.
 4.25: Sports results.
 4.30: Close down.
 6.0: Children's session conducted by "Scatterjoy."
 7.0: News session.
 7.30: Talk—Mr. E. J. Bell, Book Review.
 8.0: Chimes.
 Programme by the Christchurch Municipal Band under the conductorship of Mr. W. McDowell, and assisting artists.
 8.1: March—Band, "Brilliant" (Ord Hume).
 8.6: Mezzo-soprano solos—Mrs. Bessie Stewart, (a) "Morning" (Speaks), (b) "In a Garden" (Hawley).
 8.12: Trombone novelty—Band, "Sliding Jim" (Losey).
 8.17: Baritone solo—Mr. W. B. Brittenden, "The Riderless Steed" (Russell).
 8.21: Chorus—Light Opera Company, Gems from "Princess Flaria" (Smith) (H.M.V. Record EB22).
 8.25: Instrumental—Christchurch Broadcasting Trio, (a) "Slumber Song" (Percy Godfrey), (b) "Liebeslied" (Cadman), (c) "Vivace in F" (Godard).
 8.35: Contralto solo—Madame Eva Litchfield, "The Golden Days" (Sullivan).
 8.39: Orchestral—Marek Weber's Orchestra, "Potpourri of Waltzes" (Robert) (H.M.V. Record C1544).
 8.47: Humorous recital—Mr. Ronald Foster, "Listening In" (Rutherford).
 8.52: Selection—Band, "Knight Errant" (Trussell).
 9.1: Weather report.
 9.6: Mezzo-soprano solo—Mrs. Bessie Stewart, "Coming Home" (Willeby).
 9.10: Chorus—Light Opera Company, Gems from "Countess Maritza" (Smith-Kalman) (H.M.V. Record EB11).
 9.14: Instrumental—Christchurch Broadcasting Trio, (a) "Moderato, Larghetto con Moto, and Finale" from "Noveletten" (Gade).
 9.24: Baritone solos—Mr. W. B. Brittenden, (a) "Do You Not Know?" (d'Auvergne Barnard), (b) "Anchored" (Adams).
 9.30: Selection—Band, "Rose Marie" (arr. Hume).
 9.38: Humorous recital—Mr. Ronald Foster, "The Egg" (MS.).
 9.43: Orchestral—New Light Symphony Orchestra, (a) "Spring Song" (Mendelssohn), (b) "Narcissus" (Nevin) (Zonophone EE111).
 9.49: Contralto solos—Madame Eva Litchfield, (a) "Summer Rain" (Willeby), (b) "Snowflakes" (Coven).
 9.55: Foxtrot—Band, "That's Her Now" (Ager).
 March—Band, "Victoria" (Lithgow).
 10.5: Close down.

4YA, DUNEDIN (463 METRES)—MONDAY, MAY 13.

- 3 p.m.: Town Hall chimes.
 3.1: Selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Town Hall chimes.
 6.1: Children's session conducted by Big Brother Bill.
 7.0: News session.
 7.30: Lecturette by Rev. H. E. Bellhouse (under the auspices of the League of Nations Union)—"The League of Nations and Its International Aspect."
 8.0: Town Hall chimes.
 8.1: Overture—Columbia Symphony Orchestra, "Maritana" (Wallace) (Columbia Record O2682).
 8.9: Baritone solo—Mr. F. M. Tuohy, "To the Forest" (Tschalkowsky).
 8.13: Instrumental trio—4YA Broadcasting Trio, "Entr'acte Waltz" (Hellsnes-burger).
 8.18: Mezzo-soprano solos—Miss Mollie Andrews, (a) "The Linden Tree" (Schubert), (b) "Hedge Roses" (Schubert).

- 8.24: Flute quartet—London Flute Quartet, "Carnival of Venice" (arr. Stainer) (Columbia Record 4155).
 8.27: Recital—Miss Joyce Hould, "The Rider at the Gate" (Masefield).
 8.33: Cello solo—Mr. P. J. Palmer, "Salut d'Amour" (Elgar).
 8.37: Tenor solo—Mr. H. A. Johnston, "Pipes of Pan" (Elgar).
 8.41: Baritone solo and chorus—Riccardo Stracciari, "Ernani—O Sommo Carlo" (Verdi) (Columbia Record O4177).
 Chorus and orchestra—La Sala Chorus, "Soldiers' Chorus" ("Faust"—Gounod) (Columbia Record O1032).
 8.48: Violin solo—Miss Eva Judd, "Liebeslied" (Wagner).
 8.55: Soprano solos—Miss Mae Matheson, (a) "Now Sleeps the Crimson Petal" (Quilter), (b) "Had You but Known" (Denza).
 9.2: Weather report and announcements.
 9.4: Recital—Miss Joyce Hould, "He Fell Among Thieves" (Bewbolt).
 9.10: Pianoforte solo—Mrs. Ernest Drake, selected.
 9.14: Mezzo-soprano solo—Barbara Maurel, "Indian Dawn" (Zamecnik) (Columbia Record O1250).
 9.17: Instrumental trio—4YA Broadcasting Trio, "Pierette" (Chaminade).
 9.23: Presentation of the comedy opera "Rose Marie" (Friml) by the 4YA Harmonists under the direction of Mr. T. J. Kirk-Burnnand:
 "Mounties"—Mr. F. M. Tuohy and chorus.
 "Rose Marie"—Mr. H. A. Johnston.
 Entr'acte—Symphony Orchestra, "Love, the Magician" (De Falla) (H.M.V. Record D1453).
 "Indian Love Call"—Miss Mae Matheson.
 "Pretty Things"—Miss Mollie Andrews and chorus.
 Entr'acte—Victor Salon Orchestra, "Indian Love Call" (Friml) (H.M.V. Record EA186).
 "Totem Tom Tom"—Miss Mollie Andrews and chorus.
 "Dawn of My Dreams"—Miss Mae Matheson.
 Finale—Ensemble.
 9.53: Orchestral—Columbia Symphony Orchestra, "Al Fresco" (Herbert) (Columbia Record O1092).
 9.56: Waltz—Eddie Thomas' Collegians, "Moments with You" (Yellen) (Columbia Record O1135).
 10.0: Close down.

Tuesday, May 14

1YA, AUCKLAND (333 METRES)—TUESDAY, MAY 14.

- 3 p.m.: Afternoon session—Selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.



Radiotrons

We have pleasure in advising that the shortage of these justly popular valves has now been overcome.

Ample Supplies of all Types are now Available



RCA RADIOTRON

MADE BY THE MAKERS OF THE RADIOLA

Amalgamated Wireless

(Australasia) Ltd.

BOX 830

WELLINGTON

- 4.25: Sports results.
 4.30: Close down.
 6.0: Children's session, conducted by Uncle George.
 7.0: Talk—Mr. George Campbell, "Motoring."
 7.10: News and market reports.
 7.45: Book review.
 8.0: Chimes.
 8.1: Relay of orchestral overture from Majestic Theatre.
 8.11: Vocal quartet—Clarion Quartet, "Brightly Dawns Our Wedding Day" ("The Mikado") (Sullivan).
 8.15: Violin solo—Fritz Kreisler, "Deep In My Heart, Dear" (Romberg) (H.M.V. Record DA785).
 8.19: Contralto solo—Miss Beryl Smith, "Che Faro" ("Orfeo ed Euridice") (Gluck).
 8.25: Instrumental—Studio Trio, "Three Songs from 'Eliland'" (Fielitz).
 8.33: Bass solo—Mr. Duncan Black, "In Happy Moments" ("Maritana") (Wallace).
 8.37: Wurlitzer organ solo—Reginald Foort, "Ballet Egyptian" (Luigini) (H.M.V. Record B2477).
 8.45: Dramatic recital—Mr. Allan McSkimming, "Cato on 'Immortality'" (Addison).
 8.50: Vocal duet—Miss A. McGruer and Mr. J. Simpson, "Home to Our Mountains" ("Il Trovatore") (Verdi).
 8.54: Relay of orchestral entr'acte from Majestic Theatre.
 9.4: Weather report.
 9.7: Pianoforte solo—Mr. Eric Waters, "Spanish Caprice" (Moszkowski).
 9.12: Tenor solo—Mr. James Simpson, "A Sprig of Rosemary" (German).
 9.16: Wurlitzer organ solo—Reginald Foort, "Ballet Egyptian" (Luigini) (H.M.V. Record B2479).
 9.22: Vocal duet—Miss A. McGruer and Miss B. Smith, "Flower Duet" ("Madame Butterfly") (Puccini).
 9.26: Instrumental—Studio Trio, "The Rebel Maid" Selection (Phillips).
 9.33: Humour—Mr. A. McSkimming, (a) monologue, selected; (b) humorous short stories.
 9.43: Waltz—Marek Weber's Orchestra, "Moonlight on the Alster" (Fetras) (H.M.V. Record C1407).
 Wurlitzer organ solo—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey) (H.M.V. Record C1459).
 9.49: Soprano solo—Miss A. McGruer, "Musetta's Song" ("La Boheme") (Puccini).
 9.53: Waltzes—Jack Hylton's Orchestra, (a) "Spanish Rose" (Pearson); (b) "The Angelus Was Ringing" (Damarell) (H.M.V. Record B5481).
 9.59: Vocal quartet—Clarion Quartet, "The Angelus" ("Maritana") (Wallace).
 10.3: Close down.

2YA, WELLINGTON (420 METRES).—TUESDAY, MAY 14.

- 3 p.m.: Chimes of the G.P.O. clock.
 3.1: Selected gramophone items.
 4.30 and 4.55: Sports results to hand.
 5.0: Children's session, conducted by Uncle Jim.
 6.0: Dinner session:
 Overture—Columbia Symphony Orchestra, "March of the Toys" (Herbert) (Columbia Record 02651).
 Male quartet—Shannon Male Quartet, "The Sidewalks of New York" (Lawlor) (Regal Record G20298).
 Waltz—Eddie Thomas's Collegians, "Beautiful Ohio" (Earl) (Columbia Record 02651).
 6.12: Tacet.
 6.15: Waltzes—Eddie Thomas's Collegians, (a) "Moments with You" (Yellen) (Columbia Record 01135); (b) "Moonlight on the Danube" (Gay).
 Tenor solo—Alfred O'Shea, "Ben Bolt" (Kneass) (Columbia Record 03613).
 6.25: Tacet.
 6.30: Waltz—New Concert Orchestra, "Jolly Fellows" (Bruder) (Columbia Record 02672).
 Mezzo-soprano solo, Barbara Maurel, "Indian Dawn" (Zamecnik) (Columbia Record 01250).
 Saxophone solo—Rudy Wiedoeft, "Serenade" (Drigo) (Columbia Record 01180).
 Vocal solo—Vaughan de Leath, "I Just Roll Along" (Trent) (Columbia Record 01136).
 6.42: Tacet.
 6.45: Kinema organ solo—G. T. Pattman, "Cherie Waltz" (Valentine) (Columbia Record 01344).
 Solo—Virginia Perry, "Coo" ("The Country Girl") (Monckton) (Columbia Record 1172).
 Orchestral—Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (Columbia Record 02577).
 6.55: Tacet.
 7.0: News session, market reports, and sports results.
 7.40: Lecturette—Representative, Agricultural Department, "For the man on the land."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, "Pique Dame" (Suppe).
 8.10: Tenor solo—Mr. G. Austin Blackie, "Mary" (Richardson) (by request).
 8.13: Clarinet solo—Mr. A. H. F. Wright, "Romanzen No. 1" (Schumann).
 8.17: Humour—Mr. Henry Desmond, "Joe's Bassoon" (Arphorpe).
 8.24: Suite—Orchestra, "Old Favourites" (arrgd. Seredy).
 8.34: Popular song—Mrs. Mabel Jackson, "Old Man Sunshine" (Warren).

- 8.38: Hawaiian—Honolulu Serenaders, (a) "Honolulu Stomp" (Pilipo); (b) "Mele of Hawaii" (Pilipo) (Zonophone Record EE92).
 8.44: Tenor solos—Mr. G. Austin Blackie, (a) "Joy and Pleasure" (McGeogh); (b) "Love, I Have Won Thee" (Landon Ronald).
 8.51: Instrumental—Orchestra, repeat number.
 8.59: Weather report.
 9.0: Instrumental—Orchestra, (a) Xylophone solo with orchestral accompaniment, "Dance of the Toy Regiment" (Shilkret); (b) violin solo with orchestra accompaniment, "Minuet" (Boockerini); (c) cornet solo with orchestral accompaniment, "Bessies o' the Barn" (Clement).
 9.9: Humour—Mr. Henry Desmond, "Without Prejudice" (Searson).
 9.15: Popular songs—Mrs. Mabel Jackson, (a) "Then Came the Dawn" (Warren); (b) "That Saxophone Waltz" (Sisk).
 9.21: Dance suite—Orchestra, "Three Dances from Tom Jones" (German): 1. Morris Dance. 2. Gavotte. 3. Jig.
 9.30: "Columbia" dance programme: Foxtrot with vocal chorus—Debroy Somers's Band, "The Toy-town Artillery" (Frederick) (Columbia 01306).
 Waltz—Eddie Thomas's Collegians, "Till We Meet Again" (Whiting) (Columbia 02553).
 Foxtrot—Paul Whiteman's Orchestra, "C.O.N.S.T.A.N.T.I.N.O.P.L.E." (Carlton) (Columbia 07002).
 9.42: Soprano and male quartet—Norah Blaney and Ramblers, "Sweet Suzanne" (Leslie) (Columbia 01170).
 Selection—Debroy Somers's Band, "Good News" (de Sylva) (Columbia 01720).
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "Last Night I Dreamed you Kissed Me" (Kahn) (Columbia 07002).
 9.56: Tenor solo—Alfred O'Shea, "Just a Little Love, a Little Kiss" (Ross) (Columbia 03589).
 Instrumental—Paul Whiteman's Orchestra, "Jeannine, I Dream of Lilac Time" (Gilbert) (Columbia 07505).
 Waltz—Rio Marimba Orchestra, "Dolores Waltz" (Waldteufel) (Regal G20344).
 Novelty foxtrot—Debroy Somers's Band, "Rag Doll" (Brown) (Columbia 01341).
 10.10: Monologue—Milton Hayes—"Meanderings of Monty—Is Lipstick Nourishing?" (Hayes) (Columbia 01293).
 Foxtrot—Stellar Dance Band, "Just Imagine" (de Sylva) (Regal G20338).
 Foxtrot—Denza Dance Band, "Varsity Drag" (de Sylva) (Columbia 01151).
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "Get Out and Get Under the Moon" (Shay) (Columbia 07001).
 10.24: Tenor solo—Alfred O'Shea, "Then You'll Remember Me" (Balfe) (Columbia 03613).
 Wurlitzer organ solo—Milton Charles, "Cheerie-Beerie-Be" (Wayne) (Columbia 0914).
 Waltz—Ben Selvin's Orchestra, "Ramona" (Wayne) (Columbia 01137).
 Foxtrot with vocal chorus—South Sea Islanders, "Hanalei Bay" (Alohi-kea) (Columbia 0737).
 10.38: Novelty—Flotsam and Jetsam, "The Business Man's Love Song" (Hilham) (Columbia 0995).
 Vocal duet—Gus Van and Joe Schenck, "Skadat-in-Dee" (Tobias) (Regal G20336).
 Foxtrot—Paul Whiteman's Orchestra, "Evening Star" (Turk) (Columbia 07001).
 Waltz—Eddie Thomas's Collegians, "The Missouri Waltz" (Logan) (Columbia 02553).
 Foxtrot—Ben Selvin's Orchestra, "In My Bouquet of Memories" (Akst) (Columbia 01137).
 10.55: Whispering solo—Jack Lumsdaine, "Like a Bird that's on the Wing" (Tobias) (Columbia 01185).
 Foxtrot—Stellar Dance Band, "Dream House" (Cowan) (Regal 20338).
 11.2: Close down.

3YA, CHRISTCHURCH (306 METRES).—TUESDAY, MAY 14.

SILENT DAY.

4YA, DUNEDIN (463 METRES).—TUESDAY MAY 14, 1929.

- 3 p.m.: Town Hall chimes.
 3.1: Relay of instrumental music from the Ritz.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Children's session, conducted by Big Brother Bill.
 7.0: News session.
 7.30: Lecturette—Mr. Lloyd Ross, M.A. (under the auspices of the Workers' Educational Association), final of series of talks on "The Drama."
 8.0: Town Hall chimes.
 Concert by the St. Kilda Band, under the conductorship of Mr. James Dixon and assisting artists.
 8.1: March—Band, "Wheel of Fortune" (Moss).
 8.6: Chorus and orchestra—La Scala Chorus, "Otello—Fuoco di Gioia" (Verdi) (Columbia 02723).
 8.10: Bass solo—Mr. E. G. Bond, "Invictus" (Huhn).
 8.14: Waltz—Band, "Mon Tresor" (Pecorini).

- 8.22: Humour—Mr. Carl Moller, "Bertram on 'Babies'" (Anon).
 8.28: Mezzo-soprano solo—Barbara Maurel, "In the Heart of the Hills" (Lee and Kerr) (Columbia Record 01252).
 8.31: Part song—Band, "Comrades in Arms" (Adam).
 8.41: Soprano solo—Mrs. Stanley Foote, "Morning" (Speaks).
 8.45: Tenor solo—Chas. Hackett, "The World is Waiting for the Sunrise" (Lockhart) (Columbia 01396).
 8.48: March—Band, "Victory" (Jones).
 8.53: Chorus—Chauve Souris Company, "Round the Hay Wain" (Russian songs) (Columbia Record 02525).
 8.57: Weather report.
 9.2: Two-step, band, "Jolly Times" (Gilbourne).
 9.11: Bass solos—Mr. E. G. Bond, (a) "The Merry Monk" (Beran); (b) "Glorious Devon" (German).
 9.18: Male choir—Sheffield Orpheus Male Choir, "The Lincolnshire Poacher" (trdrl.) (Columbia Record 01175).
 9.22: Selection—Band, "Lasses and Lads" (Truman).
 9.32: Recitals—Mr. Carl Moller, (a) "You Know What I Mean" (Hayes); (b) "If" (for motorists) (Anon).
 9.40: Selection—Band, "Pilgrims' Chorus" ("Tannhauser") (Wagner).
 9.47: Tenor solo—Hubert Eisdell, "Parted" (Tosti) (Columbia Record 02598).
 9.51: Soprano solos—Mrs. Stanley Foote, (a) "Break o' Day" (Sanderson); (b) "The Birth of Morn" (Leon).
 9.57: March—Band, "Renown" (Farrell).
 10.1: Close down.

Wednesday, May 15

1YA, AUCKLAND (333 METRES)—WEDNESDAY, MAY, 15.

- 8 p.m.: Afternoon session—Selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Children's session, conducted by Uncle Tom.
 7.0: News session.
 7.45: Talk—Mr. Norman Kerr, "Physical Culture."
 8.0: Chimes.
 8.1: Overture—Orchestra, "Chal Romano" (Gipsy Lad) (Ketelbey).
 8.9: Vocal duet—Madame Mary Towsey's Quartet, "An Old Love Song" (Mendelssohn).
 8.18: Baritone solo—Mr. Reg. Richards, "The Wanderer" (Schubert).
 8.17: Band—Black Diamonds, (a) "The Gipsy Dance" (George); (b) "The Last Goodbye" (Moretti) (H.M.V. Record 5153).
 8.23: Contralto solo—Miss Edna Peace, "Like to the Damask Rose" (Elgar).
 8.27: Vocal duet—Madame Mary Towsey and Mr. Richards, "In the Garden of Your Heart" (Ball).
 8.31: 'Cello solo with orchestral accompaniment (soloist, Miss M. Wright), "Pilgrims' Chorus and Song to the Evening Star" (Wagner).
 8.37: Tenor solo—Mr. John McDougall, "Who is Sylvia" (Schubert).
 8.41: Humour—Mr. T. T. Garland, "Topicalities."
 8.47: Soprano solos—Madame Mary Towsey, (a) "I Love Thee" (Grieg); (b) "The Princess."
 8.52: Military band—National Military Band, "Christchurch Chimes" (arrgd. Hare) (Zonophone 5119).
 8.55: Baritone solo—Mr. R. Richards, "Nelson's Gone A'Sailing" (Lohr).
 9.0: Weather report.
 9.3: Novelty—Orchestra, "Lightning Switch" (Alford).
 9.13: Novelty—The Asquiths, "Thirty Minutes Drawingroom Entertainment."
 9.42: Soprano solo—Mrs. Percy Thode, "Ave Maria" (Verdi).
 9.47: Cornet solo with orchestral accompaniment, (soloist, Mr. Phil Mohr), "The Hills of Donegal" (Sanderson).
 9.52: Humour—Mr. T. T. Garland, More Mirth.
 9.56: Tenor solo—Mr. J. McDougall, "The Gentle Maiden" (arrgd. Somerville).
 10.1: Vocal quartet—Madame Mary Towsey's Quartet, "Off in the Stilly Night" (arrgd. Vincent).
 10.4: Instrumental—Orchestra, (a) "Valse Bleu" (Margis); (b) "Majestic March" (Jacobs).
 10.10: Close down.

2YA, WELLINGTON (420 METRES)—WEDNESDAY, May 15.

SILENT DAY.

3YA, CHRISTCHURCH (306 METRES)—WEDNESDAY, MAY 15.

- 8 p.m.: Afternoon session—Selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Children's session conducted by "Mother Hubbard" and "Uncle Frank."
 7.0: News session.
 8.0: Chimes.
 Presentation of the opera "Rigoletto" (fourth instalment) (libretto by Mr. W. H. Dixon, Professor of Singing) (H.M.V. Records D1493-7).

Synopsis: The scene of the plot is the Court of the Duke of Mantua, a Don Juan against whose attentions no woman is safe. He is indebted for help in his schemes to his jester, Rigoletto. The courtiers have much reason to hate both Duke and Jester, and plan revenge on Rigoletto. The courtiers, resorting to a ruse by which they secure the help of Rigoletto, he not realising that his own daughter is the victim, abduct Gilda and carry her off to the palace. Rigoletto rushes to the palace. His daughter is with the Duke. In distress he attempts to get into the room. The courtiers, who hate him and do not altogether understand what is happening, prevent his doing so. At last the daughter, released, dashes out. Rigoletto swears vengeance on the Duke.

The last act of the opera will be presented this evening. The scene is a house in a by-street. Rigoletto engages Sparafucile, an assassin, to kill the first person who comes, whoever this may be. He entices the Duke to the house, using Sparafucile's sister, Maddelena, as the attraction. Gilda hears, and, though wronged by the Duke, makes up her mind to give her life to save him. Putting herself in the Duke's place, she causes Sparafucile to stab her. Rigoletto enters to receive the Duke's body in a sack. To his astonishment and horror he hears the Duke singing in the room above. He opens the sack, and finds—his daughter!

Instrumental quintet—Bohemian Quintet, "Blue Danube Waltz" (Strauss).

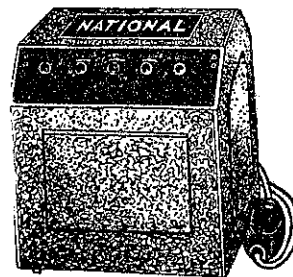
- 9.0: Weather report.
 9.5: Banjo selections—Christchurch United Banjo Band under the conductorship of Mr. Louis W. Bloy, (a) March, "Let 'er Go" (MS.), (b) "Irish Melodies" (arr. Bloy), (c) "Plantation Medley" (arr. Bloy), (d) "Tickling the Banjo" (Morris, arr. Bloy).
 9.25: Tenor solo, followed by tenor and contralto duet—Mr. T. G. Rogers and Dulcet Duo, (a) "Myfanwy" (Davies), (b) "Oh Lovely Night" (Landon Ronald).
 9.33: Instrumental—Bohemian Quintet, (a) "Intermezzo" (Cyril Scott), (b) "Passaglia" (Cyril Scott), (c) "Gavotte" (Bach).
 9.41: Contralto solos—Miss Nellie Lowe, (a) "O Salutaris" (W. J. Bellingham), (b) "The Hills of Donegal" (Reilly) (with instrumental accompaniment by the Bohemian Quintet).
 9.49: Tenor solo—Mr. T. G. Rogers, "If You Were Here" (Squire).
 9.53: Instrumental—Bohemian Quintet, "Three Dances" from "Faust" (Gounod).
 10.0: Close down.

4YA, DUNEDIN (463 METRES)—WEDNESDAY, May 15.

- 3 to 5 p.m.: Relay of Official Opening of May Fair, Invercargill by Joseph Ward.
 6.0: Children's session, conducted by Big Brother Bill.
 7.0: News session.
 8.0: Town Hall chimes.
 8.1: Overture—Royal Albert Hall Orchestra, "Pomp and Circumstance" (in D) (Elgar) (H.M.V. Record D1102).
 8.5: Vocal quartet—Serenaders, "Rose of my Heart" (Lohr).
 8.9: Cornet solo—Mr. T. J. Kirk-Burnnand, "Zelda" (Hume).
 8.16: Baritone solo—Mr. R. B. Macdonald, "Song of the Rover" (Georges).
 8.20: Sketch—Miss Sheila Neilson and Mr. J. B. McConnell.

Radio Reliability

is ASSURED with the . . .



New

**NATIONAL VELVET
"B" ELIMINATOR**

No. 3580

Smooth, Rugged, Fool-Proof

Output is 35 M.A. at 180 volts using full wave rectification. Will operate up to Six-Valve Sets, including 171 power valve. All tappings except 180 volts adjustable. A "B" Eliminator that eliminates trouble as well as batteries.

RETAIL 29/15/- each.

BOND & BOND Ltd. DISTRIBUTORS

of "NATIONAL" Radio Products (including the heavy duty type "B" Eliminator No. 7180, output 70 M.A. RETAIL £12/10/-)

- 8.32: Brass quintet—Kaikorai Brass Quintet, "The Reaper" (Round).
 8.38: Tenor solos—Mr. W. Harrison, (a) "Mellisande in the Wood" (Goetz);
 (b) "I Be Hopin' You Remember" (Coningsby Clarke).
 8.44: Flugel horn solo—Mr. G. Lowry, "Il Lombardi" (Verdi).
 8.49: Contralto solos—Miss Dorothy Allan, (a) "O Golden Cloud" (Freeby);
 (b) "I Heard You Singing" (Coates).
 8.55: Orchestral—New Light Symphony Orchestra, "The Dancing Doll" (Polidini) (H.M.V. Record B2629).
 8.58: Weather report.
 9.1: Vocal duet—Messrs. Harrison and MacDonald, "Sincerity" (Coningsby Clarke).
 9.5: Tenor horn solo—Mr. D. Scott, "Theme and Variations on a Traditional Air" (M.S.).
 9.12: Soprano solos—Miss Florence Sumner, (a) "Star of the South" (Lohr);
 (b) "Almond Blossoms" (Arundale).
 9.19: Sketch—Miss Sheila Neilson and Mr. J. B. McConnell.
 9.31: Instrumental quintet—Kaikorai Brass Quintet, "At Eventide" (Wright).
 9.35: Vocal quartet—Serenaders, "Cavatina" (Raff).
 9.39: "His Master's Voice" Dance Programme:
 Overture—H.M. Coldstream Guards, "Der Freischutz" (Weber) (H.M.V. C1335).
 Foxtrot—Paul Whiteman's Orchestra, "My Pet" (Yellen) (H.M.V. EA373).
 Foxtrot—Ted Weem's Orchestra, "Baby Doll" (Herscher) (H.M.V. EA433).
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "I'm Afraid of You" (Davis) (H.M.V. EA373).
 9.52: Entertainer—Will Gardner, "That's Another One Gone" (Darewski) (Zonophone 5079).
 Vocal duet—Miller and Farrell, "The Grass Grows Greener" (Yellen) (Zonophone EE100).
 Foxtrot—Ted Weem's Orchestra, "If You Want the Rainbow" (Rose) (H.M.V. EA433).
 8.28: Soprano solo—Miss Florence Sumner, "I Dream of a Garden of Sunshine" (Lohr).
 Foxtrot—Rhythmic Eight, "You Don't Like It, Not Much" (Miller) (Zonophone EE96).
 Waltz—Pennsylvania Orchestra, "Was It a Dream?" (Yellen) (H.M.V. EA385).
 10.9: Tenor solo—Browning Mummery, "Had You But Known" (Denza) (H.M.V. B2756).
 Hawaiian selection—Honolulu Seneraders, "Honolulu Stomp" (Pilipo) (Zonophone EE92).
 Foxtrot—Nat Shikret's Orchestra, "Dainty Miss" (Barnes) (H.M.V. EA276).
 Hawaiian—Hilo Hawaiian Orchestra, "Hawaiian Dreams" (Marple) (Zonophone EE56).
 10.23: Male voices—Revellers, "Was it a Dream?" (Coslow) (H.M.V. EA402).
 Bass-baritone solo—Peter Dawson, "The Admiral's Yarn" (Rubens) (H.M.V. B2661).
 Wurlitzer organ solo—Jesse Crawford, "Rosette" (Newman) (H.M.V. EA405).
 Foxtrot—Pennsylvanian Orchestra, "The Grass Grows Greener" (Yellen) (H.M.V. EA335).
 Hawaiian—Hilo Hawaiian Orchestra, "Song of Hawaii" (Bories) (H.M.V. EA376).
 10.37: Male quartet—Rounders, "Chloe-e" (Kahn) (H.M.V. EA402).
 Foxtrot—Victor Orchestra, "What Do We Do on a Dew-Dew-Dew Day" (Johnson) (H.M.V. EA244).
 Foxtrot—Victor Orchestra, "The Doll Dance" (Brown) (H.M.V. EA181).
 Waltz—Bert Firman's Dance Orchestra, "Sunset Down in Somerset" (Evans) (Zonophone EE96).
 10.49: Tenor solo—Joseph Hislop, "Mary" (Richardson) (H.M.V. DA901).
 Hawaiian—Hilo Hawaiian Orchestra, "Honolulu Moon" (Lawrence) (Zonophone EE56).
 Foxtrot—Victor Orchestra, "Flapperette" (Greer) (H.M.V. EA181).
 Foxtrot—Hamp's Kentucky Serenaders, "Is It Possible?" (Dixon) (H.M.V. EA244).
 11.3: Close down.

Thursday, May 16

1YA, AUCKLAND (333 METRES)—THURSDAY, MAY 16.

- 3.0 p.m.: Afternoon session—programme presented by Messrs. Lewis Eady Ltd. (Accompaniment to songs and instrumental music will be rendered on the Williams Pla-ola).
 March—"Hilo" (Pele).
 Selected gramophone number.
 Song—Miss Alice Taylor, "Two Eastern Songs" (Lang).
 Selected gramophone number.
 Instrumental—"Salute d'Amour" (Elgar).
 Song—Mr. D. Turner, "Chalita" (Schertzinger).
 Instrumental—"Serenade D'Arlequin" (Drigo).
 Selected gramophone number.
 Instrumental—"Coppelia Ballet" (Delibes).
 Song—Miss A. Taylor, "Here's To Love" (Rubens).

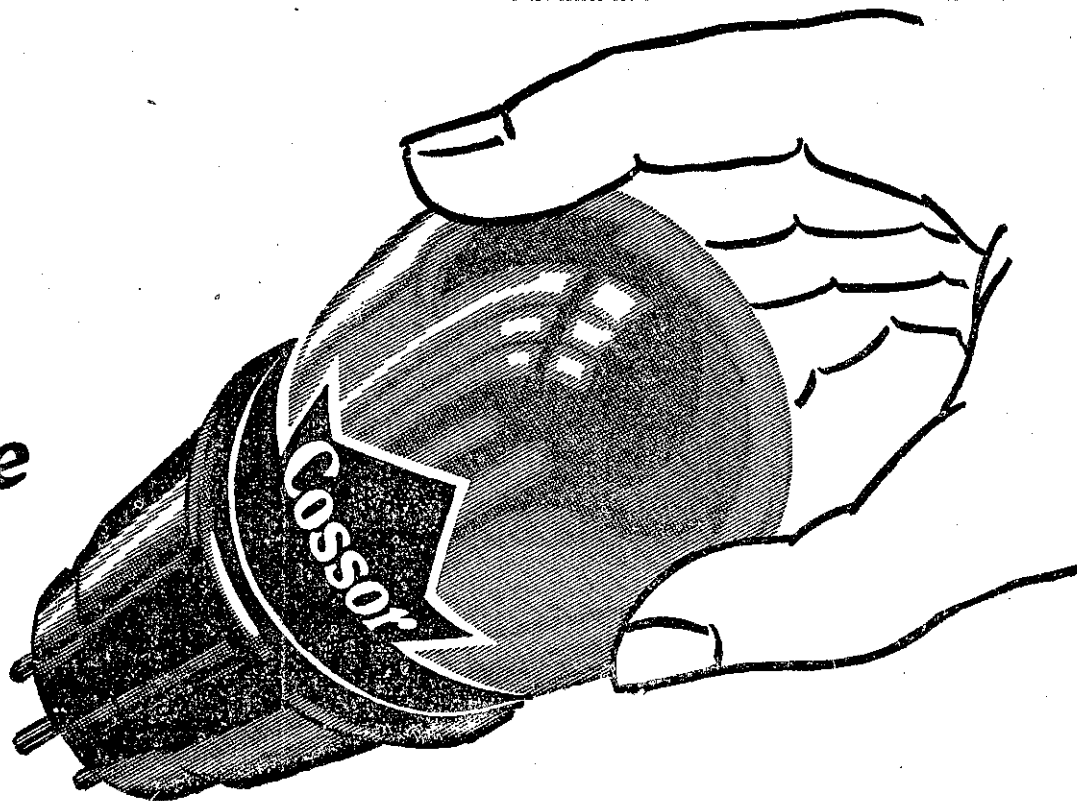
- Selected gramophone number.
 Instrumental—"Ballad In A Flat" (Chopin).
 4.0: Selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Children's session conducted by Peter Pan.
 7.0: News session.
 7.30: Market reports.
 8.0: Programme presented by the Auckland Radio Society.
 8.1: Instrumental—Mr. H. Josephs' pupils, "Hawaiian Melodies."
 Saxophone solo—Mr. Gordon Camp, "Chant Du Rassignil."
 Humour—Mr. D. McKivett, "The Egg."
 Banjo solo—Mr. A. J. Foster, "Bonnie Scotland" (Kennedy).
 Dramatic recital—Miss Leila Armitage, "The Speech of Joan of Arc before her Execution."
 Baritone solo—Mr. F. Barnes, "The Lost Chord" (Sullivan).
 Cornet solo—Mr. Reg. Davies, "My Dreams" (Tosti).
 Address—Mr. G. T. Jones, vice-president of the Auckland Radio Society—"The Objects of the Auckland Radio Society."
 Instrumental—Mr. H. Josephs' pupils, "Hawaiian Melodies."
 Humorous sketch—Misses Doris Messer and Gladys Grayson, "Two O'Clock Tea."
 Saxophone solo—Mr. G. Camp, "Valse Vanice" (Wiedoeft).
 Humour—Mr. D. McKivett, "Because I Was a Boy."
 Banjo solo—Mr. A. J. Foster, "Darkies' Jubilee" (Turner).
 Dramatic recital—Miss Madge Horn, "Cardinal Wolsey Meditates at Hampton Court."
 Cornet solo—Mr. R. Davies, "The Answer" (Wolstenholme).
 10.0 (approx.): "His Master's Voice" dance programme:
 Orchestral—Symphony Orchestra, (a) "Love, the Magician"; (b) "Spanish Dance" (De Falla) (H.M.V. Record D1453).
 Male quartet—Revellers, "Oh, Lucindy!" (Hollingsworth), (H.M.V. Record EA430).
 Foxtrot—International Orchestra, "Shine On, Harvest Moon" (Norworth) (H.M.V. Record EA407).
 Waltz—Troubadours, "Some Day—Somewhere" (Pollock), (H.M.V. Record EA421).
 10.17: Male quartet—National Cavaliers, "Beautifull" (Gillespie), (H.M.V. Record EA430).
 Foxtrot—Hamp's Kentucky Serenaders, "Blue Grass" (de Sylva) (H.M.V. Record EA407).
 Foxtrot—Geo. Olsen's music, "Who?" (Harbach) (H.M.V. Record EA79).
 Waltz—Troubadours, "Neapolitan Nights" (Kerr) (H.M.V. Record EA421).
 10.30: Tenor solo—John McCormack, "The Far Away Bells" (Gordon) (H.M.V. Record DA914).
 Waltz—Hilo Orchestra, "Lou'siana Lullaby" (Zoeller), (H.M.V. Record EA374).
 Hawaiian—Hilo Hawaiian Orchestra, "Hawaiian Nights" (Roberts) (H.M.V. Record EA310).
 Foxtrot—Hilo Orchestra, "My Bird of Paradise" (Berlin), (H.M.V. Record EA374).
 Violin and kinema organ—Elsie Southgate, "I Hear You Calling Me" (Marshall) (Zonophone 5109).
 Foxtrot—Statler's Pennsylvanians, "Happy-Go-Lucky Lane" (Lewis) (H.M.V. EA353).
 Foxtrot—Geo. Olsen's music, "Sunny" (Harbach) (H.M.V. Record EA79).
 10.53: Vocal with guitar—Harry McClintock, "The Big Rock Candy Mountains" (McClintock) (Zonophone EE125).
 Foxtrot—Reser's Banjo Boys, "Down South" (Myddleton), (H.M.V. Record EA353).
 11.0: Close down.

2YA, WELLINGTON (420 METRES)—THURSDAY, MAY 16.

- 3.0 p.m.: Chimes of the G.P.O. clock.
 3.1: Selected gramophone items.
 4.30 and 4.55: Sports results to hand.
 5.0: Children's session conducted by Uncle George.
 6.0: Dinner session:
 Overture—Band of H.M. Grenadier Guards, "Poet and Peasant" (Suppe) (Columbia Record 9087).
 Soprano solo—Marie Kurenko, "Gounod's Serenade" (Gounod), (Columbia Record 04137).
 6.13: Tacet.
 6.15: Saxophone solo—Rudy Wiedoeft, "Sax-o-Phun" (Wiedoeft), (Columbia Record 4097).
 Mezzo-soprano solo—Barbara Maurel, "Hindoo Slumber Song" (Ware) (Columbia Record 01252).
 Waltz—Jacque Jacobs' Ensemble, "Over the Waves" (Rosas), (Columbia Record 02556).
 6.25: Tacet.
 6.30: Band—H.M. Grenadier Guards, "Nell Gwynne Dances" (German), 1. Country Dance; 2. Pastoral Dance; 3. Merrymakers' Dance (Columbia Records 01329-30).
 Tenor solo—Alfred O'Shea, "Love, Here Is My Heart" (Ross) (Columbia Record 03589).
 6.42: Tacet.

Always

use



Cossor

Britain's Finest VALVE

GET the best out of your Radio Set—
use Cossor Valves. Cossor Valves
will give you greater volume and sweeter
tone. Cossor Valves improve ANY
Receiver. They are made with English

or U.X. Bases for 2, 4 or 6-volt Batteries
or for Mains operation. There are 24
different types of Cossor Valves—types
to suit every Radio Set. Use them in
yours—every Radio Dealer sells them.

YOUR DEALER SELLS

Cossor

Agents for Australia and New Zealand:

LYALL, WILLIS & CO. LTD.
BILLITER HOUSE, LONDON (Eng.).

New Zealand Distributors:—

G. HOWES & CO.,
259 CUMBERLAND ST., DUNEDIN.

North Island Distributors:—

RADIO, LIMITED,
COMMERCE BUILDING,
ANZAC AVENUE - AUCKLAND.

VALVES

- 6.45: 'Cello solos—Gaspar Cassado, (a) "Melodie Arabe" (Glazounov); (b) "Le Cygne" (Saint-Saens) (Columbia Record 03579).
Bass solo—Malcolm MacEachern, "Sittin' Thinkin'" (Tempest) (Columbia Record 01174).
Band—Royal Italian Band, "Garibaldi's Hymn" (Ollivieri), (Columbia Record 01182).
- 7.0: News session, market reports and sports results.
- 7.34: Lecturette—Mr. W. J. Fergie (Publicity Branch of N.Z. Railways)—"Excursions by Rail."
- 7.40: Lecturette—Miss Margaret O'Connor, "Dancing."
- 8.0: Chimes of the G.P.O. clock.
Studio concert by the Wellington City Silver Band, under the conductorship of Mr. H. Baker, and assisting artists.
- 8.1: March—Band, "Silverwood" (Arrgd. Hawkins).
Overture—Band, "Light Cavalry" (Arrgd. Hartman).
- 8.13: Tone poem—Mellow Fellows, "It Goes Like This" (MS).
- 8.17: Bass solo, The Busy Little Fellow, "From Oberon in Fairyland" (Slater).
- 8.21: Trombone solo—"Lend Me Your Aid" (Gounod).
Waltz—Band, "Moonlight" (Pecorini).
- 8.32: Humour—Mr. T. J. O'Connor, "A Railway Mix-up" (Original).
- 8.39: Vocal duet—Two of the Fellows, "Rose Time" (Hall).
- 8.43: Mezzo-soprano solos Mrs. E. Ransom Myers, (a) "Summer Rain" (Willeby); (b) "De Hoot Owl" (Nevin).
- 8.49: Selection—Band, "The Pirates of Penzance" (Sullivan).
- 9.1: Weather report.
- 9.3: A small ditty—The Other Fellow, "The Song Is Ended" (Berlin).
- 9.7: Vocal duet—Winnie Melville and Derek Oldham, "The Chocolate Soldier" (Strauss) (H.M.V. Record C1502).
- 9.11: Humour—Mr. T. J. O'Connor, (a) "How We Saved the Barge" (Hilliard); (b) "The Lie"—"The Truth" (original).
- 9.18: March—Band, "On the Quarter Deck" (Alford).
Meditation—Band, "Sanctuary of the Heart" (Ketelbey).
- 9.29: Bass solo—Bass Fellow, "King Charles" (White).
- 9.33: Mezzo-soprano solo, Mrs. E. Ransom Myers, (a) "Thoughts" (Fisher); (b) "Family Traits" (Pease).
- 9.39: Fantasia—Band, "Favourite Melodies" (Raymond).
- 9.47: Idle Words—The Single Fellow, "A Shady Tree" (Donaldson).
- 9.51: Some talk—One of the Fellows, "Monty Addresses the Board of Directors" (Hayes).
- 9.57: Harmony—Mellow Fellows, "Blue Ridge Mountain Home" (Robinson).
- 10.1: March—Band, "Little Drummer" (Dowell).
- 10.5: Close down.

3YA, CHRISTCHURCH (306 METRES)—THURSDAY, MAY 16.

- 3 p.m.: Afternoon session—Selected studio items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 6.0: Children's session conducted by "Uncle John."
- 7.0: News session.
- 7.30: Dr. F. W. Hilgendorf, "Wheat Growing."
- 8.0: Chimes.
- 8.1: Orchestral—Philadelphia Symphony Orchestra, (a) "Danse Orientale" (Glazounov); (b) "March of the Caucasian Chief" (Iwanoff) (H.M.V. Record E521).
- 8.7: Tenor solo—Mr. Harold Prescott, "Once Again" (Sullivan).
- 8.11: Mezzo-soprano solo—Miss L. Merle Miller, "Musetta's Song" ("La Boheme"—Puccini).
- 8.15: Pianoforte solo—Mr. Sydney Francis Hoben, (a) "Dance Negre" (Cyril Scott); (b) "On Wings of Song" (Mendelssohn); (c) "Polonaise in B" (Paderewski).
- 8.27: Soprano solo—Miss Eileen Grennell, "Waltz Song" ("Tom Jones") (German).
- 8.31: Baritone and male quartet—John Goss and Cathedral Male Choir, "Shenandoah" (arr. Terry) (H.M.V. Record B2646).
- 8.34: Instrumental trio—Christchurch Broadcasting Trio, "Allegro Appassionata" (Lalo).
- 8.42: Baritone solo—Mr. F. R. Penfold, "I Would I Were a King" (Sullivan).
- 8.46: Orchestral—Berlin State Opera Orchestra, "Symphony No. 39 in E Flat" (Mozart) (Third Movement—Menuett, Allegretto) (H.M.V. Record D1450).
- 8.50: Recital—Miss Lily Hughes, "The Song of England" (MS.).
- 8.54: Mezzo-soprano and tenor duet—Miss L. Merle Miller and Mr. Harold Prescott, "O Night of Love" ("Faust"—Gounod).
- 8.58: Weather report.
- 9.3: Orchestral and pianoforte—Alfred de Greef and Albert Hall Orchestra, "Hungarian Fantasia" (Liszt) (H.M.V. Records D1306-7).
- 9.19: Tenor solo—Mr. Harold Prescott, "A Song of Thanksgiving" (Allitsen).
- 9.23: 'Cello soli—Mr. Harold Beck, (a) "Hamadill" (Bantock); (b) "Minuet" (Gluck).
- 9.30: Mezzo-soprano solos—Miss L. Merle Miller, (a) "At Night" (Rachmaninoff); (b) "After a Dream" (Faure).
- 9.34: Instrumental trios—Christchurch Broadcasting Trio, (a) "Berceuse" (Illynski); (b) "Impression" from "Rubaiyat" (Gustave Robert); (c) "Alla Passepiet" (Beckett Williams).
- 9.42: Soprano solos—Miss Eileen Grennell, (a) "Dream Boat" (Novello); (b) "Daffodil-Time" (Gritton).
- 9.48: Orchestral—New Light Symphony Orchestra, "Scene de Ballet Marionettes" (Glazounov) (H.M.V. Record B2754).
- 9.52: Baritone solo—Mr. F. C. Penfold, "To-morrow" (Keel).

- 9.56: Recitation—Miss Lily Hughes, Portia's Speech in Court Scene of "Merchant of Venice" (Shakespeare—Oxford).
- 10.0: Mezzo-soprano, tenor and baritone trio—Miss Merle Miller, Messrs. Harold Prescott and F. Penfold, "Prison Trio" ("Faust"—Gounod).
- 10.4: Close down.

4YA, DUNEDIN (463 METRES)—THURSDAY, MAY 16.

- 3 p.m.: Relay of Invercargill.
- 10.0: Close down.

Friday, May 17

1YA, AUCKLAND (333 METRES)—FRIDAY, MAY 17.

- 3 p.m.: Afternoon session—Selected studio items.
- 4.0: Literary selection by the Announcer.
- 4.8: Studio items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 6.0: Children's session, conducted by Nod.
- 7.0: News session.
- 7.30: Market reports.
- 8.0: Chimes.
- 8.1: Overture—Berlin Philharmonic Orchestra, "Carnival Romain" (Berlioz) (H.M.V. Record D1365).
- 8.9: Vocal octette—Madame Humphrey Steward Octette, "My Soul" (Bond).
- 8.13: Contralto solo—Miss Doris Moore, "Castilian Lament" (Del Reigo).
- 8.17: Instrumental trios—Studio Trio, (a) "Oh! Quand je Dors" (Liszt); (b) "Scherzo," from "Octette" (Schubert).
- 8.26: Soprano solo—Miss Ida Holmes, "Il Bacio" (Arditi).
- 8.30: Organ and vocal—Mr. Arthur E. Wilson and Mr. Clinton Williams, (a) "Swan Song" (Blumenthal); (b) "Caprice" (Bottisey); (c) vocal solo, selected; (d) "Minuet in G" (Beethoven).
- 8.50: Mezzo-soprano solo—Mrs. A. Wallis, "Under the Deodar" ("Country Girl") (Monckton).
- 8.54: Orchestral—Philadelphia Symphony Orchestra, (a) "Danse Orientale" (Glazounov); (b) "March of the Caucasian Chief" (Iwanoff) (H.M.V. Record E521).
- 9.0: Baritone solo—Mr. Hartley Warburton, "Credo" ("Otello") (Verdi).
- 9.4: Weather report.
- 9.7: Violin solo—Miss Ina Bosworth, "Minuet" (Porpora).
- 9.11: Contralto solo—Miss Greta Monroe, "Three Fishers" (Hullah).
- 9.15: Organ and vocal—Mr. Arthur E. Wilson and Mr. Clinton Williams, (a) "Gavotte and Musette" (Thome); (b) baritone solo, selected; (c) "Pastorale," "To a Wild Rose" (MacDowell); (d) "Maestoso" (MacDowell).
- 9.35: Mezzo-soprano solo—Miss Edith Smith, "Coo" ("The Country Girl") (Monckton).
- 9.39: Harp solo—Miss Mavis Grevatt, "Believe Me If All Those Endearing Young Charms" (Moore).
- 9.43: Baritone solos—Mr. Hartley Warburton, (a) "A Warwickshire Wooing" (James); (b) "Spring Dreams" (Schubert).
- 9.50: Soprano solo—Madame Humphrey Steward, "Ave Maria" (Gounod).
- 9.54: Instrumental trios—Studio Trio, (a) "Evening Song" (Schumann); (b) "Scherzo," from "Trio, Op. 50" (Reissiger).
- 10.3: Mezzo-soprano solo—Mrs. Dorothy Kay, "Flower Song" ("Faust") (Gounod).
- 10.7: Chorus—Victor Orchestra, "Anvil Chorus" ("Il Trovatore") (Verdi) (H.M.V. Record EAS9).
- 10.10: Close down.

2YA, WELLINGTON (420 METRES)—FRIDAY, MAY 17.

- 3 p.m.: Chimes of the G.P.O. clock.
- 3.1: Selected gramophone items.
- 3.40: Relay from Messrs. Kirkcaldie and Stains of music by the Trio.
- 4.0: Studio items.
- 4.30 and 4.55: Sports results to hand.
- 5.0: Children's session, conducted by Big Brother Jack.
- 6.0: Dinner session.
- Orchestral—New Queen's Hall Orchestra, "Peer Gynt Suite" (Grieg): (1) Morning; (2) Death of Ase (Columbia Record L1516).
- Soprano solo—Marie Kurenko, "Villanelle" (I've Seen the Swallows Pass) (Dell'Acqua) (Columbia Record 04137).
- 6.13: Tacet.
- 6.15: Violin solos—Sascha Jacobsen, (a) "Pale Moon" (Logan); (b) "To a Wild Rose" (MacDowell) (Columbia Record 01146).
- Trio and chorus—Stracciari, Appoloni and Ticozzi, "Toreador's Song" ("Carmen") (Bizet) (Columbia Record 04173).
- 6.25: Tacet.
- 6.30: Orchestral—Court Symphony Orchestra, "The Gondoliers" (Sullivan) (Columbia Record 979).
- Solo and chorus—Virginia Perry, "The Merry Widow—Villa" (Lehar) (Columbia Record 01173).
- 6.41: Tacet.
- 6.45: Orchestral—Columbia Symphony Orchestra, (a) "Al Fresco" (Herbert); (b) "Bandinag" (Herbert) (Columbia Record 01092).
- Soprano and male quartet—Norah Blaney and Ramblers, "Just Like Darby and Joan" (Leslie) (Columbia Record 01170).

Waltz—Jacque Jacobs' Ensemble, "Espana Waltz" (Strauss) (Columbia Record 01560).

- 6.58: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. D. McKenzie, "The Laws of Rugby."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, "Bohemian Girl" (Balfe).
 8.9: Soprano solo—Miss Eileen North, "One Fine Day" ("Madame Butterfly") (Puccini).
 8.13: Pianoforte solos—Mr. Kenneth W. Morrison, (a) "Prelude" (Chopin); (b) "Nocturne" (Chopin).
 8.20: Baritone solo—Mr. Eric Harrison, "Land of Mine" ("Lady of the Rose") (Gilbert).
 8.24: Humour—Mr. and Mrs. Albert Russell, (a) "Bertram at the Bachelors' Club" (Rutherford); (b) "Lucky in Love" (de Sylva).
 8.31: Selection—Orchestra, "Beggars' Opera" (Gay).
 8.41: Contralto solo—Mrs. Mary Porteous, "Sapee Vorreste" ("Un Ballo in Maschera") (Verdi).
 8.45: Chorus—Light Opera Company, Gems from "The Bohemian Girl" (Balfe) (H.M.V. Record EB9).
 8.53: Tenor solo—Mr. Chas. Edwards, "On With the Motley" (Leoncavallo) ("I Pagliacci").
 8.57: Instrumental—Orchestra, repeat number.
 9.5: Weather report.
 9.7: Soprano solos—Miss Eileen North, (a) "Come to the Ball" ("Quaker Girl") (Monckton); (b) "Bubble Song" ("High Jinks" (Caryll).
 9.14: Novelty—Orchestra, "Master Melodies from Famous Light Operas" (Review 1) (Roberts).
 9.24: Baritone solo—Mr. Eric Harrison, "Vision Song" ("Lilac Time") (Schubert-Clutsum).
 9.28: Solo and chorus—Zonophone Light Opera Company, Gems from "H.M.S. Pinafore" (Sullivan) (Zonophone A317).
 9.36: Humour—Mr. and Mrs. Albert Russell, (a) "Oh, Pola Nicoli" (Rickaby); (b) "Afternoon Calls" (Grey).
 9.43: Contralto solo—Mrs. Mary Porteous, "When the Dream is There" (D'Hardelet).
 9.47: Tenor solo—Mr. Chas. Edwards, "On the Road to Mandalay" (Speaks).
 9.51: Instrumental—Orchestra, "Dance Suite" (arrgd. Hildreth Wood): (1) Danse Bretagne; (2) Japanese Dance.
 10.0: Close down.

3YA, CHRISTCHURCH (306 metres)—FRIDAY, MAY 17.

- 3 p.m.: Afternoon session—Selected studio items.
 4.25: Sports results.
 4.30: Close down.
 6.0: Children's session, conducted by "Storyman."
 7.0: News session.
 7.30: Lecturette—Mr. J. McLean (Christchurch Pigeon, Poultry, Canary and Cat Club), "Fancy Pigeons."
 8.0: Chimes.
 8.1: Overture—San Francisco Symphony Orchestra, "Valse de Concert" (Glazounov) (H.M.V. Record O1492).
 8.9: Male quartet—Beckenham Male Quartet, "Where My Caravan Has Rested" (Lohr).
 8.13: Violin solo—Miss Irene Morris, "Cradle Song" (Cui).
 8.17: Bass solo—Mr. F. S. Jackson, "Molly O'Donegal" (Austin).
 8.21: Dance music—Bailey-Marston Dance Orchestra, (a) "Russian Rhapsody" (arrgd. Russbaum Koeman); (b) "Is There Anything Wrong in That?" (Cleary).
 8.29: Humorous quartet—Beckenham Male Quartet, "'Cause I've Nothing Else To Do" (Parks).
 8.33: Chorus—Light Opera Company, Gems from "Sunny" (Kern) (H.M.V. Record C1293).
 8.37: Instrumental trio—Christchurch Broadcasting Trio, "Allegro and Finale" ("Trio No. 1") (Bohm).
 8.43: Recital and medley, Mr. Albert Bland Holt, junior, (a) "My Son" (Harris); (b) "Mixed and Muddled" (MS.).
 8.48: Dance music—Bailey-Marston Dance Orchestra, (a) "Who Wouldn't be Jealous of You?" (Frommell); (b) "Where is the Song of Songs for Me?" (Berlin).
 8.56: Humorous vocal trio—Messrs. Jackson, Pitman and Archer, "Tall Wife, Short Wife" (Hook).
 9.0: Weather report.
 9.5: Instrumental—Christchurch Broadcasting Trio, (a) "Slave Song" (Leonard Butler); (b) "The Wood Nymph" (Lind); (c) "Gayotte" (Gautier).
 9.12: Male voice quartets—Beckenham Male Quartet, (a) "Lullaby" (Brahms); (b) "Every Rustling Tree" (Kuhlau).
 9.16: Violin solo—Miss Irene Morris, "Londonderry Air" (arrgd. O'Connor Morris).
 9.20: Dance music—Bailey-Marston Dance Orchestra, (a) "Ma Belle Rosa" (Magine); (b) "Happy Days and Lonely Nights" (Fisher).
 9.28: Humorous song—Mr. W. H. Odell, "I Do Like to Sing in My Bath" (Bennett).
 9.32: Tenor and baritone duet—Messrs. E. R. Pitman and K. G. Archer, "Two Friends" (Black).
 9.36: Dance music—Bailey-Marston Dance Orchestra, (a) "Chalita" (Schert-zinger); (b) "Thirsty for Kisses" (Coots).
 9.44: Coster recital—Mr. Albert Bland Holt, jun., "Jim" (MS.).

- 9.49: Humorous quartet—Beckenham Male Quartet, "Tom, Tom, the Piper's Son" (Kendall).
 9.53: Dance music—Bailey-Marston Dance Orchestra, (a) "Weary River" (Silvers); (b) "San" (McPhail).
 10.1: Dance music by the Bailey-Marston Dance Orchestra.
 11.0: Close down.

4YA, DUNEDIN (463 METRES)—FRIDAY, MAY 17.

- 3 p.m.: Town Hall chimes.
 3.1: Gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Children's session, conducted by Aunt Sheila and Big Brother Bill.
 7.0: News session.
 7.30: Lecturette—Mr. H. Greenwood, "Book Review."
 8.0: Town Hall chimes.
 8.1: Overture—Berlin State Opera Orchestra, "Symphony No. 39 in E Flat" (Mozart) (1st. Movement—Adagio, Allegro) (H.M.V. Record D1448).
 8.9: Baritone solos—Mr. Arthur Lungley, (a) "Sleep and the Roses" (Tate); (b) "The Marriage Trainer" (Keilam).
 8.17: Instrumental—4YA Broadcasting Trio, "Serenade" (Drdla).
 8.23: Vocal duet—Florence Austral and Browning Mummery, "Miserere" (Verdi) (H.M.V. Record D1802).
 8.27: Waltz—San Francisco Symphony Orchestra, "Valse de Concert" (Glazounov) (H.M.V. Record D1492).
 8.35: Recital by Miss Edith Harry (pianist-singer-composer):
 Pianoforte: "Waltz in C Sharp Minor" (Chopin, "Polonaise in A." (Chopin).
 Songs: "The Young Rose" (Harry), "Colette" (Harry), "A Toast to Scotia" (Harry).
 8.47: Violin solo—Miss Eva Judd, "Forch Dance" (German).
 8.52: Contralto solos—Miss Irene Horniblow, (a) "Stars of Earth" (Raff); (b) "Summer Rain" (Willoughby).
 9.0: Weather report.
 9.2: Orchestra—Philadelphia Symphony Orchestra, "Hungarian Rhapsody No. 2" (Liszt) (H.M.V. Record D1296).
 9.10: Tenor solo—Joseph Hislop, "My Love is Like a Red, Red Rose" (traditional) (H.M.V. Record DA901).
 9.14: Cello solo—Mr. P. J. Palmer, "Melodie Arabe" (Glazounov).
 9.19: Recital—Miss Edith Harry:
 Pianoforte: "Nocturne in E Minor" (Chopin), "Waltz in E Minor" (Chopin).
 Songs: "Golden Wattle" (Harry), "Mary Magdalene" (Harry), "Roses for the King" (Harry).
 9.31: Orchestra—Philadelphia Symphony Orchestra, (a) "Danse Orientale" (Glazounov); (b) "March of the Caucasian Chief" (Iwanoff) (H.M.V. Record E521).
 9.37: Baritone solo—Mr. Arthur Lungley, "In an Old-Fashioned Town" (Squire).
 9.41: Instrumental—4YA Broadcasting Trio, selected.
 9.46: Contralto solo—Miss Irene Horniblow, "Page's Road Song" (Enoch).
 9.50: Baritone and male quartet—Jno. Goss and Cathedral Male Quartet—(a) "Shenandoah"; (b) "Rio Grande"; (c) "Billy Boy" (arrgd. Terry) (H.M.V. Record B2646).
 9.55: Orchestra—Berlin State Opera Orchestra, "Symphony No. 39 in E Flat" (Mozart) (3rd and 4th Movements—Menuett—Allegretto, and Finale—Allegro) (H.M.V. Record D1450).
 10.4: Close down.

Saturday, May 18

1YA, AUCKLAND (333 METRES)—SATURDAY, MAY 18.

- 3 p.m.: Relay description of Rugby football match from Eden Park.
 4.30: Close down.
 6.0: Children's session, conducted by Cinderella.
 7.0: News session and market reports—book review.
 8.0: Chimes.
 8.1: Overture—Orchestra, (a) "Middy March" (Alford); (b) "Invitation to the Waltz" (Weber).
 8.11: Novelty—Bohemian Duo, (a) "A Little Town Called Home, Sweet Home" (Ager); (b) "Kingdon Coming" (Ruben).
 8.19: Instrumental—Ingall's Hawaiian Orchestra, "Aloha Sunset Land" (Kaweno); (b) "Three o'clock in the Morning" (Robledo).
 8.27: Male quartet—Revellers, "O, Lucindy" (Hollingsworth).
 Tenor solo—Joseph Hislop, "My Love is Like a Red, Red Rose" (tradl) (H.M.V. Record DA901).
 8.33: Humour—Mr. Dan Flood, Moments of Mirth.
 8.39: Instrumental—Orchestra, (a) "Humoresque" (Dvorak); (b) "Triana" (Spanish March) (Lope).
 8.48: Baritone solo—Mr. Fred. Baker, "Drake Goes West" (Sanderson), (with orchestral accompaniment).
 8.52: Instrumental—Ingall's Orchestra, (a) "Dreamy Hawaii" (Hampton); (b) "Hawaiian Rainbow" (M.S.).
 9.0: Weather report.
 9.3: Vocal novelty—Bohemian Duo, (a) "Girl of My Dreams" (Rodgers); (b) "O Dem Golden Slippers" (Wright).
 9.11: Dance suite—Orchestra, "Three Spanish Dances" (Moszkowski): 1. A minor. 2. G Minor. 3. A Major.

- 9.20: Humour—Mr. Dan Flood, More Moments of Mirth.
 9.26: Instrumental—Ingall's Hawaiian Orchestra (a) "Coral Sands of My Hawaii" (Heagney); (b) "Invercargill March" (Lithgow).
 9.34: Vocal duet—Winnie Melville and Derek Oldham, "Sympathy" (Strauss) (H.M.V. Record O1502).
 9.38: Cornet solo with orchestral accompaniment (soloist, Mr. Phil. Mohr), "Absent" (Metcalfe).
 9.42: Chorus—Revellers, gems from "Tip Toes" (Gershwin) (H.M.V. Record O1293).
 9.46: Baritone solos—Mr. F. Baker, (a) "Young Tom o' Devon" (Kennedy Russell); (b) "Tommy Lad" (Margerson).
 9.53: Musical comedy selection—Orchestra, "Fancy Free" (Barratt).
 10.0: "His Master's Voice" dance programme:
 Foxtrot—Jack Hylton's Orchestra, "Swords and Sabres" (Bennett) (H.M.V. B5160).
 Foxtrot—Rhythmic Eight, "Possibly" (Gibbons) (Zonophone EE97).
 Wurlitzer organ solo—Jesse Crawford, "Jeannine, I Dream of Lilac Time" (Gilbert) (H.M.V. EA425).
 10.9: Baritone solo—Peter Dawson, "Believe Me If All Those Endearing Young Charms" (Moore) (H.M.V. DA886).
 Wurlitzer organ solo—Jesse Crawford, "Ten Little Miles from Town" (Kahn) (H.M.V. EA426).
 Foxtrot—Jack Hylton's Orchestra, "Palace of Dreams" (Waller) (H.M.V. B5159).
 Foxtrot—Jack Hylton's Orchestra, "Babying You" (Ruby) (H.M.V. B5160).
 Waltz with male quartet—Troubadours, "Beggars of Life" (Brennan) (H.M.V. EA441).
 10.24: Tenor solo—John McCormack, "Mother Machree" (Ball) (H.M.V. DA958).
 Tango Argentino—International Novelty Orchestra, "El Choele" (Villoldo) (H.M.V. EA364).
 Waltz—Troubadours, "Cielito Lindo" (Beautiful Heaven) (H.M.V. EA349).
 Foxtrot with vocal refrain—Kahn's Orchestra, "In a Bamboo Garden" (Donaldson) (H.M.V. EA435).
 10.36: Scottish comedian—Harry Lauder, "The Pirate" (Lauder) (H.M.V. D1434).
 Chorus with orchestra—Light Opera Company, "Hit the Deck" vocal gems (Youmans) (H.M.V. O1433).
 Foxtrot—Jack Hylton's Orchestra, "Don't Forget" (Hancley) (H.M.V. B5159).
 Foxtrot with vocal refrain—Rhythmic Eight, "There's a Ricketty Rackety Shack" (Tobias) (Zonophone EE97).
 Hawaiian—Ferreira and Paaluhl, "Kilima Waltz" (tradit.) (H.M.V. B2369).
 Marimba orchestra—"When It's Love Time in Hawaii" (Heagney) (Zonophone 3852).
 Foxtrot—Paul Whiteman's Orchestra, "O, Ya, Ya" (Klages) (H.M.V. EA340).
 Foxtrot—Nat Shilkret's Orchestra, "Sometimes I'm Happy" (Youmans) (H.M.V. EA253).
 Close down.

2YA, WELLINGTON (420 METRES)—SATURDAY, MAY 18.

- 3 p.m.: Chimes of the G.P.O. clock.
 3.1: Relay description of Football Match from Athletic Park.
 5.0: Children's session conducted by Uncle Toby.
 6.0: Dinner session:
 Waltz—Royal Philharmonic Orchestra, "Blue Danube" (Strauss) (Columbia Record O4169).
 Soprano and male quartet—Norah Blaney and Ramblers, "Sweet Suzanne" (Leslie) (Columbia Record O1170).
 5.12: Tacet.
 5.15: Foxtrot—Ben Selvin's Orchestra, "In My Bouquet of Memories" (Akst) (Columbia Record O1137).
 Whispering solo—Jack Lumsdaine, "Jack and Jill" (Sanella) (Columbia Record O1186).
 6.24: Tacet.
 6.30: Hawaiian—Guitar, Banjo, and Ukulele Trio, "My Hawaii" (Lewis) (Columbia Record 3606).
 Hawaiian—South Sea Islanders, "The Call of Aloha" (Hyatt) (Columbia Record O1014).
 Tenor solo—James Melton, "When Love Comes Stealing" (Pollack) (Columbia Record O1215).
 Novelty foxtrot—Debroy Somers' Band, "Laughing Marionette" (Collins) (Columbia Record O1341).
 6.42: Tacet.
 6.45: Orchestral—Ketelbey's Concert Orchestra, "Sanctuary of the Heart" (Ketelbey) (Columbia Record O2690).
 Tenor solo—Alfred O'Shea, "Macushla" (Rowe) (Columbia Record O3586).
 6.56: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. A. B. Wilson (Government Tourist Department), "Tourist and Holiday Resorts."
 8.0: Chimes of the G.P.O. clock.
 Special programme by "The Strollers" Concert Party.
 8.1: Overture—Orchestra, (a) March, "Ole South" (Zamecnik), (b) Waltz, "Dreams of the South" (Ascher-Mahl).

- 8.9: "The Strollers" will entertain:
 Tenor solo—"Sweet Miss Mary" (Neidlinger).
 Soubrette—"Knitting" (Reubens).
 Sketch—"The Parting" (Peach).
 Baritone solo—"Good Fellows" (Ingall Phillips).
 Humour—"A Chinese Love Tale" (Kirby).
 8.29: Instrumental—Orchestra, (a) "Aubade Printinaire" (Lacombe), (b) "In a Clock Store" (Orth).
 8.34: Further items by "The Strollers":
 Some irresponsible humour.
 Soprano solo—"The Amorous Goldfish" (Jones).
 Humorous duet—"Bridget O'Flynn" (King).
 Accordion and banjo—P. Frosini, "Silver Moon" (Frosini) (Zonophone Record EE129).
 Tenor solo—"Macushla" (MacMurrrough).
 Baritone solo—"Wildflower" (Youmans).
 8.58: Selection—Orchestra, "Rose Marie" (Friml).
 9.6: Weather report.
 9.10: Male quartet—National Cavaliers, "The Song I Love" (de Sylva) (H.M.V. Record EA474).
 Hawaiian—Ferreira and Paaluhl, "Kilima Waltz" (traditional) (H.M.V. Record B2369).
 Humour—Leslie Sarony, "Don't Be Cruel to a Vegetabuel" (Sarony) (H.M.V. Record B2714).
 9.20: Novelty—Orchestra, "Virginia" (Haydn Wood).
 9.30: "The Strollers" will again entertain:
 Soubrette—"Looking for a Boy" (Gershwin).
 Vocal duet—"Deep in My Heart" (Friml).
 Saxophone duet—Wiedoeft and Brilhart, "The Swallow" (Zonophone Record EE129).
 Patter sketch.
 Soprano solo—"Love's Own Kiss" (Friml).
 Humour—"Sing a Song of Sixpence" (Rose).
 9.55: Instrumental—Orchestra, Dance Novelties.
 10.0: "His Master's Voice" Dance Programme:
 Band—American Legion Band, "March Salutation" (Seitz) (Zonophone Record EE74).
 Foxtrot with vocal chorus—Nat Shilkret's Orchestra, "Lonesome in the Moonlight" (Russell) (H.M.V. Record EA431).
 Foxtrot—Nat Shilkret's Orchestra, "Fascinating Vamp" (Nussbaum) (H.M.V. Record EA367).
 Foxtrot—Nat Shilkret's Orchestra, "What's the Reason?" (Atteridge) (H.M.V. Record EA378).
 10.13: Tenor solo—Maurice Gunsky, "Lay My Head Beneath a Rose" (Falkenstein) (Zonophone Record EE17).
 Foxtrot—Coon Sanders' Orchestra, "Ready for the River" (Kahn) (H.M.V. Record EA378).
 Foxtrot—Paul Whiteman's Orchestra, "It Was the Dawn of Love" (Davis) (H.M.V. Record EA381).
 Waltz—Rhythmic Eight, "Neapolitan Nights" (Zamecnik) (Zonophone Record EE106).
 Waltz with vocal refrain—Goodrich Silvertown Quartet, "The Church Bells are Ringing for Mary" (Colby) (H.M.V. Record EA381).
 10.27: Comedian—Frank Crumit, "The Song of the Prune" (Crumit) (H.M.V. Record EA366).
 Kinema organ solo—Charles W. Saxby, "For My Baby" (Kahal) (Zonophone Record 5143).
 Foxtrot—Arcadians' Dance Orchestra, "Singapore Sorrows" (Le Soir) (Zonophone Record EE106).
 Waltz—Victor Arden and Phil Ohman's Orchestra, "Chiquita" (Wayne) (H.M.V. Record EA396).
 10.40: Tenor solo—Franklyn Baur, "Beloved" (Kahn) (H.M.V. Record EA392).
 Foxtrot—Paul Whiteman's Orchestra, "Louisiana" (Razaf) (H.M.V. Record EA386).
 Male trio—California Humming Birds, "I Just Roll Along" (Trent) (H.M.V. Record EA356).
 Foxtrot—Paul Whiteman's Orchestra, "Dixie Dawn" (Trent) (H.M.V. EA386).
 Male trio—California Humming Birds, "She's a Great, Great Girl" (Woods) (H.M.V. Record EA356).
 Waltz—Rhythmic Eight, "Momsy" (Yellen) (Zonophone Record EE104).
 11.0: Close down.

3YA, CHRISTCHURCH (306 METRES)—SATURDAY, MAY 18.

- 3 p.m.: Afternoon session—Selected studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 6.0: Children's session, conducted by Aunt Pat.
 7.15: News session.
 7.30: Sports results to hand.
 8.0: Chimes.
 8.1: Relay of May Fair Entertainment from Invercargill via Dunedin.
 9.0: Weather report.
 9.5: Continuation of rebroadcast of 2YA.
 10.0: "His Master's Voice" Dance Programme.
 11.0: Close down.

4YA, DUNEDIN (463 METRES)—SATURDAY, MAY 18.

- 2.45 p.m.: Relay of Senior Rugby Football Match from Carisbrook Grounds.
 5.0: Close down.

- 6.0: Town Hall chimes.
 6.1: Children's session conducted by Uncle Bill.
 7.15: News session.
 8.0: Town Hall Chimes.
 8.1: Relay from Invercargill.
 10.0: Programme of dance music.
 11.0: Close down.

Sunday, May 19

1YA, AUCKLAND (333 METRES)—SUNDAY, MAY 19.

- 3.0 p.m.: Afternoon session—selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.30: Close down.
 6.0: Children's session conducted by Uncle Leo.
 6.55: Relay of service from West Street Church of Christ:
 Preacher: Pastor Campbell.
 8.30: (approx.): Studio concert.
 Orchestral—London Symphony Orchestra, "Symphony in D Allegro Molto" (Beethoven) (Columbia Record L1867).
 Baritone solo—Mr. Eric Mannell, "The Living God" (O'Hara).
 Instrumental trio—Cherniavsky Trio, "Spring Song" (Mendelssohn) (Columbia Record 6837).
 Soprano solo—Miss Cecilia Duncan, "O Divine Redeemer" (Gounod).
 Vocal duet—Messrs. Roy Dormer and Eric Mannell, "Crucifix" (Faure).
 Vocal quintette—Dora Labette, Harold Williams, Hubert Eisdell, Dennis Noble and Robert Easton, "By The Wayside" ("The Apostles") (Elgar) (Columbia Record 02593).
 Tenor solo—Mr. Roy Dormer, "How Many Hired Servants" ("The Prodigal Song") (Sullivan).
 Pianoforte solo—Ignaz Friedman, "Prelude in D Flat" (Chopin) (Columbia Record L1804).
 Baritone solo—Mr. Eric Mannell, "Thank God for a Garden" (Del Riego).
 Soprano solos—Miss Cecilia Duncan, (a) "The Lament of Isis" (Bantock); (b) "My Ain Folk" (Lemon).
 Cello solo—Gaspar Cassado, "Danzas Espanolas" (No. 5), (Granados), (Columbia Record 04075).
 Vocal duet—Messrs. Roy Dormer and Eric Mannell, "Farewell To Summer" (Johnson) (Gould).
 Orchestral—Plaza Theatre Orchestra, "Tarantella" ("Gipsy Suite") (German) (Columbia Record 02538).
 Baritone solo—Mr. Roy Dormer, "A Dream of Paradise" (Gray).
 Band—H.M. Grenadier Guards, "Dawn of Freedom" (Columbia Record 4029).
 Close down.

2YA, WELLINGTON (420 METRES)—SUNDAY, MAY 19

- 3.0 p.m.: Afternoon session—selected studio items.
 4.30: Close down.
 6.0: Children's session conducted by Uncle George.
 7.0: Relay of service from Taranaki Street Methodist Church:—
 Preacher: Rev. T. R. Richards.
 Organist and choirmaster: Mr. H. Temple White.
 8.15 (approx.): Relay from His Majesty's Theatre of recital by the Wellington Municipal Tramways Band, under the conductorship of Mr. T. Goodall.
 Close down.

3YA, CHRISTCHURCH (306 METRES)—SUNDAY, MAY 19.

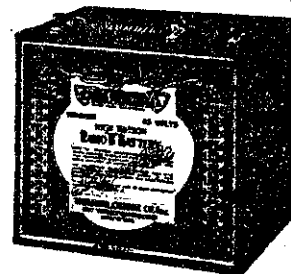
- 3 p.m.: Afternoon session—Selected studio items.
 4.30: Close down.

- 5.30: Children's song service, conducted by Miss H. Park.
 3.15: Hymn tunes.
 6.30: Gramophone recital.
 7.0: Relay of service from Christchurch Anglican Cathedral. Preacher, His Grace Archbishop Julius. Organist and choirmaster, Dr. J. C. Bradshaw.
 8.15 (approx.): Rebroadcast of 2YA, Wellington. (Relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band under the conductorship of Mr. T. Goodall.)
 Close down.

4YA, DUNEDIN (463 METRES)—SUNDAY, MAY 19.

- 3 p.m.: Town Hall chimes.
 3.1: Selected studio items.
 4.30: Close down.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.30: Relay of service from Hanover Street Baptist Church. Preacher, Rev. E. S. Tuckwell. Organist, Mr. Upton Harvey. Choirmaster, Mr. H. P. Desmoulin.
 8.5: Relay of concert by the St. Kilda Band, under the conductorship of Mr. James Dixon.
 9.15: Close down.

now made in two sizes



The famous Columbia *'Layertite'* Batteries are now available in two sizes; both 45 volts. One or the other of these two sizes will answer the requirements of every radio set made, except small portable sets.

Made of flat cells instead of the usual round cells, they contain more current producing material. They last longer and are far more powerful and economical than any other type battery of similar size.

Always insist upon



RADIO BATTERIES

GREATEST CLARITY, VOLUME & DISTANCE

Factory Representatives:
 ELLIS & COMPANY LTD.
 Chancery Chambers, O'Connell St., Auckland

*A Better
Milk for Baking!*

Write for Free
 Recipe Booklet to "Anchor,"
 Box 844, Auckland.



ANCHOR

SKIM MILK POWDER

Hawke's Bay Notes

ON Tuesday night, April 30, Mr. J. Ball, editor-announcer for the R.B.C., paid his promised visit to Hastings, and he was probably very surprised at the enthusiasm shown, in Hastings at least, over his visit. Mr. Ball was met on his arrival at mid-day by members of the executive of the Hawke's Bay Radio Society, and in the afternoon was taken for a lengthy tour of the district, including a run to the top of the Havelock Hills, the site which local enthusiasts contend is an ideal one for the establishment of the relay station as suggested by Mr. Harris's proposals before the Post and Telegraph Department. Mr. Ball was also very favourably impressed with the site and realised that a station at this point would undoubtedly efficiently serve all of Hastings and Napier, and, in fact, the whole of the Hawke's Bay province.

AT the conclusion of the afternoon tour (during which the visitor was given an opportunity to listen to the afternoon transmission from 2YA), the members of the Hawke's Bay and Napier Clubs' executives, and also the local radio dealers, entertained Mr. Ball at dinner at the Grand Hotel, this being a very happy and social gathering.

Following the dinner an adjournment was made to the Y.M.C.A. lounge, where Mr. Ball was greeted by an attendance of over 100 listeners. He was extended a very cordial welcome by His Lordship the Bishop of Aotearoa, who is president of the Hawke's Bay Radio Society—a welcome which was heartily endorsed by all present.

MR. BALL gave a lengthy but exceptionally interesting talk on the history of the R.B.C., and also outlined the proposals for the chain of relay stations, announcement concerning which he made at the opening of 2YB, New Plymouth. After his talk supper was served and then a receiver was tuned in to 2YA to give Mr. Ball an idea of reception of the big station in this quarter. Although with a strange turn of fate reception at this demonstration was better than it had

been over the past fortnight, it was certainly not good, and Mr. Ball is probably convinced of the great room for improvement. If he needed any further proof, however, he got it in the form of comments from all sides to the effect that the test relay of the band concert from Auckland on Sunday, the 28th, was received here at least 50 per cent. better from Auckland than it was from Wellington—yet Wellington has ten times the power of Auckland and is much closer to Hastings.

THE meeting was an exceptionally fair one, for although they had just reason for a kick over 2YA's reception, those present realised that the Radio Broadcasting Company had done and was still doing its best to meet the wishes of all, and this sentiment was embodied in a motion of confidence in the R.B.C., which the meeting unanimously passed. Mr. Ball was also asked to convey to his headquarters the thanks of all local listeners for the innovation of the dinner music session and also the extra dance music programmes.

ON the following day, Mr. Ball was again the guest of the Hawke's Bay Radio Society, on a motor tour of the district, and in this tour about 90 miles were covered. An interesting break was the visit to the New Zealand Tobacco Company's factory. In the evening, he was the guest of Dr. Ziele, president of the Napier Radio Club. He surely had quite a busy but enjoyable visit to this part of the Dominion.

NOT many local listeners were able to pick up 2YB with any appreciable volume and this new station will be of no use to Hawke's Bay.

LOCAL fans will be glad to know that the Auckland Boxing Association has now decided to allow broadcasts of future boxing contests in the Queen City.

CONGRATULATIONS to the Radio Broadcasting Company for its relay of 2YA through 1YA. It was a great piece of work, and in this quarter at any rate, 2YA was discarded in favour of the Auckland station.

MR. BALL, by the way, has promised to investigate the possibility of a relay from Hastings on the same lines as was carried out from Wanganui.

If this comes to a head, the local society promises to arrange a concert which will "startle the natives."

THERE is every prospect of that fine orator, the Bishop of Aotearoa, being heard over the air from 2YA towards the end of this or early next month. Mr. Ball made the necessary arrangements with His Lordship, during his visit to Hastings.

Auckland Notes

(By "Listener.")

LAST week has been one of such achievements that one wonders if he can remember them all. First in order of time there came the opening of 2YB, with 1YA's attempt to rebroadcast. The fates could not have been more unkind. Static was virulent. The rebroadcast was thus marred, but sufficient was achieved to show that under favourable conditions, whenever Taranaki has something special to offer, Auckland will be able also to put it on the air.

ONE of the greatest of local broadcasting efforts culminated in a veritable triumph on Sunday evening. The relay of 2YA astounded even the most optimistic. It was as perfect as a local broadcast, and was in itself an education as to the possibilities of radio. Many who heard Wellington for the first time on crystal sets, without any interference, were delighted. Inevitably the experiment will react for the benefit of broadcasting, for those who heard it now realise what lies ahead, and will become set owners if they are not already so. Both the telegraph staff and the staff of the Broadcasting Company concerned in the relay deserve best thanks for the splendid achievement. Incidentally, the public in Auckland were awakened to the disadvantage under which they are labouring through the absence of our own Municipal Band on the air.

AS a number of councillors returned at this week's poll are definitely pledged to the extension of broadcasting privileges where municipal music is concerned, we are hoping that the whole of the "ban (ne) d" question will be reopened at the council table and not in committee.

1YA kept up its reputation for sports announcements when it described the first of the season's Rugby at Eden Park on Saturday. Football began at 1.30, and so did 1YA. Both matches were exciting struggles, as all who listened are aware. Mr. Dudley Wrathall was at the microphone, and did full justice to the teeming incidents in three and a half hours' play.

"A NIGHT OF CONVIVIALITIES." Such was the title of this evening's programme from 1YA, and the title did justice to the fare offered. It was one of the breeziest evenings which local listeners have had. There was a delightful blending of humour and seriousness. Music, song, story, and "gag" were well interspersed, and the big unseen audience laughed as heartily, and felt like applauding as enthusiastically, as did those assembled in the studio. It was quite a "brain wave" to present such a programme, and whoever is responsible

for the freshness of the speeches and the many local "hits" deserves congratulation. We are all quite willing to join in many more such convivial nights.

THE pleasure of dining to 2YA's music has been spoiled for several nights by execrable atmospheric conditions, and all are hoping that the indication of better conditions over the Dominion and the Tasman will enable us to hear Wellington at its best. Then, of course, we shall ask for dinner music at 1YA.

THE newly-formed Radio Society did not fail to champion the cause of listeners during the municipal elections. It made the "band question" a subject of interrogation to each candidate, and was doubtless gratified with the replies received. Unfortunately the move made by the society was at such a late hour in the campaign that it was not as fully effective as it might have been.

Verification of W6XN

I HAVE to hand a verification card from the General Electric Co., Oakland, California, in regard to their station W6XN. W6XN is the short-wave station on KGO, and is to be on regularly to relay KGO's programmes. Their schedule is: Tuesdays, Wednesdays, and Fridays, 9.30 a.m.-1 p.m., Pacific standard time. Evening schedule not definite yet. Wavelength, 23.346 metres. Power, 5 k.w. writes a correspondent.

Have you secured your copy of

"N.Z. Radio Listener's Guide?"

Dealers and Booksellers 2/6; Post Free 2/9—P.O. Box 1032, Wellington.

Now Available

Improve your Reception

50%

By using

"P.R."

English Steel
MASTS

Telescopic Fitting,
Easily Erected.

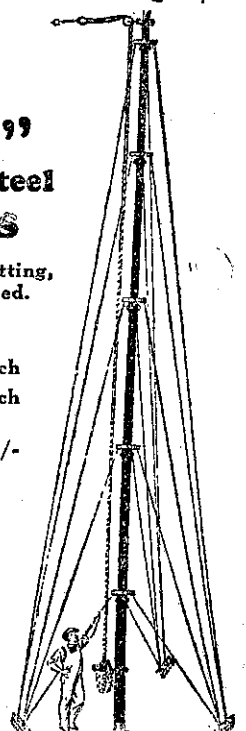
42ft. 48/- each
34ft. 39/- each
28ft. (cheaper grade) 24/-

Painted ready
for erection.
Complete with
Equipment.

Freight paid
on two.

DOMESTIC
VACUUM &
RADIO Co. Ltd.

STRAND ARCADE, AUCKLAND.



B.T.H. TELEPHONES

Supreme for Clarity and Comfort!

Remarkably sensitive, and will give good audible reproduction of extremely weak signals. Comfortable to wear, they are easily adjusted.

Approximately 5 feet of flexible cord with pin tops at receiver end, is fitted to each pair of headphones, and a nickel-plated connector for connecting other telephones in series is included.

Price £1

From all Radio Dealers and
the N.Z. Distributors:

THE NATIONAL ELECTRICAL & ENGINEERING
COMPANY, LIMITED.

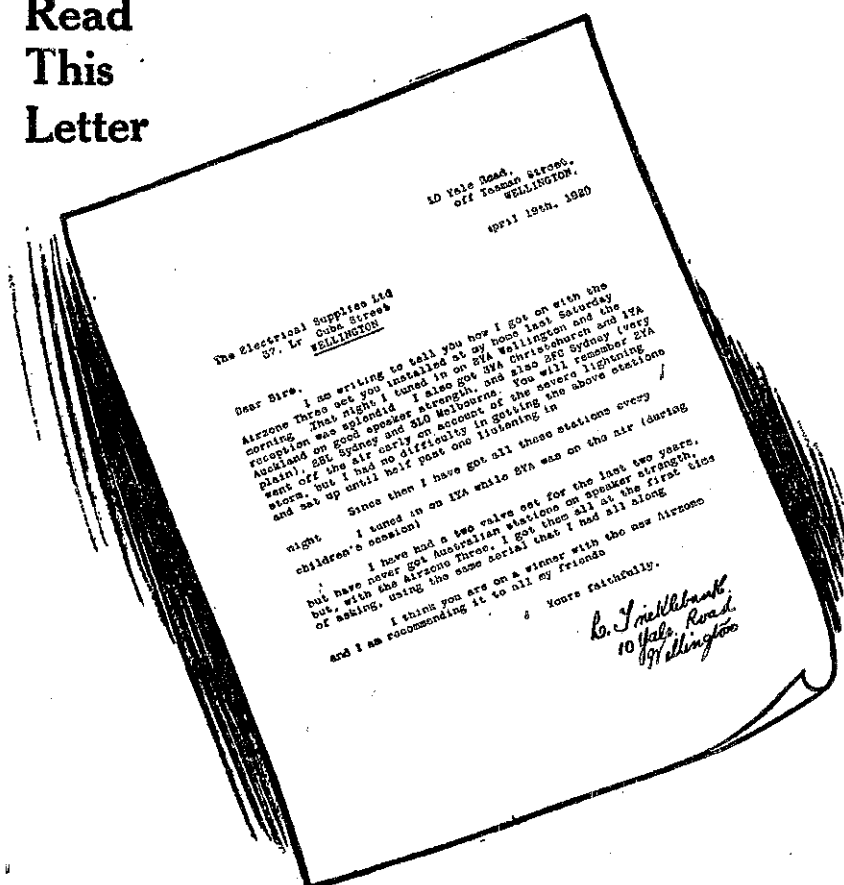
Auckland, Hamilton, Wellington, Wanganui, Christchurch, Timaru, Dunedin.



AIRZONE

Leadership!

Read
This
Letter



Reprinted from the "N.Z. Radio Record," of Friday,
April 12, 1929.

AIRZONE "THREE" ON DISTANCE.

(By "Observer.")

It has already been remarked that the Airzone "Three" is capable of handling very great volume without distortion, in fact it was found on test that it could operate a power valve of the 171 type. The main New Zealand and Australian Stations on a speaker have been claimed, and it was found by the writer to fulfil this claim. After the local station had closed down the following stations were brought in on the speaker at comfortable strength, that is, they could be enjoyed without straining: 1YA, 3YA, 2BL, 2FC, 3LO, 3AR, 4QG, 4YA could be heard. A special feature of the Set is its very smoothly operating controls.

*Two striking proofs of
Airzone achievement!*

One from a delighted broadcast listener and the other from an expert technician with every convenience at home to make a thorough and searching test.

The Airzone comes to you ready to be connected to the batteries and aerial —no troublesome assembling or testing —Airzone is a perfect product, ready to give you long and faithful service.

The price is, with Valves (Philips) £12/3/6
Complete with Philips Valves, Burgess Batteries and Loudspeaker . . £16/16/-

OBTAINABLE IN WELLINGTON FROM—
ELECTRICAL SUPPLIES, LTD., 37 Lower
Cuba Street.

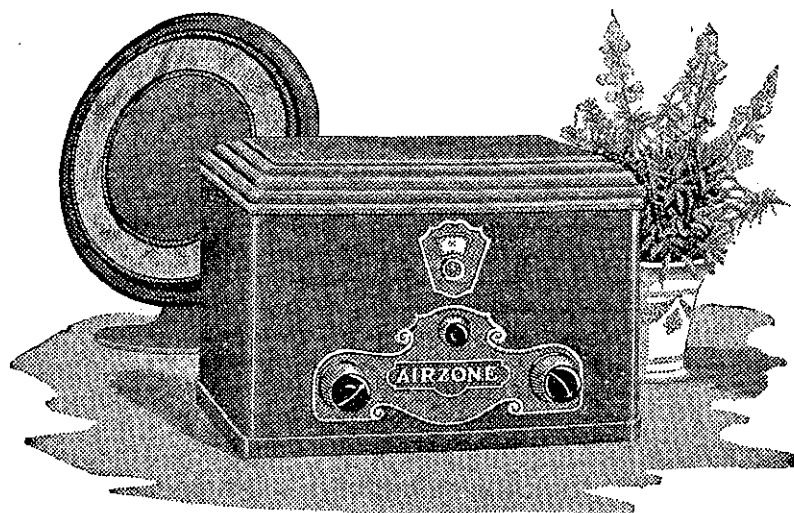
F. J. W. FEAR & CO., 63 Willis Street.
STIRTON'S MUSIC AND RADIO STORE,
Petone.

Dealers' applications for the few limited territories still open, must be made before the end of this month.

Apply in the first instance to—

NEW ZEALAND DISTRIBUTORS:

J. A. SMYTH & CO., 71 Victoria Street,
Wellington.



Causes and Cures of Radiation

Correspondents Make Complaint



HERE is little more annoying than a howling valve. Static and fading, perhaps, are worse, but they are uncontrollable, but for the howling valve, it is nothing more or less than carelessness and wantonness. The city areas are particularly troubled with this annoyance, and the time is ripe that some definite move be made to overcome it. According to the regulations of the Post and Telegraph Department, a receiver that causes interference is illegal, but still set owners with sets capable of radiating disregard this fact and carelessly handle their receiver.

Of the receivers we are interested in, there are two main types: the neutrodyne and the set using reaction. The former, if correctly neutralised, when built, will not cause interference, but it is less sensitive than the reaction-using set. It is mainly with these latter that the following remarks apply, but owners of neutrodyne who find that their set whistles, should re-neutralise, as has been described through these columns.

When Using Reaction.

SETS fitted with reaction, such, for example, as the "Browning-Drake," cause no trouble when used on powerful stations under good conditions. There is then no need to use regeneration and the set behaves as an ordinary balanced neutrodyne. It is very rare that users of such sets are content to remain tied to the few powerful stations that can be received without reaction. If the set operator is to use reaction then the onus is

upon him unless he wishes to make himself a pest to radio listeners to learn how to properly control that reaction.

Select a time when there are few stations on the air, preferably when there are none, and make all connections as for receiving. Advance the rheostat to the usual position. Now steadily turn the reaction dial, listening carefully, and noting the readings passed through. At a certain point a slight "plop" will be heard, and then a breathing or rustling. The set is now oscillating, but these oscillations are not being received by any other receiver. This is the oscillation point for that particular dial reading. Tune now to another dial reading, preferably on the other side of the dial, and repeat, noting the oscillation point. Make a note of these points, and consider them when tuning in to stations.

Annoyance is caused through the oscillations of the set heterodyning with the carrier-wave of a transmitting station. The set and the carrier-wave are almost, but not quite, at the same frequency, and the difference between the two gives rise to a beat note or howl, which will be received sometimes for miles. Anyone then who has tuned in to this station will receive the annoying howl, and in all probability pass some very fine compliments, which we hesitate to repeat, upon the dial twiddler.

When the set operator wishes to tune in a distant station, he should set the reaction dial as near as possible to the point of oscillation, and then gradually increase or decrease his dial readings until the signals are heard at maximum strength. Ad-

vancing the reaction control further than this point will cause a howl. It may bring the signal strength up, but will be accompanied by such a noise that it will be impossible to enjoy the reception. Such things are done to get a call-sign, but it must be remembered that that station is beyond the power of the receiver, and in getting its call-sign the programmes of all neighbouring sets tuned into that station are ruined.

Sets that will Oscillate.

IT is sometimes argued that one and two-valve sets using reaction are objectionable because of this. This cannot be said to be the case. For every receiver using reaction there is a station on the border line, whether this is a distant American on the border line for a 5-valve set, or whether it is an Australian station for a one-valver. Operators who do not understand their sets will make them howl irrespective of their size. This is nothing short of radio criminology. An operator who cannot use reaction properly should leave it alone or use a neutrodyne; failing that, the perfectly safe catwhisker.

Below we publish some letters received recently from our correspondents regarding this nuisance. The first correspondent, "Listen and Let Listen," complains about the "Combination Receiver," but his remarks cannot apply to this set more than to any set using reaction for the reasons outlined previously.

"It is generally admitted that many people are prejudiced against radio receiving sets, more especially of the multi-valve type, on account of the interference to good music by such things as static and howling valves, to mention only two, and we all know how these demons are more in evidence on that special evening when we invite our best friends or neighbours along for an evening's 'entertainment.' Old man 'Static,' I suppose, will always be with us. The howling valve nuisance can be reduced vastly to the benefit of all concerned by (1) educating the possessors of wireless sets to use their sets without causing annoyance to others; (2) discouraging the construction by amateurs of sets that are liable to cause such interference.

"All of which brings me to the subject of an article in the 'Record' published on the 12th instant, under the heading of the 'Combination' Receiver, wherein it is mentioned, inter alia, 'When operating this set care must be taken not to allow it to oscillate, as it is capable of radiating and disturbing neighbours' reception for miles around unless carefully handled.' In my humble opinion it is an ill-advised action on an expert to place in the hands of amateur constructors instructions on the construction of an instrument that is capable of annoying neighbours for miles around. It would be quite all right if all heeded the advice given to handle the set carefully, but painful experience has taught many of us that there are some people who consider nobody but themselves, others

through ignorance are quite innocent of the fact that their neighbours 'for miles around' are getting the full benefit of their ignorance. I have lately had occasion to appeal to the radio inspector on this matter, being one of the victims within the radius of the aforementioned 'for miles around.'

"In short, many prospective purchasers of expensive multivalve sets are 'scared away' from radio, by hearing the 'howling valve experts' spoiling the reception of good concerts by friends who have paid high prices for their instruments. When I read in the 'Record' that the possessor of a 'two-valve set' has logged 2BL, 2FC, and a few other stations he is 'not quite sure of,' I wonder if it ever strikes him that he has done so at the expense of perhaps hundreds of fellow-listeners, 'for miles around,' who have been forced to shut their sets down on account of his gymnastics at the dial."—"Listen and Let Listen" (Wellington).

"IT is only those who suffer from an 'oscillating oswald' know the 'tweaks' and 'groans' that can be radiated from a receiving set. Every Sunday afternoon from 3 till 4.30, and almost every evening from 6 till 7.30, this blighter lets his 'tweaks' and 'squeals' forth. I am sure a tribe of Chinamen couldn't make such a din. In fact, several times I have closed down for fear he would burn out my loudspeaker. I am quite satisfied he has no more idea of tuning a wireless set than of a wheelbarrow. I hope the offender reads this, because he will take warning. I would like to give his set a dose of cough mixture! Please remember: Do not regenerate to others as you would have them regenerate to you."—Neutrodyne (Gisborne).

The Howling Valve Nuisance.

MR. A. P. MORRISON, of Brooklyn, writes: "Most of the comment one reads nowadays points to the small set owner. We all know that some of them howl, but what of the multi-valve set, of course that is not supposed to make a nuisance of itself, but I might state there are a few around Wellington that once they start DX-hunting and break loose with their gurgling noises, one could pack all the little fellows together, but my money would be on the big fellows. Of course, on Wednesday nights, one gets a little 'ruffled' on hearing some one-valvers trying to reach out for Rhodesia, Zanzibar or Waitakaruru, etc., etc. I cannot understand why they cannot be contented to listen to a few Yanks or even Japan, because even a two-valver will sometimes outdo a multi-valve set in bringing in a few Americans, but most multi-valve set owners do their DX hunting with the loudspeaker, connected up.

Of course, she starts to make a noise like our old favourite the Harbour Board 10 o'clock chimes, and then they do not know if it is China or Lower Hutt that is coming in. My advice is, "Use the headphones to tune in the Americans, and then, if sufficient volume, connect up the loudspeaker."

Thomas A. Edison was asked, "Will it ever be possible to completely eliminate static?", and the reply, "It is improbable." I do not profess to be an Edison, but the same thing applies to the howling valve nuisance.

Have you procured your copy of

"N.Z. Radio Listener's Guide?"

Dealers and Booksellers 2/6; Post Free 2/9—P.O. Box 1032, Wellington. Now Available.

The Very Latest IN Electric Gramophones

For use in—

DANCE HALLS PICTURE THEATRES or THE HOME

For the Amateur Builder we offer—

POWER AMPLIFIERS, MOVING COIL SPEAKERS, ELECTRIC PICKUPS, ELECTRIC GRAMOPHONE MOTORS.

THOS. BALLINGER & CO., LTD.

58-62 VICTORIA STREET :: WELLINGTON.

"WHERE THE QUALITY GOODS ARE SOLD."

Our Correspondents Suggest

R.F. Booster--Neutralising the Two R.F.

QUITE frequently correspondents write in with suggestions. Where these have been tried out and proven we shall be pleased to publish them. They may help others, and what is radio when one cannot do that?

An Efficient Booster.

A Correspondent ("J.H."), sends the following description of a booster: "I have enclosed a rough sketch, with explanatory notes, re wiring, etc., of a booster I am using with my three-valve set. This little piece of apparatus is surprisingly efficient, and I thought it might be of use to quite a number of your readers.

The coil is a coupler type plug in coil (spacewound), range 200 to 550. The basket coils on sale in town for about

Very few circuits are clear enough to follow (to the man that knows more about a wheel-barrow than radio sets), as the theoretical signs and drawings are not clear enough for him; and so, after studying the circuit, as published by the majority of papers, he says to himself, "I am afraid I cannot build that, as I am not certain of two or three parts, or clear on a couple of points," and reluctantly lets it slide, and he is still making do with his little old set.

COMPONENTS FOR BOOSTER:

Variable Condenser .0005.
Coil Made or Bought.
Rheostat.
Valve and Valve Base.
5 Terminals.
2 Pieces of 6ft. x 6ft. x 1/4 in. Timber.
1 Fixed Condenser (1 mfd.)
1 15 ohm. Resistance.
Approximate Cost, £1 16s.

Note on the Requirements.

The constructor need not purchase a coil. Wind 50 turns of 18 double cotton covered wire round a three-inch former. Wind a piece of empire cloth or greased brown paper twice round the end of this, and wind on 18 turns. This is the primary and the former the secondary. The end of the secondary overlaid by the primary passes to the condenser and to the grid.

A resistance has been placed between filament and the condenser, but it has been omitted in the layout diagram.

In effect a stage of unbalanced radio frequency is being added, and this should give every satisfaction with small sets using detector and two or one audio. Care must be exercised in its operation, for if the rheostat is turned too high the set will oscillate and cause disturbance.

Wiring Directions.

1. Aerial post to condenser (C). Condenser to primary coil (the smaller).
2. The other end of this coil to E terminal.
3. Top of secondary coil to moving plates of condenser (to fixed would be preferable.), then to G of valve socket.
4. The bottom of the secondary coil to fixed plates of condenser (moving preferred).
5. The same plates to negative of valve socket and rheostat; this then to A—binding post.
7. From + on (G) socket to A + binding post.
8. From P of valve socket to P post.

Operation.

Remove aerial and earth from set and attach to booster. Attach lead from B battery 45 + to ground post on set. Attach lead from plate post of booster to aerial lead on set.

Neutralising the 2RF B.D.

I SAW your note re neutralising shielded 2RF Browning-Drake. I have done most of the coil-winding and wiring of three of these sets. In each case I found it absolutely impossible to neutralise on the circuit given in last May's "Radio Record," and so have reverted to another method which is much simpler to operate, and as far as I have found quite OK.

I am using a primary aerial coil of 24 turns jumble-wound top-end to earth, bottom to aerial. With this set I have been troubled with too much volume, and when rheostats turned too low then distortion creeps in,

so I have solved the trouble this way and find it very effective and efficient.

I have put a .0005 variable condenser in series in the aerial with a switch across it so as to cut it out for weak stations. This I have tried with a dozen other makes of sets, and found effective with all of them, and may be a help to others suffering from the same trouble.

As for the 2RF B.D., I cannot say enough in praise for it, and with my experience the biggest job is to get an audio to stand up to the output of it. Only one audio circuit, in my opinion, is satisfactory, and that is the push-pull. I have tried eight different types with five different makes of transformers, and they could not take the output without distortion at less than quarter the volume. This can put out

RADIO DIRECTORY

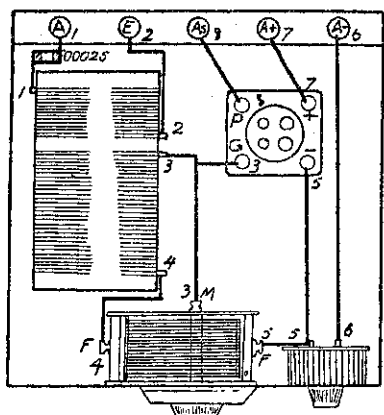
What to Buy and Where

CITIES

- | | |
|------------------------------------------------------|---------------------------------------------------------------------------------|
| ALTONA & HAMMARLUND. | Johns, Ltd.
Chancery Street. Auckland. |
| ROBERTS SETS. | |
| ATWATER-KENT RADIO | Frank Wiseman, Ltd.
170-172 Queen Street. Auckland. |
| BREMER-TULLY RADIO | Superadio, Ltd.,
147 Queen Street. Auckland. |
| BURGESS RADIO BATTERIES, | All Radio Dealers. |
| CROSLY RADIO | Abel, Smeeton, Ltd.,
27-29 Customs St E. Auckland. |
| CROSLY SETS | Lewis Eady, Ltd.,
Queen Street. Auckland. |
| DOMESTIC VACUUM AND P.R. AERIAL MASTS | Radio Co., Ltd.,
Strand Arcade, Auckland. |
| FERRANTI RADIO COMPONENTS | A. D. Riley and Co., Ltd. Anzac Ave., Auckland, and all leading dealers. |
| GREBE RADIO | Howie's,
Dilworth Building. Custom st., Auckland. |
| MULLARD VALVES | All Radio Dealers. |
| PREST-O-LITE. Car and Radio Battery Service | L. J. Purdie & Co., Ltd.
97 Dixon Street Wellington |
| RADIOLA RECEIVERS and Expert Radiola Service. | Farmers' Trading Co., Ltd.,
Hobson Street Auckland. |
| T.C.C. CONDENSERS | A. D. Riley and Co., Ltd. Anzac Ave., Auckland, and all leading dealers. |

COUNTRY TOWNS

- | | |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| CROSLY RADIO | J. C. Davidson,
Maia Street. Pahiatau. |
| CROSLY SETS | F. H. Jellyman, Ltd.,
Devon Street. New Plymouth. |
| CROSLY RADIO | D. A. Morrison & Co.,
Victoria Avenue. Wanganui. |
| MAJESTIC, ATWATER-KENT AND APEX ELECTRICAL SETS. Also Bremer-Tully, Radiola and Browning-Drake | Radio House, Hamilton.
G. S. Anchor, Manager. |
| PHILIPS VALVES AND APPARATUS | All Good Radio Dealers. |



2s. 3d. are also efficient for this booster. I use general purpose valves for set, and the booster. I have tried a power valve in booster, but find it is not so satisfactory as the general purpose valve. The surprising effect of this booster on my machine is that it is easy to cut out 2YA and get either Auckland or Christchurch stations (without wavetrap). I could not do that before, in fact, I could not get Auckland at any strength on the speaker, although I could get 2BL and 2FC on loudspeaker without the booster.

With the booster attached I get 2BL, 2OE, 8LO, 2FC, 3AR, 4QG, 2GB, one Japanese station when 4QG has closed down (JOAK), and, of course, all main New Zealand stations, all on the loudspeaker, and good volume. I have heard also the small Dunedin, 4ZL, station, at loudspeaker strength.

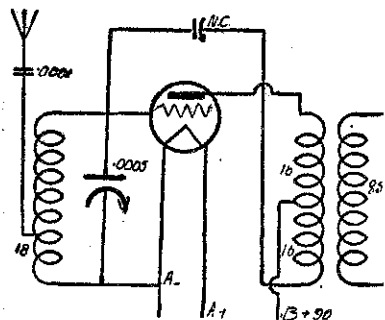
No doubt this simple booster is well-known, but I have never seen it published.

MY rough drawings have been done as plainly as possible, and the explanations re wiring have been given in a style that will, I think, be the easiest understood by the amateur who has not any technical knowledge of radio.

This style of explaining how to build a set would, I am sure, be appreciated by others who, like myself, know practically nothing about radio, but want to build a set themselves as a hobby, but get tangled up with the diagrams, etc., published in nearly all radio papers.

far too much volume for comfort, so I advise anyone considering building one of these sets to get in for nothing except push-pull audio.—B.D. and PUSH-PULL (Nelson).

The method of neutralising is that known as split primary, and should be equally effective as that originally



It can truthfully be said that the valve plays the greatest part in most sections of radio, and modern methods of speech reproduction. Unless some alternate component had been invented and used, radio could not have progressed so far and so rapidly. As a rectifier the crystal cannot hold its own against the valve when properly used. One or two so-called valveless amplifiers have been introduced, tried and then cast aside in preference to ones using the valve.

Since the valve plays such a great part in the receiver, it is just as well to get a fair idea of its performance not only when tested by the usual means, but also under actual operating conditions. This article will deal with the electrode valve when used as an amplifier, the next issue with the valve as a detector, followed by a discussion on the new screen grid and pentode valves.

What the Graph Indicates.

THERE are quite a few really enthusiastic amateurs who do not fully understand and realise the importance of the graphs generally supplied with each valve, and to these a few lines will be devoted to a simple explanation. As the name suggests, the three-electrode valve has three elements—the filament, the grid and the plate. Two circuits are employed, the grid and the plate and filament, the latter being common to both. The one is called the input or grid circuit, and the other the output or plate circuit.

When the filament is heated by the low tension supply, electrons are given

Finer Details of Radio

The Three-Electrode Valve as an Amplifier

By "PENTODE"

off, which, being of a negative character, are attracted by the positive potential applied to the plate by the high tension or B supply. Each of these electrons carry a small charge of electricity, and a current flows from the filament to plate, through the meshes of the grid.

Now consider what would happen if various potentials were applied to the grid. If of a negative character, this

the valve when the grid is made positive.

Space Charge.

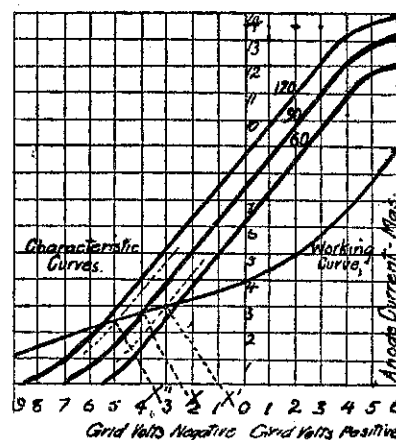
ON first thoughts it would appear that the grid, being positive, would attract the electrons to itself, robbing the anode and keeping the plate current more or less constant.

When the filament is heated electrons fly off with a comparatively small velocity, forming what is known as a space charge around itself. Without the attraction caused by the positive plate potential these electrons would merely fly off, circle round and return by the filament once more to the filament. As the plate voltage is increased so the number of electrons which pass from filament to plate increase. This continues until the space charge is no longer present, all the available electrons being drawn away by the positive plate voltage. In this condition the valve is said to be saturated. Now, instead of increasing the plate voltage to produce this effect, it can be done by increasing the grid voltage in a positive direction. The reason that the electrons do not all fly to the grid is due to the fact that their velocity carries them past the grid into the direct influence of the plate voltage, and only a small proportion actually settle on the grid producing grid currents. So much for the characteristic curves given with various valves, and let us see if these curves still hold good when the valve is used in a receiver.

Under Working Conditions.

GIVEN a valve possessing characteristics as shown in the accompanying graph, let us see what happens when used in the position of an audio frequency amplifier, a transformer primary being in the plate circuit. With a plate voltage of 90 a grid bias of 4 volts can be given and the valve is operating at the position marked x.

Alternating current voltages are applied to the grid, which for our argument can amount to 1 volt on either side of the operating point. These are reproduced in the plate circuit as voltage variations of this value multiplied by the voltage amplification of the valve. In this case it is 13, and the output would be 26 volts alternating current of the same frequency as that of the input. Neglecting the steady anode current of 2.75 milliamperes, the alternative anode voltages would be associated with varying anode amperage, as can be seen from the graph. On the positive 1 volt, half of the grid swing, the anode current would vary by approximately 1 millamp. This current variation would be applied to the primary of the transformer in the anode lead of the valve. This primary has a fairly high A.C. resistance or impedance, causing a voltage drop across it. This voltage drop depends upon several factors, namely, the impedance of the transformer primary, the A.C. current flowing, and the frequency of the alternating current. Without knowing the value of all these the plate voltage cannot be defined, but it is lower than that originally used and will move the operating point of the valve



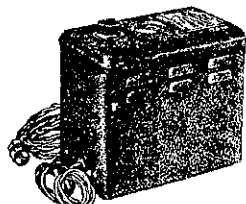
would oppose the negative electrons emitted from the filament, and reduce the current flowing in the plate circuit, while if a positive potential was applied to the grid, electrons would be attracted to the grid and a current would flow in the grid to filament circuit. This is undesirable, as will be explained later.

AS an example, let us take a general purpose valve and see what relationship exists between the applied grid potential and the plate current. Starting with a constant "B" voltage of 90 volts, the normal resistance of the valve allows a current of 7.3 milliamperes to flow with the grid at 0 volts. Apply 4 volts negative bias to the grid, and the anode current drops to, say, 2.75 milliamperes. Still further increase the negative grid bias, and a point will be found where the applied grid potential completely cancels the effect of the 90 volts "B" battery, and no current at all flows in the plate circuit. In the example taken this occurs when 7 volts negative bias are applied.

Now, it can be seen that seven volts applied to the grid controls the plate circuit to the same extent that the 90 volts "B" supply do, and from this the voltage amplification of the valve can be determined. In this case it amounts to 90/7 or 13 approx.

Reference to the diagram shows how this can be depicted on paper in graph form. The horizontal lines indicate the anode or plate current in milliamperes, while the vertical lines show the applied grid voltage. The negative on the left and the positive upon the right. The two dotted lines indicate the curve when plotted with the various anode voltages shown. Neglect for a moment the third curve plotted across the graph and consider the performance of

Modernise your Set and Banish Battery Troubles

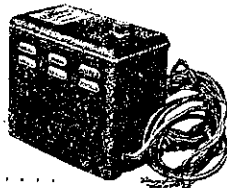


EMMCO "A" SOCKET POWER SUPPLY

The Emmco "A" Socket Power Unit eliminates the use of an "A" Battery and works direct from the A.C. mains. Knob regulates voltage to valve requirements. Output 1 amp. at 6 volts. Can be used with any set up to 10 valves PRICE £8/15/-

EMMCO MAXUM "B" ELIMINATOR

The Maxum is an improved "B" Eliminator. Will operate sets with up to seven valves. Knob control permits variation of 20 volts for all tapings by altering connection to resistance strip in case. Voltages can be changed to different valves PRICE £12/12/-



A Maxum and an "A" Socket Supply makes your Set "ALL ELECTRIC" without alterations in the Wireless.

ALL EMMCO PRODUCTS ARE FULLY GUARANTEED

MADE BY ELECTRICITY METER MANUFACTURING CO., LTD.

Distributors for New Zealand:

JOHNS LTD., Chancery Street, AUCKLAND.

THOS. BALLINGER & CO., LTD., Victoria St., WELLINGTON.

L. B. SCOTT LTD., Worcester Street, CHRISTCHURCH.

to some point to the right. For our example let the voltage drop be equal to about 30 volts, thus for this half-cycle the valve would be working on the point marked X.

On the other half-cycle the current flowing through the transformer would be decreasing and, due to the dynamic effect of this component, anode voltages would be built up on the plate exceeding the normal B battery voltage. Thus the valve would operate on a slightly different curve, represented by the point X2. The difference between characteristic curves obtained by the tests made on the bench and the working curve actually made use of when a load is included in the plate circuit is now quite apparent.

Across the Zero Line.

It has been asked often, why, as the characteristic curve is straight on both sides of the zero grid point, cannot the grid swing be allowed to run over the other side to the positive even slightly? Reference to the characteristic curves on the graph make it seem that even if the grid worked at zero potential then the variations in the plate circuit would be in direct proportion as the line runs quite straight on either side for a considerable difference. This is so for characteristic curves only. If the grid becomes positive, then grid currents would flow. As a resistance or impedance is included in the grid circuit of any working valve, this would interfere with any current flowing in the grid circuit. It has been shown before that a voltage drop occurs across the anode impedance or resistance and the same would occur across the grid impedance if current was allowed to flow and alter altogether the straightness of the working curve. These currents certainly would be comparatively small, but being in the grid circuit would be amplified by the valve itself.

Another point that is made apparent is that the correct operating point of a valve is obtained by biasing the grid at a point to the left of the middle of the straight portion of the characteristic curve.

New Australian Stations

A WRITER in the Sydney "Wireless Weekly" says regarding the new broadcast stations which are to be on the air in Australia in July: "The Press reports of the tender conditions mention the fact that the power of the stations required by the Commonwealth Government is set down as three kilowatts and five kilowatts. What strikes the radio fan, of course, of special interest, is the fact that the method of rating the stations is different from that usually adopted by the Commonwealth Postal Department. In the regulations, which are all familiar with, the power is mentioned as the wattage in the 'high frequency generator circuit'; that is the power, stated in watts, in the plate circuit of the main oscillator, and excluding the modulator power. In these tenders the power is to be the watts in the aerial. This is probably adopted as following the lead of the Americans; it is a better system to follow anyhow, as it is a better indication of the engineering capacity of the station than the other method of specifying the plate power of the oscillator alone."

The Combination Receiver

Adding an Extra Stage

CORRESPONDENTS have been successful with this receiver, and we have been asked how another stage may be added. This is quite a simple operation, but to make a first-class job the receiver should be dismantled and made up after the layout of the two-valve receiver. If, however, this is not intended, the following short description will be of value to those who want merely to add another stage to the existing set.

All that is necessary in the way of components is a transformer, a valve socket (and valve), another "B" and a "C" battery, 9 volts or two 4½ volt C's. Take a baseboard measuring 6in. x 4in., and place the transformer and the valve socket close to one another. Place this board at the back of the existing set. Arrange the transformer so that it will be almost opposite the valve socket of the "Combination" set, but with its axis at right angles to the axis of the transformer now in use. Turn it round so that "B" plus and "P" are facing the assembled receiver. The valve socket is to the left of this, with "P" and "G" facing the transformer. Screw these into position. Extend the terminal strip to allow three more terminals, "C-1" and "C-2" and "B plus 2." Disconnect the "T" terminal of the valve socket, which is connected to the jack, connecting it (the terminal) instead to "A" plus. The wire so disconnected is taken to "T" plus of the new valve socket. Take the other "T" terminal of this socket to the terminal of the rheostat which connects directly with the valve. If the valve is inserted now (with the plug in) and the rheostat turned on, it should light, indicating that the connections with the filament, at least, are correct.

Lift the connection between the R.F.C. and jack number 2, taking the lead from the choke instead to "P" of the new transformer. Connect the vacancy so made at the jack to "P" of the new valve socket. Connect to "B" of the transformer to the voltage now applied to the jack. This point of the jack now is joined to the highest "B" plus voltage available. Connect negative of one "B" battery to the positive of the other and the free negative to the binding post "B-." The "B" of the transformer will require from 22½-45 volts. The last stage (to jack) about 90 for satisfactory volume and quality, though it may be reduced to 45.

Connect "G" of the new transformer to "G" of the new valve socket.

Remove the connection existing between the rheostat and "C-" of the transformer in the original "Combination" set. Take this instead to "C-" 4½ (a new battery) (or to C-1 and thus to the battery), and connect its positive to "B-." Take another 4½ battery, connect the positive to the negative of the "C-1" battery, and its negative to "C-2" on the terminal strip. Connect this with "C-" on the new transformer.

For Sale or Exchange.

See page 32 for column of casual advertisements.

Crystal Corner

The Crystal and Valve.

"E.T.D." (Lower Hutt) has constructed this receiver, and has had good results on the loudspeaker 2YA, and on phones 1YA, 3YA, 4YA, 2ZT, 2ZM, 2FC, 2BL, 3AR, and 2GB, and many others whose call-signs are difficult to catch. Now, however, he states, the receiver will oscillate for a few seconds and only on a small portion of the dial. Both the "A" and "B" batteries are only three months old, and with the last "B" battery the set would oscillate freely with 8 volts on the plate.

A.: The "A" batteries are, no doubt, run down, for a detector will oscillate with very low voltage on the plate, but the filament voltage must be up to full strength, or thereabouts. Try new "A" batteries, and see the result.

My valve has been in use for nine months. Is it falling off in efficiency? If so, what make of 2-volt valve do you recommend for this circuit?

A.: It is unlikely that the efficiency of the valve is impaired through its use. In any case, it should be tested by a dealer. The make of valve is a good one, and we could not recommend a better.

Can two 1½-volt batteries be used with a 2-volt valve, controlled by a 3 ohm resistance?

A.: Yes, but when the batteries are new, do not turn the rheostat on full.

What is the cause of "blind spots" on a part of the dial, and what is the remedy?

A.: The cause is that the aerial, which has its own natural frequency, becomes tuned in resonance with the set and alters its tuning. The batteries, too, may have an effect in this direction. Try a small fixed condenser—.00025, say, in the aerial circuit, but see "Questions and Answers."

ANOTHER correspondent, "W.B." has had difficulty with the three-in-one. When the output of the crystal is joined to P, of the transformer, he can hear nothing. He asserts that the wiring has been tested by a radio dealer, and no mistakes found. He asks how another stage may be added.

A.: It is extremely difficult to state through the columns where a mistake may be found, when the receiver itself has been checked by a dealer and said to be O.K. One can only suggest that the valve is at fault, or may be the transformer. These should be tested. Another stage may be added as described for the "Combination" receiver this week.

Failure of Carborundum.

"E.A.C. (Christchurch) has not had satisfaction with the carborundum. It would not work on his set, while when tested on a neighbouring set it proved O.K. Tried again on his own set, it refused to function.

A.: This type of crystal sometimes requires rough treatment. Give it a sharp jar and then try. Also try reversing it in the holder.

DX News

Was It 70Z?

I WOULD be very pleased if you could supply me with the information regarding a station I heard last Wednesday, 10th inst. This particular station was operating right on 3YA's wavelength, 8 p.m. during the children's session. The strength was fairly good, but was inclined to fade. The announcer, who had a very cheery voice, seemed to be very interested in the "movies." He was talking about different actors and pictures in particular "The Trail of '98." He mentioned Launceston, Tasmania, a great deal. Could this have been 70Z? I think it was the same station I had on the previous Wednesday when a church service was being relayed. This seemed like Stainer's "Crucifixion."—D.G., Wellington.

3DB Identified.

I NOTICE in this week's "Radio Record" a correspondent, Mr. A. Stanley, of Khandallah, asking the identity of station he presumed to be 3DB, Melbourne, which he heard on Thursday night, April 11, on a wavelength of 250 metres. I heard this station a little earlier than my southern friend, on two valves at fair 'phone strength. I heard the call sign 3DB, Melbourne, very clearly. This is a 500 watt station (Australian rating), and is situated in Capitol House, Melbourne, broadcasting nightly on a wavelength of 252 metres. Another Australian heard the Monday evening of the same week was 3UZ, Melbourne, on 319 metres; volume was exceptionally good for two valves. Mr. Stanley mentions having heard another station a degree or so above 3DB. This would probably be our local station, 1ZQ, which broadcasts on 253 metres, on both Monday and Thursday from 8 till 10.30 p.m. the last half-hour after being devoted to dance music.

On Monday night the 15th instant, I located a station at approximately 9.30 p.m. talking in a foreign language about 4 degrees below 4QG, Brisbane; and as no announcement was made in English I am somewhat puzzled, as to who my foreign friend is. The talk was fairly quick and I had it at good 'phone strength. Who is he?—N. D. Campbell (Auckland).

[The station is most likely JOGK, Japan, on 380 metres.]

Japs Conversing.

ON a recent Sunday I heard two Japanese stations conversing with each other. The dials were set on 39, 43, 45 and 37, 40, 42. The latter I hear every night after 8 o'clock. Will you kindly enlighten me who they are?—"Gilfillan" (Eketakuna).

[Probably JOAK (375 metres) and JOGK (380 metres).]

"FROTHING" of an accumulator is generally a sign that faulty or unsuitable material has been employed in the construction of the celluloid case.

WHY?

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

BURGESS RADIO BATTERIES

Notes and Comments BY "SWITCH"

THE new dinner music session by 2YA, Wellington, is thoroughly appreciated by all the listeners with whom "Switch" comes in contact. The music fills a gap in the early evening which listeners have, in the past, regretted. The advent of winter, with its earlier hours of darkness, has also favoured the putting forward of the kiddies' sessions.

THE residents of Petone, the four-miles-away suburb of Wellington, appear to have taken up broadcast listening wholeheartedly. On all sides in and around Petone can be seen dozens of aerials, and in some areas there is quite a small forest of aerial masts. Another radio suburb is Lyall Bay, where there are scores of aerials.

TWO Wellington listeners have informed "Switch" that they are obtaining rather good loudspeaker reception of 2YA using only a crystal set and a moderately-priced loudspeaker without any form of amplification. One listener is situated half a mile from the 2YA aerial, and the other just on three-quarters of a mile. Both are employing semi-permanent crystal detectors of English make.

IN connection with crystal set loudspeaker reception of 2YA, Wellington, it will be found that the best results are generally obtainable with a loudspeaker fitted with an adjustable diaphragm. An adjustable diaphragm can be set usually to a position of greater sensitivity than a fixed diaphragm. The larger the loudspeaker the better the results.

AN Australian radio writer says:—"Full-length comedies and dramas, and also playlets, are less popular because they demand the constant and undivided attention of the listener. Music can be listened to subconsciously. I have quite a few acquaintances who shut off their sets because they 'Can't be bothered listening to all that talking.'" If one can judge from the remarks of listeners in New Zealand

a full-length comedy or drama is not popular on the radio. A brief comedy or drama occasionally, if it is suitable for broadcasting, is not unacceptable.

NEW ZEALAND listeners will sincerely regret the mishap to the Auckland airman, M. Mase, who crashed in France while en route from England to New Zealand. Mr. Mase, fortunately, did not receive any serious injury, and "Switch" believes that news will soon come through that he is on his way to New Zealand again.

THE Wellington Symphony Orchestra provided a broadcast musical treat on relay from the Wellington Town Hall last week. Mr. Leon de Mauny, the conductor, is deserving of the highest praise for the pitch of efficiency attained by the orchestra which was formed only a few months ago. The Tchaikovsky programme could not fail to please anyone with a true musical sense.

2YA, WELLINGTON, made a success of the broadcasting of the municipal election results, giving up-to-the-minute news from 8 p.m. till 12.20 a.m. The figures were clearly announced on every occasion, and many thousands of listeners, spread far and wide, had reason to appreciate the broadcast service.

IN America a year or two ago, a plebiscite was arranged through the well-known station WEAf, New York. Fully 70 per cent. listeners requested jazz. The following year, through the company's consistent policy of sending out high-class entertainment, including educational talks, symphony concerts, chamber trios and quartets, jazz dropped to 25 per cent. classical appreciation rose to the same level, with educational lectures touching the 30 per cent. mark. What a wealth of opportunity broadcasting holds in thus creating ideals and higher appreciation in the community!

AN engineer residing at Hokitika has written to the New South Wales Broadcasting Company as follows:—"I wish to say a few words which may interest your engineers. Some few weeks ago we had a severe earthquake here—the centre of it was 100 miles from Hokitika, at Arthur's Pass, in the Southern Alps. One quarter of an hour before the 'quake 2FC station came through perfectly clear—previously there was slight static. The station remained clear all through the 'quake until twenty minutes after it was over—then the usual static came on again. Two days after the 'quake we had a splendid display of the Aurora Australis in Hokitika. While this was on I could not pick up the New Zealand stations, but all the Australian stations came through very good."

THE writer heard the other night from 3AR, Melbourne, where the conductor of community singing was making his opening speech: "Ladies and gentlemen, and listeners-in." Another example of class-distinction, perhaps.

THE big Californian broadcast station, which is often heard in New Zealand, KGO, was recently the recipient of a request from a California highway foreman employing convicts for road work, stating, "Please play more classical music. Members of the gray-walled fraternity from San Quentin (the big prison) are fed up

Short-Wave

OWING to pressure of space it is regretted that all short-wave notes will have to be held over till next week.

of jazz. They would like to have you play a selection from 'Faust,' preferably not the Prison Scene." This reminds one of a concert party's visit to a female prison in New South Wales. One performer sang, "It's Quiet Down Here," and at the conclusion of the item an old woman convict called out, "Too blanky right. It is quiet down here."

THE word "shanty" is frequently spelt "chanty" as applied to the sailors' song while heaving. The Oxford dictionary holds out for "chanty," but other dictionaries (such as Ogilvie and Annandale's) use "shanty." A strong argument is now being urged in favour of "shanty," and that it is a mistake to associate the word as a derivative of the French word "chant," a song, as there is no parallel to these choruses among the French sailors. On the other hand, in former days, the negroes in the West Indies, when shifting their shanties, or huts, on wheels from one place to another, sang similar choruses to aid them in hauling all together. The English sailors adopted and adapted these old-time shanty songs, which eventually became known as "shanties." When lexicographers disagree, who shall decide?

THE majority of beginners imagine that a certain circuit or set will operate just as efficiently with one make or type of valve as another. The question of valves is most important, and if a set is being designed for one purpose, for instance, selectivity, it is advisable to use the correct valves, which must be of the high impedance type. Remember that in a neutralised receiver, the same results will not be obtained by using low impedance valves in the RF stages even though they are easier to neutralise, although they might serve with medium results for the time being.

AN "old hand" told "Switch" of a plan which should commend itself to other listeners who have the welfare of radio at heart. He said: "If static is severe when I have a number of guests in my house I abstain from tuning in the distant stations. The programmes of 2YA are good enough to entertain my visitors, and there is no need to tune in distant stations, together with a clatter of static. If you do you will only send your guests

home with a headache and a very poor opinion of broadcasting." Quite so.

SOME misgivings were expressed at meetings of the Amateur Radio Society of Wellington last year that the Australian stations may change their wavelengths, and would, as a result, in some cases or case clash with the New Zealand stations. There is a possibility of a change in the wavelengths of the Australian stations in July, when the Commonwealth Government takes over the A class stations. If any of the stations became entangled with the New Zealand stations listeners need have no fear as to whether the trouble would be corrected very promptly. The whole world owns the ether, is the opinion of the International Radio Conference of America, thus sustaining the principles laid down in the 1927 conference that there is no sovereignty in the ether. Each country is duty bound to prevent interference in its own domain, and by mutual agreement with neighbouring countries to aid the same end co-operatively.

FOR SALE OR EXCHANGE

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

SHORT-WAVE SET and number of Radio Parts, Condensers, Transformers, etc., for sale, very cheap. Apply P. J. Cannel, Rongataua, K.O.

WANTED SELL, 5-Valve Radio, complete, Accumulator, "A" Charger, "B" Eliminator, Loudspeaker. Cash £20. Apply "Calcutta," Box 1032, Wellington.

FOR PRIVATE SALE, Seven 20-Volt Units Fuller "B" Batteries; large capacity; in perfect condition; cost £9 9s. What offers? Write Radio, care 110 Southern Cross Building, Auckland.

FILING COVERS for "Radio Record," strong board, pierced, 1/6 post free. "Radio Record, P.O. Box 1032, Wellington.

WANTED.—Used Edison or Hawley Wet "B" Batteries. Any condition. Write particulars to C. Kyle, Aokautere.

KEEP your "Records" neat. Filing covers, strong, printed and pierced, 1/6 post free.—"Radio Record," P.O. Box 1032, Wellington.

8-VALVE Radio Receiver, in new condition, with Valves. Also good Radiola Speaker, P.B. Eliminator. Apply "Valve," Box 1032, Wellington.

5-VALVE Raleigh Radio Set and Valves, in good order. Reason for selling, owner going in for All-Electric Model. Freight paid and an A and B Battery Charger given in free with Set. Apply "Receiver," Box 64, Henley, Otago.

HAVE you obtained your "Listener's Guide"? 2/6 from booksellers and radio dealers, or 2/9 post free from the publishers. Box 1032, Wellington.

Printed and published for the New Zealand Radio Publishing Company at the registered office. Wakefield Street, Wellington, of the Wellington Publishing Company, by Archibald Sando, of 47 Freyberg Street, Lyall Bay, FRIDAY, MAY 10, 1929.

Mack's Radio Service is Free!

To all Listeners, Home Builders, and Amateurs—

ONLY

When the game is played fair, that is—Your Name! Your Envelope! and Your One Penny Stamp!

—of ques ary

MACK'S RADIO

76 KENT TCE., WELLINGTON.

Telephone 20-798.