

WIRELESS WEEKLY

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Published by post as a newspaper

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FRIDAY, APRIL 9, 1926.



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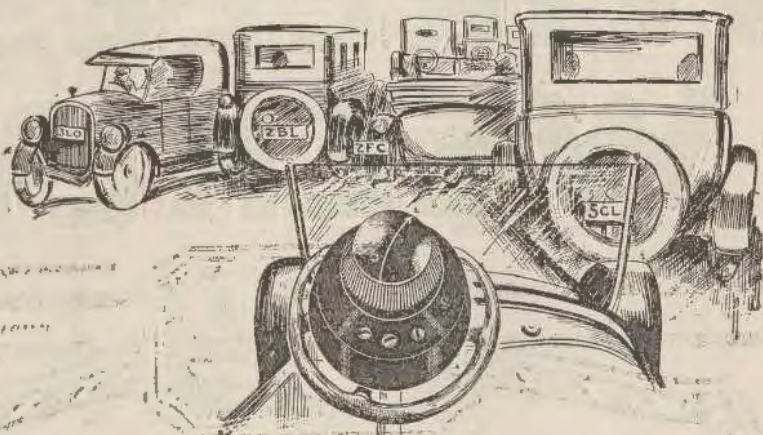
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FOR THE
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A 500,000 ohm Amplification Control that gives perfect control from a whisper to maximum volume. Used by United Distributors in the new "Capad-dyne" circuit.

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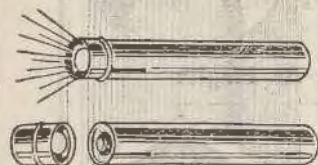
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Neat and portable — ready for use at any time. Carried in the same manner as a fountain pen. Light is produced by a slight pressure on the clip. Length 6 1/2 ins. Weight 2 1/2 ozs.

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A new idea in pocket electric torches — absolutely fool proof. When light is required remove and cap, reverse it and replace it in the tube. When light is no longer required reverse the operation. No switch to get out of order. Finished best nickel plate.

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Price Complete

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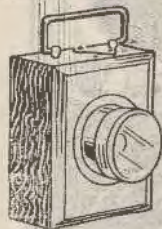
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No. 1547, each 1/8

No. 1, each .. 2/3

No. 1, each .. 2/3

EVER-READY POCKET LAMPS.



EVER-READY TORCH BATTERIES

From 10d. Each Upwards

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No. 1283. The "Popular" Hand Lamp is of excellent quality and finish. The fittings are of solid brass polished and heavily nickel plated. Cases containing dry battery are substantially made of selected hardwoods. Size 5 x 3 1/2 x 2 1/2 in. Weight 1lb. 7ozs.

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No. 1839L, Price complete 6/6.

No. 1551. Price complete 11/3.

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If unobtainable locally write for address of nearest source of supply

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For Prices refer to Wireless Weekly Advertisements

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Brandes



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makes a friend of the electrical impulse

Acoustics is the science of sound. Radio acoustics is the science of transforming the electrical impulse into a audible sound. The electrical impulse is a jolly little fellow who needs to be consulted if you are to get the best out of him. We've been making friends with him for seventeen years and the *Table-Talker* is but one result of our efforts. The goose-neck horn means clearer and more rounded tones, and the patent material of which it is constructed eliminates any suggestion of harshness or metallic resonance. Fitted with an adjustable diaphragm, it is finished in a pleasant shade of neutral brown. Height 18", bell 10".

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WIRELESS WEEKLY

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"Questions and Answers." All requests by non-subscribers calling for technical advice or drawings MUST be accompanied by postal note or stamps to the value of 1/-. A maximum of four questions is allowed.

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All accounts should be made payable to Publicity Press Ltd., 12/16 Regent Street, Sydney.

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THE AMATEUR EXHIBIT.

As was announced in Wireless Weekly of 26th March, a feature of the big Radio-Electrical Exhibition to be held from May 3rd to May 8th, at the Sydney Town Hall, is to be an Amateur Exhibit which is being organised by Wireless Weekly. Incidentally this Exhibition, combining as it will, the exhibits of the largest concerns in Sydney, promises to be an unqualified success and the public is assured of viewing the very latest in wireless apparatus and of being afforded an opportunity of inspecting the latest scientific appliances.

This being so, we are naturally anxious to make the Amateur part of the Exhibition equally successful, and it is a very real pleasure to announce that ample amateur support is coming forward. The Waverley Radio Club has just finished the construction of a complete amateur station, which will be placed on Exhibition. Not only is it to be shown, but it will be seen in actual operation handling amateur traffic. In addition to this, the members of that club and of the Croydon Radio Club are planning to include individually constructed apparatus in the Exhibition. All other Metropolitan and Suburban Clubs have been notified of the Amateur Exhibit and we confident-

ly anticipate entries from many of their members. For the convenience of those who have not been following the announcements, we are printing the particulars again.

LIST OF ITEMS.

- 1.—The Best Low Power Transmitter. 1st prize, £3; 2nd prize, £1/10/-. Entrance fee, 2/6.
- 2.—The Best Designed Short Wave Receiver (tuning from 20 metres upwards). 1st prize, £2; 2nd prize, 10/-. Entrance fee, 2/-. .
- 3.—The Best Home Made Piece of Apparatus. 1st prize, £3; 2nd prize, £1. Entrance fee, 2/6.
- 4.—The Most Novel Crystal Set. 1st prize, £2; 2nd prize, 10/-. Entrance fee, 2/-. .
- 5.—The Most Selective Crystal Set, 1st prize, £2; 2nd prize, 10/-. Entrance fee, 2/-. .
- 6.—The Best Multi-Valve Set (the main features of this to be selectivity, sensitivity, attractive design, efficient layout, and good loud speaker reproduction). 1st prize, £3; 2nd prize, £1. Entrance fee, 2/6.

It will be seen from this that the broadcast listener is catered for as well as the amateur.

Notify us as soon as possible of your entry and keep in view the fact that every entry, no matter how small helps to make this Amateur Exhibit a complete success. A. W. WATT

"BURGINPHONE" WIRELESS RECEIVERS

AUSTRALIA'S BEST BY TEST

Tune-in that distant station with a

"BURGINPHONE" SUPER EIGHT!

Manufactured in response to a demand for a highly efficient receiver that will tune-in the main Broadcasting Stations of Australia without the use of outside aerial and with more ease than ordinarily accompanies high-class receivers requiring outside aerial.

The outstanding features of this "Burginphone" are

SELECTIVITY
SIMPLICITY
PERFECT REPRODUCTION
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Truly a DX receiver of merit.

Manufactured by

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Demonstrations, Prices, Terms, and Particulars on request.

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Dulcivox Sweet Voice	2	10	0
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LOUD SPEAKERS AND HEADPHONES Repaired, Rewound, Adjusted, and Re-magnetised			
HEADPHONES from 12/6 to	£4	0	0
MARVELLOUS TALKING TAPE	7	6	
.0005 Condensers, Variable	5	0	
.001 Condensers, Variable	6	6	
3 inch dials, each			9

Complete sets and parts on TERMS or lay by.

LOOSE COUPLER PARTS Complete 11/6
 Coil Plugs, each 9

A Useful Instrument for the B.C. Listener or Experimenter

By R. C. V. Humphery

Editor's Note: For the last two or three months "Wireless Weekly" has been flooded with letters from local and Melbourne readers asking for particulars concerning an efficient wave trap, capable of eliminating the local station.

The older experimenters will tell you it is easy, but invariably the night you go along to listen, the familiar voice of Uncle George percolates through the Jazz music of 3LO or vice versa.

This useful instrument described by Mr. R. C. Humphrey has been tested by "Wireless Weekly," and as a wavetrapp it is without a doubt very efficient indeed. The Receiver is reasonably cheap to construct and has numerous other uses apart from the one mentioned above.

It may be used as a wavemeter for determining the wavelength of oscillator circuits, receivers, serial systems, and in conjunction with a valve receiver we can determine the wavelength of a transmitting station. Furthermore it may be used as a crystal receiver during the period the A battery is away being charged.

A small 2½ volt lamp is also included, thus enabling the instrument to be used as an absorption meter. The latter feature, of course, will only appeal to those readers who possess transmitters.)

The following parts are required:—

- 1 Bakelite or Radion Panel, 5 x 9 x 1/8 inches.
- 1 .0005 Nelslide condenser.
- 1 4-inch Nelslide dial, with full circle graduation.
- 1 Crystal Detector.
- 1 2½-volt Tungsol lamp (screw in socket type).
- 1 Porcelain socket for same.
- 1 Coil Holder for panel mounting.
- 6 Nickel telephone terminals.
- 1 Rotary switch with 1½ inch arm.
- 3 studs and two stop studs.
- 4 ½ inch nickel plated round head screws.
- 5 f. No. 16 S.W.G. tinned copper wire.
- 1 Cabinet.

Suitable coils, honeycomb or spider web for the required band of wavelengths.

A .0005 mfd. condenser has been chosen in preference to a .001 mfd. because, although a fewer number of coils are required with the latter the

former is capable of finer adjustment due to the fact that it possesses a wavelength range of —

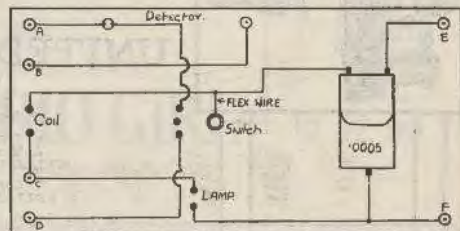
or roughly 0.71 of the larger instrument. Thus, each division on the .0005 mfd. condenser scale will cover 0.71 of the wavelength covered by the .001 mfd. and so insure more accurate tuning. A Nelslide condenser was mentioned in the above list of parts, firstly, in order that definite dimensions could be given to the panel and lastly on account of the full circle graduation of its dial. However, any good make of condenser will do provided that it is rigid and smooth in action.

The aerial and earth terminals should only be used when the wavemeter is employed in the capacity of a receiver or wavetrapp. The two top left hand terminals are for the phone connections and the circuit tester is connected up to the two bottom right hand terminals, when the instrument is used as a tuned buzzer.

The three positions of the rotary switch reading from top to bottom are: Receive, absorb, and excite.

Fig. 1 shows a wiring diagram of the circuit.

No difficulty will be experienced in making out the panel provided that the layout shown in Fig. 1 is followed. The .0005 mfd. condenser requires 3 holes for mounting and one for the passage of the shaft. The positions of these holes are found as follows: Mark the exact position of the centre of the condenser dial (this is 2½ inches from the sides and 2½ from the end of the panel) and bore a hole just large enough to take the condenser shaft. The three fixing screw heads are



Centralab

CENTRAL RADIO  LABORATORIES

Radio Parts that Last!

The finest elements of control in Radio yet manufactured in the world.

The UNITED DISTRIBUTORS LTD. have followed the example of all the leading designers and Set manufacturers of America by discontinuing entirely the use of the various types of the well-known Allen Bradley line, and using only in their Sets the CENTRALAB Control.

This should be sufficient proof to every Radio manufacturer and dealer in Australia of the essential quality and superiority of the various CENTRALAB UNITS over every other kind of Radio control.

For smooth action, minutest variation of control, and durability they are unsurpassable.

CENTRALAB FILAMENT RHEOSTAT.

The CENTRALAB RHEOSTAT has a resistance element of large circumference, so that a smooth and gradual variation is obtained. Hence the CENTRALAB RHEOSTAT is highly satisfactory for controlling detector tubes.

Because of the efficient radiation of heat achieved by the CENTRALAB construction, as many as eight $\frac{1}{2}$ amp. valves may be controlled by one Rheostat. The CENTRALAB RHEOSTAT is specially constructed throughout to resist high temperatures.

It is a one hole mounting—easily fixed on the panel—nickel finish—with KURZ KASCH genuine Bakelite engraved arrow knob.

RETAIL PRICES:

6 ohm	9/-
30 ohm	9/-

THE CENTRALAB ADJUSTABLE GRID LEAK.

THE CENTRALAB ADJUSTABLE GRID LEAK enables you to get that correct grid potential quickly and accurately, and to tune your Set sharper.

THE CENTRALAB GRID LEAK is not of the out-of-date pencil-mark type, but is built with a permanent resistor strip, impregnated with a high resistance compound of tested permanence. The current leaks along this strip, the amount being accurately regulated by adjusting the area of contact of the strip with a curved phosphor bronze spring that is held in place by a compression block. The adjustment is controlled by the operating knob. The entire construction is of the usual CENTRALAB sturdiness.

The distance between the centres of the binding posts on the CENTRALAB leak is $3\frac{1}{2}$ inches—just right for mounting a standard grid condenser. Purchase them with or without condenser, as you desire.

RETAIL PRICES:

No. 106 (without Condenser)	9/-
No. 107 (with Grid Condenser)	11/6

AT ALL RADIO DEALERS.

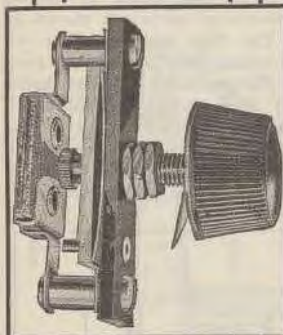
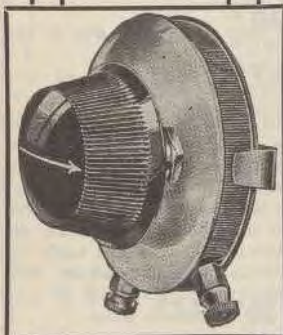
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If your dealer cannot supply, write giving his name and address. When he knows what they are like, he will stock them.



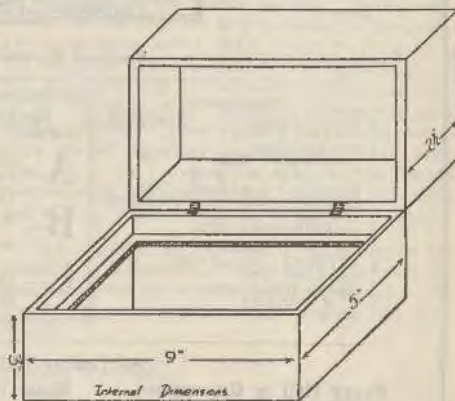
now smeared with paint or any similar substitute and the condenser then carefully lowered until the three screws touch the panel. On removing the condenser, three blobs of paint will mark the positions of the fixing holes, the centres of which are then punched and bored. The three fixing holes must then be countersunk to allow the screw heads to lie flush on the panel, and finally the shaft hole must be enlarged sufficiently to allow 1/16 inch clearance all round the shaft. It is here necessary to add that when marking the position of these holes, the condenser should be so lowered that its length is perpendicular to the longitudinal axis of the panel as this will considerably shorten the wiring. The wiring is done with No. 16 gauge tinned copper wire excepting one small lead which connects the switch arm to the coil and condenser (Fig. 2). This connection should consist of bell flex in order to allow the switch arm to rotate. Both fixed and moving plates of the Nelslide condenser are provided with two soldering lugs and this may be used to advantage by wiring the condenser as shown in the wiring diagram. The cabinet, the internal dimensions of which measure 9 x 5 x 5½ inches is shown in Fig. 2. A wooden ledge having a square section of ½ inch is nailed round the inside of the cabinet at about 3/8 inch from the top. The panel will be screwed down to this ledge by means of four nickel plated screws.

In the present instance a very neat finish was given to the cabinet by polishing it with ordinary French polish (methylated spirits and shellac), to which had been added sufficient nigrosine to render the mixture a dead black. The first coating was applied with a brush and when perfectly hard, this was rubbed over very lightly with used up glass paper. The final coating was applied with a linen pad such as French polishers use. The result is a dull smooth ebony finish far superior to the ordinary varnish or French polish. This "trade secret" was given to me personally by 2JR free of charge, and he states that for the small cost of one shilling you can buy sufficient nigrosine to stain the whole of Australia black.

The calibration of this instrument may be carried out by any reliable firm or person who undertakes this kind of work, or it may be done by means of another wavemeter whose calibration is known to be accurate. Basket coils, wound with No. 16 or 18 d.c.c. wire will be found suitable for wavelengths up to 200 metres above which honeycomb coils will be more convenient. The wavelength band covered by any one coil should overlap the bands covered by those coils immediately above and beneath it, and it should be unnecessary to add that all coils which have been calibrated for use with this wavemeter should be specially marked and used for no other purpose whatsoever. Four basket coils wound on Grodan formers will be required for wavelengths between 15 and 200 metres and these should consist of 3, 5, 9, and 15 turns respectively. The coils should be wound sufficiently taut to prevent any subsequent movement in the turns after the calibration has been done.

When using this instrument for reception, the aerial and earth leads are connected to the terminals E and F and the phones to the terminals B and C.

For use as a wave-trap, all external leads



THE PLACE:

The
Conservatorium



THE SHOW:

A FUTURIST MUSICAL COMEDY

THE RADIO GIRL

PLAN AND TICKETS AT NICHOLSON'S

3/3 (Reserved) and 2/-

THE DATE:

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DRY CELLS FOR EVERY PURPOSE

ALWAYS ASK FOR

Diamond Radio Batteries

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TELEPHONE CELLS.

TELEGRAPH BATTERIES.

"Cost
More
To
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"Cost
Less
To
Operate."

"A Radio Set is
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Battery."

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Retailers:		B-45 "Large Type" 20/0		MICK SIMMONS LTD.	
ANTHONY HORDEHNS'		C-4.5 "Bison" 2/9		MARK FOYS LTD.	
FARMERS LTD.		C-4.5 "L'gn. Special" 12/0		DAVID JONES	
GRACE BROS. LTD.		C-6.0 "Ignite" 15/0		ECONOMIC RADIO CO.	
E. B. CULLEN.				HOWELL'S WIRELESS EX.	
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1.5 Volt Buzzer.
High Amperage.
35 amps Sht. Circuit

Manufactured by

**WIDDIS DIAMOND DRY CELLS
PTY. LTD.,**

West Melbourne, Vict.

should be disconnected and the switch placed on the centre stud. By the aid of the calibrated chart, a coil possessing a wavelength band including the wavelength of the station it is desired to eliminate, is chosen and inserted into the coil plug. The wavemeter is now so placed that this coil is in inductive relationship with the aerial inductance of the receiver and the intruding signals tuned out in the usual manner.

The switch is kept on the centre stud when the instrument is used as an absorption meter and in this case the receiver is placed in close proximity with the transmitter, the actual distance depending on the power of the latter. The condenser dial is now slowly revolved until the lamp flashes up. This is very critical and care should be taken to approach the instrument cautiously especially if the transmitter is a powerful one, or it will be a case of "goodbye lamp." The resonance peak is indicated by the maximum brilliancy of the lamp and the readings taken accordingly.

The following procedure is adopted for ascertaining the wavelength of a receiver or a closed oscillatory circuit. In the first case, the condenser dial of the wavemeter is set at the desired value and either a buzzer and battery or else the two front left hand terminals of the "circuit tester" are connected up to the terminals C and D of the wavemeter. The buzzer is now put into operation and the receiver tuned until the buzzer note is loudest.

For determining the natural wavelength of any oscillatory circuit, the circuit tester must be connected up to the two condenser terminals of the oscillatory circuit. The buzzer is then started and the wavemeter, with the switch on "receive" and the headphones connected to terminals A and B is brought into close proximity of the oscillatory circuit and then tuned for loudest signals.

It would take up too much space to enumerate the many uses this instrument may be put to, most of which are probably known to the reader. Suffice to say, an instrument incorporating so many useful features should find a soft corner in the hearts of all those who are interested in radio.

You can have "Wireless Weekly"
mailed direct to your home for
twelve months for ———— 13/-.
—————

SAFETY FIRST

Quite recently we received a letter from a country reader of "Wireless Weekly," stating that he had had some difficulty in the construction of a Super Heterodyne. He went on to say that he had burnt out two lots of nine valves. For the benefit of other readers who may have been somewhat scared regarding this reader's statement, we are going to explain just how this accident happened. No one minds replacing valves that suffer from old age, but it is very disheartening to discover that £8 has gone up in smoke due to a little carelessness or lack of knowledge.

The connections of the ordinary type of oscillator unit used in super heterodyne hook-ups are all more or less the same, although there may be a few variations of the actual wiring. In each case, however, the negative B connections must be linked to the A battery. Whether it is linked to the positive or negative of the A battery makes no difference to the actual operation of the oscillator. If the negative B is connected to the positive A, however, and a short circuit takes place in the oscillator tuning condenser, the full voltage of the B battery will be impressed on the filaments of all the valves, with the drastic results our reader has quoted. Most variable condensers nowadays are of excellent quality, but at the same time, it is far too risky to trust to the sturdy workmanship (or accidentally, shorting the fixed and moving plates), when the remedy is so simple.

By coupling the negative B connection to the negative A connection, the B battery would be short circuited by a defective condenser, but the current cannot possibly flow through the filaments.

Another Warning.

Where regenerative loops are used by means of centre tap and a small midget condenser, the filaments of the valves are again in great danger. If the condenser gets out of order, or the plates are shorted, the full plate voltage will again be applied to the filaments. To obviate this, if a .006 fixed condenser is placed in series with the midget it will have no effect on the variation or in any way effect the results, but will safely block the H.T. current passing through the filaments in the possible event of the fixed and moving plates of the midget condenser becoming shorted.



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Combined Earthing Switch, Lightning Arrester, and Lead-in Tube.

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AND

THE IGRANIC SUPERSONIC HETERODYNE RECEIVER OUTFITS

The talk of two hemispheres

With the additional items enumerated above, the famous Igranic range is now the most comprehensive selection of radio parts and accessories ever offered to the public. And the finest quality that British skill and craftsmanship can produce.

These new goods have never before been offered on the Australian market and already the first shipment has been practically sold out. Don't start on that better receiver until you have inspected what IGRANIC offers.

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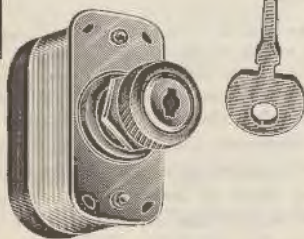
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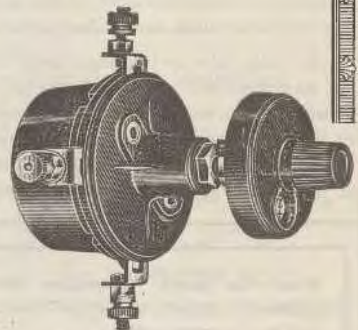
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The Radioloc—a novel dual purpose switch for master control of filament circuits, and for preventing unauthorised persons from using your Radio receiver. PRICE 4/6.



The Variable Grid Leak—Provides for smooth and continuous variation of resistance from 0.5 megohms. Exceptionally Reliable and constant. PRICE . . 7/6.

Queries which Puzzle Every Beginner

By Wireless Weekly

(Editor's Note: A few of the general Queries met with by owners of Broadcast Receivers will be dealt with each week. In this way readers will be able to obviate their own little difficulties and at the same time get a very fair knowledge of radio without having to study the more difficult technical articles. Readers are requested to send along any Queries which are not dealt with in these pages.)

(1) Why do crystals lose their sensitiveness after a few week's use?

A. No one knows for a certainty. It is probably because a thin film of dirt or grease accumulates on the surface of the crystal. We all know, for example, that handling the surface of the crystal tends to destroy its activity, doubtless because of the tiny smudge of grease which the fingers leave behind. An occasional washing of the crystal with pure alcohol will frequently renew its activity.

(2) The two tuning coils of a receiver are not joined electrically, but the receiver works O.K. How can this be?

A. This query often puzzles beginners. The circuits are not connected by actual wire as electric light circuits are. The connection is made by means of the surrounding ether. The electric impulses received in the primary circuit set up ether waves around the wires and coils of that circuit. These waves produce corresponding electric impulses in the secondary circuit. Compare it with a broadcasting station, the only connection between the transmitter and the receiver being through the ether.

(3) Is it possible to repair a storage battery that has been damaged by neglect and is badly sulphated?

A. Yes: First pour out the old sulphuric acid, then thoroughly wash out the battery with distilled water. Keep washing until no more dirt can be obtained. Next mix up sufficient caustic soda in distilled water to fill the cells level with the top of the plates. (For a 6-volt battery up to a 60-amp. size a piece of caustic soda about the size of a shilling is O.K.; for larger batteries a little more is required.) Now charge the battery slowly with this solution. If you haven't a rectifier of your own, take it to the nearest service charging station, and request them to charge it slowly and carefully. After the long slow charge

is completed, the battery should again be washed out with distilled water, when the acid of the correct density should be poured in the cells level with the top of the plates.

There is no advantage in filling the container up to the top. The battery should again be slowly charged after which it may be discharged on the actual receiver. Continue to charge and discharge slowly until all signs of sulphation have disappeared, and the plates are a good healthy looking colour, viz., positive plate, chocolate brown, negative plate, a slate coloured grey.

(4) Does the gassing of an accumulator indicate that it is fully charged?

A. Unless you are charging your battery at a rate far below the correct charging rate, gassing will start considerably before the battery has been fully charged. The gassing of the battery, then, cannot be used even as a guide that it is approximately charged. The best and only method of being sure is to read the density of the sulphuric acid. At full charge, the specific gravity reading shown by the hydrometer should be between 1260 and 1290. Those of our readers who have been in the habit of taking their batteries off charge immediately they begin to gas are in for an agreeable surprise when they purchase an hydrometer, and use it correctly. Every owner of an accumulator, whether he charges his own battery or not, should have one of these useful instruments. Then he can verify for himself that the battery has been charged correctly at the service station.

How to use a Hydrometer.

The float is really the indicator. To test the battery, squeeze the bulb and insert the rubber tube in the electrolyte (liquid in the accumulator). Draw up sufficient liquid so that the indicator floats freely. The lines on the float indicate the density and also the condition of the accumulator. When the lines marked 1260 to 1280 on the float is even with the top of the liquid the battery is fully charged. At 1200 half charged, and at 1150 it is entirely discharged and should be charged up immediately. After the test is made the solution should be put back into the cell or cells and the rubber tube washed with water to prevent the acid rotting the rubber.

(5) Why is it necessary to place an aerial at right angles to electric power mains?

BURGESS

RADIO BATTERIES



No. 6 "A" 1.5 volts "A"
 Size—2½ inches diameter, 6 inches high,
 1 cell, weight 2 pounds.
 Brass binding posts and nuts.

Designed especially for service on the "A" or filament circuit of dry cell valves. Will give more service than an ordinary No. 6 ignition battery, at approximately the same cost, and has a rapid recovery to high voltage after short periods of rest, with practically no voltage loss when not in use.

Made only in single cell units, which makes possible convenient combinations for all types of dry cell tubes and eliminates the hazard and expense of multiple cell units.

This battery is also usable for general purpose service after its voltage has dropped below the operating valve requirement.

No. 2306 4.5 volts "B"



HORIZONTAL TYPE.

Size—Length, 7½ in.; width, 6½ in.; height, 3 in.; 30 cells. Weight 9½ lbs., 10 oz.
 Brass posts, contacts and nuts at taps to give 1.5, 3, 4.5, 6, 7.5, 9, 10.5, 12, 13.5, 15, 16.5, 18, 19.5, 21, 22.5, and 45 volts from the negative. Double voltage battery equivalent to 2 No. 2156 wired in series. Shelf life over one year.

No. 5360 1.5 volts "O"



Size—Length, 2 7/16 in.; width, 1 3/16 in.; height, 2½ in. 3 cells. Weight, 4 oz.

Flexible wire terminals, which, with small size, makes convenient connections possible in the usual set not already provided with a "O" battery. Cells individually insulated, casing waterproofed, shelf life over eight months.

No. 2370 4.5 volts "C"



Size—Length, 4 in.; width, 1½ in.; height, 3 in. Three cells. Weight, 1 pound.

Brass posts, contacts and nuts, to give 1.5, 3.0 and 4.5 volts. Largest size cells. A popular battery because of its size and taps. Shelf life over one year. Can also be used as an "A" battery on some tubes.

No. 5540 7½ volts "C"



Size—Length, 4 in.; width, 2 in.; height, 2½ in. 5 cells. Weight, 6 ounces.

Brass posts, contacts and nuts and one flexible wire terminal to give 1.5, 3.0, 4.5, 6.0 and 7.5 volts. For use in special cases where high "C" voltage is necessary. Shelf life over eight months.

POWER

FIFTEEN SEPARATE TYPES AND SIZES

HARMONY

ENDURANCE

ALL DEALERS WILL SUPPLY ILLUSTRATED CATALOGUE.

TRADE ENQUIRIES ONLY TO

BURGESS BATTERY COMPANY: 280 Castlereagh St., Sydney, 25-27 Queens Bridge St., Melbourne,
 26 Leigh St., Adelaide.

All power mains, especially those carrying very high voltages, act as a sort of transmitting aerial. Energy is radiated in much the same way as it is from a broadcasting station. If your aerial is placed at right angles to the power wires the energy picked up will be considerably less than it would be if it ran parallel. For this reason keep your aerial wires as far away from all power mains as possible. This will help you in obtaining clearer and louder reception.

(6) How can I find which is the positive and negative of my battery?

A. Frequently this question presents itself, especially if a battery is old and the distinguishing colours of the painted terminals have worn off. If a voltmeter is available the solution is quickly solved as the terminals of the voltmeter are always marked and the positive of the voltmeter must go to the positive of the battery before a reading can be obtained. If no instrument is available a reliable method is to attach a piece of wire to either terminals and dip the two ends into water, bubbles will rise from the negative. Prepared paper may be obtained, such that the two connections touched to the paper will result in a brown stain at the negative pole.

Even if none of the above are available, touching the two ends of a freshly cut potato will result in a stain where the negative wire comes into contact with the vegetable.

(7) What is the difference between alternating current and direct current?

A.: The term direct current means that the voltage or pressure is constant. The only perfect D.C. is, however, that supplied by batteries. Where the source is a generator, as on country lighting circuits, etc., there is considerable fluctuation, because all generators are in reality alternating generators and a means of rectification is used on the same machine called the commutator. This results in some fluctuation of the voltage given off. The more segments and windings the commutator has, the smaller and more rapid will the fluctuations be. The ordinary type of voltmeter, however, will show a steady reading when placed across the mains of any D.C. generator.

If we place a hot wire voltmeter across the mains of an alternating current, and measure what we are pleased to call its voltage, we don't actually read the correct voltage at any instant of time. What we really measure is a quantity of pressure known as effective voltage. The actual voltage at any instant may be zero or it may be a maximum, as it passes through each point 120 times a second.

There are three values of voltage of interest A.C.: First the maximum voltage, second, the average voltage, and third, the effective voltage indicated by the instruments.

We get the effective values of current by determining what alternating current has the same heating effect as an ampere D.C. This value is the effective value of current and effective voltage corresponding to it. The average value of voltage is, of course, zero, as both halves of the wave are alike and opposite. We take for this value, however, the average value during a half cycle this is equal to .636 times the maximum value. That is, the maximum is a little over one and a half times the average rule. The effective value is obtained by multiplying the average by a constant known factor of the A.C. alternator. For a sine wave machine the form factor is 1.1, so in this case the effective value is .707 times the maximum. This means that our voltmeter measures only seven-tenths of the maximum voltage, which anything on the circuit withstands.

When A.C. is rectified, therefore, it is possible to get a rectified voltage higher than the A.C. voltmeter actually reads.

FRENCH, SPANISH, ITALIAN, GERMAN.

Day and Evening Tuition. Privately and in Classes.

BEERLITZ CONVERSATIONAL METHOD, without translation and grammatical drudgery. Prospectus on application.

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'Phone: BW 6823.

"Learn Foreign Languages, for in the near future you will be able to 'listen-in' to the whole world through the new fairy—wireless."

MORE JAZZ.

The crowd of ultra-modern wireless fans who insistently cry for more jazz music in broadcasting programmes will be pleased to hear that 3LO Melbourne are negotiating for the services of one of Melbourne's finest jazz bands for regular items each week. Definite particulars are not yet available, but an announcement will be made in a week or so. The advantage of the band which is being secured lies in the fact that its melody will be popular with all classes, all its items being played in a manner which does not sacrifice music to syncopation.

The Voice of the Air

RADIOTRON UV.199.

A SMALL TUBE, BUT A BIG PERFORMER.

The new UV/199 is proving a mighty popular member of the Radiotron family, particularly for Portable Sets.

Battery economy, long life, less activity, are the big points of Radiotron UV.199. If by accident it should be operated at too high a temperature, instead of burning out like other tubes, it becomes inoperative. When it becomes inoperative, it can be brought back to normal operation all over again by disconnecting the "B" Battery and lighting the filament for 20 minutes. For quiet operation, great ruggedness, uniform operation, Radiotron UV.199 is unsurpassed.

Ask for the Radiotron and look for the Seal.

AUSTRALIAN GENERAL ELECTRIC CO. LTD.

C/r Wentworth Avenue & Goulburn St., Sydney;

C/r Queen & Little Collins Sts., Melbourne;

Box 487-H, G.P.O., Brisbane, Q.;

Box 351, G.P.O., Adelaide, S.A.;

Box 8, G.P.O., Newcastle West.

Radiotron Valves

Agents: Engineering Supply Co. of Aust. Ltd., C/r Edward and Charlotte Sts., Brisbane, Q.;

Atkins (W.A.) Ltd., 894 Hay St., Perth, W.A.

Oliver & Oliver Pty. Ltd., Hobart and Launceston, Tas.

As Others See Us

"Hermoin," commenting in the Auckland "Herald" upon Australian Stations, says: The Australian broadcasting stations can be heard clearly in Auckland, and it is probably that owners of valve sets in New Zealand listen to the varied programmes from across the Tasman to a greater extent than to their local broadcasts. A new Australian station, 4QG, Brisbane, is naturally one of the loudest heard here with its power input of 10 kilowatts. It is unfortunate that the modulation of this station is at present extremely poor. This, however, is to be expected, as the transmissions are at present only experimental and it is a real feat of radio engineering to satisfactorily modulate the power being used at 4QG. Perfect broadcast could hardly be expected at present. It is stated that a new studio will be used at 4QG, commencing April 19. By that time the modulation will, no doubt, be satisfactory and the Brisbane station should then be a favoured one by Auckland listeners.

New Zealand listeners will have noted that direct advertisement is permitted from the Australian stations and there is nothing subtle about the methods at the Brisbane station. A visitor to Auckland last week, Mr. Donald Macdonald, consulting engineer to the Australian stations 3AR, 5CL, and 7ZL, informed the writer that advertising from the Australian stations is permitted for two hours out of the twenty-four. This provides a large source of revenue, so that shareholders of the companies controlling the station are receiving good dividends, there being no restrictions as in New Zealand to the dividend payable.

Mr. Macdonald is on his way to visit America for the purpose of investigating broadcasting conditions there. On his return to Australia the power of the broadcasting stations at Adelaide and Hobart will probably be increased. Mr. Macdonald stated that only 10 per cent. of the listeners in Australia live outside a 30-mile radius from one of the broadcasting stations, so that it is apparent that country settlers have not yet been persuaded that broadcasting is of use to them."

MORSE CODE COMPETITION.

We congratulate W. Thomas, Junior, 68 Oxford Street, Paddington, N.S.W. as being the winner of the Morse Code Competition from 2WW on Tuesday, March 23rd. His letter was the first correct solution opened on Monday, March 29th. The word transmitted was:— U Q A Z W S C G D P.



EFFECT OF COLD ON DRY CELLS.

The following is an extract I have made from that interesting publication "With MacMillan to the North Pole," by C. T. Downes.

"It is generally recognised that a low temperature delays the deterioration of a dry cell. If this is true, it is interesting to compare the records of the Burgess Batteries which were used on the Expedition with those that were left in the shelves at Madison.

The Test Batteries which were Burgess type, No. 2156 and which were taken from the same days run as those shipped to Dr. Macmillan, tested as follows:

	Reading April 24th, 1923.	Reading Sept. 17th, 1924.
Expedition Battery ..	23.4 volts	22.7 volts
Shelf Battery ..	23.5 volts	22.7 volts

These data show that the batteries, which were on the shelf at Madison, retained their voltage as well as those which were subjected to the cold. The sustained voltage of the batteries, on the "Bow-doin" then, was due to the inherent strength of the batteries themselves, and not due to external conditions.

The voltage tests of the batteries, which had been in continual use and those which were stored for sixteen months, show a remarkable uniformity and generally high value for their age. It is believed that the large size batteries would have been useful for more than two years."

The advices from America for some time now have indicated that Broadcasting stations run entirely on storage batteries, have been remarkable for their efficiency and general excellence of transmission. By reason of the success of WDAR and WGBS, I understand that the Hartford station owned by the Travellers Insurance Company, is also storage battery equipped. The broadcasting power equipment of the new station consists of 1760 volt plate circuit battery made up of 880 cells of a Philco Diamond Grid Battery designed especially for radio broadcasting, and receiving services. Also a 35 volt filament circuit Philco Battery of 18 cells.

CASH BARGAIN MONTH--March 19 - April 19

New Stocks coming to hand compel us to clear certain lines to make room

TEAR THIS PAGE OUT

Present the page with your order and receive

SPECIAL CASH DISCOUNT

Here is a further list of some of these specials.

**Many Lines Sold Out! Only a few reduced bargains left. BUY EARLY
DON'T FORGET IT ENDS APRIL 19th.**

Switch Arms, 4d. each.
N.P. Terminals, 2½d. each
Rheostats, 30 ohm, with knob, 4/3 each.
Rheostats, 20 ohm, with Bakelite Dial, 6/- each.
Valves, Double Filament, 201A, 5/- each.
Valves, Bright Emmitter, English Base, 5/- each.
Reedy Wound Loose Coupler — Secondary Formers, 1/6 each.
Ebonite Panels for Loose Couplers, 7 x 2½ x 1/8 inches, 6d. each.
Wooden Ends (set of 5), 1/3.
Mars Aerial Wire, 50 per cent. increase signal strength, 12/6.
Low Loss Condensers, .0005, 12/6.
Lightning Arresters, 3/6 & 4/6.
Multi Phone Connector Blocks, 4/-.
Crystal Sets, with crystal and coils, 7/6.
Potentiometers, 400 ohms, 3/3.
Hydrometers, 3/- each.
Bezels, 4d. each.
Harley Adjustable Crystal Detectors, 7/6.
Insulators, ½d., 1d., and 2d.

BOOKS. We have a great selection of real good value in literature from 5d. ↓

HONEYCOMB COILS. MOUNTED.

20 turns	3/6
25 "	4/-
35 "	4/3
50 "	4/6
75 "	4/9
100 "	5/-
150 "	5/6
200 "	

One-bar Wire, 1/- doz. lengths.
Headphones, 18/6 per pair.
Headphones, Baldwin, 38/- per pair.
2 Coil Holders, 1st class job, 9/6.

N.P. Slider and Bar, 3d.
Cardboard Tube Formers 3d. each.
Revelled Edge Baseboards, 6d., 1/-.
Crystal Detectors, Unass., 1/-.
Crystal Detectors, Glass Encl., 1/6.
Catwhisker Brackets, 3d.
Crystal Sets, Pencil, 2/6.
Crystal Sets, Single Coil, 4/6.
Crystal Cups, 2d.
Battery Switches, 2/3.
Ebonite, per sq. in., ½d.
Voltmeters, 0-50 volts, 6/6.
Fixed Condensers from 6d.
Variable Gridleak, 4/-.
Celluloid Strip Coil Mounting, 1½d. per ft.

IRON-CLAD GUARANTEE ON VALVES. When we say a thing is guaranteed we mean it. The Cleartron Valve is guaranteed against faulty manufacture, and so long as the filament will light, we will replace, **FREE OF CHARGE**, any Cleartron Valve that does not function. 17/6 each, and good value at that.

Valve Socket Adapters, American to English, 3/6.
Valve Socket Adapters, English to American, 3/-.

FIXED CONDENSERS. AEROVOX. QUALITY JOB.

.0001, 2/6 each. .004, 3/6 each.
.00013, 2/6 each. .006, 6/- each.
.00025, 2/6 each. .01, 6/6 each.
.00025, with Grid Leak Mounting, 3/- each.
.25 Mfd. By-Pass, 5/6.
.5 Mfd. By-Pass, 6/9.
1 Mfd. By-Pass, 9/6.
Benjamin Brackets for sub-pans, 6/- per pair.
Preferred Midget Variable Condensers, 8/9 each.
Bakelite Grid Leak Mountings, 1/3 each.
Spaghetti, Rubber, 1½d. per foot.
Spaghetti, good quality, 6d. per length.

Dials—2½ins., 10d.
3 ins., 1/3.
4 ins., 2/-.
3½ins., 1/6.

Coil Plugs, 1/4.

Panel Plugs, 1/6.

Coupler Plugs, 1/6.

Extension Handles, 4d.

Variable Condensers—

.001, 5/6.

Jacks—Open Circuit, 2/-

Closed Circuit, 2/6.

Double Circuit, 2/6.

Rember Switch Arms, 8d.

Lead-in Tubes, 3d. & 4d. each.

Spaghetti with Braided Covering in red, blue, green, and black, 8d. per yard.

Loop Aerial Cotton Covered Braided Wire, 3d. yard.
Loop Aerial Silk Covered Wire, 4d. yard.

Loud Speaker Cord, 9d. per yard.
Loud Speaker Cord, Silk, 1/- per yard.

A Battery Cords, Red and Black, 2/3 each.

B Battery Cords, 3 Conductor, 3/6 each.

20 ft. Loud Speaker Cord, with pins, 7/6 each.

A and B Battery Cords, with clips, 7/6 each.

Sparker Cords, 1 ft., 2/6 each.

10 ft. Loud Speaker Cord, with pins, 4/9 each.

5 ft. Phone Cords, 3/3 each.

6 ft. Phone Cords, 3/9 each.

Pigtail Wire Connectors—

3in., 2½d. each.
6 in., 3d. each.
8 in., 3½d. each.
12 in., 4d. each.

Meadon Fixed Dubilier Condensers, .0005, 2/9.

Meadon Fixed Dubilier Condensers, .0008, with grid leak clips, 3/3.

Meadon Fixed Dubilier Condensers, .002, 3/6.

Meadon Fixed Dubilier Condensers, .001, 3/-.

Thorola Audio Transformers, No. 352, 21/-.

Thorola Audio Transformers, No. 351, 20/-.

See next week's issue for a further list of these Specials.
INSPECT OUR WINDOW DISPLAY NOW!

Harringtons LTD

**Wholesalers and Retailers
Photo. and Radio Warehouses**
Sydney 386 George Street
Katoomba Katoomba Street
Melbourne 266 Collins Street
Brisbane 93 Queen Street
Adelaide 10 Rundle Street
Wellington, N.Z. 42 Willis St.
Auckland, N.Z. 140 Queen St.

ON THE AIR

OCEAN BEACH BAND CONCERT.

On Sunday, April 11th, from Station 2BL there will be broadcast a Christian Science Service at 11 a.m. This service is another of the many popular services broadcast by this station and is one which is keenly watched for by the Christian Scientists themselves. At 3.30 p.m. there will be a Band Concert broadcast from the Ocean Beach, at Manly and at 7.45 p.m. a Lecture-Recital by



Miss Dorothy Ewbank, soprano, whose solos and duets with Bryson Taylor, tenor, are a feature of 2FC programmes.

courtesy of the Independent Theosophical Society from the King's Hall. These Lecture-Recitals are keenly appreciated by the listeners-in and the work of the Society is regarded as adding definitely to the cultural life of Sydney. At 8.50 p.m., Miss Leonore Gotsch will be heard in items from her repertoire singing from the Studio.

IRISH SOPRANO.

From the Studio of 2BL on Monday, 12th April, Miss Myrtle Hobbs will be heard in the afternoon and in the evening Miss Nora Hill, the Irish soprano, and Miss Thelma Houston, contralto, will also figure. Miss Hill is making a re-appearance after a protracted absence and the many admirers of her charming Irish voice will be pleased to welcome her back again. On the same evening Mr. Frank Marshall continues his series of

talks on X-Radiation and a new lecturer to 2BL in the person of Mr. Stanley Crittendon will speak on various aspects of photography with particular reference to the use of the camera during the Autumn and Winter seasons.

ENMORE THEATRE

The Enmore Theatre Orchestra is rapidly winning the favor of a much wider audience than those who have the opportunity of hearing it at Enmore since it has been broadcast by 2BL, which will be heard twice on the evening of Tuesday, April 13th. Broadcast by 2BL, on the same evening will be a full description of the boxing engagement at Szarka's Stadium. Mr. Stanley Catlett, singing in conjunction with Broadcasters' Miniature Orchestra, will be heard on the same evening. Mr. H. E. Crabb commences a further series of talks and the vast number of listeners-in who heard Mr. Crabb's previous series of evolution, will look forward to further talks on popular science.



MISS VERA SAVAGE.

Before appearing in the Gilbert and Sullivan productions most of the artists engaged by J. C. Williamson Ltd. to appear in the light operas will be heard through 3LO. Miss Vera Savage is among their number, and she has already been tested successfully for broadcasting. Her stage experience, in spite of her youth, is rather extensive. Important understudy roles in "Sally," "Good Morning, Dearie," and the pantomime "Humpty Dumpty" were played by her before she had been long in theatrical business, and she is regarded as having a particularly bright future.



B.406

A Revolution in Radio Reception!

Read what an Australian Radio Expert says about the B.406

PHILIPS NEW WONDER VALVE

An unsolicited testimonial from a man who sells them:—

‘We have to thank you for the prompt delivery of our order for Philips B.406 Valves. After testing six, selected haphazard, we feel compelled to let you know the amount of enthusiasm they have raised.

‘We were considerably astonished to find that by using the B.406 on our standard 3 valve set, volume was raised about 30 per cent. over any other valve.’ But the writer’s greatest satisfaction was the beautiful tone, for, in spite of the volume, both speech and music maintain a clarity that is astonishing, being devoid of all distortion. Of course, all valves have been tested in conjunction with high-grade apparatus, and therefore the comparison between the B.406 and other valves was a fair one.

Of All
Dealers





Frank Leonard, who is a well-known English entertainer, is one of the most popular artists heard from 2FC.

"DRAKE GOES WEST."

Miss Freedman and Mr. Bert Trumble are two delightful sketch artists who figure on Broadcasters' programmes and they will be presenting a sketch on April 14th, when Mr. Norman Janson will also figure on the same programme. Mr. Norman Janson possesses a beautiful baritone voice



Mr. James Brash is the conductor of the Roseville Operatic Society, which produced "Going Up" at the Dreadnought Theatre, Chatswood, on the 17th and 18th March last. Mr. Brash is also the organist and conductor of the Highland Society and organiser of the Metropolitan Quartette. His performances from 2FC are much appreciated.



'CELLO PLAYER.

The youthful 'cellist, Miss Tasma Tiernan, who is a pupil of Mr. Alberto Zeiman, is broadcasting solos from 3LO, and is also a member of the Studio Orchestra. Miss Tiernan first displayed her ability by winning the Ballarat competition for the champion solo in 1922, following upon which she joined up with the Melbourne Symphony Orchestra, also winning recognition through her association with the British Musical Society Quartette. By power of her own capabilities, Miss Tiernan is one of the most popular artists at 3LO.

and revels in dramatic numbers with thrilling effects and smashing climaxes. His singing of "Drake Goes West" invariably brings his audiences to their feet. The Foreign Affairs talk which invariably excites a considerable amount of interest will be delivered by Mr. J. M. Prentice and the usual telephonic communications will be simultaneously broadcast and replied to.

HOYT'S IMPERIAL ORCHESTRA

Thursday, April 15th, introduces once again that delightful combination of players under the direction of Mr. Lionel Hart at Hoyt's Picture Theatre from 2BL. This Orchestra is known as Hoyt's Imperial Orchestra and lives up to its name. Mr. Hart's arrangements of incidental music to the pictures being displayed are invariably good taste and models of suitability and consequently the listeners-in can almost form some conception of the picture that is being screened by listening to the orchestra. Miss Millie Hughes and Mr. Ray Beatty in solos and duet numbers figure on the same programme and these always acceptable artists are thoroughly well loved by the listeners-in throughout Australia. Mr. Ray Beatty possesses that rarest of all voices, the basso antante which combines breadth and volume with a beautiful

Continued on page 23, bottom of col. 1

THE BEST BY TEST — DIAMOND DRY BATTERIES

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That Interfering Station with an Economic Wave Trap

Let us show you how to build your own with the parts we supply

THIS IS WHAT YOU WILL REQUIRE.

	£	s.	d.		
1 Bakelite panel, 6 x 5 x 1/8 inches	1	6		Large Double Phone Terminals: Each	5
1 Arcraft Metal End Variable condenser, .0005	9	6		Phone Terminals: Ordinary N. Plated, doz.	1 9
1 3 inch Dial 1/5 & panel marker 3d.	1	8		Binding Posts: Non-removable tops N.P., doz.	2 6
2 Double N.P. Terminals, 5d.		10		Binding Posts: Black Tops, each	3
1 3 1/2 x 6 inch former		5		Vernier Adjusters: Friction type	1 2
1 lb. reel, 22 d.c.c. Wire	2	5		Rheostats: 30 or 6 ohm High grade Ajax	2 1
Total	16	4		Spring Aerials: For indoor use	5 9
<p>Also include these QUALITY PARTS in your next set</p>					
Dull Emitter Valves: "Fotos" 3 volts, .06 English base	8	6		Terminal Boards: Engraved, with 7 Binding Posts	2 6
Sockets: English Pattern base mounting	1	3		Dials: 1 inch, 1/-; 3 inch, 1/5; 4 inch Potentiometers: 400 ohm, Ajax	2 4
Sockets: Metal Shell Standard, 1/11; 199 type	1	6		Jacks: Improved Fantail pattern, Double 2/4; Single	3 0
Radex 199 Valves: New Shipment	9	9		Jacks: Improved Non-Solder type, Double 4/-; Single	1 9
Certified Low Loss Condensers: .0005	12	0		Plugs: Take two pairs phones	2 6
Midget Low Loss Condensers: 5 plate Engraved Binding Posts: Sets on cards, per set	3	9		Multiplug: Take up to six pairs phones	1 9
Engraved Binding Posts: sold Separately, each	1	9		Aerial Earthing Switches: Porcelain Base	3 3
		4		Push Pull Transformers: The Crescent, pair	1 11
				Battery Testers: Ayambee Hydrometers	1 15 0
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COLUMBIA THREE COIL HOLDERS (inside mounting)

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THE NEW 2FC

OFFICIAL OPENING

The new broadcasting station of Farmer and Company Ltd., at Pennant Hills, was opened on March 29th by Mr. W. M. Hughes, M.P., in the presence of a representative gathering. At 3.30 o'clock, Mr. George Wright, managing director of Farmer and Co. Ltd., introduced Mr. Hughes to listeners-in, and a few minutes later, after a silence of 20 seconds, to allow for the change over, Mr. Hughes turned the switch, which changed the service from the station at Willoughby to the new one at Pennant Hills, and officially declared the station open.

Influence for Peace.

Mr. Hughes, in declaring the station open, said they lived in an age of progress, but the most wonderful, the most inspiring evidence of this progress was wireless telephony. It was literally a miracle. Wireless had revolutionised, was revolutionising, and would continue to revolutionise the whole world. Wireless had not only revolutionised the relations between men and between nations, but it would be the most powerful influence for abolishing war.

Continued from page 21

ful quality of almost lyric sweetness. Mr. Reg. Harrison also figures on the programme.

THE UKULELE.

Friday, April 16th, introduces Miss Nora Mack and other artists singing from the Studio of 2BL. The Ahad Due playing ukulele and other stringed instruments figure on 2BL's programme for the 17th inst. Deal and Maynard present a Musical Sketch of a particularly delightful nature.

CHILDREN'S SESSION.

Commencing next Saturday night the Children's Session from 2FC will start at 6 p.m. and continue until 6.45 p.m. instead of the usual times, to allow of the inclusion in the programme of orchestral items from 6.45 to 7.15 p.m., after which the usual evening news and commercial intelligence will be given.

MR. FRANK RUSSELL TO BROADCAST.

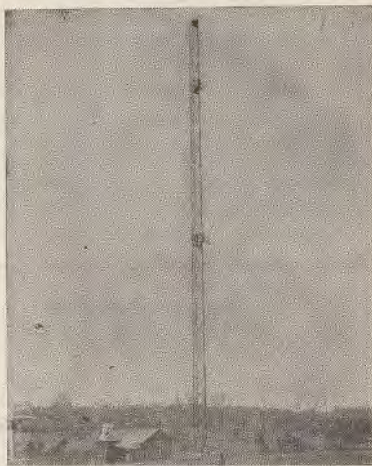
Frank Russell is known in the literary world as an author of a very successful novel — "The Ashes of Achievement." He is a well-known identity at 3LO, Melbourne and during his short stay in Sydney he has arranged to give through 2FC a series of talks entitled "Out of the Hurly Burly." These will be given on the 1st, 8th, and 14th April, 1926.

Mr. Hughes, referring to the manufacture of the apparatus, congratulated Amalgamated Wireless (Australasia), Limited, and also Farmer and Company, on their enterprise.

Wavelength Controversy.

Mr. George Wright, managing director of Farmer and Company, Limited, in a speech, said the opening of this station marked a definite stage in the development of broadcasting in Australia. When the old station at Willoughby was opened their programme covered about five hours daily. They were now giving five sessions each day, with an actual running time on the air of over ten hours per day, or nearly 3600 hours in the year, when allowance was made for the shorter period of Sunday sessions.

For many months the question of 2FC's wavelength had been discussed in the Press from one end of Australia to the other, and particularly New South Wales, and various statements had been made by unauthorised persons that the directors had decided to bring the wavelength down to somewhere below 600 metres where they obtained their information from he did not know, but no such decision had been arrived at. The present wavelength had proved to be the most efficient for daylight service in Australia, and while on occasions the night transmission had shown a slight varia-



The 400 feet mast of the new Station 2FC.

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Wondertone Heavy Duty Accumulators

Any of 6 volt, 120 capacity Hour Capacity, 1000 or 250000 Grammes and delivered in Acid-proof box, with strong carrying straps.



85/-
Charged ready
for use.

95/-
Charged ready
for use.

Illustration of "Wondertone" Heavy Duty Accumulator.

G.A.V. ACCUMULATORS.

2 volt, 40 ampere Hour	20/-
4 volt, 40 ampere Hour	40/-
6 volt, 40 ampere Hour	60/-
4 volt, 60 ampere Hour	47/-
6 volt, 60 ampere Hour	70/-
4 volt, 80 ampere Hour	56/-
6 volt, 80 ampere Hour	84/-

Distilled water for Accumulators, 1/- per bottle.

We employ a staff of Battery Experts to repair, rebuild and recharge all makes of Batteries. Satisfaction guaranteed.

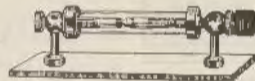
We pay carriage throughout N.S.W. on all Radio Goods other than Accumulators, Cabinets, Receiving Sets, Batteries, Loud Speakers, Books and Publications, Valves, Aerial and Winding Wires and goods sent by V.P. Parcel Post.

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have been obtained in Australia with the famous

"Lion Micro" Permanent Detector

Another shipment to land of this famous Detector. There has been such a phenomenal demand for the Lion Micro that previous shipments were sold within a few weeks after arrival. We have received many letters stating the praises of this wonderful detector which startled the Radio world. The Lion Micro Permanent Mineral contains the Lion King combination, employing the great South American Semi Transparent Rare Permanent mineral crystal (Göthenium) and the other silver crystal (Tellurium), discovered in 1923.



PRICE:
5/6

PRICE:
6/8

Illustration of Lion Micro Detector (actual size).

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NO CATSWHISKER

NO MORE LOST CONCERTS

NO ADJUSTMENTS

OUR GUARANTEE. We guarantee every article you buy from us to be satisfactory in every detail. If, for any reason whatever you are dissatisfied with any article purchased from us, return same, with all transportation charges you have paid; we will then exchange for exactly what you want, or we will refund your money.

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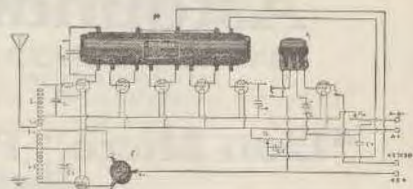
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An extremely efficient long wave
Radio Frequency Amplifier. Unit
for Superheterodyne construction
includes 3 iron core and 1 air
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Simplifies wiring and adds to
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tion owing to deflections in the electric current supplied to the station, it was confidently expected that the new and higher power station would give a service that would meet all possible demands in the highest manner. If it did not do so then the directors would not hesitate to take whatever action was necessary to bring about the desired improvement.

The controversy that had raged around short and long wavelengths had in many instances been mainly influenced by commercial reasons, and the reason that Farmer and Company had not reduced the present wavelength of 1100 metres had been the directors' desire to give a service best suited for Australian conditions, and not for any local advantage that might be gained. The man on the land represented the most important section of the State, and to weaken his service would be contrary to the wishes, he was sure, of city listeners-in, and certainly opposed to the Federal Government's idea of giving the man on the land the finest news and market service possible. Every new invention in the wireless world, he added, would have the company's engineers, attention.

The first broadcast station license in the Commonwealth, he proceeded, was granted to Farmer and Company, Limited. It was License No. 1, and dated August 27, 1923, and from then on until December 5th, tests were made daily. The station was officially opened on December 5th, 1923 for the purpose of providing a daily service under the conditions laid down by the Federal Government. Wiloughby was a temporary station only; it was never intended that it should be the permanent location.

Mr. Wright referred to in conclusion to the individual "who is mean enough to listen-in without a license." "It costs the broadcasting companies," he added, "many thousands to maintain the costly services, and in my opinion, it is just as much a crime to avoid this obligation as it is to commit some petty theft. I understand the Federal Government officials are moving strongly against such people."

He paid a tribute to J. C. Williamson Ltd., "Sydney Morning Herald," Messrs. J and N. Tait, "Evening News," the cable companies, and Dalgety and Company Ltd., for their valuable assistance, and Amalgamated Wireless for their advice and ever-ready help.

Mr. E. T. Fisk, managing director of Amalgamated Wireless, said it was due to the efforts of Mr. W. M. Hughes that Australia was saved from a system of Empire communication that was quite ineffective. In regard to the new 2FC station, he congratulated those responsible for it. He was proud to say the station had been built by Aus-

tralian engineers throughout. "On my recent visit to England and America," said Mr. Fisk, "I went to all the leading engineers and experts, but they told me little that was not already known here." (Applause.) "The rest of the world was jealous of Australian conditions of broadcasting," he added, for nowhere else did the companies have the co-operation of theatrical people, as they did here; and without an entertainment side broadcasting could not progress. Thanks were also due to the radio inspectors and different electrical companies. The actual cost of a license to a listener was one penny per day—a sum which should be begrudged by no one. The mast of 2FC at Pennant Hills, he said, was the highest in Australia. The rated powers of five kilowatts with 20 as the actual "input," was second only to that of the Daventry station in England.

WELLINGTON BROADCASTING.

Improvements of the broadcasts from the Wellington station, 2YK, are now being effected. The Wellington City Council has granted permission for the broadcasting of the organ recitals at the Wellington Town Hall. A microphone installation being available, the land line has been laid and preliminary tests are being conducted. In addition a line has been installed between the studio and the Wellington Terrace Congregational Church for the transmission of Sunday services. It is stated also that one of the Wellington cabarets is to be linked with the broadcasting studio.

It must be gratifying to Wellington listeners, who have in the past been in a most unfortunate position as regards local broadcasts, that improved transmissions can now be expected. It would seem that Auckland listeners must experience a lowering of the standards of their broadcasts, while the services elsewhere in New Zealand are being improved to a considerable extent.

For some time past 2YK has been transmitting with a wavelength of about 320 metres, and as a consequence listeners-in in the vicinity of Wellington were unable to tune in the Auckland station, 1YA. Accordingly the wavelength of 2YK has been changed and the broadcasts are now on a wavelength of about 290 metres.

Enquiries at 2FC reveal the fact that scores of messages were received on Tuesday, March 30th, from all parts of the country, and near-by suburbs, commenting on the excellent transmission and general improvement. One listener who is resident 200 yards from 2BL Station at Coogee, reports that for the first time he could successfully pick up 2FC programmes without interference from 2BL.

The REAL Pure tone Valve



**GIVES EVERY
NOTE IT'S
TRUE VALUE**

DESIGNED to give pure and strong amplification in all L.F. stages. Produces abundant volume free from distortion and will operate all loud speakers.

MULLARD Double Green Ring VALVES

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Advertisement of the Mullard Wireless Service Co. Ltd., Balham, London, S.W. 12, ENGLAND (Arks B2)

FROM HERE AND THERE

THE ALL AUSTRALIAN RECEIVER.

This receiver has been constructed by many readers with excellent results which speak for the efficiency of the circuit and the simplicity of the constructional details. One reader at Nedlands, Western Australia, writes that he is able to tune in 3LO and 5CL easily and consistently at good loud speaker strength whilst Mr. Humphries of Nevertire states that the volume and range on the speaker is nothing short of remarkable. This gentleman goes on to say that of all the four and five valve sets he has tested out, with and without radio frequency, none could compare with the three valve All-Australian. Tuning is simplicity itself and at night time 2KY, 2BL, 3LO, 4QG, 5CL, 5DN, and 3AR come through with tremendous volume, with very little interference from static. Mr. Humphries mentions that by adding a jack off the first audio stage and with the addition of a potentiometer, a wonderful improvement was noticeable. The back of panel wiring view and photos together with the simplicity of constructional data, makes this receiver ideal for the beginner. The All-Australian receiver was described in "W.W." February 19th.

TOO LOUD.

The aftermath of the preliminary tests of the new Queensland broadcasting station, 4QG, is a lively argument being carried on per medium of the daily papers on the question of the power used. Those who live in the immediate vicinity of 4QG and thus find difficulty in cutting out the local station, are of the opinion that it should be operating on only one third of its present power. These people are, unfortunately, not taking into consideration the country broadcast listener and the crystal-set owner who are licensed to listen-in. The Brisbane station is providing a very fine and up-to-date service for broadcast listeners in Queensland, which is worth a lot of boosting. Those who must listen in to interstate stations are advised to build a wave-trap or, alternatively, to listen in to them after 10 p.m.

HEARD IN AMERICA.

It is evident that 2BL's range is increasing in proportion to his popularity. According to reports from America, our Sydney station is becoming quite a feature of broadcast reception in that country.

The last mail contained letters from Warsaw,

Corona, New York State; from San Pedro, Terminal Island, San Francisco, and other points where items were logged and actual reception took place.

A certain boxing match which was broadcast from Szarka's Olympia one Monday night was received in Apia on the Sunday night, the difference in latitude and longitude allowing a difference of about twelve hours in time. A report from a B.C.L. in Apia remarked that the boxing match arrived at the end of a church service from California and went on to say that it was not often that one had the pleasure of a sermon and a boxing match on the same night.

HEARD ON CRYSTODYNE.

Messrs. Albert and Allan Lanes, of Concord, have been using the Crystodyne set which was described in "Wireless Weekly" (June 12, 1925) with great success. 3LO and 4QG can be received consistently at good phone strength with the use of a Neutron crystal and, considering the fact that the aerial is but twenty feet high and eighty feet long, this reception is exceptionally good. In addition, many of the New South Wales amateur stations are tuned in on this receiver.

AUSTRALIA AS MARKET FOR BRITAIN.

After Japan, the Commonwealth is the United Kingdom's second best customer for wireless. Imports of U.K. radio instruments (excluding valves) for 1922, 1923, and 1924 aggregated £2,320; £22,700; and £74,000 respectively. Valves (grouped with vacuum and X-Ray tubes), accounted for £2,400; £12,400 and £30,680. The value of Japan's radio imports from the U.K. was £173,000; £98,640 and £164,000 in 1922, 1923, and 1924 respectively. For valves the figures were £6,000, £21,000 and £37,600

PROHIBITED CIRCUITS.

According to a N.Z. correspondent, complaints against the prohibition of the use of certain circuits by the regulations governing broadcasting are being made by many listeners who are advocating that there should be no restrictions on circuits in New Zealand, as in England and Australia. It would appear that the existing restrictions prevent listeners who build their own receiving sets from using many of the systems of connection of parts described in the radio publications in other countries.

The New Zealand regulations were intended to forbid the use of any circuit where loose coupling



Read
the details of
the Amateur
Exhibit at the
Town Hall, on
May 3-8

They appear
on the opposite
page.



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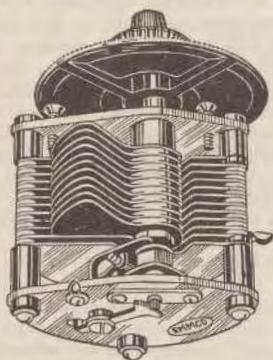
Large Variety Loud Speakers from 35/- to 58.
Hear them on music.

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Jefferson Star Transformers	17	6
30 ohm Rheostats	2	9
Egg Insulators, per doz.	6	6
Bull Nose Insulators, per doz.	3	0
12 Point Inductance Switches	2	6
Single Jack	1	8
Double Jack	2	0
Tunatron 201A Valve	9	9
7-22 Aerial Wire, per 100 feet	3	0
3 inch dials, each	9	9
Standard 201A Sockets	1	6
3 Coil Holder	7	6
.0005 Condensers	7	6

HAVE YOU TRIED THE HOWELL REINARTZ?
THERE'S NOTHING BETTER.
LET US REWIRE YOUR SET.
WE GUARANTEE RESULTS.

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AUSTRALIAN MADE GUARANTEED LOW LOSS
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Straight Line Wave Length. Square Law.

Most up-to-date Low Loss Condenser Made.

Emmco Jacks, Single	at 2/6
Emmco Jacks, Double	at 3/-
Emmco Jacks, Switch	at 4/6

SEE THEM AT YOUR DEALERS

of the aerial and grid coils is not employed in an attempt to minimise the howling valve nuisance. Our regulations permit the use of the commonly used three-coil arrangement, a circuit which, except in the hands of a few operators, will radiate and interfere to a considerable extent. When, in conjunction with the three coil arrangement, a stage of tuned radio frequency amplification is added, we are permitted to use an interfering system which, omitting the superheterodyne receiver, must be more troublesome to neighbouring listeners than other systems, prohibited or otherwise.

When amateur receiving was first allowed in the Dominion the favoured circuit was the well-known two-coil circuit. This arrangement is not now permitted, but, being easy to tune and having the grid coil directly in the damped aerial circuit, will give much less interference than the three-coil circuit. It is obvious, therefore, that regulations which encourage the use of an interfering circuit and forbid the use of a much less troublesome arrangement require revision.

The two-coil circuit has, however, extremely poor selectivity and would be of no use to an Auckland listener who wished to hear distant broadcasts while the broadly tuned 1YA was transmitting. The circuit is used widely in Australia and England, but would be valueless to Aucklanders who have to contend with the spark transmissions of VLD and to tune in distant stations if they wished to hear broadcasting of any quality.

2BL POPULAR IN N.Z.

Listeners in N.Z. to 2BL, Sydney, are expressing delight with the quality and volume of the broadcasts from that station. The children's bed-time stories are a source of pleasure even to adults and the general programme excites admiration.

MORE ABOUT CRYSTALS.

A broadcast listener in Brisbane states that, using his simple home-made crystal receiver he is able to consistently receive 3LO at night when the local station has closed down. The set consists of a 50 turn tapped coil tapped every ten turns and tuned by a variable condenser, and a QSA crystal is used with very good results.

TAX ON WIRELESS.

Many protests have been raised in France by the proposed new taxes on wireless apparatus, in which wireless sets are classed as a luxury. The French Wireless Union has unanimously adopted the resolution pointing out that wireless is by no means a luxury as 90 per cent. of the sets belong

to modest employees and workers.

Further, it is stated that it is a powerful element in the teaching of hygiene and medicine and in the furthering of social progress, and that, moreover, a still wider development of wireless would bring into the Treasury greater resources than the proposed tax.

The resolution expresses the determination to oppose any tax on ordinary sets, the price of which does not exceed 2,000 francs.

(N.B.: There appear to be some misprints in the original; e.g., 2000 periods probably means 2000 metres, and, in the last line but two 2525 metres are given for two different services.)

THE RECEIVING EARTH.

Interesting measurements on the most suitable earth system for reception on the broadcast band of wavelengths have recently been made in England by Dr. R. L. Smith Rose. For the earthing connections three systems were tried. First a good water main was available, which lay in damp ground for an uninterrupted length of about 100 yards; second a buried earth was constructed by burying a sheet of tinned iron, 4 feet by 3 feet, at a depth of 3 feet, immediately under the aerial lead-in; and thirdly, an experimental earth screen was arranged below the aerial and covering a piece of ground 100 feet long by 30 feet wide. Measurements were made of the received aerial current when using these different types of earth connections, and the effect of varying the arrangement of the earth screen was also investigated. The current received with the buried plate was about 15 per cent. less than that with the water pipe. With a screen comprised of a single insulated wire immediately under the aerial and at a height of 3 feet above the ground, the received current was over 60 per cent. greater than with the water-pipe connection. With four wires 3 feet apart in the screen the received current was twice as large as that with the water-pipe. It would follow therefore, that an earth screen has decided advantages over the ordinary earth connection when a 100 feet aerial is used, and it should be noted that the earth screen will, in addition, increase the selectivity of the whole receiving system. Four wires may be impracticable, but a practical and highly-satisfactory arrangement is to have two insulated wires 3 feet above the ground running parallel to the aerial along the edges of a 30 foot space.

WANTED.—All kinds Secondhand Wireless Sets
Parts, Speakers, etc. Best prices given. JACK
RAPKEN, 16 George Street West. MW 1201.

Supertran "Mica Insulated"

Audio Transformers



Supertran 25/- each

Ratios $3\frac{1}{2}$ -1
5-1

After exhaustive tests and investigation a new type of insulation, a mica compound, used on the core laminations and bobbins, has been found to eliminate interstage howling, guaranteeing much smoother reception with pleasing clarity of amplification on distant reception. It also allows greater battery voltages to be applied without risk of interwinding breakdown.



FMC 18/6 each

Ratios $3\frac{1}{2}$ -1
5-1

Type 51, 30/-

The Orthophonic Transformer.

Ratio, 5 to 1 only

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(WHOLESALE.)

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WELLINGTON, N.Z.

Around the Traders

THE "DUCON."

This handy little instrument which is obtainable at Amalgamated Wireless A/sia Ltd., is designed to enable those having electric light, to secure wireless broadcasting without the use of an aerial. The "Ducon" is plugged into an ordinary lamp-holder or wall socket, the terminals at the lower end of the "Ducon" connected to your receiving



set, and by tuning your set in the usual manner you can receive broadcasting perfectly. This simple piece of apparatus should supply the needs of the flat-dweller. It is perfectly safe to use and consumes no current nor does it affect the electric light in any way. The "Ducon" may be used with any type of wireless receiver.

"POLPAN" POLISH.

In addition to a wireless receiver being technically efficient, for home use, it should be as neatly finished as any other musical instrument. Many set builders hide the conglomeration of wires behind an ordinary dull surfaced panel with the conviction that a shiny surface affects the insulative properties of the panel. This is not necessarily the case.

An excellent panel-polish is now being handled by Keith Stokes, under the name of "Polpan," which has been proved to considerably improve the appearance of a receiver with absolutely no detriment to its working efficiency. It is colourless, odourless, and is applied by merely rubbing it lightly on the surface of Radion, Bakelite, or Ebonite. The result is a beautifully even polish, easy to obtain, easy to maintain, and easy to look at.

GILFILLAN PRODUCTS.

Messrs. Harringtons Ltd., who for several years have been sole Australian agents for Gilfillan radio products, announce that new stocks of the very latest additions to this line are now arriving. The new Gilfillan audio frequency transformer is a very worthy product, and is the result of intensive experimentation and investigation into the merits and demerits of iron core reproducing transformers. The straight line frequency .00035 mfd. variable condenser is another excellent example of the work of Gilfillan craftsmen. The last shipment was very quickly sold out, and a new lot has just arrived. A good illustration of accomplished methods is the new and improved Gilfillan standard valve socket, good stocks of which are now available. There are many other items included in the new Gilfillan products, and an inspection is well worth while. Harringtons advise large stocks of 201A and 199 low loss variable condensers and synchrodenvers.

Amongst new agencies recently acquired by this concern are Daven radio products, Hoyt motors, Speedee-Hercules products, and Radio Panels and Parts Corporation.

BRANDES' AUDIO TRANSFORMERS

This type of transformer which is now available on the market through the International Radio Company Limited, incorporates some new and interesting feature, the inductance of the primary winding being much larger than is usual, thus giving good amplification at low frequencies and perfect reproduction particularly on the lower registers. When used as a second stage amplifier to alter tone, the effect of placing a high resistance across the secondary is useful.

In the manufacture of this type of transformer, the main object in view is a high amplification frequency curve; the unit is well protected mechanically, and the insulation properties are very high. The ratio of turns is five to one and when used as a second stage amplifier, grid cells for biasing purposes may be used. Soldering tags are provided for connection in addition to the ordinary terminals. Each instrument is subjected to a strict test against a standard before leaving the factory.

ASK YOUR DEALER FOR DIAMOND DRY BATTERIES



THE CRYSTAL with VALVE POWER

ELCO Radio Engineers of W. Brunswick, write:—

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CHANGE OF EDITORSHIP.

The "Irish Radio Journal" and "Irish Radio Trader" are to be congratulated upon obtaining a new editor in the person of Mr. W. R. Burne. These two radio journals are published in Dublin, and we feel sure that, under the able guidance of Mr. Burne, they will continue to progress as satisfactorily as they formerly did under the management of his predecessor, Mr. Scott Hayward, who has gone to South Africa to take up another position. Mr. Hayward was a staunch friend to "Wireless Weekly," and was responsible for the news items concerning Irish radio affairs published from time to time in this paper. He carries to South Africa our sincere good wishes for success in his new venture.

Colonial Wireless Buyers

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NOTES FROM 3LO

3LO AT ALASKA.

It is not beyond the bounds of possibility that when Captain Wilkins reaches the North Pole he will find an Eskimo in the vicinity with headphones and a crystal set, listening-in to the news of the moment. Wireless has its devotees even in the furthest north. This week the management of 3LO Melbourne received a letter from Mr. Louis L. Carp, in the Aleutian Islands, Alaska, in which he states that on January 13 he heard an item, "Tales of Hoffmann," from 3LO Melbourne. It came through loud and clear, and without interference. The particulars supplied by Mr. Carp coincided with the official programmes. "It sure seems good when you can reach out 6500 miles and hear splendid programmes with little or no interference," he says. Mr. Carp has asked to be supplied with full programmes each week.

ALPINE TRIAL.

Victoria's army of motorists is of tremendous proportions. Conditions are rapidly approaching those in America, where every second family has a car of some sort. Thus it is obvious that the Victorian public has a great interest in motoring affairs, and 3LO Melbourne has filled a general requirement when it broadcasted the recent Alpine Motor Reliability Trial. Hours before the information reached the press, telephonic messages from the various officials in charge of the strenuous trial reached 3LO Melbourne a few minutes after each section of the distance had been completed, and the news was immediately broadcasted. At the time of going to press the final of the test had not been reached, but listeners-in can be assured that they will be first to hear the result.

A GREAT ORGANISER.

Mr. Darvall Thomas, a tenor vocalist who has been prominent in 3LO programmes recently, both in solos and in connection with his Nigger Minstrel Show, is a vocalist of considerable talent and experience. He came to Australia in 1913 with the Quinlan Grand Opera Company, and has since made three trips to the Old Country. As an organiser Mr. Thomas is especially capable. The Tivoli Four Quartette, which he created, had a most successful season in various city theatres, and later joined the Tivoli Minstrel Show. Mr. Thomas is now organising another quartette, which will probably be seen on the Tivoli before long. He comes from a musical family, his father being one of the principal tenors with the State Opera Company in Chicago. Mrs. Darvall Thomas is better known to listeners-in as Miss Dorothy Dane, whose soprano voice has registered well.



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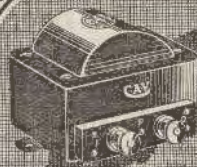
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FRIDAY, APRIL 9.

Midday Session.

12.55—"Tune-in" Signal.

1—Market Reports supplied by the Council of Agriculture; Stock Exchange Information supplied by the Committee of Brisbane Stock Exchange; Weather Information supplied by the Commonwealth Weather Bureau; "Daily Standard" News Service; Close down.

Night Session.

8—"Tune-in to the Tivoli Theatre.

8.5—An entertainment by The Paramount Synopators, under the leadership of Mr. W. G. McGrath. Mrs. H. Sewell (soprano), Mr. D. A. Williamson (saxophone), Mr. H. Parker (cornet), Mr. A. Stevenson (violin), Mr. W. Geo. McGrath (banjo), supported by Mrs. H. Parker, Mr. W. M. Clancy, and Mr. H. Humphries. Selections: Dog, Malu Street (Weidt), The Paramount Synopators; bedtime solo: Minnie Maecro (Olent and Ball), Mr. M. Clancy; pianoforte solo: Sonata Pathetique (Beethoven), Mrs. H. Sewell; cornet solo: Bedouin Love Song (Pineut), Mr. H. Parker; fox trots: (a) Titania (Dadourff), (b), Ukolele Lady (Kahn), (c), I Gried for You (Froed), The Paramount Synopators; soprano solo: Carmen (Watson), Mrs. H. Parker; banjo solos—well-known arias arranged by Mr. W. G. McGrath; violin solos: One Fleeting Hour (Fahman), Mr. A. Stevenson; waltzes: (a), Love's Dream (Bennett), (b), Nightingale (Brookman), The Paramount Synopators; Ten Minutes of Melody by The Sparklers.

6.50—Weather Information officially supplied by the Commonwealth Weather Bureau.

6.55—Announcements.

5—Fox trots: (a) I'm Gonna Bring a Watermelon (Rose), (b) Other Lips (Wallace), The Paramount Synopators; baritone solo: They Say (Austin), Mr. M. Clancy; piano solo: Romance, from "Tannhauser" (Wagner), Mrs. Sewell; monologue: Wilfred Danvers' Dream (from "The Silver King"), Mr. H. Humphries; fox trots: (a) Yeaming (Davis and Barker), (b) Learn to do this Strut (Herin), (c) An Orange Grove in California (Beelin), The Paramount Synopators; violin solo: In Old Madrid (Totera), Mr. A. Stevenson; cornet solo: The Rosary (Novin), Mr. H. Parker; banjo solo: Comical Coons (Grishshaw), Mr. W. G. McGrath; fox trots: (a) Don't Bring Lulu (Brown), (b) If You Know Susie (De Silva), (c) Moonlight and Roses (Lemare), The Paramount Synopators.

9.55—"The Daily Mail" News Service.

10—Close down.

SATURDAY, APRIL 10.

No Holiday Transmission.

The Children's Hour.

A Children's Bedtime Story Session is held each Monday, Wednesday, and Saturday evening. At a later date this session will be made a nightly feature, but in the immediate present, while transmission is being effected under temporary conditions, it is held three times weekly.

6.25—"Tune-in" Signal.

6.30—The Children's Hour; Nursery Rhymes and Music; Bedtime Stories by "The Sandman." 7.15—Close down.

Night Session.

6—"Tune in to the Tivoli Theatre.

6.5—From the Studio; soprano solo: If Winter Comes (F. Day and Hunter), Miss Anna Burko; Aeolian selection, fox trot: The Toy Drum Major (H. Nicholas), Jeffries and his Rialto Orchestra; elocutionary: The Alloy (H. Lawson), Miss N. Douglas Graham; vocal duet: Goodnight Pretty Stars (Noel Johnson), Mrs. R. G. Allen and Miss Jessie McDonald; soprano: Mr. Fals are at Home (O'Mann), Miss A. Barker; Duo Act selection, fox trot: Shein (Jack O'Hagan); elocutionary: Nation Builders (Evans), Miss N. Douglas Graham; vocal duet: Nocturne (L. Denza); contralto: Shambler Sea (Grishshaw), Miss Jessie McDonald; Aeolian selection, fox trot: San Francisco (Carlton Conder), Jeffries and his Rialto Orchestra; soprano: Destiny (E. W. Furell), Mrs. H. G. Allen.

8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9.5—From Lennon's Ballroom: An Hour and a Half's dance music by Miss May Debynia's Vira Regal Orchestra.

10.30—From the Studio: The Sunday Mail News Service; Close down.

SUNDAY, APRIL 11.

Morning Session.

The complete morning service from the City Tabernacle will be relayed.

10.55—"Tune-in."

11—Morning Service.

12.15—Close down.

Afternoon Session.

The Band Concert provided in the Botanical Gardens will be relayed.

3.15—"Tune-in" Signal.

3.15—Band Concert.

4.30—Close down.

Night Session.

The complete evening service from the City Tabernacle will be relayed.

7—"Tune-in."

7.5—Evening Service.

Band Concert.

At the conclusion of the Church Service, the Band Concert provided in Wickham Park by the Greater Brisbane Municipal Concert Band (under the leadership of Mr. E. Jackson) will be broadcast.

March: Preludes (Devery); overture: Der Freischutz (Welder); song: Moon Deer, Miss Winifred Anderson; bandiana Sketches: Four Negro Spirituals (C. C. White); popular numbers: selected; song: Yeaming (Davis), Miss Winifred Anderson; Selection from the opera "Parsifal" (Dentant). Close down.

MONDAY, APRIL 12.

Market Reports.

The Children's Session.

A children's bedtime story session is held each Monday, Wednesday, and Saturday evening. At a later date this session will be made a nightly feature, but in the immediate present, while transmission is being effected under temporary conditions, it is held three times weekly.

6.25—"Tune-in" signal.

6.30—The Children's Hour, Nursery rhymes and music; bedtime stories by "The Sandman."

7.15—Close down.

Night Session.

8.5—From the Studio: Ten Minutes of Music and Mirth by The Sparklers; cornet solo: Italian Rhapsody (Bohm), Mr. S. Henry; Motorists' Corner: A talk by Mr. W. T. Donohoe; elocutionary number: Johnnie, Me and You (Corney Grain), Miss Fea Todd; tenor solo: Sign No More (Aitkin), Mr. J. Steed; Mrs. N. Gould and his Banjo; cornet solo: Wendouree (Ferry Code), Mr. S. Henry; elocutionary number: A Clean Sweep (Newman), Miss Fea Todd; A Humorous Interlude: Mr. W. F. Kenny; tenor solo: In the Garden of Your Heart (Dore), Mr. J. Steed; Mr. N. Gould and his Banjo.

8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9.5—From the Band Room: An hour of music by the South Brisbane City Orchestra (under the leadership of Mr. J. W. Ferguson). Programme: Overture: Tancredia (Kossini); Anvil chorus from "Il Trovatore" (Theo Mosse); violin solo: Selected, Miss H. Bennett; Idylle: Evening Devotion (Albert B. Malt); Slavonic Rhapsody (Friedman); Medley of Euphony Songs (Al. Hayes).

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TUESDAY, APRIL 13.

Midday Session.

12.55—Tune-in signal.

1—Market Reports and Stock Service supplied by the "Daily Standard"; No Stock Exchange.

Night Session.

8.—Tune-in to the Tivoli Theatre.

8.5—From the Studio: Contralto solo: Reloved It in Morn'g (Alward), Miss Hilda Cooper; Instrumental: Serenade (Widor), The Studio Quartette; cornet solo: I Dreamt I Dwellt (H. Round), Mr. J. W. Burgemeister; Hawaiian Trio: Three o'Clock in the Morning, Messrs. Gardiner, Bleek, and Gardiner; Lullaby: Photography, Mr. F. L. South; contralto solo: The Fairy Pipers (Brewer), Miss Hilda Cooper; Hawaiian Trio: Hawaiian Medley, Messrs. Gardiner, Bleek and Gardiner; cornet solo: The Salletete (Clay Smith), Mr. J. W. Burgemeister; instrumental: Badinage (Victor Herbert), The Studio Quartette; Hawaiian Trio: Honolulu March (Ferrara Franchini), Messrs. Gardiner, Bleek and Gardiner.

8.50—Weather information officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9—From the Centennial Hall. By courtesy of the lessee, an Hour's programme of dance music by the Orchestra will be relayed from the Hall. The Orchestra will play: One steps: Home Sweet Home (H. Merrin), Annie A. Allan and J. C. Gilbert, Midnight Cheese Chow (J. C. Gilbert), Fox Trot: Grassy's Song at Twilight (H. Stanley and A. Allan), Rock-a-bye-baby Days (A. Silver), A-U-double S-I-E (Moya Croasley), Waltzes: Memory Lane (L. Spier and C. Conrad), In Our Little Canoe (C. Oleg and R. Edwards), The Moon (H. H. Kurlander).

10—From the Studio: The Daily Mail news service. Close down.

WEDNESDAY, APRIL 14.

Midday Session.

12.55—Tune-in signal.

1—Market reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" news service. Close down.

The Children's Session.

A children's bedtime story session is held each Monday, Wednesday, and Saturday evening. At a later date this session will be made a nightly feature, but in the immediate present, while transmission is being effected under temporary conditions, it will be held three times weekly.

6.25—Tune-in signal.

6.30—The Children's Hour. Nursery rhymes and music; bedtime stories by "Little Miss Brisbane."

7.15—Close down.

Night Session.

8.5—From the Studio: Instrumental Duo: Chant-des Gondoliers (Acton), Miss Jeffries, piano, and Mr. R. Jeffries (Mandolin); contralto solo: Kate O' Shanra (Lilley), Miss Jessie McDonald; soprano solo: Morning (Oley Sparks),

Miss Lilian Brown; cornet solo: Good-bye (Posti), Mr. S. Henry; vocal duet: It Was a Lover and His Lass (Walthew), Mrs. R. G. Allen and Miss Jessie McDonald; A Group of Dances Numbers by Mr. W. G. McGrath; soprano solo: Love the Vagrant from "Carmen" (Bisot), Mrs. R. G. Allen; pianoforte solo: Musical Snuff Box (Ladlow), Mrs. H. Woolmer; cornet solo: On the Bank of Allan Water (Hartman), Mr. S. Henry.

8.50—Weather information officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9—Soprano solo: Songs my Mother Taught Me (Dvorak), Miss Lilian Brown; Instrumental Duo: Come into the Garden Maude (Read), Miss Jeffries (piano), and Mr. R. Jeffries (Mandolin); vocal duet: Night of Stars and Night of Love (Offenbach), Mrs. R. G. Allen and Miss Jessie McDonald.

9.25—From the Tivoli: Three-quarters of an hour's Orchestral Music by the Tivoli Operatic Orchestra.

10—The Daily Mail News Service; Close down.

THURSDAY, APRIL 15.

Midday Session.

12.55—Tune-in signal.

1—Market reports supplied by the Council of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" news service. Close down.

Night Session.

8.—Tune-in to the Tivoli Theatre.

8.5—From the Studio: Instrumental number: Waltz: I Love the Moon (Rubens), The Studio Quartette; contralto solo: I Love You Truly (May Brann), Miss M. Miller; Bookman's Radiotele: A Talk on latest literature by Mr. W. Residen (McLeod's Bookstore); Ten Minutes of Humour by Mr. W. F. Kony; cornet solo: Robin Adair (Hartman), Mr. J. W. Burgemeister; baritone solo: Mountain Love (Squire), Mr. L. Sheridan; Instrumental Number: Variation (Chaminade), The Studio Quartette; educational number: The Guebung Polo Club (Miss M. Miller); Instrumental number, fox trot: Lonesome Me (Stonham and Millen), The Studio Quartette; baritone solo: Mother Marie (Olegit & Ball), Mr. L. Sheridan; cornet solo: The Island Emperor (Farrell), Mr. J. W. Burgemeister; bass solo: The Mighty Deep (Jude), Mr. Norman A. Cooling; instrumental number: Lovin' Ecstasy (Raymond Rose), The Studio Quartette.

8.50—Weather information officially supplied by the Commonwealth Weather Bureau.

8.55—Announcements.

9—From the Band Room: An impromptu programme of music by the Greater Brisbane Municipal Concert Band, under the leadership of Mr. R. Jackson.

9.55—From the Studio: The "Daily Mail" news service. Close down.

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FRIDAY, APRIL 9.

Afternoon Session.

8—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.

8.30—Music from the Studio.

8.40—G.P.O. Clock and Chimes; A talk on English Poetry by Mr. J. M. Prentice.

8.55—Music from the Studio.

9—G.P.O. Clock and Chimes; Music from the Studio.

9.30—G.P.O. Clock and Chimes; Serial Story entitled This World of Ours.

9.45—Music from the Studio.

9.50—G.P.O. Clock and Chimes; The Sun News Service.

10.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

6—G.P.O. Clock and Chimes; Sporting Resume from the Sun Newspapers; The pupils of Miss Monica Smith will entertain the Kiddies.

6.45—Broadcaster's Dinner Orchestra.

7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

7.50—Close down.

Evening Session.

Dance Night. From the Studio: Leslie McCallen, baritone; Grace Saville, contralto; Mr. Ward L. Hayward will speak on "Kosciuszko for Young Australians." Round the World Travels by Mr. J. M. Prentice.

SATURDAY, APRIL 10.

Afternoon Session.

8—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from Sun Office.

8.35—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

8—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cecil Morrison.

8.30—Sporting Resume from Sun Newspapers; Uncle Jack and the Kiddies.

7—A Talk to the Kiddies by "Brin-ga."

7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

7.50—Close down.

Evening Session.

From the Studio: Banballus Grid, a combination of Mike Pank, Buzio and Vance; Alfred Cunningham, baritone; Misses Daisy Madigan and Amy Osting in duets and solo; Alad Duo with their steel guitars. Brings will speak about the Aborigines.

SUNDAY, APRIL 11.

11—First Church of Christ, Scientist, Sydney.

3.30—Many Municipal Military Band, broadcast from Bandstand, Ocean Beach, Manly.

7.25—Lecture Recital from King's Hall.

8.30—From the Studio: Broadcasters' Miniature Orchestra; Leonard Gotsch, coloratura soprano.

MONDAY, APRIL 12.

Afternoon Session.

8—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.

8.15—David Jones' Tea Room Trio.

8.30—G.P.O. Clock and Chimes; A talk on A Course in English Literature, by Mr. J. M. Prentice.

8.45—Music from the Studio.

9—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.

9.15—Music from the Studio.

9.30—G.P.O. Clock and Chimes; Serial Story

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entitled This World of Ours.
 4.45—Music from the Studio.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

5—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.
 6.30—Sporting Resume from Sun Newspapers; Uncle George and the Kiddies.
 7.30—"What's On," a guide to the visitors and citizens of Sydney.
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Lead & Finance Company.
 7.50—Close down.

Evening Session.

Band Concert. Ambassadors Instrumental Salon Quartet under the direction of Mr. Claude McEgan. From the Studio; Nora Hill, Irish Soprano; Thelma Houston, contralto. Mr. Frank D. Marshall, will speak on Rays and Electromagnetic Disturbances.

TUESDAY, APRIL 13.

Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
 3.15—Music from the Studio.
 3.30—G.P.O. Clock and Chimes.
 3.45—Music from the Studio.
 4—G.P.O. Clock and Chimes; Music from the Studio.
 4.35—G.P.O. Clock and Chimes; Serial Story entitled This World of Ours.
 4.45—Music from the Studio.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

5—G.P.O. Clock and Chimes; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.
 6.45—Broadcasters Dinner Orchestra.
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Lead & Finance Company.
 7.50—Close down.

Evening Session.

Twenty round fight broadcast from Smrks's Olympia Stadium, Merrickville.

WEDNESDAY, APRIL 14.

Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
 3.15—Broadcasters' Trio.
 3.40—G.P.O. Clock and Chimes; Special Operatic Talk by Mr. J. M. Prentice.
 4—G.P.O. Clock and Chimes; Broadcasters' Trio.
 4.30—G.P.O. Clock and Chimes; Serial Story entitled This World of Ours.
 4.45—Broadcasters' Trio.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

5—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.
 6.30—Sporting Resume from Sun Newspapers; Uncle George and Uncle Jack with the Kiddies.
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Lead & Finance Company.
 7.50—Close down.

Evening Session.
 8—From the Studio; Norman Janson, baritone; Sketches by Leah Freedman, and Bert Trumble. Mr. J. M. Prentice will speak on Foreign Affairs and reply to any telephone question on the subject; Professor Boloi's Embassy Jazz Orchestra under the direction of Mr. S. Bennett, broadcast from Embassy Palais.

THURSDAY, APRIL 15.

Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Reports and Social Notes from The Sun.
 3.15—David Jones' Tea Room Trio.
 3.30—G.P.O. Clock and Chimes;
 3.45—Music from the Studio.
 4—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.
 4.15—Music from the Studio.
 4.30—G.P.O. Clock and Chimes; Serial Story entitled This World of Ours.
 4.45—Music from the Studio.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.
 5.30—G.P.O. Clock and Chimes; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.
 6.45—Broadcasters Dinner Orchestra.
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Lead & Finance Company.
 7.50—Close down.

Evening Session.

8—From the Studio; Millie Hughes, soprano; Ray Beatty, Bass; Cantata in solo and duets; Reg Harrison, comedian; Hoyt's Imperial Orchestra under the direction of Mr. Lionel Hart, broadcast from Hoyt's Theatre.

2KY

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FRIDAY, APRIL 9.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.45 p.m.

Children's Hour.

6.30—The Man in the Moon.
 7.45—Latest News Items; Miss Esme Diehl, L.L.C.M.; Miss Maieia Carroll, soprano; Mr. Alf James, baritone; Mr. Beard, technical designer of 2KY, Wireless Lecturette; Ed. Corduroy's Moungthies' Dance Orchestra; Miss Ivy O'Neill, contralto; Miss Kathleen Stenz, soprano; Mr. J. Fahey, tenor.

SATURDAY, APRIL 10.

Evening Session.

7.45—Latest News Items and sporting results; Mr. J. O'Sullivan, baritone; Lecturette; Hits on Motors, Mr. W. H. Burgess; Mr. Frank Redman, monologues; lecture, Labor Legislation, Mr. J. C. Eldridge; Mr. Robertson baritone, and others to be announced.

MONDAY, APRIL 12.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted closing down at 4.45 p.m.

Children's Hour.

6.30—The Man in the Moon.
 7.45—Latest News Items; Miss Amy Rowland, entertainer; Miss D. Johnston, soprano; Mr. W. Strain, tenor; Local Topics, Industrial and Political, Mr. J. S. Garden; Mr. Beard, technical designer of 2KY, Wireless Lecturette; Miss Jessie Browning, contralto; Mr. Godfrey Stedman, elocutionist.

TUESDAY, APRIL 13.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.45 p.m.

Children's Hour.

6.30—The Man in the Moon.

Evening Session.

7.45—Latest News Items; Mr. McKillop, Tramway Comedian; Miss Dorrington, soprano, Cec. Morris and his Bluebirds' Jazz Band; Lecturette; Teaching the child to read, Miss E. M. M. Swain; Miss Zara Neilsson, soprano; Lecturette, Mr. R. V. Markham; Flute Solos, Mr. Les Sproule; Mr. Mcougal, Hawaiian Steel Guitar.

WEDNESDAY, APRIL 14.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.45 p.m.

Children's Hour.

6.30—The Man in the Moon.

Evening Session.

7.45—Latest news items; Miss Eileen Charters, soprano; Miss Dean, pianist; Lecturette; International Topics, Industrial and Political, Mr. J. S. Garden; Mr. R. Webster, baritone; Mr. Percy Brown, monologues; Mr. Sullivan, tenor; Miss Thompson, soprano; Miss Lily Wallace, whistler; Lecturette Subject to be announced, It. Rev. G. S. Arundale.

THURSDAY, APRIL 15.

Afternoon Session.

2.30—A varied musical and vocal programme will be transmitted, closing down at 4.45 p.m.

Children's Hour.

6.30—The Man in the Moon.

Evening Session.

7.45—Latest News Items; Messrs. Haydon and Price, cornet duet; Miss Tibbie Smith, monologues; Mr. Eric Goldrick, Hawaiian Steel Guitar; Lecturette on the Abrams Method; Lecturette, subject to be announced, Miss E. L. Patrick; Andro Addison's Novelty String Orchestra.

5CL

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FRIDAY, APRIL 9.

Morning Session (11.30 a.m. to 2 p.m.)
 11.30—G.P.O. Chimes.

Burgess—"They're used throughout the United States Navy"—Batteries

- 11.31—Featuring a Steek Duo Art number.
 11.40—"Advertiser" News Service.
 12—G.P.O. Chimes.
 12.1—News and Cable Service.
 12.18—Featuring a Steek Duo Art number; The SCL Studio Orchestra will play:—Selection; cornet solo; fox trot; suite; oriental violin solo; waltz; Morceau, "Salut D'Amour"; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.
 2—G.P.O. Chimes.

Afternoon Session (3 to 5).

- 3—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe; Orchestral numbers.
 3.45—Broadcast from Studio; Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe; Orchestral numbers. Miss Thomas, vocalist.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.30—Stock Exchange, Market Reports and Station Announcements.
 7.40—Spotting Talk by "Old Timer."
 8—G.P.O. Chimes.
 8.1—Studio Concert under direction of Mr. Len F. Lierich.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.3—Studio Concert—continued.
 10.1—Studio Concert—continued.
 10.15 approx.—Advertiser News Service.
 10.30—Station Announcements; National Anthem.

SATURDAY, APRIL 10.

12.30—The SCL Studio Orchestra will play: Overture; cello solo; fox trot; serenade; instrumental trio; suite; waltz; cornet solo; finale.

Afternoon Session.

By permission of Tattersall's Racing Club, a running description of the races at Victoria Park will be given by Mr. Arnold Treloar.

Evening Session.

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.30—Market reports and station announcements.
 7.40—A review of the world's chief sporting events.
 8—G.P.O. Chimes.
 8.1—Studio Concert arranged by Mrs. W. Kettle Steward.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.3—Studio Concert—continued.
 10.1—Studio Concert—continued.
 10.21—"Advertiser" News Service.
 10.30—Station Announcements; National Anthem.

SUNDAY, APRIL 11.

Morning Session:

11—Broadcast from Flinders Street Baptist Church, Divine Service; Address Fragments, by Rev. F. G. Benakin, M.A.

Evening Session:

6.55—Broadcast from St. Bartholomew's Church; Divine Service.
 8.15—By permission of the Management of the Midnight Frolic, Messrs. Glenn, Dawe, Alus Rekan, Donald Stafford, and Oscar Beck, will be heard in a

series of vocal and instrumental numbers.
 9.15—International Bible Students' Association.
 10.—Station Announcements; Tomorrow's Programme; National Anthem; Close down.

MONDAY, APRIL 12.

Morning Session (11.30 a.m. to 2 p.m.)

- 11.30—G.P.O. Chimes.
 11.31—Featuring a Steek Duo Art number.
 12—G.P.O. Chimes.
 12.1—News and Cable Service.
 12.16—Featuring a Steek Duo Art number; SCL Studio Orchestra will play: Selection; cornet solo; "A Song of India"; "Dance passion"; melody; one step; violin solo; selection; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.
 2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

- 3—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe; Orchestral numbers.
 3.45—Broadcast from Studio; Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe; Orchestral numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 6.45—Children's Concert arranged by Miss Charlotte Shearer, L.A.B.
 8—G.P.O. Chimes.



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 8.40—Studio Concert—continued.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.15—Studio Concert—continued.
 9.10—Talk on Photography, arranged by Harringtons, Limited.
 8.29—Studio Concert—continued.
 10—G.P.O. Chimes.
 10.1—Studio Concert—continued.
 10.45—Station Announcements; Tomorrow's Programme; National Anthem.

TUESDAY, APRIL 13.

Morning Session (11.30 a.m. to 2 p.m.)

- 11.30—G.P.O. Chimes.
 11.31—Featuring a Stock Duo Art number.
 12—G.P.O. Chimes.
 12.1—News and Cable Service.
 12.10—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play; Selection; cornet solo; fox trot; reverie; suite; waltz; two dances; cello solo finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis and Station Announcements.
 3—G.P.O. Chimes.

Afternoon Session. (3 to 5).

- 2—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe: Orchestral Numbers.
 3.45—Broadcast from Studio: Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe: Orchestral Numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (5.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 7.30—Stock Exchange, Market Reports and Station Announcements.
 7.40—Physical Culture Talk by Mr. Noel H. Hubble.
 8—G.P.O. Chimes.
 8.1—By arrangement with Captain Hugh King (conductor) and Mr. Alhol Lykke (manager), the programme of the Norwood and Kensington Symphony Orchestra will be broadcast from the Norwood Town Hall. Leading Adelaide artists performing.
 8.30—Cookery Talk arranged by S.A. Gas Co.
 8.40—From Norwood Town Hall—continued.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.2—From Norwood Town Hall—continued.
 10—G.P.O. Chimes.
 10.1—From Norwood Town Hall—continued.
 10.36—"Advertiser" News Service.
 10.50—Station Announcements; National Anthem.

WEDNESDAY, APRIL 14.

Morning Session (11.30 a.m. to 2 p.m.)

- 11.30—G.P.O. Chimes.
 11.31—Stock Duo Art and Aeolian Vocalion Records.
 12—G.P.O. Chimes.
 12.1—News and Cable Service.
 12.10—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play; Overture; violin solo; fox trot; records; waltz; nolette; cornet solo; selection; finale.

- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis, and Station Announcements.
 2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

- 3—G.P.O. Chimes.
 3.1—Broadcast from Maple Leaf Cafe: Orchestral Numbers.
 3.45—Serial Story from the Studio.
 4—G.P.O. Chimes.
 4.1—Relay from Arcadia Cafe: Orchestral numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 6—G.P.O. Chimes.
 8.1—Studio Concert arranged by Miss Hilda Wheeler.
 8.30—Science Lecture arranged by Messrs. F. H. Foulding & Co.
 8.45—Studio Concert—continued.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.2—Studio Concert—continued.
 10.1—Studio Concert—continued.
 10.25—"Advertiser" News Service.
 10.40—Station Announcements; National Anthem.

THURSDAY, APRIL 15.

- 11.30—G.P.O. Chimes.
 11.31—Featuring a Stock Duo Art number.
 11.40—"Advertiser" News Service.
 11.55—Vocalion Number.
 12—G.P.O. Chimes.
 12.1—"Advertiser" News Service.
 12.16—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play; Selection; cello solo; fox trot; valve tris; The dancer of Navarre; reverie; cornet solo; selection; finale.
 1.55—Ward & Co.'s Stock Exchange Intelligence, Official weather synopsis, and station announcements.
 2—G.P.O. Chimes.

Afternoon Session.

- 3—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe, orchestral numbers.
 3.45—Broadcast from Studio, Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcasts from Arcadia Cafe, orchestral numbers.
 4.55—Stock Exchange Reports, general information, and station announcements.
 5—G.P.O. Chimes.

Evening Session.

- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories.
 7.15—Health Talk by Mr. A. M. Whittebury.
 7.30—Market Reports.
 7.40—Poetry Talk by Mr. A. M. Whittebury.
 8—G.P.O. Chimes.
 8.1—Studio Concert.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.2—Studio Concert—continued.
 10—G.P.O. Chimes.
 10.1—Studio Concert—continued.
 Approx.
 10.15—"Advertiser" News Service.
 10.30—Station Announcements; National Anthem.

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SUNDAY, APRIL 11.

Morning Session, 11 a.m. to 12.15 p.m.
 11—Hymn: Love Divine from Jesus Flowing; Prayer: Lionel Harris; Hymn: When I Survey the Wondrous Cross; Scripture Reading: Colossal Gaskin; Male Quartette; Hymn, selected; Address: Commissioner Hugh E. Wharmore; Doxology and Benediction.

Afternoon Session, 3 to 4.30.

3—Orchestral Selection (Conductor Mr. G. M. Williams); Hymn: Thou Whoas Almighty Word; Prayer: Rev. J. H. Cain; Hymn: Master, Speak Thy Servant Heareth; Solo: Miss Bala Rangan; The Lord is My Light (Allison); Orchestral Selection; Solo, Miss Bala Rangan; Come unto Him. (Messiah); Notices, Offering and Orchestral selection; Address: Dr. John P. Mott; World's Student, Christian Movement; National Anthem; Benediction; Orchestral Selection.
 Evening Session, 6 to 6.45.
 6—Children's Hour. Stories by Billy Bunny; The Lost Garden; The Loves Life; Red Fleckle.
 6.45—Close down.

Night Session, 7 to 10.

7—Voluntary: Andante Tranquillo (Smart); Sanctus; Prayer of Invocation; Hymn 54; How Shall I follow; Scripture Reading: Isaiah 53; Chorus: "Twith Mass"; Prayer: Solo: O God Have Mercy, from Mendelssohn's "St. Paul"; Mr. T. George Lord's Prayer; Solo: He was Despised from "The Messiah"; Miss Ruth Sloggett; O Memory; Voluntary: Evanson (Martin); Hymn 540: There is a Green Hill; Sermon: Can one bear the sin of others; Hymn 353; At even, ere the sun was set; Benediction; Hallelujah Chorus from "The Messiah"; Concluding Voluntary: Modesto in A (Binck); Preacher: Rev. A. R. Gaborra, M.A., Organist: Mr. C. H. Moore, A.L.C.M.
 8.30—From the Studio: Harry Ratcliffe, baritone: Lolita, Hybris; the Orphan, O Flower of all the World.
 8.40—August Di Olio (Violin and Cello); Buis (violin); Recital: Violin, C. Mihar Sonata, 1st Movement (Greig); Thesis (Massenet); Nigunerwafsen (Spanish Dance); (Saxate); piano: Danco Negro (Cyril Scott); Autumn (Chaminade).
 9.15—Constantine Hart, soprano: Ave Maria (Della), To Electra, Lass with a Delicate Air.
 9.25—C. Richard Chugg, Bass solo: Nocturne in E Flat (Chopin); Valse Grotesque (Ed. German).
 9.30—Harry Ratcliffe, baritone: If I were King (Webster), Big Ben (Adams), The Dawn (D'Hardiclot).
 9.40—C. Richard Chugg, Alto solo: Wind in the Trees (Bricevaldi).
 9.45—Constantine Hart, soprano: Porgi Amor (Pergoli); Bobin's Song, I know where I'm Goin'.
 9.57—Herald and Argus News Services.
 10—God Save the King.

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MONDAY, APRIL 12.

Midday Session 12 noon to 2 p.m.

- 12 noon—Time Signal: British Official Wireless News from Rugby; Reuters and the Australian Press Association Cables; "Argus" and "Herald" news Services; Shipping Intelligence.
- 12.45—Stock Exchange Information.
- 12.50—Meteorological Information: Weather Forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecasts; River Reports.
- 1—Time Signal.
- 1.1—Round the World in an Hour.
- 1.1—Australia, Studio Orchestra: Australia Land of Ours (Glasa).
- 1.4—New Zealand, Isobel Eckersall, soprano: Waista Poi (E.H.).
- 1.10—America, Studio Orchestra Yankee Girl (M. Horton).
- 1.15—British Isles, Isobel Eckersall, soprano: The Fishers (Hulsh). The Last Rose of Summer, Culler Lecrin.
- 1.25—Spain, Studio Orchestra, solo: In Sunny Spain (Elliott).
- 1.35—Venice, Walter Smith, cornet solo: Carnival of Venice (Bimmer).
- 1.45—India, Station Trio: Two Eastern Songs (Lang).
- 1.50—China, Bessie Gausson, violin solo: Tamboorin Chinois (Kreidler).
- 2.55—Japan: Studio Orchestra, fox trot: Japanese Sunset.
- 2—Close down.

Afternoon Session, 3 to 5.

- 3—Studio Orchestra: Waltz (Greig), Fairy Dance (Greig).

- 3.7—Adele Crane, soprano, by permission of J. G. Williamson Ltd.: Down in the Forest (Rund), Sing Joyous Bird. There are Fairies at the bottom of my Garden.
- 3.17—Miss Millie Meyers, Travel Talk: Recollections of Montenegro.
- 3.32—Studio Orchestra, selection: Clarinet.
- 3.32—Tasma Thorsen, cello solo: My Song of Songs (Clay Smith).
- 3.47—Miss Flora Poll, Supervisor of Domestic Arts, Education Dept.: Domestic Economy.
- 4.2—Eric Haslam, baritone, by permission of J. G. Williamson Ltd.: A Sergeant of the Line (Squire). The Yeoman's Wedding Song (Poniatowski). Ma'ra My Girl (Aiken).
- 4.12—Station Trio: The Wood Nymph (Gustav Lund), Cradle Song (Schubert).
- 4.17—Adele Crane, soprano: Adio (Bofeme). It is only a tiny Garden, Garden of Happiness.
- 4.27—Studio Orchestra: Serenade Esqueno (Kampfer).
- 4.34—Eric Haslam, baritone: The Gallant Salamander (Bardard). The Windmill (Nelson). Beauty's Eyes (Tosti).
- 4.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables; Stock Exchange Information.
- 5—Time Signal; Close down.
- Evening Session, 6 to 7.15
- 6—Children's Hour, Stories by "Billy

- Bunny," Nursery Rhymes; The Musical Teap; Houses of the Eagle.
- 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
- 6.54—Weather Synopsis; Shipping Movements.
- 6.57—Stock Exchange Information.
- 7.2—Fish Market Report by J. R. Berrett Ltd.
- 7.4—Fruit Market Reports by the State Fruit Advisory Board.
- 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd., Haymarket Sales: Poultry, Grain, Cattle, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
- Night Session, 7.15 to 11.
- 7.16—Under the auspices of the Town Planning Association: Professor Smith, University of Melbourne, Town Hall and National Character.
- 7.30—Under the Auspices of the New Settlers' League: Cr. B. F. Hall, Panten Hill.
- 7.45—Mr. Clements Langford: The Construction of the Cathedral.
- 8 to 10—Concert by The Association for the Advancement of the Blind.
- 10—"Argus" and "Herald" News Services; British Official Wireless News from Rugby; Meteorological Information.
- 10.5—League Orchestra: Stundchen (Czibulka).
- 10.9—Violin solo: Humoresque (played by L. Brunnett), (Dvorak).

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- 10.12—Raymond Ellis, baritone, by permission of J. C. Williamson Ltd.: Selections from his repertoire.
 10.22—League Orchestra: Post and Peasant (Supple).
 10.34—Violin and flute duet: Schubert's Serenade (Schubert).
 10.39—Raymond Ellis, baritone: Selections from his repertoire.
 10.49—League Orchestra: Minuet in G. (Beethoven).
 10.53—Tela: Piano, Violin, Bass Clarinet, Lisoltta (Adam).
 10.55—Violin solo: Morria Dance (German), played by C. Steinfert.
 10.57—League Orchestra: Blue Danube Waltz (Strauss).
 11.—God Save the King.

TUESDAY, APRIL 13.

Midday Session 12 noon to 2 p.m.

- 12 noon—Time Signal; British Official Wireless News from Rugby; Reuters and the Australian Press Association Cables; "Argus" and "Herald" News Services; Shipping Intelligence.
 12.45—Stock Exchange Information.
 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports.

- 1.—Time Signal.
 1.1—Studio Orchestra, suite: Audlnusia (Miramontes).
 1.15—Adele Crane, soprano, by permission of J. C. Williamson Ltd.: Blackbird's Song; I hear a Thrush at Eve; Heart's Desire.
 1.25—Agnes Fortune, pianoforte solo: Etude (Friml).
 1.30—Studio Orchestra: La Gazza Ladra (Rossini).
 1.40—Adele Crane, soprano; Villa, Pison of Pau; I wonder if Love is a Dream.
 1.50—Studio Orchestra, selection: Wildflower (Youmans).
 2.—Close down.

Afternoon Session, 3 to 5.

- 3.—Official Opening of Autumn Garden Week by the Rt. Hon. Lord Mayor of Melbourne, Sir William Bruntton.
 3.15—Presentation of Prizes in the Sun Pictures Vegetable Garden Competition.
 3.20—Lecture: Autumn Garden Week—Rose Culture, by Mr. Jas. Allan, President National Rose Society.
 4.—Studio Orchestra, selection: Giguelee (Godfrey).
 4.10—Mignon Moreland: Infant Welfare.
 4.15—Studio Orchestra, fox trot: Bettolina (Wagner).
 4.30—"Au Pair," of Buckley & Nunn Ltd.: Talk on Fashions.
 4.45—"Herald" and "Argus" News Services; Reuters and the Australian Press Association Cables; Stock Exchange Information.
 5.—Close down.

Evening Session, 8 to 7.15

- 6.—Children's Hour, Stories by "Mury Gumleaf" Duena; Fox Little Knobs on my Back; Cherry Stanzas, Stories for the Littlest ones; How Joan became a fairy. Play: A Morning at School, by Mary Gumleaf and her Ginnul Babies.
 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
 6.53—Weather Synopsis; Shipping Movements.
 6.58—Stock Exchange Information.
 7.20—Fish Market Reports by J. R. Barrett Ltd.
 7.4—Fruit Market Reports by the State Advisory Board.

- 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd.: Hay-market Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
 Night Session, 7.15 to 11.

- 7.15—Mr. R. H. Wilmut, Everyday Chemistry: Paint.
 7.30—Mr. J. W. McKenzie: Significance of Anzac.
 7.40—Under the auspices of the University Extension Board, Mr. A. W. Jessop, M.Agr., Sc., B.Sc., Dip. Ed.: Some problems of Australian Agriculture.
 8.—By permission of J. C. Williamson Ltd., and by courtesy of Madame Pavlowa, the music incidental to the dance, transcribed from His Majesty's Theatre.
 During the first interval, from the Studio: Raymond Ellis, baritone, by permission of J. C. Williamson Ltd.: Selections from his Repertoire.
 During the second interval, from the Studio, Sir Geo. Cusack: A Civic undertaking.
 10.30—"Argus" and "Herald" News Services; British Official Wireless News from Rugby; Meteorological Information.
 10.40—Raymond Ellis, baritone: Selections from his Repertoire.
 10.50—Agnes Fortune, piano solo: Impromptu, Op. 90 (Schubert).
 11.—God Save the King.

WEDNESDAY, 14th APRIL.

Mid-day Session, 12 noon to 2 p.m.

- 12 noon—Time Signal, British Official Wireless news from Rugby, Reuters and the Australian Press Association Cables, Argus and Herald news services, Shipping Intelligence.
 12.45—Stock Exchange Information.
 12.50—Meteorological Information; Weather forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean forecasts, river reports.
 1.—Time Signal.
 1.1—Studio Orchestra: Suite, Gobweb Castle (Lehman).
 1.20—Raymond Ellis, baritone (by permission of J. C. Williamson Ltd.), selections from his repertoire.
 1.30—Studio Orchestra, Finale (Mozart).
 1.35—Dorothy Koxlough, viola solo, Nocturne (Schaukowski).
 1.40—Raymond Ellis, baritone, selections from his repertoire.
 1.50—Studio Orchestra, selection, Mignon (Thomas).
 2.—Time Signal.
 2.5—Result of Hurdle Race, Moonee Valley Races.

Afternoon Session: 3 to 5

- 2.35—Result of Two Year Old Race.
 3.—Studio Orchestra, In the Silence of Night (Rackemann).
 3.6—Result of Welter Plate.
 3.7—Miss S. V. Parker, in talks on other 3.—Miss S. V. Parker, in talks on other lands: Holiday in India, Hill Stations of the South, Gloom and Dargooling.
 3.22—Studio Orchestra, Andante Moderato (Brahms).
 3.20—Autumn Garden Week Lecture: The Secret of growing good Vegetables, Mr. E. G. Gibson, horticultural editor, The Australasian.
 4.—Result of Club Handicap.
 4.1—Studio Orchestra, Edmont (Beethoven).
 4.1—Agnes Fortune, piano solo, The Water Wagtail, (Scott).
 4.15—Sister Purcell, of Victorian Baby Health Association, Mothercraft.
 4.30—Result of Trial Handicap.
 4.31—Studio Orchestra, selection, Pink Lady (Coryll).

- 4.45—Herald and Argus News Services, Reuters and the Australian Press Association Cables, Stock Exchange Information, call up some of her little friends and they close down.

Evening Session 6 to 7.15

- 6.—Children's Hour, Stories by Little Miss Kookaburra, Little Miss Kookaburra will call up some of her little friends and they close down for the busy boys and a boys' story: Punch, the burly bear.
 6.45—Argus and Herald news services, Reuters and the Australian Press Association Cables.
 6.53—Weather Synopsis, Shipping movements.
 6.57—Stock exchange Information.
 7.2—Fish market reports by J. R. Barrett Ltd.
 7.4—Fruit market reports by the State Fruit Advisory Board.
 7.6—Market reports by the Victorian Producers Co-operative Co. Ltd. Newmarket cattle, pigs, Carcase Meat, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
 Night Session 7.15 to 11
 7.15—Mr. T. W. J. Cox, Railways Metropolitan Superintendent. The problems of a railway manager.
 7.30—Mr. A. E. McMickin: Talks on Great Writers—G. K. Chesterton.
 7.45—Capt. Peters, Books, Wise and Otherwise.
 8.—Concert by the Australian Literature Society—All Australian.
 11.—God Save the King.

THURSDAY, 15th APRIL.

Mid-day Session 12 noon to 2 p.m.

- 12 noon—Time Signal, British Official wireless news from Rugby, Reuters and the Australian Press Association Cables, Argus and Herald news services, Shipping Intelligence.
 12.45—Stock Exchange Information.
 12.50—Meteorological Information; Weather forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean forecast, River reports.
 1.—Time Signal.
 1.1—Studio Orchestra, overture: Lustspiel (Koch-Bella).
 1.2—Beatrice Gannan, violin solo, Romance in F (Beethoven).
 1.15—Adele Crane, soprano (by permission of J. C. Williamson Ltd.), Love you're a Friend; You, dear, and I; In a Garden.
 1.25—Studio Concert: Fidelio (Beethoven).
 1.35—Agnes Fortune, piano solo, Chant Neigre (Kramer).
 1.40—Adele Crane, soprano, selections from her repertoire.
 1.50—Studio Trio, Menuet (Bach).
 1.54—Studio Orchestra: Fox Trot, After I say I'm Sorry (Donaldson).
 2.—Close down.

Afternoon Session: 3 to 5

- 3.—Studio Orchestra, Eastern Fantasia (Laker).
 3.5—Adele Crane, soprano (by permission of J. C. Williamson Ltd.), selections from her repertoire.
 3.15—One Act Play, Louise Morehead and Mabel Dillon.
 3.25—Studio Trio, Andante (Tchaikowsky).
 3.12—Kenneth Ingham, baritone, All the Fun of the Fair (Easthope Martin); A Banjo Song (Homer).
 3.52—Tanpa Tieman, cello solo, Bagatelle (Paganini).
 3.57—Adele Crane, soprano, selections from her repertoire.
 4.—Studio Orchestra, Le Netum (Brett).
 4.14—Dorothy Roxburgh, viola solo, Abendlied (Eberhard).
 4.19—Kenne Ingham, baritone, Si J'etais Jardinier (Chaminade); Little Town in the Ould County Down (Carlo-Sanders).
 4.30—Autumn Garden Week Lecture, Cool Glass House Management, Mr. A. S. Orchard.

4.45—Herald and Argus news services. Rentals and the Australian Press Association Cables. Stock exchange information.
 5—Eyes—song Service from St. Paul's Cathedral.
 5.40—Close down.
 Evening Session: 6 to 7.15
 6—Children's Hour. Stories by Mary Cumfest. Poems: When Daddy was Ill. The Story Book. Songs by the Wattle Girl and Mary Cusack. Little Dame Cooey, and Where are you going to my pretty Maid? and others. Boys and Girls: A story from a Mission Station of two New Guinea Boys.
 6.45—Argus and Herald news services. Reuters and the Australian Press Association Cables.
 6.53—Weather synopsis. Shipping movements.
 6.57—Stock exchange information.
 7.2—Fish market reports by J. R. Barrett, Ltd.

7.4—Fruit market reports by the State Fruit Advisory Board
 7.6—Market reports by the Victorian Producers' Co-operative Co. Ltd.
 Night Session, 7.15 to 11.
 7.15—Venerable Archdeacon Aickin: Other Great Efforts.
 7.30—Under the auspices of the Health Association of Australis—Mr. W. P. Blyden, Oral Hygiene.
 7.45—Rev. Nichols: The Work of Social Systems.
 8—University Students' Night: Marshall Sumner, piano solo, Humoreske (Rogee); Capriccio (Bridge).
 8.5—Marie Magan, song, Fuchsia Tree (Quibel); Sombrero (Chamlaude).
 8.10—Isis Williams, song, Suicido (Glacenda).
 8.15—Autumn Garden Week Lectures, Gladolus

Culture, Mr. E. E. Prescott, F.L.S.
 8.30—Myrtle Disc, song, Shadow Dance, Dincauh).
 8.35—Speech, Mr. Stanley S. Addison, M.B.E., B.Sc., of the Commencement Committee, University Commencement.
 8.40—Hermia Batton, violin solo, 1st Movement De Piorot; Concerto in G.
 8.45—Molly Warren, song, To the Birds (Hue), Song of Florian (Goldard).
 8.49—Fanny, Tenorist: Song from Carmen, Mr. W. C. L. Townsend and University Musical Society.
 8.53—Speech, Mr. George Paton, B.A., President of the Students' Representative Council—Rhodes scholars elect, Commencement and Undergraduate, and
 9—Lee Chase, violin solo, Humoreske (Dvorsk).

Particulars of New Zealand Licensed Radio Broadcasting Stations

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2YF	Palmerston North Radio Club, The Square, Palmerston North	5	200	Monday, Friday, 7.30-9.30 p.m.
2YK	The Radio Broadcasting Company of New Zealand Ltd. Wellington	120	295	Tuesday, Thursday, Friday, Sunday, 8-10 p.m.
2YL	B. C. W. Spackman, 88 MacDonald Street, Napier	100	190	Thursday, Sunday, 8-10 p.m.
2YM	The Gisborne Radio Company, 4 Rutene Road, Gisborne	500	240	Tuesday, Thursday, Sunday, 8-10 p.m.
3AC	The Radio Broadcasting Company of New Zealand Ltd., Christchurch	10	240	Tuesday, Wednesday, Saturday, Sunday, 8-10 p.m. Friday, 6.45-7.15, 8-9.30 p.m. (Experimental Night).
*VLDN	The Radio Broadcasting Company of New Zealand Ltd., Dunedin	750	380	Every evening, 8-10 p.m.

*Temporary call-sign.

(Times given above are N.Z. MT, one and a half hours ahead of Sydney, or two hours ahead of Adelaide.)

9.5—Raymond Ellis, baritone (by permission of J. C. Williamson Ltd.), selections from his repertoire.
 9.15—A. A. Oakland, violin solo, Gradus Song (Schubert).
 9.20—Jessie Clark, songs, Si to m'aim (Per-golesi) By the banks (Old Scotch)
 9.30—Minstrel Show—Rev. Esau Legge and

Trinity College Students.
 9.45—Jazz Band, Ormond College Students.
 9.55—Raymond Ellis, baritone, selections from his repertoire.
 10.5—Herald and Argus news services. British Official wireless news from Rugby, Meteorological information.
 10.15—Choir, Hull Bright Abode (Tanquerai),

University Musical Society.
 10.21—Minstrel Show: Rev. Esau Legge and Trinity College Students.
 10.36—Jazz Band.
 10.46—Community Singing.
 11—God Save the King.
 Mr. Marshall Sumner, accompanist.

THE GREAT HOME INFLUENCE

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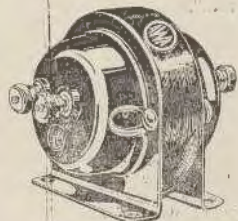
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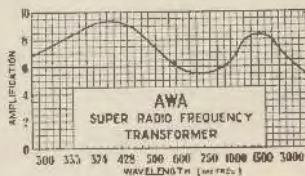
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