

WIRELESS WEEKLY

Registered at the G.P.O., Sydney, for

transmission by post as a newspaper.

VOL. 8. No. 5.

FRIDAY, MAY 28, 1926.



12,000 PEOPLE visited the Radio Exhibition, Melbourne, on opening day, 22nd May, and became acquainted with

"MAGNAVOX" SINGLE DIAL CONTROL SETS

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WEEKLY"
REFLEX.

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SPEAKER
STRENGTH
WITH ONE
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Distance no longer a bar!
UDISCO
RADIO RECEIVERS
Lay Australia at your
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Matthew Flinders in his frail craft could never have dreamed that his feat of seamanship in circumnavigating Australia would be duplicated nightly but a short century later.

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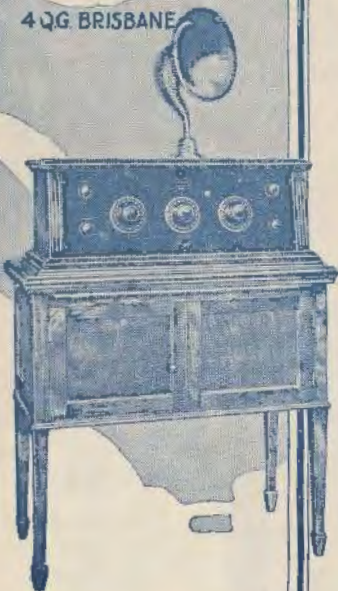
Housed in full polished cabinets of pleasing design, "UDISCO" Receivers are masterpieces of craftsmanship.

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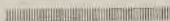
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WEST AUSTRALIA: A. C. McCallum Ltd., 96 Murray Street, Perth.



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WIRELESS ON SHIPS.

Amongst the conclusions reached by the Board of Inquiry into the loss of the steamer "Dorrigo" on the Queensland coast was that had the ship carried wireless, it is probable that a number of lives might have been saved. This, of course, is a conclusion that was reached weeks ago by every member of the community whose sympathies have gone out to the relatives of the unfortunate men who perished in this disaster.

What happened in the case of the "Dorrigo" may occur at any time with any one of dozens of steamers trading up and down the Australian coast without the means of summoning assistance instantly in time of trouble. With the example of the "Dorrigo" and the later experiences of the "Wonganella" and the "Eastern Moon" before them, it is a matter of no small wonder why the authorities do not take immediate steps to revise the present regulations governing wireless at sea. What would have been the fate of the two latter steamers had they not been equipped with wireless can only be conjectured.

At present marine wireless is administered by the Federal Government under the Navigation Act, which applies only to steamers travelling interstate or overseas. Under this act, wireless is only compulsory on ships travelling from one State to

another and which carry twelve or more passengers or fifty or more members in the crew. The "Dorrigo" carried no passengers and less than fifty on the crew list, so that, actually speaking, little value is placed upon human lives unless there happens to be fifty on board. It should be mentioned, of course, that the value of wireless on board a vessel lies in her ability to render aid to other vessels as well as to use it as a means of calling assistance to herself should it be necessary.

The position with regard to Interstate ships is clearly defined. The wireless section of the Navigation Act is administered Federally and, as such, each state is exempted from its provisions so far as ships trading purely within the confines of the State are concerned.

The onus is, therefore, entirely upon the ship-owner as to whether his ship shall carry wireless or not, and it is significant of the attitude of those companies controlling inter-state shipping that not one of these vessels carries a complete wireless telegraphy installation, although some of them are regularly engaged in the passenger trade.

Surely it is high time that the question of the framing of a new set of regulations was taken up by the Government; otherwise a far worse disaster than that which overtook the "Dorrigo" may quite easily occur.

A. W. WATT.

"Burginphone" Wireless Receivers



Australia's Best by Test

"Burginphone Master"—

A Receiver of Rare Excellence, with
Purity of Tone and Long Range

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BUILT LIKE A WATCH ————— NOTHING BETTER MADE

Highest grade condenser now within the reach of all.

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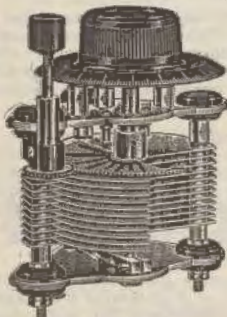
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The New Heath Vernier Condenser with ivory micrometer indicator, .0005, 42/-; .00025, . . . 39/-

Remember: What you gain in cheap condensers you lose in reception. INSIST ON

HEATH STRICTLY LOW-LOSS CONDENSERS
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The "Wireless Weekly" Reflex

Full Loud Speaker Strength with One Valve

"Wireless Weekly" has very much pleasure in presenting to its readers a very efficient one-valve Reflex receiver, which is the result of many months' experimentation by our Technical Editor. The old proverb that necessity is the mother of invention is without a doubt particularly true with regard to radio apparatus. Realising that a cheap efficient loud speaker receiver was very much needed, Mr. Slade has spent a considerable amount of time in perfecting this one, which without a doubt, will become very popular indeed.

Before beginning the constructional details we make one appeal to all readers, whether they be experimenters or broadcast listeners, viz.: Give our receiver a trial before criticising. From the results you will obtain, each and every reader will realise that the heading of our poster has not been exaggerated in the slightest degree. Furthermore, readers who are situated in the provincial towns where local broadcasting is taking place will recognise the folly of using a receiver which employs more valves when entertainment from the local station only is desired.

The average crystal user is invariably satisfied with the results he obtains, and usually speaks in glowing terms of the life-like purity which his crystal detecting circuit is capable of. The disadvantages associated with the ordinary type of crystal receiver, however, are rather numerous when one stops to consider the inconveniences which they invariably cause. These disadvantages may be summed up in the following order:—

- (1) Phones have to be cramped to the ears for long periods.
- (2) Only a limited number of persons can listen in at any one time.
- (3) Long distance reception is not consistently possible.
- (4) Constant readjustment of crystal is invariably necessary.

With the "Wireless Weekly" Reflex Receiver, however, all of the above disadvantages are entirely obviated, without losing the purity of reception which is associated with crystal detection. Even where listeners-in are situated within 200 miles of "A" class stations, phones need not be worn, as a small loud speaker with a moderately light diaphragm will give excellent volume, so that the whole family may listen to the programmes at any one time.

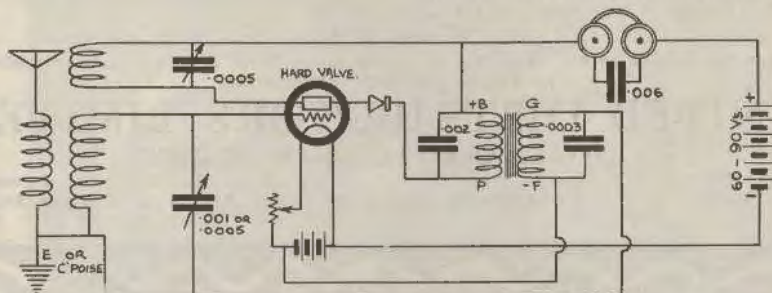
Disadvantage No. 3 is by no means barred with this receiver, as 3LO, 4QG, and 5CL can all be received in Sydney with very excellent phone strength. Disadvantage No. 4 is entirely eliminated by using the new type of Carborundum crystal detector, which is particularly suitable for this hook-up. Six different crystal units were tested in order to be perfectly sure that each one would give exactly the same results.

The photographs of the front and back views show clearly the positions of the various components used, and for the beginner the popular back of panel views showing wiring are also given. "Wireless Weekly" has used an internal mount, three-coil holder, but this is not absolutely essential. The ordinary type with face mounting or a panel plug and two coupling plugs may be used with equal efficiency.

Method and Order of Construction.

Drill panel and mount the following components: two variable condensers, one three-coil holder and four terminals; not forgetting to drill the three small holes at the bottom of the panel for securing the panel to the baseboard. Next, secure the baseboard components, one valve holder and one transformer, after which the panel and baseboard may be secured together.

The next and most interesting operation is the wiring, and the more attention and care paid to this the greater will be the reward, not only in



BURGESS—"They're on the Leviathan"—BATTERIES



The
QUAM
 Radio's Best Speaker

Invented and manufactured by James P. Quam, of the Quam Radio Corp., Chicago, U.S.A.,—the manufacturers of Quam Condensers, the only Condensers in the World with Pyrex end-plates—Quam Transformers, and numerous other of the very highest grade Radio products.

Mr. James P. Quam, who is recognised throughout the whole of the United States as one of the leading Engineers in all Radio production, visited Australia last year to consult with the United Distributors Ltd. on the production of Radio Sets that would be entirely satisfactory for all Broadcast reception purposes throughout Australia, and the result of his work, combined with that of the Engineers of the United Distributors, has resulted in their superlative "UDISCO" type Sets.

Mr. Quam, however, was not satisfied that any of the Loud Speakers available in Australia were giving satisfactory reproduction, and bent his inventive mind and whole energies towards producing something absolutely superior to the others, and satisfactory in all respects. The QUAM SPEAKER is the result.

One of the essential differences of the QUAM from all other Speakers is a Silver Drumhead Diaphragm of 3/1000 inch thick that not only faithfully reproduces every articulation of the human voice, but also gives a musical tone that cannot be equalled by any other Speaker on the market to-day.

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See the QUAM on our Stall, No. 14, at the Radio Show; or at your nearest dealer
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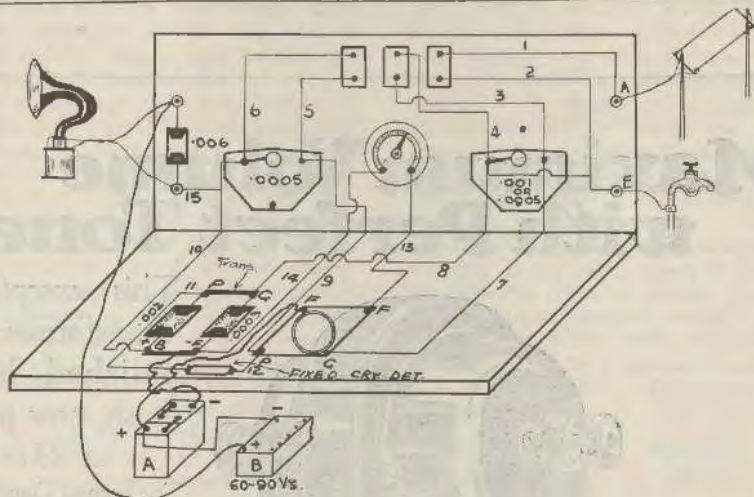
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appearance but also the results. Carefully following our back view showing the point to point wiring. Particular care should be taken to see that the six flexible wires used for connecting up the coil holders are of good quality, and that the spills at the ends of the wire are making proper contact with the wire. If either pairs of flexible leads going to the grid and plate coil are reversed, the proper reaction effect between these two coils will not be obtained.

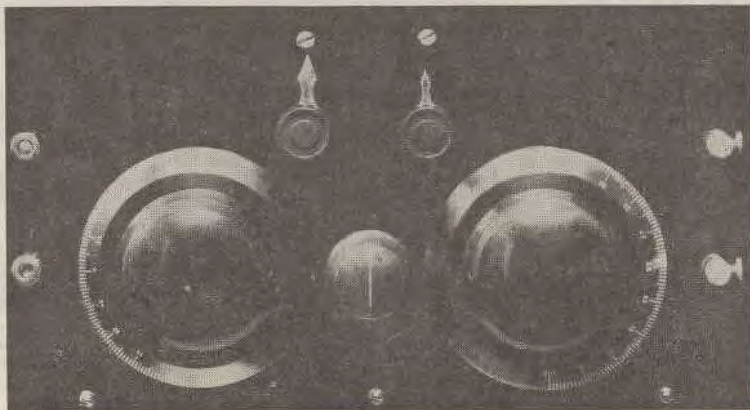
A Word of Warning.

Don't substitute other values of fixed condensers. Exhaustive experiments have been tried with all reputable makes of transformers and valves, and for general all-round efficiency the values as shown have been found the best. Be particularly careful with the soldering of joints; a clean hot iron, a good flux (not spirits), and well cleaned

surfaces will ensure a professional looking joint which will run and hold like glue.

The wiring completed, connect up the batteries as shown. It will be readily observed that the positive A goes direct to left hand F terminal of valve holder, the negative A goes to the -F terminal of transformer. The positive A and negative B are linked together permanently (positive = red terminal or + sign; negative = green terminal or - sign). Where dry cell valves are used for filament lighting the centre terminal or carbon connection is the positive, and the side terminal or zinc connection is the negative.

The following valves were used during the tests of the receiver, all of which gave very excellent results: Bright-emitters, Radiotron 201A, D.V.5, True Blue, Marconi R, Ediswan, Cossor; Dull-emitters, D.V.3, True Blue, Philips B406. From 60 to



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This exceptional
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The keenest Transformer
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AWA Audio Frequency TRANSFORMER

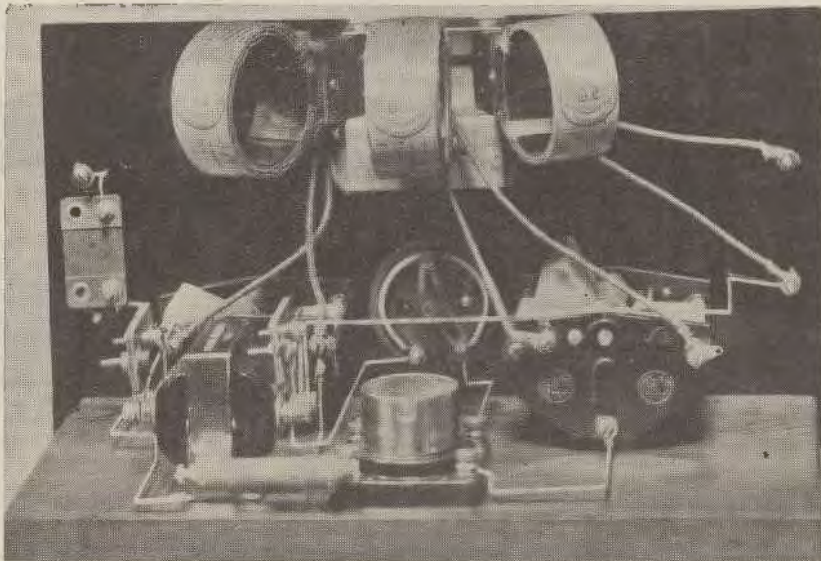
90 volts will be found to be the most suitable plate voltage, but the constructor will be very wise to experiment with various voltages, until he finds the one which gives him the best results.

The tuning of the receiver is very simple; if the fixed carborundum crystal is used, no crystal adjustments whatever are necessary. For preliminary tuning the primary and grid coil should be coupled fairly close together. Rotate both variable condensers until the station is received. Then tighten the coupling of the plate coil until the desired volume is obtained. For local loud speaker work the reception is very hard to beat; the purity, volume and faithfulness of reproduction can only be realised by giving it a trial. Pride of creation is in every Australian, but lack of technical and mechanical knowledge often deters the crystal enthusiast from attempting to build the ordinary type of multi-valve loud speaker receiver. With these back of panel views, however, and the knowledge that the hook-up is of Australian origin, together with the facts that the upkeep and initial cost is very low, we trust that each and every crystal owner will not be satisfied until he has built the "Wireless Weekly" Reflex.

For the more advanced readers we have pleasure in briefly describing the theory of the above Reflex. The ordinary type of crystal receiver is

stood that the amplifier cannot amplify what the crystal cannot detect, so that if a crystal becomes even slightly less sensitive than when new, the ultimate loud speaker reproduction is considerably reduced. By reflexing* a valve ahead of the crystal, however, the volume and range is far in excess of that possible with an ordinary audio amplifier attached to the crystal. From a study of the circuit diagram it will be seen that both grid and plate circuits are tuned. The energy from the aerial is directly and magnetically coupled to the grid of the valve, which in the first instance amplifies the incoming energy, then passes on to the fixed crystal detector, where it is rectified and passed through the audio transformer, back to the grid of the valve again. During this process it is again amplified. Coil recommended for use with this receiver:—

Station.	Primary.	Secondary	Tuned Plate.
2WW	15	35	35 or 50
2KY	15	35	35 or 50
2BL	35	50	50 or 75
3LO	35	50	50 or 75
4QG	35	50	50 or 75
5CL	35	50	50 or 75
2FC	100	150	150 or 200



not always satisfactory for loud speaker reception, even when it is followed by two stages of audio frequency amplification. It will be readily under-

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

BURGESS—"Power! Harmony! Endurance!"—BATTERIES



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FOR QUALITY, TONE AND DEPENDABILITY.

IGRANIC.

We have recently landed a complete range of additions to the famous Igranac components, and the Dual Variable Condenser is a typical specimen.

The most interesting, however, are the Igranac Supersonic Heterodyne Outfits, which have created a tremendous impression. The first shipment was instantly sold, and orders for the next, shortly to arrive, will be executed in rotation.

BROWN.

There are now EIGHT models from which to choose, and one of the new types, the Cabinet, is illustrated. Prices range from two pounds to twenty guineas, and there is a model to suit every pocket.

At the back of this name stands an organisation rich in the experience resulting from many years devoted to the production of Headphones and Loud Speakers. They are unexcelled for tonal purity and volume.



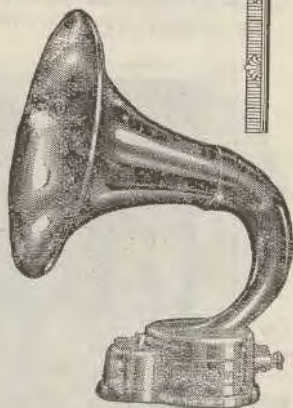
The IGRANIC Indigraph knobs and dials. Enables the tuning for any station to be recorded for future reference. In genuine bakelite. Four sizes. 2/- to 5/6.

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We have been appointed sole agents

for the Oldham (Special Activation Process) Battery, and you should investigate its unique merits before investing in an accumulator.

Due to the patented method of construction, the plates are rendered active right through, and not merely on the surface as in most batteries. The charge is obviously held much longer, with consequent large saving in charging costs.



The BROWN BA Loud Speaker. Small in size, small in price, but a giant in performance. £2.

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SYDNEY: 115 Clarence Street.

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And at LAUNCESTON; also from J. W. B. Gardam, PERTH.

Write for Booklet No. 18, post free.

BRITISH **Brown** THROUGHOUT

Materials necessary:—

- 1 panel, 12 x 7 x 3/16 inches.
- 1 baseboard, 12 x 7 x 3/4 inches.
- 1 .001 or .0005 variable condenser (grid circuit).
- 1 .0005 variable condenser (plate circuit).
- 1 valve
- 1 rheostat to suit valve used.
- 1 holder to suit valve used.
- 1 transformer, 4 to 1 or 5 to 1 ratio.
- 1 fixed carborundum crystal detector.
- 1 .002 fixed condenser, good type.
- 1 .006 fixed condenser, good type.
- 1 .0003 fixed condenser, good type.

Numerical order of Connections (for readers who cannot follow circuit diagrams).

Nos. 1 to 6 may be made with flexible connections. Nos. 1 and 2 link the aerial and earth with the primary coil holder, No. 3, 4, 5, and 6 link the fixed and moving plates of the two variable condensers. Be particularly careful to see that Nos. 3 and 5 go to the fixed plate connection. No. 7 links the fixed plate connection of the variable condenser with the G terminal of valve, and No. 8 links the G of transformer with the moving plate connection of the same condenser. No. 9 links the P terminal of valve holder with the fixed plate connection of second variable condenser, and No. 10 links the positive B terminal of transformer with the moving plate connection of the same condenser. No. 11 links the P terminal of transformer with one connection of the fixed crystal detector, and No. 12 links the other terminal with the P terminal of valve holder.

No. 13 links the right hand terminal of rheostat with the right hand F terminal of valve holder, and No. 14 links the —F terminal of transformer with the left hand terminal of the rheostat. No. 15 is a short link taken from the moving plate connection to the lower phone terminal. This completes the wiring. Be particularly careful about the by-pass condenser; the .002 is connected directly across the P and positive B terminals, and the .0003 across the G and negative F terminals of the transformer. The only other condenser necessary is the .006, which is wired as shown directly across the phone terminals.

* Arranging the circuits so that the valve amplifies at high and low frequency.

MORSE CODE COMPETITION.

Geo. P. Wood, "Burwood," 41 Alpha Rd., Willoughby, was the winner of the Morse Code Competition from 2WW on Tuesday, May 4th.

The word was LAVCKBWOLC.

The word transmitted on May 4th was NVB8QWERTUKLP. Winner: Donald Gard, "Restwell," Wyndora Ave., Harbord.

THE FORTHCOMING TESTS WITH OUR AMERICAN FRIENDS.

The following details of the transpacific tests are published for the benefit of some of our country readers, who we fear, have not been posted regarding times of transmissions, etc. Test "A" will consist of the transmission or reception of an official test message of 500 words. Transmission and reception need not necessarily be sent to or taken from the same station. The only stipulation is that these messages must be sent between May 22nd, and June 6th.

Test "B" consists of two 24 hour periods of transmission or reception. The object of these two test periods is to discover the hours, at which transpacific working is possible, and also the relative reliability of the various wavelengths used. The times set apart for these tests are May 28th, 6 p.m. to May 29th, 6 p.m. and the same hours of June 4th to 5th.

We particularly appeal to all Australian experimenters who have short wave receivers to take particular notice of the relative strengths of signals during the 24 hour period. Make exhaustive notes and send along your rough data to "Radio," then from these collective and general reports, we should be able to publish true and accurate information regarding the best wavelength for day or night transmissions with America. To say that this data is extremely valuable is only putting it very mildly. Our American friends are doing their best to make these tests a huge success. Let us see to it that we in Australia do all we can to assist them.

ESSAY COMPETITION.

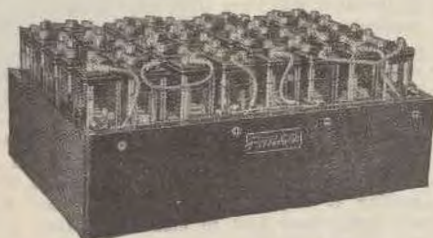
The children of to-day are the broadcasting audience of to-morrow, and their views on wireless are naturally welcomed by those who control radio entertainment. The Broadcasting Company of Australia, 3LO, Melbourne, has offered prizes to the amount of twenty guineas for essays on "Broadcasting—Its Advantages and Possibilities." For essays by pupils over 14 years, prizes of £3, £2, and £1, are offered with half a guinea each for the next best eight. Similar conditions apply for pupils under 14 years, the only difference being that essays in the senior section should be about 800 words and 600 words for the juniors. It should be noted that each essay has to have a certificate from the headmaster of the school that it is the unaided work of the competitor. Entries will be received up till May 31st, 1926, either at the Broadcasting Company, Cambridge Buildings, 193 Collins Street, Melbourne, or by the headmaster of the pupil's school.

It's the Diamond Grid

THAT DOES IT !!

Average voltage 5 to 10 per cent. higher than 90 volts of dry "B" battery. This is because dry cells are rated at their initial voltage. A 90-volt dry "B" battery delivers 90 volts only at the very beginning of its life. After that the voltage falls to 80, then to 70, then to 60 or below before the rated capacity of the battery is obtained, and it is thrown away, so that the average voltage of a 90-volt dry battery is only 72 to 75 volts.

An 83 X or 86 H starts at a little over 84 volts, which gradually falls to about 76 volts before recharging is necessary, so that the average voltage even with infrequent recharging is 80 volts. In fact, the minimum voltage of an 83 X or 86 H is above the average voltage of a 90-volt dry battery.



THE NEW "EIGHTY THREE X"

"Replaces 90 Volt Dry Battery"

PHILCO B BATTERY - Just Landed

A large consignment of the New Philco "Eighty Three X" Type has now arrived. Outstanding orders can be fulfilled and all new business satisfied.

Type	Voltage	Capacity	Price
83 X	Replaces 90-volt Dry battery	3000 milliamp hours	£8/15/-

**GLASS CELLS — BEAUTIFUL CABINET — CHARGE INDICATORS
TREMENDOUS CAPACITY—EASILY RECHARGED—DRYDYNAMIC
FEATURE — EFFICIENCY — ECONOMY**

Illustrated Catalogues will show details of all other types of A and B batteries.

— ALL DEALERS —

WHOLESALE DISTRIBUTORS:

NEW SYSTEM TELEPHONES PTY. LTD.,

280 Castlereagh Street, Sydney.

(and at Melbourne and Adelaide).

An Efficient Indoor Aerial for Reception of Short Waves

Many visitors admired the small indoor aerial displayed at the Exhibition by 2SX, and the following constructional details might be helpful. While it is essentially used for the reception of short waves there is no reason why it could not be used for the higher broadcast wavelengths, when used with a suitable receiver. Those experimenters who are real short wave D.X. hunters will be very familiar with the foreign noises caused by vibrating guy wires, etc. By careful experimentation it is possible to trace these faulty guys, but even when they are broken several times with insulators, the interference, which sometimes resembles static, is not always entirely eliminated when using the outside aerial.

At the writer's home, on a windy morning it is almost impossible to read even moderately strong signals, owing to this annoying interference. By transferring to the short indoor aerial, however, the signal strength is not reduced, but the interference is invariably cut out.

The secret of consistent long distance Morse reception is the quiet operation of the receiver, and without a doubt the major proportion of the interfering noises on short waves can be traced in or very near to the receiver. Don't be in too big a hurry to tell the other chappie that you cannot read his signals owing to static, if you haven't paid particular attention to find out where your interfering noise originates.

By the assistance of a friend listening-in on

your short wave receiver you will not be long finding the offending guy or guys. In some cases the clothes line will be found to cause quite a lot of trouble, in which case you will be forced to remove the line to a spot farther away, or else break the wire at frequent intervals with insulators.

Construction of Aerial.

First measure the length of the room or shack where the aerial is to be used. Next, cut off lengths of aerial wire (Mars preferred), to the desired length, making allowance for the insulators to go on either end. Next, secure two insulators and stretch the wire out fairly taut, making sure that an equal strain is taken by the five lengths of wire. One ladies' glass bangle will be required for every two foot of wire. Carefully tie on five pieces of yellow thread at equal distances round the glass ring leaving 4 or 5 inches of thread to secure to aerial. They should now be secured to the aerial wires at equal distances apart.

The feeder may consist of a heavy flexible wire or it may be another smaller aerial similar to the main one. See Fig. 1. The result of your labours will be an efficient indoor aerial with which you will obtain more consistent long range short wave reception than any outdoor aerial will give you. Try it for yourselves and send along the reports of your reception to "Wireless Weekly." Those experimenters who intend taking part in the forthcoming tests with our American friends will be very wise to use this type of aerial.

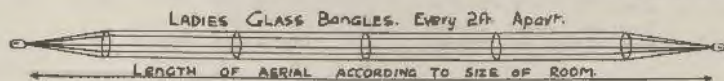


Fig. 1—Cage Indoor Aerial.

A STUDIO AUDIENCE.

The absence of a visible audience is a disquieting factor to many performers before the microphone, who crave the sympathetic "atmosphere" which only the presence of listeners can create. An attempt to overcome the unresponsiveness of the studio has been made by the directors of the WLW broadcasting station at Cincinnati. An auditorium with seating accommodation for several hundred visitors adjoins the studio, from which it is separated by soundproof windows. The performance is heard on loud speakers.

TRADE AMALGAMATION.

We are informed that an amalgamation has taken place between the firms of Keith Stokes Pty. Ltd., and Gelston S. Gow.

This firm will now be in a position to add new lines to their manufactures, and be able to turn them out at bedrock prices.

The head office of the amalgamated companies, trading as Keith Stokes Pty. Ltd., incorporating Gelston S. Gow, will be 27-29 King Street, Sydney, and the factory at 130 Sussex Street, Sydney.



There is no Substitute for Satisfaction

SIX REASONS WHY CLYDE MEANS SATISFACTION

Negative Plates—Made from 99 per cent. chemically pure oxides, like slabs of grey granite, such is their durable appearance.

Separators—Not just merely sheets of insulation, but chemically treated sections of selected wood grown in Australian forests.

Positive Plates—A thorough engineering job, with the oxides effectually keyed into position and smooth and satiny in appearance.

Bottom Rests—Neatly rounded to prevent lodging of sediment, causing internal short circuits, with a large sediment space, to carry the natural filling up of silt in the bottom of the battery.

The Rubber Case—Indestructible—acid-proof and leak-proof—fabricated by the most modern machinery to do justice to the plates it houses.

Covers—Moulded from high-grade rubber and cured and fashioned in the largest rubber factory in Australia.

Clyde Batteries are manufactured by the largest engineering organisation in Australia, and are the result of exhaustive experiments to find the ideal battery to withstand Australian climatic conditions.

Ask Your Dealer for Clyde

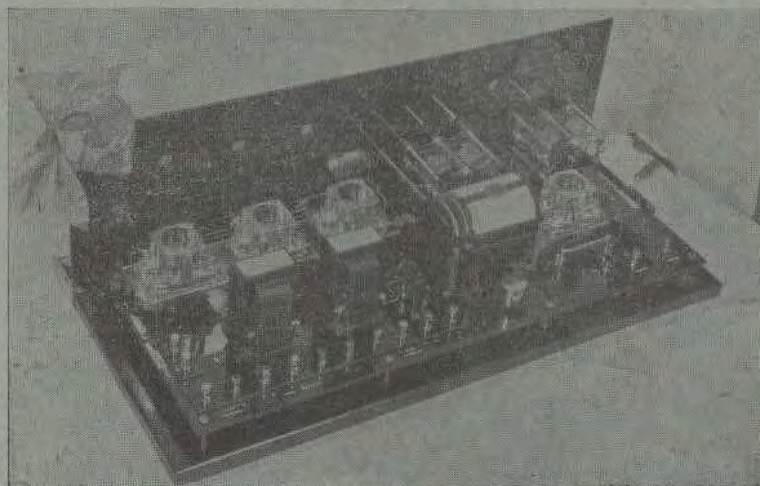
Manufactured by

CLYDE ENGINEERING CO. LIMITED
SYDNEY

THE PROOF

FIRST PRIZE at the RADIO EXHIBITION was awarded for Selectivity and Sensitivity to the Receiver fitted with

RADIOKES PRECISION COILS



The Browning Drake Receiver, which won first prize. It incorporates "Radiokes" Precision Coils.

(Copy.)

17 Empire Street, Haberfield, 17th May, 1926.

Dear Sirs,—

It may be of some interest to you to know that my receiver which won first prize in the recent Radio Exhibition on the score of selectivity, sensitivity amongst other points, was equipped with "Radiokes" Precision Coils for the Browning Drake Circuit.

These coils were used just as purchased, and the results obtained have certainly justified my selection.

Wishing you every success.

Yours faithfully,

(Sgd.) T. P. WATSON.

Messrs. Keith Stokes Pty., Ltd.,
Montana House, King Street, Sydney.

Distributors:

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What are RADEX VALVES ?

Radex Valves are Standard 201A and 199 Valves, which we guarantee are up to the Standard of any 201A or 199 Valve made.

TYPE 201A.

Works from 6 Volt Accumulator.
Consumes .25 Amps.
Base is Standard 201A, Bakelite, 4 Pin.

NEW PRICE
8/9

TYPE 199.

Works from 3 Dry Cells.
Consumes .06 Amp.
Base is Standard 199, Bakelite.

EVERY RADEX VALVE is most rigidly tested in the Jewell Valve Tester before despatch.

High-Grade Porcelain Sockets for these Valves—

The "H. & H. Pussyfut" 201A Socket Price, 4/-
The "Sensory" Porcelain Cushioned 199 Socket Price, 3/3

"Yours for Lower Prices"

THE ECONOMIC RADIO STORES

28 ROYAL ARCADE, SYDNEY.
Phone: M 3049.

569 HUNTER ST. WEST, NEWCASTLE.
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If you've always wanted

True Blues

now they're within the reach of all

It is quite evident that TRUE BLUES have caused a decided change in the public's Valve buying habits. Where heretofore they were content with noise, thousands are investing a little more to get pure music, and speech free from microphonic noises.

Why let your guests say your Set is "like a bad gramophone"? (Why suffer and blame Static for microphonic Valve noises? (Really, there is very little Static here.) Try TRUE BLUES, the only non-microphonic Valve in the world.

TRUE BLUES are still the highest priced and sturdiest Valve on the market, but are cheaper in the long run, because they have 2 to 3 times longer life, and consume considerably less current, thus affecting a big saving in "B" Batteries.

TRUE BLUES are available to fit both Standard and Dry Cell Sockets. Obtainable at leading Radio Stores. Don't accept cheap substitutes. Look for the brand on the base, "Brighton True Blue."

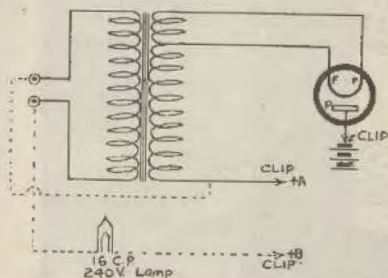
Sole Agents:

PARSONS & WHITEMORE LTD., 30 Market St., Sydney

Queries Met by Every Beginner

(1) "I have a Tungar rectifier which has given me excellent service for the past three years. It is not fitted with the extra clips necessary for charging "B" batteries, and as I have recently bought a 90 volt Philco battery I would very much appreciate your kindness if you would publish a drawing showing the alterations of connections necessary for charging this battery."

A. The drawing, Fig. 1, shows clearly the extra connections necessary for charging "B" batteries. It will be readily seen that for high voltage charging the transformer is changed into the auto coupled type with its primary and secondary



windings in series. If, when making the connections as shown, the valve refuses to rectify, the dotted line connections going to the primary coil of transformer should be reversed.

A 16 C.P. 240-volt carbon filament lamp controls the plate voltage so that a good steady charge of from 200 to 300 milliamps is always obtained. For "A" battery charging the only alteration necessary is to use the other clip. Remember, of course, that the plate of the valve goes to the negative and the transformer connections, whether for "A" or "B" battery charging, goes to the positive terminal.

(2) "What valves shall I use?" is a query put by another reader.

A. Briefly, all receiving valves on the market can be grouped into three lots: Those designed for H.F. amplification, those specially suitable for L.F. amplification, including power valves, and those not designed for any special function and know as general purpose valves. Just which type is most suitable will depend upon what circuit is used. For instance, if H.F. amplification is used, it will probably be wise to select H.F. amplifiers for this duty. In the case of the detector and audio stages the general purpose valves will be O.K. except where extra volume and tone is desired, when the second audio valve may be replaced by a power valve.

This choice from the three groups is really all

the choosing that has to be done, except that the constructor must definitely decide whether he intends using dull or bright emitter valves. This, of course, will depend solely on individual circumstances. Valves with the identical characteristic can be obtained both with the dull and bright emitter types.

(3) Another reader writes: "Are tapped coils with switches as efficient as plug in coils?"

A. It is very doubtful whether the ordinary type of tapped coil with a single pole switch to control the number of turns in use is as efficient as the plug-in type of coil. By using a double pole dead-end switch, however, you can avoid the inconvenience you speak of, and still obtain maximum efficiency. An article dealing with the above switching method will shortly be published in "Wireless Weekly."

PROGRESS IN JAPAN.

News comes from Tokio of the organisation of the Nippon Wireless Telegraph Company with a capital of 20,000,000 yen (nominally about £2,000,000).

It is the general opinion that the organisation of the new concern means that Japan is at last in sight of attaining an independent position in her telegraphic communication with the outside world, for which hitherto, she has largely been dependent on foreign countries.

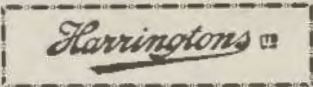
The inconveniences of depending on foreign-owned cables were most strikingly demonstrated during the Washington Conference and keenly felt by the late Premier Kato.

The Japanese Government has transferred various properties to the new company, and will thereby have a financial interest in it. Among the properties transferred are the Haranomachi Wireless Station, the Iwaki Station, and some land purchased by the Department of Communications near Nagoya for the erection of another station. The total value of the Government's investment is about one-ninth of the total capitalisation of the company.

The station near Nagoya will communicate with Europe, and will be completed within four years, while a new station near Tokio, for direct communication with America will be completed in two years.

BROADCASTING FOR DUTCH EAST INDIES.

The Dutch East Indies are to have their own "Radiophonic Broadcasting Company." The Government at Batavia, Java, is negotiating with those interested for the granting of broadcasting rights over the whole Dutch Indian Archipelago for a period of ten years. This should provide a new field for some of our D.X. hunters.



MAR-CO Lines Just to Hand.

- Mar-co Resisto Coupler (complete with By-Pass Condenser and Variable Resistance) 20/-
- Mar-co Variable Grid Leaks 1/5 to 5 megohms 7/-
- Mar-co Jacks, all types, from, each . . 2/-
- Mar-co Battery Switch, each 2/3



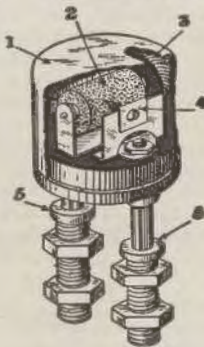
Mar-co Vernier Dial, each 16/6
(Be sure you get the genuine Mar-co Dial)

HARLIE FOOL DETECTOR

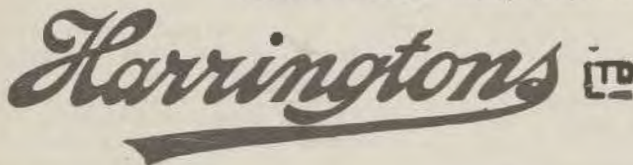
The wonderful New Rotary Crystal Detector — always in delicate contact.
Price 7/6

Specially adapted for panel mounting. Vibration cannot disturb your good point from the whisker. Standard equipment for lifeboats in the Mercantile Marine.

Detector with N.P. Cover removed.



OBTAINABLE FROM LEADING RADIO DEALERS OR



NEW SHIPMENTS JUST LANDING!

Thorola Loud Speaker

The greatest musical instrument of Radio. Pure Polished Bakelite Horn and gold Throat Band.
£4/10/-.



“MARS”
The New
Wonder
Aerial

50 per cent.
More
Volume

84 Strands of interwoven non-tarnishing wire.
In 100 ft. Reels 12/6

IMPERIA COILS (Honeycomb).

	Unmounted	Mounted
20 Turns	£0 1 8	£0 4 0
25 Turns	0 1 10	0 4 3
35 Turns	0 1 10	0 4 3
50 Turns	0 2 0	0 4 6
75 Turns	0 2 1	0 4 6
100 Turns	0 2 4	0 4 9
150 Turns	0 2 6	0 5 0
200 Turns	0 3 0	0 5 6
250 Turns	0 3 6	0 6 0

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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

MOVIE TALKS.

Miss H. J. Beegling, whose series of entertaining talks on "Movieland" and travel from the studio of 2BL have been so much enjoyed by listeners-in, is to continue these fascinating chats each week under the title "News from Hollywood."



Elsie Peerless. Australia's soprano song-bird, with 2FC for the last 18 months.

MASS SERVICE.

Sunday, May 30, Station 2BL will broadcast a Mass Service from the Sacred Heart Church, Avoca Street, Randwick. Mr. Cairn Bradley's Bible Class will be conducted from 3.30 until 4 in the afternoon, and an Organ Recital will be broadcast from the Chalmers Street Presbyterian Church. The evening service will be the Presbyterian service from Chalmers Street Presbyterian Church, conducted by the Rev. D. F. Brandt. The Manly Band will be broadcast from 8.30 until 9.30 p.m., and the remainder of the evening will be provided by Mr. Lancee Jeffrey, singing from the studio. Mr. Jeffrey's brilliant oratorio singing is particularly pleasing to the listeners-in.

BRILLIANT PROGRAMME.

On Monday, May 31, there will be broadcast by 2BL the annual meeting and distribution of funds of the United Charities Fund from the King's Hall, Hunter Street. In addition to the speeches to be delivered by his Excellency the Governor, Right Hon. Lord Mayor, the Hon. C. C. Lazzarini, M.L.A., and the Hon. Sir Albert Gould, with other gentlemen, there will be a brilliant programme, which is of

duets, solos, and recitations, under the direction of Mr. Roland Poster, of the Conservatorium of Music, Sydney. The accompanist on this occasion is Madame Marie Borani.

OBOE SOLOS.

On Tuesday, June 1, the Ambassadors' Salon Quartet are providing chamber and classical items to be broadcast by 2BL. Mr. Alfred Cunningham, whose exquisite baritone voice is always a source of delight, will be heard in choice numbers from his repertoire. Mr. Joseph Post, who is a master of at least three musical instruments, will play oboe solos. This wind instrument is heard all too seldom, and provides a lovely melodious tone quality in the hands of Mr. Post. Miss Claire Gooley, soprano, completes a particularly attractive programme, together with lectures by Mr. H. E. Crabb on "Class System" and Mr. Barnes on the third of his Real Ghost Stories. Mr. Barnes has succeeded in getting together some hair-raising material, and cold thrills are promised as his series of Real Ghost Stories continues.

FORTY VOICES.

On Wednesday, June 2, from the studio of 2BL will be broadcast the Orpheus Society, a male choir of 40 voices, under the direction of Mr. Penmann. The brilliant concerted work of this choir has been favourably commented upon on their previous appearance. The City of Sydney Band will provide strains of military music such as delight the public, and Dr. Luker will present the second of his lectures on "Japan—Moods and Reactions." The first of Dr.



Alexander Sverjensky, the well-known Russian pianist, broadcasting from 2FC.

It's so Simple!

Charge your
Accumulators yourself
this Easy Way



Simplicity and Economy characterises the Philips Battery Chargers. Plug your adaptor into any light socket, switch it on when you go to bed and when morning comes your battery is charged. There is no noise or any cause for worry whatever.

Charging once a week usually is sufficient for most batteries, especially when your set is equipped with the famous Philips B.406, the New Wonder Valve or the C.509 Valve.

Automatic regulation of the charging current is the special feature of Philips Battery Chargers.

They are complete "Full-Wave" Chargers, and as a result give maximum output, and furthermore, they require no supervision at all. Even a short circuit cannot damage the Charger.

PHILIPS SUPPLY TWO MODELS.

- No. 327 (Chiefly for Radio Batteries), Charging 1 to 6 cells (2-12) volts, with 1.3 amps. Each £6
No. 366 (For Radio or Motor Car Batteries) Charging either 1 to 4 cells (2-8 volts) at 6 amps, or 5 to 7 cells (10-14 4volts), with 3 amps.

OBTAINABLE AT ALL RADIO DEALERS

Makers of
the Famous
PHILIPS
LAMPS

**PHILIPS
BATTERY
CHARGERS**

PHILIPS
VALVES
Give Perfect
RECEPTION

Laker's lectures has established him firmly in public favour, and it is anticipated that admiration will increase with the delivery of the succeeding talks. On this occasion the speaker will deal with the materialistic side of Japanese development. Mr. J. M. Prou-



Mavis Dearman, 2FC soprano.

tee will resume his talks on Foreign Affairs, dealing specifically with the European situation, and answer on this occasion written inquiries.

IMPERIAL ORCHESTRA.

On Thursday, June 3, Hoyt's Imperial Orchestra, playing from the Theatre de Luxe under the direction of Mr. L. Hart, will provide orchestral music. The Sydney Players present the first act of a comedy in three acts entitled "The Amateur Detective," and Mr. Fraser Anderson will continue his series of talks on "Astrological Aids to Character." Miss Helena Stewart, a dramatic soprano of outstanding quality, will sing two brackets of two numbers. Miss Stewart is presenting songs in her own inimitable way, singing with great dramatic force and power.

DANCE NIGHT.

Friday, June 4, will be one of 2BL's dance nights, and Mr. Cec Morrison with his Gloomechasers will live up to their reputation for chasing away the last vestiges of the blues. Mr. Morrison in person will also be heard at the piano playing request numbers which are asked for by telephone and simultaneously broadcast. Miss Margaret McKenzie, soprano, will be the singer on this occasion, and the senior sporting expert of the "Sun" will discuss form and tips for the following day's racing. The Travelogue Party will be introduced to fresh bursts of Egyptian splendour prior to returning to Australia.



RADIO IN GERMANY.

All the transmitting stations are owned by the Post Office authorities, but the broadcasting service is in the hands of private companies. The Post Office supplies the station, and in return participates in the capital of the companies to the extent of half the shares. There are nine stations operating on wavelengths between 279 metres (Bremen) and 505 (Berlin). The power used varies between 1 and 8 K.W.

The same programme can be broadcasted simultaneously from several stations.

RUSSIAN BROADCASTING.

Broadcasting started in Russia in October, 1924. The Russian Broadcasting Company is called "Radio Peredatcha."

There are 10 broadcasting centres, comprising 16 stations, although 95 additional stations are being contemplated in the very near future. The wavelengths are between 250 metres and 1450, and the highest power used 25 K.W.

SHORT WAVE TRANSMISSION.

Mr. Fred Schnell, who, you will remember, was selected by the U.S. Navy to operate their short wave experimental equipment on the recent cruise of the American Fleet to Australia, has just resigned from his official position as traffic manager to the American Radio Relay League, in order to become associated with the Burgess Laboratories at Madison.

Mr. Schnell was the first American amateur to work Europe.

The extensive research and engineering laboratories of the Burgess Battery Company offer him facilities for the further development of his experiments, probably unobtainable elsewhere.

We already read that with other famous engineers of the Burgess Company, including Donald Mix (who was in charge of the wireless on the Macmillan Polar Expedition), Mr. Schnell has been co-operating with the recent expeditions to the North Pole; the Burgess Battery Company not only equipping the expedition with batteries, but also giving the services of their engineers, who designed and built the short wave transmitters and receivers now being used.

Full details, which will be particularly interesting to amateurs, will shortly be received from the Burgess Company, and will be published in these columns.

INDEX OF BROADCASTING STATIONS.

Some time back I mentioned that the Burgess Battery Company would send along to any interested person an instructive booklet, and so great was the demand that supplies soon ran out. I am told that a further shipment is now nearing Australia, and those on the waiting list will shortly be supplied.*



Barbara Bristoe, 2FC contralto, winner of the Auburn Contralto Championship, 1926. Mittagang Championship, 1926, and others.

CURIOUS CURRENCIES.

On Saturday, June 5, Mr. W. E. Lewis and Miss Dorrie Ward collaborate in duets, and will also sing solo numbers. Mr. Reg Harrison, comedian, and Miss Grace Saville, contralto, will be heard, together with music broadcast from the Enmore Theatre, where the Enmore Symphony Orchestra are playing under the direction of Mr. F. Watkins. Mr. D. Raymond continues his lectures on Coins and Coinage, dealing on this occasion with "Curious Currencies."

BROADCASTING NOTES FROM 3LO. PIANO RECITALS.

Through the medium of 3LO, listeners-in are to have the opportunity of hearing a brilliant young pianist who is also destined to make his name in dramatic production. Bernard Julian Russell, who will give a series of piano recitals during the coming week, is a young Englishman who has been particularly successful in orchestral work in Sydney and Melbourne and has conducted several high class orchestras. Now, however, he is to enter the field of drama in a role which requires a young man who is also a clever musician. Mr. Guy Bates Post, the famous American actor is seen to produce a new drama called "The Climax," in which there are only four characters. Mr. Post is a music professor in the play, and he has two brilliant pupils, one a singer, and the other a pianist. Miss Dorothy Brunton will play the former role. Mr. Russell's pianoforte will be a welcome addition to 3LO's programme.

THOUGHT AND THINKING.

During the afternoon sessions on Monday and Wednesday, Mr. J. M. Prentice is continuing his talks on "A Course in Philosophic Thought" and "Modern English Poetry" respectively. Both of these courses are receiving a considerable amount of attention, and many listeners-in are interested at being initiated into the mysteries of philosophic thought and thinking. On each Wednesday afternoon at 3.30 there is a special operatic session, when some famous opera is illustrated with gramophone records provided by the H.M.V. Company, introducing Caruso and other famous artists. Saturday afternoons are being devoted entirely to sport, and arrangements have been made whereby, in addition to racing information being placed on the air immediately after the results are known, the various Rugby League football matches will be described by an expert broadcasting direct from the ground.



Brian Aherne, distinguished actor, who recently broadcast a talk from the dressing-room, King's Theatre, Melbourne, through 3LO.

BILLY BUNNY'S BOOSTERS.

No Cook's Tourist Guide ever had more sight-seers under his care than has Mr. Horace Book, the popular "Billy Bunny," of the 3LO, Melbourne, Studio. Every Sunday evening his Studio is swarmed by eager children and the equally excited parents who have come to see the mysteries of where the sound comes from. At times the accommodation is insufficient to meet the needs of the large number of people who arrive there and the tour has to be made in sections. Some are becoming regular visitors, and each time they come they bring new friends to whom they proudly ex-

A VALVE FOR EVERY PURPOSE



DULL EMITTER (DRY CELL) TYPES.

A109 1 to 1.3 Volts, .06 Amps.
A306 3 Volts, .06 Amps.
13/6 each.



The Wonder
Valve.
B406.
13/6.

BRIGHT EMITTER (ACCUMULATOR) TYPES.

B406 3 to 4 Volts, .1 Amps.
13/6 each.
C500 5 Volts, .36 Amps.
13/6 each.
DI, DII 3.5 Volts, .5 Amps.
7/- each.
DIV, DV 3.5 Volts, .6 Amps.
7/- each.

Supplied in either English or American Caps.

Have you used the Famous "LION MICRO" PERMANENT DETECTOR?

No more lost concerts, no auto-blokers.

A sensitive point on every spit.

PRICE—3/6 each.

MAIL ORDER DEPARTMENT—60 GOULBURN STREET, SYDNEY.

EASY TO BUILD—EASY TO USE

The WONDERTONE HOME CONSTRUCTION RECEIVER is easy to build and easy to use, as the plan and building instructions are so clear and explicit that you cannot make a mistake. Letters of appreciation are continually arriving from all parts of the Commonwealth attesting the wisdom of the excellent results being obtained with the WONDERTONE HOME CONSTRUCTION RECEIVERS.

The Accessories, including EVERYTHING ready for assembling and using, such as—stained Maple CABINET, Bakelite PANEL, Drilled and Engraved, VALVES, A & B BATTERIES, BATTERY WIRING, VOLTMETER, THERMOMETER (with Accumulator type), HEADPHONES, SOLDER, SCREWS, and SPECIAL EQUIPMENT.



Illustration of a completed "Wondertone" 4 Valve Set.

PRICES—

1 Valve, Dry Cell Type	£7 9 6	2 Valve, with 40 Ampere Hour Accumulator	£12 16 0
2 Valve, Dry Cell Type	£10 19 0	3 Valve, with 60 Ampere Hour Accumulator	£15 16 0
3 Valve, Dry Cell Type	£12 5 8	4 Valve, with 40 Ampere Hour Accumulator	£20 19 0
4 Valve, Dry Cell Type	£15 4 6	5 Valve, with 60 Ampere Hour Accumulator	£24 2 6
5 Valve, Dry Cell Type	£21 8 6		
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Radlokes, Honeycomb, Circloid and Special
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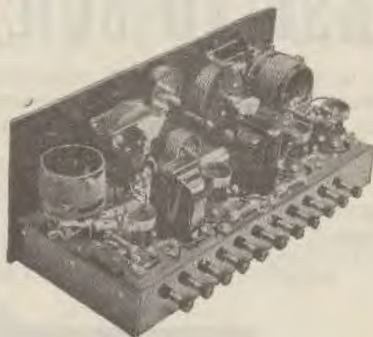
In New South Wales for Louis Coen Pty.,
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The most complete line of Radio Products in
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Write for Special Catalogues.

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General Radio Universal "Four"

3LO, 4QG or any interstate station you require on loud speaker strength—an extremely efficient and highly selective four-valve broadcast receiver possessing great range and quality of reproduction. Wave length range of 150 to 600 metres with a phone range of 2000 miles. Built entirely of General Radio precision components. One of many features embodied in this set is the ease with which local interference can be eliminated. David Jones' are sole distributors for Sydney. Price, set, complete with accessories, loud speaker, batteries, phones etc., £47/10.

DAVID JONES'

Your Boy Knows!



THOUGH you may not understand wireless technicalities, your boy does, and probably knows, too, that Ediswan accessories are best.

The long life and dependability of your set lies in the components used, so be certain they are—

EDISWAN

WIRELESS ACCESSORIES

EDISON SWAN ELECTRIC CO. LTD.,
68 Clarence Street, Sydney;
and at Melbourne, Brisbane, and Adelaide.

plain as much as they know themselves. On some Sunday evenings nearly a hundred people are shown around the studio.

DRESSING ROOM ENTERTAINMENT.

Dressing room entertainments from the Tivoli Theatre are always popular with listeners-in as the vaudeville people provide more of an entertainment than a talk. Many will have pleasant memories of the ukulele songs of Dollie and Billie and these will welcome the news that a similar entertainment is soon to be provided through 3LO, Melbourne, by the Swanson Sisters, another pair of famous artists who are appearing at the Tivoli Theatre. These girls are twins, and they have married twin brothers. The two families combine in one big act under the name of the Rigoletto Brothers and Swanson Sisters, and present a miniature revue of entertainment incorporating all the arts and types of acts known to the vaudeville stage.

FOUR SHIEKS.

A good vocal quartette in harmonies is the acme of musical enjoyment for many people, and in the concert world or upon the stage this combination is always sure of success. It is some months since a professional male quartette has been heard over the air, but now 3LO, Melbourne, has secured the services of the Four Shieks, who have met with considerable success over the Tivoli circuit throughout Australia and have for many months been playing in the principal picture theatres. These young men do not confine their repertoire to Eastern numbers, as their name might imply. On the stage they work with an Arabian setting, each man attired in the true Shiek costume.

SPREADING THE NEWS.

The extent to which the reliable service of 3LO, Melbourne, is being availed of by the public in cases of emergency is ever on the increase. Hardly a day goes by without some appeal or urgent message being broadcasted to distant people. First of all the messages were confined to Victoria, but as the fame of 3LO, Melbourne, spread, the destination of the broadcasted information extended. Only last week the studio was asked to send a message to a man in Papua notifying him that one of his family was seriously ill. The message was received. In fact the Pacific Islands contain many listeners-in who have written in appreciation of 3LO's programmes. Now comes a paragraph from a newspaper at Northam, near Perth. It says: "On Sunday evening a local wireless amateur when listening-in to 3LO, Melbourne, received a message

which had been broadcasted, asking that a resident of Mt. Lawley (a suburb of Perth) should be informed of the death of a near relative at Melbourne. Finding that the person referred to was on the telephone, he was communicated with that evening, and thus the message was delivered at least twelve hours earlier than would have been possible by telegraph." Since police verification is made in all instances there is little possibility of abuse of hoax.

AIDING THE BLIND.

"I am a listener-in who has lost his sight" writes a correspondent of 3LO. "I wish to convey to 3LO, Melbourne, my great appreciation of your programmes. Your broadcasting is a great source of pleasure to me, and to the gentleman who so beautifully described the Anzac Day March, I send my special thanks."

WILLIAMSTOWN CITY BAND.

One of the best known municipal bands in the Melbourne district will soon be heard "on the air" by listeners-in to 3LO, Melbourne. This combination is remarkable in the fact that the majority of its members are young in years, but veterans regarding musical talent. Council bands are seldom successful, and in years gone by, bands have started in the Williamstown district, but have failed owing to lack of public support and efficient organisation. However, in 1923, the present band was organised by the present bandmaster, Mr. J. Scott, who has had previous experience in the Royal Artillery band, and under his tuition, Williamstown has now reason to be proud of them. He has been ably assisted in his work by the secretary, Mr. J. Vernal.

During the summer season recitals are given by them on the beach at Williamstown and the public support has been magnificent, thus proving that musical talent is greatly appreciated. Last year the Williamstown band was featured in various massed band recitals in and around Melbourne and they were also one of the leading bands at the massed band recital given as a farewell to the Malvern Tramways Band at the Melbourne Cricket Ground, before they departed on the New Zealand tour.

This will not be the first time that listeners have heard this band, as they were attached to the 5th Division in the Anzac march this year, which was so ably described by Mr. Norman McCance at the request of 3LO. Great things are expected of them and despite the youthfulness of the members, "listeners-in" to 3LO, Melbourne, will not be disappointed.

PHILCO—"Have you got one yet?"—BATTERIES

The SUPREME Detector

For
Perfect
Rectification



DESIGNED specially for master detection. Gives you strong signals and helps weak long distance reception.

MULLARD Double White Ring VALVES

Type D-3 for 2-volt accumulator EACH 13/6 Type D.06 for 2 or 3 dry cells or 4-volt accumulator EACH 13/6

GET ONE FROM YOUR RADIO DEALER

Mullard

THE · MASTER · VALVE

(ARKS, B3.)

MULLARD VALVES CAN BE OBTAINED FROM ALL RADIO AND ELECTRICAL DEALERS.
Advertisement of the Mullard Wireless Service Co. Ltd., Balham, London, S.W.12, ENGLAND.

WHAT THEY WRITE

IN A NUTSHELL

To the Editor, "Wireless Weekly."

Sir,—Your editorial last week was certainly to the point when dealing with the wavelength situation with regard to the broadcasting stations in Australia. Having been fortunate enough during my business travels in the Eastern States to have had the opportunity of listening-in at the home town of nearly every class A station, I can fully sympathise with the lot of the broadcast listener located in other cities than Sydney.

I fully expected some good would come out of the conference of delegates of the Association for the Development of Wireless, and hopes were high until the representatives of the P.M.G. Department took up their usual dog in the manger attitude. When the various positions of the short wave stations are plotted on the dial of a condenser which allows a tuning from 250 to 500 metres, one experiences mingled feelings of pity and contempt for the individuals responsible for such a hopeless blunder. According to information that I have received from individuals acquainted with the inner workings of the P.M.G. Department, the head office in Melbourne has worked out an elaborate scheme covering dozens of mythical class B stations in addition to the existing stations, and that the ether has been subdivided into a crazywork quilt pattern upon the principle that the fatter the stations are apart the closer their carrier waves. The ridiculous crowding of 2BL, 3LO, 3CL, and 4QG into a frequency band of only 90 kilocycles should be apparent to even the most obstinate of departmental officials. Up to the time of the conference I was firmly of the opinion that something would soon be done to relieve this congestion, and it certainly came as a nasty knock back to read the official reply given to the conference by the Secretary of the P.M.G. Department. One statement was to the effect that the members of the conference had had an opportunity in the beginning to lay out the wavelengths, and that no alterations would be made now. It seems strange to hear such statements from an individual responsible for so many efficient changes in his own previously moth-eaten department. Two reasons only seem apparent, either that outside influence has been brought to bear to perpetuate the chaotic short wave situation, and so discredit their undoubted superiority, or that sheer obstinacy is the only obstacle to greatly improved conditions. Another statement made in the abovementioned reply regarding the desired restriction of broadcasting wave lengths below 500 metres was that such a procedure

would penalise the owners of universal wave receivers. This seems rather a belated confession to make after the many official assurances that no difference in the efficiency of a receiver would be caused by having it a jack of all trades. There are eight main Class A stations (and according to the regulations there can be no more) in Australia, and all these could be comfortably included between 300 and 500 metres (1000 to 600 kilocycles) with a frequency separation of 50 kc., leaving from 200 up to 300 metres (1500 to 1000 kc.) for about 20 Class B and relay stations with a frequency separation of 25 kc., as they will all be of much lower power than the Class A variety.

It is about time that the Rip Van Winkles in charge of the administration of the Wireless Regulations woke up to the fact that it is now the year 1926, and broadcasting is no longer the local novelty it was in 1923, having spread well beyond State borders quite some time ago. This also brings up the "parish pump" methods of revenue allocation, particularly in regard to N.S.W. and Victoria. It certainly is an outrage on one's sense of justice when the Cinderella sisters in other States are considered. Broadcasting is a Commonwealth affair, and should know no State borders. Take 4QG, for example, with a State area easily half a dozen times as great as Victoria, and only one-eighth of the revenue to do it with. It makes little difference to a station's running costs whether five thousand or fifty thousand receivers listen to it. With a combined revenue of approx. £160,000 for the Commonwealth, each of the eight Class A stations could get £20,000 instead of the paltry pittance as at present after 2FC and 3LO take their lions' share.

Political activity seems essential for relief, and all readers should do their utmost to support the Association for the Development of Wireless, and thereby create a large organised body, which can force the hand of those individuals, both inside and outside the department, responsible for the present hopeless muddle.—Yours, etc.,

"FAIRPLAY."

(Editor's Note.—We would welcome other readers' opinions on this subject.)

SECRET WIRELESS?

According to a Paris report, a system of secret wireless telephony has been invented by a young Austrian engineer. The apparatus is stated to emit successive waves of three different lengths, changing from one to another every sixty-thousandth of a second. To pick up the "secret" message the receiver must be synchronised with the wave fluctuations of the transmitter.



Low Loss!

WHY buy expensive condensers and coils and then nullify their efficiency by mounting on an inferior high loss panel?

RADION is the foundation on which to build your set. It is made expressly for radio and far excels any other insulating material in the four essential characteristics of wireless, namely:

- 1.—Low angle phase difference.
- 2.—Low dielectric constant.
- 3.—High resistivity.

4.—Low absorption of moisture. In addition, Radion is easily worked and is truly beautiful in appearance. In cost, it is more economical than any other material and will prove to be far more efficient in every way.

Always insist upon genuine Radion Panels and Parts (dials, sockets, knobs, insulators, etc.) Inferior material cannot possibly give you the same satisfactory results. The name Radion stamped on every piece is your assurance of complete satisfaction.

SEND FOR FREE BOOKLET

"Building Your Own Set"

Our new booklet, "Building Your Own Set," giving wiring diagrams, front and rear views, lists of parts and directions for building the most popular circuits, will be sent free upon request to



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RADION

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THE BRANDOLA.

Specially built to bring greater volume with minimum current input and exceptional clarity over the full frequency range. A large diaphragm gives new rounded fulness to the low registers and new clarified lightness to the high. Reproduction controlled by a thumb screw on the base. Polished walnut plinth with electro-plated fittings. Height, 26 inches, Bell 12 inches, special non resonant horn. Agents, International Radio Co. Ltd.



PHILIPS HIGH TENSION SUPPLY UNIT.

Claims to do away with the necessity for "B" batteries, this apparatus may be used with all types of receiving sets using the ordinary three electrode valve without any hum from alternating current. The alternating current is converted into pulsating direct current which is subsequently smoothed to a perfect direct current. The choking coils have been carefully constructed and large capacity condensers contribute to the complete smoothing. A special rectifying valve obtainable separately has been designed for this apparatus and used normally will have long life. By means of a rheostat, the plate voltage can be adjusted, but this rheostat should be kept inserted as far as possible for good

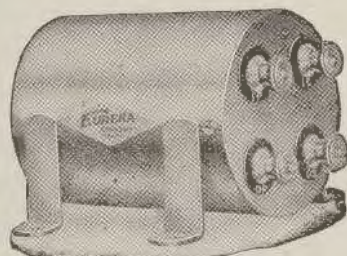
reception. Special attention has been paid to a supply of lower plate voltage to the detector. A special connection is provided and by means of a second rheostat the detector voltage can be adjusted in three stages. Handled by Philips distributors.



High tension supply unit

EUREKA TRANSFORMER.

Of particularly attractive appearance is the Eureka transformer, a British product handled by New System Telephones Pty. Ltd. Amongst other features, it has a non-laminated core—an inclusive method of winding—and is hermetically sealed to preclude the possibility of dampness injuring the contents. It is enclosed in a coppered steel case to prevent interaction, and having been fully tested over a comprehensive series of electrical tests, is fully guaranteed against any possibility of breakdown.



BURGESS—"Over twice the Life"—BATTERIES

Why the new Wecovalves will improve your set!

GREATER sensitivity is assured from Wecovalves, for when operated at a dull red heat, the new patented tape filament used in the improved Weco-valve gives fourteen times the electron emission of thoriated tungsten filaments operating at a bright red heat.



The new Weco-valves are now available from regular radio dealers at

17/6

Owing to the unique rigidity of their construction and the special method of supporting the valve elements, Wecovalves are positively free from the parasitic noises common to other valves of the dull emitter type.

The extremely low temperature at which Weco-valves operate, due to the special oxide coated filament used, ensures longer life than that usually obtainable from ordinary dull emitter valves.

Wecovalves are specially graded as detectors and as radio or audio frequency amplifiers.

Standard Telephones and Cables (Australasia) Limited

FORMERLY

Western Electric Company (Australia) Ltd.

192-4 CASTLEREAGH STREET, SYDNEY

272

NEW AEROPLANES FOR IMPERIAL AIRWAYS.

The five new multi-engined Handley Page air liners that were delivered to Imperial Airways, Ltd., at Croydon, on March 30th, and christened by Lady Mand Hoare, will be equipped with standard type Marconi A.D.6 wireless installations for telephonic and telegraphic communication. This wireless apparatus is the standard fitting for all Imperial Airways passenger machines, and enables the pilots to keep in constant communication with the ground stations throughout their flights.

WIRELESS TELEGRAMS TO RUSSIA.

Marconi's Wireless Telegraph Company Ltd. announces that a wireless service from Radio House, Wilson Street, E.C.2, to Moscow, was inaugurated on March 31. Private and commercial telegrams will be accepted at any Marconi office for wireless transmission to Moscow or any part of Russia, facilities having been arranged for the rapid distribution of such messages throughout the country.

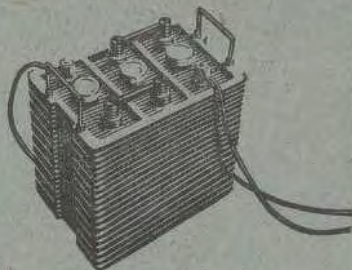
A BROADCAST LIBEL?

A libel action has been threatened by Mr. Crowe, the Illinois State Attorney, against the wireless announcer at a Chicago cabaret for broadcasting the incorrect statement that Mr. Crowe was amongst the cabaret's guests. Unfortunately for Mr. Crowe, no statute appears in American legal records defining radio libel.

A law on this subject is pending before Congress, but until it is passed the State Attorney is likely to have little chance of success in an action for wireless libel.

The ten o'clock signal broadcast from the Capetown Station is super-imposed on any item being performed at the time, so that this gives the time signal without cutting off the item.

FOR SALE—60 ft. Oregon Mast in two sections, lower half 35 ft., upper half 25 ft., located at Suspension Bridge. Complete with guys and pegs. Best offer takes. Apply "Aerial," c/o "Wireless Weekly," 71 Regent Street, Sydney, or telephone Redfern 964 for particulars.



Ever Cracked Walnuts?

The shell looked all right; big, brown, inviting. In fact, you picked it out on size. It *looked* good. But when you cracked it—nothing.

There are batteries like that. To look at 'em, you'd think they housed a power station. But give them a clock-and-ammeter discharge test. That is—crack them . . . nothing.

Get a P. & R., though, and you get *capacity*, you get *service*; plates sturdy to work and keep working; terminals petroleum-jelly packed to stop creep; a "Dagenite" cell case which is leak and acid-proof; wood interplate separators tested and re-tested; a battery with a guarantee; which costs no more than the ordinary kind: the battery which is standard to Rolle Royce cars.

Ask your dealer about

P AND R
PETO & RADFORD
ACCUMULATORS

The beginning and the end in
POWER

Direct Factory Representative
 John Arnold, Degraeves Buildings,
 Degraeves Street, Melbourne.



The Greatest Success

Start Your Subscription Now

10/- PER ANNUM

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HOWELL'S SALE & EXCHANGE

Large Variety Loud Speakers from 35/- to £8.
Hear them on music.

£ s. d.		£ s. d.	
3 Plate Condenser	3 0	4 inch Dials	2 3
Sphinx Loud Speaker	1 17 6	3 inch Dials	1 3
"Jefferson" 41 Transformers	1 0 0	2 inch Dials	1 0
"Ediswan" Transformers	15 0	Premier 201A Sockets	1 0
12 Point Inductance Switches	2 6	Premier 199 Sockets	1 0
Single Jack, 1/9; Double	2 0	.0005 Condensers	8 0
Standard 201A Sockets	1 0	7 Maked Mounted Terminals	3 0
.0005 Straight Line Frequency		Bakelite Rheostat, 30 ohm. 3/-	
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Low Loss Condensers	11 6	Hydrometers	3 0
Ediswan Valves	3 0	Lightning Arresters	2 6
Polymet Phone Plugs	3 0	Dialing Dials	3 6
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Cash with order. Over 10/-, post free
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HAVE YOU TRIED THE HOWELL REINARTZ?
There's Nothing Better — Let us Rewire your Set
WE GUARANTEE RESULTS.

19 BARLOW STREET, SYDNEY
Open till 9.30 Friday Night

Phone MA 1133

No More Distorted Music!

Even the poorest Receiver with its harsh reproduction can be converted into
a mellow-toned musical instrument with the new

MACLURCAN

TONE PURIFIER AND STATIC REDUCER

(Patent app. 26131)

NOW READY
FOR SALE

PRICE, 21/-

WITH A MONEY
BACK GUARANTEE

AN EMMCO PRODUCT

Particulars from—

CHAS. D. MACLURCAN, Pratten Building, Jamieson St., Spdney

Manufactured by Electricity Meter Manufacturing Co. Ltd, Spdney

From Here and There

LATEST LICENSE FIGURES.

By "Billy Tea" (3LO).

The figures for April have just been published and make a most interesting study. It is not a mere fortuitous concurrence of circumstances or in other words, merely by chance that Victoria still leads both in numbers and in percentage of population far before all other states. We may honestly put it down to 3LO, Melbourne's, strong lead both in popularity of programmes and excellence of transmission. Suppose we make a neat little table of the figures supplied by the P.M.G.:—

LICENSES, END OF APRIL.

State	Total	New	Cancelled	Total per cent. of Population
Victoria	53,547	932	1,161	3.1
New South Wales . .	34,100	5,226	21	1.4
South Australia . . .	11,029	557	1	.2
Queensland	5,951	714	1	.6
Western Australia . .	3,759	326	163	.1
Tasmania	1,114	55	1	.5
Total	109,500	7,810	1,348	1.8

There is, however, still another way of looking at the above figures. Creditable as they are to 3LO, Melbourne, it really does seem somewhat ridiculous that after three years of actual broadcasting and nearly two years of the very best to be had anywhere in the world there should be only 3 out of every 100 people in Victoria listening-in, or if we count five per family, only fifteen homes out of every hundred. Considered in the light of the figures thus interpreted one is inclined to hesitate before taking the recent plebiscites and those now imminent as anything like gospel, and one also wants to know what is the matter with the people of Australia and particularly with those of the Queen City of the Sunny South that houses a broadcasting station so satisfactory as 3LO, Melbourne. Still another point worth stressing is the astonishing fact that Victoria and its sister state, Tasmania, which are practically one as regards broadcasting, together make up a full half of the total number of license-holders.

STATION JOAK.

TOKYO BROADCASTING BUREAU.

Many listeners throughout Australia have heard the Japanese station JOAK, so that these particulars which were sent by the Director of Tokyo Hoso Kyoku (Tokyo Broadcasting Bureau) to Mr. H. R. Carter, Armidale School, Armidale, N.S.W., will be found interesting:—

OUTLINE OF THE WORK OF TOKYO HOSO-KYOKU.

1. ORGANISATION OF TOKYO HOSO-KYOKU.

The bureau is organised for the sole purpose of public service, composed of principal newspapers, banks, manufacturers and business firms of Tokyo under governmental supervision over programmes and rates, etc.

2. STATION JOAK.

The station JOAK, situated on a small historical hill called Atagoyama, was started in July, 1925, after four months of temporary operation at Shibaura, which is located about a mile south of present station, having the capacity of one kilowatt.

3. THE STATION PROGRAMME.

The station starts daily at 9 a.m. and closes about 10 p.m., Tokyo time.

Programmes usually consist of three principal parts:—

(1) Daily reports, such as time, news, stocks, market prices and special announcements.

(2) Educational features, such as special course on household economics, children's hours, English language courses given with text, lectures covering scientific, historic, literary and cultural subjects.

(3) Recreations; entertainments consisting of Japanese and foreign songs and music, specially composed radio plays which are very popular.

4. BROADCASTING TIME.

Total daily broadcasting time at present is approximately seven hours, one-third of which is occupied by each of the above three principal features.

5. SUBSCRIBERS.

The owners of radio sets pay one yen per month to the operating bureau and one yen per year fee to the Government. At present these subscribers of Tokyo Broadcasting Bureau residing within the radius of 100 miles from Tokyo number over 130,000, increasing at the average rate of 600 per day.

6. RECEIVING RECORD.

The record of information received from various countries shows that the programmes of JOAK are

PHILCO—"Experience Teaches"—BATTERIES

Lower Prices!

Owing to reductions in factory prices, we are now able to offer radio enthusiasts our well known Radio Components at substantially reduced prices,

Such as:—

	Old Price.	New Price.
ACME CONDENSER, LOW LOSS	48/6	39/9
Audio Transformer	35/-	30/-
Radio Transformer	35/-	30/-
Pot.-Rheos.	21/-	17/6
 HILCO SUPER-HET. KITS	 £11/10/-	 £6/17/6
 SOUTHERN CROSS CONDENSERS—		
Low Loss Vernier, .0005	32/6	23/6
Low Loss Plain, .0005	30/-	19/6
Ordinary Plain, .0005	17/6	10/6
Ordinary Vernier, .0005	25/6	18/6
 FILKO LEAKS	 12/6	 10/9
 FILKO ARRESTERS	 10/6	 7/6

AT ALL STORES.

Next week we will be advertising reductions in many other lines.

If you have any difficulty in obtaining these goods from your dealer, let us know.

GENERAL INDENT & EXPORT CO. LTD.

77 King Street - Sydney

(Wholesale)

MA 1790

MA 1744

now heard in Anstralia, Western Coast of Alaska, United States, and even as far as Chicago.

7. LARGER STATION PLANNED.

The bureau is now planning to build a high-power station, having antenna output of 10 kilowatts, which is 10 times the present capacity, located within 10 miles of the city. It is hoped thus to make its local subscribers within 100 miles able to use simple crystal sets, and further to reach its more remote friends overseas in America, Anstralia, and the South Sea Islands.

8. PLAN TO CONNECT STATIONS OF ENTIRE COUNTRY.

With the aid of the Government engineers, the bureau's engineers have just made a successful test of connecting up with Osaka and Nagoya stations, JOAK and JOCK respectively relaying each other's programmes. The Government is working out in co-operation with the various bureaus a plan to lay a flexible broadcasting and relaying system throughout the Empire under most economical basis for the common interest of the public.

TWO BOUQUETS RECEIVED THIS WEEK.

Mr. Tandy, 24 Murray Street, Colac, writes:—

"I heard the latter part of the Morse Code Transmissions from your station, 2WW, at about 7.55 p.m., and heard you say you were closing down at 8 p.m. The speech came through wonderfully clear on the speaker, using the Browning Drake Receiver described in a recent issue of your paper, to which I always look forward every Friday.

The set has pulled in all Australian stations (with the exception of 6WF and 2FC, of course), on the speaker. VLDN, Dunedin, N.Z., can be heard between 3LO's items at good strength, and I am hoping to tune in KGO during the winter months. Have had 27 stations so far, about 24 of them on the loud speaker.

Wishing you every success with your paper, yours, etc."

Mr. Hargreave, a Victorian subscriber, writes:

"Having a two tube set with a 3 coil hook-up I decided to try the capacity controlled regenerative circuit published in 'Wireless Weekly,' dated April 30, 1926. I certainly found the circuit much better than the one I was using with the ordinary method of regeneration.

The following stations have been logged at full loud speaker strength: 3LO, 3AR, 3UZ and the following stations at moderate loud speaker strength: 2BL, 2KY, 2FC, 5CL, 5DN, and 7ZL. I consider these results remarkable, and wish to offer my sincere thanks, and wish your fine paper the best of luck."

H. & H. Grid Leak Resistance

Fixed resistance or grid leaks are steadily increasing in popularity. H. & H. resistances are composed of a permanent impregnated material which is not affected by change in temperature or atmospheric conditions. Made in 50,000, 70,000, 100,000 ohms; 1/4, 1/2, 1, 2, 3 and 5 megohms.

Variable Grid Leak Resistances

The W-261 is variable from 100,000 ohms (0.1 megohm) to 5 megohms. Use with UV-200, C-300, DV-0, or any soft detector tube. In fact, use where a grid leak up to 5 megohms only is required.

The W-262 is variable from 2 to 10 megohms, and works wonderfully well with WD-11, WD-12, UV-201-A, UV-199, C-301-A and C-299.

Grid Leak Resistance Mounting



Fig. W-263 shows the handy leak holder. It's small, yet affords good, stiff contacts, and permits instant interchangeability of leaks.

The cleverest, handiest "leak" holder made; adjustable in an inconceivable number of ways; particularly useful in resistance coupled amplification hook-ups.

Dielectric insulation material is moisture proof. Metal portions are spring brass, nickel-plated.

H. & H. RADIO GOODS ARE OBTAINABLE AT ALL LEADING STORES, AND INCLUDE:—

- Sockets (see No-Loss Porcelain Socket)
- Rheostats
- Variable Condensers (Low Loss Type)
- Mica Condensers
- Transformers (Audio)
- Push-Pull Transformers
- Jacks and Plugs
- Potentiometers
- Dials and Knobs
- Battery Switches
- Lever Switches
- Etc., Etc.

Send for complete catalogue to the
Australian Representatives:

BOSWELL & CO.

51 YORK STREET, SYDNEY, and
403 BOURKE STREET, MELBOURNE.

FOUR SENSATIONAL OFFERS!

Payment of **£1** will secure immediate delivery in the Metropolitan area of any of our Special Offers.

£1 DOWN
and
5/-
WEEKLY

WONDERFUL COMBINED OFFER.

Do you realize that for **£4** down and **£1** a week we will deliver to your home a Super Cabinet Tonophone a Valve Wireless Set, a Pathé Home Cinema and one of Heiron & Smith's Lift-on Billiard Tables?



OFFER NO. 1

SUPERB CABINET TONOPHONE

Noted for its remarkable reproduction its tonal value and exclusive Non-Scratch features. A gem of workmanship in a handsome highly polished cabinet. **£1** down secures immediate delivery balance 5/- weekly



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FRIDAY, MAY 26.
Afternoon Session.

- 10.55—Special Cricket Session with Music from the Studio.
9—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
8.15—Music from the Studio.
3.30—G.P.O. Clock and Chimes; A talk on English Poetry by Mr. J. M. Prentice.
5.45—Music from the Studio.
4—G.P.O. Clock and Chimes; Music from the Studio.
4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.
4.45—Music from the Studio.
3—G.P.O. Clock and Chimes; The Sun News Service.
5.15—G.P.O. Clock and Chimes; Close down.
Early Evening Session.
6—G.P.D. Clock and Chimes; Sporting Resume from the Sun Newspapers; The pupils of Miss Moxies Scully will entertain the Kiddies.
6.45—Broadcasters' Dinner Orchestra.
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.
7.50—Close down.

Evening Session.

- 8—G.P.O. Clock and Chimes; Cec. Morrison and his Glomchazers, with Mr. Morrison playing jazz numbers by request with the telephone request broadcast simultaneously. Alice Frowe, contralto, in songs from her repertoire. Miss Hilda Boyle singing operatic duos. Sporting talk on form and tips for the following day's races and a travelogue talk on Egypt.

SATURDAY, MAY 29.
Afternoon Session.

- 10.55—Special 20 minute Cricket Session with Music from the Studio.
9—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from Sun Office.
8.15—G.P.O. Clock and Chimes; Close down.
Early Evening Session.
6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.
6.30—Sporting Resume from Sun Newspapers; Uncle Jack and the Kiddies.
7—A Talk to the Kiddies by "Bin-ga."
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.
Evening Session.
8—Broadcasters' Vocal Quartette "The Harmonists" in concerted numbers: Miss Nellie Chadwick, soprano; Abad Duo, playing steel guitars; Miss Hilda Land, soprano; Mr. Victor Evans, baritone; Mr. Maurice Frankel,

banjoist; Mr. Howard L. Leighton, pianist; Brings will lecture on a Trip to the Nulls, boat Plains, and Mr. Stanley Crittendon will lecture on Photography.

SUNDAY, MAY 30.

- 11—Sacred Heart Church, Randwick.
3.30—Bible Class conducted by Mr. W. "Cairo" Bradley.
4—Organ Recital from Chalmers Street Presbyterian Church.
15—Presbyterian service from Chalmers Street church, preacher, Rev. D. Brandt.
8.30—Marty Municipal Military Band, followed by concert from the Studio with Mr. Lance Jeffrey, tenor.

MONDAY, MAY 31.

Afternoon Session.

- 10.55—Special Cricket Session with Music from the Studio.
8—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
8.15—David Jones' Tea Room Trio.
3.30—G.P.O. Clock and Chimes; A talk on A Course in English Literature, by Mr. J. M. Prentice.
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 Mr. Ramoni.
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.

- 6—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 Land & Finance Company.
7.50—Close down.

Evening Session.

- 8—The Annual Meeting and Distribution of Funds of the United Charities Fund from the King's Hall, Hunter St. In addition to the speeches to be delivered by His Excellency the Governor, Right Hon. Lord Mayor, the Hon. G. C. Lazarini, M.L.A. and the Hon. Sir Alfred Gould with other gentlemen, there will be a brilliant programme which is of duets, solos, and recitations, under the direction of Mr. Roland Foster of the Conservatorium of Music.

TUESDAY, JUNE 1.

Afternoon Session.

- 10.55—Special 20 minute Cricket Session with

Music from the Studio.

- 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.
4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.
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.
6—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 Land & Finance Company.
7.50—Close down.

Evening Session.

- 8—The Ambassadors Instrumental Salon Quartette under the direction of Mr. Claude McClynn; Mr. Alfred Cunningham, baritone; Miss Claire Goole, soprano and Mr. Joseph Post, Oboc solos.

WEDNESDAY, JUNE 2

- 10.55—Special 20 minute Cricket Session with Music from the Studio.

Afternoon Session.

- 3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
3.15—Broadcasters' Trio.
3.30—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 Mr. Ramoni.
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 Land & Finance Company.
7.50—Close down.

Evening Session.

- 8—City of Sydney Band, broadcast from Earlwood Chambers; Sydney Orphans Society, Dr. Donald Lucker will speak on Japan—Moods and Reactions, No. 3; The Materialistic Foreign Affairs Talk, by Mr. J. M. Prentice, when telephonic questions will be answered.



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THURSDAY, JUNE 3.

10.55—Special 20 minute Cricket Session with Music from the Studio.

Afternoon Session.

4—C.P.O. Clock and Chimes; Weather Reports and Social Notes from The Sun.

5.15—David Jones' Tea Room Trio.

5.30—C.P.O. Clock and Chimes;

3.45—Music from the Studio.

4—C.P.O. Clock and Chimes; David Jones' Tea Room Trio.

4.45—Music from the Studio.

4.55—Late Market Reports from The Sun.

6—C.P.O. Clock and Chimes; Sun News Service.

5.15—C.P.O. Clock and Chimes; Close down.

6—C.P.O. Clock and Chimes; Sporting Resumes from "Sun" Newspapers; Uncle Jack and the Kiddies.

7.50—Close down.

Evening Session.

6—Hayt's Imperial Orchestra, under the direction of Mr. Lionel Hart, broadcast from Hayt's Theatre. From the Studio: The Sydney Players present a comedy in three acts entitled, The Rotters, Act I. Miss Helena Stewart, soprano; Al Hammett and the Ambassadors Dance Orchestra, broadcast from the ballroom of the Ambassadors until midnight.

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FRIDAY, MAY 28.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News. Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

Evening Session.

7.30—Latest News Items; Miss Maisie Carroll, soprano; Mr. Alf James, baritone; Mr. Beard, technical designer of 2KY, Wireless Lecturette; Mr. J. Ryan, Labor Research Bureau, Political and Industrial Topics; Mr. David Edelman, monologues; Andre Addison's String Orchestra; Palms Royal Californians, by kind permission of J. C. Bendrodt (Mr. Walter Beehan, leader).

SATURDAY, MAY 29.

7.45—Latest News Items and Sporting Results; Mr. J. O'Sullivan, baritone; Lecturette, Hints on Motors, Mr. W. H. Burgess; Mr. Frank Redman, monologues; Lecturette, Labor Legislation, Mr. J. C. Eldridge; Mr. Robertson, baritone; Nellie O'Sullivan, dramatic scenes; Mr. W. Masters, banjo solos, Palms Royal Californians, by kind permission of Mr. J. C. Bendrodt (Mr. Walter Beehan, leader).

MONDAY, MAY 31.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News. Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.30—Latest News Items; Miss Amy Ruwald, entertainer; Mr. W. Strain, tenor; Lecturette, Local Topics, Industrial and Political, Mr. J. S. Garden; Mr. Beard, technical designer of 2KY, wireless lecturette; Mr. J. Gray, baritone; Miss Nellie Graves, soprano; Master Clarke, violin solo; Palms Royal Californians, by kind permission of J. C. Bendrodt (Mr. Walter Beehan, leader).

TUESDAY, JUNE 1.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News. Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.50—Latest News Items; Miss Herrington, soprano; Lecturette, Organic Evolution, Mr. Geo. Manuil; Miss Vera Nilsson, soprano; Lecturette, Mr. R. V. Markham; flute solos, Mr. Les Sproule; Mr. McDougal, Hawaiian steel guitar; Mr. David Lloyd, pianist; Mr. A. Jamieson, tenor; Master Cordic, boy soprano; Miss Beatty, mezzo-soprano; lecturette by the Same Democracy League; Palms Royal Californians, by kind permission of J. C. Bendrodt (Mr. Walter Beehan, leader).

WEDNESDAY, JUNE 2.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News. Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.30—Latest News Items; Miss Deau, pianist; Lecturette, International Topics, Industrial and Political, Mr. J. S. Garden; Mr. R. Wallace, baritone; Mr. Percy Brown, monologues; Lecturette, Health Topics; Miss Lily Wallace, whistler; Lecturette, subject to be announced, Rt. Rev. G. A. Arundale; Results of the Lawn Cigarette Competition; Palms Royal Californians, by kind permission of J. C. Bendrodt Ltd. (Mr. Walter Beehan, leader).

THURSDAY, JUNE 3.

12 noon—Special Luncheon Hour Service: Union Topics, Labor News. Items of general interest; Sporting Results; vocal and musical items, closing down at 2 p.m.

7.30—Latest News Items; Miss Tibbie Smith, monologues; Mr. Eric Goldrick, Hawaiian steel guitar; lecturette, Readings from Working Class Fiction, Miss E. L. Patrick; lecturette, Mr. J. C. Eldridge, Social Science Series; Miss Butterworth, soprano; Mr. W. Thoms, tenor; Miss Sheehy, monologues; Cross Word Puzzle Night; Palms Royal Californians, by kind permission of J. C. Bendrodt Ltd. (Mr. Walter Beehan, leader).

4QG

QUEENSLAND RADIO SERVICE.

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FRIDAY, MAY 28.

Midday Session.

12.55—"Tune-in" Signal.

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

3.30—Duo Act selection; contralto solo, Miss Winifred Anderson; Aeolian Vocalion Selection; soprano solo, Mrs. S. B. Harris; monologue, Miss Mable Cornack; bass solo, Mr. Stanley Tamblin; Duo Act Selection; contralto solo, Miss Winifred Anderson; Aeolian Vocalion Selection; soprano solo, Mrs. S. B. Harris; bass solo, Mr. Stanley Tamblin.

Early Evening Session.

7—The Farmers' Session; Market Reports; Lecturette—The Boys and Girls' Club Movement, Mr. E. J. Shelton (Instructor in Pig Raising).

Night Session.

7.45—Lecture Session—A Talk arranged by the Workers' Educational Association.
8—Tone Poem, The Federal Band (under the leadership of Mr. W. Davies); mezzo soprano solo, Miss Mabel Parker; Indian romance, The Federal Band; baritone solo, Mr. J. Caldwell; waltz, The Federal Band; The Philips Sisters in a musical comedy Act; fox trot, The Federal Band; march, The Federal Band; soprano solo, Miss Jean Jarrott.

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

8.55—Announcements.

9—Overture, The Savoy Orchestra (leader, Mr. A. R. Featherstone); mezzo soprano solo, Miss Mabel Parker; waltz, The Savoy Orchestra; baritone solo, Mr. J. Caldwell; selection, The Savoy Orchestra; cornet solo, Mr. S. Henry; orchestral, The Savoy Orchestra; soprano solo, Miss Jean Jarrott; orchestral, The Savoy Orchestra; cornet solo, Mr. S. Henry; march, The Savoy Orchestra.

10.30—Close down.

SATURDAY, MAY 29.

6.25—Tune-in Signal.
6.50—The Children's Session; Bedtime Stories by Uncle Ben, assisted by Mabel Sunshine.
7.15—Close down.

Night Session.

7.45—Lecture Session—A Sporting Talk, by Rugby League Officials.

8—From the Studio—Baritone solo, Mr. J. Morgan; musical monologue, Miss Eileen McLennan; Hawaiian instrumentalists, The Kalua Trio; contralto solo, Miss Vera Parker; vocal duet, Mrs. Robt. Bell and Miss Ruth Portrate; baritone solo, Mr. L. Sheridan; Hawaiian instrumentalists, The Kalua Trio; soprano solo, Miss Nance King; musical monologue, Miss Eileen McLennan; vocal duet, Miss Mary McNeish and Mr. E. Bayton; baritone solo, Mr. J. Morgan; Hawaiian instrumentalists, The Kalua Trio; vocal duet, Mrs. Robt. Bell and Miss Ruth Portrate.

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

8.55—Announcements.

9—From Lennon's Ballroom—By courtesy of the proprietor of Lennon's Hotel, ten minutes dance music, played by Miss Mary Dobbins's Vice Regal Orchestra will be relayed from Lennon's Ballroom.

From the Studio—Contralto solo, Miss Vera Parker; vocal duet, Miss Mary McNeish and Mr. E. Bayton; baritone solo, Mr. L. Sheridan.

From Lennon's Ballroom—ten minutes dance music.

From the Studio—Miss Nance King; contralto solo, Miss Mae King.

From Lennon's Ballroom—ten minutes dance music.

From the Studio—Vocal duet, Miss Mae and Miss Nance King.

From Lennon's Ballroom—ten minutes dance music.

SUNDAY, MAY 30.

Morning Session.

The complete morning service from All Saints' Church of England will be relayed.
11—Morning Service. Sermon by the Rev. Fr. Free. Close down.

Afternoon Session.

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

3.10—Tune-in.

3.15—Band Concert.

4.30—Close Down.

Night Session.

The complete evening service from All Saints' Church of England will be relayed.

7.15—Organ Voluntary.

8.30—Evening Service. Sermon by the Rector.
8.30—Band Concert.

The Band Concert, played by the Greater Brisbane Municipal Concert Band will be relayed from the Wickham Park Bandstand.

9.30—Close Down.

MONDAY, MAY 31.

Market Reports.

1.30—Close down.

3.25—Tune-in.

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8.30—Duo Art Selection; soprano solo, Mrs. R. G. Allen; musical monologue, Miss Eileen McLennan; baritone solo, Mr. J. Caldwell; Aeolian Vocation selection; soprano solo, Mrs. R. G. Allen; monologue, Miss Eileen McLennan; Duo Art selection; baritone solo, Mr. J. Caldwell; Aeolian Vocation selection.
 4.15—News Service supplied by "The Telegraph."
 4.30—Close down

Early Evening Session:

6.25—Tune-in.
 6.30—The Children's Session—Stories by "The Sandman"
 7—The Farmers' Session—Market Reports supplied by the Council of Agriculture, Lecturette—Organised Marketing of Meat, by Mr. L. Sheehy, Assistant Secretary, Council of Agriculture.
 7.20—News Service supplied by "The Telegraph."
 7.30—Close down.

Night Session.

7.45—Lecture Session—Motors—Correct Lubrication Talk, No. 7, by "Gauguin."
 8—Baritone solo, Mr. Les. Faulkner; Scotch comic Mr. W. Donald, Secur.; Harmony duet, Messrs. Les Faulkner and W. Donald, Junr.; group of banjo numbers by Mr. N. Gould; tenor solo, Mr. W. Donald, Junr.; pianoforte solo, Miss Rae Phillips; baritone solo, Mr. Les. Faulkner; cornet solo, Mr. W. Davis; tenor solo, Mr. W. Donald, Junr.; Scotch comic, Mr. W. Donald, Secur.; harmony duet, Messrs. Les Faulkner and Mr. W. Donald, Junr.; contralto solo, Mrs. Charles Willey; pianoforte solo, Miss Rae Phillips; soprano solo, Miss Lillian Brown; cornet solo, Mr. W. R. Davis.
 8.50—Weather information officially supplied by the Commonwealth Weather Bureau.
 8.55—Announcements.
 9—Studio Programme, continued.
 9.15—From the Band Practice Room, Ann St.—A programme of music by the South Brisbane City Orchestra (under the leadership of Mr. J. W. Ferguson.
 10—"The Daily Mail" News Service; National Anthem by 40G Artists. Close down.

TUESDAY, JUNE 1.

Midday Session.

12.55—Tune-in signal.
 1—Market Reports and News Service supplied by the "Daily Standard"; Stock Exchange
 1.30—Close down.

Afternoon Session.

3.25—Tune-in.
 3.30—From the Studio—Overtures, The Savoy Orchestra; soprano solo, Miss Olga Harris; waltz, The Savoy Orchestra; soprano solo, Miss Olga Harris; orchestral, The Savoy Orchestra; baritone solo, Mr. J. Caldwell; orchestra, The Savoy Orchestra; baritone solo, Mr. J. Caldwell; contralto solos, Miss Clarice Cox; selection, The Savoy Orchestra; march, The Savoy Orchestra.
 4.15—"The Telegraph" News
 4.30—Close down

Early Evening Session:

6.25—Tune-in.
 6.30—The Children's Session—Stories by "The Sandman"
 7—The Farmers' Session—Market Reports—Lecturette—Sheep Raising in Coastal Areas, by Mr. W. G. Brown (Government Sheep and Wool Expert).
 7.20—"The Telegraph" News.
 7.30—Close down.

Night Session.

7.45—Lecture Session—Popular Science Talk No. 3, by Mr. F. McDonnell.
 8—From the Studio—Brisbane Apollo Club.
 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
 8.55—Announcements.
 9—From the Studio—Brisbane Apollo Club.

9.30—From the Centennial Hall—by courtesy of the Lessee, a programme of dance music by the Centennial Hall Dance Orchestra, will be relayed from the Hall.
 9.55—"The Daily Mail" News Service.
 10—Close down.

WEDNESDAY, JUNE 2.

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.
 1.30—Close down.

Afternoon Session.

3.25—Tune-in.
 3.30—March, The 40G Concert Orchestra; soprano solo, Mrs. T. Thornton; orchestral, The 40G Concert Orchestra; baritone solo, Mr. Chas. O'Mara; overture, The 40G Concert Orchestra; monologue, Miss Feo Todd; soprano solo, Mrs. T. Thornton; fox trot, The 40G Concert Orchestra.
 4.15—"The Telegraph" News.
 4.30—Close down

Early Evening Session:

6.25—Tune-in.
 6.30—The Children's Session—Stories by Little Miss Brisbane.
 7—The Farmers' Session; Market Reports; Lecturette—A Queensland's Impressions of Scottish Stock Breeding, by Mr. J. F. Reid (editor, Queensland Agricultural Journal).
 7.20—"The Telegraph" News.
 7.30—Close down.

Night Session.

7.45—Lecture Session—Scouting for Boys, Talk No. 1 by the Chief Commissioner for the

Queensland Boy Scouts' Association (Mr. C. S. Snow).

8—A programme of Old-time music.
 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
 8.55—Announcements.
 9—A Programme of Old-time Music, continued.
 10—"The Daily Mail News Service; Close down.

THURSDAY, JUNE 3.

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.
 1.30—Close down.

Afternoon Session.

3.25—Tune-in.
 3.30—Pianoforte duet, Miss Doris Valentine and Miss Feo Todd; contralto solo, Miss Vera Parker; monologue, Miss Eileen McLennan; soprano solo, Mrs. Con. Thomas; pianoforte duet, Miss Doris Valentine and Miss Feo Todd; contralto solo, Miss Vera Parker; monologue, Miss Eileen McLennan; Aeolian Vocation selection; U.S.A. Seventh Regiment Band; soprano solo, Mrs. Con. Thomas; Aeolian Vocation selection, Critterio Male Quartette.
 4.15—"The Telegraph" News.
 4.30—Close down

Early Evening Session:

6.25—Tune-in.
 6.30—The Children's Session—Stories by "The Sandman"
 There will be no Farmers' Session to-night.
 7.20—"The Telegraph" News.
 7.30—Close down.

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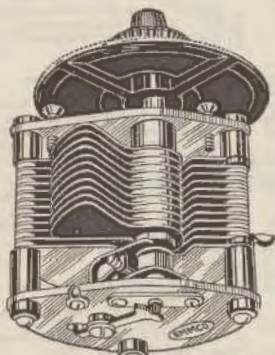
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Night Session.

- 7.45—From the Exhibition Hall—The Special Meeting held by Evangelist Gypsy Smith in the Exhibition Hall will be relayed. The programme will include congregational singing and an address by Gipsy Smith.
- 9—From the Band Room—An impromptu programme of music by the Greater Brisbane Municipal Concert Band (under the leadership of Mr. E. Jackson. "The Daily Mail" News Service.)
- 10—"The Daily Mail" News Service. Close down.

5CL

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FRIDAY, MAY 28.

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

- 11.30—G.P.O. Chimes.
- 11.31—Featuring a Steek Duo Art number.
- 11.40—"Advertiser" News Service.
- 12—G.P.O. Chimes.
- 12.1—News and Cable Service.
- 12.16—Featuring a Steek Duo Art number; The 5CL Studio Orchestra Selection; cornet solo; fox trot; suite de ballet; reverie; waltz; selection; gavotte; finale.
- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcement.
- 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.
- 7.30—Stock Exchange, Market Reports and Station Announcements.
- 7.40—Sporting Talk by "Old Timer."
- 8—G.P.O. Chimes.
- 8.1—Studio Concert arranged by Miss Linda Wald.
- 9—G.P.O. Chimes.
- 9.1—Weather Reports.
- 9.3—Studio Concert—continued.
- 10.1—Studio Concert—continued.
- 10.16 approx.—Advertiser News Service.
- 10.30—Station Announcements; National Anthem.
- SATURDAY, MAY 29.
- 10.30—G.P.O. Chimes.
- 10.31—Overture; cornet solo; fox trot; melody; music festival; instrumental trio; selection; waltz dance; finale.
- Sporting Results when available.
- Steek Duo Art and Vocalion Numbers.

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—Mr. Fred Cavemett's jazz band in a programme of dance music.
- 8.45—The H. Lecture.
- 9—G.P.O. Chimes.

- 9.1—Weather Reports.
- 9.3—Jazz band, continued.
- 10.21—"Advertiser" News Service.
- 10.30—Jazz band, continued.
- 10.30—Station Announcements; National Anthem.

SUNDAY, MAY 30.

Morning Session:

- 11—Broadcast from Maughan Church—Divine Service; Children's Address, Rev. W. G. Allanson, Sermon, Rev. W. G. Allanson.
- 3.45—Pleasant Sunday Afternoon service from the Black Forest Baptist Church. Chairman, Rev. W. Keith Stoward.

Afternoon Session.

- 6.30—G.P.O. Chimes.
- 6.31—Bedtime Stories for the Children.
- 7—Relay from Rose Park Congregational Church—Sunday School Anniversary Service. Preacher, Rev. H. Watts Grimmett.
- 8.30—"Mignon" Quartette in a programme of instrumental and classical numbers. Station announcements; National Anthem.

Evening Session:

- 6.30—G.P.O. Chimes.
- 6.31—Bedtime Stories. Children's Concert, arranged by Miss Sylvia Thomas, L.A.B., A.M.U.A., I.Mus.A. (Auntie Sybil).
- 7.30—Stock Exchange, Market Reports and Station Announcements.
- 8—G.P.O. Chimes.
- 8.1—Schumann evening, under the direction of Miss Sylvia Thomas, I.Mus.A. L.A.M., A.M.U.A. Assisted by the "Mignon" Quartette.
- 8.30—Cookery Talk arranged by S.A. Gas Co.
- 8.40—Schumann evening, continued.
- 9—G.P.O. Chimes.
- 9.1—Weather Reports.
- 9.3—Schumann evening, continued.
- 10—G.P.O. Chimes.
- 10.1—Studio Concert.
- 10.30—Schumann evening, continued.
- 10.36—"Advertiser" News Service.
- 10.50—Station Announcements; National Anthem.

MONDAY, MAY 31.

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; 5CL Studio Orchestra will play; Overture; violin solo; fox trot song; novellette; instrumental trio; selection; cornet solo; waltz; 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.
- 7.50—Miss Wanda Edwards will speak on "Dancing."
- 8.1—Studio Concert, arranged by Madame Questel.
- 8.20—Twinkler's Original Humorous Talk (Mr. F. J. Mills).
- 8.40—Dance Programme, continued.
- 9.3—Dance Programme, continued.
- 10.30—Dance Programme, continued.
- 10.45—Station Announcements; To-morrow's Programme; National Anthem.

TUESDAY, JUNE 1.

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; 5CL Studio Orchestra will play; Selection; cello solo; fox trot; melody; novellette; andante; cornet solo; suite; 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).

- 5—G.P.O. Chimes.
- 5.1—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. Children's Concert, arranged by Miss Sylvia Thomas, L.A.B., A.M.U.A., I.Mus.A. (Auntie Sybil).
- 7.30—Stock Exchange, Market Reports and Station Announcements.
- 8—G.P.O. Chimes.
- 8.1—Schumann evening, under the direction of Miss Sylvia Thomas, I.Mus.A. L.A.M., A.M.U.A. Assisted by the "Mignon" Quartette.
- 8.30—Cookery Talk arranged by S.A. Gas Co.
- 8.40—Schumann evening, continued.
- 9—G.P.O. Chimes.
- 9.1—Weather Reports.
- 9.3—Schumann evening, continued.
- 10—G.P.O. Chimes.
- 10.1—Studio Concert.
- 10.30—Schumann evening, continued.
- 10.36—"Advertiser" News Service.
- 10.50—Station Announcements; National Anthem.

WEDNESDAY, JUNE 2.

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

- 11.30—G.P.O. Chimes.
- 11.31—Steek Duo Art and Aeolian Vocalion Records.
- 12—G.P.O. Chimes.
- 12.1—News and Cable Service.
- 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Selection; violin solo; fox trot; instrumental trio; waltz; Maori Poi song; cornet solo; serenade nocturne; 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.
- 7.20—Coper Lectures, Ven. Archbishop Moyes.
- 8—G.P.O. Chimes.
- 8.1—Relay from Messrs. Chas. Moore & Co.'s "Tearooms," complimentary concert to Mr. Richard Watson, organised by Miss Lee.
- 8.30—Science lecture arranged by Messrs. F. H. Foulding & Co.
- 9—G.P.O. Chimes.
- 9.1—Weather Reports.
- 10.30—From the Studio, Musical Numbers.

10.40—Station Announcements; National Anthem.

THURSDAY, JUNE 3.

- 11.30—G.P.O. Chimes.
 11.31—Featuring a Stock Duo Art number.
 11.40—"Advertiser" News Service.
 11.55—Vocalian Number.
 12—G.P.O. Chimes.
 12.1—"Advertiser" News Service.
 12.10—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play: Selection; 'cello solo; fox trot; waltz; allegro moderato from "Unfinished Symphony"; serenade; novelty; instrumental rilo; 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—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—G.P.O. Chimes.
 8.31—Bedtime Stories.
 7.15—Health Talk, given by School for Mothers, arranged by Mr. A. M. Whitttenbury.
 7.30—Market Reports.
 7.40—Poultry Talk by Mr. A. M. Whitttenbury.
 9—G.P.O. Chimes.
 9.1—Mr. Fowles and his jazz orchestra in a programme of avicaptical melodies, interspersed with vocal numbers by leading artists.
 9.3—Jazz orchestra, continued.
 10.1—Jazz Orchestra, continued.
 10.30—Jazz orchestra, continued.

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FRIDAY, MAY 28.

Midday Session.

12.20—British Official Wireless News from

Rugby; Reuters and the Australian Press Association cables.

12.45—Stock Exchange Information.

12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Report.

1—Time Signal.

1.1—Studio Orchestra.

1.10—Bernard J. Russell, pianoforte solo.

1.17—Tasma Tiernan, 'cello solo.

1.22—Station Trio.

1.30—Mr. Hugh Egan, Draughts—Public Draughts Boards.

1.45—Bernard J. Russell, pianoforte solo.

1.52—Studio Quartette.

2—Close down.

Results of the coursing at Geelong will be given as they come to hand.

Afternoon Session.

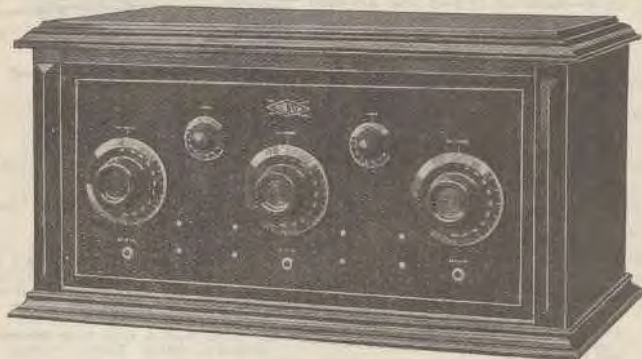
3—Latest Australian Cricket Eleven scores, by courtesy of Reuter's Ltd.

3.1—Studio Orchestra.

3.4—Walter Smith, cornet solo.

3.4—Rita Coccan, soprano.

3.21—The Four Shekks.



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- 3.28—An Fait, of Messrs. Buckley and Nunn Ltd., fashion talk.
 - 3.43—Station Trio.
 - 3.58—Rita Coonan, soprano.
 - 4.8—Dorothy Roxburgh, viola solo.
 - 4.13—The Four Sheikhs.
 - 4.20—Bessie Gannson, violin solo.
 - 4.26—Station Trio.
 - 4.31—Studio Orchestra.
 - 4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuter's Ltd.
 - 'Herald' news service, Stock Exchange information.
 - 5—Close down.
- Evening Session.
- 6—Children's Hour. Stories by Billy Bunny; Nursery Rhymes, The Brother and Sister Visit the Washing Fairy, Black Beauty.
 - 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. Borret Ltd.
 - 7.4—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.
- 7.20—Under the auspices of the De-

- partment of Agriculture, Mr. S. A. Cook, Citriculturist; The Citrus Industry.
 - 7.40—Mr. Hubert Harben, of the Dion Bencicault Company, now appearing at the King's Theatre, will speak from his dressing-room, by permission of J. C. Williamson Ltd.
 - 8—Transmission from the Wireless Exhibition, Wirth's Olympia, Steinfort's Broadcasters.
 - 8.10—Roy Warren, bass.
 - 8.17—Steinfort's Broadcasters.
 - 8.30—Antoine selection.
- From the Studio:
- 8.35—Collingwood Citizens' Band.
 - 8.45—The Captain: School Sport and School Life.
 - 9.5—Edouard and Raymond Lambert, piano and violin.
 - 9.15—Raymond Lambert, piano solo.
 - 9.20—Roy Warren, bass.
 - 9.27—Collingwood Citizens' Band.
 - 9.32—M. J. Pettigrove, tenor.
 - 9.39—Thelma Ready, banjo.
 - 9.49—Mr. Leslie Brauning.
 - 10.4—Edouard Lambert, violin recital.
 - 10.13—Raymond Lambert, piano solo.
 - 10.20—M. J. Pettigrove, tenor.
 - 10.27—Thelma Ready, banjo.
 - 10.34—Collingwood Citizens' Band.
 - 10.40—Latest Australian Cricket Eleven scores, by courtesy of Reuter's Ltd.

- 'Argus' news service. Meteorological information. British official wireless news from Rugby.
 - 11—God Save the King.
- SATURDAY, MAY 29.
- Morning Session.
- 11—Sonora recital.
 - 11.1—Harold Rodgers, organ recital.
 - 11.25—Bernard J. Russell, pianoforte solo.
 - 11.35—Sonora recital.
 - 11.43—Harold Rodgers, organ recital.
 - 11.49—Bernard J. Russell, pianoforte solo.
 - 11.55—Sonora recital.
 - 12—Time Signal, British Official Wireless News from Rugby, Reuters and the Australian Press Association Cables, Latest Australian Cricket Eleven Scores, by courtesy of Reuters, "Argus" and "Herald" News Service, Shipping Intelligence.
 - 12.20—Time, British official wireless news from Rugby, Reuter's 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 Report.
 - 1—Time Signal.

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- 1.1—Studio Orchestra.
1.10—Agnes Fortune, piano solo.
1.15—Mortier J. Pettigrove, tenor.
1.22—Station Trio.
1.28—Walker Smith, cornet solo.
1.36—Mortimer T. Pettigrove, tenor.
1.43—Studio Orchestra.
1.51—Tasma Tiernan, cello solo.
1.56—Studio Orchestra.

- 2—Close down. Result of the Federal Hurdle Race, Moonee Valley Races.
2.30—Result of Headwind High Weight Handicap.

Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuter's Ltd. Result of Piccaniny Handicap, Moonee Valley.

- 3.5—Carlo Pasterla and his orchestra.
3.40—Result of Commonwealth Steeple, Moonee Valley.

- 3.41—Carlo Pasterla and his orchestra.
4.29—Result of Mount Alexander Handicap, Moonee Valley.

- 4.21—Carlo Pasterla and his orchestra.
4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuter's Ltd. Sporting results. "Herald" and "Argus" news services. Result of Kellor Handicap, Moonee Valley.

- 5—Close down.

Evening Session.

- 5.45—All sporting results. Local, Country, and Interstate.

- 6—Children's Hour. Stories by Mary Gunneaf. Poems: The Broad Bean, A New Little Bo-Peep. Stories for the littlest ones. The Twins. For the bigger ones, Hiawatha.

- 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.

- 6.57—Weather Synopsis; Shipping Movements.
6.57—Stock Exchange Information.

- 7.2—Fish Market Reports by J. H. Borrei Ltd.
7.4—Market Reports by the Victorian Producers Co-Operative Co. Ltd. Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session.

- 7.26—Mr. H. L. Walters, War Service Homes Commissioner: The Work of the War Service Homes Commission.

- 7.40—Dr. J. A. Leach: Colour in Birds.
8—Transmission from the Wireless Exhibition, Wirth's Olympia; Williamstown City Band.

- 8.12—E. Mison Wood, baritone.

- 8.19—Williamstown City Band.

- 8.30—Autotone selection.

From the Studio:

- 8.35—C. Pitman, steel guitar.

- 8.40—Eileen Starr, soprano.

- 8.47—Mr. H. A. Brown: Gladiali—Treatment of Corns after Flowering.

- 9.2—Williamstown City Band.

- 9.10—E. Mason Wood, baritone.

- 9.17—Williamstown City Band.

- 9.20—M. J. Pettigrove, tenor.

- 9.27—C. Pitman, steel guitar.

- 9.47—Eileen Starr, soprano.

- 9.54—Williamstown City Band.

- 10.14—M. J. Pettigrove, tenor.

- 10.21—Williamstown City Band.

- 10.30—Latest Australian Cricket Eleven scores, by courtesy of Reuter's Ltd. "Argus" news service. Meteorological information. British official wireless news from Rugby. Sporting results, races, football, Metropolitan Soccer League, Metropolitan Amateur

- Association. A short resume of the wrestling bout at the Stadium, by Mr. Norman McCance.

- 11—God Save The King.

SUNDAY, MAY 30.

Morning Session.

- 10.45—Service from St. Paul's Cathedral. Sermon: Rev. F. A. Ray.

- 12.15—Close down.

Afternoon Session.

- 3—Pleasant Sunday Afternoon Service, Central Mission, Wesley Church. Chairman: Rev. C. Irving Benson. Address: Hon. Samuel Mauger—The Modern Outlook—which way are we trending?

- 4.30—Close down.

Evening Session.

- 6—Children's Hour. Stories by Billy Bunny; The Lost Garden. The Love-Heat Life, and Good Medicine.

- 6.45—Close down.

Night Session.

- 7—Service from Scots Church, conducted by the Rev. W. Borland; organist, Mr. Mansley Greer. Brief sermon by Dr. Borland on Imagination in Religion—St. Matt. 23, v. 9.

From the Studio:

- 8.30—Malvern Tramways Band.
8.37—Lance Fairfax, baritone, of the Gilbert and Sullivan Opera Company, by permission of J. C. Williamson Ltd.

- 8.44—Malvern Tramways Band.
8.54—Violet Jackson, soprano, of the Gilbert and Sullivan Opera Company,

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- 9.1—Euphonium and trombone duet.
- 9.7—Lance Fairfax, baritone.
- 9.14—Malvern Tramways Band.
- 9.21—"Argus" news service.
- 9.26—Malvern Tramways Band.
- 9.42—Violet Jackson, soprano.
- 9.49—Malvern Tramways Band.
- 10—God Save the King.

MONDAY, MAY 31.

Midday Session.

- 12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- British Official Wireless News from Rugby. Reuters and the Australian Press Association Cables. "Argus" and "Herald" News Service. Shipping Intelligence.
- 12.50—Stock Exchange Information.
- 12.59—Meteorological Information. Weather forecasts for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River Reports.
- 1—Time Signal.
- 1.1—Studio Orchestra.
- 1.12—Keith Desmond, monologist.
- 1.22—Walter Smith, cornet solo.
- 1.30—Musical programme by students of the Conservatorium. University of Melbourne, transmitted from the Club House, University, Carlton.
- 2—Close down.

Afternoon Session.

- Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 1—Studio Orchestra.
- 3.10—Mr. R. J. Locke: Parsia, Part 2.
- 3.25—Stratton Trio.
- 3.40—Iris Roderick, soprano.
- 3.37—Dorothy Roxburgh, viola solo.
- 3.42—Oliver Peacock, baritone.
- 3.49—Miss Flora Pell, Supervisor of Domestic Arts, Education Department —Domestic Economy.
- 3.4—Studio Orchestra.
- 3.12—Iris Roderick, soprano.
- 3.19—Studio Orchestra.
- 3.24—Oliver Peacock, baritone.
- 3.31—Studio Orchestra.
- 3.45—"Herald" news service. Stock Exchange information. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 5—Close down.

Evening Session.

- 6—Children's Hour. Stories by Billy Bunny: Lillies' Fairy Story, The Lost Princess and Black Beauty.
- 6.10—Latest Australian Eleven Scores, by courtesy of Reuters Ltd. "Argus" and "Herald" News Service. Reuters and the Australian Press Association Cables.
- 6.53—Weather Synopsis; Shipping Movements.
- 6.57—Stock Exchange Information.
- 7.2—Fish Market Report by J. R. Barrett Ltd.
- 7.2—Fruit Market report by J. R. Barrett Ltd.
- 7.4—Market reports by the Victorian Producers Co-operative Co. Ltd.; Haymarket Sales: Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session.

- 7.20—Under the auspices of the New Settlers' League, Mr. E. R. Pitt, Assistant Librarian, Public Library for Victoria: Travelling Libraries for Country Borrowers.
- 7.30—Under the auspices of the Department of Agriculture, Dr. W. A. N. Robertson, Chief Veterinary Inspec-

tor: Review of the Live Stock Industry.

- 8—Agnes Fortune, pianoforte solo.
- 8.7—Eileen Starr, soprano.
- 8.15—British Music Society Concert, transmitted from the Assembly Hall, Collins Street. During interval, Francis King, elocutionist; sextet in E flat for two violins, two violas, and two cellos; string quartet in G major; the British Music Society's Quartet.
- 10—Eileen Starr, soprano.
- 10.10—Harold Rodgers, organ recital.
- 10.20—Eileen Starr, soprano.
- 10.30—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" news service. Meteorological information. British official wireless news from Rugby.
- 11—God Save the King.

TUESDAY, JUNE 1.

Midday Session.

- 12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- British Official Wireless News from Rugby. Reuters and the Australian Press Association cables. "Argus" and "Herald" News Service. 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.
- 1.15—Stanley Adams, violin solo.
- 1.20—Mr. Hugh Egan—Daughters—Clance Aids but Little.
- 1.40—Studio Orchestra.
- 1.55—Stanley Adams, violin solo.
- 2—Close down.

Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 3.1—Studio Orchestra.
- 3.10—The Four Shicks.
- 3.27—Keith Desmond in a Dramatic Sketch.
- 3.37—Studio Orchestra.
- 3.42—Matron Moreland, Infant Welfare.
- 3.57—The Four Shicks.
- 4—Tasma Tiernan, cello solo.
- 4.9—Keith Desmond, in a humorous sketch.
- 4.19—Au Falt, of Messrs. Buckley & Nunn Ltd.—Fashion Talk.
- 4.34—Studio Orchestra.
- 4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange Information.
- 5—Close down.

Evening Session.

- 5—Children's Hour. Stories by Mary Gumsell, Poems The Thistledown Fairies; Shadows on the wall; Story for the littlest ones; How Ball Saved His Ship; For the bigger ones—Hawatha, with Coleridge-Taylor's Hawatha Music by "The Musical Cantree."
- 6.10—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" and "Herald" news services. Reuters and the Australian Press Association Cables.
- 6.53—Weather Synopsis; Shipping Movements.
- 6.59—Stock Exchange Information.
- 7.2—Fish Market Reports by J. R. Barrett Ltd.
- 7.4—Market Reports by the Victorian Producers Co-operative Co. Ltd.; Haymarket Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
- Night Session.
- 7.20—Mr. R. H. Wilton, Everyday Chemistry —Rare Earth, Part 2.
- 7.40—Under the auspices of the Uni-

versity Extension Board—Mr. Sutton Crowe, of the Conservatorium of Music, University of Melbourne; Orchestra for the People.

- 8—Ernest G. Oram and the Tivoli Orchestra, and the first half of the Tivoli Programme, transmitted from the Tivoli Theatre by permission of Muegrove's Ltd.
- 9.10—Dr. Loftus Hills, Popular Science.
- 9.25—Steinfors's Broadcasters.
- 9.31—Mr. J. Pettigrove, tenor.
- 9.36—Steinfors's Broadcasters.
- 9.45—Keith Desmond, in the Third Act of "The Christian."
- 9.55—Steinfors's Broadcasters.
- 10.3—Mr. J. Pettigrove, tenor.
- 10.10—Steinfors's Broadcasters.
- 10.17—Keith Desmond, in one of his own compositions—A Cockney's version of "The Death Of Nelson."
- 10.27—Steinfors's Broadcasters.
- 10.30—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" News Service. British Official Wireless News from Rugby. Meteorological information.
- 11—God Save the King.

WEDNESDAY, JUNE 2.

Midday Session.

- 12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- British Official Wireless News from Rugby. Reuters News Service. Shipping Intelligence.
- 12.45—Stock Exchange information.
- 12.50—Meteorological information. Weather forecasts for Victoria, Tasmania, S.A. and N.S.W. Ocean forecast. River reports.
- 1—Time Signal.
- 1.1—Le Cassik's Quartette.
- 1.15—The Four Shicks.
- 1.22—Le Cassik's Quartette.
- 1.40—The Four Shicks.
- 2—Close down.
- 2.10—Result of Hurdle Race — Ballarat Turf Club Races.
- 2.45—Result of Trial Handicap—Ballarat Turf Club Races.

Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.
- 3.1—Studio Orchestra.
- 3.10—Miss S. V. Parker, Mahatma Gandhi.
- 3.26—Studio Orchestra.
- 3.31—Oliver Peacock, baritone.
- 3.39—Tasma Tiernan, cello solo.
- 3.43—Keith Desmond, elocutionist.
- 3.50—Result of Brush Steeplechase—Ballarat Turf Club Races.
- 3.51—Studio Orchestra.
- 3.55—Oliver Peacock, baritone.
- 4.2—Walter Smith, cornet solo.
- 4.12—Sister Park, of the Victorian Baby Health Centre, Mothercraft.
- 4.26—Result of Welter Handicap—Ballarat Turf Club Races.
- 4.27—Keith Desmond, elocutionist.
- 4.34—Studio Orchestra.
- 4.45—Result of Handicap—Ballarat Turf Club Races.
- 4.46—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange Information. Result of Welter Handicap.
- 5—Close down.

Evening Session 6 to 7.35

- 6—Children's Hour. Little Miss Knockaburra will relate the fourth installment of The Doings of Nui and his chums at school, and the story Reports by the Victorian Producers Co-operative Co. Ltd. Haymarket Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
- 6.53—Weather Synopsis. Shipping movements.
- 6.57—Stock exchange information.
- 7.2—Fish market reports by J. R. Barrett Ltd.
- 7.4—Market Reports by the Victorian Producers Co-operative Co. Ltd. Haymarket Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

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