

WIRELESS WEEKLY

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

transmission by post as a newspaper.

VOL. 8. No. 3.

FRIDAY, MAY 14, 1926.



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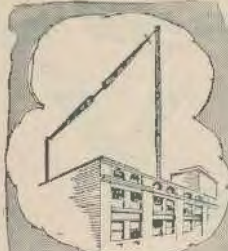
Representative for Australia:

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CHALLIS HOUSE, MARTIN PLACE, SYDNEY.

"In Harmony with the Home and Air"—Magnavox

Information for
the Crystal
and
Valve User



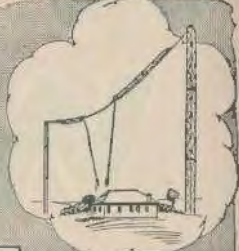
3.A.R. MELBOURNE



2.K.Y. SYDNEY



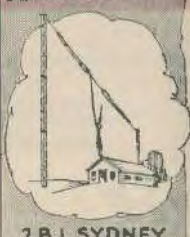
2.F.C. SYDNEY



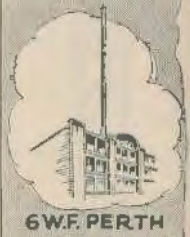
3.L.O. MELBOURNE



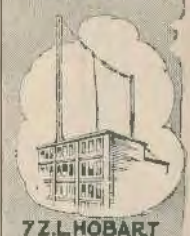
4.Q.G. BRISBANE



2.B.L. SYDNEY



6.W.F. PERTH



7.Z.L. HOBART



5.C.L. ADELAIDE

Distance no longer a bar!
UDISCO
RADIO RECEIVERS
Lay Australia at your
finger-tips.

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.

Yet this is so. Nightly, owners of "UDISCO" Radio Receivers—without stirring from comfortable homes—are accomplishing what to Flinders entailed many weary days of hunger and privation.

All "UDISCO" Sets, whether "Eights," "Sixes," "Fives," or "Threes," are built to a standard of excellence in efficiency and design never before equalled in the world.

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The "Capacidyne" circuit employed ensures reception of Stations operating on any wavelength between 20 and 2000 metres. This circuit—a purely Australian invention—gives selectivity, volume without distortion, superlative tone quality and ease of control.

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"UDISCO" Eight on Stand with Quam Loud Speaker, Clyde United Wet Accumulator, Ray-O-Vac B Batteries, Valves, and Aerial Equipment . . . 110 gns.

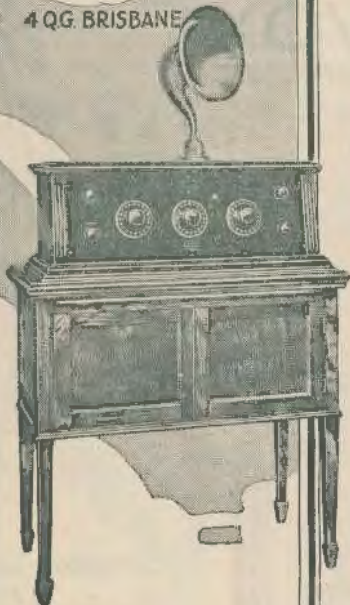
"UDISCO" Five, with Hawley Speaker, and requisite Batteries. No Stand. . . 245

"UDISCO" Six on Stand with Quam Loud Speaker, Clyde United Wet Accumulator, Ray-O-Vac B Batteries, Valves, and Aerial Equipment . . . 75 gns.

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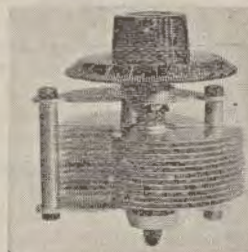
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A balanced precision instrument scientifically designed, having extreme accuracy, combined with mechanical strength. Supplied with or without Vernier adjustment.

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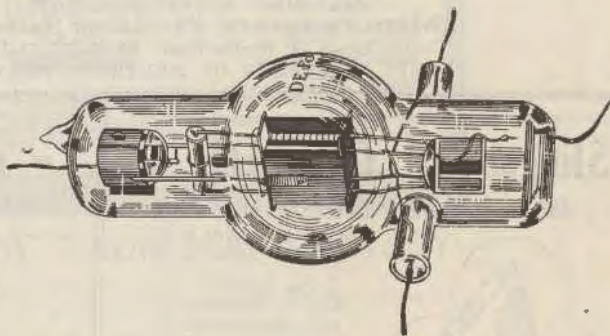
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Filament Current,
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THE PROGRAMMES.

In the columns of this paper during the last two or three weeks there has been considerable discussion with regard to the quality of the programmes put out by our Sydney stations, with particular reference to 2BL. It should be pointed out that the letters that were published constituted only a small proportion of the number that were actually received, a careful checking up of which shows beyond all doubt that if these letters may be taken as representative, then something like 90 per cent. of the listeners throughout New South Wales are entirely satisfied with the programmes.

We take the view that with due consideration of all aspects of broadcasting in New South Wales, then the Sydney Stations (and, it must be said, 2BL in particular), are giving us a service which could not, under existing circumstances be improved upon. It must be remembered that the limitations of anything are entirely determined by financial considerations, and the plain facts are that, to narrow the controversy down to 2BL, that station is supplying a service far more comprehensive and satisfactory than can reasonably be expected of it, considering the amount of revenue received in hard cash.

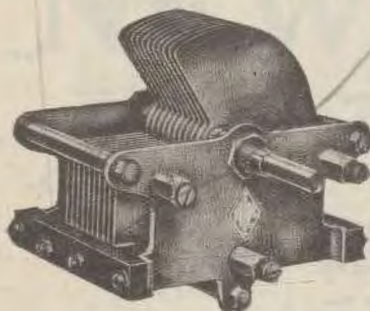
It is an old but very true saying that, "you cannot get blood out of a stone"—it is neither just nor reasonable to expect as complete a programme from 2BL as from, say, 3LO, when the latter station receives a financial return far in excess of 2BL's. Another point of view is that 70 per cent. of the revenue in New South Wales goes to 2FC, the remaining 30 per cent. to 2BL. The fairer comparison therefore would be not between 2BL and 3LO, but between 2BL and 2FC.

Despite the financial handicap under which 2BL labors, it should not be forgotten that before long a new high power installation will be on the air, thus showing conclusively that the needs of the public are of first importance to the management. Given a more equitable method of apportioning the revenue than is in force at the present time, any doubt that exists as to whether or not the quality of programmes is directly determined by financial return would be quickly set at rest.

That there is occasional overlapping or duplicating by both 2BL and 2FC goes beyond saying, but, this, together with other discrepancies which inevitably breed dissatisfaction could be easily overcome with the aid of a little co-operation.

A. W. WATT.

Montrose Low Loss Condensers Make all the —Difference



Low phase angle loss. Low insulation leakage due to scientific design and construction. Rotor grounded to frame eliminating hand capacity effect. Improved adjustable bearings resulting in smooth easy action of rotor. Sturdy construction making it mechanically perfect.

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Try one in your set and note the difference.
 The Popular ALL BAKELITE NA-ALD Sockets 2/9 each

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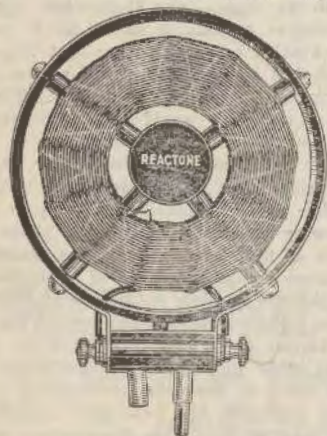
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THE VERY LATEST INVENTION—JUST ARRIVED.



Tension winding gives the best air spaced formation—low self capacity—sharper tuning—better reaction—and uniformity.

Each Reactone inductance is wound by a special process, applying a constant tension to the wire.

The formation of Reactone Coils gives the efficiency of basket coils without the disadvantage of shellac or wax—the efficiency of solenoid coils without their bulk.

Use "REACTONES" on all valve and crystal sets for greater strength of signals and long distance work.

PRICES:—25's, 6/3; 35's, 6/9; 40's, 7/-; 50's, 7/6; 75's, 8/3; 100's, 9/6; 150's, 11/6.

Parsons and Whittemore Ltd.

Radio Department, 30 Market Street, Sydney

Valuable Information for the Crystal and Valve User

By *Wireless Weekly*

We are constantly receiving letters from our readers, who state that they are very anxious to learn the Morse Code but, unfortunately, are unable to tune in Station 2WW. The reason for this is not because they are out of Crystal range with our station, but in most cases it is due to the fact that the receivers they use will not tune down low enough for the wavelength which we work on (viz., 200 metres). Heretofore, most of the short wave receivers have employed valves as detectors, but with the crystal detector receiver to be described in this issue it is possible to receive amateur phone transmissions on wavelengths considerably below 200 metres. The usual method of showing the back view is given for the benefit of the beginner who invariably does not understand the circuit diagrams.

The materials required are not costly. The inductance or tuning coil is of the two winding type with primary and secondary. This, together with the tapped crystal circuit, provides excellent selectivity for low wavelengths.

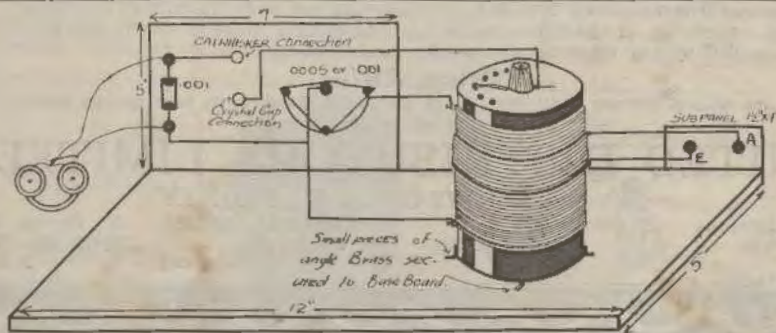
Method and Order of Construction.

A three inch cardboard former should first be varnished or shellaced to exclude moisture. After the tube is thoroughly dry, two small holes should be punched near one end of it and the wire looped through these holes, so that about six inches of wire is left for connecting to the terminals. Next, wind on 50 turns of No. 22 d.c.c. wire, taking a tap at the 10th, 20th, 30th, and 40th turns. The method of making these taps should be as follows: Wind on ten turns, then make a six inch loop in

the wire. Carefully twist together the two wires which form the loop. Punch a small hole in the cardboard former as near to the 10th turn as possible; pass through the two strands of wire. Now wind on ten additional turns and make another loop, and so on until 50 turns have been put on.

After the coil has been completed, take a pen-knife and scrape the ends of the two wires of each loop, after which they should be connected to switch studs. The ordinary loose coupler wood ends are quite O.K. for mounting the switch arm and studs.

Take particular care to see that the four tapings go to the correct studs, viz., 10th, 20th, 30th, and 40th turns go to the 2nd, 3rd, 4th, and 5th studs, and the beginning and end of the wire go to the 1st and 6th studs respectively. Directly over the secondary coil (shown as L2 in circuit diagram), is mounted the primary coil L1 which should consist of 12 turns of the same gauge wire. It will be readily seen from the circuit diagram or back view that the two ends of this coil go to the aerial and earth terminals. The variable condenser, which tunes the secondary, may be a .001 or a .0005, but for the very low wavelengths a .0005 will prove the most efficient. With either of the condensers, however, the wavelengths of 2WW, 2KY, or 2UE can be successfully tuned in. Furthermore, the same receiver can be used for reception of all the other lower wave broadcast stations within crystal range. For wavelengths above 200 metres the switch arm should be placed on the 6th stud. For the low wavelengths care-



Back View.



The
QUAM
 Radio's Best Speaker

Invented and manufactured by James P. Quam, of the Quam Radio Corpn., 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.

Price, £9/-/-

See the QUAM on our Stall, No. 14, at the Radio Show; or at your nearest dealer
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(Wholesale Only) 72 Clarence St., SYDNEY

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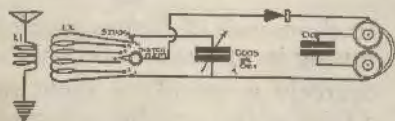
26 Chesser St., Adelaide
 564 Bourke St.,
 Melbourne.

Cr. Jervois Quay and
 Harris Sts., Wellington,
 N.Z.

ful experiment is necessary with the tapped crystal circuit, and the tuning of variable condensers. The receiver is wonderfully selective when any one of these tapped positions are used.

The following materials are necessary to build this crystal receiver:

- 1 3 inch cardboard former.
- 1 switch arm.
- 1 wood end.



Circuit Diagram.

- 6 switch studs.
- 1 Radion or Bakelite panel, 7 x 5 inches.
- 1 Radion or Bakelite panel, 1½ x 1 inch.
- 1 Crystal Detector.
- 1 Variable condenser, .0005 or .001.
- 6 Terminals.

Tapping Threads and Drilling Panels.

The average home constructor, in spite of his small kit of tools, usually makes a very creditable looking receiver. Those readers who have visited the Amateur Stand at the Exhibition will, we feel sure, quite agree with the above statement.

The following table, which shows at a glance the size of hole necessary for clearance or tapping of certain gauge screws, should be very helpful. There is probably nothing more annoying than to unscrew a terminal head and find that the whole thing revolves. By carefully drilling the correct size hole, however, the thread of the terminal itself will usually cut sufficient thread in the panel to prevent this happening.

The first column shows the sizes of the various screws used for radio purposes. The first figure shows the size of the screw and the following figure in that column denotes the number of threads

to the inch. The second column shows the size of the drill necessary for a hole that is to be tapped for threading, and the third column shows the size hole necessary for full clearance of the screw. Example: If a piece of radion or bakelite is to be tapped for an 8-32 screw a number 28 drill should be used. If, however, a clearance hole is required the No. 18 drill is needed.

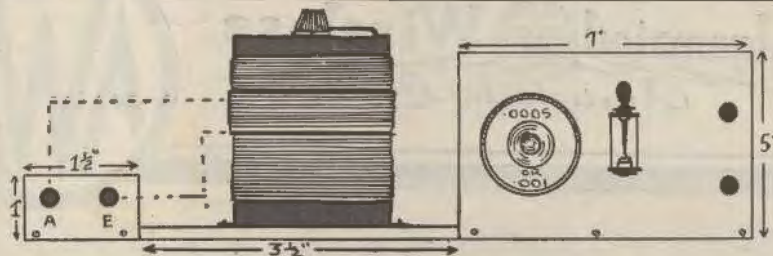
The most common sized screws used for radio work are 4/32, 6/32 and 8/32 machine screws. The 6-32 will generally be found to be the size used for securing condensers, rheostats, etc., and are invariably supplied with the apparatus.

TABLE.

Size of Drill	Tap drill size	Clearance Drill size
2-56	48	42
3-48	44	37
4-36	41	31
5-40	36	29
6-32	33	27
7-32	30	22
8-32	28	18
9-32	24	13
10-33	20	9
10-24	23	9
11-24	19	3
12-24	15	1
14-24	6	1
14-20	10	4

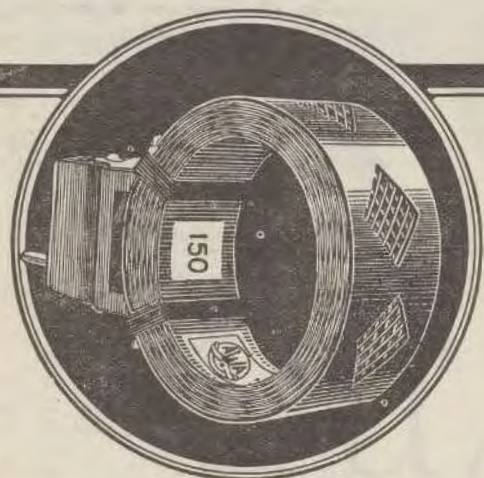
WIRE FENCE FOR EARTH.

Mr. George Weaton who is at present holidaying at Hazelbrook writes us that reception at that locality is unusually bad, static being very much in evidence. The earth being the main trouble, he tried all the usual methods of burying a sheet of iron, kerosene tins, water tanks, and iron roofs and found them all very noisy. A counterpoise was found of no use, and as a last resource he tried the wire fence, which proved to be more than satisfactory. This is a useful tip to those who may be up against the same problem.



Front View.

PHILCO—"All the Time"—BATTERIES



Tuning In

In thousands of homes people are tuning in on their radio sets.

Scarcely a sound; a slight turn, a faint noise; another adjustment, and then clearer and clearer comes music from the air.

Is your nightly "tuning-in" as simple as this?

If you want simple, quick and more selective tuning use AWA Coils.

AWA Duolateral Coils

No. of Turns.	Wavelengths with .001 Condenser.	Prices.	
		Mntd.	Unmtd.
20	50-260	6/8	2/-
25	100-375	6/6	2/2
35	150-525	6/6	2/2
50	190-675	6/9	2/4
75	240-925	7/6	2/6
100	340-1,340	8/-	2/9
150	500-1,980	8/3	3/-
200	650-2,675	8/6	3/6
250	725-3,575	9/6	3/9
300	1,050-4,200	10/-	4/3
400	1,600-6,000	11/-	5/-
500	2,000-7,500	12/6	7/-
600	3,000-9,000	13/6	9/-
750	4,000-11,000	14/6	10/6
1,000	4,500-16,000	16/-	12/4
1,250	6,310-18,240	18/-	14/-
1,500	7,635-22,210	19/-	15/-
1,600		1/-	16/-

Wound on automatic - precision machinery, AWA Duolateral Coils combine high conductivity with effective insulation between turns. They are mounted on de luxe bakelite coil plugs, and a black celluloid diamond strip, and then the shoulders are specially bound with black waxed thread, which holds the coil rigidly in position.

AWA Coils are non-hygroscopic, offer very low radio-frequency resistance, and self capacity is at a minimum. They may be used as tuning, loading, coupling, or wavemeter inductances, ensuring the highest degree of efficiency for your set.

Made in sizes to suit your requirements, each AWA Duolateral Coil is attractively boxed, and the wavelength table printed on the carton. Also supplied unmounted in red cartons.

AWA Mounted Coils are supplied only in Blue Cartons.

At all Radio Stores.

Amalgamated  Wireless
(Australasia) Ltd.



Queries Met By Every Beginner

By "WIRELESS WEEKLY."

We are this week dealing with three more queries sent in by readers:—

(1) Can a loop be used with a one-valve receiver for broadcast reception?

A loop will not (generally) be satisfactory for such a receiver, because the feeble impulses which it receives will not actuate the detector valve sufficiently to produce enough energy to operate the diaphragm of the headphones. A loop can only be used for reception of broadcast wavelengths, where the receiver employs one or more stages of high frequency amplification. In this way the feeble impulses collected by the loop are magnified so that they are strong enough to be heard after being rectified to an audible signal by the detector valve.

Those readers who will experiment with a good loop, using one stage of radio, tuned plate method, will be very agreeably surprised at the results they will obtain. While an aerial has certain directional effects, it is not practicable to move it about so that signals from all directions may be received with comparatively equal strength. A loop, however, can be rotated without much effort for directional effects. The larger, physically, the loop is, the greater its energy pick-up. Remember this when constructing yours!

(2) What tools do you consider necessary for the average home constructor?

The following list of tools is absolutely necessary where one wants good work to result:—

- 1 Adjustable square.
- 1 Pair of dividers.
- 1 Pair of wire cutting pliers.
- 1 Pair of long nose pliers.
- 1 Pair of round nose pliers.
- 1 Centre punch.
- 1 Scriber.
- 1 Soldering iron.
- 1 Hand drill and set of drills.

(See table showing size of drills necessary for tapping or clearance.)

- 3 Screw-drivers, various sizes.
- 1 Hammer.

(3) Should a counterpoise be placed underneath the main aerial and what length should it be?

Probably the most efficient counterpoise system is one which is an exact shadow of the main aerial, and is situated directly underneath. Where this is not convenient or practicable, however, the counter-

poise may consist of a number of wires placed at different angles, and covering as much surface area as possible. For convenience it should be from 8 to 10 feet above the ground.

It is a very good plan to tune the counterpoise to the exact fundamental of the aerial. Where a wavemeter is not available this may be done (approximately) in the following manner: Tune-in to a weak station with the main aerial and earth connection. When the correct settings have been obtained, carefully note the volume. Now connect the counterpoise in lieu of the aerial, being careful not to alter the tuning adjustments of the receiver. Invariably the counterpoise will have a smaller inductance value than the aerial, therefore its fundamental may be smaller. In this case inductance must be added. To find the correct amount required, an ordinary coil fitted with a slider should be placed in series with the aerial and adjusted until the same volume of signal is again obtained.

If the signals are weaker when the inductance is added, you may be sure that the fundamental of the counterpoise is larger than the fundamental of the aerial, in which case a variable condenser must take the place of the inductance. Due allowance in volume, of course, must be made for the difference in height of the aerial and counterpoise.

Readers should remember our oft-repeated remarks that none of us can be sure our earths are efficient until we have given the counterpoise a trial. See Fig. 1 for method of tuning counterpoise.

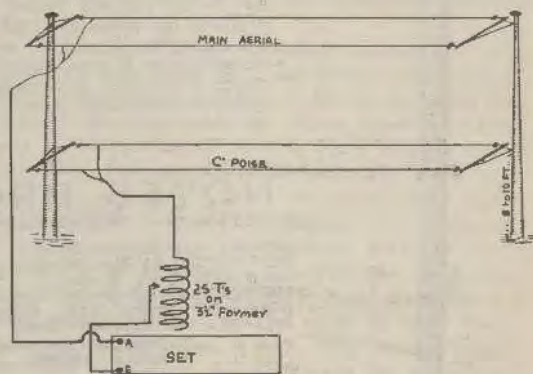


Fig. 1.

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



FAMED THE WORLD OVER

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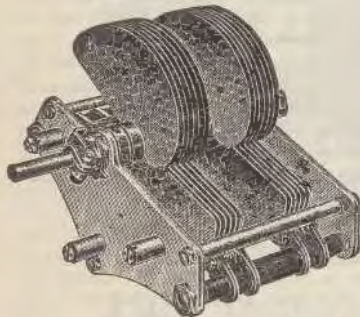
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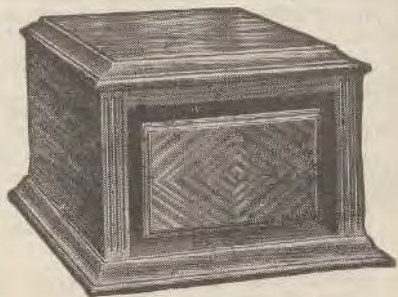
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BRITISH **Brown** THROUGHOUT

A PLEA FOR HONESTY

By "HELLO."

I have been interested in discovering the effects of the alteration of the power of Farmer's service in Sydney. To the north of the new station at Penant Hills the change has been met with cursings and groanings. These people enjoyed good results under the old system. To the south, where once was tribulation, joy now reigns. This is one of the freaks of wireless which at present can neither be explained nor cured. It is, of course, the sets without selectivity that suffer, and it really begins to look as if the day of the small, ill-made, home-made set is waning.

No one with any intelligence can fail to see that wireless is greater than any of its setbacks and is bound to make headway. As well imagine that the telephone system is threatened because at times the service fails to give satisfaction as think that because a few licenses are allowed to lapse that the "boom" has passed. The boom has never yet happened. All that has occurred is that a few thousand people have commenced the A B C of wireless, pioneers of the great army of the general public that, to maintain their places in everyday life, will be forced to instal wireless as an ordinary necessity of existence.

The obstacle to universal adoption of home wireless is not expense. That will be overcome by the "easy payments" system, which will enable the public to put in sets that will be able to "get" nearly all stations for all practical purposes. The real obstacle is the almost universal feeling that wireless needs a mechanical mind to run it. Scores of people who will one day be subscribers have lamented their ignorance of the principles of wireless as though that ignorance were a boulder that for ever blocked the way to a road of such delight. Education in the simple principles of the new necessity can be imparted in a few minutes to any ordinarily intelligent person.

Now, I want to deal trenchantly with a situation that is causing concern to the broadcasting companies and seriously militating against the interests of the general body of listeners-in. That is the dishonesty of many holders of wireless sets who take advantage of the admitted difficulty of tracing their existence, and refrain from paying their subscriptions. It is by the subscriptions that broadcasters live and provide a service. Without money, and plenty of it, this service is bound to be cheap and inefficient; listeners-

in get peevish at poor programmes and refuse to continue; a vicious circle is created, which makes for increasing inefficiency.

Such meanness should be deprecated by all right-thinking people. It is stealing a service, just as manipulating a gas meter is stealing. There is no essential difference between this form of dishonesty and pocket-picking, except that the latter is a bit more sporting, because the thief does pit his brains and skill against the vigilance of the victim, whereas the stealer of a wireless service slinks in the coverts all the time. This represents a great problem, because, in spite of optimists and moralists, it seems that there are a good many of these sneak thieves in the community. Honesty seems to be the prerogative of the few when we come right down to tin-tacks. The majority are honest because they are afraid of retribution. Remove that fear, as in the cases under review, and the moral character is shown to be ready to pilfer.

What is the remedy? Well, to my mind, they are many and various. In the first place, public opinion is a tremendous weapon. When the world thought lightly and kindly of "three-bottle men" drunkenness was rife, and our great-grandfathers regularly drank themselves under the table. When a generation arose that would not tolerate swinishness it was remarkable how the next generation sobered up.

Similarly, if honest subscribers visited with unmeasured scorn those miserable thieves who steal a service that better people pay for, many would be shamed into compliance with decent principles. But you may ask, how are they to know whether their neighbours have paid their license? Well, there is a way. In many activities of life governed by regulations, the law requires the display in a prominent place of a certificate of compliance. Factories must post up a wall-sheet of such regulations, companies must leave posted up a copy of their last balance-sheet, engine-drivers must be ready to show their licenses, as must motor-drivers. Why should it not be made compulsory for listeners-in to keep in a small metal frame makers would gladly attach to all sets the current receipt for the license fee? Soon inspectors must be appointed to visit subscribers, in the same way as telephone, electric light and gas inspectors now make domiciliary visits, and it would soon become a recognised and ordinary thing to dis-

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play a small card receipt. Soon a set would be conspicuous by its absence, and visitors and friends would mark it. Few set owners would be prepared to risk having to make a lame explanation of its absence.

Another way of coping with this dishonesty which is widespread to have become a serious loss to broadcasters would be to tax the wireless set at its source, the valve, collecting the tax from the radio dealer, whose supplies could be checked through the Customs. He could be given a rebate on unsold valves in stock. The set owner could then be taxed directly, without the broadcasting company being forced to rely on an honesty that is so often lacking.

When I was in America a few years ago an interesting experiment was tried to discover if honesty were merely a fear of discovery.

Tobaccoists' shops to which both women and men were in the habit of coming were selected for the trial. The salesmen were given a certain amount of money for the experiment, and customers who came to purchase and who tendered large bills were given too much change. The salesman's error was made as obvious as possible, and notes were taken of the reaction of the customers. It was discovered that the men in a very large proportion of cases called the attention of the salesmen to the error, but women were seldom noted for the same honesty. This may, however, been due to her notorious ignorance in mental arithmetic.

I confess I wonder, in view of the appalling and wholesale dishonesty in bilking broadcasting companies of subscriptions, whether an honesty test carried out in this country under the same conditions would reveal such a large proportion of honesty. If the readers of this article hasten to clear their own skirts of blames, then I shall feel it has not been written in vain.

RE BROADCASTING STATIONS' PROGRAMMES.

(To the Editor.)

82 The Avenue, Hurstville,
23rd April, 1926.

Sir,—I note the controversy raging in your columns and would like a word to say on the matter.

First of all, a critic who suggests that bedtime stories, classical music, and church services should be eliminated from the programmes is evidently a keen wireless "fiend," or he would not know what was going on all the time. He is to be commended for this (but I would suggest to him, or others

like him, that he look a little further afield than from his own immediate presence, whoever he may be, whether he has written to your paper or not. Those who want all jazz music should remember there are others listening in. Personally when jazz music is on the board, I switch off to someone else. There are hundreds, no doubt, of others in the same position. I find the travel talks and the various lecturettes we are receiving are extremely educational, and the bedtime story hour, no matter from which studio it comes, is a little pleasantry for the children, not so much for grown-ups; surely they can wait till the children have finished. Regarding the jazz music, I was listening to 2BL the other night, and got jazz; I tuned in 5CL, jazz; 3AR, jazz; 3LO, jazz; 4QG, jazz; 2FC, jazz; surely the young lady who wants jazz music has a wide field in which to get jazz, probably, however, she has only a crystal set, so I would suggest to her that if that is the case, she procure either a single valve set (I have two which I have compiled from diagrams published in your columns, which bring in 5CL to 4QG quite plainly, and practically without any interference from 2BL on an outside aerial), or an amplifier, one or two valves as required.

It just so happens at times that the various studios are all broadcasting more or less the same sort of items, for instance, 3LO, 2BL, and 2FC may all be having lecturettes at the one time. We listeners-in sometimes wonder whether, in view of the fact that programmes are arranged ahead, it could not be conveniently arranged for this to be obviated, but seeing they are more or less in opposition I suppose it could not be done.

Yours faithfully,

V. G. LEE, J.P.

P.S.—I get Adelaide, Melbourne and Brisbane on a crystal with one valve amplifier, quite well, no doubt due to the high power of these stations.

I hate to hear the news from Randwick sandwiched in with children's talks or even precede them. We get the races from start to finish from Sydney courses and then from Melbourne, Adelaide, Brisbane and New Zealand. Isn't that a bit overdone?

SAR REACHES OUT.

A very fair idea of the great improvement in the SAR service to listeners-in may be judged from the fact that frequent reports of reception have been received from Lautoka, Fiji, from Mr. G. Worledge, who received the G.P.O. Chimes from Melbourne, and from Mr. G. H. Hilbig, Park Ridge, New Jersey, U.S.A., who received signals at fair strength from the Melbourne station.



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ON THE AIR

SUNDAY PROGRAMME.

Station 2BL will transmit on Sunday morning, May 16th, the Children's Service from the Newtown Congregational Church directed by the Rev. Mearns Massie. This service, which is unique in Australia, is entirely run by the children who comprise the congregation and is watched over by Mr. Massie with a minimum of interference. The soloists, lay-reader and other officers in the congre-



Mr. Cairo Bradley, who conducts the Bible Class from 2BL on Sunday, May 16.

gation are all young people. Not only has Mr. Massie succeeded in interesting the Children of the immediate neighbourhood but a number of branches of the Church have sprung up where loud speakers are available and church is far away. In the afternoon, Mr. Bradley will conduct his Bible Class and a Band Concert will be transmitted from the band stand on the Ocean Beach at Manly. In the evening the Rev. Mearns Massie will preach again at the Newtown Congregational Church and it is interesting to note that his congregation has completely outgrown the seating accommodation. Probably one of the most popular clerics in Sydney, Mr. Mearns Massie is just as widely appreciated as a wireless preacher. Mr. Alfred Cunningham, the distinguished baritone will be heard in solo numbers from the Studio after the service and Broadcasters Trio will also perform. Some items will be picked up from the Hippodrome when Mr. Rodger Jones will be one of the foremost artists.

AMBASSADORS QUARTETTE.

Monday, May 17th, provides a full programme to be broadcast from the Studio of 2BL. The Ambassadors Salon Quartette, under the direction of Mr. Claude McGlynn will play from 8 p.m. until 8.30, at which hour a fascinating lecture on "Early Australian Coins," will be delivered by Mr. D. Raymond. Mr. Robert Harper, Sydney's brilliant tenor will be heard in items from his repertoire, and a talk on Sporting Materials provided by Messrs. Mick Simmons' Limited will also be placed on the ether. The Newtown Band will also be transmitted. Miss Nellie Hayes, mezzo soprano, who has not previously been heard on the air will sing. AL Hammett's Dance Orchestra, playing from the Ambassadors, will provide jazz and dance music until midnight.

FASCINATING TALKS.

Mr. H. E. Crabb, who is broadcasting a series of talks on "The story of Civilisation," will continue his 6th lecture, the sub-title being "Primitive Races of People," broadcasting from the Studio of 2BL, on Tuesday, May 18th. Another fascinating series of talks of more than ordinary interest will commence on the same night, when Mr. G. C. Barnes, International President of the Independent Theosophical Society commences a series of "Real Ghost Stories." Miss Millie Hughes and Mr. Raymond Beatty will be heard in solo and duet numbers. Miss Nora Hill, the Irish Soprano



Hartley Court, Director of 2BL's Minstrel Show, brilliant musician and artist.

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Oliver Peacock, concert singer and theatrical artist, who will broadcast from 3LO.

will bring memories of the Isle of Erin with her delightful brogue, and Mr. Alfred Cunningham, whose cultured voice is so highly appreciated will also figure on the programme.

JAZZ NIGHT.

Wednesday, May 19th is one of Station 2BL's Jazz Nights and the City of Sydney Band is also heard broadcasting from Barlow's Chambers. The jazz music on this occasion is being supplied from the Embassy Palais by courtesy of Professor Bolot and with the orchestra under the direction of Mr. S. Bennett. Miss Heather Kinnaird will be heard in contralto solos singing from the Studio and Mr. J. M. Prentice will talk on "Foreign Affairs," answering telephone questions dealing with events that are transpiring throughout the world.

ON JAPAN.

Thursday, May 20th, introduces a new speaker to the World of Wireless in the person of Dr. Donald Luker who has been engaged for a series of talks on "Japan, Moods and Re Actions," the sub-title of the first talk being, "Heroic." Mr. Fraser Anderson will continue his "Astrological Aids to Character" talks and at 7.30 p.m., Mr. J. C. Morrell, the Deputy Commissioner of the War Service Homes Commission will deliver a brief address on "The Work of his Department." On the same programme the Waikiki Troubadours will be heard dealing with melodies from the Hawaiian Islands, and Howard Leighton will be heard in jazz selections, playing any numbers which are requested by telephone.

RACING FORM.

On Friday, May 21st, from the studio of 2BL, the Senior Sporting Editor of The Sun, will discuss racing form and tips and his prognostications will be listened to with the usual interest. This gentleman so far has been successful to quite an extraordinary degree in providing information. Miss Nora Mack, soprano, will sing, and Mr. Cec. Morrison and his Gloomchasers will provide that necessary element in all present-day programmes—jazz. The Travelogue Party will continue their exciting adventures in Egypt and the lure of the desert and the fascination of the pyramids will be vividly brought home to the listeners-in. As the travelling party is gradually approaching Australia there is an element of regret commencing to be felt by many people that these delightful series of talks is likely to come to a conclusion.

GUITARS AND BANJOS.

On Saturday, May 22nd, the Ahad Duo entertain with steel guitars and Mr. Billy Dick, humorist will be heard in delightful items. Miss Hilda Lane, soprano, will sing, and Mr. Victor Evans is also appearing on the same programme for the first time. Mr. Maurice Frunksi, a banjoist of ability, also figures on the programme. Bringa will deliver one of his talks on the Australian Aborigines.

SATURDAY MORNING FOR KIDDIES.

For several weeks past, the Uncles George and Jack have been entertaining the vast family of radio nephews and nieces in the Art Gallery of Messrs. Anthony Hordern & Sons Limited, which has been placed by this enterprising firm at their



Mrs. I. H. Moss, whose talks on travels will be heard from 3LO.

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disposal. Audiences varying from 5 to 1500 children and adults go there every Saturday morning for the privilege of seeing the Uncles in the flesh and also to meet one or two of the smaller artists who assist in the Bedtime Stories, notably "Cousin Clarice." Bringa, the Aborigine Authority has also been a feature of these entertainments. Although there are no added attractions other than the presence of the people enumerated above, the flow of children on these occasions appears to be unceasing and bears the most ample witness to the popularity of the Bedtime Story Hour.



Gwladys Finnister, a charming young soprano from 2FC.

THE HOLY LAND.

Mr. W. Bradley, whose name is referred to elsewhere in connection with the Bible Class that is being established by 2BL on Sunday Afternoons, is a distinguished teacher who has recently returned from a visit to Canada, U.S.A. and England. The nature of the work to be undertaken will be Bible Topic Talks, and as Mr. Bradley is a world traveller who spent 20 years in Egypt and Palestine he is able to deal in the most interesting and intimate manner with sights and scenes thoroughly well familiar to himself. There is probably no one in Australia who has a more intimate knowledge of the Holy Land as Mr. Bradley and it is interesting to remember that Mr. Bradley was in Jerusalem when the Ex-Kaiser paid his visit there in 1898 and was the only civilian allowed to accompany Lord Allenby in 1917 when Jerusalem was taken. In consequence of this, Mr. Bradley is well equipped to speak on the subject. Rev. B. S. Hammond, who is also closely associated with Mr. Bradley in the weekly United Intercessory Service at the basement of the Town Hall,



I mentioned last week that Capt. E. H. Wilkins, M.C. (the Australian Explorer who at present is leading an American Expedition to the North Pole), is very well equipped with radio apparatus, in fact so much so, that some bright humorist said that there would probably have to be a second expedition to carry the wireless gear. Now the local manager of the Burgess Battery Company has sent along this cablegram which is reproduced below.



It is very interesting to know that Capt. Wilkins is using Burgess Batteries for his transmitting and receiving plant—how much care must be given to the selection of such equipment when failure of any unit may mean disaster. In all probability, the wonderful results given by Burgess Batteries when used by McMillan on his famous Arctic Expedition influenced Capt. Wilkins when selecting his equipment. Captain Wilkins, by the way, is an Adelaide boy, who is adding to the already long list of Australians pioneering in the still unexplored portions of the Earth.

The Exhibition at the Town Hall would appear to have been an undoubted success; at all events from a financial point of view, it certainly paid its way and left a little over. Judging from the keen interest shown by the public, I should imagine that business should get a very nice boost and if this happens everybody will be satisfied.

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which are broadcast each Wednesday afternoon by 2BL, will assist at intervals in the conducting of the class. It is also hoped to interest the Rev. W. P. Nicholson, who is arriving in Australia during June. Messrs. Arthur Smith and Will White, Jnr., will provide sacred music during the period of these ½ hour talks.

WEDDING BELLS.

Listeners-in will be interested to hear of the marriage of Miss Nellie Chadwick to Mr. Charles Snodgrass, as both are well known in musical circles and both have been heard on the air. Miss Chadwick is leading soprano at St. Patrick's Church, Churchhill, where Mr. Snodgrass is the bass soloist. By a peculiar coincidence, although singing in a Catholic church, these young people are Anglicans, and on the occasion of their marriage, which took place in St. Phillip's Church of England, they had the unique experience of being conducted later to the Rectory of St. Patrick's Church, where the Marist Fathers who conduct the services, entertained the happy couple and drank their health. Both Mr. and Mrs. Snodgrass will continue their musical careers, but the name of Miss Chadwick is not likely to be lost sight of as Mrs Snodgrass intends retaining its use for concert appearances in view of the fact that her position is assured.

2FC SUNDAY SERVICES.

The morning service on Sunday, May 16, will be taken from St. Mark's Church of England, Darling Point, and the afternoon service from the Petersham Congregational Church, where a vocal and organ recital will be arranged by Mr. Christian Holleman. The evening service from the Pitt St. Congregational Church, and at 8.30 from the New Strand Theatre, Leichhardt, will be broadcast the first Sunday night Band Concert by the Leichhardt Band, Champions of New South Wales.

CRYSTAL PALACE.

From the Crystal Palace, on May 15th, 2FC will broadcast the new revue produced by Walter Johnston. From the Studio—Charles Kingsley, comedian; Miss Gwladys Fimister, soprano; Walter Hunt in Comedy Plays; Lawrence Halbert, in baritone numbers, and a Cricket Talk.

"LILAC TIME" FROM 2FC.

On Friday, May 14, a Play, by Montague Stuart. A talk from the dressing room by Miss Harriet Bennett, of the "Lilac Time" Company, and the First Act of "Lilac Time" will be broadcast from Her Majesty's Theatre. From the Studio, Mr. Ad Cree, the well-known Scotch Comedian has prepared a surprise for listeners. Other artists will include Mr. Mayo Hunter with

his steel guitar Troupe; Mr. R. M. Baxter, tenor; and Madame Ada Baker's Juveniles will give items during the Children's Session.

MR. OLIVER PEACOCK.

Mr. Peacock, who will be heard from 3LO, is well known all over Australia as a concert singer and theatrical artist, and will broadcast sentimental ballads—such as "God Touched the Rose"—and the better class dance airs, so as to appeal to all radio tastes.

Mr. Peacock is a baritone, has done a lot of broadcasting for 2FC, Sydney, and is said to have an excellent radio voice.

He is a Melbournian and was born in St. Kilda. After some amateur singing he joined Edward Branscombe, and was associated with this well-known director of concert parties for eight years as a baritone singer in "The Troubadors" and "The Dandies."

Afterwards, he joined J. C. Williamson Ltd., and appeared with such well known artists as Vera Pearce, Florence Young, Carrie Moore, and others. With Carrie Moore he will be remembered in the part of Ugo Casaris in "Mr. Manhattan." For two and a half years he was associated with Gladys Moncrieff in "Katinka," and has also appeared in "The Pink Lady," "Maytime," "Theodore & Co.," and other productions.

His last stage appearance in Melbourne was with the Oscar Asche Company in "Cairo" and "Chu Chin Chow."

Recently Mr. Peacock completed a successful concert tour through New Zealand.

CRITICS CONFOUNDED.

For their own benefit listeners-in should take a keen interest in the wireless plebiscite which is being conducted by the Melbourne "Argus," with a view to finding the public taste in broadcasting programmes. The final voting figures cannot help being considered by those who arrange the programmes, but if only a section of the wireless community is submitting its votes a true estimate of the public taste cannot be made. Some of the figures have their humorous aspect. For instance, the discontented minority which occasionally writes to 3LO, Melbourne, and other studios complaining about the infrequency of "jazz," seems to have neglected a vote very frequently, and the occasional gentleman who desires whole reams of sporting results is also without many supporters. Three items consistently head the poll. They are, band music, public concerts, and religious services. All three are given considerable space in 3LO's programmes, so it is rather confounding to the critics who decry the studio's popularity.

SATISFIED CUSTOMERS

are those who have used the famous Lion Micro Permanent Detector. A proof of the popularity of this famous detector is that previous shipments were sold out within a couple of weeks after arrival. Another shipment has arrived per s.s. "Benalla"; we had quite a number on order on the waiting list which has greatly depleted this shipment. If you are desirous of making your Crystal Set a Super Crystal Set order at once to avoid disappointment.

We pay Carriage within N.S.W.

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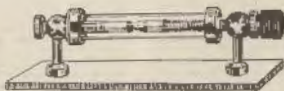


Illustration of Lion Micro Detector (actual size).

THE "LION" MAXTONE DETECTOR.

which employs the same crystal combination fitted in a highly polished aluminite container is also available.

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A.R.114 Junior De Luxe	4	0	0
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A.R.116 Music Master	8	0	0

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A.R.114



A.R.102



A.R.58



Radiolux



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FROM HERE AND THERE

RADIO CONFERENCE.

SOMETHING FOR THE PUBLIC.

At the Radio Conference, held at the Sydney Town Hall, under the presidency of Mr. George A. Taylor, a motion was submitted by Mr. W. A. Hopkins, of the Wireless Institute of Australia, that: "This Conference endeavour to bring about a mutual understanding between the broadcasting Companies of Australia, to close down their stations at 9 p.m. one night in the week, so that the listening-in public may be enabled to enjoy the pleasures of Interstate broadcasting, without interference."

Mr. Hopkins added: "It is to be sincerely hoped that the Broadcasting Companies will agree to the suggestion, because it would mean that the possessor of the most simple single valve receiver would be able, quite easily, to receive the Interstate broadcasting programmes without interference from the stations in his particular city, for at least two hours of one night of each week.

If, for instance the Sydney stations closed down at 9 p.m. on each Monday, Sydneyites would have a silent background that would enable them to enjoy the broadcasting from the other cities. On say, Tuesday night, the Melbourne stations would close down at 9 p.m., when our cousins in Melbourne could then receive Interstate programmes for a couple of hours, with the air of Melbourne silent. On the remaining successive nights of the week, listeners-in at Brisbane, Adelaide, and Hobart would be able to enjoy similar privileges.

The Broadcasting Companies throughout Australia have always shown their desire to assist the public, and we feel sure that the suggestion thrown out by Mr. Hopkins will be carried into effect."

AN UNSATISFACTORY POLICY.

To the listener it would seem that a broadcasting policy which does not provide for the transmission of programmes of high standard is a defective one. It is true, unfortunately, that the number of radio licenses in New Zealand is not great and therefore the annual revenue of the broadcasters is small. Surely, however, this is due to the fact that attractive broadcasts have not been provided and the announcement from IYA on Friday evening that 200 former licensees had not renewed their licenses last week would indicate that the present position is viewed with some distrust.

The writer has always maintained, and is still of the same opinion, that no success will attend broadcasting in New Zealand until the broadcasters make sweeping improvements in the present programmes. It is futile to await a gradual growth in the number of listeners so that initial running expenses will be covered. The only method is to provide immediately a broadcasting service of such a standard as to attract the attention and interest of the public. With the large number of licenses that such a procedure would obtain any initial financial loss by the broadcasting company would be amply covered.

The writer knows of no country where broadcasting is a success in which the preliminary broadcasts were conducted on the lines of those given at present in New Zealand and, while not wishing to appear unduly pessimistic, it must be stated that the history of broadcasting in New Zealand cannot be reviewed without serious misgivings for the future.

("Thermion," in "N.Z. Herald.")

A BOUQUET.

"Well, Mr. Editor, it must be two years since I started to read your valuable paper, 'Wireless Weekly'—so reads a letter from W. Thomas, of Paddington, who writes highly commending the circuit published by "Insulator" in "Wireless Weekly" in September, 1924, under the heading of "A One-Valve Regenerative Set." On this set our friend has received 5CL, 1QG, 3LO, and 3AR at very good strength.

SUNDAY AFTERNOON AT ST. MARK'S, FITZROY, VICTORIA.

The People's Sunday Hour at this church, which was broadcast on Sunday afternoon, May 2, from 3AR Station, will be continued fortnightly with varied programmes under the direction of Rev. R. C. Nichols, the popular vicar. The transmission of this service should be of great interest to the listeners to 3AR who are unable to attend the service.

GERMAN WIRELESS PHOTO TRANSMISSIONS.

A claim to have beaten all speed records in the transmission of wireless photographs is put forward by the Telefunken Company, of Berlin. It is claimed that the Telefunken engineers have succeeded in transmitting 1500 apertures per second in tests conducted between Nauen and America. Text and diagrams have been transmitted simultaneously with pictures.

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

BOOK REVIEW.

One of the most informative and generally useful aids to the radio public in the way of literature, that we have yet seen, is the "Radio Guide and Catalogue," 1926 issue; which is published by Amalgamated Wireless A/sia Ltd., 97 Clarence St., Sydney. Attractively produced, and giving a complete range of information designed for the needs of every radio enthusiast from the crystal user to the experimental transmitter, including a price list of the well known and reliable lines of radio goods handled by the Company, the book should prove invaluable.

The "Radio Guide" primarily deals with broadcasting, and gives a list of all the "A" and "B" class stations operating throughout the Commonwealth as well as a comprehensive map showing the positions of the stations, and a broadcasting stations time schedule.

The Trouble Finding Chart shows the probable places where you may place your finger right on the cause of whatever trouble you experience in the way of weak signals, intermittent signals, or no signals at all, while for reliable instructions for keeping your set fit, you cannot do better than read the article under this title in the "Radio Guide." The two essential conditions for good broadcast reception being a satisfactory aerial and a really good earth, this subject is dealt with in full and gives rather a clear idea of what to do and what to avoid in putting up an aerial to suit your particular conditions and of the rules which must necessarily be followed under the Fire Underwriters' Radio Installation Regulations.

Special instructions for the first charge of the battery, the ideal type of battery for use where no charging facilities are available, and how to connect a number of dry cells together is all described in detail together with explanatory diagrams and the information upon the comparative uses of headphones and loud speakers is comprehensive and highly interesting. Coils to use for Australian broadcast stations, transformers, and valves are given together with valve characteristics, and valve precautions, comprising a list of "Don'ts" for the radio beginner.

A full list of the international Morse code and conventional signals, a list of abbreviations used in radio communication and a list of wireless symbols together with the technical terms used in radio and useful formulae often seen but seldom understood should prove a great help and source of instruction.

A frequency and wavelength table, a list of coast and ship stations, Australian transmitting licensees throughout Australia and New Zealand,

European broadcasting stations, Short Wave transmitting stations and finally a list of wireless publications to be obtained from the Wireless Press, 97 Clarence Street, Sydney, go to make up the entire 104 pages of solid, useful, and essential information which no man with a broadcast receiver should be without.

AUSTRALIAN MADE RADIO GOODS.

A new standard in the production of Australian made radio goods has been set by Electricity Meter Manufacturing Company Ltd., manufacturers of the well known Emeco radio products. This company, possessing one of the most completely equipped factories in Australia, gives constant employment to nearly five hundred Australian workers, whose wages approximate nearly £2,000 per week or £100,000 per annum. The factory, which has a floor space of 36,000 square feet, is located at Camperdown, and in this large building, the famous "Beta" Meters are manufactured under conditions of mass production at the rate of 130,000 per annum, or one meter every seventy seconds "Beta" Meters are supplied in thousands to the Councils of all the capital cities, besides over one hundred electrical undertakings throughout Australia.

Realising the tremendous field for the production of high grade wireless products, the Company early turned its attention to this brand of business, and to date has placed on the market over 40,000 transformers alone.

In addition to this, there is a steady and increasing production of rheostats, straight line frequency and variable condensers, vernier dials, potentiometers, chokes, valve sockets, bakelite coil mounts, etc., and in the near future Emeco Headphones of 4000 ohms will be placed on the market.

AMERICA'S WIRELESS DINNER.

The American passion for doing things on the grand scale has been shown to advantage by the holding of a public banquet in which 20,000 people took part.

In its April number, "Radio News" gives an interesting description of how the inhabitants of sixty-seven cities, sitting down to dinner at the same time, were formed into one vast ensemble through the agency of seven broadcasting stations, viz., WGY, WBZ, WJZ, KDKA, WRC, KFKX and KOA. The diners for the most part were graduates of the Massachusetts Institute of Technology.

In addition to speeches from Washington, Rochester, N.Y., and Cambridge, Mass., the diners were entertained with facsimile letters of greeting transmitted by wireless.

Supertran "Mica Insulated"

Audio Transformers



Supertran 25/- each

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



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Type 51, 30/-

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Ratio, 5 to 1 only

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Around the Traders

THE MACLURCAN TONE PURIFIER.

A new instrument of entirely Australian origin has appeared on the market. Mr. Charles Maclurcan has for some time past been recognised as more or less a crank on the tone and quality of music from radio sets, and the Maclurcan Tone Purifier and Static Reducer is the outcome of much experimental work along these lines.

The device is quite a simple looking affair. It is encased in moulded bakelite, and has one adjusting knob which extends through to the front of the panel. It can be fitted to any radio set, and when connected according to instructions, provides a truly wonderful control of the quality of both music and speech. The tinny, nasal tone, so often heard from some radio sets, will be rendered full and mellow, whilst even tone that is already good will be considerably improved. It also makes it possible to reduce to a great degree, static and other extraneous noises. It may be fitted with equal effectiveness to all amplification circuits, whether transformer, push-pull, choke or resistance coupling is used.

The instrument is manufactured by The Electricity Meter Manufacturing Co Ltd. (Emmco), and is sold with a perpetual guarantee as to faulty operation or workmanship.

BRANDES TABLE TALKER.

The new goose neck design is the result of research in radio acoustics, which definitely establishes its value in relation to the diaphragm fitted. One feature is the patent material used in the



BURGESS—"Over twice the Life"—BATTERIES

construction of the horn which eliminates any suggestion of harshness. It is now possible to control volume and sensitivity with the small lever located at the rear of the base. Elegantly shaped, it still has that tasteful neutral brown finish and felt-padded base. Height, 18 inches. Bell, 10 inches. Agents: International Radio Coy. Ltd.

FORMO PERFECTION TRANSFORMERS.

A new British product handled by Australian Pacific Trading Co., Kembla Buildings, Sydney. This transformer contains 30,000 turns of comparatively heavy gauge, which guards against breakdown. The construction is robust and the wind-



ings are specially treated, rendering the instrument reliable in all climates. The primary terminals are remote from the secondary terminals in order to keep the grid connections away from those of the plate. All terminals are named, and, as an added refinement, their connections are also indicated. Made in two ratios, 1 to 1 and 1 to 3.

CARBORUNDUM CRYSTAL DETECTOR.

Quite new on the Sydney market is the Carborundum Crystal Detector which, it is claimed, has a decided effect upon the selectivity of any crystal or reflex set, sharpening the tuning and cutting down interference. The sensitivity of this detector is not lost even after receiving very strong signals repeatedly, and it is claimed that with reasonable care the detector will remain highly sensitive for years. Every crystal is tested for sensitivity at least three times in the course of selection and assembly and the unit carries a complete guarantee that it will operate satisfactorily in any properly designed circuit. Connections are made very simply with a screw cap each end. The sample submitted to us shows a rugged construction and attractive appearance.

Agents, Eliza Tinsley Pty. Ltd., 484 Kent St., Sydney.

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12 Point Inductance Switches	2	6
Single Jack	1	9
Double Jack	2	0
7-22 Aerial Wire, per 100 feet	3	0
Standard 201A Sockets	1	6
.0005 Straight Line Frequency Low Loss Con- densers	13	6
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A Familiar Sounds Competition in Australia

Australia has just been enjoying its first sounds Competition. This was conducted by the Broadcasting station 3LO, at Melbourne, working on a 371 metre wavelength with a power of 5,000 watts.

The competition was carried out in conjunction with the "Listener-In." The competition lasted for a bare 20 minutes, each of the sounds being repeated once. The prize-money amounted to £19/19/- and within a week, no fewer than 12,300 completed forms were cut out of the weekly and posted from all parts of Australia. The winner, a young married woman, not so very long out from England, placed 17 of the sounds correctly whilst the other prize winners—one of them an inmate of a hospital for incurables—recognised 16 and 15 respectively. First and third winners used valve sets and all the minor prizes were taken by crystal set owners. The hospital inmate described how—all lights being turned off at the hospital at 8.30 p.m. they had to fill in their forms by the light of a smuggled candle end.

If the scope of this competition were translated into terms of English geography the result might surprise some of our readers who are not familiar with the lay out of the Empire. If we imagine the competition taking place at 2LO, London, instead of 3LO, Melbourne, then more than half the entries would have been received from within a radius of 30 miles of the capital and would have included practically all the crystal sets. The majority of the others would have come from an area extending to the middle of Scotland and as far south as say Paris. Northern Europe would have contributed a thousand or two and practically all the European capitals would have entered. Geneva (450 miles), would have sent a number. Vienna, Stockholm, Madrid and Rome would have been well represented, whilst Gibraltar (1100), and even Bagdad (1500), would have supplied a stray entry form or two if their communication had been fast enough. Quite a large area of Queensland and Western Australia, by the way, could only have taken a share in such a competition by means of their aeroplane services which are the first in the world.

The following 20 simple sounds were broadcast:

1. Using a typewriter.
2. Ringing a telephone bell.
3. Footsteps on board floor.
4. Sawing wood.
5. Breaking sticks.

6. Ripping cloth.
7. Winding up a clock.
8. Folding paper.
9. Driving a nail.
10. Brushing clothes.
11. Cracking nuts.
12. Using a telegraph buzzer.
13. Setting table for four.
14. Sharpening knife on steel.
15. Working a sprayer pump.
16. Ticking of a clock.
17. Lighting a cigarette.
18. Snipping pair of scissors.
19. Breaking and beating egg.
20. Unscrewing glass jar.

The whole of the sounds were "created" by the studio manager, who first collected all the impedimenta in the sound-proof room. Each item was announced, performed, and then repeated once. What Mr. Bearup, the manager did was to write a sentence on the typewriter, ring the telephone, walk slowly down a boarded floor, saw through a three-inch board, break half a dozen sticks, tear up a piece of calico, wind up an alarm clock, noisily fold up a large sheet of brown paper, pick up a hammer and drive a nail into a plank, brush the announcer's coat as if he had been in a duststorm, crack half a dozen walnuts, work the key of a telegraph buzzer, place four plates, cups and saucers on a bare table with all the solicitude of a boarding-house domestic, and rattle four spoons into the saucers, sharpen the carving knife, then work a spray pump vigorously, hold up a ticking clock, take out a cigarette, snap the case, shut and tap the cigarette on its lid, strike a wax match and light it; next break an egg on the edge of a basin and beat it up with a fork, finally unscrew the tin lid from a glass jar and screw it on again.

In reviewing the great mass of entry forms received it would appear that comparatively few of the sounds could be recognised with absolute certainty, and many of them were open to an extraordinary variety of interpretation. Many of the competitors seemed to think that microphones were situated at all points of the compass and that the studio itself had been turned into a cross between a farmyard and a blacksmith's shop. The innocent folding of a sheet of brown paper was recorded as "railway trucks being shunted," "objects dropped from a high building," "a bag of bottles shaken up," "ploughing with a steam

plough," "stacking timber," "crushing up dry bread crumbs," and "clapping of hands in the distance."

The easiest sounds to detect were the typewriter, though "machine gun firing," "stampers," and "a baby's rattle," were suggested, the winding and the ticking of the clock, the sawing of wood and the driving of the nail ("pounding the tram lines with a hammer" one man exaggerated this into). The least like the actual sounds when reproduced were the snipping of a pair of scissors (scarcely a dozen of the 12,000 guessed this) and the brushing of the clothes, which sounded exactly like sandpapering. Even the screwing and unscrewing of the tin lid of a glass jar was detected by a great many competitors though there was some excuse for the man who wrote "surely this was a pig grunting," if not for the exasperated competitor who answered "announcer being violently ill." The announcer by the way was freely accused of "kissing the typist" when the knife was being sharpened, the paper being folded, and the spray pump being worked. Curiously enough, the ringing of the telephone, which was thrown in as one of the easy ones, proved almost a "dud" for the speed killed all vibration and instead of a musical ringing sound there was nothing but a "swishing" noise that some people interpreted as "wind escaping from a tyre," others as "a blowing noise," whilst hundreds heard nothing at all. One wag cried "noise made by an angry man at a picture show with two women talking behind him."

Altogether the competition was so successful that others are to follow.

One feature of the competition worth mentioning is that during the following week the Sounds were repeated as an item in the studio programme in order that the competitors might hear "listen with understanding minds," and wonder why they had not detected them before.

AN APOLOGY.

On page 15, "Wireless Weekly," April 30th, in the left hand column, we published a photograph with an inscription, "Roger Jones, a favourite from 2BL."

We hasten to point out that this photograph was one of Mr. Alfred Cunningham, the famous baritone.

We trust that both Mr. Cunningham and Mr. Jones will accept our apologies for this unintentional slip.

FOR SALE.—Three "BK" Exide B Batteries, 94 Volts, in Oak Case, £4. Very efficient Wave-trap, £2. 7 Etham Ave., Darling Point. Tel.: FFM 1880.



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MORE RADIO

THE BRISBANE STATION.

For New South Wales Listeners.

As regards broadcasting conditions, Australia has very little to grumble about by comparison with other countries. We have, in addition to some excellent B class stations, seven A class broadcasting stations in all, last, but not least, of which comes the New Queensland station, 4QG.

This is of particular interest to residents all over N.S.W., as 4QG can be heard clearly by anyone who owns a good valve set.

This station was primarily designed to cater for the wireless public of Queensland, who had formerly to rely upon the Interstate stations for their entertainment.

The reports which have been received testify to the efficiency of 4QG. The management has been inundated with telegraphic and cable reports from all over Australia, Tasmania, and New Zealand regarding the reception. The first report arrived in the form of a radiograph from Samarai, New Guinea, and read: "Congratulations; maximum strength here." This message was quickly followed by others. Burnie (Tasmania), reported reception at unbearable strength, and after that came a message from Charters Towers, stating that loud speaker results were being secured with two valves, and that, using four, the volume was terrific. Judging by the comments which have been made, the station was received with great strength in and around Brisbane, crystal set owners being those who noticed the increase most particularly.

A message from a humorist at St. Kilda, Melbourne, read: "Please replace my loud speaker, wrecked by your tornado, or I shall sue for damages." And another broadcast listener in South Yarra wired: "Heard you on three valves at loud speaker strength. Wonderful results." An enthusiast in Melbourne actually reported reception on his crystal set, and stated that the transmission came through perfectly, and a second report of a similar nature came from Bendigo, Victoria. From all over N.S.W. reception was excellent on one, two, three and four valves.

The sum total of the appearance of 4QG with its increased power is that radio listeners in N.S.W. have another station added to their "repertoire" of entertainment, 2FC and 2BL, Sydney, 3LO, Melbourne, and now 4QG, Brisbane — in addition possibly to Adelaide and Perth.

NEW SPANISH STATION.

A new medium power station has been erected at Barcelona, in Spain. This station is located in Tibidado, which has a commanding view over the town. By reason of the fact that it is clear of all buildings it is hoped that this station will serve a large number of listeners. The call letters of the station are EAJ1 and the wavelength on which it will operate is 325 metres.

EUROPEAN INTERFERENCE.

Owing to the interference in European countries caused by the clashing of wavelengths the Radio Bureau at Geneva recently instituted a number of important tests. As a result of these tests it is expected that a number of the European broadcasting stations will revise their wavelengths. The scheme of alterations was submitted to the International Broadcasting Conference, held at Geneva on March 25.



The

RAPINET

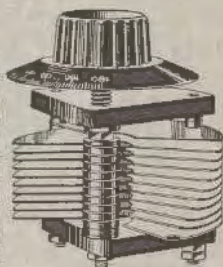
Batteryless Fault-Finder

THIS indispensable scientific instrument indicates instantaneously, without the aid of a Battery, whether your connections on the circuit are good or defective; whether you have a short or a break. Its uses for Electrical purposes are innumerable. Price, 3/6 each. Unstintingly praised by leading Wireless Authorities.

The RAPINET CONDENSER

This Masterpiece Square Law Self Vernier Condenser can be used for all capacities by increasing or decreasing the Airgap by the rotating centre spindle. When dial is turned the moving plates not only move in and out the fixed plates, but also form a micro-adjustment by the action of the axle moving up and down the centre spindle.

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Noted for its remarkable reproduction of its local value and exclusive Non-Serata features. A gem of workmanship in a handsome highly polished cabinet.
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OFFER NO. 2

VALVE WIRELESS

SET on an exclusive unit system. This set is built in a handsome foundation cabinet and has a valve set with headphones and a loud speaker permanently built in. Applicable to all classes of reception. Extra valves can be added to a full strength 4 valve set without reconstruction.

£1 down secures immediate delivery
Balance 5/- weekly



OFFER NO. 3

Pathé Home Cinema at £18-18-0 or a Perfect Pathé Cinema Camera at £12-12-0, enabling you to photograph your friends in living pictures that become permanent records. Show these with a programme of Pathé Educational, Dramatic and Comic films in your own home. Thousands of films to select from which can be screened up to 3 ft x 6 ft.
£1 down secures immediate delivery Balance 5/- weekly.



OFFER NO. 4

Heuron & Smith's Lift-on Billiard Table. Complete for the game of Billiards with cues, balls and marking board.
£1 down secures immediate delivery Balance 5/- weekly

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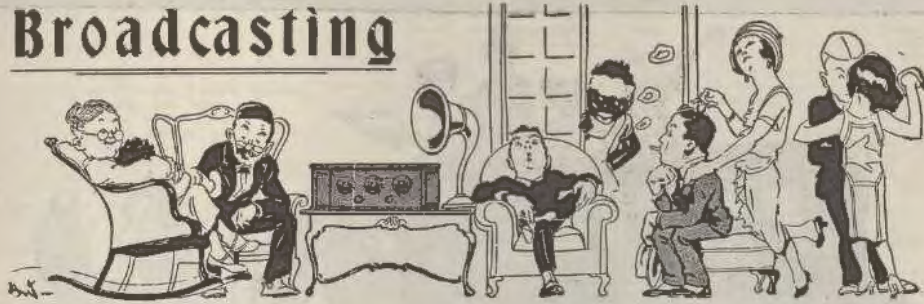
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FRIDAY, MAY 14.
Afternoon Session.

- 10.55—Special 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; A talk on English Poetry by Mr. J. M. Prentice.
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. Ramon.
4.45—Music from the Studio.
5—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.O. Clock and Chimes; Sporting Resume from the Sun Newspapers; The pupils of Miss Monica 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—Cec. Morrison and his Gloomchasers, providing dance music. Mr. Cec. Morrison will play on the piano any jazz number requested by telephone and the request and response will be broadcast. Miss Nora Hill, Irish Soprano, will be heard in songs of Erin. Senior Sporting Expert of "The Sun" will deal with racing form and tips. Travelogue by Mr. J. M. Prentice entitled, Luxor and the Nile. The dance programme will be provided until 11.10 by Cec. Morrison and his Gloomchasers.

SATURDAY, MAY 15.
Afternoon Session.

- 2—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from Sun Office.
5.15—G.P.O. Clock and Chimes; Close down.
Early Evening Session.
8—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.
8.30—Sporting Resume from Sun Newspapers; Uncle Jack and the Kiddies.
7—A Talk to the Kiddies by "Brin-ga."
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

Evening Session.

- 8—Madame Vera Tasma, the distinguished soprano, "The Harmonists" in an unaccompanied

vocal quartette. Mr. Fred R. Gooch in humor at the piano introducing his interesting descriptions of the "Adventures of Jimmy." Hoyt's imperial Orchestra playing from the Theatre De Luxe will provide incidental music, and the Ahad Duo will present items played on steel guitars. The Dangowan Cabaret at Manly will provide dance music to conclude the evening.

SUNDAY, MAY 16.

- 10.55—Children's Service broadcast from Newtown Congregational Church, directed by Rev. Mearns Mase.
3.30—Bible Class, conducted by Mr. W. "Calu" Bradley; soloists, Messrs Arthur Smith and Will White, Jr.
4—Manly Municipal Military Band, broadcast from Ocean Beach.
6.30—Musical Recital—Orchestral and vocal—from the Newtown Congregational Church.
7—Church Service, conducted by Rev. Mearns Mase, of Newtown Congregational Church.
8.30—Concert from Studio, featuring Broadcasters' Instrumental Trio, under the direction of Mr. Horace Keats; Mr. Alfred Cunningham, the English baritone.

MONDAY, MAY 17.

Afternoon Session.

- 10.55—Special Cricket Session with Music from the Studio.
3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
3.15—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. Ramon.
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—"Whar'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 Ambassadors Instrumental Salon Quartette, under the direction of Mr. Claude McClynn. Mr. Robert Harper, tenor; Newtown Band, broadcast from Industrial Hall, Newtown; Miss Nellie Hayes, soprano.

TUESDAY, MAY 18.

Afternoon Session.

- 10.55—Special 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. Ramon.
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—Mr. Raymond Beatty, basso cantante and Miss Millie Hughes, soprano, in solos and duets; Mr. Alfred Cunningham, baritone and Miss Nora Hill, soprano.

WEDNESDAY, MAY 19.

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. Ramon.
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.

- From the Studio: Miss Heather Kincaid, contralto; Norman Wright, tenor; City of Syd-

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ney Band, broadcast from Barlow Chambers. Foreign Affairs Talk, by Mr. J. M. Prentice.

THURSDAY, MAY 20.

Afternoon Session.

- 3—G.P.O. Clock and Chimes; Weather Reports and Social Notes from The Sun.
- 3.15—David Jones' Tea Room Trio.
- 3.30—G.P.O. Clock and Chimes;
- 3.45—Music from the Studio.
- 4—G.P.O. Clock and Chimes; David Jones Tea Room Trio.
- 4.45—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.
- 7.30—Close down.

Evening Session.

Popular Concert from the Studio, featuring Raymond Beatty, bass; cantata, Millie Hughes, soprano; Waikiki Troubadours, Mr. Fraser Anderson, will speak on Astrobiological Aids to Characters; Dr. Donald Luker on Japan—Moods and Reactions.

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QUEENSLAND RADIO SERVICE.

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FRIDAY, MAY 14.

Midday Session.

- 12.55—"Tune-in" Signal.
- 1—Market Reports supplied by the Council of Agriculture; Stock Exchange Information supplied by the Committee of the Brisbane Stock Exchange; Weather Information supplied by the Commonwealth Weather Bureau; "Daily Standard" News Service; Close down.
- 3.30—Duo Art Selection—waltz medley; soprano solo; Mrs. T. Thornton; Aeolian Vocation selection—Band Number; contralto solo; Miss Winifred Anderson; monologue; Mabel Cornuck; soprano solo; Mrs. T. Thornton; Aeolian Vocation selection—Band Number; contralto solo; Miss Winifred Anderson; Duo Art Selection.
- 7—"The Farmers' Session; Market Reports; Lecturette: A talk to Fruit Growers, by Mr. J. J. Thomas (Chairman of Committee of Direction).

Night Session.

- 7.45—Lecture Session—A Workers' Educational Association Talk.
- 8—The Federal Band—Lyric Glee Party—Savoy Orchestra.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—Overture, The Savoy Orchestra; Part Song, The Lyric Glee Party; Orchestra The Savoy Orchestra; Duet, Messrs. Melville and Cornwell; fox trots, The Savoy Orchestra; contralto solo, Mrs. A. F. Stoddart; Humorous Interlude, The Lyric Mixed Quartette; acclamation, The Savoy Orchestra; baritone solo, Mr. E. G. Bellgrove; male quartette, The Lyric Quartette; march; The Savoy Orchestra; baritone solo, Mr. E. G. Bellgrove; initiation, The Lyric Glee Party.
- 10.30—Close down.

SATURDAY, MAY 15.

No Midday Transmission.

The Children's Hour.

A Children's Bedtime Story Session is held each Monday, Wednesday, and Saturday

evening. At a later date this session will be made a nightly feature, but in the immediate present, while transmission is being effected under temporary conditions, it is held three times weekly.

- 6.25—"Tune-in" Signal.
- 6.30—"The Children's 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, vocal duo, Mrs. Robt. Bell and Miss Ruth Portrate, tenor solo, Mr. E. Ungerer; pianoforte solo; contralto solo, Miss Vera Parker; vocal duet, Mrs. Robt. Bell and Miss Vera Parker; contralto solo, Miss Vera Parker; vocal duet, Mr. J. Morgan and Mr. E. Ungerer. Evening of the Muses. The second portion of the programme will be both classical and novel. It will be broadcast from "The Hall of the Muses" (the studio of Mr. Luis Amadeo Parca, Little Rains Street). The evening will comprise a recital typifying the various muses, and each artist or group of artists will represent one or more of the muses.

SUNDAY, MAY 16.

Morning Session.

- The complete morning service will be relayed from St. Andrew's Presbyterian Church.
- 10.55—"Tune-in."
- 11—Morning Service.
- 12.15—Close down.

Afternoon Session.

- The Band Concert provided in the Botanical Gardens will be broadcast.
- 3.10—"Tune-in."
- 3.15—Band Concert.
- 4.30—Close down.

Night Session.

- The complete evening service will be relayed from St. Andrew's Presbyterian Church.
- 7—Evening Service.
- 8.00—Benediction.

Band Concert.

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

- 8.30—Band Concert.
- 9.30—Close down.

MONDAY, MAY 17.

Market Reports.

- 1.30—Close down.
- 3.25—"Tune-in."
- 3.30—From the Tivoli Theatre—By courtesy of the Directors of Havermark Theatres Ltd., music by the Tivoli Operatic Orchestra will be relayed.
- 3.45—From the Studio—Soprano solo, Miss Olga Harris.
- 3.55—From the Tivoli Theatre — The Tivoli Orchestra.
- 4.10—From the Studio—contralto solos, Miss Vera Parker.
- 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, Breeds of Pigs for Queensland Pig Farms, by Mr. E. J. Shelton (Instructor in Raising).
- 7.30—News Service supplied by "The Telegraph."
- 7.30—Close down.

Night Session.

- 7.45—Lecture Session—Motors, Correct Lubrication Talk No. 5, by "Gargyle."
- 8—Studio Concert—South Brisbane Orchestra.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—Baritone solo, Mr. Les. Faulkner; Hawaiian Instrumentalists, The Kalua Trio; contralto solo, Mrs. Charles Willey; pianoforte solo, Miss Rae Phillips; baritone solo, Mr. D. K. Symes; soprano solo, Miss Lilian Brown.
- 10—"The Daily Mail" News Service; National Anthem by 4QG Artists. Close down.

TUESDAY, MAY 18.

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—Overture, The Savoy Orchestra; soprano solo, Miss Victor Down; waltz, The Savoy Orchestra; lullaby solo, Mr. Stanley Tamblin; selection, The Savoy Orchestra; fox trots, The Savoy Orchestra; soprano solo, Miss Victoria Down; Air de Ballet, The Savoy Orchestra; Bass solo, Mr. Stanley Tamblin; 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: What does it cost to run a Tractor, by Mr. J. K. Murray (Principal, Queensland Agricultural High School and College).
- 7.20—"The Telegraph" News.
- 7.30—Close down.

Night Session.

- 7.45—Lecture Session—Photography, by Mr. F. L. South (Manager, Kodak Ltd.).
- 8—Brisbane Apollo Club, Choral Number, The Brisbane Apollo Club; mezzo soprano solo, Miss Mabel Parker; choral number, The Brisbane Apollo Club; instrumental duet, Mr. P. Deighton (bass baritone), and Mr. A. Clarke (sophonium); choral number, The Brisbane Apollo Club, mezzo soprano solo, Miss R. G. Husband; vocal duet—Miss Ruth Portrate and Mr. W. Spargo; radio novelty, mezzo soprano solo, Miss Mabel Parker; violin solo, Mr. H. Scott MacCallum.
- 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.
- 8.55—Announcements.
- 9—Vocal duet, selected, Miss Ruth Portrate and Mr. W. Spargo; mezzo soprano solo, Miss R. G. Husband; instrumental duet, Mr. P. Deighton (bass baritone), and Mr. A. Clarke (sophonium).
- 9.15—From the Centennial Hall—By courtesy of the lessee, a programme of dance music by the Centennial Hall Orchestra will be relayed from the Hall.
- 9.55—"The Daily Mail" News Service.
- 10—Close down.

WEDNESDAY, MAY 19

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—From the Studio—Duo Art Selection; soprano solo, Mrs. R. G. Allen, Aeolian Vocation selection; Duo Art Selection; so-

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primo solo; Mrs. R. G. Allen Acollan selection, played by the Ferrara Hawaiian Duo; Duo Art Selection, bass solo, Mr. Malcolm McEcherz.

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; Lecture: The Growth of Co-operation in Queensland, by M. J. Harcourt (Chairman Mixed Farming Industries Board).
7.25—"The Telegraph" News.
7.30—Close down.

Night Session.

7.45—Lecture Session—Tourist Talk.
8—A Classical Programme, arranged by Miss Louise Richter, supported by the Savoy Orchestra (conductor, Mr. A. R. Featherstone).
8.30—Weather information officially supplied by the Commonwealth Weather Bureau.
8.55—Announcements.
9—A Classical Programme, arranged by Miss Louise Richter, supported by the Savoy Orchestra (conductor, Mr. A. R. Featherstone).
10—The Daily Mail News Service; Close down.

THURSDAY, MAY 20.

Middy Session.

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

Afternoon Session.

1.45—Tune-in.
1.50—Duo Art Selection; soprano solo, Miss Victoria Down; Acollan Vocalion Selection—Band Number; contralto solo, Miss Winifred Anderson; Duo Art Selection, soprano solo, Miss Victoria Down; Acollan Selection—Orchestra; contralto solo, Miss Winifred Anderson, Duo Art Selection; A waltz medley.
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; Lecture, Marketing, by Mr. L. R. McGregor, Director, O.P.A.
7.25—"The Telegraph" News.
7.30—Close down.

Night Session.

7.45—Lecture Session—A Talk on Books by Mr. W. A. Braine (McLeod's Bookstore).
8—The Lyric Male Quartette.
8.50—Weather information officially supplied by the Commonwealth Weather Bureau.
8.55—Announcements.
9—From the Band Room: An impromptu programme of music by the Greater Brisbane Municipal Concert Band, under the leadership of Mr. E. Jackson
10—The Daily Mail News Service. Close down.

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FRIDAY, MAY 14.

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

11.30—G.P.O. Chimes.
11.31—Featuring a Steak Duo Art number.
11.40—"Advertiser" News Service.
12—G.P.O. Chimes.
12.1—News and Cable Service.
12.16—Featuring a Steak Duo Art number; The 5CL Studio Orchestra Selection; cornet solo; two Triang dances; Morceau; novelette; waltz; allegro moderato from unfinished symphony; fox trot; 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 Mr. Richards (Bind Institute).
9—G.P.O. Chimes.
9.1—Weather Reports.
9.3—Studio Concert—continued.
10.1—Studio Concert—continued.
10.15 approx.—Advertiser News Service.
10.30—Station Announcements; National Anthem.

SATURDAY, MAY 15.

10.30—G.P.O. Chimes.
10.31—The 5CL Studio Orchestra will play: Overture; violin solo; fox trot; madrigals; instrumental trio; dance passion; cornet solo; oriental; waltz lento; finale.
Sporting Results when available.
Steak 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—Studio Concert arranged by Mrs. Hubert James.
8.45—Fox II Lecture.
9—G.P.O. Chimes.
9.1—Weather Reports.
10.21—"Advertiser" News Service.
10.30—Station Announcements; National Anthem.

SUNDAY, MAY 16.

Morning Session:

11—Broadcast from Flinders Baptist Church. Sermon by Rev. F. G. Benskin, M.A.

Afternoon Session.

3—Relay from Exhibition Building — Mission Service of Gipsy Smith.

Evening Session:

6.30—G.P.O. Chimes.
6.31—Bedtime Stories for the Children.
7—Relay from Exhibition Building — Mission Service of Gipsy Smith.
8.30—Mr. P. H. Nicholls will lecture on Spiritual Healing. International Bible Students' Association. Station announcements. National Anthem.

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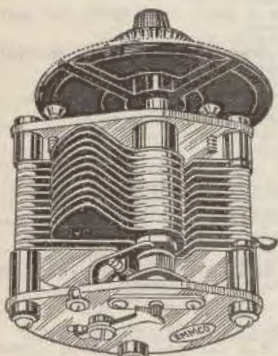
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Manufactured by

Electricity Meter Manufacturing Company Limited, Sydney

MONDAY, MAY 17.

- 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; cornet solo; fox trot; instrumental trio; waltz; selection; novelette; reverie; finale.
 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.
 2—G.P.O. Chimes.
- Afternoon Session. (3 to 5).
- 3—G.P.O. Chimes.
 3.1—Relay from Maple Leaf Cafe; Orchestral numbers.
 3.45—Broadcast from Studio; Serial Story.
 4—G.P.O. Chimes.
 4.1—Broadcast from Arcadia Cafe; Orchestral numbers.
 4.55—Stock Exchange Reports, General Information and Station Announcements.
 5—G.P.O. Chimes.
- Evening Session (6.30 to 10.30).
- 6.30—G.P.O. Chimes.
 6.31—Bedtime Stories for the Children.
 6—G.P.O. Chimes.
 6.1—Studio Concert, arranged by Southern Suburban Radio Club.
 6.20—Twinkler's Original Humorous Talk (Mr. F. J. Mills).
 6—G.P.O. Chimes.
 6.1—Weather Reports.
 6.10—Talk on Photography, arranged by Harringtons, Limited.
 6—G.P.O. Chimes.
 10.45—Station Announcements; To-morrow's Programme; National Anthem.

TUESDAY, MAY 18.

- 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; cornet solo; fox trot; march; novelette; suite; waltz; oriental; finale; selection.
 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—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.
 8—G.P.O. Chimes.
 8.1—Studio Concert arranged by Madame Bernstein.
 8.30—Cookery Talk arranged by S.A. Gas Co.

- 8.30—Studio Concert.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 9.3—Studio Concert.
 10—G.P.O. Chimes.
 10.1—Studio Concert.
 10.36—"Advertiser" News Service.
 10.50—Station Announcements; National Anthem.

WEDNESDAY, MAY 19.

- Morning Session (11.30 a.m. to 2 p.m.)
- 11.30—G.P.O. Chimes.
 11.31—Steek Duo Art and Aeolian Vocalion Recitals.
 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; cello solo; fox trot; reverie; waltz; oriental; selection; instrumental trio; 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—Capek Lecture, Ven. Archdeacon Moyes.
 8—G.P.O. Chimes.
 8.1—Studio Concert, arranged by Miss Sylvia Thomas, L.M.A.A., A.M.U.A., L.A.B.
 8.30—Science Lecture arranged by Messrs. F. H. Faulding & Co.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 10.30—From the Studio, Musical Numbers.
 10.40—Station Announcements; National Anthem.

THURSDAY, MAY 20.

- 11.30—G.P.O. Chimes.
 11.31—Featuring a Steek Duo Art number.
 11.40—"Advertiser" News Service.
 11.55—Vocalion Number.
 12—G.P.O. Chimes.
 12.1—"Advertiser" News Service.
 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Overture, violin solo; fox trot; reverie; Shepherd's Dance, from "Henry VIII"; waltz; selection; cornet solo, 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.

- 6.31—Bedtime Stories.
 7.15—Health Talk, given by School for Mothers, arranged by Mr. A. M. Whittenbury.
 7.30—Market Reports.
 7.40—Poultry Talk by Mr. A. M. Whittenbury.
 8—G.P.O. Chimes.
 8.1—Nonsense Night in three oscillations, with a few bursts of static.
 Approx.
 10.15—"Advertiser" News Service.
 10.30—Station Announcements; National Anthem.

2KY

WEEKLY BROADCASTING PROGRAMME. TRADES HALL.

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FRIDAY, MAY 14.

- 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 Esme Ditch, L.L.C.M.; Miss Majestic Carroll, soprano; Mr. Alf James, baritone; Mr. Beard, technical designer of 2KY, Wireless Lecturette; Labor Research Bureau, political & industrial topics; Miss Ivy O'Neill, contralto; Mr. J. Fahey, tenor; Mr. David Edelman, monologues; Andro addison's String Orchestra.

SATURDAY, MAY 15.

- 7.30—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; Nelle O'Sullivan, dramatic scenes; Mr. W. Masters, banjo solos.

MONDAY, MAY 17.

- 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 Russell, entertainer; Miss D. Johnstone, soprano; Mr. W. Strain, tenor; Lecturette, Local Topics, Mr. J. S. Garden; Mr. Beard, Technical designer of 2KY, Wireless Lecturette; Mr. J. Gray, baritone; Miss Nelle Graves, soprano.

TUESDAY, MAY 18.

- 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 Dorrington, soprano; Lecturette, Organic Evolution, Mr. Geo. F. Mammel; Miss Zara Nilsson, soprano; Lecturette, Fighting Cancer Series, Mr. H. V. Markham; Flute Solos, Mr. Les. Sproules; Mr. McDougall, Hawaiian steel guitar; Mr. David Lloyd, pianist; Mr. A. Jamieson, tenor.

WEDNESDAY, MAY 19.

- 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 Eileen Charles, soprano; Miss Dean, pianist; Lecturette, International Topics, Industrial and Political, Mr. J. S. Garden; Mr. R. Webster, baritone; Mr. Percy Brown, monologues; Mr. Sullivan, tenor; Miss Thompson, soprano; Lecturette, Health Topics; Miss Lily Wallace, whistler; Lecturette, subject to be announced, Rt. Rev. G. S. Arundale.

PHILCO—"Tremendous Capacity"—BATTERIES

THURSDAY, MAY 20.

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 Butlerworth, soprano; Mr. W. Thom, tenor.

3AR

Wavelength, 484 metres. Power, 1000 watts.

SATURDAY, MAY 15.

Morning Session.
 11.30—The British Official Government Press, received by 3AR's operator from Rugby Super Wireless Station, England; The Age News Bulletin.
 12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.
 12.5—Musical Selections, relayed from Hoyt's De Luxe, Bourke Street.
 12.30—Stock Exchange News; Foreign Exchange, supplied by Messrs. Thos. Cook & Son.
 12.35—Market Reports.
 12.40—Selections from Hoyt's De Luxe, Bourke Street.
 12.55—Mail Notices; Shipping Movements.
 1—Close down.

Afternoon Session.

Sandown Park Races, Results also at half-hourly intervals.
 2.30—Result of Trial Welter, 1 mile.
 2.35—Hoyt's Premier Orchestra under the leadership of Miss Ella Brien, relayed from Hoyt's De Luxe, Bourke St.
 3—Result of the Brush Steeplechase, 2 1/2 miles.
 3.5—Hoyt's Premier Orchestra.
 3.30—Result of Sandown Plate, 6 fms.
 3.35—Hoyt's Premier Orchestra.
 4—Time Signal Chime from the tower of the G.P.O., Elizabeth St. Studio barometer and thermometer readings.
 Result of the Sandown Park Handicap, 1 1/4 miles.
 4.5—Hoyt's Premier Orchestra.
 4.30—Result of Sandown Purse, 5 fms.
 4.35—Hoyt's Premier Orchestra.
 4.55—The Evening Amusement Guide.
 5—Time Signal Chime from the G.P.O., Elizabeth St. Studio barometer and thermometer readings.
 5.1—Result of Jumpers' Flat Race.
 5.5—Close down.

Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Peter. (1) The Bedtime Story. (2) Talk on Hobbies.

Evening Session.

8—Time Signal Chime from the G.P.O., Elizabeth Street. Studio barometer and thermometer readings.
 8.1—Sporting Results; Local News.
 8.15—Dance Night. The Rhythmic Dance Orchestra under the direction of Mr. George Lewis, relayed from the Maison De Luxe, Broadway, St. Kilda.
 9.30—Week-End Traveller's Information: Supplied by the Victorian Railway's Department and Tramways Board.
 9.50—The Maison De Luxe Dance Orchestra.
 10—Time Signal Chime from the G.P.O., Elizabeth St. Studio barometer and thermometer readings.
 10.5—The Maison De Luxe Rhythmic Dance Orchestra.
 11—National Anthem and Close down.

SUNDAY, MAY 16.

Morning Session.
 10.30—The Bells from St. James Old Cathedral.

11—Service from the Independent Church, Collins Street; Preacher, Rev. J. Ernest James, B.D.

Afternoon Session.

3—Transmission from St. Mark's Church, Fitzroy.

Evening Session.

6.30—The Bells from St. James Old Cathedral.
 7—Service from the Collins Street Independent Church, Preacher, Rev. George H. Gunnson.
 8.30—Miss A. M. Kuring (piano solo).
 8.35—Mr. R. Gordonov (baritone).
 8.42—Mrs. V. J. Plumb (contralto).
 8.50—Mr. Lal Kuring (cello solo).
 8.53—Miss A. M. Kuring (mezzo soprano).
 9.2—Mr. G. Yorke Ray, Literary Talk.
 9.13—Miss Gladys Burwood (contralto).
 9.22—Mr. Lal Kuring (cello solo).
 9.26—Miss A. M. Kuring and Mr. R. Gordonov (vocal duets).
 9.30—The Eclipse Grand Orchestra, relayed from the Eclipse Theatre, Port Melbourne.
 9.50—The 'Age' News Bulletin, exclusive to 3AR.
 9.55—National Anthem and close down.

MONDAY, MAY 17.

Morning Session.

11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin.
 12—Time Signal, Chimes from the tower of the Weather Forecast; Events of the Day.
 12.5—Musical Selections from Hoyt's De Luxe, relayed from Bourke Street.
 12.30—Stock Exchange News.
 12.35—Market Reports.
 12.40—Musical Selections.
 12.55—Mail Notices; Shipping News.
 1—Close down.

Afternoon Session.

Assoc Pony Races.

Results immediately after each race and at half-hourly intervals.
 2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from Hoyt's De Luxe, Bourke Street.
 3—Mr. Claude Keffe will give Piano-Player Interpretations.
 3.15—The 'Graphic' News.
 4—Time Signal Chime from the tower of the G.P.O. 2nd Weather Forecast.
 4.5—Hoyt's Premier Orchestra, relayed from the De Luxe, Bourke Street.
 4.55—The Evening Amusement Guide.
 5—Time Signal Chime from the G.P.O., Elizabeth St. Studio barometer and thermometer readings. Close down.

Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Red. 1, The Bedtime Story; 2, Talk on Hobbies.
 8—Time Signal chimes from the tower of the G.P.O., Elizabeth St. Studio Barometer and thermometer readings.
 8.1—Piano Soli, played on the Cable Electric 8.15—Madame Syria Lamonte (soprano).
 8.20—Melogram Phonograph selection (violin solo).
 8.25—Melogram Phonograph Selections, sung by the Don Gussacks Choir.
 8.37—Humorous Sketches by Will Evans.
 8.44—Piano solos played on the Cable Electric Grand.
 8.52—Male Chorus.
 8.58—Melogram and Phonograph.
 9.6—Madame Syria Lamonte (soprano).
 9.13—Piano solos, played on the Cable Electric Grand.
 9.23—Humorous Items by Harry Tate & Co.
 9.31—Melogram Phonograph selections sung by Chalipien.
 9.42—Melogram Phonograph Selections duet by Caruso and Melba.

9.46—Soprano solos, sung by Rosa Punelle.
 9.58—Piano solos, played on the Cable Electric Grand.
 10—Time Signal chimes from the tower of the General Post Office.
 10.1—The Age News Bulletin, exclusive to 3AR.
 10.10—Hoyt's Premier Orchestra, relayed from Hoyt's De Luxe, Bourke Street.
 10.40 Approx.—National Anthem.

TUESDAY, MAY 18.

Morning Session.

11.30—The British Government Wireless Press, received by 3AR's operator, from Rugby Super Station, England; The Age News Bulletin.
 12—Time Signal, Chimes from the tower of the G.P.O., Elizabeth St. Studio barometer and thermometer readings. 1st Weather Forecast. Events of the Day.
 12.30—Stock Exchange News.
 12.35—Market Reports.
 12.40—Selections from Hoyt's De Luxe, relayed from Bourke Street.
 12.55—Mail Notices; Shipping Movements.
 1—Close down.

Afternoon Session.

Warrnambool Races.

Results also at half-hourly intervals.
 1—Result of Trial Hurdle.
 1.55—Result of Trial Handicap.
 2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from Hoyt's De Luxe, Bourke Street.
 2.45—Result of Brierly Steeple.
 2.50—Hoyt's Premier Orchestra.
 3.30—Result of Wangeon Handicap.
 3.45—Graphic News.
 4—Time Signal Chime from the G.P.O., Elizabeth St. Studio barometer and thermometer readings. 2nd Weather Forecast.
 4.5—Hoyt's Premier Orchestra, relayed from Hoyt's Theatre.
 4.55—Result of Nerri Hurdle.
 4.58—The Evening Amusement Guide.
 4.57—Result of Tozer Welter.
 5—Time Signal Chime from the tower of the General Post Office.

Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Peter. (1) The Bedtime Story. (2) Talk on Hobbies. St. Vincent De Paul's Boys Band, relayed from South Melbourne, until 8 o'clock.
 8—Time Signal chimes from the tower of the General Post Office.
 8.22—Miss Elsie Mitchell (soprano).
 8.29—Mr. Jack Muiries (operatic baritone).
 8.36—Miss Jean Jamieson (elocutionist).
 8.43—The DeLung String Quartette.
 8.57—Miss Elma Suberland (cello solo).
 9.11—Mr. Jack Huiter (operatic baritone).
 9.11—Miss Leab Harris (soprano).
 9.18—Miss Meg. Stewardson (violin solo).
 9.25—Miss Jean Jamieson (elocutionist).
 9.32—Miss Elma Suberland (cello solo).
 9.39—Miss Isabel Harris (soprano).
 9.46—The DeLung String Quartette.
 10—Time Signal chimes from the tower of the General Post Office, Melbourne.
 10.1—The Age News Bulletin, exclusive to 3AR.
 10.10—Hoyt's Premier Orchestra, relayed from Hoyt's De Luxe, Bourke Street.
 10.40 Approx.—National Anthem.

WEDNESDAY, MAY 19.

Morning Session.

11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin.
 12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.
 12.5—Musical Selections from Hoyt's De Luxe, Bourke Street.

- 12.30—Stock Exchange News.
12.35—Market Reports.
12.40—Musical Selections, relayed from Hoyt's De Luxe.
12.55—Mail Notices, Shipping Movements.
1—Close down.

Afternoon Session.

- Bendigo Races, first day.
Results at 1/20 at half-hourly intervals.
2.35—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from the De Luxe, Bourke Street.
4—Time Signal, chiming from Clock Tower, General Post Office, Melbourne.

- 4.55—Hoyt's Premier Orchestra.
4.55—The Evening Amusement Guide.
5—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings; close down.
6.15 to 7.30—The Children's Corner by Uncle Ned. (1) The Bedtime Story; (2) Talk on Hobbies.

- 8—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings.

- 8.1—Miss Phyllis Higginbotham (soprano).
8.5—Miss Evelyn Gibbs (violinist).
8.16—Mr. Charles Tobin (elocutionist).
8.23—Mr. David Coates (tenor).
8.30—Mr. J. Frason, will talk on Swimming.
8.45—Miss Hilda Power (mezzo-soprano).
8.52—Mr. David Coates (tenor).
9—Mr. Leopold A. Carr, will talk on Electro-Therapeutics (i.e., Medical Electricity) and its present-day uses in joint and nervous diseases, 1st series.

- 9.15—Mr. Howard Andrews (baritone).
9.32—Miss Evelyn Gibbs (violinist).
9.39—One Act Play: The House Across the Way.

- 9.45—Miss Phyllis Higginbotham (soprano) and Mia Blanche Tate (mezzo), duets.
10—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings.

- 10.1—The Age News Bulletin, exclusive to 3AR.
10.16—Hoyt's Premier Orchestra.
10.40 Approx.—National Anthem and Close down.

THURSDAY, MAY 20.

Morning Session.

- 11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Wireless Station, England; The British Official Wireless Press.
12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.
12.5—Musical Selections from Hoyt's De Luxe, Bourke St.

- 12.30—Stock Exchange News.
12.35—Market Reports
12.40—Musical Selections.
12.55—Mail Notices; Shipping Movements.
1—Close down.

Afternoon Session.

- Bendigo Races, 2nd Day.
Results after each race, at and half hourly intervals.

- 2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from Hoyt's De Luxe, Bourke Street.

- 3—Time Signal Chimes from G.P.O., Elizabeth St., Melbourne; Studio Barometer and Thermometer Readings; 2nd Weather Forecast.
4.55—The Evening Amusement Guide.
5—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings; Close down.

Early Evening Session.

- 6.45 to 7.30—The Children's Corner by Uncle Ned. (1) The Bedtime Story; (2) Talk on Hobbies. St. Vincent De Paul's Boys Band, relayed from South Melbourne, built B o'clock.

Evening Session.

- 8—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings.
8.1—Special Pig and Calf Report, supplied by Messrs. McPhail, Anderson & Co.

- 8.15—Hoyt's Premier Orchestra.
8.30—Dance Night: The Maison De Luxe Dance Orchestra, relayed from Broadway, St. Kilda, under the direction of Mr. George Lewis.
9.30—Hoyt's Premier Orchestra.
10—Time Signal, chiming from Clock Tower, General Post Office, Melbourne.
10.1—The Age News Bulletin, exclusive to 10 3AR. The Rhythmic Dance Orchestra, relayed from the Maison De Luxe.
11—National Anthem and Close down.

3LO

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FRIDAY, MAY 14.

Midday Session.

- 12 noon—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show at the Exhibition Buildings.
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—The Studio Orchestra.
1.10—Bessie Gaunson, violin solo.
1.15—Mr. Lance Le Souef, "Australian Development."
1.35—The Station Trio.
1.38—Walter Smith, cornet solo.
1.44—The Studio Orchestra.
2—Close down.

Afternoon Session.

- 3—Time Signal.
3.1—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show, Exhibition Buildings.
3.20—The Studio Orchestra.
3.32—Eileen Starr, soprano.
3.42—Edouard and Raymond Lambert.
3.55—Au Fait, of Messrs. Buckley and Nunn Ltd., Fashion Talk.
4.10—Edouard Lambert, violin solo.
4.15—Eileen Starr, soprano.
4.25—Raymond Lambert, piano solo.
4.30—Edouard Lambert, violin solo.
4.35—The Studio Orchestra.
4.45—"Herald" News Service; Stock Exchange Information.
5—Close down.

Evening Session.

- 6—Children's Hour; Stories by Billy Bunny; Nursery Rhymes, Mr. and Mrs. Frog go back to Stella, 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.
7.3—Fish Market Reports by J. R. Barrett Ltd.
7.4—Market Reports by the Victorian Producers Co-operative Co. Ltd.: Haymarket Sales, Poultry, Grain, Graft, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session.

- 7.20—Under the auspices of the Develop Australia League; Mr. Alfred Peters, The Ideals of a Good Citizen.
7.40—Miss Mary Jerrold, of the Bouccault Company, will speak from her dressing room at King's Theatre by permission of J. C. Williamson Ltd.
8—Collingwood Citizens' Band.

- 8.10—School Sport and School Life, by The Captain.
8.30—Edouard and Raymond Lambert, violin and piano.
8.36—Mrs. Maurice Dudley and Mr. Charles R. Dyson in a dialogue, The Impertinence of the Creature.
8.51—Collingwood Citizens' Band.
9—Under the auspices of the Department of Agriculture, Mr. W. B. Miller (Science Field Officer), Treatment of Seed Wheat—Dry Pickling.
9.20—Collingwood Citizens' Band.
9.26—Oliver Peacock, baritone.
9.33—Raymond Lambert, piano solo.
9.37—Edouard Lambert, violin solo.
9.45—Collingwood Citizens' Band.

- 10—"Herald" News Service; British Official Wireless News from Rugby; Meteorological Information; Notes on to-day's activities on the Melbourne Stock Exchange.

- 10.10—Oliver Peacock, baritone.
10.17—Mrs. Maurice Dudley and Mr. C. R. Dyson in a dialogue, Clearly and Concisely.

- 10.37—Collingwood Citizens' Band.
10.37—Raymond Lambert, piano solo.
10.43—Edouard Lambert, violin solo.
10.46—Collingwood Citizens' Band.
11—God Save the King.

SATURDAY, MAY 15.

Morning Session.

- 11—Time Signal.
11.1—Harold Rodgers, organ recital.
11.10—Edouard and Raymond Lambert, violin and piano.
11.15—Harold Rodgers, organ recital.
11.25—Raymond Lambert, piano solo.
11.29—Edouard Lambert, violin solo.
11.36—Harold Rodgers, organ recital.
11.46—Raymond Lambert, piano solo.
11.50—Edouard Lambert, violin solo.
11.55—Harold Rodgers, organ solo.
12 noon—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show at the Exhibition Buildings.

- 12.20—Time. British official wireless news from Rugby. Reuters and the Australian Press Association cables. "Argus" and "Herald" news services. Shipping intelligence.
12.45—Stock Exchange Information.
12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Report.

- 1—Time Signal.
1.1—The Studio Orchestra.
1.15—Adele Crane, soprano, by permission of J. C. Williamson Ltd.
1.22—Agnes Fortune, piano solo.
1.27—The Station Trio.
1.32—Adele Crane, soprano.
1.39—Walter Smith, cornet solo.
1.47—The Studio Orchestra.
2—Close down.
2.30—Result of Hurdle Race from Sandown Park Race Meeting.

Afternoon Session.

- Transmission from International Motor Show—"Victrolon" Orchestra.
3—Time Signal. Result of Two-Year-Old Handicap.

- 3.1—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show, Exhibition Buildings.
3.20—Victrolon Orchestra.
3.30—Result of Sandown Plate.
3.31—Victrolon Orchestra.
4—Result of Sandown Purse.
4.5—Victrolon Orchestra.
4.30—Result of Sandown Park Handicap.
4.31—Victrolon Orchestra.
4.45—Sporting Results; "Herald" and "Argus" News Services.
5—Result of Trial Weight Handicap.
5.1—Close down.

Evening Session.

- 5.45—All Sporting Results, local, country, and Interstate.
- 6—Children's Hour; Stories by Mary Gumleaf; Poems, Little Dame Crump, Andy; story for the littlest ones, As Ilappy as a King; songs by the Wattle Girl and Mary Gumleaf; travel talk, Sights of London.
- 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. Borrett 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.

- 7.20—Mr. Charles Nuttall, travelogue, Java.
- 7.40—Dr. J. A. Leach, Fingers and Toes of Birds.
- 8—Victorian Railways Institute Orchestral Concert.
- 8.10—Madame Evelyn Ashley, Miss Florrie Gordon, Mr. W. Roberts and Mr. W. Davey, quartette.
- 8.18—Florrie Gordon, contralto.
- 8.26—Victorian Railways Institute Orchestra, suite.
- 8.42—W. Davey, tenor.
- 8.50—Madame Evelyn Ashley and Florrie Gordon, duet.
- 8.58—Victorian Railways Institute Orchestra, symphony.
- 9.12—"Herald" news service. British official wireless news from Rugby. Meteorological information. Notes on to-day's activities in the Melbourne Stock Exchange.
- 9.25—Victorian Railways Institute Orchestra, overture.
- 9.37—Madame Evelyn Ashley, soprano.
- 9.45—W. Davey and W. Roberts, duet.

- 9.53—Victorian Railways Institute Orchestra, suite.
- 10.13—Florrie Gordon, contralto.
- 10.21—W. Roberts, bass.
- 10.29—Victorian Railways Institute Orchestra, march.
- 10.30—Madame Evelyn Ashley, Florrie Gordon, and W. Roberts, trio.
- 10.44—Victorian Railways Institute Orchestra, overture.
- 11—God Save the King.

SUNDAY, MAY 16.

Morning Session.

- 11—Service from the Baptist Church, Collins St., Melbourne, celebrating the anniversary of the church's North Carlton Sunday School; preacher, Rev. W. D. Jackson, B.A.
- 12.15—Close down.

Afternoon Session.

- 3—Pleasant Sunday Afternoon Service, Central Mission, Wesley Church. Chairman: Rev. J. H. Cain.
- 4.30—Close down.

Evening Session.

- 6—Children's Hour, Stories by Billy Bunny; Lost Garden, The Loveliest Life, Keep on Flapping. Close down.

Night Session.

- 6.45—Service from Wesley Church Central Mission, Lonsdale St., conducted by Rtv. C. Irving Benson.
- 8.30—From the Studio: Edouard and Raymond Lambert, piano and violin.
- 8.35—Jane Douglas, soprano, by permission of J. C. Williamson Ltd.
- 8.43—Raymond Lambert, piano solo.
- 8.49—Tom Broderick, baritone, by permission of J. C. Williamson Ltd.
- 9.6—Harold Rodgers, organ recital.
- 9.14—Edouard Lambert, violin solo.
- 9.19—Jane Douglas, soprano.
- 9.26—Raymond Lambert, piano solo.

- 9.32—"Argus" and "Herald" news service.
- 9.42—Tom Broderick, tenor.
- 9.49—Edouard Lambert, violin solo.
- 9.53—Harold Rodgers, organ recital.
- 10—God Save The King.

MONDAY, MAY 17.

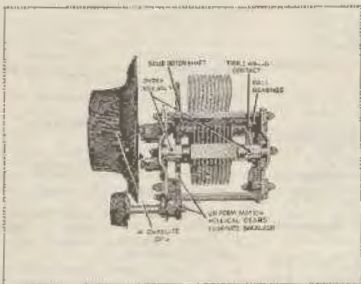
Afternoon Session.

- 4.17—Studio Orchestra.
- 4.24—Leslie Boardman, tenor.
- 4.31—Tasma Tierman, cello solo.
- 4.45—"Herald" news service. Stock Exchange Information. Close down.

Evening Session.

- 6—Children's Hour, Stories by "Billy Bunny"; Nursery Rhymes, The Zebra and the Wishing Fairy, Black Beauty, T. J. and John and James Mitchell in mouth organ selections.
- 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 Report by J. R. Borrett Ltd.
- 7.2—Fruit Market report by J. R. Borrett Ltd.
- 7.4—Market reports by the Victorian Fruit Advisory Board. Producers Co-operative Co. Ltd., Haymarket Sales; Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
- Night Session.
- 7.30—Under the auspices of the New Settlers' League: Mr. Ambrose Pratt, Seconers' Interests in Country Towns.
- 7.40—Under the auspices of the Department of Agriculture: Mr. H. A. Mellor, Agricultural Superintendent. Wheat Growing in the Mallee.
- 8—Victorian Railways Military Band.

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- 8.45—Rev. Kenneth Henderson, Education—some practical problems.
- 9—Oliver Peacock, baritone.
- 9.7—Jessie Smith, contralto.
- 9.13—Victorian Railways Military Band.
- 10—Mr. J. Howlett Ross; The Relief of Mafeking.
- 10.15—Professor Pietro Sarcelli, violin recital.
- 10.25—Oliver Peacock, baritone.
- 10.32—Jessie Smith, contralto.
- 10.39—"Argus" news service. British official wireless news. Meteorological information. Notes on to-day's activities on the Melbourne Stock Exchange.
- 10.48—Professor Pietro Sarcelli, violin recital.
- 11—God Save the King.

TUESDAY, MAY 19.

- Midday Session.
- 12—Time Signal. British official wireless news from Rugby. Reuters'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 Reports.
- 1—Time Signal.
- 1.1—Studio Orchestra.
- 1.9—Dorothy Roxburgh, viola solo.
- 1.14—Ella Riddell, contralto.

- 1.21—Mr. Hugh Egan; Draughts—noticeable matches and tourneys.
- 1.40—Ella Riddell, contralto.
- 1.47—Studio Orchestra.
- 2—Close down.

Afternoon Session.

- 3—Studio Orchestra.
- 3.10—Teddie Rich, soprano.
- 3.20—Studio Orchestra.
- 3.30—Matron Moreland; Infant Welfare
- 3.45—Melba Storks, contralto.
- 3.55—Tasma Tiernan, 'cello solo.
- 4—Teddie Rich, soprano.
- 4.7—An Foll, of Messrs. Buckley and Nunn; Fashion Talk.
- 4.32—Melba Storks, contralto.
- 4.32—Studio Orchestra.
- 4.45—"Herald" and "Argus" news services. Stock Exchange information.
- 5—Close down.

Evening Session.

- 6—Children's Hour. Stories by Mary Guesaf. Poems, There was a wee Man Missing; story for the littlest ones. Little Fairy Goodfellow; for the bigger ones, specially adapted. The Story of the Midsummeer Night Dream, with short recitals.
- 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
- 6.53—Weather Synopsis; Shipping Movements.
- 6.58—Stock Exchange Information.

- 7.2—Fish Market Reports by J. R. Borrett 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—Mme. Soward; Jenne Fille.
- 7.40—Under the auspices of the University Extension Board: Mr. J. T. Sutcliffe, Trade Unionism.
- 8—Debate between the Imperial Debating Team and the Melbourne Debating Team. Subject: That the League of Nations is a Failure. Transmitted from the Public Lecture Theatre, Melbourne University.
- 10—Edouard and Raymond Lambert, piano and violin.
- 10.7—Jessie Smith, contralto.
- 10.17—Raymond Lambert, piano solo.
- 10.24—Edouard Lambert, violin solo.
- 10.29—Jessie Smith, contralto.
- 10.36—"Argus" news service. British official wireless news from Rugby. Meteorological information. Notes on to-day's activities on the Melbourne Stock Exchange.
- 10.40—Raymond Lambert, piano solo.
- 10.54—Edouard Lambert, violin solo.
- 11—God Save The King.

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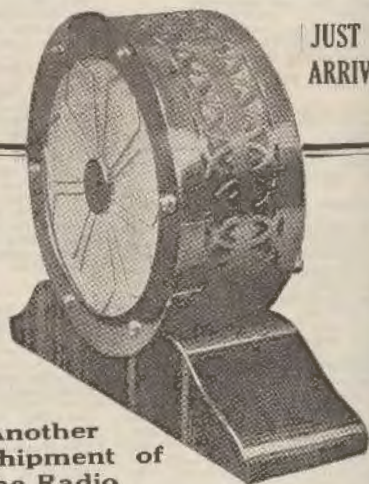
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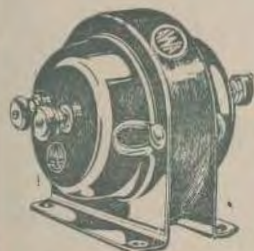
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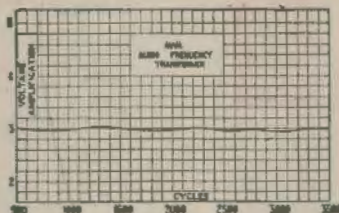
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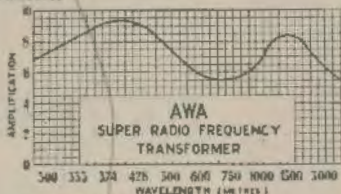
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