

# WIRELESS WEEKLY

Registered at the G.P.O., Sydney, N.S.W.

Published by post at 6/6 per annum

VOL. 7. No. 26.

FRIDAY, APRIL 23, 1926.



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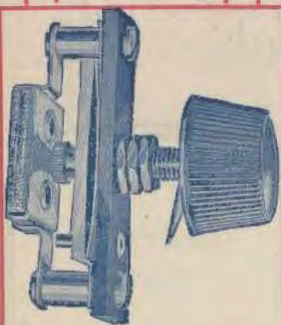
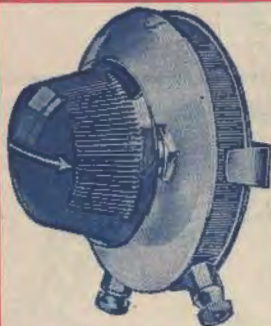
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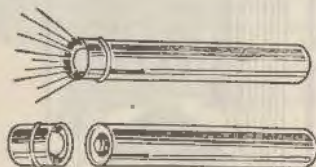
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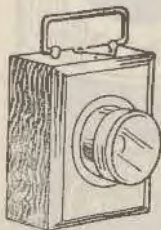
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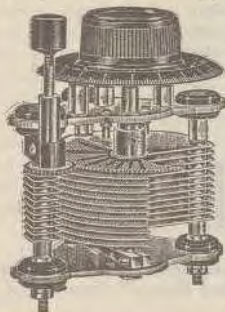
IT IS NEITHER WISE NOR ECONOMICAL to buy cheap Condensers, when for a little extra you can get the best.

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**makes a friend of the electrical impulse**

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# WIRELESS WEEKLY

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## TRANS-OCEAN WIRELESS

In the general affairs of broadcasting we are apt to forget the fact that wireless is progressing by leaps and bounds along other lines. A cable message published in the "Sun" on Saturday last draws our attention to the fact that the British end of the Trans-Ocean Beam Wireless Service should be in operation about June 11th, by which date the station at Skegness is to be ready for working.

Sir Robert Donald, retiring president of the Empire Press Union, stated that although the Australian station would not be finished until the end of July, the Commonwealth ought to receive radiograms a little sooner. We may assume from this that the despatch of press messages from England to Australia will commence as soon as the transmitting apparatus at Skegness is geared up, and we may also gather from Sir Robert's remarks that the rates via wireless will probably be two thirds of the present cable rates.

The big dailies spend many thousands of pounds per annum on press cables, so that the Beam System, in lopping off one-third of the cost, should become directly responsible for supplying the Australian public with better and more ex-

## CONTENTS

	Page
Progressive System of Construction (Part 5)	7
Queries Met by Every Beginner (Contd.)	11
Constructional Details of a Simple Collapsible Loop	13
The Programmes (A Reply)	15
On the Air	17
From Here and There	23
Station 3CR	29
Around the Traders	33
Broadcast Programmes	37

tensive overseas news than is possible under the present circumstances. Since the limits of anything are invariably determined by the cost, it seems obvious that we may anticipate the publication of International news in greater detail than existing conditions warrant, and the inclusion of a great deal of matter which scarcely ever sees the light of day.

This, however, is only one aspect of the Beam Wireless Service. From whatever point of view we examine it, the Service has potentialities that are endless, and which more than justify the confidence placed in it by those concerned with its establishment. Commercial expansion depends very largely upon means of transport and of communication. It seems that the solution to the first problem rests entirely with the development of aircraft, and just as the comparatively slow steamship must eventually give way to swift and powerful vessels of the air, so Beam wireless, by virtue of its speed and economy must supersede existing means of telegraphic communication. And if the Service between England and Australia proves successful, who can forecast the extent of the further development of this new and wonderful system?

A. W. WATT.

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**AUSTRALIA'S BEST BY TEST!**

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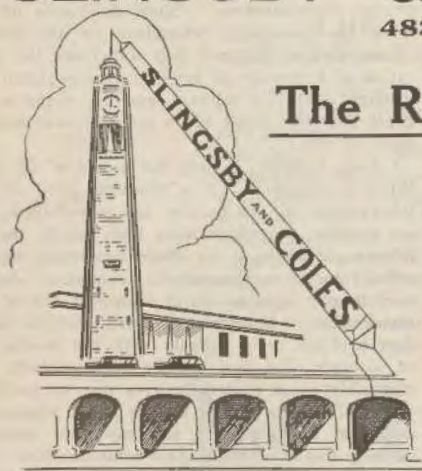
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Complete sets and parts on TERMS or lay by.

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

MODEL ENGINES AND PARTS



# THE PROGRESSIVE SYSTEM OF CONSTRUCTION

Part 5.

By *Wireless Weekly*

During the last three months several letters have been received from our readers, stating that they have tried each and every hook-up that has been published from time to time, and although some very excellent results have been obtained the city and suburban readers of both Sydney and Melbourne invariably state that they cannot satisfactorily receive the interstate stations 3LO or 2BL, as the case may be.

At a recent demonstration we conclusively proved that the loop receiver described in this issue will entirely eliminate the locals. Two or three of the gentlemen present were, we feel sure fully convinced that they would hear the familiar voice of Uncle George or Jack percolating through the excellent music of 3LO. If this was so, they were disappointed, as 3LO was received at full loud speaker strength from 7.45 p.m. till 10.45 p.m. without any interference whatever.

Those of our readers who have been following up the "Wireless Weekly" articles are forced to admit that we have done our best to overcome the disadvantage of being situated close to the local stations. Amongst some of the selective receivers published have been "The Sure Fire Circuit for 3LO" (employing the well-known 3-coil tuner circuit followed by a stage of radio frequency amplification, tuned plate method), and the Neurodyne.

For readers who are situated in positions where both of these receivers have failed to eliminate the locals, it is doubtful whether any home constructed receiver except a Super-heterodyne will operate any better when using the outside aerial. It is these large outside aerials which cause most of the interference; a short low aerial will invariably tune sharper than a long high aerial. Remember this if you cannot afford the two H.F. am-

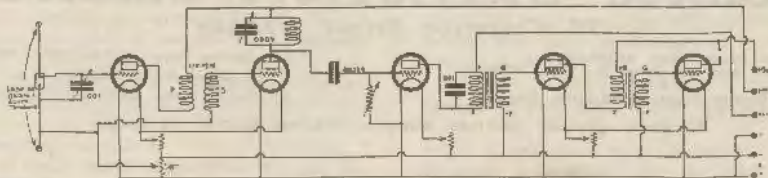
plifiers necessary for use with the five-valve loop receiver herewith described. Those of you who have never used a loop in lieu of your outside aerial are in for an agreeable surprise. At the writer's home this receiver will successfully tune in all the low wave "A" class stations seven nights in the week. The more advanced readers will readily recognise that the hook-up used is very prehistoric, but nevertheless it is remarkably efficient on all wavelengths up to 5,000 metres.

## Construction.

Those who have been following this progressive series of articles week by week will have all their necessary panel components already mounted in the correct position to suit this hook-up. For beginners and new readers who have joined our ranks we are again numerically explaining where each of the panel and baseboard connections go to.

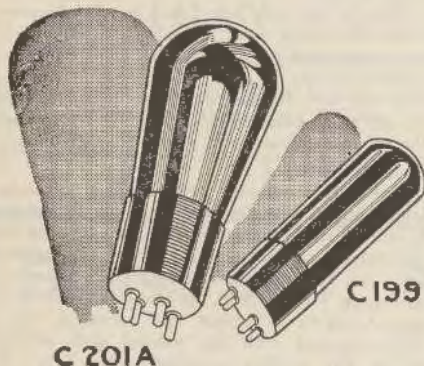
## Panel Connections.

(See back views). No. 1 links the aerial or loop terminal with the top connection of panel plug. It will be readily seen that the primary and tickler coil holders are not in use. No. 2 is a short link from No. 1 to the fixed plates of the .001 variable condenser. No. 3 links the lower terminal of panel plug to earth or second loop terminal, and also makes contact with the moving plate connection of the .001 variable condenser. No. 4 is a short link soldered to No. 3, the other end of which goes to the moving arm of the potentiometer. No. 5 is the negative A bus-bar, which goes from the filament switch to the left hand terminal of the potentiometer. Nos. 6, 7 and 8 being small links taken from this to the left hand terminals of the rheostats. Nos. 9 and 10 links the tuned plate panel plug with the fixed and moving plates of the .0005 condenser.



BURGESS—"THEY'RE ON THE 'LEVIATHAN'"—BATTERIES

# CONTINENTAL VALVES NOW 12!



because during this season's boomtime of American Radio their **QUALITY & DURABILITY** have produced enormous sales. Quantity of sales has lowered cost of production, and thus we can now sell these Valves at 12/- each.

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Type C.201A.  
Detector and Amplifier.  
Fil. Volts, 5.  
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RETAIL PRICE—12/

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Fil. Amps., .08.  
Plate Voltage, 15—80, with 100 or standard base.  
RETAIL PRICE—12/

Wholesale only from the

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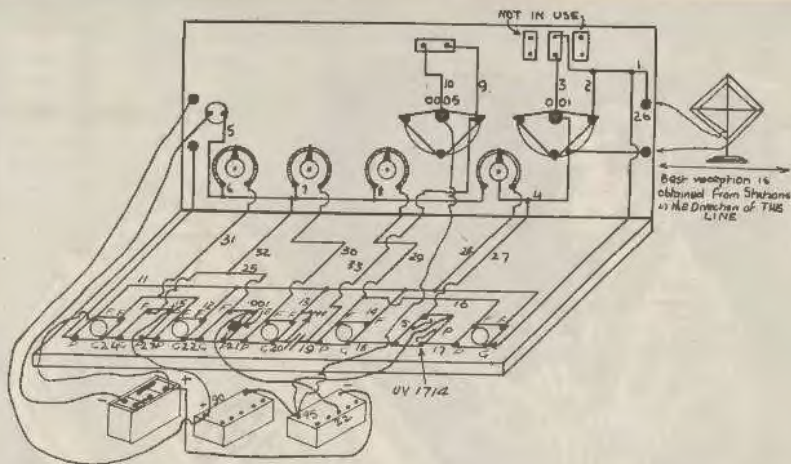
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If your dealer cannot supply, let us know at once





### Base Board Connections.

No. 11 is the +A bus-bar and links the left hand F terminal of fifth valve holder with the right hand F terminal of the first valve holder. Nos. 12, 13 and 14 are links soldered to the positive A bus-bar, the other ends of which go to the left hand F terminals of the second, third, and fourth valve holders respectively. No. 15 links the two inside F terminals of fourth and fifth valve holders, and No. 16 links the two remaining F terminals of the first and second valve holders. Nos. 17, 18, 19, 20, 21, 22, 23 and 24 are short links and are self explanatory. Don't forget the small blocking condenser between the P and G terminals of the second and third valve holders. No. 25 links the two F terminals of Audio transformers.

Connections Made after Panel and Baseboard have been secured together.

No. 26 is a connection taken from No. 2 to grid terminal of the first valve. No. 27 links the No. 1 terminal of the secondary of radio transformer with the No. 4 connection. No. 28 links the +A bus-bar with the right hand terminal of potentiometer and so enables a positive or negative bias to be placed on the grids of the two radio frequency amplifiers. Connections Nos. 29, 30 and 31 complete the filament wiring of all valves. The first rheostat controls the two R.F. valves, the second the detector only, and the third controls the two audio frequency amplifiers. No. 32 links the F terminal of audio transformers with the -A bus-bar.

If a "C" battery is required, the negative F should go to the negative C and the positive C to the negative A bus-bar connection shown as No. 5. About 4.5 volts will be suitable where a 90 volt "B" battery is used. No. 33, the final connection, is taken from P of the second valve to the fixed plates of the .0005 variable condenser. The battery connections are all made direct, as shown.

### Tuning.

The tuning of this receiver is somewhat easier than the four valve receiver described in last week's issue. The extra H.F. amplifier employs an aperiodic transformer with no extra tuning control, except that it is fitted with two links which, when closed, short circuit a portion of primary and secondary windings for reception of wavelengths up to 500 metres. For wavelengths from 500 to 5,000 metres both links must be opened.

The second H.F. amplifier valve employs the ordinary tuned plate method of amplification, and for all the lower wave stations with the links closed a 50 turn honeycomb or spiderweb coil should be plugged into the tuned plate coil holder. For tuning the long wave broadcast stations the transformer links must be opened and a 150 turn coil used in lieu of the 50

It will be readily understood that when the receiver is used with a loop only one tuning coil is used, viz., the tune plate coil. If, however, an aerial is used in lieu of the loop, a grid coil of 25 turns is necessary for the lower wavelength stations, and a 100 turn coil for the higher wave

**B  
T  
H**

**VALVES**

**POWER AMPLIFYING VALVES.**  
Types B.5, B.4, B.6, B.7, B.3.  
The B.4 Valve was the pioneer of its class, and is still pre eminent.  
Designed for L.F. power amplification, it is, by virtue of its characteristics, the valve for pure undistorted loud speaker reproduction. It functions equally well as a detector. It can be used with a 6 volt accumulator without any filament resistance.

Electrical characteristics—  
Filament voltage, 5 to 6 volts.  
Filament current, 0.25 amps (at 6v.).  
Voltage factor, 6.7.  
Anode voltage, 40 to 120 volts.  
Anode resistance, 5000 ohms.  
Mutual conductance, 1100.  
Grid bias voltage, 0 to 4½ volts.

**AUSTRALIAN GENERAL ELECTRO LTD.**  
C/r Wentworth Avenue & Goulburn Street  
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Agents: Engineering Supply Co. of Aust. Ltd., C/r Edward and Charlotte Sts., Brisbane, Q.;

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ones. We would like to definitely point out that the locals cannot be cut out entirely in Sydney and suburbs when this receiver is used on an aerial. (See last week's "W.W." for further instructions for tuning).

Quite a number of our readers are, we feel sure, fully aware that any ordinary straight-out regenerative receiver is quite sensitive enough to receive the interstate stations with more or less interference. For this reason there is no object in adding radio frequency amplification when the outside aerial is used, unless the selectivity is considerably increased by doing so.

#### The Loop.

Read the instructions carefully concerning the construction, and don't be tempted to use cheap loop wire.

The following materials are necessary for the construction of this receiver:

- 1 Panel—20 x 6½ x 3/16 inches.
- 1 Baseboard—20 x 7 x 1 inches.
- 5 Valves.
- 5 Valve Holders.
- 3 Rheostats (to suit valves).
- 1 Potentiometer.
- 2 Audio transformers.
- 4 Terminals.
- 1 .001 variable condenser.
- 1 .0005 variable condenser.
- 1 .001 fixed condenser.
- 1 .00025 grid condenser.
- 1 Variable grid leak.
- 1 R.A.C. transformer, UV.1714.
- Honeycomb coils.
- 1 Loop.
- "A" and "B" batteries.

## Queries Met by Every Beginner

(Contd.)

A reader writes as follows: "I have an expensive accumulator which is 18 months old. For the last three or four months it has been giving considerably less service than it did when new. Does the acid require renewing? If so, should it be added when the battery is in a charged state or otherwise? Some advice on this matter will be appreciated and should also interest many other readers."

You should renew the acid immediately. It is a good plan to do so annually. The acid should never be changed when the battery is in a discharged state. The most efficient method is to give the battery a little extra charge, and then empty away the old acid and wash the battery out with distilled water (not tap water). If it has a

celluloid container, don't attempt to remove the top. By careful washing, all the sludge which has accumulated between the plates and at the bottom of the container can be got rid of quite easily. The acid added must be of the correct density, as recommended by the maker.

It will be found that it is possible to use the battery without further charging, but this is not recommended. Another long slow charge at half the normal rate will be found to be the most satisfactory method of obtaining the full rated capacity of the battery.

Don't expect too much from sets thrown together in a few minutes! "This or that circuit as described in \_\_\_\_\_ is no good." How often does one hear this remark from a friend, or maybe yourself?

Sometimes it is because the set was slapped together to give it a try. Connections were left unsoldered, perhaps, or the components strewn about all over the baseboard or panel. Howls and squeals may have resulted, and in consequence circuit condemned as no good.

We appeal to our readers to be generous to the sets we describe. They must have had real merit to have been published in "Wireless Weekly." If a receiver does not do all that the writer claims it should do, read the article again and see if you have followed the instructions in every detail. Even if your sets are built well don't complain that you cannot consistently receive stations situated 2,000 miles away with a three-valve regenerative receiver. Such complaints are received almost daily 'Safact! Take the radio claims of your friends (no matter how honest he may ordinarily be) with a grain of salt.

We are undoubtedly favoured with climatic and atmospheric conditions which make long distance reception somewhat easy, but nevertheless we must not over-estimate. If we do, the beginner must necessarily be somewhat disappointed with the results he obtains.

#### THE CODE WORD COMPETITION.

The Competition code word transmitted from 2WW on the 6th was DTLUXDRSIG. The first correct answer opened by us was sent in by Mr. R. McKenna, Garling Street, Lane Cove.

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



## IGRANIC RADIO DEVICES

and the Supersonic Heterodyne Kits  
The finest components in the world.

### BROWN LOUD SPEAKERS

Now EIGHT models to choose from  
And the new type A 2 phones

### OLDHAM (SPECIAL ACTIVATION) BATTERIES

The battery which holds its charge longest

### PHILIPS VALVES AND RECTIFIERS

### NOYES BROS.

(Sydney) Ltd.

Melbourne (Pty.) Ltd.

SYDNEY: 115 Clarence Street.

MELBOURNE: 495 Bourke Street.

NEWCASTLE: 11 Watt Street.

ADELAIDE: Darling Buildings,

BRISBANE: Perry House.

Franklin Street.

HOBART: 145 Macquarie Street.

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

Sole Agents for BROWN'S Loud Speakers.

Distributors of PHILIPS Valves.

Visit our stand No. 9  
Radio and Electrical  
Exhibition  
Town Hall, May 3 to 8

Write for Booklet  
No. 3. Post Free

## Brown

## Columbia 22½ Volt "B" Battery No. 4766



**E**SPECIALLY adapted for use with soft detector tubes. Large size cells make it the most economical. Six Fahnestock spring clip connectors with a range of 16½ to 22½ volts.

Factory Representatives: ELLIS & COMPANY (Aust.) Ltd., 316 Kent St., Sydney, N.S.W. 1

Use only

## Columbia Radio Batteries

Made by the manufacturers of the Famous Columbia Dry Cell



## Constructional Details of a Simple Collapsible Loop

It has long been known that the loop is a highly directional type of aerial, receiving best from those stations which are in the line of its plane and eliminating other stations which are in a direction at right angles to this line. Loops were widely used during the war for under-water reception in submarines and in the large battleships have proved invaluable, not only for locating the position of enemy ships and stations, but also for the assistance they rendered to navigating officers entering or leaving ports during a fog.

This directional property of the loop is of the utmost importance to broadcast listeners in Australia. Most listeners, however, seem to be of the opinion that the loop is only good for local reception, and that where long distance stations are required a large, elaborate aerial system must be employed. This is absolutely false. With a properly designed receiver better all-round results will be consistently obtained with an efficient loop than can be obtained with a set which requires an outside aerial. This fact is due to two properties inherent in the loop: (1) Its directional sel-

activity, which has been discussed above, and (2) the fact that the loop improves the ratio of static to desired signal.

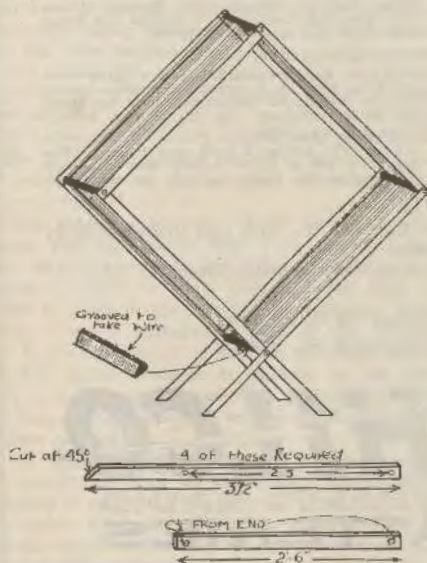
The loop is in no sense of the word a static eliminator, but, due to its directional properties, it IS a great static reducer. This is a matter of prime importance during summer months.

In constructing and operating the loop, care should be taken to see that as little metal as possible is placed in the active field of the loop. The framework should be made rigid, and the wire wound on very tightly. If our drawings are copied exactly the loop will successfully collapse for portability and the wire still kept taut.

Each turn requires ten feet of wire. For the lower wave stations 100 feet of wire is necessary, viz., 10 turns, and for the higher wavelengths of 2FC and 6WF a further 10 turns are required, a clix or es being used to series the two lots of 10 turns for the higher waves. Care should be taken, however, to see that the clix contacts are broken when tuning to wavelengths lower than 500 metres.

Fig 1 shows the dimensions of the frame, and Fig. 2 shows the drawing of the completed loop. The long 3 feet 2 inch lengths and the shorter 2 feet 7 inch lengths are made from maple strips  $1\frac{1}{2}$  inches wide by  $\frac{1}{2}$  inch thick. When the long and short lengths have been cut and drilled accurately, four small pieces of Maple  $8 \times 1 \times 1$  inches should next be obtained. Carefully round off one of sharp corners of the whole length of the wood, after which 20 small grooves, large enough to take the turns of wire, should be filed into the rounded portion at a distance of  $\frac{3}{8}$  inches apart. Carefully measure the two lots of ten grooves, starting from each end. This will then leave about 1 inch clear between the two lots of ten turns.  $1\frac{1}{2}$  inch screws are necessary to secure the frame together. A small washer is placed on either side of the standards to enable the loop to collapse easily.

The loop structure may be polished or varnished to match the furniture. The actual loop as described above will be on show for the benefit of our readers at the experimenters' stand of the Wireless Exhibition to be held in the Town Hall early in May.



# The New PHILCO

## RECHARGEABLE "B" BATTERY

The very latest developments in Storage Battery Construction are embodied in the New Philco Rechargeable "B" Batteries: Types 83X and 86H. Designed with the express purpose of replacing the 90 volt dry battery, these models offer to the Radio Enthusiast the finest H.T. supply possible.



Type, 248 DXO. Voltage, 48. Capacity, 3,000 Ma. Hours. . . . .	Price, 26/4/0
Type, 83 X. Voltage (Replaces 90 Volt Dry Battery). Capacity, 3,000 Ma. Hours. . . . .	Price, 18/16/0
Type, 22 DX. Voltage, 2. Capacity, 3,000 Ma. Hours. . . . .	Price, 5/0
Type, 248 DHO. Voltage, 48. Capacity, 6,000 Ma. Hours. . . . .	Price, 18/5/0
Type, 86 H. Voltage (Replaces 90 Volt Dry Battery). Capacity, 6,000 Ma. Hours. . . . .	Price, 21/10/0

**EFFICIENCY:**—Static cannot be blamed for all those crackles. Your dry "B" Battery with its imperfect continuity causes a lot of them.

Radio experimenters and Listeners-in who use Philco Rechargeable "B" Batteries know what it is to get pure music always.

**ECONOMY:**—These batteries will give trouble-free service for years with only a minimum of attention.

When dry batteries run down they are useless and are thrown away. The average Listener-in spends 15 per annum in Dry Batteries. Philco Rechargeable "B" Batteries can be recharged for a few pence. The initial cost plus a few pence a year for charging is the only cost.

### 1. GLASS CELLS.

With acid-tight sealed covers. Safe for use anywhere in your home.

### 2. MAHOGANY FINISHED CABINET.

Beautiful and Decorative.

### 3. CHARGE INDICATORS.

Exclusive Philco Feature that tells all conditions of charge and discharge. No more bothering with old-fashioned hydrometer or guesswork charging.

### 4. TREMENDOUS CAPACITY.

Double that of ordinary "B" Battery. Needs recharging only every 2 or 3 months and filling with water only once every season.

### 5. EASILY RECHARGED.

With new Noiseless Charger—just a throw of a switch—a plug in a socket. No noise—impossible to overcharge. Recharging costs only from 2d. to 5d.

### 6. DYNAMIC FEATURE.

Insures your getting a fresh new battery. The life of a Philco Radio Battery does not start until you or the Dealer pours in the electrolyte.

## SPECIAL NOTE

For those interested in the construction of their own "B" Batteries, the 22DX type single cell offers undoubted advantage.

Priced at 5/-, it is exactly the same cell as is mounted in the famous Philco Types 248 DXO and 83 X.

Illustrated Catalogue from all Dealers or direct from  
PHILCO BATTERY CO., 280 Castlereagh St., Sydney

" Built Like a Bridge  
with the Famous  
Diamond Grid Plates "

**PHILCO**  
DYNAMIC RADIO  
BATTERIES



## The Programmes

A Reply to "Programme."

(To the Editor.)

Sir,—With reference to the rather querulous letter signed "Programme," in last week's "Wireless Weekly," it is well to remember that there are other aspects of the matter which it is very obvious he has not considered. The heavy cost of running a radio station is perhaps the first. The payments to artists and in respect to copyright, quite apart from over-head, running cost, etc., covering a complete musical programme every evening would run into many thousands of pounds per annum. The present cost of running an A class station exceeds considerably the actual revenue received and this has to be made up by some one. To add to this would mean the extinction of the stations. Moreover there is a much more important side to radio than mere entertainment. It is one of the greatest educational factors ever developed and will do more to raise the standard of the listeners-in than any other means at present available. The fact that every broadcasting station utilises portion of its programme space for talks is evidence that these are acceptable to the listeners-in. The cost of a talk is less than the payments that would have to be made to singers or instrumentalists and so equalises the cost of the evening's entertainment. Again in regard to lectures it may be said that a week's consistent music and singing would dull the palate and satiate even the most enthusiastic radio fan. The writer of this letter fails to appreciate radio in its true proportion to life—it is something which is there when wanted and need not necessarily be used every night and for every hour of the programme. Tastes differ very widely and every section of the community has to be seriously considered and catered for.

The choice of lectures—as far as 2BL is concerned and the reason why your correspondent picks on this station to the exclusion of all others is not apparent—is very wide and yet high in regard to value of the information broadcast. Your correspondent is mistaken in thinking that "every-one" reads the papers or indulges in travel books, etc.—the actual evidence is strongly to the contrary and many people delight in getting scientific and expert information in tabloid form as a part of their recreation.

In regard to high class and classical music the recent experience of the British Broadcasting Company is that there is a growing appreciation for these great Masters. Hundreds of thousands of persons have "discovered" Bach, Beethoven, and

Brahms, to name only the famous Three B's, since radio was popularised. The same features are found throughout America where there has been a reversion from jazz to classics. There is a vast volume of exquisite music to which the public only requires introduction, but from which they have been more or less debarred by foolish and futile criticism from people such as your correspondent. The operation of the Copyright Law does not apply to these old Masters and so a generous proportion saves money and educates the public. A diet of sweets at any time leads to dyspepsia and a protracted course of "light" music would have a much more detrimental effect upon the listeners-in than would the more solid fare.

Anyhow, your correspondent speaks at best for a small proportion of the public, notwithstanding his Three Tailors of Toohy Street attitude, and has missed entirely the cause which he set out to canvas. Whatever may be the explanation of cancelled wireless licenses, the programmes are not at fault. And would "Programme" like to take on a task of organising 365 different programmes for the year? As a destructive critic there is probably some reason for his existence as portion of the Cosmos but what it is does not emerge from his letter. I am, etc.,

"APPRECIATIVE."

Further comment on this subject will be found on Page 45

### AN APOLOGY.

We regret very much that in the advertisement of Mick Simmons Ltd., on page 46 of last week's "Wireless Weekly," the price of genuine Radiotron Valves was shown as 3/6 instead of the correct price, 13/6.

### AGENCIES AVAILABLE

for the well-known "DUNHAM" products, comprising range of 14 different types of valve receivers, crystal sets and components.

Dunham wireless products have been established on the British market for many years and they are well known for their extremely high efficiency and fine finish combined with reasonable prices. In dealing with Dunham Radio products you are assured of complete satisfaction. Your first step is to obtain our catalogue and let us tell you more of the wonderful products we manufacture.

Fully illustrated 12 page catalogue obtainable from

"WIRELESS WEEKLY,"

12/16 Regent Street, Sydney

together with details of trade and factory discounts. All goods packed and shipped by our export agents, and immediate attention to orders and inquiries assured.

To the Public: Cash with order addressed the well known shipping agents, William Stephens & Co. Ltd., 21 Bush Lane, Cannon Street, E.C.4. Immediate delivery assured.

Advert of C. S. DUNHAM

(Late Radio Engineer to Marconi Sc.Inst.G.)  
234-236 Brixton Hill, London, England. C.F.P. 235

# WIRELESS WONDER

## Colmovox Five

Guaranteed to pick up Adelaide, Melbourne and Brisbane Broadcast on Indoor Aerial

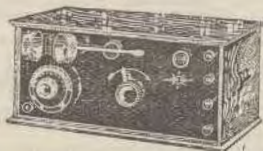
Demonstrations Given Day or Night

### £25-0-0

## Ready to Wire Sets

GENUINE RADIO SETS THAT WILL WORK

£ s. d.		£ s. d.		£ s. d.	
One Valve Set complete with all panel material, cabinet, wiring wire, wiring diagram, solder, etc. . . . .		Two Valve Set complete as illustrated, with wiring diagram, etc. . . . .		Three Valve Set complete with all panel material, cabinet, wiring wire, wiring diagram, solder, etc. . . . .	
2 10 0		4 10 0		6 6 0	
Accessories required:—		Accessories required:—		Accessories required:—	
1 Valve . . . . .	0 13 6	2 Valves . . . . .	1 7 0	3 Valves . . . . .	2 0 6
3 Radioaks Coils, Mtd. . . . .	1 3 0	5 Radioaks Coils, Mtd. . . . .	1 3 0	5 Radioaks Coils, Mtd. . . . .	1 3 0
2 1.5 Dry Cells . . . . .	0 8 0	2 1.5 Dry Cells . . . . .	0 8 0	3 1.5 Dry Cells . . . . .	0 9 6
1 High Tension Battery . . . . .	0 9 8	1 High Tension Battery . . . . .	0 18 0	1 High Tension Battery . . . . .	0 18 0
1 pr. Head Phones . . . . .	15 0	100 ft. Aerial Wire . . . . .	0 2 6	100 ft. Aerial Wire . . . . .	0 2 8
100 ft. Aerial Wire . . . . .	0 2 6	15 ft. Lead-in Wire . . . . .	0 1 3	15 ft. Lead-in Wire . . . . .	0 1 3
15 ft. Lead-in Wire . . . . .	0 1 3			Amplion Junior Speaker . . . . .	3 10 0
£3 10 3		£4 12 9		£8 4 3	



Ready to wire sets are now built using the Armstrong Three Coil Regenerative Circuit instead of the two coil as illustrated. Ready to wire sets supplied with or without accessories.

YOU HAVE NO DIFFICULTY in picking up Melbourne, Adelaide, and Brisbane Broadcast Stations with our READY TO WIRE Receivers. Results guaranteed.

Open Friday Night.

## COLVILLE-MOORE Wireless Supplies Limited

10 Rowe Street (Next Hotel Australia), Sydney



## ON THE AIR

### A SPECIAL CHORAL SERVICE.

On Sunday, April 18th, station 2BL are broadcasting a special Choral service from the Croydon Park Church at 3.30 p.m. The service in the morning is the Newtown Congregational Children's Church which is quite a unique service in every way, the whole of the worship being conducted by the children, guided by their pastor, Rev. Mearns



*Miss Adele Crane has a glorious voice, which has so far not been heard over the Australian ether. It will be remembered that this lady played an important part in the popular production of the "Sally" Company, and during the past few months has been with the "So and So" as prima donna in Adelaide, where she made a very great success. Miss Crane will make her ethereal debut with 3LO, Melbourne, and her number will include ballads and airs from some of the favourite operas.*

Massie. This service has been very successful, both in regard to attendance and transmission by wireless and no less than 6 branch churches have developed in the homes of people possessing loud speakers where the children of the neighbourhood are invited to be present. The Manly Municipal Military Band conducted by Mr. J. Pheloung will also be broadcast during the afternoon and at 8.30 in the evening a Sacred Concert from the Betts Picture Theatre, Bondi, will be transmitted. This concert is being arranged by Miss Doreen Douglas, violinist and will introduce a number of new artists to the listeners-in as well as a considerable number of old friends.

### MINIATURE ORCHESTRA.

On Monday, 19th April, from the Studio of 2BL, Miss Nora Hill, the favourite soprano will be heard in numbers from her repertoire and Mr. Stanley Crittendon will continue in his Photography lectures. Mr. Crittendon's initial lecture was listened to by a great number of amateur photographers with intense interest and it is anticipated that the remaining talks will be equally appreciated. The Newtown Band will be heard at 9 p.m. and will be watched for by devotees of band music. Brass and Military bands are transmitted with great fidelity and as this type of music appeals to many people, the programmes are keenly watched, in order that they may not be missed. Mr. Frank Marshall continues his talks on X-Rays and the lecture on Monday explains exactly the method whereby X-Rays themselves are generated. Broadcasters Miniature Orchestra under the able direction of Mr. Horace Keats continues to delight and entrance the great number of listeners-in who regularly absorb 2BL's programmes. They are to be heard again in a most attractive programme on Tuesday, April 20th. A recent offering that was broadcast was Waldevan (Forest Murmurs from Ziegfried). Mr. Keats is an enthusiastic admirer of the great Wagnerian Music Dramas and his interpretations are invariably interesting. On the same programme Madame Vera Tasma, whose



*E. J. Yande Velde, whose travel talks from 2FC are distinct features. Commencing his world travels in 1906, he has covered the globe, and knows practically every hole and corner.*

**BURGESS—"THEY'RE WITH THE MCMILLAN EXPEDITION"—BATTERIES**

# Equip Your Radio Set

— WITH —



## Mar-Co Vernier Dials

**S**TATIONS you have never been able to separate and bring in clearly without interference, tune in perfectly under the micrometer control of the Mar-Co Vernier Dial.

*Once turn this dial—and you'll know the reasons  
for its sensational popularity*

Seldom, if ever, has any single radio instrument been accorded the immediate and widespread approval that has come to the Mar-Co Dial.

MAR-CO dials are unlike any previous tuning control. Your slightest touch on the knob brings searching response. By splitting each degree into hair's breadth divisions, they develop full value out of the faint impulses that reach your set.

The handy side-slots in the handsome Bakelite give space to pencil in the station settings—right on the dial itself.

So put them on your set now. A few minutes are all you need. And to put it off is to miss the best your set can do.

Ask your dealer to show you this big improvement in tuning controls. Feel, for yourself, its responsiveness, its supreme accuracy. Notice the entire absence of backlash.

Try it on your set—you'll quickly decide no other dial will do.

**Price 16/6 Each**

OBTAINABLE FROM LEADING RADIO DEALERS OR

**Harringtons Ltd**

Wholesalers and Retailers

Photo. and Radio Warehouses

Sydney . . . 886 George Street  
Katoomba . . . Katoomba Street  
Melbourne . . . 268 Collins Street  
Brisbane . . . 93 Queen Street  
Adelaide . . . 10 Rundle Street  
Wellington, N.Z. . . 42 Willis St.  
Auckland, N.Z. . . 140 Queen St.





Miss Eileen Starr, a popular artist at 3LO, Melbourne.

position in the hearts of the wireless public will be difficult to fill will be again heard. Since her return from her interstate tour Madame Tasma appears to be vocally improved and her exquisitely trained voice and cultured interpretations are more delightful than ever. During the same evening Mr. H. E. Crabb will be heard in a second series of talks under the general heading of "The Story of Civilisation," on this occasion with Stone Age Men. Mr. Crabb is a follower of the Gold and Pearls (School of thought and is explaining in popular terms, ideas that have been written about and discussed by men of the type of Sir Elliot Grafton Smith). On the same evening Miss Helen Jean Beegling whose inexhaustible fund of reminiscences concerning movie stars and whose experiences have held the public enthralled will deal with the Lure of Honolulu.

#### MINSTREL TROUPE.

Wednesday, April 21st, sees a busy evening at the Studio of 2BL as this is the night on which the Minstrel Troupe is being broadcast weekly. This delightful old type of entertainment never seems to become wearisome and as it offers innumerable opportunities for novelty items, it is keenly appreciated. Hoyt's Imperial Orchestra transmitting from Hoyt's Theatre will also be heard on this occasion under the capable direction of Mr. Lionel Hart. As a conductor, Mr. Hart has proved himself to be a musician of discernment and discrimination and many expressions of approval have been received by Broadcasters in connection with his work. Another band to be introduced to

the listeners-in on this occasion is the City of Sydney Band which broadcasts exceptionally well and which is being listened to with great interest. Mr. J. M. Prentice will speak on Foreign Affairs and on this occasion will answer written questions. The popularity of Mr. Prentice's expositions of events in the world of politics appears to increase rather than diminish and the opportunity of having questions dealt with is being largely availed of by interested listeners.

#### THE SOUTH SEAS.

2BL will broadcast the Enmore Picture Theatre Orchestra for 2 periods of 15 minutes on the evening of Thursday, April 22nd. On the same evening Mr. Harry Avondale, a comedian of exceptional merit is also being broadcast. Two very distinguished artists in the persons of Mr. Alfred Cunningham, baritone, and Mr. Lance Jeffree, tenor are also billed and the Harmonists, a Vocal Quartette, will also figure prominently. The lecturer for this evening will be Kadavu, who will speak on the subject of "Wanderings in the South Seas." Kadavu is the native name of a gentleman with very considerable experience in the Pacific Islands where he held several positions in the Imperial Service as Deputy Sheriff, dealing with native customs and such minor items as Cannibal Feasts in one of which he nearly figured as the piece de resistance. Kadavu creates delicious shivers and tremors as he narrates his hair-breadth adventures.

#### "SUN" SPORTING EXPERT.

Station 2BL has added to the list of its many experts on various topics by engaging the senior sporting expert of The Sun Newspapers, who deals with all matters of racing tips and form and replies



Jean Grant, 2FC soprano and member of the Metropolitan Vocal Quartette.

**BURGESS—"THEY'RE ON THE 'LEVIATHAN'"—BATTERIES**



## Better Radio at Lower Cost

Substantial Reduction in Prices of

# PHILIPS RADIO VALVES

NOW OBTAINABLE EVERYWHERE AT FOLLOWING PRICES

D.406, The New Wonder Valve . . . . .	13/6
A.110, The One Coil Valve . . . . .	13/6
C.509 (C.507), The Improved 201A Type . . . . .	13/6
A.306 and A.310 The Improved 199 Type . . . . .	13/6
D.1 and D.4, The World's Best Detector . . . . .	7/0

All the above are obtainable in English or Standard American Cap.  
The A.306 and A.310 are also obtainable in 199 Cap.



to telephonic questions. He will be heard on Friday, 23rd April, at 9 p.m. and later in the evening the regular Travelogue talk will also be broadcast. This Friday evening is one of two regular dance nights and a splendid programme of dance music is promised which will be transmitted from Professor Bolot's Embassy Palais.

#### HUMORIST AND MONOLOGUIST.

On Saturday, 24th April, from the Studio of 2BL the Enmore Picture Theatre Orchestra will be transmitted. Miss Madge Helmrich, the distinguished contralto will be heard in items from her repertoire, and a male quartette will sing concerted numbers. Mr. Fred R. Gooch, humorist at the piano and monologist will also figure on the programme. Brings, the authority on the Australian Aborigines, who has been indisposed for some little time past, will make a welcome re-appearance in both bedtime stories and later during the evening.

#### WET V. DRY.

A previous announcement was made that a debate on the Effects and Enforcement of Prohibition in the U.S.A. would be started in the Studio of 2BL on the night of April 30th. It is now announced that the speakers will be Mr. J. M. Prentice who will speak in opposition to prohibition and deal with the impossibilities of its enforcement, while the benefits accruing from prohibition will be dealt with by the Hon. Crawford Vaughan, Ex-Premier of South Australia. With two such highly trained speakers the listeners-in will have an opportunity of hearing the relative value of prohibition discussed at considerable length. The period of debate will be from 9.15 to 9.45 each speaker being allowed ten minutes, with a further period of fifteen minutes for reply.

#### GHOST STORIES.

Lecturing items that are promised in the near future from the Studio of 2BL include a series of talks on the Romance of Coins and Coinage and also a thrilling series of Real Ghost Stories. In addition to these Mr. Fraser Anderson will resume his talks on "Astrological Aids to Character."

#### POLAR FLIGHT WITH WIRELESS.

High efficient wireless transmitters and receivers, together with direction-finding apparatus, are being carried on the semi-rigid airship "Norge," on which the Amundsen-Ellsworth Expedition Party are attempting to cross the Polar Ocean from Spitsbergen to Alaska. Transmissions during the flight will probably be on wavelengths of 450, 600, 900, and 1,200 metres.



#### THE IRON HORSE.

It is a well known fact that the Motion Picture Industry is a staunch advocate of extensive advertising. Producers and Managers are always searching for new means to advertise their pictures.

The Producers of the motion picture—"Iron Horse" decided to advertise the picture in a new and thrilling manner by placing on the under side of the wings of an aeroplane, an electrically lighted sign, lettered "Iron Horse" and for the plane to fly over New Jersey and New York at night.

The idea seemed so practical, that a plane was secured, the letters made, and 725 twenty-one candle power 12 volt bulbs were installed. At the last moment, however, it was found that the batteries provided were not capable of working properly, but the movie man happened to come into contact with a real live battery man, Billie Ziegler, Proprietor of the Patterson Storage Battery Company, who was called to meet the emergency, and rescued the stunt from oblivion by personally supervising and installing on the aeroplane standard PHILCO Batteries.

The pictures of this unique advertising stunt have been published in many of the New York papers.

#### From The Philco Retainer.

One of the most pitiful sights in the world is to see a Golf Fiend and a Radio Bug talking to each other.

The Golfer has to confine his fabrications to the links, but the Radio Bug has the whole world to lie about.

When a man buys a Super-Heterodyne, he has no regard for the truth whatsoever.

Archie Miller, in charge of the battery department for the MOTOR SHOP, Muncie, has a very serious complaint. He sold a man a Philco, who after many years willed it to his son. He says he might get a repeat order from the son, but that is too long to wait.

#### The Solemn Old Judge.

Radio enthusiasts recently voted George Dervay Hay, the "Solemn Old Judge" to be the world's most popular radio announcer. He is chief radio announcer of WLS, the Sears Roebuck Station in Chicago. Mr. Hay's popularity with the listeners in is due, not only to originality, for while he has this and plenty, he has one rule he always follows in announcing, which is "Never fail to broadcast a smile."

Mr. Hay is called "The Solemn Old Judge" because of the quaint dialect stories he wrote for an American paper called "The Commercial Appeal." (ADVT.)

# ! VALVES !

## LOOK AT THESE PRICES

	s.	d.
RADIOTRON: Standard UV201A and UV199 .....	13	6
RADEX: Standard 199 with Bakelite Base .....	9	9
PHILIPS B406: The New Wonder Valve .....	13	6
PHILIPS A110: The best one cell dull emitter .....	13	6
FOTOS: French dull emitter with English Base .....	8	6

Clients are advised that our Valves are all new and direct from factory, and before despatch are tested individually in the Jewel Checker. This is your protection.

WE GUARANTEE EVERY VALVE WE SELL TO BE FULLY UP TO STANDARD



**AMPERITES:** The Automatic filament Control. Use them in place of hand Rheostats. 201A or 199 Type .. . . . . 8/-

**CRYSTALS:** Molybdenite, 1/6; Russell's Hertzite, 1/6; Boxes of Assorted . . . . 1 3

Ask Mr. W. L. Hamilton about your Radio Problems, at our Sydney Store. Every Friday Evening.

**COUNTRY CUSTOMERS:**—We pay freight on goods to the value of 10/- and over, except on Batteries and Speakers.

— Avail yourselves of our Same Day Service —

"Yours for Lower Prices."

**The ECONOMIC RADIO STORES**

28 Royal Arcade

SYDNEY

Phone M 3049

569 Hunter St. West

NEWCASTLE

Phone, Newcastle 1622



# FROM HERE AND THERE

## JENOLAN CAVES TRANSMISSION.

Everything is well in hand for the Jenolan Cave transmission on Saturday 1st and Sunday 2nd May. The caves are being specially wired for the purpose and in conjunction with the Tourist Bureau, a party of 25 to 30 people will leave Sydney by special car on Saturday morning, arriving at the Caves in time to carry out the transmission in the evening. Over a dozen artists will be included in the party, and a programme will be given from the Caves House as well as from the Caves. Sunday morning's transmission will consist of description from the Caves and incidents broadcast from the official car en route to Sydney.

## MILITARY WIRELESS.

As the present Military year ends on June 30, the 1908 quota of trainees will commence their military training in the citizen forces on July 1. Any trainee interested in wireless who wishes to join the wireless section of the 1st Division Signals should communicate with Capt. R. H. Fry, C/o The Wireless Institute, Royal Society's Building, 5 Elizabeth Street, Sydney.

The 1st Division area comprises Balmain, Rozelle, Drummoyne, and all districts North of the Harbour.

Applicants should state their experience in wireless, speed in reading Morse Code and any other information relative to their application.

## D.X. ON A REFLEX.

In a letter to us, Mr. Thomas Gray, of Pyramid Hill, Victoria, states that one night after listening in on his one-valve Reflex circuit a peculiar occurrence took place. On turning out the valve, he was surprised to hear music from 3LO, which with a little adjusting came in very well indeed. After that he succeeded in getting 5CL, Adelaide, very clearly. Incidentally, 3LO, and 5CL are 150 and 750 miles respectively from Mr. Gray's address. After trying for and getting 2BL very clearly, he put together a crystal set in the space of half-an-hour and despite its rough state it brought in 3LO, 3AR, 5CL and 2BL. "2BL," he says, "comes in very clearly."

## BOUQUET FOR 3LO.

The Australian broadcasting stations continue to give pleasure to New Zealand listeners by their varied and attractive programmes. Having in mind the tonal qualities of the reproduced sound, the writer

favours the Melbourne station, 3LO. The transmission from this station on Good Friday of a performance by the Melbourne Philharmonic Society of Mendelssohn's oratorio "Elijah" was a veritable revelation of the possibilities of broadcasting. The performance of the five soloists, the choir of over 200 voices and the orchestra of 70, together with the technical perfection of the transmission, constituted the most perfect broadcast the writer has heard.—"Thermion," in the Auckland "Herald."

## HIGHER POWER.

A move towards higher power is to be made in Europe. Provided all parties are agreeable to the proposal, the estimated powers of the various stations will be in the vicinity of:—

Radio Belgique.. . . . .	10 K.W.
Radio Paris . . . . .	15 "
Milversum Holland . . . . .	30 "
Sweden (a new station).. . . .	30 "
Moscow . . . . .	25 "
Zurich . . . . .	12 "
Prague.. . . . .	5 "

## A COMPLAINT FROM RUSSIA.

In "Wireless Weekly" of November 27th, 1925, we published under the heading of Esperanto Notes the following comment upon wireless in Russia:—

"All the principal workers' clubs have wireless installations operating loud speakers, around which the Bolsheviks gather in serious vein to learn 'the language of the proletariat.'

"After all, Russia has a few redeeming features."

We have now been taken to task by Mr. A. Sevcov, editor of "Radio-Amatore," Moscow. In a letter to us he says:—

"About 'Esperanto Radio-News,' I wish to say that its ironical tone does not coincide with the reality. If workers' clubs are interested in radio, that does not mean that 'Bolsheviks' gather around loud speakers and only trouble about learning Esperanto. Workers assembling in the club hear cultured lectures and good music. In what manner does the Esperanto language concern us? It has not become a particular cult, although very many persons have become interested in it and predilect for it a great future in the elimination of the language barriers between the nations.

"Apparently you have no particular motive in stating that 'Russia has a few redeeming features,' as you know very little about us. Bolshevism for us

**BURGESS—"THEY'RE USED ON THE UNITED STATES AIRCRAFT"—BATTERIES**

## Phenomenal Tuning

Obtain Micrometer adjustment by using the "PREFERRED" Micrometer Vernier Dial, it is easily fitted to any type of condensers using 150" Dial. It improves the appearance of your Set. Provides the necessary vernier control so essential for long distance tuning. Exactly correct vernier action for the most delicate adjustment.



PRICE:  
10/6 each

PRICE:  
10/6 each.

Eliminates use of geared type of condensers. Runs true parallel to panel. Absolutely no back lash.

QUIET

20 to 1 RATIO

NO FRICTION NOISES

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**The Wondertone Home Construction Receiver**

Illustrated Catalogues and prices on application.

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THE EVER READY Radio Batteries are manufactured from the finest materials obtainable. Owing to the exceptional demands for Ever Ready B Batteries, we have new and fresh stocks arriving from the factory almost daily, and all Batteries are tested on a special testing instrument before dispatch.

**LARGE SIZE.**  
XP 50 volts . . . 16/-  
XP 40 volts . . . 21/-  
XP 60 volts . . . 31/6



**SMALL SIZE.**  
W.P. 30 volts . . . 9/6  
W.P. 40 volts . . . 12/6  
W.P. 60 volts . . . 18/-

Illustration of W.P. 40 B Battery.

All Ever Ready Batteries are supplied with Watdler Flow.

Ever Ready Grid Plus or "G"  
batteries, No. 126 with 2  
terminals giving 1½, 3, 4½ volts.  
2/6 . . . Each



Ever Ready "A" Batteries,  
Type L.T.S. with 3 terminals,  
giving either 1½, 3 or 4½ volts.  
12/- . . . Each.

Illustration of L.T.S. A Battery.

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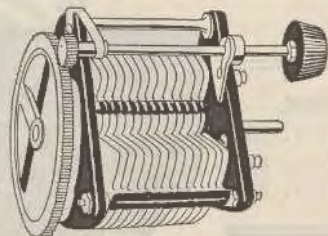
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and Adelaide.



## Balanced!

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General Radio Instruments are productions of efficient designing to give perfect performance in Radio Reception—we are the only Sydney store stocking a complete range of General Radio Requirements.

## Plates are soldered

General Radio Panel Mounting Type 247 Condensers represent the best balance between low conductivity, eddy current and dielectric losses that is consistent with efficient design and popular price. Plates are individually straightened, firmly soldered and in perfect alignment. High-grade, hard rubber end plates eliminates entirely eddy current losses. Contact spring bearings provide good connection—Rotor plates are counter balanced to permit smooth operation and accurate dial settings 4 types. Prices, 26/-, 30/-, 34/-, and 37/6

## DAVID JONES'

means freedom from the caprices of the bankers. We workers and engineers work for the common good, but not for commercial profits of special individuals. Bolshevism for us is the best way to progress, socially and otherwise. Really we have many historical and traditional hindrances of which you know nothing; but must this be held up for ridicule?"

(We hasten to assure Mr. Sevcof that there was no intention of holding Russian wireless enthusiasts up to ridicule. We have the highest admiration for the broadcasting system in use in that country, and have commented several times in these columns upon the wonderful use to which broadcasting, in spreading education and other benefits, is being put to in Russia.—Editor.)

#### WIRELESS IN RUSSIA AND SIBERIA.

Writing to us from Tomsk, Siberia, Mr. A. Kalzhechnikoff, a Russian wireless amateur, imparts some interesting information concerning wireless matters in that country:—

Despite the tremendous misfortunes in the recent past, he says, the memorable famine, war, and epidemics which invaded Russia, this country is not by any means far behind others in the field of radio.

A new era of wireless commenced in Russia in 1924, when the liberty of the ether was officially granted, and since that year the amateur radio movement has been growing in leaps and bounds. There are many broadcasting stations in the European parts of Russia, the most important one being Radio Komintern, in Moscow, which is a 16 K.W. station operating on 1750 metres, and which is listened to all over Europe, Russia, and Siberia. It is anticipated that in the near future Siberia will boast some new broadcasting stations, but up to the present broadcast listeners in this province have been depending upon the Moscow station or the British 5XX and 2LO, all of which can be received on either a one or two valve receiver. Up till recently transmitting licenses were not issued to amateurs, but the University of Tomsk, Siberia, has installed a transmitter which uses 300 watts and operates on 23 metres C.W. with excellent results. The call letters are TUK, and reports from Australia are looked forward to and would be keenly appreciated.

A regular feature of the transmissions from Komintern is the English lesson, which is followed by thousands of listeners who speak only their mother tongue.

The radio laboratory in Nijni Novgorod, Russia, plays a large part in radio research, and has recently made a 100 K.W. tube, which has been named in honour of Lenin, and in addition many good types of receiving tubes.

#### SOME MAST.

One of the tallest towers in the world—built exclusively for commercial radio purposes—has been completed for the German Ministry of Posts and Telegraphs at Koenigswusterhausen, near Berlin. Towering 923 feet above the ground, the triangular steel and aluminium structure falls only 56 feet short of equalling the Eiffel Tower in Paris. Including an aerial mast of 59 feet, however, the tower eclipses the Paris structure by 2 feet.

A spiral staircase of 1000 steps winds up to the top of the tower—a climb of half an hour. A one-passenger elevator, running in a tube 35 inches in diameter, makes the trip in 4 minutes. The whole structure weighs only 700 tons, one-tenth the weight of the Eiffel Tower, and cost approximately £20,000, exclusive of radio equipment. It is guaranteed to be earthquake and storm proof. A 20 kilowatt short wave sending station designed to serve the Far East is being built in a two-storey insulated cabin, on a platform 754 feet above the ground. The tower will be the binding post for 30 aeriels, leading to as many sending and receiving stations assembled at Koenigswusterhausen.

#### A GOOD ONE-VALVE.

A reader of "Wireless Weekly," Mr. J. M. Hopkins, of Townsville, Queensland, has been using the single valve regenerative receiver as described by "Insulator" in "Wireless Weekly" of November 21st, 1924, under the heading of "A Cheap Single Valve Receiver," and reports that he can receive 3LO, 4QG, 5UL, and a Japanese broadcasting station very clearly.

On account of hand capacity, Mr. Hopkins found that wonderful results were obtained by placing the variable condenser in parallel instead of in series. Considering that the set is home-made, as are also the honeycomb coils, these results speak volumes for the efficiency of the hook-up.

#### TRAIN RECEPTION.

What is probably a record in mobile wireless telephony reception is reported by the Canadian National Railways, whose trains have recently been equipped with broadcast receivers.

On a recent occasion when an express was travelling at a good speed about 1,000 miles west of Montreal, concerts were picked up from Lima (Peru) and Oakland (California).

LECLANCHE "B" BATTERIES. Glass Containers, 2½ x 1½ inches (with bottom), 7d. each. Glass tubes, 3 x 1½ inches, 5d. each, also zincs, etc., obtainable from A. E. GARRETT, 90 Renwick Street, Drummoyno.

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**D**ESIGNED for power amplification with large loud speakers. When inserted in last L.F. stage of receiver gives pure and abundant volume.

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Type D.F.A. 0 (.35 amp.) for 4 volt accumulator . . . . .	13/6
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Type D.F.A. 4 (.2 amp.) for resistance capacity circuits (6 volts).	13/6

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# Mullard

## THE MASTER VALVE

(Arks. 4.)

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# STATION 3CR

COBURG RADIO CLUB CALLING.

It gives us great pleasure to present Station 3CR to readers of "Wireless Weekly," as it is without doubt one of the most interesting and consistent little telephony stations to be heard anywhere in Australia, and we mean those last three words in the fullest sense, for it is not only "to be heard," but actually is heard all over the Commonwealth, from Perth to Darling Downs.

3CR has always been noteworthy because of the strength and good modulation of its transmission, although it secures these by the simplest means, coupled, of course, with a thorough knowledge of what is being undertaken. Nominally the station of Coburg Radio Club, 3CR, undoubtedly owes its fame to the expert manipulation and experimental skill of Mr. C. H. Bennett, in whose residence it is housed.

Dropping off the tram at a small side street in Brunswick, one notes above the first of a terrace of cottages a twin-wire inverted "L" aerial with an unusual crossover in the middle. It is only 50 ft. high and 47 ft. long, and made up of two 3/20 wires, but its insulation has been very well attended to, and beneath it is a four-wire fan counterpoise as well as a good earth, so it carries out its functions with less than the usual losses. In the adjacent lane the electric supply mains run parallel to it, yet the transmission is remarkably free from A.C. hum, owing to the effective device of the crossover referred to.

Inside the house, the front room, which is normally Mrs. Bennett's sitting-room, becomes the studio on 3CR nights, and, as will be seen in the photograph, the arrangements are simple, though highly effective, two post office type microphone picking up the sound and sending the electric pulses to a back room, in which is contained all the rest of the gear except the motor generator. The transmitter itself is a series-fed Hartley using a 5-watt oscillator with a motor generator for the plate supply.

The current from the studio microphone (or from the gramophone microphone seen toward the centre of the photograph) passes through a two stage amplifier of Mr. Bennett's construction, being led thither (in the case of the studio items) by a twin-lead covered cable brought in over the ceilings. The business part of the gramophone is a first-class job, although the nearest approach to a mahogany cabinet is made from an old packing case. The purity of the gramophone music delivered certainly conveys no idea of the roughness of its mounting.

The receiver used by Mr. Bennett is a two-valve Reinartz as described in "Wireless Weekly" for June 25th last year, and Mr. Bennett says it has given wonderful results. In fact, there is quite a lot about 3CR that gives wonderful results, due no doubt to the untiring zeal and energy of its station manager and announcer, who has in his time played many parts, all of them with distinction, his abilities ranging from manager of a picture theatre to electrical engineer in charge of X-ray installations. Although not in the photographs, mention is certainly due also to Mr. C. H. Bennett's wife, whose soprano voice of a very pleasing quality is often heard from the studio of 3CR, her singing of "Heart's Desire" recently having been mistaken by many listeners-in as a particularly good gramophone record of Gladys Monerleff.

The peculiar conditions of amateur broadcasting necessitates the most unruly hours for 3CR devotees, who are often heard till after 1 a.m. and still going



3 CR. Staff

BURGESS—"THEY'RE ON THE SPEEJACKS"—BATTERIES



Why not have "Wireless Weekly" mailed direct to your home regularly every week?

The subscription rate is 13/- the year post free.

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## HOWELL'S SALE & EXCHANGE

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

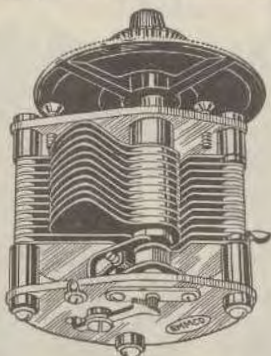
	s.	d.
"Jefferson" 41 Transformers . . . . .	20	0
"Ediswan" Transformers . . . . .	15	0
30 ohm Rheostats . . . . .	2	9
Egg Insulators, per doz. . . . .		6
Bull Nose Insulators, per doz. . . . .	3	0
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Double Jack . . . . .	2	0
7-22 Aerial Wire, per 100 feet . . . . .	3	0
3 inch dials, each . . . . .		9
Standard 201A Sockets . . . . .	1	6
3 Coil Holder . . . . .	7	6
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.00025 Straight Line Frequency Low Loss Transformers . . . . .	11	6

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Built like a Watch.

Most Minute Adjustment.

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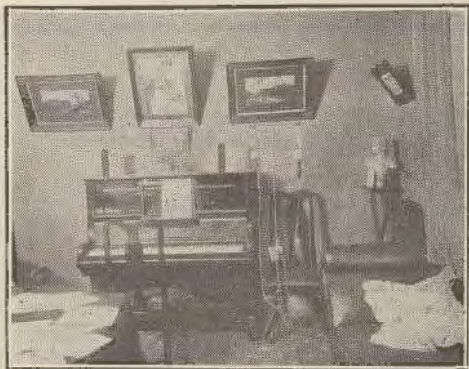
Grounded Rotor Metal End Plates.

Straight Line Wave Length. Square Law.

Most up-to-date Low Loss Condenser Made.

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

SEE THEM AT YOUR DEALERS



3 CR. Studio

strong. Owing to these late hours no doubt 3CR commands a much smaller audience than it certainly merits, but anyone who searches on coils 25 or 30, 50, 50 somewhere about 210 metres will be rewarded with very consistent results from this fine station on Wednesdays and Sundays after 3LO shuts down.

In the photo of the staff the back row from left to right are as follows: Mr. T. E. Evans (3RK), mechanic; Mr. G. T. Davies, operator; Mr. C. Murdoch, studio manager. In the front row, from left to right: Mr. E. Donnelly, assistant operator; Miss I. Clark, typiste; Mr. C. H. Bennett, station engineer and announcer.

Amongst other artists on the programme is Mr. A. W. Clark, who was the winner of 3LO's Radio Voice Contest (humorous section). The programme given on 27/1/26 was given by the members of the Southern Choral Society, who are consistent competition winners. Mr. Graham Burgin is the well-known conductor of the above society. One gentleman, Mr. Stephen MacDonald, who consistently helps 3CR with items and accompaniments, is one of Melbourne's leading entertainers, and is at present broadcasting lectures from 3AR. 3CR has also had help from a number of artists who also perform at the "A" class broadcasting stations.

This station, 3CR, has been heard working on 200 metres all over Australia, and is consistently reported from Leaderville (suburb of Perth, W.A.) by Mr. C. Hatswell, who is using detector and one stage of audio. It also has a report from Muckdilla, Queensland, that they get 3CR on loud speaker strength using three valves.

## A Coupled Crystal Receiver

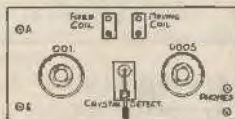


FIG. 1.

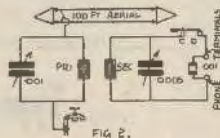


FIG. 2.

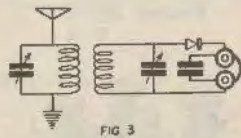


FIG. 3

This simply constructed set is designed to eliminate local interference of Morse from broadcasting. It has been successfully operated in the near vicinity of the principal Morse stations and is submitted by the Mechanical Staff handling the

"Can we Help You?" Monday night talks from 2FC.

Fig. 1 shows the panel arrangement, Fig. 2, the pictorial circuit, and Fig. 3, the circuit diagram.

### FARMERS AND WIRELESS.

The Sears Roebuck Agricultural Foundation, at Dallas, U.S.A., recently sent out a questionnaire to farmers in Texas, Oklahoma, and Louisiana asking them to name the benefits received from the broadcast agricultural reports.

Five hundred replies were received, of which 163 listeners stated that the wireless service had saved them money each year, the average saving being nearly £30 per family.

### PROGRESS IN SWEDEN.

Although about 120,000 receiving licenses were issued in Sweden during the past year, it is considered that the possibilities of wireless as yet have hardly been touched. The Royal Swedish Telegraph Administration has recently issued a report in which it is recommended that a new broadcasting station should be established in the centre of the country, and so provide a wireless service to a greatly increased number of people.



# Supertran "Mica Insulated" Audio Transformers



**Supertran 25/- each**

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

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



**FMC 18/6 each**

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## Type 51, 30/-

The Orthophonic Transformer.

Ratio, 5 to 1 only

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## IGRANIC TONE CONTROL AND DAMPING RESISTANCE.

The resistance value of this component has been specially determined, and is extremely suitable for use as a "tone control" or to cut down volume when receiving from a nearby broadcasting station, obviating the necessity of mistuning the receiver or dimming the amplifier filaments, in which case, the probability of interference and distortion which may be caused by resorting to these means, is eliminated.

It is also specially suitable for use as a damping resistance to increase stability in a valve receiver, in which case it may be connected in shunt with a tuned anode coil.

The Igranic Tone Control and Damping Resistance provides for a smooth and continuous variation of resistance between minimum and maximum values, ensuring a gradual and even control of tone or volume under varying conditions. For this purpose the resistance is connected across the secondary of the low frequency transformer. It will be found exceptionally reliable and constant in operation.

The conducting parts of the Igranic Tone Control and Damping Resistance are well separated from the control knob, thus eliminating hand capacity effects.

Single hole fixing is provided for.

Wholesale Agents, Noyes Bros. (Sydney), Ltd.

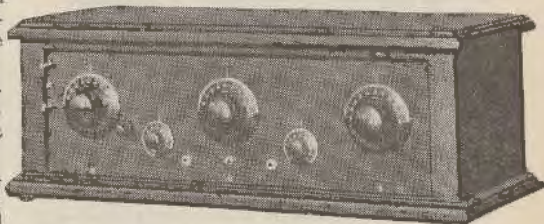
## MEGGIT RESISTORS.

Messrs. Parsons and Whittemore Ltd. are handling a new product known as the Meggit Resistor, which is described as a hand-made laboratory product. Moisture, which causes decided changes in the resistance of an element from day to day, has been entirely expelled by a special extraction process and is kept out of the resistor permanently by the metal hermetic seal at each end of the glass tube. The contacts at each end of the resistor strip are made by the metal as it shrinks on cooling, exerting a powerful force. This produces a perfect connection. The interior construction is easily seen through the glass tube, and it is claimed that the Meggit Resistor performs the same in any clime. These resistors are specially useful in resistance coupled amplifiers.

## THE SUPER-FIVE.

The Super-Five receiver, designed and constructed by Keogh Radio Supplies, embodies all round efficiency of reception with simplicity of tuning and a very fine appearance.

In receiving local and interstate stations either on an aerial or loop, this receiver demonstrates



its capabilities in producing excellent loud speaker volume without the slightest trace of interference, and with an excellent tone. Although designed primarily, for expert performance on the lower wave stations, an additional attachment used in conjunction with this receiver enables it to bring in the transmissions of 2FG with surprising volume.

## BOOMING BOOKS BY BROADCAST

The Duchess of Atholl mentioned this fact at that the demand for books is increasing to an embarrassing extent as a direct result of broadcasting.

The Duchess of Atholl mentioned this fact at a farewell meeting to South African students of the London University.

"If," said the Duchess, "one of those wonderfully eloquent speakers whom the British Broadcasting Company seem to have at its beck and call mentions a book overnight, the library is flooded out next day by people coming to ask for it."

## A MISSION STATION.

A broadcasting station as powerful as 1LO is being constructed by a London amateur to enable Mr. Arthur Cook, a British missionary in Iceland, to preach to his "parishioners" in the remotest parts of the island, where the rigours of the weather make travelling difficult.

USED BY THE NAVY DEPARTMENT—BURGESS DRY BATTERIES



**AN OCEAN NEWSPAPER.**

Time was when the passenger embarking for a voyage across the foam bade farewell to the outside world and gave himself up to an uneasy contemplation of a Riatus so far as the day by day events were concerned. To one accustomed to following up affairs in the daily press, and especially the busy man to whom the prospect of being out of touch is particularly uninviting, the sea voyage, aside from its health building aspects, was at one time productive of periods of extreme boredom. The gossip of fellow-passengers loses interest after awhile. What one wants is news of what's going on outside; what's happening in Turkey or Oodnadatta or Melbourne.

Travellers on the intercolonial passenger steamers and on the Trans-Pacific Mail liners no longer feel themselves out of things, because every morning they get their morning paper, just as they did on dry land.

The paper is "The Wireless News" issued and published aboard these steamers by The Wireless Press, Sydney. The copy we have before us represents a very good production, indeed, and one that should gladden the heart of any passenger.

From cover to cover it is crammed full of interesting matter. News of the theatres, tourist information, snappy pars from here and there, shipping items, and complete pages of news received by wireless while passengers are asleep in their bunks—all these go to make up one of the most attractive papers we have seen.

**WIRELESS DEVELOPMENTS IN POLAND.**

Increased activity in the wireless trade prevails in Poland, and a broadcasting station, which will be used for disseminating material supplied by the University of Krakow, will be erected in that city in the near future. It has also been announced that a concession has been granted to a former Prime Minister, in conjunction with the Polish electrical firm Siba and Swiatlo, in which foreign capital participates to a considerable extent to build a broadcasting station and to manufacture and sell wireless apparatus. The combination will also take over the Government factory manufacturing telegraph and telephone apparatus.

**ONE IN THREE.**

That one of every three families in New York City owns a wireless receiver is shown by the latest survey of the U.S. radio trade. In other parts of the United States the proportion is one in five.

**CZECHO-SLOVAKIAN WIRELESS BOOM.**

In Czecho-Slovakia there are now more than 32,000 licensed broadcast listeners. The inauguration of the Stranice station has been responsible for a big increase in the number of licensees.

# Sale of Surplus Stock

## Winding Wires at Bargain Prices

### S. S. C.

WIRE, 2 oz. reels, 20 gauge 3d. reel, 21 gauge 3½d., 22 gauge 4d., 23 gauge 4½d., 24 gauge 5d., 25 gauge 5½d., 26 gauge 6d., 28 gauge 7d., 29 gauge 7½d., 30 gauge 8d.  
16 gauge 4 lb. reels, 8/-; 7 lb. reels, 14/-; 18 gauge 4 lb. reels, 10/-; 20 gauge 4 lb. reels, 11/-; 22 gauge 1 lb. reels, 3/-; 24 gauge 1 lb. reels, 3/6; 4 lb. reels, 13/6; 29 gauge 1 lb. reels, 4/6; 31 gauge 1 lb. reels, 5/-; 32 gauge 1 lb. reels, 5/3; 36 gauge 1 lb. reels, 8/-; 38 gauge ½ lb. reels, 4/6; 39 gauge 1 lb. reels, 10/-; 48 gauge ½ lb. reels, 18/-.

### D. S. C.

WIRE, 2 oz. reels, 20 gauge 3½d., 21 gauge 4d., 22 gauge 4½d., 23 gauge 5d., 24 gauge 5½d., 25 gauge 6d., 28 gauge 8d.  
10 gauge 4 lb. reels, 10/-; 18 gauge 4 lb. reels, 12/-; 20 gauge 4 lb. reels, 14/-; 28 gauge 4 lb. reels, 20/-; 38 gauge ½ lb. reels, 7/6; 1 lb. reels, 14/-; 46 gauge ½ lb. reels, 19/-; 48 gauge ½ lb. reels, 40/-.

Also numerous other items of interest to home constructors.

## On View

Basement

# Amalgamated Wireless

(A'SIA) LIMITED

97 CLARENCE STREET, SYDNEY.

Address all mail orders to Dept. F.

## BRITISH BROADCASTING COMMITTEE.

In "The Wireless Trader" of March 10th, 1926, is published a summary of the recommendations of the British Broadcasting Committee. Among a host of other items, the following are of particular interest:—

That the corporation should be known as the "British Broadcasting Commission"; that it should consist of not more than seven or less than five commissioners, all nominated by the Crown, the first commissioners to hold office for five years; that the commissioners should be persons of judgment and independence, free of commitments, with business acumen and experienced in affairs; that one of the commissioners might, if thought desirable, be one of the existing members of the British Broadcasting Company; that the commissioners should have the power to appoint an executive commissioner with a seat on the board; that all commissioners should be adequately remunerated.

That the entire property and undertaking of the British Broadcasting Company as a going concern should be vested in the commission on the 1st January, 1927; that all existing contracts and staff of the British Broadcasting Company should be taken over by the new commission.

That the commissioners should be entitled to all the ordinary rights as regards the use of copy-right material—whether in news or otherwise—and that it is unnecessary to invest them with any special privilege or preference.

## A COLOSSAL SCHEME.

In a recent statement, Capt. P. P. Eckersley, chief engineer of the British Broadcasting Company, declared, in relation to future European broadcasting:—

"If I had supreme power, I could take Western Europe and erect 101 stations of not less than 25 kilowatts (many of 50 kilowatts), and I would site them to serve the maximum number of Europeans. I would then repeat the wavelengths of Northern Norway in Alexandria, Cairo, Khartoum, etc., and I would have very fine methods of calibration. I could repeat the Spanish wavelengths on the Steppes of Russia, and Siberia should repeat Cardiff.

"But I have not supreme power, and it is impossible to expect at present that the sacrifices, funds and pooling of interests necessary for this scheme will go forward. We need a compromise in order to allow national organisations to develop in the way that gives them the greatest individual scope, while not interfering with others who have an equal right to facilities."



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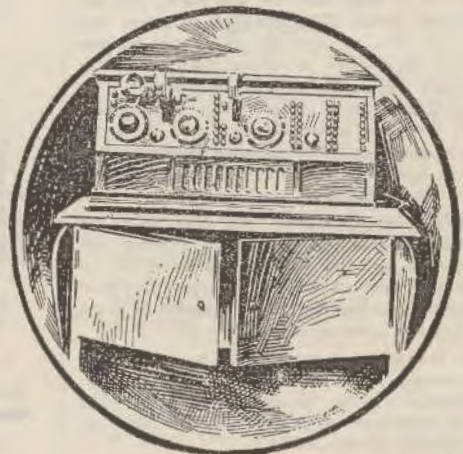


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# Broadcasting



## 40G

### QUEENSLAND RADIO SERVICE.

Wavelength, 885 metres.

FRIDAY, APRIL 23.

#### 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—From the Tivoli Theatre, by courtesy of the directors of Haymarket Theatres Ltd., a programme of music by the Tivoli Operatic Orchestra will be relayed from the Tivoli Theatre.

3.50—From the Studio—Soprano solos: (a) I Wonder if Love is a Dream (Paster), (b) Oblivion, Mrs. Robert Bell.  
 4.—From the Tivoli Theatre—Orchestral Music.  
 4.10—From the Studio—Baritone solos: (a) Call Me Back Pal of Mine, (b) Garden of Tomorrow, Mr. Gerald Cashman

7.—The Farmers' Session — Market Reports. Address; Building up of Queensland Industries, Mr. L. R. McCregee (Director Queensland Producers' Association)

#### Night Session.

7.45—Lecture Session—A Talk arranged by the Workers' Educational Association. The Paramount Entertainers.  
 8.—An Entertainment by "The Paramount Entertainers" (under the leadership of Mr. W. C. McGrath).  
 9.55—"The Daily Mail" News Service.  
 10—Close down.

#### SATURDAY, APRIL 24.

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

#### Night Session.

Studio Programme and Lennon's Ballroom.  
 8.—Studio Concert.  
 8.10—"Granny's Juliet"—A One Act Play by Radio.  
 8.30—Studio Concert.  
 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.  
 8.55—Announcements.

9.—From Lennon's Ballroom—Ten Minutes music by Miss May Dobbin's New Regal Orchestra. From the Studio—Studio Concert.  
 From Lennon's Ballroom—Ten Minutes music. From the Studio—Studio Concert.  
 From Lennon's Ballroom—Ten Minutes music. From the Studio—Studio Concert.  
 10.30—From the Studio; The Sunday Mail News Service; Close down.

#### SUNDAY, APRIL 25.

#### Morning Session.

The complete morning service will be relayed from the Ann Street Presbyterian Church.  
 12.30—Close down.

#### Afternoon Session.

Anzac Day Procession. Arrangements have been completed for the Anzac Day procession to pass the executive Buildings in George St., Brisbane. A microphone will be mounted on the balcony and the procession described by an announcer stationed there. The music of the bands and the marching of the troops will be repeated by this microphone and broadcast.  
 3.15—Tune-in.  
 3.29 (approximately).—Description of procession.  
 3.45—Close down.

#### Anzac Day Celebrations.

By arrangement with the Returned Sailors and Soldiers' Imperial League of Australia the special Anzac Day Celebrations will be broadcast from the Brisbane Botanical Gardens. The actual time of starting depends upon the time at which the procession reaches the gardens. It is expected however, that it will be about 4 o'clock. Announcements regarding the exact time at which it is expected to commence will be broadcast during the description (referred to above).  
 4.—From the Botanical Gardens — Anzac celebrations.  
 5—Close down.

#### Night Session.

The complete evening service will be relayed from the Ann Street Presbyterian Church.

#### 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.

#### MONDAY, APRIL 26.

#### Market Reports.

1.30—Close down.  
 3.25—Tune-in.  
 3.30—From the Tivoli Theatre—by courtesy of the Directors of Haymarket Theatres Limited a programme of music supplied by the Tivoli Operatic Orchestra (under the patron of Mr. E. Graves) will be relayed from the Tivoli Theatre.  
 3.45—Music from the Studio.  
 3.55—From the Tivoli—Orchestral Music.

4.10—Music from the Studio.  
 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"  
 7.20—News Service supplied by "The Telegraph."  
 7.30—Close down.

#### Night Session.

7.45—Lecture Session—Machinery Correct Lubrication, Talk No. 2, by "Gargoyle."  
 Studio Concert—South Brisbane Orchestra.  
 8.—Studio Concert.  
 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.  
 8.55—Announcements.  
 9.—From the Band Room—An hour's music by the South Brisbane City Orchestra under the leadership of Mr. J. W. Ferguson.  
 10—"The Daily Mail" News Service; National Anthem by 40G Artists. Close down.

#### TUESDAY, APRIL 27.

#### Midday Session.

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

#### Afternoon Session.

3.25—Tune-in.  
 3.30—Music from the Studio.  
 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; Lectures—The Functions of the Department of Agriculture and Stock, Mr. E. Graham (Under-Secretary for Agriculture).  
 7.20—"The Telegraph" News.  
 7.30—Close down.

#### Night Session.

7.45—Lecture Session—Popular Science Talk No. 1 by Mr. F. O'Donnell.  
 The 40G Concert Orchestra.  
 8.—Studio Concert.  
 8.50—Weather Information officially supplied by the Commonwealth Weather Bureau.  
 8.55—Announcements.  
 9.—Studio Concert.  
 9.00—F. from the Centennial Hall—By courtesy of the Lessee, half an hour's dance music by the Centennial Hall Orchestra will be relayed from the Centennial Hall. Note: During the interval between dances, broadcast from the Studio of 40G.  
 9.55—"The Daily Mail" News Service.  
 10—Close down.

#### WEDNESDAY, APRIL 28.

#### Midday Session.

12.55—Tune-in signal.  
 1.—Market reports supplied by the Com-



# FERRANTI

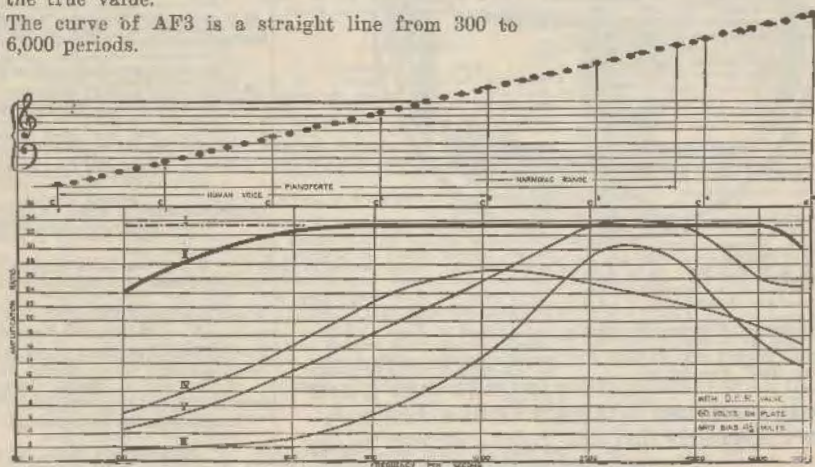
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oil of Agriculture; Stock Exchange information supplied by the Committee of the Brisbane Stock Exchange; weather information supplied by the Commonwealth Weather Bureau; "Daily Standard" news service.

1.30—Close down.

Afternoon Session.

3.25—Tune-in.

3.30—Music from the Studio.

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. Lectures—The Value of Herd Testing by Mr. C. McGrath (Chief Dairy Supervisor).

7.20—"The Telegraph" News.

7.30—Close down.

Night Session.

7.45—Lecture Session—Tourist Talk; See Brisbane First, by Mr. Reid (Brisbane Tourist Co.)

An English Entertainment.

The night's programme will be composed of English Music.

8—English Entertainment.

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

8.55—Announcements.

9—English Entertainment.

9.30—From the Tivoli Theatre—By courtesy of the Directors of Haymarket Theatres Ltd., half an hour's music by the Tivoli Operatic Orchestra (under the baton of Mr. C. Groves) will be relayed from the Tivoli Theatre.

10—"The Daily Mail News Service; Close down.

THURSDAY, APRIL 29.

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.

1.30—Close down.

Afternoon Session.

2.55—Tune-in.

3.00—Music from the Studio.

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. Lectures—The Mission of Agricultural High School and College, by Mr. J. B. Murray (Principal, Agricultural College).

7.20—"The Telegraph" News.

7.30—Close down.

Night Session.

7.45—Lecture Session—A Talk on Literature by Mr. W. A. Braden (McLeod's Bookstore).

Studio Programme and Band Recital.

8—Studio Programme.

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

8.55—Announcements.

9—Studio Programme.

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.

## 2BL

BROADCASTER (SYDNEY) LTD.  
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FRIDAY, APRIL 23.

Afternoon Session.

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

3.15—Music from the Studio.

3.30—G.P.O. Clock and Chimes; 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.

4.05—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.

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.

Dance Night by Professor Botta's Embassy Jazz Orchestra under the direction of Mr. S. Bennett broadcast from Embassy Palais.

Round the World Travogueue by Mr. J. M. Prentice, O.C.B., C-de-C.

SATURDAY, APRIL 24.

Afternoon Session.

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

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

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

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

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

7—A Talk to the Kiddies by "Birin-ga."

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

Evening Session.

8—From the Studio: Fred R. Gooch, entertainer at the piano; Madge Helmsler, Contralto; Male Quartet. Brings will speak about the Aborigines. Jimmy Eklis's Jazz Band Broadcast from the Cabaret, The Duggowans, Manly.

SUNDAY, APRIL 25.

11—Anzac Day United Commemoration Service.

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

7.15—St. Thomas' Church of England, North Sydney; Rector: Rev. R. N. Baker, M.A.

8.30—From the Studio: Orchestra and Operatic Concert featuring Broadcasters' Miniature Orchestra; Leonora Cotich, coloratura soprano; Leslie MacCallum, baritone.

MONDAY, APRIL 26.

Afternoon Session.

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. Ramoni.

4.45—Music from the Studio.

4.55—Late Market Reports from The Sun.

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

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

Early Evening Session.

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

6.30—Sporting Resume from Sun Newspapers; Uncle George and the Kiddies.

7.30—"What's On," a guide to the visitors and citizens of Sydney.

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

7.50—Close down.

Evening Session.

Anzac Day Concert broadcast from Town Hall, Sydney. Hon. Wm. Morris Hughes, Presiding.

TUESDAY, APRIL 27.

Afternoon Session.

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

3.15—Music from the Studio.

3.30—G.P.O. Clock and Chimes.

3.45—Music from the Studio.

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

4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.

4.45—Music from the Studio.

4.55—Late Market Reports from The Sun.

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

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

Early Evening Session.

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

6.45—Broadcasters' Dinner Orchestra.

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

7.50—Close down.

Evening Session.

The opera "Maritana" (Wallace) under the direction of Mr. Roland Foster. Miss Helen Jean Berging will speak on "The Countess—Los Angeles to France" and Mr. H. E. Crable on "The Story of Civilization No. 3—The Origin of Civilization."

WEDNESDAY, APRIL 28.

Afternoon Session.

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

3.15—Broadcasters' Trio.

3.30—G.P.O. Clock and Chimes; Special Operatic Talk by Mr. J. M. Prentice.

4—G.P.O. Clock and Chimes; Broadcasters' Trio.

4.30—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramoni.

4.45—Broadcasters' Trio.

4.55—Late Market Reports from The Sun.

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

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

Early Evening Session.

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

6.30—Sporting Resume from Sun Newspapers; Uncle George and Uncle Jack with the Kiddies.

7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land



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and Finance Company.  
7.50—Close down.

## Evening Session.

Hoyt's Imperial Orchestra under the direction of Mr. Lionel Hart, broadcast from Hoyt's Theatre. From the Studio: Sketches by Miss Leah Freedman and Mr. Harold Cohen; Robert Harper, tenor. Mr. J. M. Prentiss will speak on Foreign Affairs and reply to any telephone question on the subject.

## THURSDAY, APRIL 29.

## Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Reports and Social Notes from The Sun.

3.15—David Jones' Tea Room Trio.

3.30—G.P.O. Clock and Chimes;

3.45—Music from the Studio.

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

4.15—Music from the Studio.

4.30—G.P.O. Clock and Chimes; Serial Story entitled 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 Items 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 Ltd and Finance Company.

7.50—Close down.

## Evening Session.

From the Studio: Miss Milla Haglund, soprano and Mr. Raymond Dooty, basso cantabile; Reg. Harrison, comedian.

## 2KY

## WEEKLY BROADCASTING PROGRAMME.

## TRADES HALL.

Call Sign, 2KY. Wavelength, 280 metres.

## FRIDAY, APRIL 23.

## Afternoon Session.

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

## Children's Hour.

6.30—The Man in the Moon.

## Evening Session.

7.45—Latest News Items; Miss Esme Dhill, I.L.C.M.; Mr. A. J. James, baritone; Mr. Board, Technical Designer of 2KY, Wireless Lecturette; Miss Ivy O'Neill, contralto; Mr. J. Fahy, tenor; Mr. David Edlesteu, Monologues; Annie Addison's String Orchestra; Miss Edith Welsh, soprano.

## SATURDAY, APRIL 24.

## Evening Session.

7.35—Latest news items and Sporting Results; Mr. J. O'Sullivan, baritone; Lecturette, Hints on Motors; Mr. W. H. Burgess, Mr. Frank Redman, Monologues; Lecturette; Labor Legislation; Mr. J. C. Eldridge; Mr. Robertson, baritone; Nellie O'Sullivan (Dramatic Scenes), and others to be announced. 2KY will be closed on Anzac Day, Monday, 26th April, 1926.

## TUESDAY, APRIL 27.

## Afternoon Session.

2.30—A varied musical and vocal pro-

gramme will be transmitted, closing down at 4.45 p.m.

## Children's Hour.

6.30—The Man in the Moon.

## Evening Session.

7.45—Latest News Items: Miss Dorriington, soprano; Cec. Morris and His Bluebirds' Jazz Band; Lecturette; Organic Evolution, Mr. Geo. F. Manuel; Miss Zara Nilsson, soprano; Lecturette, Mr. R. V. Marikam; Are You an Ostrich; Flute Solos, Mr. Lea. Sproule; Mr. McDougal, pianist; Steel Guitar; Mr. David Lloyd, guitarist; Mr. A. Jamieson, tenor; Miss Maizie Carrall, soprano.

## WEDNESDAY, APRIL 28.

## Afternoon Session.

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

## Children's Hour.

6.30—The Man in the Moon.

## Evening Session.

7.45—Latest News Items; Miss Eileen Charters, soprano; Miss Dean, Pianiste; Lecturette, International Topics, Industrial and Political, Mr. J. S. Gardner; Mr. R. Webster, baritone; Mr. Percy Brown, monologue; Mr. Sullivan, tenor; Miss Thompson, soprano; Miss Lily Wallace, whistler; Lecturette, subject to be announced, Rt. Rev. G. A. Arundale.

## THURSDAY, APRIL 29.

## Afternoon Session.

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

## Children's Hour.

6.30—The Man in the Moon.

## Evening Session.

7.45—Latest News Items; Miss 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; Miss Philomena O'Connor, soprano; Miss Evelyn Sheehy, Monologues.

## 5CL

## CENTRAL BROADCASTERS LTD.

Call Sign, 5CL. Wavelength, 395 metres. Input, 5 K.W.

## FRIDAY, APRIL 23.

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

11.31—Featuring a Stock Duo Art number.

11.40—"Advertiser" News Service.

12—G.P.O. Chimes.

12.1—News and Cable Service.

12.16—Featuring a Stock Duo Art number: The 5CL Studio Orchestra Overture; cornet solo; fox trot; waltz; violin; recorder; mandolin; waltz; violin solo; solo; flute.

1.35—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 Intelligence 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 Mrs. L. Mathews, I.A.B., and Miss Olive Lyons, F.T.C.L., I.A.B.

9—G.P.O. Chimes.

9.1—Weather Reports.

9.3—Studio Concert—continued.

10.1—Studio Concert—continued.

10.15 approx.—Advertiser News Service.

10.30—Station Announcements; National Anthem.

## SATURDAY, APRIL 25.

Selection; 'cello solo; fox trot; waltz; solo; Tenor solo (Froma Rose Marie); record solo; waltz; finale; selection.

## 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.

9—G.P.O. Chimes.

9.1—Weather Reports.

9.3—Studio Concert—Continued.

10.1—Studio Concert—continued.

10.2—"Advertiser" News Service.

10.30—Station Announcements; National Anthem.

## SUNDAY, APRIL 25.

## Morning Session:

Special Anzac Service.

## Afternoon Session.

Special Anzac Service.

## Evening Session:

6.30—G.P.O. Chimes.

6.31—Bedtime Stories for the Children.

6.55—Special Anzac Service.

8—Studio Concert. Station Announcements. National Anthem.

## MONDAY, APRIL 26.

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

11.30—G.P.O. Chimes.

11.31—Featuring a Stock Duo Art number.

12—G.P.O. Chimes.

12.1—News and Cable Service.

12.16—Featuring a Stock Duo Art number: 5CL Studio Orchestra will play: Overture; cornet solo; fox trot; waltz; violin; one step; recorder; violin solo; waltz; finale.

1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.

2—G.P.O. Chimes.

## Afternoon Session. (3 to 5).

3—G.P.O. Chimes.

3.1—Relay from Maple Leaf Cafe; Orchestral numbers.

3.45—Broadcast from Studio; Serial Story.

4—G.P.O. Chimes.



- 4.1—Broadcast from Arcadia Cafe; Orchestral numbers.  
4.55—Stock Exchange Reports, General Information and Station Announcements.  
5—G.P.O. Chimes.

Evening Session (6.30 to 10.30).

- 5.30—G.P.O. Chimes.  
6.31—Bedtime Stories for the Children.  
6—G.P.O. Chimes.  
8.1—Studio Concert arranged by Miss Sylvia Thomas.  
8.20—Arcade stories from "Dinkum Oil" by "Trinkler."  
8.40—Studio Concert—continued.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.5—Studio Concert—continued.  
9.10—Talk on Photography, arranged by Harrington, Limited.  
9.20—Studio Concert—continued.  
10—G.P.O. Chimes.  
10.1—Studio Concert—continued.  
10.45—Station Announcements; To-morrow's Programme; National Anthem.

TUESDAY, APRIL 27.

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

- 11.30—G.P.O. Chimes.  
11.31—Featuring a Stock Duo Art number.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.16—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play; Selection; cello solo; noisette; fox trot; suite; one-step; romance; Little Gelsa Girl, from "Yvonne"; 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.  
5.1—Broadcast from Arcadia Cafe; Orchestral Numbers.  
5.55—Stock Exchange Reports, General Information and Station Announcements.  
6—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—Physical Culture Talk by Mr. Noel H. Hubble.  
8—G.P.O. Chimes.  
8.1—Studio Concert.  
8.30—Gookey Talk arranged by S.A. Gas Co.  
8.40—Studio Concert.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.5—Studio Concert.  
10—G.P.O. Chimes.  
10.1—Studio Concert.  
10.35—"Advertiser" News Service.  
10.50—Station Announcements; National Anthem.

WEDNESDAY, APRIL 28.

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

- 11.30—G.P.O. Chimes.  
11.31—Stock Duo Art and Aeolian Vocalion Records.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.16—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play; overture; cornet solo; fox trot; Andante Symphony Pathétique; selection; instrumental trio; one step; waltz; finale; selection from the opera.  
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—Copey Lectures, Rev. Harold Ciles.  
8—G.P.O. Chimes.  
8.1—Studio Concert arranged by Miss Sylvia Thomas.

- 8.30—Science lecture arranged by Messrs. F. H. Faulding & Co.  
8.40—Studio Concert—continued.  
9—G.P.O. Chimes.  
9.1—Weather Reports.  
9.5—Studio Concert—continued.  
10.1—Studio Concert—continued.  
10.25—"Advertiser" News Service.  
10.40—Station Announcements; National Anthem.

THURSDAY, APRIL 29.

- 11.30—G.P.O. Chimes.  
11.31—Featuring a Stock Duo Art number.  
11.40—"Advertiser" News Service.  
11.55—Vocalion Number.  
12—G.P.O. Chimes.  
12.1—"Advertiser" News Service.  
12.16—Featuring a Stock Duo Art number; 5CL Studio Orchestra will play; Selection; fox trot; violin solo; Star of the East (From "Yvonne"); waltz; Non-pollan nights; 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 by Mr. A. M. Whittembury.  
7.30—Market Reports.  
7.40—Poultry Talk by Mr. A. M. Whittembury.  
8—G.P.O. Chimes.  
8.1—Studio Concert arranged by Miss Linda Wald.  
Approx.  
10.15—"Advertiser" News Service.  
10.30—Station Announcements; National Anthem.

# RADIO SET ON TIME PAYMENT

COMPLETE READY FOR USE

at Prices and Terms to suit every pocket

Simple, Selective & Efficient.

	£	s.	d.
3 Valve Sets..	15	12	6
3 Valve Sets..	21	10	0
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"Udisco" Super			
Six..	110	0	0
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TERMS:

10 p.c. Deposit; balance in twelve months.

KEDGH RADIO SUPPLIES

503 GEORGE STREET, opposite Crystal Palace.  
TELEPHONE CITY 870.

**ONE ON THE SCOTCH.**

At last someone has found a way of putting one over on the Scotch.

There has been a gigantic round-up of unlicensed set owners in Aberdeen, Scotland. According to an authentic report, 600 summonses have been taken out against Aberdonians suspected of having radios without a license.

We are in a position to deny the rumour that the majority of the pirates in Australia are of Scotch extraction. A Scotchman never takes a risk.

**WHO IS HE?**

It has been the policy of the B.B.C. of late to broadcast short talks by quite a few well known comedians, and the idea seems to have met with complete success. The other day, George Graves, known by practically every one in England (there are exceptions, as the following story relates), consented to broadcast from 2LO. The usual sheaf of letters arrived on the morrow—letters of appreciation—but George Graves felt like firing his publicity agent when he read the following excerpt from one of the epistles: "George Graves was very good. Put him on again. He is a coming comedian and should certainly make a name for himself." And while in a humorous vein, there's no harm in repeating the following typically Cockney story from the News of the World: "Driver of huge truck, held up by a small auto—Hi, there! Can't you move your blinkin' crystal set out of the bloomin' way?"

**A CHEAPER LICENSE.**

The suggestion that crystal set users should have to pay only half price for the annual radio licenses has met with very little support in official circles in England. At present the license fee equals the equivalent of a little over two dollars per annum. Listeners seem to overlook the fact that it costs just as much to broadcast a programme whether a crystal or tube set is employed.

**DUTCH USING SHORT WAVES.**

It was recently announced by the Dutch Ministry for the Colonies that special short-wave experiments were being carried out under the auspices of that department, with a view to establishing regular communication with the government stations in the Dutch East Indies. The station operated by the Colonial Office, call signal PCUU, is working with a 42 metre wave. The Post Office station, PCMM, is also co-operating, the latter using a wavelength of 25 metres.

**MILAN STATION OPENS.**

The new broadcasting station operated by the Union Radiofonica Italiana de Milan, was recently formally opened, and it transmits on a wavelength of 320 metres (937 kc.) It is hoped to relay special operatic performances from the famous Scala Theatre in that city. Germany has two new relay stations of 1½ kilowatts each, at Strettin and Kiel.

**SPAIN PLANS SUPER BROADCASTER.**

It is announced that Spain, not to be outdone by other European countries, is to have its own super power broadcasting station. It is to be erected in Madrid, and if the present plans materialise, it is to be a 150 kilowatt, and is to have a wave of 3,800 metres.

The figure given for the power probably refers to the input and not the aerial rating.

**SHANGHAI BROADCASTER ACTIVE.**

For the benefit of the Ping Joys, Yung Mings, &c., we wish to state that the broadcasting station at Shanghai broadcasts a two-hour programme every night from 9 until 11 p.m., Eastern standard time. As a matter of fact, the announcements are in English as well as Chinese, so ardent DX fans here might have a shot. If any success is met with, we'd like to see the circuit employed (don't all rush at once). The station is 356 metres.

**LATE DANCE MUSIC NOT POPULAR.**

It was announced by the B.B.C. a little while ago that the Daventry station would broadcast dance music until 2 o'clock in the morning twice a week. Now it is made known that this feature will be discontinued except for one night a month. It appears that the B.B.C., eager to discover whether the twice-a-week system was meeting with general approval, requested listeners to write in if they wished this service to continue, and only ten letters expressing appreciation of the late dance music were received.

**DIVER BROADCASTS.**

Emulating last year's efforts of an Atlantic City station to broadcast the description of the bottom of the ocean as told by a diver under water, and also the more recent broadcast by a diver under the sea near Heligoland, through a Hamburg station, the B.B.C. have completed a similar feature. The diver first of all broadcast a short story relating some of his experiences, afterwards descending to the bottom of the Thames. We imagine that it was pretty cold for the unfortunate diver, for the immersion took place between 10.30 and 11 p.m. Similar stunts have been performed by 3LO and 2FC.



### FLOWERS FOR 2FC.

There is considerable friendly rivalry between the two big broadcasting stations in Sydney. Station 2BL (Broadcasters), is hurrying with the arrangements to "get on the air" with its increased power. In the meanwhile, officials of 2FC (Farmers), are reaping much satisfaction from scores of letters written by radiolists (the prize winning name for listeners), who are delighted with the new and powerful station at Pennant Hills, now being used by 2FC. From many parts of Australia letters have been received stating that the new station is sending the programmes more distinctly and louder than before.

A writer at Charleville states: "The extra power has vastly improved your station, both by day and night. Your broadcasting of the races from Randwick was a great success and was much appreciated out here. The description of the races was very good and caused us much excitement." "The speeches from Pennant Hills came through perfectly" writes a listener from Ladysmith, via Wagga. "The only trouble was that we were unable to accept the company's offer to partake of the light refreshments.

A resident of Newcastle writes of the recent opening programme: "It seems to me that it would be impossible to do any better. It is very gratifying to us to realise that N.S.W. still has the premier broadcasting station. I have only one fear, I doubt if we will ever hear such a programme again—magnificent!"

A grazier living at Louth (Darling River), expresses himself thus—"It is wonderful comfort to be able to tune in to the chimes at 10.10 and get the latest from Randwick, followed by the weather, markets and latest news."

### DRAWING A CROWD.

To judge by a paragraph in the Goulburn Herald, radio is being used by storekeepers in some parts of the State for the purpose of attracting possible customers to the shop. The Herald describes how Mr. Donoghue, of Bungendore purchased the parts for a 4-valve radio set with a loud speaker which were assembled by Master Thomas Donoghue.

There was much jubilation when the set was tried out a few days ago, and it was discovered that the broadcasting stations from Melbourne and Brisbane were received even better than those at Sydney. The scene of the try-out was the Australian store and the Bungendore correspondent of the Goulburn Herald recording the incident, states: "Reception was all that could be expected. The large audience in front of the store was highly delighted and remained listening until 11 p.m. It

was heard very plainly on Monday night, when the programme was received from Adelaide, Melbourne, Brisbane, Sydney and Perth."

As a matter of fact radio sets are used for business as well as private entertainment. When the cricket test matches were being played in Australia and during the last interstate matches there were always crowds round dozens of shops in the streets of Sydney listening to the scores as broadcast, and to the description of the games as spoken over the radio by observers on the ground.

Radio has now become the recognised medium for the transmission of news of big sporting events like the Melbourne Cup and Sydney Cup, the results of which are now known in private homes—in fact everywhere—within half a minute of the finish.

The irony of it is that newspapers which are the properly accredited instrument for the publication of news are not allowed to publish the radiograms although publicans and others make a practice of posting them up. It is high time that this was altered and the Country Press Association will not rest until it receives permission to establish its own broadcasting station at Sydney so that the news can be received by the newspapers with the utmost despatch.

### SELF TAUGHT FLAUTIST.

Those who have heard the beautiful flute playing of Mr. Richard Chugg, through 3LO, Melbourne, will be surprised to learn that this young musician is practically self taught. Originally he intended to follow a sea-faring profession—in the footsteps of his father, the well known Captain Chugg. However he has shown such promise as a musician that the rolling main will not see him again for a long time. Although he has studied the flute for two years only he has done solo work of the highest standard, featuring last year in obligatos in concert work. Later he intends to go abroad for further study and experience, and it is certain that this youth and natural bent for the instrument that he will achieve considerable fame as a flautist.

### CANADIAN BROADCASTING.

Wireless is making good progress in Canada, despite the natural handicap of the distances which have to be covered by the broadcast services.

It is estimated that there are over 500,000 receiving sets in use at present, but as there are 2,000,000 families in Canada the industry has still a long way to go before it becomes universal.

There is a steady demand for receiving sets, and the principal British makes are very popular, although American competition is keen.



## ARE THE PROGRAMMES SATISFACTORY?

## THE BURNING QUESTION.

*Continued from page 15*

The subject brought up by "Programme" in our issue of April 15, has brought forth a volley of replies from broadcast listeners far and wide.

"I am a strong supporter of your correspondent," writes "Melody." "It is perfectly true that the lectures are only appreciated by the minority of listeners-in and that classical music is unpopular. In my opinion, from questions every listener-in I have met, and from my own observations, it is by a big majority, the poorer class of people who go in for wireless reception mainly as a source of entertainment and amusement. These people are not educated musically to such an extent that they can appreciate the classics. I think that jazz music (the latest fox trots, etc.), put over, has throughout a sameness as far as tune is concerned, and if more melody airs were given as items in the evening programmes it would mean more appreciation of radio."

Adversely to our correspondent "Melody," another broadcast listener who signs himself "Lecture and Music—not Jazz," is of the opinion that "Programme" is "talking through his hat."

"It is evident," he writes, "that 'Programme' has gleaned his destructive criticism from a few people who do not care to think, who do not read the papers further than scandal and murders and who do not care for what might be called intellectual reaction. My opinion of the Trio is that it is ten times more soothing and melodious than the boom, blare, type of noise called jazz which is a throw-back to the prehistoric times when rhythm and melody were entirely unexplored. To quote Captain Eekersley of the British Broadcasting Committee in his comment upon the programme controversy in England, 'It is necessary to provide the crystal user with two alternative programmes at least, to enable him to have more to grumble at.' Which is certainly to the point."

Mr. H. Wilson, of Wollongong is likewise of the opinion that, contrary to "Programme's" fond idea that he is voicing the opinion of ninety-nine per cent. of the community, he is merely voicing his own. "It takes a great deal," says Mr. Wilson, "to satisfy everybody. I have been moving around for some time past and everywhere I hear the local broadcasting stations spoken of in the very highest terms."

"I read with interest the article concerning the programmes," writes "Well Satisfied," and though the subjects mentioned by your correspondent should prove good entertainment provided they

were not overdone, I really think that the local stations are giving a good service. I have both a good gramophone and a wireless set, but I hand the laurels to the wireless for perfect reproduction and as a means of entertainment.

"Fed-up" apparently cherishes an Herculean longing to take both the local broadcasting stations bodily and hurl them over the Gap and far away. "Too much talk," he says, "and not enough action. Give us less chin-wagging and more sporting items, boxing broadcasts . . . something of interest to those of us who have got past the stage of church sermons and bed-time stories."

But, "Give us Jazz," cries "Flapper," who apparently shakes no mean pair of shoes. "What we want is some good spiffy fox trot music that we can enjoy in our homes. I would like to point out," she writes, "that whereas many of the American broadcasting stations provide a special dancing hour each night after the usual programme, we in Australia have to be satisfied with an occasional ten minutes or so from one of the movie theatres or restaurants. 'After the Ball is Over,' and 'The Last Rose of Summer,' is alright for those who bloomed in the early eighties but this is 1926, and we want some 1926 music."

And then comes "Logic": "I have gathered from the remarks passed by your correspondent 'Programme,'" he says, "that this gentleman is living in a state of ignorance for which he is to be more pitied than blamed. Personally, I find that the transmissions from the locals have improved out of all bounds during the past few months and I think that the Management of that station are to be heartily congratulated upon the service they are putting out. I might point out that there are in all six broadcasting stations in the Commonwealth and three in Sydney and if 'Programme' liked to use his intellect with the published programmes, there would be nothing to stop him from enjoying six glorious evenings of jazz and similar noises, in one week. In addition, the following may be of interest: About twelve years ago a classic was published under the name of 'Andantino' which remained obscure for many years to the majority of the 'Music loving populace.' Quite recently it was resurrected and now enjoys a hectic popularity under the name of 'Moonlight and Roses,' amongst those who like to wag a wicked toe. This composition would probably, in its primitive stage, come under the 'Sob Stuff' music which 'Programme' so capably classifies."

"Ye Gods, what a term for the works of the great composers" says "Lover of Good Music," referring to "Programme's" sweeping classification of this type of stuff as "Sob Music." Continuing,



this correspondent, writing from Newcastle, writes: "I must register a strong protest against the remarks of 'Programme.' Classical music is caviare to many but surely those people are already abundantly catered for by 2FC and 2BL. I am Catholic enough in my tastes to be able to enjoy light pieces as well as the classics and do not despise good jazz when it is tuneful and not harshly discordant, though surely all the broadcasting stations are giving us a surfeit of jazz at the present time. It is not the admirer of light music with a "go" in it whose tastes are starved by the broadcasting companies—if any starving there be—but rather the lover of the greatest and best in music, who has usually to be content with mere snippets of his favourites. I trust that the musical education of the majority of N.S.W. listeners is in not truly reflected by the opinions of 'Programme.' "

From Melbourne, "Other Programmes" puts in a word for that excellent station 3AR. "In the course of 'Programme's' letter," he writes, "he mentions that "a great lesson can be learned from the increase of licenses in Victoria" and states as his reason that 3LO makes a study of human nature in their programmes. Station 3AR is just as assiduous in this direction and just as successful in the programmes put on the air.

### ENGLISH LESSONS.

The English language bids fair to become international. Evidence of this is given by the fact that many countries are broadcasting English lessons. The latest additions to these stations are those in Denmark, which include two English lessons per week in their programmes.

### HIGHER POWER AT ROME.

Test transmissions have begun from the new 12-kilowatt broadcasting station in Rome. The installation closely resembles that at 2LO, and should be received well in England.

The original 6-kilowatt apparatus at Rome will probably be transferred to Naples.

Wanted: 24 volt Accumulator B battery "Philco" preferred. W. WILLIAMS, 79 Mowbray Rd., Willoughby.

We regret that through unavoidable circumstances, the programmes of 3LO and 3AR have had to be omitted from this week's issue of "Wireless Weekly."

### Wm. Lambert Hamilton

#### Radio Specialist

Bring your troubles to me.  
What I will do for you.

I will remodel or re-wire your receiver, making every valve give of its best. Let me modernise your receiver.

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## "WETLESS" FIXED MICA CONDENSER

LIST PRICE. APRIL, 1926.

New and improved features are incorporated in the Wetless high quality fixed mica condenser.

WETLESS CONDENSERS are synonymous with highest grade workmanship, freedom from moisture, and the best quality materials.

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.0001	.0001	.003	3/-
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1/0 each.	2/6 each.	.00025 with clips	3/-

"WETLESS" Condenser Clip, 1/6 each.

No need to solder condenser when using this condenser clip: capacitors can be changed in a few seconds.

Invaluable to the Experimenter.

Remember, the "WETLESS" Fixed Condenser has the highest grade Ruby Mica Dielectric, not paper. So SPECIFY "WETLESS."

AUSTRALIAN MADE.

Manufacturer:

Phone: Kog. 1155.

J. WETLESS, Bexley, N.S.W.

### 2FC HEARD IN GERMANY.

Some of the programmes sent out by the Sydney broadcasting station 2FC (Farmers), are being heard far beyond the borders of N.S.W. for which primarily they are intended.

Twice recently letters have reached the manager of 2FC from a radio enthusiast in Germany stating that he has heard Sydney station. The evidence he submitted, however, was rather scanty, for the officials of 2FC did not trouble themselves to check his log. But within the past few days a radio firm in Sydney has had three communications from listeners in Germany all stating that they have heard 2FC programmes, and giving particulars of the items to which they listened.

This is interesting of course, though nothing particularly to be wondered at. 2FC is one of the ten most powerful stations in the world, and if radio listeners in almost every country chose to go to a little trouble, they could pick up the programmes readily. What is more to the point is the fact that residents of every part of N.S.W.—some of them hundreds of miles from a town or railway—can receive entertainment by day and night, hear the services of the principal churches on Sundays, pick up theatrical performances, sporting results and talks and innumerable other items of interest every day of the week.

### RADIO AND THE TURF.

A doctor at Echuca writes to the manager of a Sydney broadcasting station: "It may be of interest to you to know that your ten o'clock talks by special racing commissioner of the track work of horses are very much appreciated by listeners situated at great distances from you. The point that is of such interest to those desirous of backing horses in Sydney is the state of the track and the likelihood of rain which has such important bearing on the racing. Only by wireless can we hear of this. A little further information with regard to the fitness and condition of the principal candidates engaged from your commissioner's outlook would be much appreciated. Would it not be possible to broadcast the description from the course of the races as is done by Melbourne stations in the Melbourne races?"

In regard to the doctor's question it can be stated that hitherto the A.J.C. has not consented to have its races described direct from the course as has been done with the Melbourne Company. The Pony Races are often broadcast straight from the course but so far as the horse races are concerned the broadcasting announcers have to watch the race and then walk to the nearest telephone

from which they speak to the wireless station. This involves delay of two or three minutes.

The results, however, are put on the air immediately each race is over so that listeners hundreds of miles away know the placed horses and the betting before a telegram can start on its journey. As a matter of fact, betting men in the country find it almost impossible to do without a radio set for fear some of their clients pick up the results and make a small wager on a certainty. On the other hand, punters need to be careful if placing any money after starting time lest the "book" has been listening in and is in a position to give any odds (bar one) with absolute safety.

### RUGBY WIRELESS STATION.

It is a matter for satisfaction that Great Britain now has a wireless super-station which has passed from the experimental stage to give effective communication by radio telegraphy and telephony. It is claimed that the Rugby station is the last word in the conquest of the ether, being the most powerful and the most efficient transmitting station in the world. The three main features are that it is the only long-distance station using the valve system of transmission; it has a novel installation for Transatlantic telephony, more powerful than any in existence, and it is also a short-wave transmitting station.

The transmitting valves each cost £100, and a full equipment of 54 can be used. All the machinery connected with the valves is automatic, while numerous safety devices are provided. Doors will not open if anything is electrically dangerous. Current cuts itself off if valves are out of order.

A regular British news service is broadcast in the Morse code from the station. This can be picked up in any part of the world, so that travellers in British ships in the Pacific and Indian Oceans are not now humiliated by having to obtain news from foreign sources. The Melbourne broadcasting station, 3LO, is utilising the news service from Rugby by reproducing a summary of it so that listeners not familiar with the Morse code may still hear the British news.

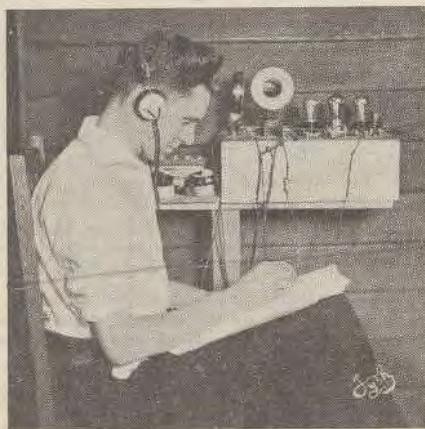
### HOTEL RECEIVERS.

Broadcast receivers are being installed in all the private sitting-rooms in the main south block of the Hotel Cecil, Strand. Very shortly, it is said, all the rooms in the hotel will be similarly equipped.



## CATALOGUE RECEIVED.

A most attractive booklet has been produced by Harringtons Ltd., in which is featured all the well known brands of radio apparatus handled by that concern. The list of parts shown would be too lengthy to enumerate here, but it is sufficient to say that everything that the set-owner requires is featured in the booklet. Everything is well illustrated and the prices of all articles are shown clearly, so that this booklet would really represent a complete book of reference for anybody interested in purchasing new parts. At the back of the book is an index showing in alphabetical order all the items featured in the catalogue. Copies of this interesting production are obtainable from Harringtons Ltd., Sydney.



Mr. Benrup, Studio Manager of 3LO, Melbourne, picking up Rugby news.

## BROADCASTING CANARIES.

Listeners of Graz, Germany, recently had the opportunity of comparing the dulcet tones of real live canaries as broadcast, with those less dulcet tones, often re-throated sopranos, tenors, &c., of the manufactured variety, and only too common these days. The occasion was the broadcasting from the scene of a canary show at that time being held in the city of Graz. Microphones were placed near the cages of the prize winning birds and much to the delight of listeners, the diminutive members of the class aves performed considerably better than do some self termed silver throated sopranos, tenors, &c. of the human species.

## PERSONALITY IN BROADCASTING.

By "HELLO."

This matter of personality in broadcasting is an extraordinarily interesting one. It is almost as if there were vibrations from a man's personality similar to those which carry his voice over thousands of miles of ether. It is not a matter of a good broadcasting voice—or of a good medium of expression, whether it be song or talk. It is sheer personality. When you listen to a great preacher in person, you have before you the himself, his little tricks, his mannerisms, his smile, his eyes. All these are lost on the air, and only one thing can substitute for them, and that is personality. As you listen to a speaker or a singer with this rare characteristic, you feel satisfied, contented; without it the same performance falls a bit flat; attention wanders, you begin to talk to members of the family. Well, personality itself can be increased by the consciousness of appreciation, as it can be depressed almost to extinction by a doubt of whether the item is "getting over." If you want a programme of 100 per cent. plus, express your pleasure to the artists by letter and then listen-in for the dividend that will be paid you in better service.

## THE HIGH COST OF WIRELESS IN ARGENTINA.

Only the extremely well-to-do residents of Argentina can enjoy the pleasures of radio if the cost of radio apparatus there indicates the extent of its use. Loud speakers sell anywhere from £6 to infinity. The old horn type of speaker, which can be procured in this country for a mere trifle is "going strong" in Buenos Aires at the rate of £12.

Variable condensers sell anywhere from £2 to £5. Rheostats are comparatively "cheap," since the carbon type can be had for only 30/-, while the wire wound type can be found only in the homes of the most needy at from 5/- to 15/- a piece.

Dealers selling push-pull transformers are evidently losing money, since they only charge £15 a pair, while a well-known grid leak that sells in this country for 3/6 can be had for 30/-. Only a few dealers can handle phone plugs because of the small margin of profit, their cost being £1, but a five valve receiver is given away for £70. Everybody charges his own batteries because it is cheaper.

The moral is, if you are a wireless fan, don't live in Argentina.

BURGESS—"THEY'RE WITH THE McMILLAN EXPEDITION"—BATTERIES



**Electrad Grid Leak Mounting**

Electrad Grid Leak single mounting. Grid Leak clips fitted to a small bakelite panel for readily mounting on panel, only requires one hole drilled to affix to panel. Price 2/9  
Single Grid Leak Mounting. Price



**Electrad Audiohm**

Converts noisy distorted tones into clear true volume by a simple twist of adjusting knob. Mount across secondary of your audio transformer 9/- as illustrated. Price



**Electrad Lightning Arrestor**

Consists of an air gap between two copper conductors arranged in an improved manner, so that it is impossible for the spacing of the gap to vary. It is then hermetically sealed and the air gap is therefore absolutely water-tight. The housing protecting the air gap is moulded in glazed porcelain with a highly ornamental finish. These arrestors comply with Fire Underwriters regulations. Price 4/-

# Electrad

## Certified Radio Products

AT ALL DEALERS



**Electrad Double Grid Leak Mounting**

Electrad Grid Leak double mounting. Grid Leak Clips fitted to a small bakelite panel for readily mounting on panel, only requires one hole drilled to affix to panel. Double Grid Leak Mounting Price 4/3



**Electrad "Variohm"**

This newest thing is suitable for grid leaks. Very compact. Fits up little room or office. Fixed at inside room or office door. A complete range of resistances to suit units, ranging from one ohm to thirty megohms. Non-magnetic. No magnetic noise. Some units have variable zero. Some units with constant noise. Price 8/6



**Electrad Glass Grid Leaks**

Electrad grid leaks are made by a new and controlled process. Each grid leak is individually tested before it leaves the Electrad factory. They are non-microphonic and moisture proof, while the resistance is constant. Sizes 1/2 to 5 megohms, 2/3 plain. Price 3/9  
Size 1/2 to 5 megohms, 3/9 de luxe. Price

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These are only a few of the stations that you will pick up on the loud speaker with our New Four Valve Radio Receiving Set. See us first, a definite GUARANTEE in writing, Money refunded if these Sets are not all we claim for them.

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Three Valves . . . . .	£21 0 0
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Four Valves . . . . .	£25 0 0
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Five Valves . . . . .	£29 10 0
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