

WIRELESS WEEKLY

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

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VOL. 8. No. 2.

FRIDAY, MAY 7, 1926.



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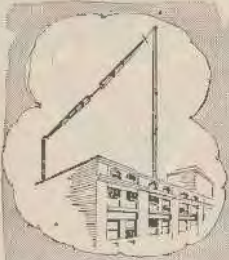
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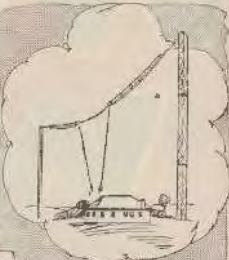
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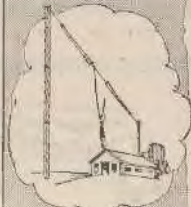
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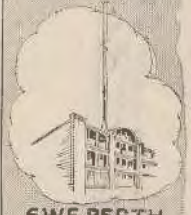
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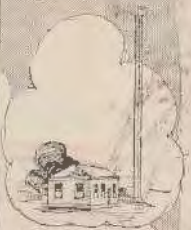
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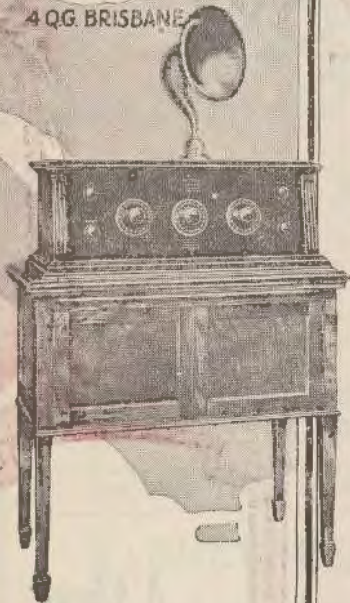
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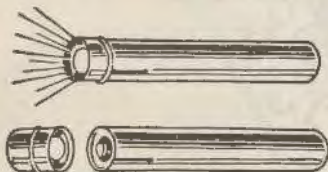


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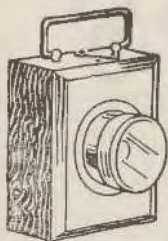
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No. 1, each .. 2/3

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To secure better co-ordination among the various broadcasting organisations in Switzerland, a union has been formed at Berne comprising representatives from Zurich, Lausanne, Geneva, Berne and Basle. Plans are nearing completion for a system of simultaneous broadcasting.

CHEERS IN CZECHO-SLOVAKIA.

Listeners in Czecho-Slovakia are rejoicing over the announcement of the Minister of Posts and Telegraphs that, as from April 1st, the annual broadcast license fee will be reduced from 15 to 10 crowns.

ITALIAN WIRELESS REGIMENTS.

The claims of wireless as a military asset have been recognised by the Italian Government. The Army Reform Bill, adopted by the Chamber, provides for the constitution of two regiments of wireless operators.

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Published by Publicity Press Ltd., 12/16 Regent St., Sydney, Australia.
 Phones: Redfern 964 and 953.

Managing Editor: E. O. MUMFORD.

Editor: A. W. WATT. Technical Editor: O. W. SLADE.

Advertising Manager: J. T. REEDIE.

The Editor will be glad to consider Technical and Topical Articles of interest to Australian Experimenters. All Manuscripts and Illustrations are sent at the author's risk, and although the greatest care will be taken to return unsuitable matter (if accompanied by stamps), the Editor cannot accept responsibility for its safe return.

Subscription Rates.—Twelve months (52 issues), 13/- post free. Six months (26 issues) 6/6 post free. Single Copies 3d. each, or post free 4d.

Advertising. Copy must be in the hands of the Managing Editor by the Friday preceding each issue. If copy is not received in time, the previous week's advertisement will be repeated.

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

Agents in Great Britain.—The Colonial Technical Press Ltd., Dudley House, Southampton Street, Strand, W.C. 2.

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THE LESSONS OF THE EXHIBITION.

Summed up in a few words the primary lesson to be learned from the big Radio and Electrical Exhibition being held at the Town Hall is that few of us realise to the full the remarkable advances that have been made in those two sciences over the past few years, and even during the last twelve months.

While other industries proceed with more or less ponderous steps along the paths of progress, wireless in particular has outstripped all others and in less than a quarter of a century has assumed a position of far greater importance in relation to the affairs of the world than even steam which has the backing of generations of scientific evolution.

The real underlying value of wireless lies, of course, in the commercial services which are being conducted almost all over the world and which, in the very near future will embrace Australia within their scope, but broadcasting may be regarded as the Entertainment and Education branch of this wonderful factor for world advancement.

As broadcasting represents that phase of wireless which comes more easily within the orbit of public interest, so its advances and developments have been typified by the upward trend in the manufacture of both receivers and the parts necessary for their construction.

The old order of hit or miss methods has changed—the construction of radio apparatus today combines both scientific brains and engineering ability in order to produce parts that guarantee the public a maximum of efficiency in broadcast receivers, and those who were familiar with the earlier types of radio parts, must be amazed at the tremendous field of advancement covered by manufacturers in an incredibly short period.

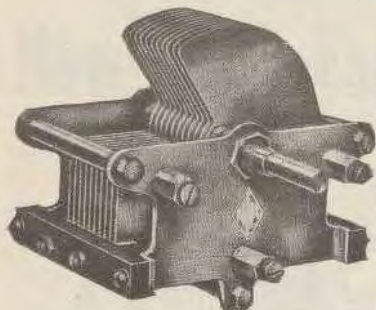
This applies not only to British and American goods, but to Australian made products as well, without mention of which this article would not be complete. Australia is now producing valves, batteries, condensers and other radio parts which are decidedly a credit to their manufacturers both from the point of view of efficiency and appearance. Such apparatus demonstrates that the Australian manufacturer in the radio field is not one whit behind his overseas competitor.

The second lesson to be learned from the Exhibition is that broadcasting is here to stay. No industry having such a tremendous scope for the dissemination of entertainment and educational facilities, and at the same time been productive of such remarkable manufacturing development could be otherwise than permanent.

The most sceptical visitor to the Exhibition will admit that.

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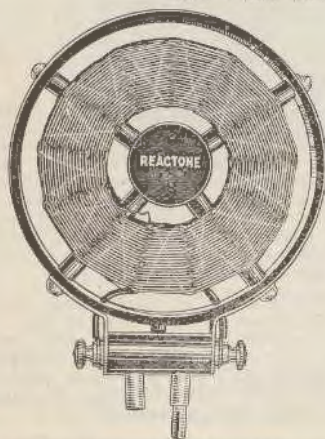
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Radio Department, 30 Market Street, Sydney

A Cheap Efficient Amplifier

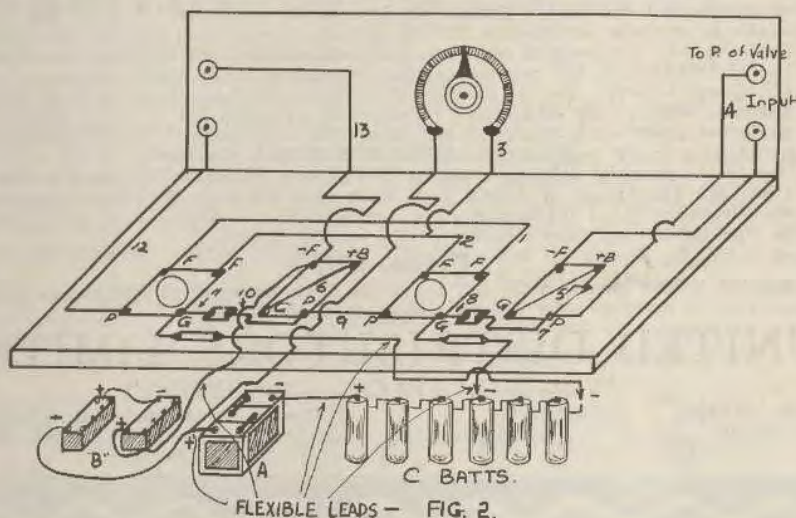
By *Wireless Weekly*

Radio receivers and each of the various components used are subject to those discriminations imposed by individual tastes, requirements, convenience and expense. For this reason, there is no such thing as the best amplifier, any more than there exists the best motor car, best pudding or even the best wife. When individual conditions are considered, however, justification for each and every different type of amplifier is obtained whether they be resistance transformer or choke coupled. In spite of the above facts our readers' first question will undoubtedly be: "How does the impedance coupled amplifier compare with a reasonable quality transformer or resistance coupled amplifier?"

In quality of tone the impedance coupled amplifier is superior to the average quality audio transformer, and quite equal to the resistance coupled system. In efficiency it acknowledges pre-eminence to the transformer, but asserts superiority over resistance coupling. That is, an impedance coupled amplifier operating with the same B battery voltage as applied to the transformer coupled amplifier, while consuming slightly less plate current, will not give as much amplification per stage. When comparing it with resistance coupling, however, the amplification is greater per stage and the plate current drawn from the B battery considerably reduced.

The semi-technical side of impedance coupling should prove interesting to most readers, and as it exhibits no alarming complications it should be readily understood. The choke coil is not confined to the series connection of a primary and secondary of an audio transformer, as shown in our Fig. 2. It may be any impedance satisfying the requirements imposed by satisfactory low frequency amplification. To obtain adequate amplification of the low notes, the coupling choke should offer an impedance three times that of the valve at the lowest frequency to be amplified. This means that a choke from 130 to 150 henries will be required for good amplification with the average type of valves used for B.C. reception. Where standard audio transformers are used, the primary and secondary windings should be connected in assisting series (not opposing), i.e., +B to G.

Readers who have transformers with burnt out primaries must use the secondary, only, as the choke coil. In the tests carried out by "Wireless Weekly," every type of valves was used, and the coupling condenser most suitable for all-round efficiency was a .05 mfd. The grid leaks are not critical, as long as they are kept reasonably small. For our comparative tests using various valves a 1 megohm was used for the first valve and a 2 megohm for the second. It is very necessary, however, to carefully experiment with various C





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

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

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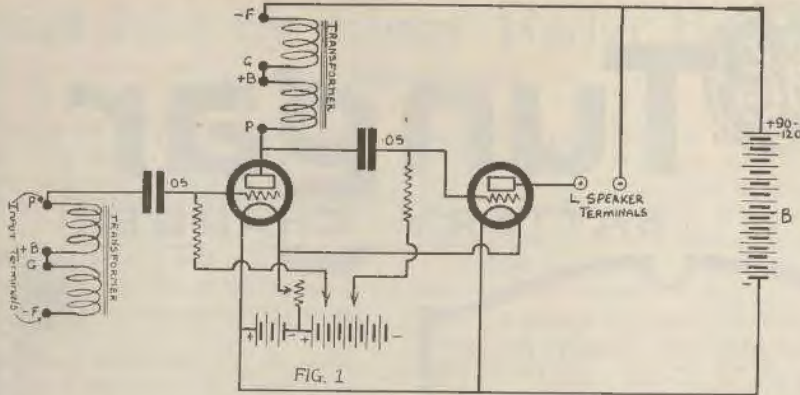


FIG. 1

battery voltages. The manufacturer's data, as supplied with the valve, will act as a guide. There are very few receivers in which less than 50 per cent. of the distortion does not originate in the last stage of the audio amplifier through the overloading of a poorly biased valve. Where the distortion originates in the detecting circuit the remedy will be found in either one or more of the following ways: (1) Varying grid leak; (2) reducing regeneration; (3) reducing plate voltage.

Method and order of Construction.

Fig. 1 is the circuit diagram and Fig. 2 the pictorial view of the layout of the components and the wiring. A small panel, 8 x 4 inches is all that is needed to take the rheostat and the two input and output terminals. Carefully lay out the baseboard components as shown in this drawing. For the novice we are numbering each and every connection in the usual manner.

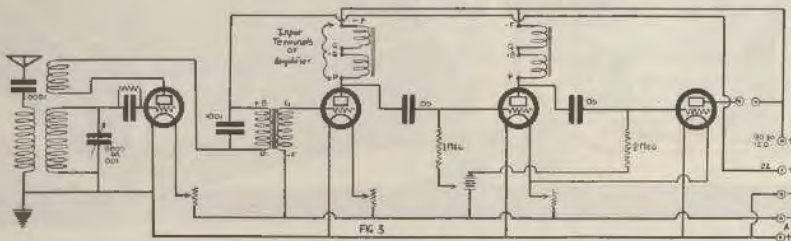
After drilling and mounting the components and terminals on the radion panel and baseboard, the panel should be secured to the base by two or three small wooden screws, and the wiring commenced. No. 1 links the two outside F terminals of the first and second valve holders. No. 2 links together the two inside F terminals of the holders. No. 3 is a link taken from No. 2 to the right hand terminal of the rheostat. This completes the filament wiring.


No. 4 links the top input terminal to the P

of first transformer. Nos. 5 and 6 link together the B and G terminals of the first and second transformers respectively. No. 7 connects the P of first transformer to one terminal of the .05 fixed condenser, and No. 8 is the connection from the other fixed condenser terminal to the G terminal of first valve. No. 9 links the P of first valve to the P terminal of second transformer, and Nos. 10 and 11 complete the wiring of the second fixed .05 condenser. No. 12 links the P terminal of second valve with the lower phone or loud speaker terminals, and No. 13 links the top phone terminal with the -F of second transformer.

Carefully join up the batteries as shown with flexible leads, taking particular care that the -F of second transformer goes to the 90 or 120 volts. Where this amplifier is used after the ordinary valve detecting circuit the input terminals are connected to the phone terminals of the preceding valve, care being taken to see that the upper input terminal goes to the plate. Where the amplifier is used to amplify a crystal detector it is immaterial which of the input terminals goes to the phone terminals. Those readers who are not at present satisfied with the quality or volume of their loud speaker receivers will be very wise to use this amplifier in lieu of their second stage of audio. See the completed circuit diagram, Fig. 3.

The following materials are necessary to build the two valve choke coupled amplifier:—





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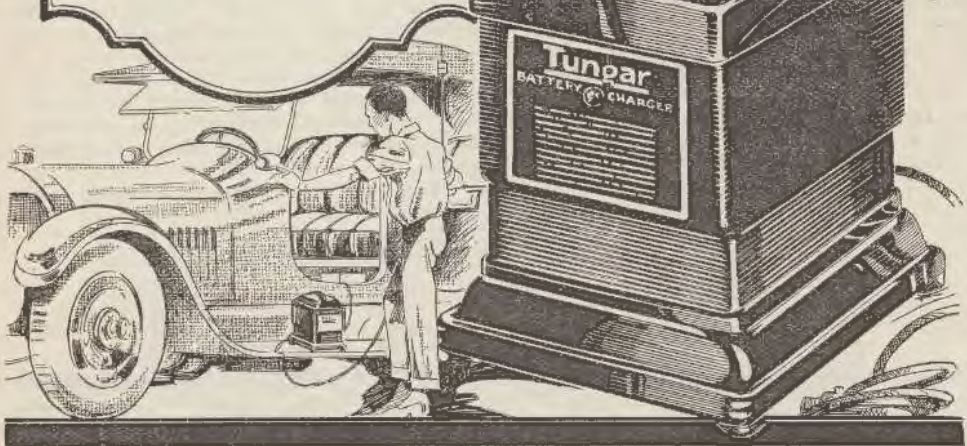
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Queries Met by Every Radio Beginner

By "WIRELESS WEEKLY."

We wish to thank all those readers who have forwarded to us their queries met. Each and every one is being filed and they will be answered in their turn in these columns, as time and space permit.

The first query to be dealt with this week is from a city reader, who asks the following question: "Are straight line frequency condensers worth while?"

Where maximum selectivity is required, straight line frequency condensers are very much worth while. Those of you who are using the ordinary type of condenser, with the semi-circular plates, have no doubt discovered that practically all of the lower wave broadcast stations can be tuned in with less than a 90 degree variation, and that the tuning of at least two of the stations is dangerously close to each other. This is due to the fact that the capacity is increased at a constant rate as the dial is rotated. The tuning action of the straight line frequency condenser, however, increases the frequency per degree of rotation, so that if three broadcasting stations are separated by equal frequencies, they will each be tuned in by a straight line condenser at equal degrees of the dial.

There is another big advantage with a true straight line frequency condenser, viz., the possibility of calibrating a receiver by determining the tuning positions of two or more stations, and plotting the curve.

Another reader asks: "What do you consider is the best method of tuning a regenerative receiver?"

The old proverb that practice makes perfect is particularly true with regard to the ordinary type of regenerative receiver, but this information may prove helpful.

First, adjust the detector rheostat to a point just below normal brilliancy. Where primary and secondary circuits are tuned, they must both be brought into resonance with the incoming signal.

(Continued from Page 9.)

- 1 Radion or Bakelite panel—8 x 3 inches.
- 1 Wood base—8 x 6 x 1 inches.
- 1 Rhenstat (to suit valves used).
- 2 Transformers or 2 chokes.
- 2 .05 fixed condensers.
- 2 Valve holders.
- 2 Valves.
- 2 Grid leaks and clips.
- A, B, and C batteries.

Next adjust the coupling of tickler coil by bringing it closer to the secondary coil, after which the filament control should next be slightly increased until the music or speech is heard at maximum volume, clearly without howling or distortion.

A third reader writes: "I have looked up all my old copies of 'Wireless Weekly' and have not yet found the remedy for a serious defect of distortion which I am subject to when using 2 stages of audio amplification?"

It was this query which led to the publication of the choke coupled amplifier described in this issue. Try reversing the leads connected to the loud speaker. If there is no improvement ask a friend to test the speaker on his receiver. It is customary to shunt a .001 fixed condenser across the primary of the transformer following the detector valve, in order to by-pass the high frequency component of the rectified current. The value of the condenser indicated is quite sufficient to pass more than all frequencies met with in broadcasting, but in some transformers it is possible to bring about a marked improvement in tone by using a larger condenser, whilst in other makes the effect of such a condenser is to cut off the upper musical frequencies and produce a muffling distortion.

A further improvement in loud speaker reproduction may also be made by adding a variable resistance across the secondary of the audio transformer. In this reader's case, it would appear that the distortion is due to the last audio stage, and not to the detecting circuit.

ANOTHER SPECIAL BROADCAST. OAKLAND TO AUSTRALIA.

We have just received advice of a special Australian broadcast to be carried out by KTAB, the new 1000 watt broadcasting station installed at Oakland, California. An unusual programme, in which some of the best vocal and instrumental artists will take part, has been arranged in conjunction with the Oakland "Post Enquirer." KTAB will commence the programme at 10 p.m., Sydney time on May 20th, and reports of reception sent to Station KTAB, Oakland, California, will be appreciated. The wavelength is 240 metres.

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Columbia "C" Radio Battery No. 4771



MAKES the loud speaker respond with a new clearness. Prevents distortion and excessive flow of current from the "B" Batteries and makes them last much longer. Can also be used as an "A" or "B" Battery under certain conditions explained on the label.

FACTORY REPRESENTATIVE
ELLIS & CO. (AUSTRALIA) LTD.
516 KENT STREET, SYDNEY, N.S.W.

Columbia Radio Batteries

Made by the manufacturers of the Famous Columbia Dry Cell

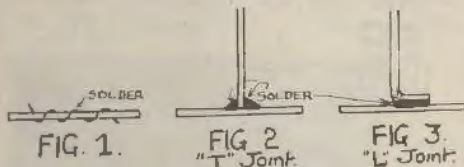
A Few Hints on Soldering

By "WIRELESS WEEKLY."

When wiring up radio receivers, whether they be the humble crystal receiver or multi-valve, frequently one has to make joints between leads. There are several ways of doing this, and the constructor must choose that which he finds the most convenient for his purpose.

Fig. 1 shows a joint which may be made with a round wire of not very heavy gauge. In this case the end of the lead to be connected up is twisted round the other, two or three times, with a pair of pliers, and solder is run into the joints with a hot iron. This type of joint is particularly strong, although it does not look too neat. Wire of heavy gauge or the ordinary square tinned copper wire so commonly used cannot be soldered as shown in Fig. 1, and the Fig. 2 or Fig 3 method should be employed.

The T joint, Fig. 2, if well made, is the neatest of all and it can be relied upon if properly done. When making a T joint the connecting wire should be cut to such a length that it just touches the other wire at the point. At which it is cut the copper will be exposed, and it is advisable to tin the end. When this has been done, lay the two to-



gether in the correct position, apply a little flux and run in a good blob of solder with a hot iron. When it has cooled make sure that the joint is a good one by giving both wires a good pull with the pliers.

Fig. 3 shows the L joint method of connection. This is somewhat easier than the T method and is quite reliable. To make this joint, cut one wire so that it is a $\frac{3}{4}$ inch longer than is required. Bend the end round at right angles with the pliers and lay it against the other connection. With the two in this position apply a little flux and run solder well in with a hot iron. Test the joint as before.

Better Radio

FOR COUNTRY LISTENERS.

Station 2BL's New Power.

To residents of the country particularly, and to those of the metropolitan area also, it should be interesting news that broadcasting station 2BL (Broadcasters), Sydney, are about to increase their power so that the station will be heard further and more clearly.

Already 2BL gives listeners excellent programmes of entertainment and information, and it is particularly easy of reception in the evenings, but with the additional power, the officials of the station expect 2BL to equal or surpass any other in Australia. Everything sent out from 2BL should reach every home in N.S.W. where a receiving set is installed.

The new station will contain the latest machinery, and exemplify the most modern methods developed by radio engineers. Special attention has been given to the maintenance of consistent frequency—that is, maintaining the correct wavelength—and to the suppression of harmonics. The normal power of the station will be 5 k.w. to the main oscillator; but the new machinery has been developed and designed to operate with an input of 10 k.w. to the main oscillator, the total input being 32 k.w.

The valves to be used are the first of their kind to reach Australia, and are unique in that the envelopes are not made of glass as is customary in ordinary valves; but are constructed of silica or fused quartz. Thus, they are capable of resisting the fierce heat which is generated. These valves are cooled by an air blast.

The main power supply will be drawn from the Sydney City Council electric supply, but this will be generated so that any possible deflection in voltage of supply will not affect the input of the station. The station house itself is constructed of brick, with concrete floors, having been specially designed and built for the purpose. Like the station, the steel tower and wooden mast that carry the aerial system, are situated high up on the hills at Coogee. A considerable portion of the apparatus installed was made in Australia, and the remainder was imported for the purpose of providing a broadcasting station which will be up-to-date in every way, and capable of answering any demands made upon it.

PHILCO—"Ask the man who has one"—BATTERIES

FINISHED WITH BATTERY TROUBLES!

How good that sounds, and yet users of PHILCO DRYNOMIC RADIO BATTERIES have reached as near to that state as is humanly possible. Provided that they are given those small attentions which all accumulators demand—some a little, and others a lot—Philco Products will give trouble-free service for years, and will always be found to be faithfully performing the functions for which they are designed.



Type.	Voltage.	Capacity.	Price.
248 DXO	48	3,000 Ma. Hours..	£6 4 0
83 X (Replaces 90 Volt Dry Battery)	48	3,000 Ma. Hours..	£8 15 0
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248 DHO	48	6,000 Ma. Hours..	£8 5 0
86 H (Replaces 90 Volt Dry Battery)	48	6,000 Ma. Hours..	£10 10 0

PHILCO RECHARGEABLE "B" BATTERIES.



Type.	Ampere Hour Voltage.	Capacity.	Price.
58 RW	6	60	£5 10 0
78 RW	6	90	£6 10 0
98 RW	6	120	£7 17 6
118 RW	6	150	£9 10 0
136 RW	6	180	£11 0 0

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Philco Radio Batteries are DRYNOMIC. This means that, although being fully charged, they are absolutely dry of acid, and in consequence do not deteriorate when held in stock; at the same time they are ready for immediate use. The life does not start until you or your dealer pours in the acid. INSURES A FRESH BATTERY!!

The grids are designed on the famous DIAMOND LATTICE, and literally are BUILT LIKE A BRIDGE.

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DRYNOMIC RADIO
BATTERIES

All dealers in Town or Country have illustrated price lists, which give the fullest information.

Any further details such as trade discounts will be gladly supplied.

PHILCO BATTERY CO.,
280 Castlereagh St., Sydney.

M 3230
M 3396

THE OPENING OF 4QG

NEW ERA IN BROADCASTING

The afternoon of the 22nd of April marked a very important occasion in the history of broadcasting in Australia. At 3 p.m. on this afternoon, 4QG, the station of the Queensland Radio Service, was officially opened by the Premier of Queensland, Mr. W. McCormack.

Although the station is not yet quite completed, the workmanship in the reception room and studios is noticeably of a high standard.

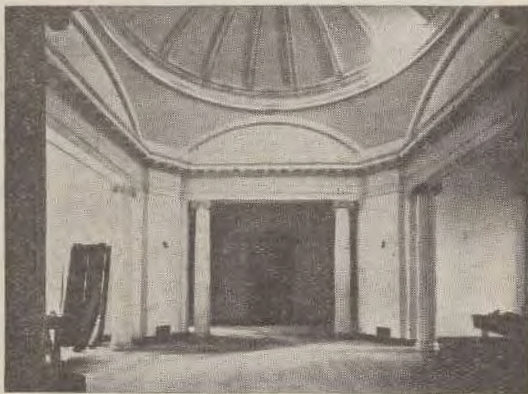
A large number of guests filled the reception room, where they were entertained by a receiver and loud speaker which was tuned to the afternoon programme of the station.

The Premier addressed the gathering standing in front of the microphone, which had been brought out of the adjacent studio.

In declaring the station opened, Mr. McCormack stated: "This station has been established in Queensland for the use of the people of Queensland. It is the only station in the Commonwealth that is controlled by a Government, and it was a right thing that it should be controlled by the central authority." Continuing, he added that, "The whole of the machinery used, with the exception of £1000 worth has been made in Australia, which speaks volumes for our own people. In the science of radio we have engineers equal to those in the

older countries. The building was erected by the Works Department, and £20,000 had been spent on the station." Mr. McCormack must be aware that many people listen without licenses in Queensland, as he did not forget to remind them to take out the necessary license if they wished to insure a perfect service.

The Premier also touched on the educational facilities of radio, as he says, "instead of an instructor having to travel great distances to teach



Reception Room at 4QG.

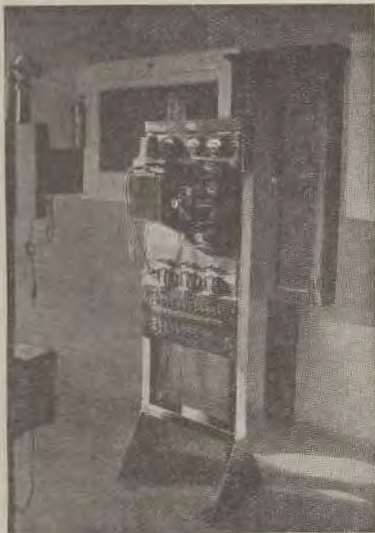
a few, by means of radio thousands can be catered for throughout the State." He also congratulated Mr. J. W. Robinson, Director of the Service for the very fine organisation that he had built up.

4QG Helps in the Dorrigo Relief Appeal.

The Queensland Radio Service has been of great service to the "Dorrigo" Relief Appeal. This appeal is for the relief of the relations of the members of the crew who lost their lives in the ill-fated "Dorrigo," a small coastal freighter, which went down with most of the crew.

4QG has been broadcasting appeals to listeners for funds for the relief, and many hundreds of pounds have been obtained from this source.

On 23rd April, Arthur Jordan, the dramatic English tenor, broadcasted from 4QG, and he also appealed to the listeners for help in this cause. This, of course, is not the first instance that radio has played such a fine part, as 3LO has used it on many occasions, such as the recent bush fires relief.



Control Board at 4QG.

BURGESS—"Ask any Radio Engineer"—BATTERIES

WIRELESS WONDER

Colmovox Five

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

Demonstrations Given Day or Night

IN OUR SHOWROOMS
DAILY.

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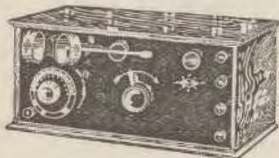
OR IN YOUR OWN HOME
BY APPOINTMENT.

SEE US AT THE RADIO EXHIBITION. STAND No. 25.

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 5 0	
Accessories required:—		Accessories required:—		Accessories required:—	
1 Valve	0 13 6	2 Valves	1 7 0	3 Valves	2 0 6
5 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 6 0	3 1.5 Dry Cells	0 9 0
1 High Tension Battery	0 9 6	1 High Tension Battery	0 18 0	1 High Tension Battery	0 18 0
1 pr. Head Phones	15 0	1 pr. Head Phones	0 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 8
15 ft. Lead-in Wire	0 1 8	15 ft. Lead-in Wire	0 1 8	Amplion Junior Speaker	3 10 0
£3 10 0		£4 12 0		£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

THEOSOPHICAL BROADCAST.

On Sunday, May 9th, Station 2BL is broadcasting an entirely new and novel service from the King's Hall by courtesy of the Independent Theosophical Society. This is the White Lotus Memorial Service to the late Madame Blavatsky, the famous Russian lady who founded the Theosophical Movement 50 years ago. An address on the life and work of this lady will be delivered, a superb trio number by Arcasky entitled "Elagic" will be played, and readings will be given from Christian Buddhist and

the first of which has the title, "The Origin and Romance of Coinage." On the same programme Mr. Brown, who is associated with one of the leading motor firms in Sydney, commences a series of instructive talks on the electrical mechanism of a motor car. Beginners in motoring, and even those who have owned and driven cars for a considerable period, will derive the utmost information from these talks. Miss Thelma Houston, contralto, will be one of the artists on the evening programme, whereon will also be found the Ambassadors' Salon Quar-



Miss Hilda Lane, a brilliant young Queenslander, who is now training with Mr. Roland Foster and also singing from 2BL.



Miss Lilian Frost, organist, frequently heard from 2FC.

Hindoo World Scriptures. Although it is 35 years since Madame Blavatsky died, interest in her life and work constantly increases, and for the first time this particular Memorial Service is being placed on the air. The morning service will be from St. sent being performed in Sydney. In the afternoon programme Mr. Raymond Beatty will be the soloist, and Broadcasters' Trio will present a varied and delightful programme.

A FEAST OF GOOD THINGS.

Monday, May 10th, will see Broadcasters introducing from the studio of 2BL a new lecturer in the person of Mr. D. Raymond, who is one of the Australian authorities on coins and coinage. Mr. Raymond has been engaged for the delivery of a series of entertaining and delightfully informative talks,

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 factors 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

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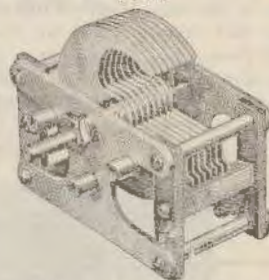
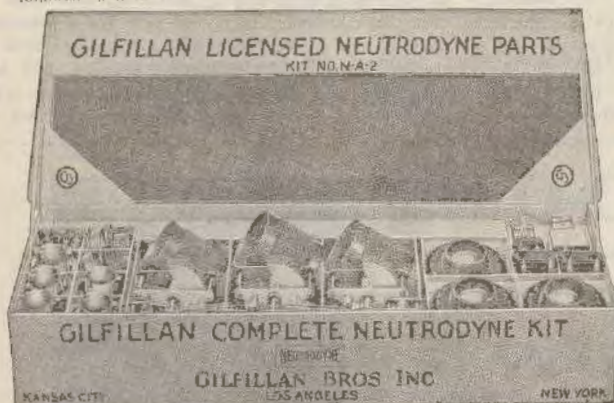
BURGESS—"Fo revery circuit and valve"—BATTERIES

GILFILLAN — Quality Radio

NEW LINES — STOCKS JUST UNPACKED

NEUTRODYNE KIT No. NA-2.
The purchase and use of this Kit assure the builder of "Neurodyne" results. The suggested layout which is included in each Kit should be followed in detail.

VARIABLE STRAIGHT-LINE CONDENSER.
B 450.



Variable condenser of modified straight frequency line type, assuring wide separation of stations over entire dial reading. Lowest dielectric loss insulation is used. May be used with clock or counter-clock wise dial readings. Rotors and stators are machine assembled, ensuring perfect alignment and low current resistance.
Price, £1/12/6 each.

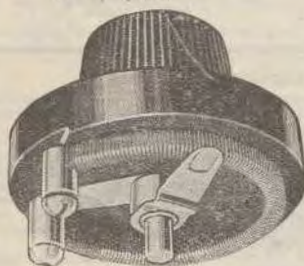
Consists of the Following:

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|---|---|
| 1—Main Panel, drilled and engraved. | 1—R 1125 (6 to 1) Transformer, Special. |
| 1—Sub Panel, drilled. | 3—R 425 Condensers. |
| 5—R 1075—Tube Sockets. | 1—R 1275C—Jack. |
| 10—R 325—Binding Posts. | 3—Neurodyne Transformers |
| 10—Binding Post Markers. | 2—Neurodons. |
| 1—R 525A—Rheostat. | 1—M.P.D. By-Pass Condenser. |
| 1—R 525B—Rheostat. | 1—002 By-Pass Condenser. |
| 2—R 175—2½ in. Dials. | 1—Grid Leak. |
| 3—R 290—4 in. Dials. | 1—.0025 Grit Condenser. |
| 1—R 1125A—(3½ to 1) Transformer, Special. | Wiring Diagram and Plan. |

Price, £17.

SOCKET FOR UX OR CX TUBES.
B 1180

New Socket for UX or CX Tubes, spring cushioned. This socket is supplied with a moulded base of bakelite, and is provided with cushion spring and contacts of highest grade material. Terminals are suitably marked. The tube spring base is of bakelite dielectric and the holes are of such size as to prevent inserting the tube in any but the right way.
Price, 6/- each.



RHEOSTATS.

- Gilfillan—
R 525A, 10 ohm with Dial, 6/-.
R 525B, 20 ohm with Dial, 6/-.
R 525C, 30 ohm with Dial, 6/-.



SMALL TUBE SOCKET.
With Rubber Base.
B 1225.

Non-microphonic tube socket for 1½ tubes. Has nickel silver contact set springs, moulded bakelite body and special soft rubber base.

Price, 5/6 each.

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Melbourne 266 Collins Street
Brisbane 93 Queen Street
Adelaide 10 Rundle Street
Wellington, N.Z. 42 Willis St.
Auckland, N.Z. 140 Queen St.



Virginia Bussetti, a distinguished contralto from 2FC.

tette under the direction of Mr. Claude McGlynn. This delightful combination specialises in music of the very finest type, and their performances are always enthusiastically received. The Newtown Band is also figuring on the programme, and it is interesting to note that in a recent communication from New Zealand this band was specially mentioned in regard to the delightful band music which has been transmitted. Al Hammett's Dance Orchestra, playing at the Ambassadors, will provide entertainment in the form of dance music until midnight. A recent visitor from Auckland, New Zealand, called into the studio specially to express his appreciation of programmes received there, and announced his intention of waiting upon Mr. Percy Dawson to compliment him on the Ambassadors' Jazz Band, to the music of which he assures us he and his family have frequently danced.

ORCHESTRAL NIGHT.

Tuesday, May 11th, will be 2BL's orchestral night. Broadcasters' Miniature Orchestra, directed by Mr. Horace Keats, has aroused enthusiasm on the part of the radio fans by reason of the exquisite music which has recently been transmitted, and the selection of programmes for the future indicate an even higher standard being reached. Mr. Norman Janson, Sydney's fine baritone, will also be heard on that evening. An interesting feature of Mr. Janson's musical work is the arrangement of concerts in which he excels, and a number of concerts that have recently been transmitted, including the Anzac Memorial Concert from the Town Hall, were arranged

by this artist. Miss Helena Stuart, a newcomer, who is the possessor of a refined and beautiful soprano voice, also figures. The lecturers for this evening are Mr. H. E. Crabb, who continues his story of civilisation talks, dealing on this occasion with the spread of civilisation. Miss Helen Jean Beegling will be heard in a somewhat novel vein in the presentation of a travelogue entitled "Los Angeles to Tujmana (Mexico)".

EMBASSY ORCHESTRA.

2BL presents on Wednesday, May 12th, Mr. Robert Harper, the distinguished operatic tenor, in a particularly choice series of excerpts from his repertoire. On the same evening the City of Sydney Band will be broadcast, and the Embassy Jazz Orchestra, under the direction of Mr. S. Bennett, will be transmitted by courtesy of Professor Bolot. This combination of jazz instrumentalists is recognised as producing dance music of a particularly high class, tempo and syncopated effects being specially watched. The Foreign Affairs talk, the popularity of which appears to increase with the weeks, will also be presented on this evening. The reputation of Mr. Prentice in connection with matters of international politics is now extending beyond the limits of the Com



Miss Phyllis Best, a clever young Australian broadcasting from 3LO.

monwealth, as a recent newspaper clipping from New Zealand instanced him being quoted as an authority in a long article published dealing with the international situation.

PHILCO—"For less worry and better results"—BATTERIES

Hear More
and Better
with

PHILIPS

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509

IMPROVED
201A TYPE VALVE

PHILIPS RESEARCH DEPARTMENT have evolved a general service Valve showing marked improvements over the 201a Valve types. On account of its very large plate output it is specially suitable as a Power Amplifier for Loud Speaker work, yet its design also makes it suitable for High Frequency stages as well as Detector work. The Valve gives a unique purity of tone with a magnificent volume, sufficient for any loud speaker. No trace of distortion is discernible at any stage in operation. A 6-Volt Accumulator should be used to light the filament controlled by a rheostat of at least 12 ohms resistance. The main characteristics are as follows:—

Filament Voltage	5 Volts
Filament Current	0.25 Amps.
Saturation Current	50 M.A.
Plate Voltage	20-120 Volts
Plate Current	10 M.A.
Amplification Factor	9

PRICE 13s. 6d.

Obtainable at all Radio Dealers—supplied
with either Standard American or English
Caps.



POPULAR PROGRAMME.

Thursday, May 13th, will see 2BL presenting a popular programme. Miss Claire Gooley's soprano voice will be heard in a selection of songs. The Waikiki Troubadours will lacerate the heart-strings of the listeners-in with memories and melodies direct from Honolulu and Hawaii. Miss Leah Freedman and partner present a comedy sketch. Al Hammett's Dance Orchestra, playing at the Ambassadors, will provide entertainment in the form of dance music



Edouard and Raymond Lambert, from 3LO.

until midnight. The lecturer on this particular occasion will be Mr. Fraser Anderson, the President of the Astrological Society of N.S.W. He commences a second series of lectures on "Astrological Aids to Character."

RACING TALKS.

Miss Nellie Chadwick, the dramatic soprano, will be featured on Friday, May 14th, on 2BL's programme. This fine artist, who is now the soprano soloist at St. Patrick's Church, Church Hill, is steadily developing in musical quality and interpretation. The result of her association with St. Patrick's Choir is markedly noticeable in an increase of devotional quality in sacred and oratorio numbers and an appreciation of secular work that is very marked. On the same programme Miss Nora Hill, whose delightful Irish lilting voice has a sufficient suggestion of a brogue to be very fascinating, will also be heard. Mr. Cee Morrison's Gloomchasers provide mirth, music and melody for the numerous public who delight in this form of entertainment. On the same evening the senior sporting expert of the



Burgess is off on another adventure—this time it is with Capt. G. H. Wilkins, M.C., to the North Pole.

He has gone on his long journey fully equipped with radio; in fact from advices received, I understand that between the efforts of M. F. Hanson (Naval Laboratory, Anacostia), F. V. Schnell (an old friend of last years Fleet visit) and the engineers of the Burgess Battery Company, portable apparatus of the very latest type has been supplied to the explorer.

A number of sets have been sent with the expedition, the main one being a 250 watt short-wave transmitter and receiver, which will be located at Port Barrow, and it is anticipated that communication with Radio U9EK will be established every night or nearly so.

U9EK is the station situated at the Burgess Laboratories at Madison, and there a continuous watch will be kept by the Burgess Battery Company operators among whom will be Donald Mix (I don't know if he is related to Tom) who accompanied Macmillan on his recent expedition. He became famous on account of his wonderful ability to go without sleep.

Another set which is fitted to the three engined Fokker plane is housed in the cabin behind the crew and derives its power from a generator driven by a wind vane when the plane is in motion; when on the ground, a hand rig is provided. It was trouble with this generator which prevented Wilkins advising his base of his progress last week.

Then there is the set on the second Fokker plane which is equipped with portable apparatus, designed and built at the Burgess Laboratories, details and diagrams of which were published by the courtesy of the Burgess Co. in a recent issue of "Radio," (Australia). This transmitter depends for power upon specially designed Burgess Batteries, which are housed in cases insulated against the extreme cold, experienced in the plane, with balsam wool. This set is furnished with a key, which, strapped to the aviators knee, enables him to send from any position in the ship. Aerial and other gear, enabling it to be used as a field set if necessary, is supplied.

In addition to those mentioned, there are two portable field sets which may be used as required, and which are by the same designer.

The Adventures of Burgess Batteries will be considerably added to when this expedition returns, for no doubt Wilkins will have many opportunities of using his wireless sets. I venture to say that his security of mind will be all the greater for their presence. *

PHILCO—"Super Power"—BATTERIES

PAY LESS FOR BETTER PARTS

YOUR VALVES

It will pay you to purchase your valves from us because we test every valve in the Jewell Valve Tester before sale. Some valves will burn but will not function. The Valve Tester will disclose this.

	£	s.	d.		£	s.	d.
Radex Valves, Guaranteed up to Standard, made in 199 and 201A types, Bakelite Base	0	8	9	Lightning Arrestors, "Muter"	0	2	9
Radiotron Valves, UV199 and UV and UX201A	0	15	6	Variometers, K. & C. Midget, cover to 800 metres	0	12	6
B405 Philips Valves, American or English Base	0	13	6	Variable Condensers, K. & C. 81-Plate, with Pigtail	0	12	6
Battery Chargers, "Philips," Charges A & B Battery	6	17	6	Neutrodyne Kits, Grodan	1	7	6
Battery Chargers "Philips," Charges A only	6	0	0	Neutrodyne Kits, Grodan Adjustoformer	1	12	6
Fixed Condensers, Brassfoil and Mica, .00035, .001	0	1	6	Sockets, with Metal Shells, 199, 1/6; 201A	0	1	11
Fixed Condensers, Brassfoil and Mica, .005	0	2	0	Porcelain Sockets, for 201A Base Valves	0	4	0
Resistors, Fixed, 50,000 ohms and 100,000 ohms	0	4	6	English Sockets, Base Mounting	0	1	3
Potentiometers, Ajax, 400 ohms	0	3	0	Spider Formers, with Pins, 1/8; Adjustable	0	1	9
Straight Line Frequency Condensers, "Pilot," .00035	0	11	6	Pins and Sockets, for use with the above, pair	0	0	9
Rubber Ear Cushions, Headphone Comfort	0	2	7	Double Phone Terminals, Nickel-plated, each	0	0	6
Aerial Earthing Switches, on Porcelain Base	0	1	11	Telephone Terminals, Nickel-plated, doz.	0	1	9
Panel Mounting Switches, DPDT 2/, SPDT	0	1	8	Telephone Cords, per pair	0	2	3
Aerial Wire, Seven Strands, 20 gauge	0	2	6	Bus Wire, in straight 2-foot lengths, Round or Square, per doz.	0	0	11
Arrestors, Lightning Arrestors, "Muter"	0	2	9	Solder, Resin Cored, per 12-inch length	0	0	3
				High-grade Resin Solder, "Kester," per tin	0	2	0
				Vernier Buttons, makes any Variable Condenser and Vernier one	0	1	2

SPECIAL

Columbia Three-Coil Holders
Inside Mounting

11/6

Here every Friday Evening: Mr. W. L. HAMILTON ("Insulator"), whose articles in "Wireless Weekly" are well known, will solve your problems FREE.

COUNTRY CLIENTS: We pay carriage on goods to the value of 10/- and over, except on Batteries and Loud Speakers. Goods can be sent Value Payable Post.

"Yours for Lower Prices."

The ECONOMIC RADIO STORES

25 Royal Arcade

569 Hunter St. West

Between Pitt & George Sts. (Near School of Arts)

SYDNEY

NEWCASTLE

Phone M 3049

Phone, Newcastle 1622

"Sun" newspaper will discuss racing form and provide excellent tips for the following day's racing. It is interesting to note that the tips already given by his gentleman have proved themselves entirely satisfactory to the majority of the punting public who listen in eagerly for first-hand information of this nature. The travelogue on this occasion will deal with Egypt and some of the sights and scenes to be witnessed in that part of the world. As Mr. J. M. Prentice spent a year in Cairo, and knows the various aspects of Cairena life and society to perfection, it is anticipated that this will prove one of the most interesting of the travel talks. It is even whispered that during the period of his sojourn in this ancient capital, Mr. Prentice made himself sufficiently acquainted with the Arabic language to mix freely with the Egyptian population, and consequently obtained first-hand impressions outside the range of the experience of the average tourist.

DUNGOWAN LATE DANCE MUSIC.

From 2BL on Saturday afternoon, May 15th, the sporting session of information transmitted from the "Sun" office will be found. This is decidedly popular, and some rather striking records have been made in regard to the transmission of information. On numerous occasions the actual results of the races have been on the air within 90 seconds of the scoring boards being hoisted at the racecourse. A great amount of appreciation has been expressed for the admirable way in which these sporting sessions are conducted. Bringa, the authority on the Australian Aborigines, will be featured during the Bedtime Stories, and Madame Vera Tasma will be heard on the evening programme. It is difficult to find words to describe the beauty of this artist's voice. The exquisite ease with which Madame Vera Tasma sings is a lesson to all young artists. Mr. Fred R. Gooch, humourist, is also being featured on this programme in numbers composed by himself. Monologues and humour at the piano are his speciality. The Dugowan Cabaret Orchestra completes the programme for this evening.

UNIVERSITY DEBATE.

On Friday, May 7th, in the evening the final Imperial Debate will be transmitted by 2FC from the Union Hall, University, between the Imperial Debating Team representing the Universities of England, Scotland, and Wales, against the Sydney University. The subject of the debate will be, "That woman has more than come into her own." At the conclusion of the debate items from the studio will be given by the 2FC Dance Band. A new soprano from South Africa, Miss Anna Dorna, and other items.

EXHIBITION BROADCASTS.

As Saturday, May 8th, is the final day of the Radio and Electrical Exhibition at the Town Hall, 2FC will transfer its studio to the Town Hall platform, and from 8 to 9.30 p.m. give a special programme from there. This will include the first appearance in Australia of a new combination, directed by Mr. Rieho, of a Saxophone Band of nine members, a most unusual combination, capable of producing dance music and sacred music with realistic effect. Other artists at the Town Hall will be Partington's South Sydney Band; Miss Mabel Batchelor, soprano; Mr. Ernest Archer, tenor; Banjo Band, supplied by Harrison White. After 9.30 the programme will be continued from the ordinary studio, including dance music from the Wentworth.

SUNDAY SERVICES.

The morning service on Sunday, May 9th, will be taken from St. Stephen's Presbyterian Church by 2FC. In the afternoon, commemorating Mothers' Day, the Y.M.C.A. has arranged a special programme for broadcasting. In the evening the usual service from the Pitt Street Congregational Church; preacher, the Rev. Ruth. The second part of the programme will be taken from the studio. This will include the appearance of Mr. Alfred O'Shea, the well-known tenor, Miss Marie Segur in a special programme of French solos and numbers, with items by 2FC Orchestra.

MUSICAL CHAIRS BY RADIO.

Quite recently a letter reached 3AR studio, Melbourne, from one of their young listeners-in asking that Uncle Rad would provide music for the Musical Chairs at her birthday party.

In the absence of Uncle Rad on that evening Uncle Peter got into telephonic communication with the child and ascertained how many chairs were in use for the game.

After this the game was played with great success the name of the winner was telephoned to the studio at the conclusion of the game.

It is worthy of note that Uncle Rad (Mr. H. R. Watson) is the originator of this interesting method of helping at the parties of 3AR juvenile listeners and this novel game bids fair to become very popular among the children.

MORSE CODE COMPETITION.

S. McCarthy, Macleay Street, Kempsey, was the winner of the April 20th Morse Code Competition from 2WW.

The word sent was QATSLEGLGS.

Will competitors in future kindly mark their envelopes plainly, "Code Competition."

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.0005 mfd. 23 PLATE, WITH DIAL	25/-
.0003 mfd. 17 PLATE, WITH DIAL	22/6

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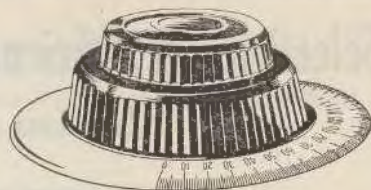
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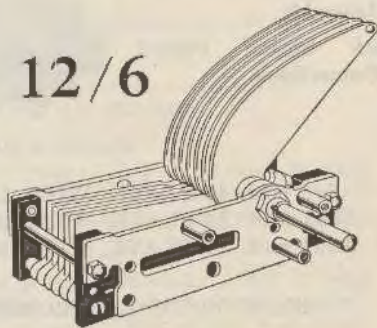
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Variable Condenser. Gives silent
and smooth action, .0003 capacity.
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DAVID JONES'

FROM HERE AND THERE

BROADCASTING THE ANZAC MARCH FROM 3AR, MELBOURNE.

From a position immediately opposite the Cenotaph on Sunday (April 25th), Mr. Jack W. Mackenzie, broadcasted through 3AR a very fine description of the Anzac March. Commencing at 1.30 p.m. he gave a well thought out address on the celebration in general and the bands playing at the Cenotaph were distinctly heard.

Shortly before the approach of the procession, Miss Ada Reeve broadcast a speech addressed more particularly to the wounded in the Caulfield Hospital and the McLeod Sanatorium who were unable to view the actual march.

Mr. Mackenzie, in his description gave very vivid particulars of the various units as they passed the Cenotaph and emphasized the respectful and thoughtful attitude of the vast crowd and the processionists. The time occupied by the troops in passing was about three quarters of an hour. At the conclusion of the description Miss Ada Reeve sang a verse of the well known song "The Long Long Trail" and so brought to a close a very impressive and touching broadcasting effort.

COSSOR VALVES.

Mr. A. H. Carter has just arrived from England to take over Factory Representation of the well known British Made Cossor Valves. Intimately associated with Cossors in England, Mr. Carter's mission is to place the Cossor Valves on the Australian market. The firm of Cossors have been manufacturing valves since 1906 and supplied the Admiralty and War Office with transmitting and receiving tubes during the war. Cossors valves are manufactured in a full range, radio frequency, detector and audio amplifiers. Most of the great hospitals throughout Great Britain are using X-Ray tubes also manufactured by Cossors. Mr. A. H. Carter's address is 20 Clarence Street, Sydney, and he anticipates big stocks of Cossor Valves being available in the near future.

THE HOWELL REINARTZ.

Mr. V. G. O'Brien, of Melbourne, writes his appreciation of the Howell Reinartz receiver described in "Wireless Weekly" of September 4th, 1925. "The first time I operated it," he writes "I had the pleasure of hearing 3UZ, 2BL, 3LO, 4QG, 5CL, and 3AR in that order. 2BL, 4QG, and 5CL are logged at very good phone strength, 4QG particularly. The local stations, of course, come in at tremendous loud speaker strength."

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

NEW ZEALAND LISTENS TO SYDNEY'S RADIO.

Residents of New Zealand continue to write to the Australian broadcasting stations expressing their pleasure on being able to receive the broadcasts which are really intended for Australian listeners. A Mr. N. Denkin, of Hawkes Bay, New Zealand, has just written to station 2BL, saying: "Your broadcasting is coming in here with great punch. Your programmes are quite up to the standard. No one could wish for better, and I, with many others, have many an enjoyable evening listening to you."

TRADES HALL RADIO DINNER HOUR SERVICE.

Mr. E. R. Voige, Chairman of the Trades Hall Wireless Committee, states that it has been decided by the management of the Trades Hall Broadcasting Station 2KY, to broadcast each day a special session between the hours of noon and 2 p.m. for the benefit of those work-shops which are installing loud speaker receiving sets.

At the midday service there will be broadcast each day a complete list of the various meetings of trade unions which are convened in the Trades Hall during the evening, together with a short resume of the business for which each meeting is called.

During the evening service the management will broadcast particulars of all the trade union meetings convened in the Trades Hall for the following day. This service will no doubt be greatly appreciated by the many thousands of trade unionists who take a keen interest in the affairs of their own union.

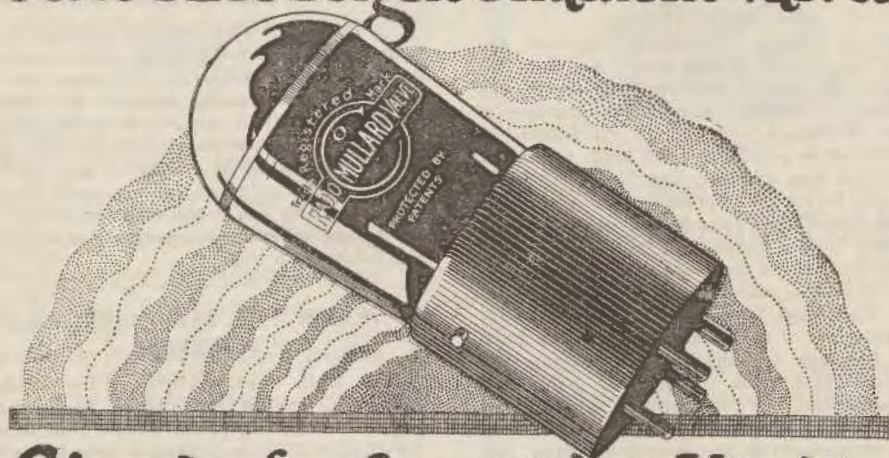
An educative and informative series of lectures on Labor Legislation and on the sciences from the working-class standpoint are being regularly broadcast from 2KY, and an effort will be made to standardise the times at which the lectures are broadcast, so that all listeners know that lectures take place at a given hour each evening.

The wavelength of 2KY is 280 metres.

HOSPITAL SET FOR BRADFORD.

The Bradford (England), Royal Infirmary is being fitted with wireless apparatus enabling each of the 215 patients to listen in. The equipment, which has cost £320, has been provided by students of the Bradford School of Art.

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THE PROGRAMMES

PROGRAMME COMES BACK.

April 22nd 1926.

(To the Editor.)

Sir,—I have read with much interest the various replies to my letter published by you on the 15th inst., and am glad to note the volley of replies to same.

First of all I would like to refer particularly to the reply of "Appreciative," I feel confident that he has entirely mistaken my meaning, possibly I was not explicit enough, but I will try to be a little more explanatory this time. I fully appreciate his remarks upon the cost of running a broadcasting station, and would remind him that this point has not for an instant been lost sight of, if he would read my letter again I think he would find that I did not suggest doing away with talks, far from it, but, I did make a special remark that 3LO more often than not, broadcast all talks before the hour of 8 o'clock, leaving the rest of the evening to other items. I did say that talks were incessant, and this I still claim, the reason being that sometimes two or three are broadcast in one evening, my contention being that these should have a set time, and not be intermingled with the rest of programme. In this way, those who cared to hear them, would be able to do so in the same manner as they are doing now, and those who do not care to listen can wait until they are over and then tune-in. I consider that this would be a far more satisfactory way for everybody concerned, and fewer complaints would be made, in fact it would leave no room for complaint, but the way that they are placed on the air at present, leaves the way open for very severe criticism, and possibly "Appreciative" will grant me this point, any how.

I am perfectly in agreement with "Appreciative" in his remark that tastes differ very widely, and surely the above remarks will convince him that changes, as enumerated, will by no means do listeners out of those very instructive and educational items.

As for the heavy musical items, which I termed "sob music," there is no need whatever to do away with these either. Do you not consider that listeners' tastes right through, would be satisfied with an operatic night a week, instead of these items intermingled with lighter music, as is done now? True there is a growing appreciation for great Masters, which appreciation would be far greater if they were kept to themselves. Why mix classics with jazz as is done now? A mixture of this sort is far from complimentary to either the great

Masters, or those who write in lighter vein. By little changes such as these, the programmes would be far more enjoyable to everybody concerned, and my contention in a nutshell, is, talks at the proper time, and the classics on their own, by this means, no room could be left for just criticism, because everyone would get what they require, and it will satisfy the most exacting of tastes. I mentioned various items in my letter which I have just found out are backed up by a plebiscite which is now being taken in Victoria, and those correspondents who have found that they cannot refrain from answering and criticising my letter, would do themselves a certain amount of good by writing the "Args" for a voting paper, and see which way the wind blows.

I cannot of course, answer all critics, but I must thank "Melody" for his remarks, as he seems to be one who fully grasps my meaning right through. At the same time, I would like to inform "Logic" I am not living in a stage of ignorance, and I am not looking for any pity. I plainly stated what had come to my attention, while travelling through Sydney, daily, for quite a few years past. In these days it is impossible to hear remarks passed daily and not take notice of them, when they come so often, and these remarks have not by any means all come from those who gloat over scandal and murders as friend "Lecture" and "Music—not Jazz," suggests. My criticism is far from destructive, it is more constructive than otherwise, and I find it impossible to deviate at all from my original remarks, and possibly, with additional explanations, your readers will see a little more eye to eye with me. I did not glean my remarks from people who do not think. I can assure your correspondent that my remarks were well thought out before I wrote, and would suggest he again read the letter, and with the use of a little "grey matter" with which he is possibly endowed, he will see things more plainly and in their true light.

Thanking you again for your kindness and wishing you all success,

"PROGRAMME."

TALKS ACROSS THE ATLANTIC.

The possibility of conversing with America on a telephone in private houses was demonstrated lately, when Sir Evelyn Murray, Secretary of G.P.O. (Eng.), exchanged greetings with a friend in New York from his home in Manchester Square, London. Mr. E. H. Shaughnessy, Assistant Engineer-in-Chief of the Post Office, spoke to New York from his Streatham residence.

The transmissions were conducted from the Rugby station.

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This sixteen page booklet tells illustrated, tells in simple words how to assemble the King Neutrodyne Kit.

VICTORIAN BROADCASTING NOTES

Station 3LO, Melbourne, still retains pride of place in virtue not only of the variety and also of the quality of its programmes, but even more so because of the evenness of its transmission. Around Victoria there really should not be much difference between the reception of A and B class stations, but it must be confessed that, much as we would like to praise up 3AR for some of its exceptionally interesting programme items, we have scarcely time to put down half a dozen words of praise to paper when down comes 3AR from its high estate, like Darius of old and is fallen, fallen, fallen indeed. Our contemporary in Adelaide mercifully remarks that an average of three good transmissions a week is not bad—for 3AR—which is surely damning with faint praise! The worst that can be said of 3LO in this regard is that when anyone writes to the papers in terms of censure, it is always to pick on 3LO, as if there were no other station worth mentioning in the same street.

This is rather rough on poor 3AR, as even to be censured in the press is good advertisement and keeps the public aware that such a station is still in existence. But really 3AR is well worth listening to at times. To-night (Sunday) for example, there was little to choose between a violin solo at 3LO and a similar orchestral item at 3AR, that of 3AR being, if anything, the more likely to be acceptable to the general run of listeners. The trouble with 3LO's music is that it all seems to come out of the same box, and the very fine orchestra very apparently tires at times of the monotonous numbers. Is it permissible to admit that the permutations and combinations of Gotschakoff and other names with the inevitable Kreisler are becoming a public nuisance and ought to be mitigated? Undoubtedly the recent move of 3LO in the direction of broadcasting provincial concerts is decidedly upwards and to the right.

A peculiar critic in the "Age," recently asked what he described as "three pertinent questions" of 3LO, and if 3LO had been equally as impertinent it could truthfully have answered the three questions in three words thrice repeated, namely, "It isn't!" At the same time, 3LO must surely have itself recognised by now that the size of its studio will have to be increased before justice can be done to many of its truly first-rate performers. Chaliapin, the Russian tenor, who is to come out here shortly and will probably be broadcast by 3LO, stated in an interview after he had sung for the

B.B.C. that he felt the limitations of a small studio very much, and the scarcity of the visible audience present (only about 60) gave him a feeling of restraint. If "only 60" persons were present in 3LO's studio the feeling would be that the audience was altogether too huge, if not for the singer, then at least for the studio. Besides this, the resonance effects in a small room indubitably affect the transmission, but it is probable that 3LO is finding some difficulty in securing the sole use of a large hall that would be suitable for its purpose.

When the big voice of Billy Bunny booms out during the children's hour, little Mike is evidently discomfited; and the high notes of a soprano or the deep notes of a basso make little Mike shiver in both shoes at once. That is probably the sole reason why singers at Wesley Church, for example, sound much better than at the studio. 3LO is getting altogether too big for its present boots, but it is not a matter of giving itself notice to quit and moving overnight by the light of the silver moon. A broadcasting company is not built that way.

Leaving the bigger stations, great praise is surely due to the very attractive programmes now being so effectively broadcast by amateur station 3SW. Mr. Gadson's work reflects the greatest of credit, not only on his skill in transmission, but on the good taste which impelled him to secure the records and very interesting, if somewhat "er-ah-er" explanations of the President of the Phonograph Society. As one irritated listener to these well-thought-out but badly enunciated remarks concisely put it: "To err is human, but to keep on er-er-er every half dozen words is exasperating." This notwithstanding, the work of both Mr. Gadson and his talented "announcer" is on the highest level of excellence.

The above opinion must not be taken as dethroning that other amateur broadcaster, 3CR, from its most unique pedestal. To broadcast phonograph music well is exceptionally good, and 3CR has been doing that since the days when the memory of hams runneth not to the contrary. The records are not as hackneyed as 3SW's but they are well reproduced. 3CR, however, takes the palm for its typical "studio" items that frequently introduce performers and performances on a level with very great stations indeed. When one reflects that 3CR is housed in a small suburban cottage on a pocket-handkerchief allotment, and yet has been heard far out to sea West of our furthest west, although its apparatus is not in the least imposing in appearance one cannot too cordially express admiration for its achievements.



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22½ volts. Five positive brass screw terminals arranged to give 16½, 18, 19½, 21 and 22½ volts from the negative. This battery is specially designed for use with soft detector tubes.

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15-90	13/6	9 months	6¼ x 4 3/16 x 3¼	5 lbs.



No. 30-05 each 26/-

45 volts. 30 cells. Standard square type. Gives most economical service on 3 and 4 tube sets. Six positive brass screw terminals give 16¼, 18, 19½, 22½, and 45 volts from the negative. Designed for sets using 45 or 90 volts. Taps make it suitable for use with soft detector tubes.

Cat. No.	List Price Each	Gtd. Shelf Life	Weight	Length, Width, Height
30-05	26/-	9 Months.	9½ lbs.	6¼ x 8 x 3

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stations in Australia on high or low wavelength, even using a small indoor aerial, without any interference whatsoever. This is a product of the Burgin Electric Co. Ltd.

DE FOREST D.V.3 VALVE.

The De Forest D.V.3 Valve is a dull emitter, taking three volts and .06 of an amp on the filament. Three 1½ volt dry cells will work it for months. An exclusive feature of the D.V.3. is that



it will fit the standard American socket which constitutes a decided advantage. The wholesale agents for this attractive valve are the International Radio Company Limited.

AN ADJUSTABLE GRID LEAK.

The CRL adjustable grid leak is a product of the Central Radio Laboratories, U.S.A., and is a most efficient piece of apparatus specially constructed for extremely sharp tuning. It is not of the pencil-mark type but is built with a permanent resistor strip impregnated with a high resistance compound of tested permanence. The current from the grid leaks along this strip, the amount being accurately regulated by the adjustment of a curved phosphor bronze spring held in place by a compression block. The adjustment is controlled by the operating knob. The distance between the



centres of the binding posts on the C.R.L. Adjustable Grid Leaks is about 2½ inches which is just right for mounting a standard grid condenser. This instrument is now obtainable on the Australian market, through United Distributors Limited, Sydney.

ACCURATUNE DIAL.

One of the most useful aids to better broadcast reception at present on the market is the Accuratune Micrometer Control which is handled by David Jones Radio Department. This is a special dial which, when fitted to the ordinary condenser shaft insures a vernier gearing of 80-1, thus making fine control extremely simple.

The Accuratune may be had showing graduations from 0-180 left to right or vice versa so that it may be adapted to condensers over any rotation. It is particularly useful for either low loss work or on broadcast receivers where long distance results and very fine tuning are required. With a beautifully marked scale and constructed of the best material, the Accuratune dial forms one of the best assets to a receiver, that we have yet seen.

PHILCO—"Experience Teaches"—BATTERIES

The Transmission of Pictures by Wireless

VIENNA AS A CENTRE.

Belin is the man who has made the most important advance in rendering practicable the aims of radio picture telegraphy, a subject by no means new, but one upon which much thought has been expended (says "Radiowelt"). We are not much given to believing in chance in these matters. Therefore, we think that it was not pure chance that only this Frenchman, amongst many experimenters, has attained so nearly to the desired goal. It is Belin who has so far perfected radio picture telegraphy as to render possible the maintenance of a regular service between Malmaison and Lyons and between Lyons and Toulouse with his apparatus.

A service between Vienna and Graz is now in immediate contemplation. Belin is coming to Vienna by invitation, and will carry out his experiments here. These are rather of the nature of final experiments. We have no longer to consider "whether it will work," but rather "how it will work"; that it will work is beyond all question. Thanks to the presence of the French inventor, Vienna will become, for the time being, the most important city in Central Europe so far as picture telegraphy is concerned. For the time being! That remains to be seen. Vienna is the capital of a small Republic, but it possesses a large number of undeniable advantages. It appears to us that, within a measurable time, the world will have a series of picture telegraphy stations: that Vienna should be one depends on whether it maintains the not inconsiderable lead it has at present.

The necessary technical foundation is present in Vienna, which is still an important news centre, and which possesses a highly esteemed graphic industry. It has also a very weighty political position. Those things, however, of themselves, scarcely constitute facts of preponderating importance. As we have stated above, we have a fine handicap in our favour; we must not lose it, but must increase our lead.

Belin is already warmly attached to Vienna, where he studied under Dr. Eders in the Institute for Graphic Research. With him here Vienna is deeply committed to the picture telegraphy business. "Radiowelt" is pleased to remind you that it was this magazine which always insisted on the practical importance of picture telegraphy. It was through the visit of our editor-in-chief to Belin, and through the influence of this journal, that Belin was prevailed upon to transfer his sphere of labour temporarily to this city. By these means we hoped not only to become acquainted with, and to inspire the confidence

H. & H. Grid Leak Resistance

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

Variable Grid Leak Resistances

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

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

Grid Leak Resistance Mounting



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

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

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

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

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- Rheostats
- Variable Condensers (Low Loss Type)
- Mica Condensers
- Transformers (Audio)
- Push-Pull Transformers
- Jacks and Plugs
- Potentiometers
- Dials and Knobs
- Battery Switches
- Lever Switches
- Etc., Etc.

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

of, a very distinguished man, but we were thinking also of the enormous and untrodden field which still lies before radio, even in these days of the triumphal march of broadcasting.

The practical utility of pictura telegraphy is great; its theoretical value is like that of a preparatory school. But we should not, and we shall not, stop at pictura telegraphy. It is to be regarded only as one of the halting places on the road leading us on to those long dreamed of destinations of tele-cinema and tele-vision. Just think of the serene confidence with which we pronounce such words! It means that we have already learnt a little of what is meant by them: it means that we regard what they stand for as within the realm of possibility. When they become established facts—and we are striding along in "seven league boots"—they will be just as much marvels as they are to-day. The marvel which has been attained is the greatest marvel of all.

NEW ZEALAND LISTENERS-IN.

NEW RADIO SCHEME READY BY JUNE 30.

The New Zealand Electrical Federation, on behalf of the Auckland and Wellington Radio sections, recently waited upon the authorities in connection with the establishment of broadcasting stations at Auckland and Christchurch. As a result, an official assurance has been given that the Radio Broadcasting Company of New Zealand Limited, will have the stations erected and in working order at Auckland and Christchurch by June 30. The masts for the Auckland station were shipped on the City of Bombay, from New York, on April 8, and are due to arrive in Auckland on May 18. A portion of the necessary apparatus has also been shipped, and the balance is reported to be coming forward immediately. It is further stated that provision has been made for the immediate installation of the apparatus, and that an expert would come forward to operate the stations. To date the Broadcasting Company has made commitments to the extent of £15,000.

An assurance was received that the proportion of the listeners in licenses paid to the company had been expended entirely for the purpose of preparing programmes. A suggestion was made to the authorities that attention should be given to the organisation of suitable programmes prior to the erection of the stations, so that delays in this direction would be obviated. In the circumstances it is felt by the federation that the outlook from the broadcasting viewpoint is better to-day than it has been for some considerable time.

H.T.4—30 volts. Similar in construction to the H.T.3. This model is convenient for those who prefer to have their high tension supply in 30 volt units. In hardwood case as illustrated.




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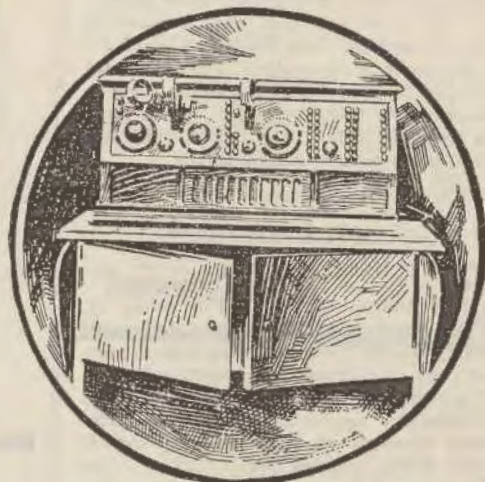
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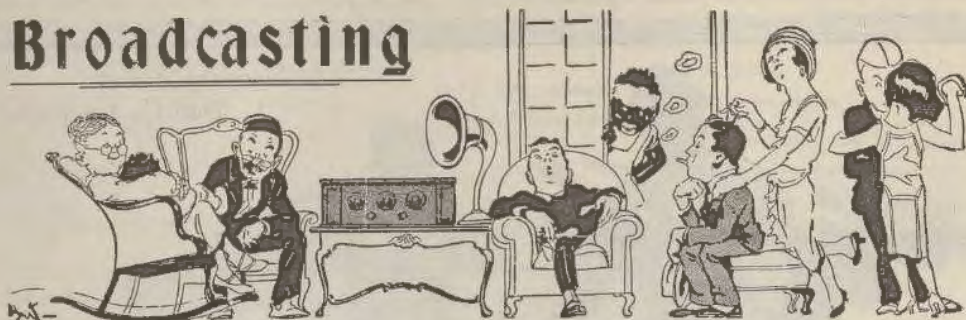
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Broadcasting



4QG

QUEENSLAND RADIO SERVICE.

Wavelength, 385 metres.

FRIDAY, MAY 7.

Midday Session.

12.45—"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.

3.30—Music from the Studio.

7—"The Farmers" Session; Market Reports; Lecturette—The Importance of Farm Costing, by Mr. A. H. Bentley (Secretary, Council of Agriculture).

Night Session.

7.45—Lecture Session—A talk arranged by the Worker's Educational Association.

8—An Instrumental Night, Part I: The Federal Band.

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

8.55—Announcements.

9—Part II. The "Savoy" Orchestra.

10.5—From the Hibernian Hall—Half an hour's dance music by the Black and White Syncopators.

10.30—Close down.

SATURDAY, MAY 8.

No Midday Transmission.

The Children's Hour.

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

6.25—"Tune-in" Signal.

6.30—The Children's Session; Bedtime Stories by Uncle Ben, assisted by Mabel Sunshine.

7.15—Close down.

Night Session.

State Election Results.

The whole of to-night will be devoted to the broadcasting of the results of voting in connection with the Queensland State Elections. Arrangements have been completed for the supply of the latest election figures to station 4QG by Mr. G. A. Carter (Under-Secretary for Justice), who is the officer in charge of elections, 1926.

As far as possible complete sets of pro-

gressive figures for the whole State will be given regularly each half-hour from 8 p.m. until midnight.

Between the broadcasting of the figures a programme of vocal numbers will be provided.

SUNDAY, MAY 9.

Morning Session.

The complete morning service from St. Paul's Presbyterian Church, Spring Hill, will be relayed.

10.55—"Tune-in."

11—Service from St. Paul's. Preacher: Rev. Jas. Walker, M.A., B.D.

Afternoon Session.

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

3.10—"Tune-in."

3.15—Band Concert.

4.30—Close down.

Night Session.

The complete evening service from St. Paul's Presbyterian Church, Spring Hill, will be relayed.

7.25—"Tune-in."

7.30—Service from St. Paul's. Preacher: Rev. Jas. Walker, M.A., B.D.

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, MAY 10.

Market Reports.

1.30—Close down.

3.25—"Tune-in."

3.30—From the Tivoli Theatre—By courtesy of the Directors of Haymarket Theatres Ltd., a quarter of an hour's music by the Tivoli Operatic Orchestra will be relayed.

3.45—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—"The Farmers" Session—Market Reports supplied by the Council of Agriculture. Lecturette—Poultry on Mixed Farms, Mr. P. Rumball (Poultry Instructor).

7.20—News Service supplied by "The Telegraph."

7.30—Close down.

Night Session.

7.45—Lecture Session—Motorists: Correct Lubrication Talk No. 4, by "Cargyle."

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 4QG Artists. Close down.

TUESDAY, MAY 11.

Midday Session.

12.55—"Tune-in" signal.

1—Market Reports and News Service supplied by the "Daily Standard"; Stock Exchange.

1.30—Close down.

Afternoon Session.

3.25—"Tune-in."

3.30—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; Lecturette—The Influence of the Press, Mr. G. S. Webb, Editor "Queensland Producer."

7.20—"The Telegraph" News.

7.30—Close down.

Night Session.

7.45—Lecture Session—Popular Science Talk No. 2, by "Vega."

Portion of to-night's programme will be provided by the Brisbane Apollo Club (formerly Leidertafel), under the leadership of Mr. Leonard Francis.

8—Apollo Club Concert.

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

8.55—Announcements.

9—Studio Concert.

9.55—"The Daily Mail" News Service.

10—Close down.

WEDNESDAY, MAY 12.

Midday Session.

12.55—"Tune-in" signal.

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

1.30—Close down.

Afternoon Session.

3.25—"Tune-in."

3.30—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 Little Miss Brisbane.

7—"The Farmers" Session. Market Reports; Lecturette—Basic Prices for Farm Produce, Mr. A. R. Wight (Markets Officer, Council of Agriculture.

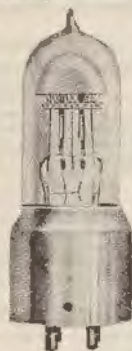
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starts his deadly work. His name
is Heat. Sometimes he works
quickly and sometimes he works
slowly. But all the time he is
planning the destruction of your
valves and stealing valuable hours
of usefulness from their lives.
For years science has been waging
a stiff fight against his nefarious
practices and for years little or no
impression could be made upon
him. But at last there came a
valve with a filament which made
use of new principles — a valve
which at one stroke definitely got
to grips with this crippling influ-
ence—the Wuncell Dull Emitter.
Let's investigate further. The old
bright emitter possessed a tungsten
filament which required a very
high temperature — as much as
2000°—in order to create the neces-
sary stream of electrons. Such a
temperature — coupled with the
constant expansion and contrac-
tion of the filament—rapidly caused
brittleness and disintegration.

In other words, the intense heat
—while necessary for the prolific
production of electrons—robs the
filament of many hours of useful-
ness. But if the temperature is
reduced—then the electron stream
is impoverished, too.

So other means had to be sought.
Instead of Tungsten, the Wuncell
uses a filament which is built up
layer upon layer under a secret
process known only to Cossor.
This external covering emits a
copious supply of electrons at an
extraordinarily low temperature. In
fact, at 800° the Wuncell produces
more electrons than a bright emit-
ter valve does at 2000°. The Wun-
cell goes a long way towards ban-
ishing heat from the valve altogether—
at all events 800° is no more
than a dull red glow practically in-
visible in daylight. When you
choose the Wuncell for your set,
therefore, you get a valve which
has the longest life of any be-
cause it is the only valve which so
effectively reduces the ruinous in-
fluence of heat.

Cossor Valves

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7.20—"The Telegraph" News.
7.30—Close down.

Night Session.

7.45—Lecture Series—Tourist Talk.
8—An Irish Night.
8.50—Weather information officially supplied by the Commonwealth Weather Bureau.
8.55—Announcements.
9—Irish Night—Continued.
10—The Daily Mail News Service; Close down.

THURSDAY, MAY 13.

Midday Session.

12.55—Turkino 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.

3.25—Tune-in.
3.30—Music info 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; Lecture-site—The Farmer's Place in the Community, M. Mr. A. S. Douglas.
7.20—"The Telegraph" News.
7.30—Close down.

Night Session.

8.45—Studio Concert.
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.

5CL

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FRIDAY, MAY 7.

Morning Session (11.30 a.m. to 2 p.m.)
11.30—G.P.O. Chimes.
11.31—Featuring a Steek Duo Art number.
11.40—"Advertiser" News Service.
12—G.P.O. Chimes.
12.1—News and Cable Service.
12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra Selection; cornet solo; fox trot; Venetian waltz; country dance; waltz; instrumental trio; selection; finale.
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.
2—G.P.O. Chimes.

Afternoon Session (3 to 5).

3—G.P.O. Chimes.
3.1—Relay from Maple Leaf Cafe; Orchestral numbers.
3.45—Broadcast from Studio; Serial Story.

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

Evening Session (6.30 to 10.30).

6.30—G.P.O. Chimes.
6.31—Bedtime Stories for the Children.
7.30—Stock Exchange, Market Reports and Station Announcements.
7.40—Sporting Talk by "Old Timer."
8—G.P.O. Chimes.
8.1—Studio Concert arranged by Miss Linda Wald.
9—G.P.O. Chimes.
9.1—Weather Reports.
9.3—Studio Concert—continued.
10.15—Studio Concert—continued.
10.15 approx.—Advertiser News Service.
10.30—Station Announcements; National Anthem.

SATURDAY, MAY 8.

10.30—G.P.O. Chimes.
10.31—The 5CL Studio Orchestra will play: Selection; violin solo; fox trot; waltz; oriental; novelette; selection; cornet solo; finale.
Sporting Results when available.
Steek Duo Art and Vocal Numbers.

Evening Session.

6.30—G.P.O. Chimes.
6.31—Bedtime Stories for the Children.
7.30—Market reports and station announcements.
7.40—A review of the world's chief sporting events.
8—G.P.O. Chimes.
8.1—Relay from Parkside Baptist School Hall.
8.45—The H Lecture.
9—G.P.O. Chimes.
9.1—Weather Reports.
9.3—Parkside Relay—Continued.
10.1—Parkside Relay—Continued.
10.21—"Advertiser" News Service.
10.30—Station Announcements; National Anthem.

SUNDAY, MAY 9.

Morning Session:

11—Broadcast from St. Bartholomew's Church, Norwood—Divine Service. Preacher: Ven. Archdeacon Meyers, M.A.

Afternoon Session.

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

Evening Session:

6.30—G.P.O. Chimes.
6.31—Bedtime Stories for the Children.
7—Relay from Exhibition Building—Mission Service of Gipsy Smith.
8.45 approx.—Relay from Parkside Baptist Church. Station announcements; National Anthem.

MONDAY, MAY 10.

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

11.30—G.P.O. Chimes.
11.31—Featuring a Steek Duo Art number.
12—G.P.O. Chimes.
12.1—News and Cable Service.
12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Overture; violin solo; fox trot; waltz; dance passion; selection; cornet solo; waltz; finale.
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.

2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

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

Evening Session (6.30 to 10.30).

6.30—G.P.O. Chimes.
6.31—Bedtime Stories for the Children.
8—G.P.O. Chimes.
8.1—Studio Concert arranged by Miss Sylvia Thomas.
8.20—Twinkler's Original Humorous Talk (Mr. F. J. Mills).
9—G.P.O. Chimes.
9.1—Weather Reports.
9.10—Talk on Photography, arranged by Harringtons, Limited.
10—G.P.O. Chimes.
10.45—Station Announcements; Tomorrow's Programme; National Anthem.

TUESDAY, MAY 11.

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

11.30—G.P.O. Chimes.
11.31—Featuring a Steek Duo Art number.
12—G.P.O. Chimes.
12.1—News and Cable Service.
12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Overture; cello solo; fox trot; an idyll; novelette; selection; instrumental trio; waltz; finale.
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis and Station Announcements.
2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

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

Evening Session (6.30 to 10.30).

6.30—G.P.O. Chimes.
6.31—Bedtime Stories for the Children.
7.30—Stock Exchange, Market Reports and Station Announcements.
7.40—Radio Talk by Mr. D. J. Gunner.
8—G.P.O. Chimes.
8.1—Studio Concert arranged by Mr. Hawke.
8.30—Cookery Talk arranged by S.A. Gas Co.
8.40—Studio Concert.
9—G.P.O. Chimes.
9.1—Weather Reports.
9.3—Studio Concert.
10—G.P.O. Chimes.
10.1—Studio Concert.
10.30—"Advertiser" News Service.
10.50—Station Announcements; National Anthem.

WEDNESDAY, MAY 12.

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

11.30—G.P.O. Chimes.
11.31—Steek Duo Art and Aeolian Vocalion Records.
12—G.P.O. Chimes.

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- 12.1—News and Cable Services.
 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Overture; Cornet solo; romance; fox trot; waltz; oriental; selection; Mexico; finale.
 1.35—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis, and Station Announcements.
 2—G.P.O. Chimes.

Afternoon Session. (3 to 5).

- 5—G.P.O. Chimes.
 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.
 7.30—Copey Lecture, Mr. N. Crocker, M.A.
 8—G.P.O. Chimes.
 8.1—Relay from South Australian Railways Institute Hall by the S.A. Railways Institute Glee Club, under conductorship of Mr. Rowden R. Robinson, and S.A.R.I. Orchestra under leadership of Signor P. Angerami.
 8.30—Science lecture arranged by Messrs. F. H. Fauding & Co.
 8.40—Relay from S.A. Railways Institute, continued.
 9—G.P.O. Chimes.
 9.1—Weather Reports.
 10.30—From the Studio, Musical Numbers.
 10.40—Station Announcements; National Anthem.

THURSDAY, MAY 13.

- 11.30—G.P.O. Chimes.
 11.31—Featuring a Steek Duo Art number.
 11.40—"Advertiser" News Service.
 11.55—Vocalian Number.
 12—G.P.O. Chimes.
 12.1—"Advertiser" News Service.
 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play; Selection; cello solo; fox trot; waltz; dance; Tenor solo; 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. Whittenbury.
 7.30—Market Reports.
 7.40—Poultry Talk by Mr. A. M. Whittenbury.
 8—G.P.O. Chimes.
 8.1—5CL Studio Orchestra. Approx.
 10.15—"Advertiser" News Service.
 10.30—Station Announcements; National Anthem.

2KY

WEEKLY BROADCASTING PROGRAMME.

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FRIDAY, MAY 7.

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

Evening Session.

7.30—Latest News Items; Miss Esme Ditch, L.L.C.M.; Miss Maizie Carroll, soprano; Mr. Alf. James, baritone; Mr. Beard, Technical Designer of 2KY, Wireless Lecture; Labor Research Bureau, Political and Industrial Topics; Miss Ivy O'Neill, contralto; Mr. J. Fahy, tenor; Mr. David Edelstein, monologue; Andre Addison's String Orchestra.

SATURDAY, MAY 8.

7.30—Latest News Items and Sporting Results; Mr. J. O'Sullivan, baritone; Lecture: Hints on Motors, Mr. W. H. Burgess; Mr. Frank Redman, Monologues; Lecture: Labor Legislation, Mr. J. C. Eldridge; Mr. Robertson, baritone; Nette O'Sullivan, dramatic scenes; Mr. W. Masters, banjo solos.

MONDAY, MAY 10.

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

7.30—Latest News Items; Miss Amy Ruwald, entertainer; Miss D. Johnstone, soprano; Mr. W. Strain, tenor; Lecture: Local Topics, Industrial and Political, Mr. J. S. Garden; Mr. Beard, Technical Designer of 2KY, Wire-

less lecture; Mr. J. Gray, baritone; Miss Nellie Graves, soprano.

TUESDAY, MAY 11.

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

7.30—Latest News Items; Miss Dorrington, soprano; Lecture: Organic Evolution, Mr. Geo. F. Munnell; Miss Zara Nilson, soprano; Lecture: Ah of Fighting Cancer Scaries, Principal forms of Cancer and their Danger Signals, Mr. B. V. Markham; Flute Solos, Mr. Les Sproule; Mr. McDougal, Hawaiian steel guitar; Mr. David Lloyd, pianist; Mr. A. Jamieson, tenor.

WEDNESDAY, MAY 12.

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

7.30—Latest News Items; Miss Eileen Charters, soprano; Miss Dean, pianist; Lecture: International Topics, Industrial and Political, Mr. J. S. Garden; Mr. R. Webster, baritone, Mr. Percy Brown, monologues; Mr. Sullivan, tenor; Miss Thompson, soprano; Lecture: Health Topics; Miss Lillie Wallace, whistler, Lecture, subject to be announced, Rt.-Rev. R. A. Arundale.

THURSDAY, MAY 13.

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

7.30—Latest News Items; Miss Tibble Smith, monologues; Mr. Eric Goldrick, Hawaiian steel guitar; Lecture: Readings from Working Class Action, Miss E. L. Patrick; Lecture, Mr. J. C. Eldridge, Social Science; Miss Butterworth, soprano; Mr. W. Thom, Tenor.

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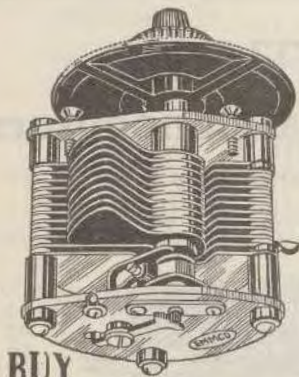
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FRIDAY, MAY 7.

- 12 noon—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show at the Exhibition Buildings.
- 12.20—British Official Wireless News from Rugby; Reuters and the Australian Press Association cables; "Argus" and "Herald" News Services; Shipping Intelligence.
- 12.45—Stock Exchange Information.
- 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Report.
- 1—Time Signal.
- 1.1—Studio Orchestra.
- 1.12—Jessie Smith, contralto.
- 1.13—Walter Smith, cornet solo.
- 1.13—Station Trio.
- 1.18—Jessie Smith, contralto.
- 1.40—Studio Orchestra, selection.
- 2—Close down.
- 3—Transmission from Messrs. Allan & Co.'s stand at the International Motor Show, Exhibition Buildings.
- 3.20—Edouard and Raymond Lambert Sonata, Piano and Violin.
- 3.25—Raymond Lambert, pianoforte solo.
- 3.29—Oliver Peacock, baritone.
- 3.36—Studio Orchestra.
- 3.46—Edouard Lambert, violin solo.
- 3.53—Oliver Peacock, baritone.
- 4—Raymond Lambert, pianoforte solo.
- 4.8—Studio Orchestra, suite.
- 4.19—Au Far, of Buckley & Nunn Ltd., will give a Fashion Talk.
- 4.33—Edouard Lambert, violin solo.
- 4.37—Studio Orchestra, selection.
- 4.45—"Herald" News Service; Stock Exchange Information.
- 5—Close down.
- 6—Children's Hour: Stories by Billy Bunny; Nursery Rhymes; The Turtle's Wish; Black Beauty.
- 6.15—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
- 6.53—Weather Synopsis; Shipping Movements.
- 6.57—Stock Exchange Information.
- 7.2—Fish Market Reports by J. R. Borret Ltd.
- 7.4—Market Reports by the Victorian Producers Co-Operative Co. Ltd.; Haymarket Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
- 7.20—Under the auspices of the Develop Australia League, Mr. A. S. Madden: Working for Australia.
- 7.40—Mr. Brian Ahern, now playing in "The Admirable Crichton," will talk to you from his dressing-room, by permission of J. C. Williamson Ltd.
- 8—Tasma Tierman, cello solo.
- 8.10—Roy Warren, bass.
- 8.20—Tasma Tierman, Cello solo.
- 8.30—Leo O'Donnell's and the Embassy Orchestra. During the intervals between the dances, items will be rendered by Billy Clare, Humorist; Roy Warren, bass.
- 8.40—Under the auspices of the Department of the State Superintendent, Modern Agricultural Methods.
- 9.10—Mr. L. Drumming, How to grow the Daphne.
- 10—"Herald" News Service; British Official Wireless News from Rugby; Meteorological Information; Notes on to-day's activities on the Melbourne Stock Exchange.
- 11—God Save the King.

SATURDAY, MAY 8.

- 11—Harold Rodgers, Organ Recital.
- 11.10—Edouard and Raymond Lambert, Sonata—Finals.
- 11.15—Raymond Lambert, pianoforte solo.
- 11.21—Harold Rodgers, organ recital.
- 11.29—Edouard Lambert, violin solo.
- 11.34—Raymond Lambert, pianoforte solo.
- 11.39—Harold Rodgers, organ recital.
- 11.50—Edouard Lambert, violin solo.
- 12 noon—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show at the Exhibition Buildings.
- 12.12—British Official Wireless News from Rugby; Reuters and the Australian Press Association cables; "Argus" and "Herald" News Services; Shipping Intelligence.
- 12.45—Stock Exchange Information.
- 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Report.
- 1—Time Signal.
- 1.1—Studio Orchestra, selection.
- 1.13—Oliver Peacock, baritone.
- 1.20—Dorothy Roxburgh, violin solo.
- 1.25—Studio Orchestra, suite.
- 1.35—Oliver Peacock, baritone.
- 1.45—Studio Orchestra, selection.
- 2—Close down.
- 3—Result of Two-year-old Handicap, Epsom Races.
- 3.3—Studio Orchestra, selection.
- 3.15—Edouard and Raymond Lambert, piano and Violin.
- 3.30—Result of Epsom Plate and Purse, Epsom Races.
- 3.35—Raymond Lambert, piano solo.
- 3.48—Edouard Lambert, violin solo.
- 3.50—Result of Brush Steeplechase, Epsom Races.
- 4—Studio Orchestra, selection.
- 4.10—Raymond Lambert, piano solo.
- 4.15—Tasma Tierman, cello solo.
- 4.20—Edouard Lambert, violin solo. Result of Epsom Handicap.
- 4.27—Studio Orchestra, fox trots.
- 4.45—Sporting Results; "Herald" and "Argus" News Services.
- 5—Result of Maiden Handicap; Close down.
- 5.45—All Sporting Results, local, country, and Interstate.
- 6—Children's Hour: Stories by Mary Gumleaf; Poems, Johnathan Jo; The Three Foxes; Story for the littliest ones, The Birthday Umbrella; For the bigger ones, Games—their origin and relation to health.
- 6.15—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
- 6.53—Weather Synopsis; Shipping Movements.
- 6.57—Stock Exchange Information.
- 7.2—Fish Market Reports by J. R. Borret Ltd.
- 7.4—Market Reports by the Victorian Producers Co-Operative Co. Ltd. Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
- 7.20—Mr. F. Chapman, A Picture of the Yal-lourn Coal Age.
- 7.40—Dr. J. A. Leach, Legs and feet of Birds.
- 8—Composers of the Tudor Period—A short lecture by Mr. Fritz Hart. Musical examples will include songs by John Attey, Philip Rossiter, Thomas Campion, Thomas Morley, John Dowland and Anthony Young. Songs by Purcell, T. A. Arne and Carey (of a later period) will also be sung. In addition the programme will include a Sonata for violin and piano by Purcell.
- 9.15—Melbourne Boomerang Mouth Organ Band, selections.
- 9.25—Children's Hospital Appeal.
- 9.30—Mouth Organ Selection, played by Alf Fletcher, Conductor.
- 9.36—Oliver Peacock, Baritone.
- 9.44—Melbourne Boomerang Mouth Organ Band, selection.
- 9.48—Joan Lascelles, Soprano, selected.
- 9.58—Mouth Organ Selection, played by Alf Fletcher, conductor.
- 10.3—"Herald" News Service; British Official Wireless news from Rugby; Meteorological

- Information; Notes on to-day's activities on the Melbourne Stock Exchange.
- 10.16—Oliver Peacock, Baritone.
- 10.23—Mouth Organ Selections, played by M. Magor, accompanied by Band.
- 10.30—Joan Lascelles, soprano.
- 10.40—Mouth Organ selection played by M. H. Collett accompanied by band.
- 10.45—Melbourne Boomerang Mouth Organ Band Selections.
- 11—God Save the King.

SUNDAY, MAY 9.

- Morning Session, 11 a.m. to 12.15 p.m.
- 1.1—Service from Australian Church, Russell Street, Preacher: Dr. Charles Strong.
- 12.15—Close down.
- Afternoon Session, 3 to 4.30.
- 3—Pleasant Sunday Afternoon Service, Central Mission, Wesley Church. Chairman: Rev. J. H. Cain.
- 4.30—Close down.
- Evening Session, 6 to 6.45.
- 6—Children's Hour, Stories by Billy Bunny; The Lost Garden—The Loveliest Life—A Good Soldier—A Purple Cross Talk.
- Night Session, 7 to 10.
- 7—Service from St. Paul's Cathedral.
- 8.40—Malvern Municipal Tramway Band.
- 8.50—Leo Darnton, baritone.
- 9—Malvern Municipal Tramway Band, overture.
- 9.7—Trumpbone trio, Bandsmen Neilson, Ring, and Willis.
- 9.14—Leo Darnton, baritone.
- 9.24—Malvern Municipal Tramway Band, selection.
- 9.34—Malvern Municipal Tramway Band.
- 9.40—"Herald" and "Argus" News Service.
- 9.45—Malvern Municipal Tramway Band.
- 10—God Save The King.

MONDAY, MAY 10.

Midday Session 12 noon to 2 p.m.

- 12 Noon—Transmission from Messrs. Allan & Co's Stand at the International Motor Show, Exhibition Buildings.
- 12.20—British Official Wireless News from Rugby. "Argus" and "Herald" News Services. Shipping Intelligence. Reuters & Australian Press Association Cables.
- 12.45—Stock Exchange Information.
- 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecasts; River Reports.
- 1—Time Signal.
- 1.1—The Studio Orchestra, suite.
- 1.8—Oliver Peacock, baritone.
- 1.15—The Studio Orchestra.
- 1.18—Oliver Peacock; baritone.
- 1.25—Community Singing by the University Students, transmitted from the Club House.
- 2—Close down.
- The results of the Pony Races at Richmond will be given as they come to hand.

Afternoon Session, 3 to 5.

- 3—Transmission from Messrs. Allan & Co's Stand at the International Motor Show at the Exhibition Buildings.
- 3.20—Studio Orchestra, overture.
- 3.26—Miss Milli Meyer, The Pilgrimage of Genus.
- 3.41—Phyllis Best, elocutioniste.
- 3.46—The Studio Orchestra.
- 3.50—Miss Flora Pell, Supervisor of Domestic Arts, Education Department; Domestic Economy.
- 4.5—Laurie Burnett, humorist.
- 4.15—The Studio Orchestra.
- 4.20—Phyllis Best, elocutioniste.
- 4.25—The Station Trio.
- 4.35—Laurie Burnett, humorist.
- 4.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables; Stock Exchange Information.
- 5—Time Signal; Close down.

The results of the Pony Races at Richmond will be given as they come to hand.

Evening Session, 6 to 7.15

- 6—Children's Hour. Stories by "Billy Bunney"; Nursery Rhymes; How the Wizard became a chameleon; Black Beauty.
 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
 6.53—Weather Synopsis; Shipping Movements.
 6.57—Stock Exchange Information.
 7.2—Fish Market Report by J. R. Barrett Ltd.
 7.4—Fruit Market Reports by the State Fruit Advisory Board.
 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd.; Haymarket Sales; Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session, 7.15 to 11.

- 7.20—Under the auspices of the New Settlers' League, Sir James Barrett: Bush Nursing and other country amenities.
 7.40—Under the auspices of the Department of Agriculture, Mr. J. Blake, Senior Inspector of Agriculture: Wheat Cultivation—Muzzing the Crop.
 8—Bellairat North Golf Club Glee Party—Ye Old Time Minstrels, transmitted from A.N.A. Ball, Bellairat.
 9.30—From the Studio. The Illimata Concert Party, and Studio Orchestra.
 10 (Approximately)—"Argus" and "Herald" news services; British Official Wireless News; Meteorological Information; Notes on to-day's activities on Melbourne Stock Exchange.

TUESDAY, MAY 11.

Midday Session 12 noon to 2 p.m.

- 12 Noon—Transmission from Messrs. Allan & Co.'s Stand at the International Motor Show, Exhibition Buildings.
 12.20—British Official Wireless News from Rugby, "Argus" and "Herald" News Services, Shipping Intelligence, Reuters & Australian Press Association Cables.
 12.45—Stock Exchange Information.
 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports; Reuters and the Australian Press Association Cables; Stock Exchange Information.
 1—Time Signal.
 1.1—The Studio Orchestra, selection.
 1.12—Water snail, cornet solo.
 1.17—Oliver Peacock, baritone.
 1.24—Tasma Tiernan, cello solo.
 1.29—Studio Orchestra, selection.
 1.41—Oliver Peacock, baritone.
 1.48—The Studio Orchestra, one stop, fox trot.
 2—Close down.

Afternoon Session, 3 to 5.

- 3—Transmission from Messrs. Allan's Stand at the International Motor show at the Exhibition Buildings.
 3.20—The Studio Trio.
 3.35—Phyllis Best, clectionist.
 3.42—Marie Lethbridge, soprano.
 3.52—The Studio Orchestra.
 3.59—Au Fait, of Messrs. Buckley and Nunn Ltd., Fashion talk.
 4.14—Bessie Gausson, violin solo.
 4.19—Phyllis Best, clectionist.
 4.24—Matron Moreland, Infant Welfare.
 4.39—Marie Lethbridge, Soprano.
 4.45—"Herald" and "Argus" news services.
 5—Stock Exchange Information.
 5—Close down.
 Evening Session, 6 to 7.15
 6—Children's Hour. Stories by Mary Gumleaf, Poems — Poppy and I; Somebody Singing; Story for the littlest ones: How Teddy and

his brother helped the Hospital; For the bigger ones: Boy Scouts—Their Origin, Inspiration and Service.

- 6.45—"Argus" and "Herald" News Services; Reuters and the Australian Press Association Cables.
 6.53—Weather Synopsis; Shipping Movements.
 6.58—Stock Exchange Information.
 7.2—Fish Market Reports by J. R. Barrett Ltd.
 7.4—Fruit Market Reports by the State Advisory Board.
 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd.; Haymarket Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session, 7.15 to 11.

- 7.20—Mr. R. H. Wilmot—Rare Earths.
 7.40—Under the auspices of the University Extension Board — Miss E. Derham, Ancient Ballads.
 8—Erosa G. Oran and the Tivoli Orchestra—transmission from the Tivoli Theatre, by permission of Magnova Ltd.
 9.10—Mr. G. S. Ibbot, Registrar of Copyrights, will speak on "Performing rights in musical works and the law relating thereto."
 9.30—Edouard and Raymond Lambert, violin and piano.
 9.46—Raymond Lambert, pianoforte solo.
 9.45—Phyllis Best, clectionist.
 9.50—Edouard Lambert, violin solo.
 9.58—Adele Cranz, soprano.
 10.5—"Herald" News Service; British Official Wireless News from Rugby. Notes on to-day's activities on the Melbourne Stock Exchange; Meteorological Information.
 10.20—Raymond Lambert, pianoforte solo.
 10.27—Phyllis Best, clectionist.
 10.34—Edouard Lambert, violin solo.
 10.37—Adele Cranz, soprano.
 10.44—Harold Rodgers, organ recital.
 11—God Save The King.

WEDNESDAY, MAY 12.

Midday Session.

- 12—Transmission from Messrs. Allan & Co.'s stand at the International Motor Show, Exhibition Buildings.
 12.20—British official wireless news from Rugby, "Argus", and "Herald" news services, Shipping Intelligence, Reuters' and the Australian Press Association cables.
 12.45—Stock Exchange information.
 12.50—Meteorological information. Weather forecasts for Victoria, Tasmania, S.A. and N.S.W. Ocean forecast. River reports.
 1—The Studio Orchestra.
 1.10—Oliver Peacock, baritone.
 1.17—Bessie Gausson, violin solo.
 1.22—Station Trio.
 1.25—Walter Smith, cornet solo.
 1.32—Oliver Peacock, baritone.
 1.39—The Studio Orchestra.
 1.47—Tasma Tiernan, cello solo.
 1.52—The Studio Orchestra.
 2—Close down.
 2.15—Result of the Breakwater Hurdle.

Afternoon Session.

- 3—Result of City Handicap.
 3.1—Transmission from Messrs. Allan & Co.'s stand at the International Motor Show, Exhibition Building.
 3.20—The Studio Orchestra.
 3.25—Result of Flying Handicap.
 3.26—Professor Pietro Sarcoli, violin recital.
 3.41—Miss S. V. Parker.
 3.46—Result of Bellarine Welter.
 3.57—The Studio Orchestra.
 4.2—All racing results to hand.
 4.7—Professor Pietro Sarcoli, violin recital.
 4.22—Sister Peck, of the Victorian Baby Health Association.

- 4.37—Result of Jumpers' Flat.
 4.38—The Studio Orchestra.
 4.45—"Herald" and "Argus" news services.
 Stock Exchange Information.
 5—Close down.

Evening Session 6 to 7.15

- 6—Children's Hour. Stories by Little Miss Kookaburra.
 6.45—Argus and Herald news services. Reuters and the Australian Press Association Cables.
 6.53—Weather Synopsis. Shipping movements.
 6.57—Stock exchange information.
 7.2—Fish market reports by J. R. Barrett Ltd.
 7.6—Market reports by the Victorian Producers Co-operative Co. Ltd. Newmarket sales, Cattle, Pigs, Carcase Meat, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

Night Session 7.15 to 11

- 7.20—Mr. A. E. McEicken, Talks on Great Writers—Thomas Hardy.
 7.40—Under the auspices of the Department of Agriculture, Mr. R. D. Grange, Butter Marketing and the Market Reports.
 8—St. Mark's Orchestra.
 8.10—Oliver Peacock, baritone.
 8.17—A. Borthwick, xylophone solo.
 8.24—St. Mark's Orchestra.
 8.33—Oliver Peacock, baritone.
 8.40—St. Mark's Orchestra.
 8.48—A. Borthwick, xylophone solo.
 8.58—St. Mark's Orchestra.
 9.3—Capt. Peters, Books Wise & Otherwise.
 9.18—St. Mark's Orchestra.
 9.25—"Argus" and "Herald" news services, British official wireless news from Rugby. Meteorological information. Notes on to-day's activities on the Melbourne Stock Exchange.
 9.30—Bert Howell and his Concert Orchestra, transmitted from the Victory Theatre, St. Kilda.
 11—God Save The King.

THURSDAY, MAY 13.

Midday Session.

- 12 Noon Transmission from Messrs. Allan & Co.'s stand at the International Motor Show, Exhibition Buildings.
 12.20—Community Singing under the auspices of Community Singers and Concert Goss. Association, transmitted from the Assembly Hall, Collins Street.
 1.15—Stock Exchange Information; Meteorological information; Weather Forecast for Victoria, Tasmania, South Australia, and New South Wales.
 2—Close down.

Afternoon Session.

- 3—Transmission from Messrs. Allan & Co.'s stand at the International Motor Show, at the Exhibition Buildings.
 3.20—Edouard and Raymond Lambert, violin and piano.
 3.27—"Mary Gumleaf" and the Mothers, a talk about the children's letters.
 3.47—Raymond Lambert, piano solo.
 3.55—Edouard Lambert, violin solo.
 4—Phyllis Best, clectionist.
 4.5—Raymond Lambert, piano solo.
 4.10—Mr. T. S. Mould, The Domestic Fireplace, Part 2.
 4.25—Edouard Lambert, violin solo.
 4.30—Phyllis Best, clectionist.
 4.35—The Studio Orchestra.
 4.45—"Herald" and "Argus" news services. Stock Exchange information.
 5—Evensong from St. Paul's Cathedral.
 5.40—Close down.
 6—Children's Hour. Stories by "Mary Gumleaf."

6.15—Bishop Hay, of Tasmania, will speak to the children.
 6.30—"Mary Gumleaf," travel talk.
 6.45—Argus and Herald news services. Reuters and the Australian Press Association Cables.
 6.55—Weather synopsis. Shipping movements.
 6.57—Stock exchange information.
 7.2—Fish market reports by J. R. Borrett, Ltd.
 7.5—Market reports by the Victorian Producers' Co-operative Co. Ltd.

Night Session, 7.15 to 11.

7.20—Under the auspices of the St. John's Ambulance Association, Mr. J. H. Lord
 8—Oliver Peacock, baritone.
 8.7—Agnes Fortune, pianoforte solo.
 8.12—Miss Frances Barkman, Moliere Comedies, Part 1.
 8.30—Leo O'Donnell's Embassy Orchestra.
 (During intervals between dances Oliver Peacock, baritone, and J. A. Lowe, comedian, will render items.)
 9 (approx.)—Mr. Hugh Egan.
 10 (approx.)—"Argus" and "Herald" news services. British official wireless news from Rugby. Meteorological information. Notes on to-day's activities on the Melbourne Stock Exchange.
 11—God Save the King.

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FRIDAY, MAY 7.
 Afternoon Session.

9—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
 9.15—Music from the Studio.
 9.30—G.P.O. Clock and Chimes; A talk on English Poetry by Mr. J. M. Prentice.
 9.45—Music from the Studio.
 9.55—G.P.O. Clock and Chimes; Music from the Studio.
 10—G.P.O. Clock and Chimes; Serial Story entitled Mr. Ramosi.
 10.45—Music from the Studio.
 11—G.P.O. Clock and Chimes; The Sun News Service.
 11.15—G.P.O. Clock and Chimes; Close down.
 Early Evening Session.
 6—G.P.O. Clock and Chimes; Sporting Resume from the Sun Newspapers; The pupils of Miss Monica Scully will entertain the Kiddies.
 6.45—Broadcasters Dinner Orchestra.
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.
 7.50—Close down.

Evening Session.

8—Special Dance Night with Cec. Morrison and his Gloomchasers providing jazz music. Mr. Cec. Morrison will also play any dance number requested by telephone and the request will be transmitted simultaneously. The Senior Sporting Expert of the "Sun" Newspapers will provide information in regard to racing form and tips. Travelogue talk by Mr. J. M. Prentice, Climpes of Egypt.

SATURDAY, MAY 8.
 Afternoon Session.

2—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from Sun Office.
 9.15—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 Jack and the Kiddies.
 7—A Talk to the Kiddies by "Brin-ga."
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.

Evening Session.

Sydenham Theatre Orchestra will be broadcast, and from the Studio Mr. Lea, Herford, baritone; Misses Marjorie Skill, soprano and Maudie Barnett, contralto in solo and duet numbers. Brin-ga will speak on the subject of the Australian Aborigines, and Mr. Stanley Crittenden will deliver a delightful humorous talk on matters photographic. The Dugwong Cabaret under the direction of Jimmy Elkin broadcast until midnight.

SUNDAY, MAY 9.

11—St. Patrick's Church, Churchhill, special Choral Mass and soloists.
 3.30—Concert from the Studio, including Broadcasters Trio and Solo Numbers.
 6.30—Religious Service for the Kiddies conducted by Uncle George.
 7.20—White Lotus Memorial Service of the Independent Theosophical Society, broadcast from King's Hall. The service includes solo numbers, readings from the world's Scriptures, Memorial Address in regard to the work and character of Madame H. P. Blavatsky and the Superb Trio of Arensky.
 9—Concert from the Studio featuring Mr. Raymond Beatty, the brilliant Basso Cantante.

MONDAY, MAY 10.

Afternoon Session.

9—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.
 9.15—David Jones' Tea Room Trio.
 9.30—G.P.O. Clock and Chimes; A talk on A Course in English Literature, by Mr. J. M. Prentice.
 9.45—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. Ramosi.
 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 Uncle Jack with 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.

Ambassadors Instrumental Salon Quartette; Newtown Band; Thelma Houston, contralto; Al. Hammett and the Ambassadors' Dance Orchestra broadcast until midnight. Mr. D. Raymond will speak on Origin and Romance of Coinage and Mr. Brown on Electrical Mechanism of a Motor Car.

TUESDAY, MAY 11.

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. Ramosi.

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.

Orchestral Concert. Norman Janson, baritone; Helena Smart, soprano; Ada Althouse; Miss Helen Jean Beagling will speak on Los Angeles to Tijuana (Mexico).

WEDNESDAY, MAY 12.

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. Ramosi.
 4.45—Broadcasters' Trio.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

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

Evening Session.

City of Sydney Band. Robert Harper, tenor; Professor Bobot's Embassy Jazz Orchestra under the direction of Mr. S. Bonneti, broadcast from Embassy Palais. Mr. J. M. Prentice will speak on Foreign Affairs and reply to any telephone questions on the subject.

THURSDAY, MAY 13.

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.
 4.55—Late Market Reports from The Sun.
 5—G.P.O. Clock and Chimes; Sun News Service.
 5.15—G.P.O. Clock and Chimes; Close down.

Early Evening Session.

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

Evening Session.

Claire Cooley, soprano; Waikiki Troubadours; Leah Freedman in comedy sketches. Al. Hammett and the Ambassadors' Dance Orchestra broadcast until midnight. Mr. Fraser Anderson will speak on Astrological Aids to Character.

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General view obtained through courtesy of the Radio Corporation of America. Captain Richard Ranger of the R.C.A., inventor of the apparatus, is seen placing film upon drum of transmitter.

U. & U. Photos



President Coolidge



H.R.H. The Prince of Wales

The Principles and Causes underlying Radio Communication were understood by Clerk Maxwell in England 60 years ago. Professor Heinrich Hertz, of Germany, 40 years later demonstrated these principles. Broadcasting has been known since 1907. Now this week we read of remarkable tests carried out by Captain Ranger, when he actually transmitted the photograph of a cheque for 1000 dollars from London to New York. This cheque was photographed with such accuracy that the cheque was actually cashed within an hour of its receipt.

This is not the first successful experiment of this kind, as some months ago Captain Ranger, who by the way is on the experimental staff of the Radio Corporation of America, actually transmitted by radio the photographs, as shown here, of President Coolidge and H.R.H. the Prince of Wales from London to New York.

These photographs were taken in the usual way, the negative of the film being placed upon the drum on the transmitter, through which a strong light is projected. As the drum revolves, a wireless telegraph circuit is operated. This reproduces at the receiving station by means of somewhat similar apparatus an impression of the photo transmitted.

(Photographs published by courtesy of the Burgess Battery Co. of America.)

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Both musicians are natives of Liege, Edouard studying in that city with the famous Professors

Ysaenge, Thomson and Musin, and after completing a successful course he gave recitals in the great opera houses of the Continent. In Paris he frequently appeared in the world-renowned concerts given under the direction of Monsieur Lamauzeux.

The son, Raymond, has no doubt inherited the musical talent of his father, and at an early age gave promise of attaining the greatest heights in the musical world. He studied at the Brussels Conservatorium under the greatest of the world's professors of pianoforte. After obtaining his diploma with honours he gave a recital of his own at the age of 16, later accompanying his father at many recitals, and it is this capacity that he will delight 3LO's listeners with the works of the great masters.

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