

MITCHELL LIB
9 2 111 20

WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 10

Registered at the G.P.O. as being
transmitted by post as a Newspaper.

NUMBER 9



Friday, June 24, 1927.

Price Threepence

18 Stations on Loud Speaker with Frame Aerial——!

The New UDISCO SUPER-NEUTRODYNE

Embodying the new fundamental principle, developed independently at Elstree, England, and Sydney, Australia, which has excited widespread interest and enthusiasm throughout the wireless world

Australian Patent 20,643/24

U.S.A. Patent 1610915

British and Canadian Patents Pending

Professor NICHOLSON writes:

Chesentrys, Mount Street, Hunter's Hill, 23rd May, 1927.

The Manager, United Distributors, Ltd., 73 Clarence Street, SYDNEY.

Dear Sir,—The Udisco 5-valve Super Neutrodyne set which you recently installed in the place of my son's obsolete 4-valve receiver surpasses my expectations. I am surprised not merely by its selectivity, but also, and perhaps still more, by the excellent tone and volume of its reception from distant stations. When the conditions are favorable, 4LO, 4QG, 5CL, and 1YA are received with almost the same purity of tone and fullness of volume as the Sydney stations.

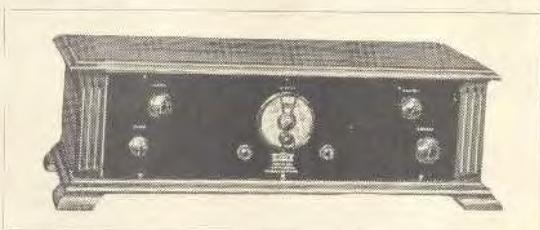
My son wishes me to give you the following particulars. We have received items broadcast by 26 stations.

N.S.W.: 3BL, 2FC, 2GB, 3RY, 2BE, 2IE, 2UW, 2BI, 2PS, 2GQ. VIC.: 3LO, 3AR, 3DB, 3SW, 3BY, 3BR. QLAND: 4QI, 3A, 5CL, 3DN, 3EA. TAS.: 7ZL, 7UX. N.Z.: 1YA, 3YA, 4YA.

All of these, except the items from 7ZL and 7UX, were received on the loud speaker. With merely a frame aerial, we have heard on the loud speaker eighteen stations. No less than eleven have been heard, on the loud speaker, without any aerial at all. Yours faithfully,

(Sgd.) G. G. NICHOLSON.

DAYLIGHT
RECEPTION



INTERSTATE
STATIONS

Model LS 5 Valves

NEW PRICES	4 Valve Set with Philips A609 Valves	£20
	5 " " " "	£30
	6 " " " "	£40
	8 " " " "	£55

Cancelling all Previous Prices

Complete Sets of Accessories, including Loud Speaker, from £12 upwards extra

FULL PARTICULARS AND DEMONSTRATIONS AT

United Distributors Limited

72 Clarence Street, and 28 Martin Place, SYDNEY

343 Queen St.,
BRISBANE

27 Chester St.,
ADELAIDE

26 Queen St.,
PERTH

Cr. Jervois Quay & Harris St.,
WELLINGTON, N.Z.

66 Charles St.,
LAUNCESTON, TAS.

664 Bourke Street, MELBOURNE

109 Collins Street, HOBART

Don't Trust to Luck!

Always Specify

DUBILIER CONDENSERS

The name "Dubilier" represents twenty years of practical research and faithful production of reliable apparatus. No Dubilier product is placed on the market until it has undergone long tests under working conditions.



DUBILIER MANSBRIDGE CONDENSERS.

A special Condenser of the Mansbridge Pattern, designed for "br-pass" work ranging up to 2 m.f.d. capacity and tested to 200 v. D.C. Attractively designed and very compact. Fitted with terminals and thinned legs for making connections. The base has two projecting pierced lugs for affixing to sub-panel or base-board. Carries the usual Dubilier guarantee.

Mansbridge 2 m.f.d. . . . Price 8/-
Mansbridge 1 m.f.d. . . . Price 6/-
Mansbridge 1/2 m.f.d. . . . Price 5/3
Mansbridge 1/4 m.f.d. . . . Price 4/9



DUBILIER ANODE RESISTANCES.

Requirement for Anode Resistance is ability to carry the normal anode current of the valves for prolonged periods without overheating and without change in resistance value.

Dubilier Anode Resistances are all tested off a D.C. voltage of 200 volts. Supplied, complete with holder, in all resistances from 20,000 to 100,000 ohms.

Price 9/-



DUBILIER MICA CONDENSERS (Type 600)

To keep the efficiency high the electrical losses in every part of a wireless set must be reduced to the absolute minimum.

Losses in the condensers are extremely detrimental to the proper functioning of the apparatus.

The Type 600 Dubilier Condenser illustrated is constructed with Mica and is enclosed in a moulded insulating case which carries the terminal connections, so that the highest insulation is secured.

This condenser will withstand the application of a testing voltage of 1,000 volts.

.001 m.f.d. capacity Price 4/3

.00025 m.f.d. capacity Price 4/-

Supplied in all capacities.

Obtainable from all Radio Dealers

or from

Amalgamated Wireless
(Australasia) Ltd.

47 YORK STREET, SYDNEY

169 QUEEN ST.,
MELBOURNE

KING & KING CHBRS.
QUEEN ST., BRISBANE

BOWER'S BLDG, CHARLES ST., ADELAIDE



Build a Genuine 6-Valve de Luxe Neutrodyne! —from Gilfillan Parts

The Neutrodyne circuit was the first devised solely for home radio; for the faithful reproduction as well as selective and sensitive selection of programmes. This was four years ago—now YOU can build a Neutrodyne—a Genuine Gilfillan Neutrodyne—from Gilfillan parts! These Gilfillan kits, obtainable from Harringtons, will make a set that will give you finer reception—permanently!



Gilfillan Shielded Neutrodyne Kit— NA-6

The design of this kit is in accord with the latest engineering practice, and the purchaser may feel assured of obtaining excellent results. A plan of assembly is furnished together with full detailed drawings and specifications, wiring diagram and template. The parts supplied in this kit provide for three stages of radio frequency, detector and two audio frequency with one tuning control. The parts supplied in this kit consist of the following:—

- 1-Gilfillan four condenser gang assembly. (Indicator drum, worm gears and volume rheostat and "on" and "off" switch included).
- 4-Aluminium mounting brackets.
- 4-Low loss inductances, mounted in copper shielding cans. 1-Antenna and ground post assembly.
- 2-Bakelite base sockets.
- 1-Bakelite base cushion type socket.
- 1-2 megohm grid leak.
- 1-75,000 ohm filter resistor.
- 1-477 filament equalizing resistor.
- 2-Grid leak clips.
- 1-Bakelite base assembly for filament and filter resistors. 1-Battery cable with markers.
- 1-Battery cable clamp. 2-Bakelite control knobs.
- 1-500 ohm grid condenser.
- 1-102 mfd. by-pass condenser.
- 1-1 mfd. by-pass condenser.
- 2-Audio transformers, 1: 2 for 1st stage, 1: 3 for 2nd stage. 2-Neutralizing condensers.
- 2-Output jacks. 1 single circuit, and 1 double circuit. Assortment of screws, nuts and bolts.

Cash Price

£34

£7 deposit

and easy weekly
payments.



Gilfillan Tuned Radio-Frequency Kit RA-6

This type of receiver has become very popular, due to the high degree of selectivity and sensitivity possible. The design furnished embodies the latest practice in the radio art and assures satisfactory results to the builder.

The parts supplied in this kit provide for 3 stages of radio frequency, detector and two audio frequency with two tuning controls. A plan of assembly is furnished, together with full detailed drawings and specifications, wiring diagram and template.

The parts supplied are as follows:—

- 1-Antenna and ground post assembly.
- 2-Bakelite base sockets.
- 1-Bakelite base cushion type socket.
- 1-2 megohm grid leak.
- 1-75,000 ohm filter resistor.
- 1-477 filament equalizing resistor.
- 2-Grid leak clips.
- 1-Bakelite base assembly for filament and filter circuit resistors.
- 1-Variable high resistance for sensitivity control.
- 1-Combination rheostat and "on" and "off" switch. 1-Battery cable with markers.
- 1-Battery cable clamp.
- 2-100 ohm grid circuit resistors.
- 2-Bakelite tuning control knobs (large).
- 2-Bakelite volume and sensitivity control knobs (small).
- 1-500 ohm grid condenser.
- 1-502 by-pass condenser.
- 2-Audio transformers, 1: 2 for first stage, 1: 3 for second stage.
- 2-1 mfd. by-pass condensers.
- 2-Output jacks, 1-single circuit, and 1-double circuit. Assortment of screws, nuts and bolts.

Cash Price... .. £26

£5 deposit
and easy weekly payments

Harringtons LTD

Goodwill Built on
Public Confidence Since 1889.

386 George St., Sydney.

Also at Newcastle, Katoomba, Melbourne, Brisbane, Adelaide,
Wellington (N.Z.), Auckland (N.Z.).

WIRELESS WEEKLY

VOL. 12, No. 2.

FRIDAY, 24th JUNE, 1927.

The State Wireless Scream

LOOKED at from any point of view whatever, Mr. Lang's wireless scheme has nothing to recommend it—the sorer it is examined, the less attractive it becomes.

It is, of course, the privilege of politicians to wrap every scheme which has been foisted upon the public from time immemorial in a gaudy covering and call it a great public utility.

Just how much the public is being studied in this ridiculous State Wireless scheme, is apparent from the fact that it was originally proposed to erect a 15 kilowatt station in Darlinghurst. Everybody knows that a station with an enormous power such as this, dropped into the middle of a huge population area in the middle of the city, would simply blanket out everything else, and deny to thousands of listeners in the pleasure of tuning in distant stations whilst this super power station is on the air—everybody, that is, except, apparently, Mr. Lang, and those visionaries who are with him in this attempt to squander thousands of pounds of the taxpayers' money.

We have already two excellent "A" class stations in this state, and a number of other stations which, even if they do not fully succeed, at least try hard to give the public a broadcasting service, that is, a service of entertainment and education. Unless any broadcast station has this ideal as its objective, it has no justification whatever for its existence.

Despite all this talk of a super power station and of relay stations, despite the twaddle that is being preached to attempt to justify this criminal squandering of public money it is apparent to anyone with a mind to think, that the idea behind the so-called State wireless scheme is simply to provide a medium for the wholesale dissemination of political propaganda on behalf of Mr. Lang's Government.

At this tardy hour, the Premier, who has never before shown any inclination to advance the interests of broadcasting, and whose name has never figured in any proposal designed to give the public better broadcasting, suddenly forms the opinion that what the New South Wales public wants, is a super power station jammed in the middle of the city, and a number of relay stations scattered throughout the country districts, to broadcast political publicity matter, which no other country in the world, except Russia, would tolerate for five minutes.

If Mr. Lang's party desires to keep in touch with branches throughout the State, the existing telegraphic and postal facilities are more than adequate to provide a means. This idea of using Radio to pass information along to branches savors too much of the system which is in use in Russia, where it is admitted that the first objective of the State Radio Scheme is for the broadcasting of political news matter, rather than the provision of a means of entertainment.

The very essence of a good broadcasting system is that it should be non-party, obviously, where there are thousands of listeners, representing all kinds of political views, it is impossible to broadcast political propaganda without offending seriously the sensibilities of a big percentage of the Radio public. In these enlightened days, such a thing cannot possibly be tolerated.

Broadcasting is first and foremost an entertainment medium, and secondly an educative medium, the blessing of which cannot be lightly ignored. Over three years have been spent in an earnest endeavor by most interested parties to create an atmosphere of harmony in the broadcasting world. Mr. Lang's State Wireless Scheme, if it is allowed to be put into effect, will prove the most serious set-back that the science of wireless in Australia has ever experienced.

Between You And Me And The Microphone

Conducted by Jack Plugge



A TASK FOR 3LO: Broadcasting the film version of a play adapted from a novel by a modern composer.

LOOKED UP TO: The schoolboy who claims to be the real nephew of a real wireless uncle.

THE SHORT-WAVE TRANSMISSIONS from PCJJ, the now famous Dutch experimental station, are being heard with remarkable clarity by amateurs in India.

INCREASED INTEREST in radio in the Dutch republic is reported by representatives of the Department of Commerce. The most popular set over there is said to be a 4 tube hook-up with a stage of radio frequency, a detector and two stages of audio.

AS THE RESULT of the generous response to a recent appeal for funds, the National Institute for the Blind has completed arrangements for the publication almost immediately of "The Braille Radio Times," for the benefit of blind listeners in Great Britain.

THE SHORTHAND COMPETITION: The competition for shorthand writers conducted by 3LO Melbourne was an unqualified success, thousands of stenographers entering from all parts of Australia. The examiners reported that the standard of shorthand revealed was high, especially in the 120 words a minute class. It was noticeable in the 180 words a minute class that the male candidates were superior, the first three prizes being taken by men.

THE EXAMINER listened in on a loud speaker checking the transmission as it came through, enabling him to note any words that sounded indistinct, thus preventing candidates from being penalised for misreporting such words. The prize winners were: 100 words a minute, Miss Rosa Hall, Ivanhoe, Victoria. 120 words: Miss Rose Carpenter, Brunswick, Victoria; 160 words, Mr. R. J. Place, Flemington.

AN ABERDEEN FARMER is distressed because his wireless set picks up conversations from the flat below. Evidently the talkers fail to give anything away.

BY THE USE of headphones and a specially constructed microphone, an experimenter has listened to the sounds made by grubs while devouring apples. It is understood that the noise they made when spitting out the pips came through at loud speaker strength.

"WHY DO YOU insist on becoming a radio announcer?"
"I have decided," answered Mr. Meekton, "that I want a chance to say a few things, however non-committal, under circumstances that won't permit Henrietta to have the last word."

"TANGLED TELEPATHY."

*Telepathy perhaps may be,
Or else may not.
A faculty, and that is what
Men wished to know when
3LO.
Arranged to try if thoughts
could fly,
And how, if so, and, if not,
why.*

*At Wombat Flat, we'd noticed
that,
And, on the night,
Around we sat, out went the
light;
We tried to think,—'Twas
dark as ink—
Jack thought "a son", Dad
thought "What won!"
I thought "a drink," Ma
thought "a son."*

*And now we've seen it should
have been
A simple pen;
We won't be green as that
again,
For we've agreed that it succeeded
in revealing that we
were dealing
With what's named a "far-
fetched feeling."*

—WHISKER.

"I HEARD MR. — speaking quite clearly from New York."

"But I thought Mr. — was dead."
"Well, I don't know. He said it was New York he was speaking from."

THE MEXICAN GOVERNMENT will include 120,000 francs in their next Budget for the erection of a commercial wireless station at Tangiers.

WHAT ABOUT a "running commentary" on a match for a hundred up in the 2FC Studio? The description could be given by the losing player, though in that case it might have to pass through a special filter.

BACK FROM THE SEA. The urgent appeals broadcast by 3LO Melbourne, have achieved some remarkable results and discovered their objective in far-distant corners, but rarely have they had cause to take effect upon the sea. At 10.15 p.m. on June 6, 3LO broadcast an urgent message for M. Faulds, a member of the crew of the dredge, "Matthew Flinders," which was anchored off Rye in the Bay. The crew were listening in at the time and picked up the message. At daybreak the master of the dredge ordered "anchor up," and two hours later Faulds was landed ashore, and was able to proceed to his home within a short time.

CAN YOU WHISTLE? Every person is capable of being their own musical entertainer, for there are few who haven't the ability to whistle. Occasionally our envy is incited by the strong tones of errand boys, as they whistle on their way, but few people dare to exhibit their prowess so boldly in public. 3LO Melbourne, is of opinion that there must be some splendid siffers in the community and will shortly conduct a competition for whistlers. All people are eligible and they may come with an accompanist or without. Further particulars are available at the studio. 3LO is also making preparations for the laughing competition, in which, it is hoped, to discover the merriest laughter in the Commonwealth.

World Broadcasting and an International Language.

By F. T. SIMON

(President of Sydney Esperanto Society and Member of Modern Languages' Association)

WHILE the world was still acclaiming and marvelling at the establishment of another remarkable broadcasting record—that of relaying 2LO (London) through PTJ (Holland) and 2BL (Sydney)—arrangements were well in hand to further extend this service. Paris, Berlin, Vienna, and other important European stations are shortly to be heard throughout Australia and New Zealand.

The underlying motives, it may be deduced, are not solely to provide variety, or of appeasing listeners' constant demands for "something fresh," or even of basking in the limelight of public approval, but, principally, in the manifold interests of Radio Science. Space must be conquered and the ends of the Earth brought together.

Laying away the headphones at dawn, tired but satisfied, after listening from 1.30 to that historic occasion when London was first made available to the general public, I wondered what the next achievement could be. To me, this record seemed the climax—half round the globe was as far as the Magic Spark was needed; the other half being the return journey, so to speak.

Yet we, in this Age of Speed and Miracle, expect records to be turned out like condenser plates at a factory. So often have we been told: "Only the surface of Radio has been scratched," that with confidence almost child-like, we look to our wireless technicians to beat each new performance with something even more startling.

But how many steps to ponder the more obvious questions: What will this World Broadcasting lead to? Will it encounter any obstacles?

Again using the recent 11,000 mile relay as an illustration, has it occurred to you ever how many countries the human voice was carried; and the number of languages spoken en route? This is by no means an irrelevant question, because language plays an important part in broadcasting over such an extensive area.

To many, therefore, this relay must have been unintelligible, only those possessing a knowledge of English being able to understand what transpired, apart from musical items. That the experiment was primarily intended for Australia, South Africa and India, is but a subsidiary matter.

Davis Cup results, news items, meteorological reports, and particular station announcements, may be taken as of general interest, but failure to know our language would place all this knowledge beyond the reach of a foreign listener. Very well then, you will say, let them learn English! Just here lies the catch.

Shortly we are to hear Berlin, Paris, and Vienna, perhaps Rome, Madrid, and Copenhagen. Will these transmissions be made in English? Certainly not! Strange languages will assail our ears and, unless we are acquainted with them, no matter whether the voices talk to us about minor or major happenings, we will be given an opportunity of knowing just how much we don't know!

Herein rests the problem. If World Broadcasting is to be effective something must be done to make the spoken word understood by every listener.

INTERNATIONAL BROADCASTING

Among other features, MARRIN P. RICE, manager of broadcasting for the General Electric Company's stations, KGO, KOA, and WGY, contributes an article on International Broadcasting in the July "Radio." In view of the recent rebroadcasting of WGY and KOA this article is particularly interesting. The new issue contains 80 pages, 80 illustrations, and 25 articles. At all bookstalls and newsagents.

RADIO
for July.

To render everything into half-a-dozen languages is impracticable; consider the time and trouble alone. Besides, have you heard the broken English of that Irish announcer? I have, and was forced to smile.

Yet there is a reasonable way of overcoming this difficulty. By adopting an international auxiliary language. Its necessary qualification must, of course, be simplicity; easily pronounced, easily understood, and easily learned.

Prominent radio men and influential wireless organizations have delved deeply into this matter during the last few years, and it is surprising that their findings are not more widely known in Australia. With few exceptions the verdict, singly and collectively, has been in favour of Esperanto.

Why Esperanto? Because its adoption will not engender rivalries which that of any other language would entail. In other words, its neutrality is its safeguard. In addition, it has those attributes just mentioned. A Radio Language must always have as its chief object the purpose of serving all needs alike, and placing none at a disadvantage.

By using Esperanto side by side with the national tongue it would be a matter of indifference whether the broadcast were received from London, Buenos Ayres, or Tokio.

This method is actually in practice at several radio stations in Europe, and practically all of the more important ones devote certain hours regularly throughout the week to giving instruction in Esperanto.

Curiously enough, those continental stations whose programmes it is proposed to first transmit to us, are amongst the more ardent advocates of Esperanto, and, providing the time chosen is one that coincides with that of an Esperanto lesson, Australian and New Zealand audiences may have a chance of hearing that language explained from either Paris, Berlin, or Vienna.

Readers' opinions on the subject matter of this article would be appreciated in the "Safety Valve" column.

The Safety Valve

Readers are reminded that the opinions expressed by correspondents are not necessarily those of this journal. A fair measure of criticism is allowed but preference is given to letters combining interest with brevity. Anonymous letters are not considered



WHAT ABOUT IT?

Dear Sir.—Now, 2FC and 2BL what about it? All the week, we poor men, we work, and at night we are too tired to sit up late and listen. So what say if you both put out a bit more music on Sundays. No matter where and who you switch to on Sunday, it's Church Services. It is a very good thing to be able to broadcast them, but there are too many broadcasting them—surely one is enough. Let one have Church and the other give us some music. There are some who like the Church Services best, and some who like the other kind best (not meaning Jazz). So it is no good making one lot happy and leaving the other lot out in the cold, when both of them could be made happy by "some church service and some music."

Also it would be very nice if the stations kept to their programmes a bit better. 2BL has a mystery item (or should we call it a missing item), and we get dreamy songs and music instead. Farmer's often get lost, and the same may be said of 3LO. Far too many of their items are "Mist."

Yours, etc.,

ONE OF MANY,

Woonona.

ATTENTION, MR. WILLIAMS!

Dear Sir,—I feel I must reply to W. F. Williams' letter 10/6/27, re day and night reception on the Southern Tablelands. We listeners here in Goulburn, without exception, find 2FC at night impossible to listen to, being distorted and mushy. It cannot be the fault of the receivers, as our local radio club's band of some clever amateurs, and they cannot solve the trouble. May I suggest that 2FC send one of their experts to the country, where complaints are most numerous, and listen-in to the transmission and report?

Perhaps then we might expect an improvement. Personally, I consider my licence fee a gift to 2FC, as I refuse to listen to them till they improve. In my opinion, 3LO and 4QG stand alone for transmission.

Yours, etc.,

R. NEWTON.

Goulburn.

THE MAN FROM BARGO.

Dear Sir,—I have been deputised by a number of "ancient" wireless fans in the Bowral and Moss Vale district to trespass on your space to thank Mr. Williams, of Bargo, for pointing out to us so tactfully the reason why we fail to get stations 2FC and 2BL with that clearness associated with a Colmox Four Valve Receiver, a perfect aerial and earth, and the happy location of Bargo.

After reading Mr. Williams' letter, we are undecided as to whether we should scrap our "Super Heterodynes," Browning-Brakes, Ultra-dynes, Sciodynnes, Straight 0's, and other beginners' sets, and invest in a "Colmox" (this is not an advert.), or invite Mr. Williams to our district to show us how to work our sets and provide information regarding the suitability of our aerials and earths.

We are never too old to learn, and we feel that in this gentleman our only hope of salvation, from the difficulties that are worrying scientists, rests. We would suggest that he get in touch with 2FC engineers, who are perfectly aware of the distortion menace in certain districts (also applicable to 3LO), and suggest to them how to run their show to advantage, or shift the station to Bargo, which appears to be an ideal paradise for wireless reception.

We feel that Mr. Williams is hiding his talent and modesty under the proverbial bushel (at Bargo), and would like to see more of his writings. If he would touch lightly on the Fading problems and Heavy-side Layer, we feel that he could elucidate these mysteries.

We might also suggest that the educational part of his letter could be safely left in the hands of the staff of "Wireless Weekly," who we find are quite capable of transmitting knowledge acceptable to wireless enthusiasts.

Yours, etc., MOSS VALE.

TO BE CONGRATULATED.

Dear Sir,—Having been a listener-in since broadcasting of voice and music first came over the air in Sydney, I have been very much interested, lately, reading the queries and comments of other listeners-in, whose views are being aired in the columns of the wireless journal.

It must be no easy job to endeavour

to arrange programmes to please all classes of the wireless public, and I personally think that our local "A" class stations are to be congratulated on their varied programme, which must satisfy the majority of listeners. At the same time, I would like to express my views of certain broadcasting features which appear open to improvement, and I must say that these views are held by numerous friends and neighbours interested in wireless; namely, local programmes are too much alike in times and subjects to be broadcast.

A close study of the weekly programmes will invariably prove this. Take the items of the two stations from 6.0 p.m. to 8.0 p.m. Surely the public would be satisfied to hear Market and Stock reports; News, etc., from one station; the other could put over a topical and musical programme. After all, the town dweller must be catered for as well as the man on the land. But, if it is essential that we must have these reports from both stations, then why not arrange the times accordingly, so that anyone not interested need not shut down his set, but may tune to the other station, unless for otherwise. The average set owner does not want to be continually twiddling the dials around, searching the ether for something better from other States.

Personally, I have built up sets of four to five valves, and other setups, but I have always returned to my old three-valver, which gives me almost perfect reception on our local stations, whose modulation and clearness take second place to none of the interstate stations.

Another little squeak, and I am finished. Re Sunday programmes. We tune in to Church Services, morning, noon, and night, to 8.30 p.m. Again my first suggestion would apply here. One station could broadcast Church Service all Sunday and the other from noon could put over News, Band, or other concerts, and the usual evening programmes thus giving the whole of the listening public a variety to select from.

This is the age of Tolerance, and wireless, reaching out as it does to the furthest corners of the earth, should be its pioneer.

Yours, etc.,

P. McK.

Willoughby,

Will We Have Bedtime Stories by Mr. Lang?

Our 3LO Correspondent comments on the N.S.W. State Government's decision to enter the field of broadcasting.

The most important news in the wireless world is the establishment of a Government station for New South Wales. This marks a new departure in broadcasting.

It is, at the moment, uncertain, how such a station will be run. It has been described as a Class "A" station by Mr. Lang, which, if true, would entitle it to broadcast programmes and share in the licence fees with the two "A" stations already on the air.

The interesting query arises: "In what particular direction will a Government station be used?" The Government in power will, of course, have the right to use the station for propaganda, unless the prohibition against politics is enforced. As the station must of necessity come under Commonwealth control, Commonwealth regulations must prevail, with all its restrictions and prohibitions.

Deprived of political broadcasting, to what will the new station be reduced? To bedtime stories told by Mr. Lang to young electors—stories about the wicked ogre Mutch who eats little children? Stories about what happened to the children who tried to find their way through the dark wood of Politics? It is interesting to speculate. If propaganda can be shot through the air, we may expect interesting statements by Labor, as long as it is in power, relating to the wickedness of Nationalists. Each election will really be fought for the possession of the machinery of propaganda, the most powerful ever devised. The whole situation is full of interest, especially as a big fight is foreshadowed between State and Commonwealth rights.

"CRABBING THE ACT."

In the world of the theatre, when an actor grows jealous of a rival, he resorts to one of many ways of "crabbing the act," that is, of spoiling the success of the other chap. I think that something like this is happening in the world of wireless in Australia. By far the most successful of all Class "A" stations in the Commonwealth is the Melbourne station, 3LO. It was begun in the early days of radio, when everybody's predictions were merest guess-work, and

when failure was at least as likely as success. Nobody knew how the cat was going to twitch its whisker, so to speak. The two Melbourne stations followed the big Sydney organisation, 2FC. Indeed, that latter station, first in the field, contributed not a little to the idea which first enabled 3LO's programmes to be launched. Since then Victorian radio progress has been the most marked. This has not come by chance. It has been planned for, worked for. The result of the planning and the working has been to build up a tremendous goodwill, to use a commercial term, for the leading station, 3LO. It is sometimes overlooked that broadcasting is commercial, and that success attendant on it is to be paid for in commercial ways. There is no special reason why the customers of a broadcasting station are to be spoon-fed, why they are to be singled out to receive preferential treatment in the supply of what after all is only one of many public services they pay for and receive. The vendors of gas, of water, of coal, of groceries, are not taken to task for making profits in their commodities. If they fail to give service, they lose business, a punishment that peculiarly fits the crime. I have always felt it unreasonable that 3LO's service to the community it serves should not be gauged in the same way. If it is failing, there is a sure way of the failure becoming apparent. People will no longer pay for a service that is under standard. Licences will diminish, the Government will thereby lose money and will be justified in saying: "Tune up your service or go out of business." We cannot afford to have you fall down on the job you have undertaken."

Is this the case? On the contrary, each year has shown an increase of satisfied customers. Thousands of letters attest pleased licence-holders. They evince satisfaction in the only way possible among business men. They pay for the service, and the servant makes money. Is excellent service to make no profit in this, when it is not, only permitted, but encouraged in every other business activity? Wherein does broadcasting for entertainment differ from other entertainment, in which payment is by results in pleasure?

Mrs. Mahood whose talks on Arts and Crafts are a feature at 3LO.

I do not hold a single share in 3LO. I have no connection with the company, though I know its affairs with a fair degree of intimacy; it is as an ordinary citizen that I am constrained to protest against the prevailing idea that this company, alone of commercial undertakings, is expected to give its services for nothing.

MUSICAL HOURS: To train the youthful impressionable mind of the Child Listener in the path of appreciation of the Classics, Studio 3LO could not have devised a better method than the delightful musical hours arranged for the children by Mr. Fritz Hart, who, without sacrificing the artistic side in the least, has taken infinite pains to select those melodies that will best appeal to the childlike imagination, and leave it eagerly expectant, asking for more. From a similar standpoint may be judged the Classical Mid-day Half Hours arranged by Mr. Sutton Crew, who is doing so much to bring the home worker (as she sits over her luncheon) in touch with the works of the great composers, both of the past and present generation.



What's New In Radio ?

A New Title Required

VOLTON BATTERIES.

No B. battery lasts any longer than the life of the zinc. This is the most vital part of the battery, and keeping this in mind, the makers of Voltons have made use of the heaviest gauge of zinc possible for the purpose. To ensure against risk of breakdown, each zinc container is insulated from its neighbour. The container is made without a seam, thus overcoming seepage.

The Volton is a quality product, only the best and purest of ingredients being used. Made in the convenient size of 43 volts each, with tappings from 18½ volts to 221 volts, it is ideally suited for Australian conditions. Long life is the star feature of Voltons.



AIRZONE EQUAMATIC KIT.

The Equamatic Coil Kit, introduced to the Australasian public by Messrs. Airzone, Limited, represents a distinct advance in R. F. Coil design.

An inherent weakness of the usual tuned R. F. Coil is that the degree of selectivity is not constant over the whole tuning range. This means that on high wave lengths the selectivity will be better than on the short waves.

But a more important factor is that the transfer of energy from primary to secondary varies with frequency, consequently broad tuning and troublesome oscillation is usually experienced on the low wave lengths.

By a mechanical arrangement, the energy transfer is made practically constant over the effective tuning range in the Equamatic Coils.

The primaries are pivoted to spindles intended to be coupled to the new hollow spindle condensers, recently introduced, and by arranging the coils in a suitable manner the



coupling is varied from maximum with the tuning condenser full in to a minimum at zero.

The Coils are wound with green silk wire on Radion tubing and all metal fittings are heavily plated.

They are of very attractive appearance and their selectivity should make them immediately popular.

THE CLARITONE SPEAKER.

Choosing a loud speaker is oftentimes a difficult job. One looks for tone and robustness of construction. Recently we tested two models of the Claritone speaker, both measured up to expectations. Each was able to handle the output of a multi-valve receiver with every degree of comfort.

In addition, the Claritone Statuette Super Speaker presents a neat ornamental appearance, exceeding the ordinary.

Messrs. Weldon Electric Supply Co., Ltd., of 352 Kent Street, Sydney, are the N.S.W. agents.

UX-240.

The UX-240 Radiotron is a storage battery tube, with a one-quarter ampere, long-life filament of the thoriated tungsten type. A standard UX base is provided. This tube is intended to provide the highest practicable voltage amplification so essential in resistance-coupled amplifiers. This method of amplification, in contrast with the transformer-coupled method, depends entirely upon the tube for the step-up effect. In transformer coupling, on the other hand, the step-up effect is brought about by the transformer ratio as well as the tube. Therefore Radiotron UX-240 has been designed to provide an amplification factor of 30.

Characteristics, filament voltage 5 volts, filament current .25 amperes, plate current at rated voltages 2 milliamperes. Our sample from Amalgamated Wireless.

BYPASS CONDENSERS.

Close analysis of several receivers known for their lack of background noise shows that this result is obtained by extensive bypassing, using good, ample condensers for the purpose. If each B battery lead is thus treated the so-called stray battery noises will mainly disappear.—C.P.

What is one to call an official fulfilling the functions of a describer of passing events for broadcasting? "Describer" is ugly and "Announcer" is misleading because an announcer usually only announces things prepared for him. It is difficult to hit precisely the word that will euphonicly fit the function. The British use "Commentator" and call the talk a "commentary." That is better, but still hardly fills the bill. "The Herald" Melbourne, recently called for suggestions in this regard and got some hundreds of replies, none really meeting the situation. It is a function that really needs a suitable word to describe it and the "met jects" would be used, not only here, but abroad, for it is coming to be more and more of a necessity to have public events described through the microphone. Newspapers might ask their readers to rack their brains. Stations might put the problem to listeners. In a multitude of counsellors there should be enough wisdom to evolve a suitable term.

UNDER THE NEW MICROPHONE

system, introduced to the Studio of 3LO, a general improvement in the broadcasting of band music is made possible. Hitherto, the grouping of bandmen or instruments to obtain the best possible result with one microphone has been the cause of much research and worry to the studio authorities. Some instruments suffered at the expense of others, but it was often found impracticable to use more than one "Mike" because of slight distortion. However, 3LO's new microphone system will allow of as many as 16 microphones to be used at once on the one item. For instance, with Aronson's Symphonic Symphonists there are often six solos played during one number, and each instrument is heard over the air with its real proportionate volume.

CARLTON CHASE: American entertainers are a rarity in the programmes of 3LO, but the scarcity will be relieved by the inclusion of Carlton Chase in next week's entertainment. Carlton Chase is no stranger to Australian audiences, having made several tours with J. C. Williamson and Fuller companies. His original engagement in Australia was with a show called "The Grafters," which was a great success, being the first of a new style of farce comedy. Mr. Chase possesses a large repertoire of smart songs, monologues and stories, together with a voice admirably suited to broadcasting.

It's All in the Air



Raymond Ellis.

RAYMOND ELLIS: Raymond Ellis, English lyric baritone, late principal of the British National Opera Co., will open a series of recitals and talks from 2EL, beginning on Tuesday, June 14, and continuing each week for six weeks. Since Mr. Ellis' last appearance, he has spent a great deal of his time in South Australia and Victoria, where he was frequently heard on the air from 3LO. He also gave thirty-two lecture-recitals to schools and colleges. He made a most successful appearance recently as "Eljah" with the Melbourne Philharmonic Society. The Melbourne press speaks highly of his performance, coupling his name with those of Horace Stevens and the late Andrew Black, who was considered the finest interpreter of "Eljah." Next Tuesday, Mr. Ellis will open his programme with a talk on, and examples of Schubert's beautiful songs.

DURING THE WOMEN'S SESSION from 2BL daily, which commences at 11.15 p.m., conducted by Mrs. Jordan, arrangements have been made on Wednesday of each week for a representative of the Dental Board to give a talk on "Dental Hygiene." These talks are of particular interest to mothers re their little children, and if the women listeners—to will take the trouble to listen-in to the Women's Session on these dates, particularly, it will not only be worth while, but they will be hearing some of our best doctors and lecturers on this subject.

BACH'S MASS IN B MINOR—SPECIAL RECITAL FROM 3LO STUDIO: Encouraged by the success of previous elaborate musical studio productions, 3LO Melbourne on Wednesday, July 6, will essay a composition of even a higher musical standard. Under the conductorship of Mr. George English, the Victorian Postal Institute Choir of 180 voices, together with a full orchestra, will give a recital of Bach's Mass in B Minor from the studio, the entertainment commencing at 8.15 p.m., and occupying two and a half hours. Listeners have come to expect perfection in entertainment whenever the Postal Institute Choir has been engaged, and as Bach's Mass is one of their best numbers, an excellent rendering can be relied upon.

KGO SPECIAL BROADCAST.

At 8 p.m., Sydney time, on Sunday, June 26th, KGO, the well known California Station, will come on the air with a special transmission, during which the Government Astronomer will describe the Ponswecke Comet. This comet has been picked up in the Northern Hemisphere, and is slowly travelling south, towards Australia.

KGO will broadcast on 301 metres. The power is 4000 watts.

MR. ANDREW BETTS is a new artist who will appear on 2BL's programme on Friday, 24th inst., and is the possessor of a fine baritone voice. Broadcasters, Ltd., have been successful in arranging with the North Sydney Tramway Band to broadcast them on every alternate Sunday, commencing from Sunday week, 26th June. The band, which numbers approximately 30 members, is ably conducted by Mr. W. T. Barnes.



Miss Tessie Marshall, popular 2BL artist.

LOST HEARTS: Very special attention has lately been paid to the arrangements for the Children's Hour at Studio 3LO, and all sorts of good things are coming along for the youngsters. It would spoil the excitement and anticipation if they were told everything at once, but for this week, to commence, they are to have a delightful fairy playlet, with the fascinating title "Lost Hearts," which is to be given by the pupils, and under the direction of Miss Yetty Landau. As will be remembered, Miss Yetty Landau has often been heard over the air from Studio 3LO in the Children's Hour, and it is safe to say that her dainty little playlet will more than come up to the expectations of the young people.

FLYING VIOLINIST: An interesting fact in connection with Mr. Donald McBeath, the talented violinist, who is now delighting Listeners with his masterly playing from Studio 3LO, is with regard to his flying. During the War, he was a Captain in the Air Force, and did some particularly daring stunts, one of which was to fly under Niagara Bridge, in the presence of cheering multitudes. It was not nearly the plain sailing that he had at first anticipated, for he experienced great difficulty with the many air currents—but he succeeded in landing safely on the other side, much to his own relief, to say nothing of restoring peace of mind to the onlookers.

SPECIAL SUNDAY PROGRAMME: The musical programme offered by 3LO on Sundays has come to be regarded as the high water mark of broadcasted entertainments, and every week fresh efforts are put forward to maintain this standard of excellence. On Sunday, June 26th, we are to have another of the enjoyable recitals by Mr. Joe Aronson's Military Band, the previous performance of which have been so much enjoyed by Listeners. This Band is not to be confused in any way with the Syncoating Symphonists, who broadcast the lively dance music each night, but is a combination of musicians—each master of his own particular instrument, especially chosen and rehearsed by Mr. Aronson to provide Classical and Operatic Selections on Sunday nights.

EDUCATIONAL LECTURES: On Friday, July 1, 3LO embarks upon a new system of Education Lectures, primarily with a view to assisting Students, but which will be of great interest to everyone. The Lectures will take place between the hours of three and four o'clock, and will be under the direction of the Rev. Kenneth Henderson. On glancing through the syllabus, one notices that there is not one branch of education that has been overlooked, or practically a subject of any importance that has been ignored. Thus, on one afternoon, there will be a talk on Orchestral music, profusely illustrated by the Studio Orchestra, on another, French will hold pride of place, with lessons in both grammar and pronunciation and travelogues in many lands, with graphic word pictures, skilfully drawn, will transport Listeners to scenes of world-wide Commercial, Historic, and Scenic interest.

NATIONAL MUSIC NIGHTS: Students, and all others who are becoming interested in music through the medium of the very excellent series of Lectures that have been broadcasted from Studio 3LO, will be glad to know that Mr. Sifton Crow, of the University Conservatorium, will again resume the National Nights, which were such an outstanding success last year. It will be remembered that Mr. Crow gave many of these nights last season, dealing with a particular Country, its Composers, and the National, Folk, and other music for which it was famous. For the coming Season, Mr. Crow has delved deeply into the musical lore of many other countries, which will be valuable knowledge to all interested Listeners. As is usual on these occasions, he will have the co-operation of some of the clever Conservatorium students to enable him to "illustrate" his lectures both vocally and instrumentally.



Jack Lumsdaine, back again.

Here's a hail our readers will be glad to hear:

"Hello! Station 2FC, Jack Lumsdaine speaking." Last Saturday night I sat back in front of a very nice fire and heard Mr. Cochrane's voice with the familiar "Station 2FC speaking." It made me feel quite homesick, and certainly made me think of all my dear radio pals in Australia.

I think it will be of interest to you to know that I broadcast from the Auckland Station last Thursday evening. Uncle Jack Prentice, late of 2BL, is in charge, and it was quite a happy little reunion. It was all the more wonderful inasmuch as the phone was continuously ringing from New Zealand people who had picked me up from 2FC, and were asking me for some of the numbers which are your favourites—"Thermogene," "Gimme A Little Kiss," and "Kentucky's Way," were in great demand, and judging by the reports next day, the transmission was very successful.

3LY is a compact studio, with surroundings, I should say, equal to anything in Australia. The control is carried out in the buildings, and is then transmitted to the top of a very big store not more than a hundred yards away from the Station. It was rather a weird thing to hear myself singing over the air, but this was a fact.

I was to have broadcast on the day we arrived, but as the ship was fifteen hours late, owing to rough weather, the broadcasting people put on my record, "Bye, Bye, Blackbird," on the air, and this was picked up very clearly on the loud speaker on the "Marama" coming up the harbour.

The people of Auckland have made me very welcome, and give me a wonderful reception at every appearance at the Theatre, but I look forward to the time, not very far distant, when I will be able to talk and sing to you all again from 2FC.

And so do we "look forward to the time"—and we are overjoyed to know it will not be long before this popular artist is with us once more.

A WHISTLING COMPETITION.

3LO, Melbourne, fruitful mother of airy ideas, has decided on a whistling competition. Heaven knows what rules will be made in this connection, but I greatly fear that it may revive a form of torture from which I devoutly hoped we were rid for ever. Time was when the milkman, the butcher's boy, the postman, and the baker all went about their work to an obligato of cheerful, maddening whistling. This died away, to be superseded by the saxophone. Now it is to be resuscitated. Whistling, plain and fancy, with two fingers, with three, with the whole hand is to be encouraged and prizes are to be given for the most excruciating noise. Terrible! Of course, there is whistling and whistling. I recollect Albert Wholan, melodious as a magpie or nightingale, with whistle as soft as a sucking dove. It's not the experts I fear, but the rank amateurs practising for entry. Suburban streets will ring to the shrill whistled strains of "Bye, Bye, Blackbird," or "In a Little Spanish Town." I suppose everything should be forgiven to a station with the creditable litch to produce something new ever so often for its customers. But whistling! Well, all I can say is that if it leads to jazz lip-music in my suburb, I will refuse to pay my licence fee. Some 3LO expert can whistle for it.

STEPHENIE DESTÉ AGAIN!

Listeners have pleasant memories of the excellent educational recital given in a recent Sunday night programme from 3LO Melbourne, by Miss Stephenie Desté, of "Rose Marie." Miss Desté will repeat "Edinburgh after Flodden," one of the most popular items of her repertoire. After she had recited this number on her last visit to 3LO she received an interesting letter from a person who claimed to be the descendant of the hero of the story. "Edinburgh after Flodden" happens to be one of my favorite poems," he wrote. "It happens that I can trace my ancestry back in a straight line to the hero of the story. There has been a Randolph in every Murray family since. The story has been handed down from generation to generation." The writer's name was also Randolph Murray.

Wrestling Stars at 3LO

YOKEL'S YARNS TO YOUNGSTERS: The kiddies that listen in to Studio 3LO on Monday night, June 27, will indeed be lucky, far more fortunate indeed than their elders, for they are to have some wonderful tales of adventure told them. They will be the kind of tales every one will enjoy, thrilling and exciting of kindly bears 'way up in the Yukon District—of wonderful dogs that trail through the ice bound desert, and of lonely trappers who are often snow bound for months at a stretch. Now, the best part of a story is firstly the way in which it is told, and secondly, the teller of the tale, and when it is explained that these exciting stories will be told by no other than Mike Yokel, who is not only the Middle-weight Wrestling Champion of the World, but has actually been in all the exciting adventures he will narrate, it will be seen that a great treat is in store. As is generally known, "Mike" is a great favorite with the kiddies, having eleven little "Yokels" of his own, and, as a story teller, I have heard he is second to none.

KARASICK ON KEEPING FIT: Few people these days are not interested in some form of health food. In spite of what we say to the contrary, we find ourselves persuaded that Brown Bread really does contain more Vitamines than White, and that sultanas and nuts contain more brain forming properties than a pound of beef steak. In these days when everything is "specialised," when fat people are striving to get thin, and thin folks are wearing themselves out in an endeavour to put a little more flesh on their bones, a Talk on Diet and Exercise will command attention, especially when it is delivered by a person who is an authority on the subject, and whose name is literally a household word. When it is known that Alf Karasick, the late Heavy-weight Champion Wrestler of Russia, a perfect picture of fitness and physique, is to deliver Lectures on Diet and Exercise, from Studio 3LO, and will doubtless broadcast some of the menus that keep him in the pink of condition—his is sure to command the undivided attention of the majority of Listeners.

MR. E. G. FLETCHER: On Monday, July 4th, Mr. E. G. Fletcher will talk on "The Problem of the High Cost of Living," and on Monday, July 18th, on "The Fruits of a Great Injustice." These talks will prove very instructive, and 2GB is extremely fortunate in possessing such an able speaker.

£50

WAITING TO BE WON!

Get the full story by calling or writing to:

**THE SYDNEY
RADIO CO. L^{TD}.
60 Castlereagh St.
(Next Carlton Hotel)
SYDNEY**

**IT'S EASY!
IT'S INTERESTING!
IT'S PROFITABLE!**

CASH ON DELIVERY.

Avail Yourself of the Postal Department's
Value Payable Post System and Pay on
Delivery.



The CLAROSTAT

Supreme Volume Control
and Tone Purifier.

Price . 12/-

THE ELSTREE SOLODYNE
Are You Interested?
Build it From our Parts.

—THE SELECTRO— CRYSTAL SET

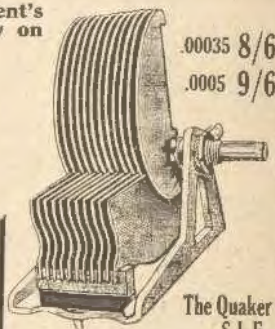
THE PARTS

	s.	d.
1 Bakelite Panel, 10 x 6 x 1-8	2	6
1 Quaker .0005 L.L. Condenser	9	6
1 Black Engraved Dial, 4in	2	6
9 High-grade Panel Plugs, at 2/6 ea.	5	0
1 Strip Bakelite, for Mounting	0	2
1 ROC Midget Lowloss Condenser	3	0
1 lb. 24 DCC Wire	1	7
1 G. and S. Silk Core Crystal Detector	8	3
1 35 Turn Apex Mounted Coil	3	4
1 250 Turn Apex Unmounted Coil	3	3
4 Nickel Plated Terminals, 3d.	1	0
1 3in. Cardboard Former	0	0

Total . . . £2/0/5

The following parts can be substituted
if desired:—

1 Emco Stratelene Condenser, .0005	12	0
1 4in. Length of 3in. Radiion Tube	3	4
1 35 Turn Reactone Coil	6	0
1 Ebonite Panel, 9 x 6 x 3-16	1	6

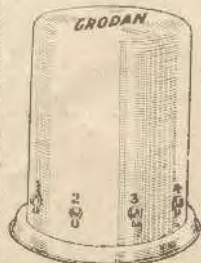


.00035 8/6

.0005 9/6

The Quaker
S.L.F.

We specialise on
"Wireless Weekly" Sets
Send for Diagrams and
Price Lists.



£3.7/6

KIT

of

3

GRODAN SCREENED
SOLODYNE COIL

COUNTRY CLIENTS!

We pay carriage on
all orders of 10/- and
over, except on Batteries,
Cabinets, Loud Speakers
and C. O. D. Parcels.

Our Goods carry a Guarantee
of SATISFACTION or MONEY
BACK if returned to us in
good order within seven days

TELEPHONE,
M3049



The NEW CERTIFIED LOW
LOSS CONDENSER

Size .00035

9/6

THE ECONOMIC RADIO STORES

Branch—

369 Hunter Street West, NEWCASTLE
Place, New 1622

25 New Royal Arcade, SYDNEY

Near Palace Theatre.

Branch—

Gr. Church & Macquarie Sts., PARRAMATTA
Phone, UW 9601

At Last—A Selective Crystal Set

A simple crystal which will tune in the local stations without interference, providing it is constructed according to directions and aerial and earth connections are not faulty. Any novice can build it at comparatively little cost.

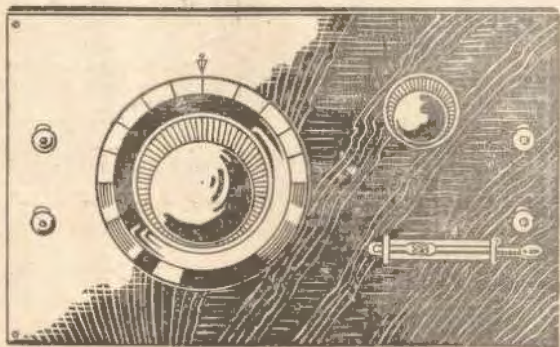
A CRYSTAL receiver which boasts of selectivity. Inexpensive. Written so that the absolute beginner can understand it and make one like it.

Parts for the "Selectocryst."

- 1-Dilecto or Radion Panel, 10x20x or 3-16th.
- 1 Length of 4 inches of 3-inch diameter Dilecto or Radion Tubing.
- 1-0005 Emnico Stratelyne Condenser.
- 1-3-inch Dial.
- 1-Advance Midget Condenser.
- 1-Lion Maxtone Crystal Detector.
- 4-ozs. No. 24 D.C.C. wire.
- 2-Fixed Coupling Plugs on small Dilecto panel.
- 1-25 turn or 35 turn Reactance Coil.
- 1-250 turn Honeycomb Coil.
- 1-Baseboard 0x8x8 $\frac{1}{2}$.
- 4 Terminals.

That the average Australian listener is a valve man is a fact which very few people can refute. Crystal receivers a few years ago were very popular, but to-day they are very much in the minority. Some there are who prefer crystal receivers for several reasons. Firstly, the quality of reception from a crystal detector is very sweet and with the high power of the present day broadcasting stations excellent, earphone volume is available. Where one or two pairs of binaurals are used a good crystal set is all that is really required for receiving the local stations.

It is, of course, not to be expected that a crystal set will function on a loud speaker. This is a wishing too much, but as stated, for earphone work a crystal receiver is ideal. An-



The front panel of the receiver.

other reason for the existence of a crystal set lies in the fact that a crystal receiver is inexpensive to make and also cheap to maintain. There are no batteries or valves required, simply the set, with 'phones, and a good aerial and earth system. This latter factor plays a most important part in crystal reception.

A good aerial about 50 feet high and 100 feet long overall, free from buildings and trees will work wonders. A single wire of 3-20 gauge is all that is required. But remember the insulation. At each end there should be some good insulator or insulators. The small egg-shaped porcelain insulators will do, but connect three in series at each end. The down lead may be of the usual electric insulated wire, but should not on any account touch the house or buildings. This includes the gutturing of a house. This is particularly stressed, because it is a common sight to see the aerial lead-in lying on the iron roof and on the gutturing. Keep clear of these. Incidentally, the lead-in should be soldered to the aerial proper.

On entering the house some form of lead-in tube or rod should be availed of. There are several different forms on the market, the constructor may choose a type to suit himself.

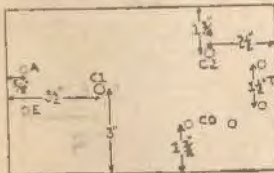
The earth connection is fairly simple, but, nevertheless, is of great importance. Too much stress cannot be placed on this fact. The good old water pipe is perhaps the best form of earth for the average receiver. It is difficult to solder to the water pipe, so do the next best thing, clamp an

earth clip to it and fix the earth wire to this clip. Realize that it is necessary that the water pipe at the point where the earth clip is clamped should be thoroughly cleaned. With a file or a piece of sandpaper remove the surface dirt, and when the pipe is properly cleaned firmly clamp on the earth clip.

The earth wire may either be insulated or bare wire. There are many different opinions of the merits of insulated over bare wire, but we won't enter into this in this article. Suffice it to say, that the earth wire should be stout and stout, at least it should not be of a smaller gauge than the aerial wire. These introductory remarks on the aerial and earth system are for the benefit of the beginner. Further hints on this subject may be obtained from "W.W." 28/1/27.

Coming back to crystal sets, it must be agreed that the main trouble met with is the lack of selectivity in the average crystal receiver. A receiver that is not selective is, to say the least, a nuisance. Instead of hearing only the one station at one time, two or sometimes three stations all come in, in a jumbled fashion, at the one time. Certainly a disadvantage, and to be avoided. This bad state of affairs may be overcome by making the receiver selective.

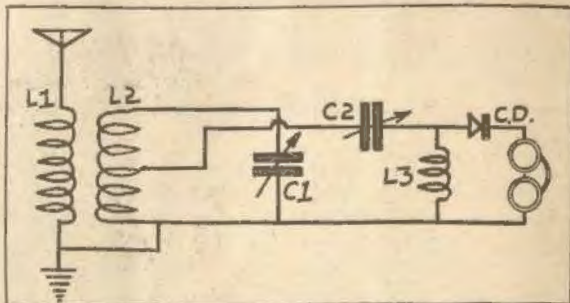
There are different ways and means of making a receiver selective. The most favoured is by means of inductive coupling. To explain this briefly won't be out of place here. When two coils of insulated wire are placed side by side and a current is introduced into one coil, the adjoining coil



The panel drilling template.

collects some of this current although it is not directly electrically connected. The current in the second coil takes the same characteristics as the current in the first coil. This principal is known as induction as a current is induced in the second coil from the first coil. The amount of current induced varies according to the distance one coil is from the other, and this system again is known as loose coupling. Suppose we find that two stations are interfering with one another in the receiver. Moving the aerial coil—the coil which picks up the original energy—further away from the secondary coil—the coil which collects the induced current from the aerial coil—tends to eliminate the unwanted station. Conversely bringing the coils more closely together also has this effect. Of course, it must be understood that this subject of induction and coupling is very vast, and it would take several "W.W.'s" to describe the principles fully. For our purpose at the moment this short explanation will suffice.

The circuit of the receiver about to be described is produced here. It will be seen that L1—the Reaction coil—is coupled to L2, the secondary coil. Here is the loose coupling spoken about. The secondary coil L2 is tuned by a variable condenser, C1, whereas the aerial, or primary coil, L1, is left untuned. This is known as an aperiodic primary. The secondary coil, L2, is tapped in the centre so that a fine adjustment is obtained. The crystal detector is connected to this centre tap through the small Advance condenser. The 250 turn honeycomb coil acts as a high frequency choke and provides a path for



The circuit.

the current which flows through the 'phones.

The front-panel lends itself to a neat layout. The dial for tuning the .0005 variable condenser is on the left, near to the aerial and earth terminals. There is no mistaking the crystal detector, above which is the knob for Advance midget condenser. The telephone terminals are plainly seen.

The secondary coil should first of all be constructed. Pick up the Radion or Dilecto tubing, and at a distance of 1/2 an inch from one end drill two small holes half an inch apart. These holes should be just small enough to allow the 24 gauge wire to pass through. Pass this wire through one hole and up through the second hole and back through the first hole. This holds the beginning of the wire securely.

New wind on each turn close to the adjacent one, 25 turns of wire, and

take the 26th over a space of about 1/2 of an inch. Continue winding until 50 turns are wound on, finishing off by threading through two more holes in a similar manner to the start of the winding. On the same level provide at a quarter of an inch from each edge a small hole about 1/16 of an inch in diameter to accept a wood screw which fixes this coil to the baseboard.

Lay this coil on the one side and mount the fixed coupling plugs on a small piece of panel, size 1 1/2 x 1 1/2. In one of these small subpanels provide one hole in one corner big enough to allow a wood screw to pass through. The other subpanel should have a similar sized hole in each corner for fixing to the baseboard permanently.

While you have the drill in your hand, drill the main panel. The panel layout diagram will give you the necessary dimensions. Mark out the positions first with a centre punch or a nail in order to prevent the drill from slipping. Drill three holes for fixing the panel to the baseboard at the bottom of the panel. Don't forget that the Emmco condenser requires three extra holes for fixing to the panel. These holes should be counter-sunk. Mount the panel parts, then look to the baseboard.

First of all shellac the baseboard. Now fix the panel to it and proceed to lay out the parts. The plan view shows the correct scheme. Find two small pieces of wood about 1/2 an inch long by 1/2 an inch square, or two small pieces of fibre, or dilecto rod about equal dimensions. Drill these and use them to keep the secondary coil off the baseboard; they are really small pillars. Mount the secondary coil as shown. Alongside it, at one end, mount the coil plug, which has only one hole in the subpanel. Use another similar smaller pillar and so mount this holder that it may be swung toward or away from the



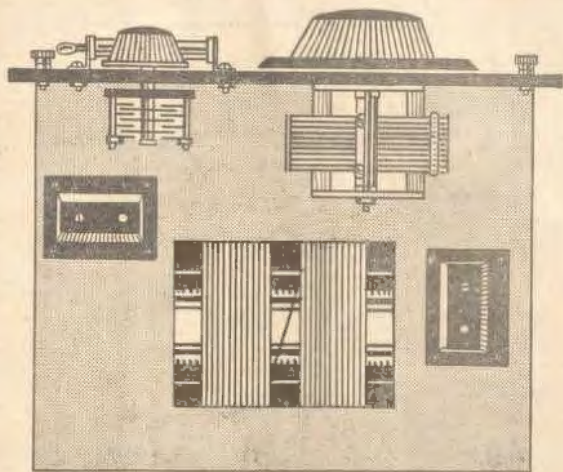
The back of panel view showing parts in position

secondary in a similar manner to the action of a door. The wood screw which goes through the subpanel and the pillar and into the baseboard acts as a hinge.

Next fix into position the remaining coupling plug, this being screwed to the baseboard permanently and at right angles to the other coil. The best place for this is behind the mid-gut condenser of the panel. Remember to provide means for making connections to these coil plugs. This is best done before fixing to the baseboard. A small piece of busbar may be looped and clamped under the screws which make contact with the pin and socket of each plug, and which are used for mounting the plug on the subpanel.

Now begin the wiring. The back of panel wiring diagram is self explanatory in this direction, but the beginner will also understand these wiring instructions. Connect aerial terminal to one side of the coil mount, next to the secondary coil (30 turn home wound coil), and take a connection from the other side of this to the earth terminal, and also the far end of the secondary coil. From this end of the secondary coil take a wire to the moving plates of the large variable condenser, and from there to one side of the coil mount behind the smaller midgut condenser. The other side of this coil mount (for 250 turn coil) is taken to one side of the crystal detector, and also to the moving plates of the midgut condenser.

The fixed plates of the midgut condenser join the centre of the secondary coil. The cotton should be scraped off a small portion of this middle turn, and this connection sol-



The plan view of the receiver showing layout.

dered to it. Now join the fixed plates of the larger condenser to the remaining end of the secondary coil, that is the beginning near to the aerial coil. The remaining side of the crystal detector take to one 'phone terminal, the other terminal of which join to same end of the choke or 250 turn coil, which goes to the earth terminal. And that is the lot.

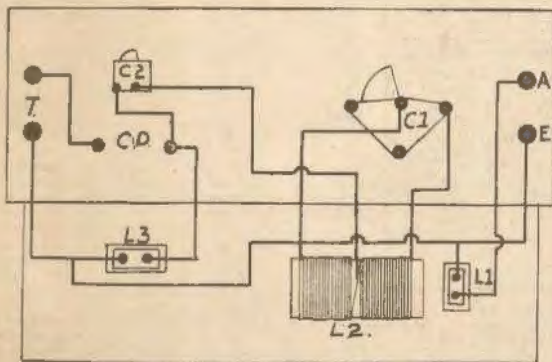
Check over with the back of panel and the circuit, then test out. Hook

on the aerial and earth and the 'phones. Plug a 25 turn Reactone coil into the coil plug near the secondary, and a 250 turn coil into the coil plug behind the midgut condenser. Swing the primary coil as close as is possible to the secondary coil.

Gradually turn the larger condenser dial and a station will soon be heard. The midgut condenser should be set at the minimum position, that is, with all the moving plates out, at this stage. When the big condenser brings in the station at its loudest point, slowly turn the knob of the midgut condenser and the volume will increase as the capacity is increased, dying away if too much capacity is used. Turn back to the point when the volume suddenly rises and leave it at that.

Now seek the next station. Is it there alright? Look to the crystal detector. Find the most sensitive arrangement. Retune again slightly. Fine, isn't it? If a slight background of any undesired station is heard gradually swing the primary coil (L1) away from the secondary and retune with the big condenser. That will fix matters.

You will like this crystal set. It is really good and will find many friends. And don't forget the crystal owner of to-day is the valve owner of to-morrow. Finally, if poor results are in vogue, reverse the connections on the primary coil and sometimes on the choke. We will leave it to you.



The back of panel wiring diagram.

Radio Enthusiast!

Let your next—
Purchase be
TAB DRY
Rechargeable "B" Batteries

35/-
Each

The TAB
Battery
"Has Many
Lives"
Lasting
up to 2 years

The TAB
Battery
can be
Recharged
6 to 8 times.

This is
equivalent to
buying 7
Batteries for
the price of
one.



Australian Agents:

LATIMERS WIRELESS SUPPLIES LIMITED

151 CASTLEREAGH STREET, SYDNEY

Tel. M 3004

Wholesale Department: 3 HAMILTON STREET. Tel. BW 6902.

All Readers' Queries Answered Here

QUERIES

Will readers kindly note that all technical queries are answered through the columns of *Wireless Weekly*. There is no occasion to send either stamps or addressed envelopes. The only condition is that the number of questions be limited to four. We unfortunately cannot deal with technical queries by telephone or by personal callers.

"ALSTON" (DALMORE).—Re Capacity Coupled One Valve of 71/12/28 sub.

Q.: (1) I have at present 2,000 "Advance" S.T.E. Condensers, would they do instead of the Wallace brand that you mention in the article?

A.: Yes; any good brand of condenser will do.

Q.: (2) I have noticed that the "PMA" brand midge condensers are made with 7 plates and 15 plates, which one would you prefer for the above receiver?

A.: Use the 7 plate size.

Q.: (3) I intend to add one stage of audio as described in your issue of 7/1/37, to this set. What would be the best valve to use in this stage. I intend employing a UX109 (Radiotron) to the original set.

A.: Another UX109 or Mullard PMA or B05 or H13. All are good valves.

STYLAMENT (KIN-KIN, Q.).—Re the Solodyne!

Q.: (1) Would 2 "Ferranti" Transformers be an improvement on 2 "Advance"?

A.: Both transformers are very good. I cannot express my private opinions through these columns. It would be obviously unfair.

Q.: (2) Is it necessary to have two different makes of sockets, or would five "Benjamin" sockets do?

A.: Five "Benjamin" sockets would be quite in order. I happened to have two different makes on hand when the Solodyne was built, and, true to my principles, I gave the brand of every part actually used in the receiver.

J.P.M. (JUNEE).—Q.: Is the R.F. Choke necessary with three stages of *Benjamin* coupled Audio, I desire to use an *Ambi* unit?

A.: Try without it first.

Q.: Why do the first and second tuners join to +F and the third to plus-E. I am anxious to learn?

A.: It is generally usual to bring the detector grid return to positive and not negative as with R.F. and A.F. valves. To explain would involve quite a big dissertation. Build the 2 valve Wave Trap. Reverts in "W.W." 12/5/37. See United Distributors about the Centralap Modulator.

L.B. (PITTSBURGH).—Q.: (1) Re the Solodyne, coils on split primary appear in wiring diagram to be wound on opposite directions. Is this so?

A.: No; but remember that the neutralizing winding is wound on the primary former first and a layer of Empire cloth is wrapped over it, on the top of which is the primary winding to be wound. Each winding consists of 25 turns of No. 30 D.S.C. wire. The secondary comprises 90 turns of No. 30 D.S.C. wire wound 40 turns to the inch. This is necessary, and all windings are in the same direction. The primary and neutralizing windings should be so arranged as, when fitted, to come in the centre of the secondary coil. The reaction winding is 25 turns of No. 30 D.S.C. wire wound below, but in the same direction as the primary and neutralizing windings. Let 1/2 an inch separate the primary from the reaction winding.

(Continued on page 62.)

Guaranteed Radio Parts

COUNTRY CLIENTS NOTE—Postage Paid on Orders over 10/-, with the exception of Sets, Loud Speakers, Batteries, Aerial Wires, and Value Payable Parcels. All goods sold with a Money Back Guarantee if not satisfied and returned within ten days money will be refunded.

HERE IS A LIST OF PARTS

To Build the Wonderful

SOLODYNE

1 Bakelite Panel, 21 x 7 x 5/8, 12/-	Dilecto ..	15/-
1 Igranic Three-gang, .0005 Con., with balancing Con.	.....	25/12/6
1 Pilot Vernier Dial, 6/8, Emeco Bakelite	..	7/6
1 MacLurcan Tone Purifier	.....	21/-
1 .00025 Variable Condenser, Advance, S.L.F.	.....	10/-
1 Radiokes Kit, split primary screened coils	.....	23/15/-
3 Brown Bakelite U.X. Sockets, each, 1/8;	Benjamin	each 5/-
2 Advance Midget Condensers	.....	each 6/6
2 Advance L.F. Transformers, each, 17/6; Geoc L.F.	.....	each 32/6
5 Automatic 1-amp. Brachstats	.....	each 4/9
3 T.C.C. 2 mf. Condensers	.....	0/9
1 Terminal Board	.....	2/8
1 Radiokes R.F. Choke	.....	8/6
1 Knob for Condenser	.....	1/-

IGRANIC

Three Gang CONDENSER

For SOLODYNE

STOCKS NOW AVAILABLE.

ORDER EARLY, BEFORE STOCKS ARE DEPLETED.

HELLISEN'S BATTERIES

NEW SHIPMENT JUST OPENED.

45 Volt WIPYT, Tapped	.....	13/6
45 Volt KOKIK, Tapped, large capacity	.....	25/-
60 Volt WIRIN, Tapped	.....	18/6
80 Volt KOLIN, Tapped	.....	35/-

All goods advertised by the Wholesale Houses stocked by us, and include, Grodan, Radiokes, Advance, Emeco, Phillips, Geoc, Radiotron, Mullard, Cosnar, Amplion, Columbia, Burgess, Philco, Exide, Clyde, Marco, Pilot, Brandes, Brown, Jefferson, Balkite, Igranic, Electrad, Wetless, Airzone, Renrade, Colmvox Products.

Charge Your Own Batteries!

The Colmvox A. and B. Charger solves the difficulty—it charges while you sleep, put your A. Battery on overnight once a week, and your B. Battery once a month, and keep them always fresh. Your Batteries will last twice as long if charged with a Colmvox Charger.

Colmvox A. Charger	.....	CASH PRICE, 25/10/-
Terms, 30/- deposit and 12 weekly payments of 7/6.	.....
Colmvox A. and B. Charger	.....	CASH PRICE, 26/10/-
Terms, 35/- deposit and 12 weekly payments of 9/-.	.....

Colville Moore Wireless Supplies Limited,

10 ROWE STREET (Next Hotel Australia) SYDNEY.

Phone, B 2261

The SIGNOLA 6

Six Valve, Single Dial

The **SIGNOLA 6** is a true Single Dial Six Valve Receiver which embodies the latest ideas with new improvements, which are distinctive to the **SIGNOLA** alone. Fitted in solid maple cabinet, two-tone walnut colour, duco finish of very pleasing and neat appearance. **SIMPLE** to operate.

Just a turn of the dial—and near and distant stations tune in with wonderful volume and tone. Beautiful mechanical construction, matched transformers and synchronized tuning units permit absolute **SINGLE CONTROL**.

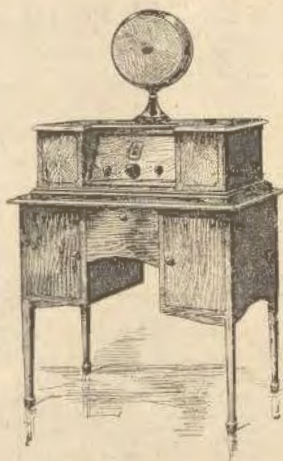
Wonderfully economical on Battery Current.

SOLD WITH OUR GUARANTEE.

Model C26

With all accessories,
including Tefag Cone
Speaker, without
Battery Table

£59/10/-



Model C27

With all Accessories,
including Tefag Cone
Speaker and Battery
Table as illustrated

£66/17/-

Sole Australian Agents:

WILES WONDERFUL WIRELESS
And ELECTRICAL STORES

Pitt and Goulburn Streets, Sydney.

BROADCASTING PROGRAMMES

for the COMING WEEK

Friday, June 24

2FC, SYDNEY.

Farmer's Broadcasting Service.
Wave Length, 442 Metres.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and programme announcements.
7.8 a.m.—Studio music.
7.15 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
7.35 a.m.—Investment market, mining share market, metal quotations.
7.55 a.m.—Wool sales, breakfast, markets, lingerie markets, produce markets.
8.45 a.m.—"Sydney Morning Herald" summary.
9 a.m.—"Big Ben" Close down.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.35 a.m.—Studio music.
10.55 a.m.—A Reading.
10.55 a.m.—Studio music.
11 a.m.—"Big Ben" and marching music for school children.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
12.15 a.m.—Marching music for school children.
11.59 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.
11.55 a.m.—Class down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.5 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda.
1.5 p.m.—Studio music.
12.15 p.m.—Summary of "Sydney Morning Herald" news service and cables.
1.45 p.m.—Nugly wireless news.
12.25 p.m.—Studio music.
12.35 p.m.—Marching music for school children.
12.45 p.m.—Miss Enid D'Arcy, soprano: "Drift Down" (Ronald).
1.15 p.m.—Studio music.
1.3 p.m.—"Big Ben" Weather Intelligence.
1.5 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.25 p.m.—Studio music.
1.35 p.m.—Stock Exchange, second call.
1.50 p.m.—Marching music for school children.
1.45 p.m.—Miss Enid D'Arcy, soprano: "Ferry" (Byrnes).
1.45 p.m.—Studio music.
2 p.m.—"Big Ben" Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and announcements.
2.15 p.m.—A Recital arranged by Mr. Walter Therman (Professor of Organ and Piano).

- 2.30 p.m.—Marching music for school children.
2.40 p.m.—FROM FARMER'S TEA ROOMS: Miss Jeanette Rooney, contralto: "The Fuchsia Tree" (Author).
2.45 p.m.—Further items from the Recital arranged by Mr. Walter Therman.
4 p.m.—"Big Ben."
FROM FARMER'S TEA ROOMS: Miss May Craven, mezzo: "Laughing Brook" (Baskerville).
4.5 p.m.—FROM THE STUDIO: A Reading.
4.55 p.m.—FROM FARMER'S TEA ROOMS: Miss Jeanette Rooney, contralto: "Rose in the Bud" (Forster).
4.55 p.m.—FROM THE STUDIO: Musical Items.
4.55 p.m.—Miss Ethel Muller, contralto: "Vere" (Cockin).
4.55 p.m.—Studio music.
4.40 p.m.—FROM FARMER'S TEA ROOMS: Miss May Craven, mezzo: "The Gullion" (Arce).
4.45 p.m.—Derek Enghayze, third call.
4.45 p.m.—Studio music.
4.45 p.m.—Miss Ethel Muller, contralto: "Gladys" (Hil Handel).
4.54 p.m.—Studio music.
5 p.m.—"Big Ben" Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The Chinese of 2FC.
5.50 p.m.—The "Hells" Man" talks to the children.
5.50 p.m.—A Serial Story.
5.45 p.m.—Dinner music.
7 p.m.—"Big Ben." Last minute sporting information by the 2FC Racing Correspondent.
7.10 p.m.—Delroy's market reports (wool, wheat and stock).
7.15 p.m.—Fruit and vegetable markets.

- 7.25 p.m.—Weather and shipping intelligence. Stock Exchange.
7.35 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.45 p.m.—The programme announcements.
7.55 p.m.—Studio music.
8 p.m.—FROM THE THEATRE ROYAL, CASTLEBRIDGE STREET, SYDNEY: The First Act of the Musical Comedy in Three Acts: "MADAME POMPADOUR."
8.15 p.m.—MISS BEPIE DE VRIES (by permission of Messrs. J. C. Williamson, Ltd.).
ACT ONE, MUSICAL NUMBERS: Introduction and Ensemble, Arthur Signat and Chorus.
Scene, "Carnival Time" Frank Webster and Ladies.
Duet, "Love Me Now" Beppie de Vries and Vera Spavil.
Duet, "By the Light of the Moon" Beppie de Vries and Frank Webster.
Duet, "If I were King" Vera Spavil and Arthur Signat.
Finales Act, Full Company.
SCENE: "The Tavern of 'The Nine Muses'."
8 p.m.—"Big Ben."
FROM THE STUDIO: Mr. Cyril Monk, violinist: "Lomondyrie Air" (Sir. Monk).
9.5 p.m.—A talk on Bridge by Mr. Graham Kemp, No. 7, subjects "Deal and Assisting."
8.15 p.m.—Miss Mabel Batchelor, soprano.
10.10 p.m.—Mr. Charles Lawrence, entertainer: "I often wondered if my Mother knew" (Lawrence).
9.25 p.m.—Mr. W. F. Kay in a series of Unrehearsed Stage Happenings: Humorous and Tragic.
9.37 p.m.—FROM THE STUDIO: Mr. Cyril Monk, violinist: (a) "Andalusian Dance" (Morales), (b) "The Dove" (Homestead), (c) 2nd p.m.—Miss Mabel Batchelor, soprano.
9.50 p.m.—Mr. Harrison White, baritone soloist: (a) "Melody in F" (Rubinstein), (b) Fox Trot, "Tenderly."
9.51 p.m.—Mr. Charles Lawrence, entertainer: (a) "Locks" (Meyers), (b) "Wrong numbers" (Hoch), (c) 2nd p.m.—Mr. Cyril Monk, violinist: "Danza Fino" (Zoski).
10.8 p.m.—Miss Mabel Batchelor, soprano.
10.15 p.m.—Mr. Charles Lawrence, entertainer.
10.22 p.m.—Mr. Harrison White, baritone soloist: (a) Waltz, "At Home with the world" (Bosch), (b) Selection of Choruses (various).
10.30 p.m.—Late news and announcements.
10.40 p.m.—FROM THE WENTWORTH CAPE CHURCH HILL, SYDNEY: The new Wentworth Symbionic Dance Orchestra under the baton of Mr. Frederick Leighton.
10.44 p.m.—Celebrity recital: From the Studio.
10.47 p.m.—FROM THE WENTWORTH CAPE CHURCH HILL, SYDNEY: The new Wentworth Symbionic Dance Orchestra will play until 11.15 p.m.
11.15 p.m.—National Anthem.
Close down.

NEW SOUTH WALES "A" AND "E" CLASS BROADCASTING STATIONS.

- 2FC—Farmer's Broadcasting Station, Ltd., Sydney, wavelength 442 metres, power 3000 watts.
2BL—Broadcasters' Ltd., Sydney, wavelength 358 metres, power 1600 watts.
2CR—Theosophical Broadcasting Station, Ltd., Sydney, wavelength 315 metres, power 800 watts.
2KY—Traders and Labor Council, Sydney, wavelength 250 metres, power 1100 watts.
2UW—Otto Handel, Sydney, wavelength 257 metres, power 800 watts.
2MB—Barrack Bean, Barbegal, wavelength 273 metres, power 250 watts.
2EE—Electrical Utilities Supply Co., Sydney, wavelength 293 metres, power 250 watts.
2BE—Burgie Electric Co., Sydney, wavelength 318 metres, 100 watts.
2HL—H. A. Douglas, Newcastle, wavelength 268 metres, 100 watts.

2BL, SYDNEY.

Broadcaster's Ltd.
Wave Length, 353 Metres.

Friday.

DAY SESSION.

- 11 a.m.—G.P.O. Clock and chimes.
11.15 a.m.—Musical programme from the studio
11.30 a.m.—News from the "Sun."
11.58 a.m.—Talk on "Theater" by Miss Green
Various Broadcasters' Women's Sports Authority.
Special Notes— Replies to correspondents by Mrs. Jordan. Talks— How to get variety on the Menu" by Mrs. Jordan.
12 noon.—G.P.O. Clock and chimes.
12.15 p.m.—Special Ocean Forecast and weather Report.
12.3 p.m.—Musical programme from the studio
12.15 p.m.—Information—Mails and shipping and movements of various ships.
12.16 p.m.—Sydney Stock Exchange info.
12.18 p.m.—Beats in call by Wireless.
12.20 p.m.—Fruit Market Report.
12.23 p.m.—Vegetable Market Report.
12.25 p.m.—London Metal Market Report.
12.28 p.m.—Dairy and Farm Produce Market Report.
12.35 p.m.—Racing Resume.
12.38 p.m.—G.P.O. Clock and chimes.
12.45 p.m.—Musical programme from the studio.
12.49 p.m.—Sporting Information ("Sport").
12.55 Hilliers Instrumental Quartet—direction—Carol Callaghan.
1.00 p.m.—G.P.O. Clock and chimes.
1.01 p.m.—News from the "Sun."
1.04 p.m.—Musical programme from the studio
1.30 p.m.—Bygone times—Exchange Calls.
1.33 p.m.—News from the "Sun."
2 p.m.—G.P.O. Clock and chimes.
Racing Information broadcast immediately after each race by the courtesy of the Jockey Club.
2.1 p.m.—Talk to Children and special entertainment for children in hospital.
2.20 p.m.—News from the "Sun."
2.30 p.m.—G.P.O. Clock and chimes.
2.41 p.m.—Musical programme from the studio
2.41 p.m.—News from the "Sun."
2.45 p.m.—Musical programme from the studio
2.50 p.m.—G.P.O. Clock and chimes.
2.51 p.m.—News from the "Sun."
2.55 p.m.—Civil Service notice. Tete-a-tete with Miss de Courcy Director.
3.00 p.m.—G.P.O. Clock and chimes.
3.01 p.m.—News from the "Sun."
3.10 p.m.—Musical programme from the studio
3.10 p.m.—News from the "Sun."
4 p.m.—G.P.O. Clock and chimes.
4.1 p.m.—Golf Service Stores Trio
4.15 p.m.—Special Story.
4.30 p.m.—G.P.O. Clock and chimes.
4.31 p.m.—Musical programme from the studio
4.35 p.m.—News from the "Sun."
4.38 p.m.—Racing Resume.
4.42 p.m.—Panzon's Distributing Society's Fruit and Vegetable Market Report.
4.44 p.m.—Resume of night's programme.
4.56 p.m.—Announcements.
4.58 p.m.—Special Grass Parcelist.
5 p.m.—G.P.O. Clock and chimes. Close down.

EARLY EVENING SESSION.

- 5.15 p.m.—G.P.O. Clock and chimes.
5.40 p.m.—Dance Group and the Kiddies.
5.45 p.m.—Musical programme from the studio
SPECIAL COUNTRY SESSION.
7 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co's Report.
Weather Report and forecast by meteorologist.
Prof. Meteorologist.
Quartz Distributing Society's Fruit and Vegetable Market Report.
Stock Exchange Report.
Grain and Fodder Report ("Grain").
Dairy Produce Report ("Dairy").
7.15 p.m.—Country News from the "Sun."
7.30 p.m.—Talk by a member of the Metropolitan Soccer Association on "The Progress of Soccer" by Football Match.
7.40 p.m.—Talk on "Municipal Finance" by Mr. Connor, Park Superintendent City Council.
8 p.m.—G.P.O. Clock and chimes.
Broadcasters' Typical Chorus.
8.1 p.m.—Mr. Dick Matthews (light comedian).
8.15 p.m.—Mr. Andrew Betts (satirist).
8.17 p.m.—The Abad Judo (light comedy).

- 8.24 p.m.—Miss Ethel Friend (comtrahol).
8.31 p.m.—Broadcasters all-ports contest and on "Football."
8.40 p.m.—Mr. Stan Cartmel (comedian).
8.53 p.m.—Mr. Norman Wright (tenor).
9 p.m.—G.P.O. Clock and chimes.
Resume of following days programme weather report and forecast by meteorologist.
9.4 p.m.—Broadcasting Trio.
9.18 p.m.—Miss Mah Fotheringham (soprano).
9.25 p.m.—Mr. Eric Harrison (comedian).
9.30 p.m.—The sporting editor of the "Sun" will talk on the prospects of Saturday racing.
9.35 p.m.—Mr. Dick Matthews.
9.57 p.m.—Mr. Andrew Betts.
10.4 p.m.—The Abad Duo.
10.11 p.m.—Miss Ethel Friend.
10.18 p.m.—Broadcasters Trio.
10.25 p.m.—Mr. Stan Cartmel.
10.32 p.m.—Mr. Norman Wright.
10.39 p.m.—Miss Mah Fotheringham.
10.46 p.m.—Mr. Eric Harrison.
10.48 p.m.—Broadcasters Trio.
11 p.m.—G.P.O. Clock and chimes.
National Anthem.

2GB, SYDNEY

Theophical Broadcasting Service.
Wave Length, 316 Metres.

Friday.

MORNING SESSION.

- 5 a.m.—Music.
9.15 a.m.—Theoretic Talk.
9.18 a.m.—Music.
9.35 a.m.—Physiological Class.
9.45 a.m.—Music.
9.48 a.m.—Health and Diet.
10 a.m.—Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Music.
3.07 p.m.—Talk.
3.32 p.m.—Music.
4.17 p.m.—Talk.
4.27 p.m.—Music.
4.39 p.m.—Close down.

INTERSTATE "A" AND "B" CLASS BROADCASTING STATIONS.

- 2LO.—Broadcasting Company of Australia, Ltd., Melbourne, wavelength 371 metres, power 5000 watts.
4QQ.—Queensland Radio Service, Brisbane, wavelength 355 metres, power 2000 watts.
4CL.—Central Broadcasters' Ltd., Adelaide, wavelength 392 metres, power 5000 watts.
4WF.—Western Farmers' Ltd., Perth, wavelength 1250 metres, power 5000 watts.
7ZL.—Tasmanian Broadcasters, Ltd., Hobart, wavelength 345 metres, 2000 watts.
3AR.—Associated Radio Co., Ltd., Melbourne, wavelength 404 metres, power 1600 watts.
3DB.—Drumlich Business and Technical College, Melbourne, wavelength 355 metres, power 200 watts.
3UZ.—O. J. Nelson & Co., Melbourne, wavelength 319 metres, power 100 watts.
4GB.—Gold Radio Electric Service, Yoo-yooka, Queensland, wavelength 294 metres, power 100 watts.
3KA.—Sport Radio Broadcasting Station, Adelaide, wavelength 250 metres, power 1000 watts.
1DN.—3DN Pty., Ltd., Adelaide, wavelength 313 metres, 500 watts.

EVENING SESSION.

- 6.30 p.m.—Children's Service.
7 p.m.—Music.
7.15 p.m.—Talk.
7.30 p.m.—Music.
7.40 p.m.—Talk.
7.50 p.m.—Music.
8.00 p.m.—Songs by MADAM WEIDLE.
8.05 p.m.—Songs by MADAM WEIDLE.
1. "O' Mine, Lovely Mine" (Brisson).
2. "Valse" (Brisson).
8.15 p.m.—Address.
8.20 p.m.—Mr. Eric Harrison, illustrated by his compositions by Phyllis Campbell.
8.25 p.m.—Duets for two Voices, with Piano Accompaniment.
8.30 p.m.—STULLY, MONICA HERDER, ADA BROOK.
8.35 p.m.—Talk.
8.45 p.m.—Songs by MADAM WEIDLE.
1. "Silver in Your Hair."
2. "Lullaby" (Brisson).
8.55 p.m.—Instrumental Quartette.
DAN KULLA, MONICA HERDER, MURIELLE LANG, ADA BROOK.
8.55 p.m.—Solo by MURIELLE LANG, 1. "Air" (Bach).
2. "Scherez" (Van Góene).
9.05 p.m.—Talk.
9.10 p.m.—Close down.

3LO, MELBOURNE.

Broadcasting Co. of Aust.
Wave Length, 371 Metres.

Friday.

MIDDAY SESSION.

- "O' Mine, I hear! how thin and clear,
And thinner going, farther going,
O' sweet and far from child and care,
The horns of Eiland faintly glowing."
—Tennyson.
12 noon.—Time Signal British Official Wireless News from Rugby, Reuter's and the Australian Press Association Cables, "Argus" News Service, "Herald" News Service.
12.28 p.m.—DARCY TRIO—
ROSA PARCY
"Home Bunch" (Friend).
EILEEN MCCARTHY
"Mammy" Violin Solo (Kreider).
12.32 p.m.—STUDIO ORCHESTRA—
"Tom Davalo" (Haber).
12.40 p.m.—Stock Exchange information.
12.45 p.m.—MADAME LAMBERT, Soprano;
"All right one fox" (Dupie).
"Madrigal" (Channing).
12.50 p.m.—STUDIO ORCHESTRA—
"Wood Pines" (Hedley).
1 p.m.—AGNES FORTUNE, Flauto
"Water Wagtail" (Scott).
1.10 p.m.—Meteorological Information.
1.25 p.m.—TARMA THERIAN, "Cello"
"Bambou" (Gaspard).
1.22 p.m.—MADOLINE KNIGHT, Contralto
"Love is Divine" (Thompson).
"Madrigal" (Francis).
1.30 p.m.—STUDIO ORCHESTRA—
"Student Prince" (Humberg).
1.40 p.m.—CARLTON CHASE, Popular
"Nursi Comes Rolling Along."
"What? No Wombat."
1.45 p.m.—RICHARD CHUNG, Flauto
"Ballad" (Francis).
1.54 p.m.—STUDIO ORCHESTRA—
"Dance, Orlando" (Lubermeyer).
2 p.m.—Close down.
Results of Chinese Races will be given as they come to hand.
AFTERNOON SESSION.
2 p.m.—"The Builders" of the Builders' Memorial, Geelong Grammar School.
2.30 p.m.—STUDIO ORCHESTRA—
"Madrigal of Francis" (Martinez).
2.35 p.m.—JOE BRENNAN and ADA NEW-TOWN—
IDA NEWTON.
"Mamma! Mamma! Feminine Men."
JOE BRENNAN.
"Wants Something to Practice On."
2.45 p.m.—BERTHA JOHNSON, Violin—
A. L. O'Brien, (Hudson).

2:45 p.m.—STUDIO ORCHESTRA—
"Sanctuary of the Heart" (Kettley).
"Thinking" (Meyer).
EILEEN MCCARTHY, Voice Solo:
"Mazurka" (Myharski).
BIO DA PARY:
"Isn't he a fool" (Gerson).
7:10 p.m.—"Indian Love Lyric Medley" (Fin-
den).

8 p.m.—HARRY NORTH, Concertina:
"Popular Songs."

8:15 p.m.—RUSSELL CALLOW, Tenor:
"The Flower Song" (Garnet Bisset).
"I Hear You Calling Me" (Schreiner).

8:45 p.m.—STUDIO ORCHESTRA:
"Serenade de la Noche" (Bursac).

9:25 p.m.—RUSSELL CALLOW, Tenor:
"Just a Cottage Small" (Harley).
"My Pretty Jane" (Bishop).

9:30 p.m.—MRS M. CALLAWAY MAHOOD:
"The Study and Use of Colour"—III.
SUMMARY:—Experiments have shown
that colour has a powerful mental effect.
This talk will deal with:—The Curative
Use of Colour—Sedative and Stimulating
Colour—Temperature Reaction to Colour
The Use of Neutralised Colour—The
Value of Colour Suggestion in Decoration.

9:45 p.m.—"Herald" News service, Stock Ex-
change information.

9 p.m.—Close down.

EVENING SESSION.

1:25 p.m.—Answers to Letters and Birthday
Greetings.

1:50 p.m.—MADOLINE KNIGHT, Contralto:
"Four Pieces."
"Skinny Piercinnix."

4:17 p.m.—"BILLY HUNNY":
"A Story for the Little Ones."

4:45 p.m.—"CHRISTELLA," of "SUNDREAMS"
for Fourth Birthdays.

5:30 p.m.—Official report of Newmarket Stock
Sales. Number of Tracks Ordered for In-
coming Week's Sales.

6:45 p.m.—"Argus" and "Herald" News ser-
vices. Weather synopsis. Shipping move-
ments.

6:47 p.m.—Stock Exchange information.

6:57 p.m.—Fish Market reports by J. R. Bor-
rett, Ltd. Rabbit prices.

7:05 p.m.—Rivets reports.

7:18 p.m.—Market reports of Fruit, by the
Victoria Producers' Association, compiled
by the "Fruit World" exclusive to S.I.O.

NIGHT SESSION.

7:15 p.m.—Under the auspices of the Depart-
ment of Agriculture, MR. H. A. MULL-
LETT, Agricultural Superintendent, will
speak on:

"Wheat Growing—Seeding the Late Crop."

7:30 p.m.—STUDIO ORCHESTRA:
"Bety in Mayfair" (Blissman).

7:45 p.m.—JOB BRENNAN and ADA
NEWTON:
"Bright and Breezy."

7:50 p.m.—HARRY NORTH, English Concertina:
"I Traveller."

7:55 p.m.—ROYAL AUTOMOBILE CLUB
OF VICTORIA'S MESSAGE FOR TO-
DAY is for:

"MOTORISTS:—Always cultivate road
sense. More accidents are due to care-
lessness and thoughtlessness than to
ignorance. Use common sense to ensure
safe driving."

8 p.m.—COLLINGWOOD CITIZENS' BAND:
March "The New Colonial" (Hall).

8:10 p.m.—CARLTON CHAMPS. Popular Songs:
"Too Many Parties—Too Many Pals."
"Song of the Wanderer."

8:17 p.m.—STUDIO ORCHESTRA:
"Symphony"—Last Movement (Bart-
hok).

8:25 p.m.—MADAME LAMBERY, Soprano:
"Doin' in the Bay" (Lamaly).
"Man in my cap" (Mozart).

8:31 p.m.—COLLINGWOOD CITIZENS'
BAND:
Waltz "Thelma" (Hall).

8:44 p.m.—CELEBRITY FOUR:
Introduction Act IV. "La Boheme"
(Puccini).
HORACE WHITE—J. ALEXANDER
BROWNE:
Arr. "Softly Awakes My Heart" (Samson).
"GERTIE" HUTTON:
8:50 p.m.—MR. H. K. LOVE:
"Technicities."

9 p.m.—STUDIO ORCHESTRA:
"And Symphon"—Last Movement
(Beethoven).

9:10 p.m.—MR. H. H. OWEN will introduce
to you PROFESSOR K. L. KWONG,
M.B.A., and members of the Chinese
Chess Team will entertain you with some
Chinese Musical Items.

9:30 p.m.—COLLINGWOOD CITIZENS'
BAND:
March "The Peddler" (Alford).

9:35 p.m.—MR. C. J. WILLIAMS will discuss
"Tomorrow's Wedding."

9:40 p.m.—CELEBRITY FOUR:
Finales Act I—"Boheme" (Puccini).
SAFFO ARNAV—HORACE WHITE:
"No Star of Eve" (Wagner).

J. ALEXANDER BROWNE:
"Quartetto Rigoloso" (Verdi).

9:54 p.m.—Announcement. ROYAL AUTO-
MOBILE CLUB OF VICTORIA'S MES-
SAGE FOR TO-DAY is for:

PEDESTRIANS:—"Help the young and the
old men, whenever you can, but especially
when crossing a road. Never cut things
too fine when crossing the road."

9:55 p.m.—RUSSELL CALLOW, Tenor:
"The Dear Little Garden There" (Morrell).

10:2 p.m.—COLLINGWOOD CITIZENS'
BAND:
Selection, "Boracaro" (Sappe).

10:3 p.m.—"CAROLAN" (MR. H. W.
WOLFE, Sporting Editor of the "Argus"
and "Australasian," will speak on Satur-
day).

10:35 p.m.—CARLTON CHASE, Popular
Songs:
"If You Can't Tell the World"

10:45 p.m.—"Argus" and "Herald" News
service.

10:47 p.m.—COLLINGWOOD CITIZENS'
BAND:
"Foot, Mary Lee"

Duet, Cornet Folks—"Isa and Dol"

11 p.m.—OUR GREAT THOUGHT:
"We shall one day learn to supersede
politics by education. What we call
social reforms of slavery, war, and
intemperance is only medicating the
symptoms. We must begin higher up,
usually, in education."—Emerson.

NEW ZEALAND STATIONS:
1YA, Auckland, The Radio
Broadcasting Co. of New
Zealand, Ltd.
Power 500 Watts; Wave-
length, 420 Metres. Silent
Night, Monday.

2YK, Wellington, The Radio
Broadcasting Co. of New
Zealand, Ltd.
Power 120 Watts; Wave-
length, 295 Metres.

3YA, Christchurch, The Radio
Broadcasting Co. of New
Zealand, Ltd.
Power 500 Watts; Wave-
length, 400 Metres. Silent
Night, Thursday.

4YA, Dunedin, The Radio
Broadcasting Co. of New
Zealand, Ltd.
Power 750 Watts; Wave-
length, 435 Metres.

11:1 p.m.—JOE ARONSON AND JIM SVET-
LUBATING SYMPHONISTS:
"By the Waters of Minnesota" (Lourness)
(Puccini).
"Roachin' for the Moon" (Davis).
"That's My Girl" (Davis).
"I Wait a Period for Daddy" (Mont).
"Gotta Kiss" (Hicks).
"Hi, Ho, the Merry" (Brown).
"You Need Someone to Love" (Olson).
"Honeydew Moon" (Lawrence).
"Where Do You Work, Julie?" (Mark).
"Strolling in Paradise" (Akert).
"Meadow Lark" (Bourton).
"Speech" (Friend).
"Gotta Kiss" (Hicks)—Flauto Solo (Conley).
"It Made You Happy" (Bumblum).
"Mignonne" (Nehru).

"Upp Hands, Here Comes Charlie" (Meyer).
"While the Years Go Drifting By" (Kahn).
"Some Other Bird Whistled a Tune"
(Hiran).
"Moonlight on the Ganges" (Wallace).
11:40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres.

Friday

11 a.m.—Selections on the Brunswick Para-
traps.
11:30 a.m.—British Official Wireless News re-
ceived from Rugby Supermarine Station,
England.
Express train information.
"Age" News Bulletin exclusive to 3AR.

MIDDAY SESSION.

12 noon—Time Signal Chime from G.P.O.
Studio Barometer and Outdoor Thermometer
readings.
12:10 p.m.—Local Forecast.
Events of the day.
12:15 p.m.—Musical Selections from the Studio.
12:30 p.m.—Stock Exchange News.
12:40 p.m.—Music Selections from the Studio.
12:50 p.m.—Mail Notes.
Shipping Movements.
1 p.m.—Close down.

AFTERNOON SESSION.

2:30 p.m.—STUDIO ORCHESTRA (Direction,
Mr. Ronald Brerley):
Overture, "Humpty Dumpty" (Eric
Ferns).

2:45 p.m.—MR. ERNEST PETTIFER, chorist:
"Song without Words" (Mendelssohn).

2:45 p.m.—AYALE DANSONIANS (Direction,
Mr. Roy Charles):
"50 p.m.—MISS ETHEL BRIDABLEY, soprano:
"50 Pieces" (Macaulay).

3 p.m.—STUDIO ORCHESTRA:
"Three Woodland Dances" (Hofstad).
"Melodie" (Rachmaninoff).

3:25 p.m.—MISS MAIDIE RAMSAY, soprano:
"The Rosebird" (Archie).
"Second Menuet" (Beethoven).

3:35 p.m.—STUDIO ORCHESTRA:
"Three Irish Dances" (John Ansell).

3:45 p.m.—MR. HERBERT PETTIFER,
chorist:
"Waltzer Dance" (Lindholm).

3:40 p.m.—AYALE DANSONIANS (Direction,
Mr. Roy Charles):
1 p.m.—G. G. Close says "Four,"
Second Weather Forecast.

4:4 p.m.—MISS MAIDIE RAMSAY, soprano:
"The Market" (Milly Carrow).
"The Cuckoo" (Lisa Lehmann).

4:12 p.m.—STUDIO ORCHESTRA:
"First Suite from Carmen" (Bisni).
"Mshakopp" (Graf).

4:25 p.m.—AYALE DANSONIANS (Direction,
Mr. Roy Charles):
4:25 p.m.—Tonight's Amusement Guide.
4 p.m.—Close down.

CHILDREN'S SESSION: "THE FARM-
YARD FIVE."

EVENING SESSION.

- "HARMONY AND FUN"**
7.30 p.m.—"PHYSICAL FITNESS," by MR. GEORGE BEATTIE, Principal of the Beattie College of Physical Culture.
7.45 p.m.—TO-MORROW'S RACES. A specially written report and anticipation for tomorrow's meeting by "FIELD CLARRE," the Star's "Red Advertiser."
7.50 p.m.—Marguerite's Market Reports, News, etc.
8 p.m.—G.P.O. Clock says "Eight."
8.15 p.m.—MISS VIVA CLARRE, solo pianist: "Pastoral Impromptu" (Chopin); "Waltz on a Flat Op. 42" (Schubert).
8.30 p.m.—MISS LAMMIE HARTON, "The Ukulele Lady," in a series of quaint songs and popular hits.
8.45 p.m.—MR. J. HARCOURT-BAILEY, entertainer, in humorous vein: "At the Corner" (A. Lindsay Gordon); "The Girl on the Stairs" (Lawrence Harvey).
9.15 p.m.—MR. XAVER ROSENHAIN, Soloist: "Dance des Marionnettes" (Rohrer); "Introduction: Fantasia Pastorale Henderson."
9.45 p.m.—MR. LAURISTON BURNETT, English humorist: "I Want to go to Tomorrow" (Law Sully); "Comma"; "Tommy" (Aron).
9.55 p.m.—MISS FLORENCE GORDON, contralto: "Land of Hope and Glory" (Elgar); "If I might only come to You" (Souter).
10.15 p.m.—MR. ALFRED DAVEY, tenor: "There is a Flower that Blossoms" from "Mastaba" (Wallace); "I wished my lonely Caravan" (Herman Lohr).
10.30 p.m.—MISS VIVA CLARRE, solo pianist: "Butterfly" (Grieg); "Little Bird" (Grieg); "Dovecote" (Grieg).
10.45 p.m.—MISS BOVINA CHRISBOLM, Principal, The Daily Melbourne College of Domestic Economy, in a special solo.
11 p.m.—MISS LAMMIE HARTON, "The Ukulele Lady." More quaint songs with specially written arrangements.
11.25 p.m.—MR. J. HARCOURT BAILEY, entertainer: "The Revolution" (Francis Coppin); "Amulet" (Bourke); "Introduction: Fantasia Pastorale Henderson" (Doppler).
11.45 p.m.—MR. ALFRED DAVEY, tenor: "Imida," from "Arista" (Verdi); "I Heard You Go By" (Ward).
12.15 p.m.—MR. LAURISTON BURNETT, English humorist: "Coprocent" (G. Hunter); "Deaney's Donkey" (Hargreaves).
12.30 p.m.—MISS FLORENCE GORDON, contralto: "Sognal" (Schira); "Love's Old Sweet Song" (Molloy).
12.45 p.m.—G.P.O. Clock says "Ten."
12.55 p.m.—"The Star" News Bulletin.
13.15 p.m.—DANCE HOPPER, Legalia's Ballroom Orchestra (Dancing, Mr. Hurry Nangle).
13.45 p.m.—G.P.O. Clock says "Eleven."
The King.

4QG, BRISBANE

Queensland Radio Service.

Wave Length, 385 Metres.

Friday

MIDDAY SESSION.

- 1 p.m.**—Market reports; weather information; "The Daily Mail" and "The Daily Standard."
1.15 p.m.—FROM HOTEL CARLTON.
1.30 p.m.—Lunch hour music played by Hotel Carlton Symphony Orchestra.
1.45 p.m.—FROM THE GREAT AUSTRALIAN.
1.55 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

- FROM HOTEL CARLTON.**
2.30 p.m.—Afternoon tea music played by Hotel Carlton Symphony Orchestra.
FROM THE STUDIO:
2.45 p.m.—News services supplied by "The Telegraph."
3.30 p.m.—Close down.
EARLY EVENING SESSION.
6 p.m.—"Daily Standard" news; weather information; announcements.
6.30 p.m.—Bedtime stories by "The Sandman."
7 p.m.—Market reports; "5 o'clock reports."
7.30 p.m.—Weather news; announcements.
7.45 p.m.—Standard time signal.

NIGHT SESSION.

W.E.A. MUSIC CLASS.

The Workers' Educational Association Tutorial Classes in music are being held in the Reception Hall at 4QG this season, and are being conducted by Mr. George Sampson, F.R.C.D. (Medical Adviser, Department of Public Instruction), Lecturer in Music, Teachers' Training College.

The object of holding the classes at 4QG is to broadcast the lectures and music, and music available on a large audience; the educational matter placed before students.

The classes will extend over a period, and will be held each Friday night.

The usual lecture (which generally begins at 7.45 p.m.) will be dispensed with, and the classes will begin at that hour.

The tutor (Mr. Sampson) will lecture during the first portion of each evening, and chamber music will be played after each lecture.

The following artists will illustrate Mr. Sampson's lecture (tonight)—Miss Vada Jefferson (first violin); Miss Farrell (second violin); Miss Gwen de Graaf (viola); Miss Mary Jeffrey (cello); Miss Colledge (piano).

FROM THE RECEPTION HALL.
7.45 p.m.—W.E.A. tutorial music class.
8 p.m.—Week-end card information for motorists, officially supplied by the Royal Automobile Club of Queensland.

8.15 p.m.—"Overture, A. May Day" (Haydn Wood), the Studio Orchestra (conductor, Mr. A. R. Featherstone); "Lullaby, 'The Wolf' (Shield), Mr. L. Sherries; a thought for tonight (Walt H. Lister), 'The Majesty of Glory,' value, 'Hole' (Walden), the Studio Orchestra; soprano solo, selected, Signor Cori; monologue, 'The Shooting of Dan McGrew' (Service), Mr. H. Humphrey; soprano solo, 'Laugh and Sing' (Brammond), Miss Jill; Manners; Intermezzo "Fragrance of Spring" (Banders), the Studio Orchestra; baritone solo, "Little Town in Dutch Country Down" (Eamers), Mr. Z. Shridhan; monologue, "When Father Laid the Carpet on the Stairs," Mr. H. Humphrey; soprano solo, "Fairly Lullaby" (Quiller), Miss Jill; Manners; comic opera selection, "Jacintha" (Robyn), the Studio Orchestra.

FROM THE STUDIO:
10.15 p.m.—"The Daily Mail" news; weather news; football news.
Close down.

AFTERNOON SESSION.

- 1 p.m.**—G.P.O. chimes.
1.15 p.m.—Relay from the Maple Leaf Cafe—Orchestral selections.
1.45 p.m.—From the Studio—Recital on the "New Recording Stand" and the "Aristo tone" Harman.
2 p.m.—G.P.O. chimes.
2.15 p.m.—Relay from the Araxida Cafe—Orchestral selections.
2.30 p.m.—Market announcements.
2.45 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

- 6 p.m.**—G.P.O. chimes.
6.15 p.m.—"5 o'clock" music by the Covent Garden Restaurant Orchestra.
6.45 p.m.—Children's bedtime stories.
7.15 p.m.—Market reports.
7.35 p.m.—Sporting talk by "Metropolitan."
7.55 p.m.—Football talk by Mr. E. Johnston.
8 p.m.—G.P.O. chimes.
8.15 p.m.—Relay from Messrs. Malcolm Reid and Co.—Orchestral selections.
8.45 p.m.—Song, Miss Hilda Wheeler.
9.15 p.m.—Malcolm Reid's Orchestra.
9.45 p.m.—Song, Mr. Ken Hughes.
9.55 p.m.—Malcolm Reid's Orchestra.
10 p.m.—G.P.O. chimes.
10.15 p.m.—Weather report.
10.45 p.m.—Banjo and "The Wheel report."
11 p.m.—Winders Quartette.
11.15 p.m.—Recitation, Mr. G. Whittle.
11.35 p.m.—Song, Mr. Bert Zetta.
11.55 p.m.—Banjo and Messrs. J. Williams and G. Smith.
12 p.m.—Song, Mr. Syd. Morrell.
12.15 p.m.—Pianoforte solo.
12.30 p.m.—Song, Miss Hilda Wheeler.
12.45 p.m.—Banjo and Mr. G. Whittle.
12.55 p.m.—Winders Quartette.
1.30 p.m.—Inch's duo, Messrs. J. Williams and G. Smith.
1.45 p.m.—G.P.O. chimes.
1.55 p.m.—"Advertiser" news service.
1.55 p.m.—Song, Mr. Ken Hughes.
1.55 p.m.—Banjo duo, Messrs. J. Williams and G. Smith.
1.55 p.m.—Winders Quartette.
1.55 p.m.—Recitation, Mr. G. Whittle.
1.55 p.m.—Song, Mr. Syd. Morrell.
1.55 p.m.—Banjo duo, Messrs. J. Williams and G. Smith.
1.55 p.m.—Song, Mr. Norman Shepherd.
1.55 p.m.—Pianoforte solo.
2 p.m.—G.P.O. chimes and close down.

6WF, PERTH

Western Farmer's.

Wave Length, 1350 Metres.

Friday

- 12.30 p.m.**—Tune in.
12.35 p.m.—First Local News Bulletin.
Market Reports.
1.30 p.m.—Tune in.
1.35 p.m.—Musical programme.
1.40 p.m.—Close down.
1.45 p.m.—Tune in.
1.50 p.m.—Musical evening for the kiddies by Aunt Maryetta and Uncle Henry, Leslie, Percy, Duff and Rex.
1.55 p.m.—Stock and Share Intelligence.
Market Reports.
2.00 p.m.—News by courtesy of "The West Australian" Newsprint Coy.
2.05 p.m.—Talk.
2.10 p.m.—Signal from Perth Observatory.
2.15 p.m.—Weather note, supplied by the Meteorological Bureau of Western Australia.
POPULAR NIGHT.
8.2 p.m.—Musical programme, including sketches.

5CL, ADELAIDE

Central Broadcasters, Ltd.

Wave Length, 330 Metres.

Friday.

MORNING SESSION.

- 12 noon**—G.P.O. chimes.
12.15 p.m.—Recital on the "New Recording Stand" and the "Automatic Reproducer."
12.30 p.m.—"Advertiser" news service.
12.55 p.m.—Market reports.
1 p.m.—G.P.O. chimes.
1.1 p.m.—"Hole" from Adelaide Town Hall—Community singing.
1.2 p.m.—G.P.O. chimes and close down.

And Now!

a New

Emmco Transformer

It takes more than mere theory to build a transformer to satisfy the full requirements in modern radio.

It requires a specialised plant, specialist engineers, finest craftsmanship, and one hundred per cent. pure materials.

Emmco, with a yearly production of OVER 100,000 transformers—comprising, besides audio transformers, transformers for electricity meters, "B" battery eliminators, and for other purposes—ranks to-day as one of the world's largest manufacturers of transformers. It is the only industrial organisation in Australia specialising in transformers.

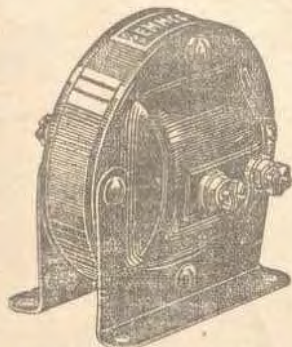
EVERY EMMCO TRANSFORMER IS GUARANTEED FOR ONE YEAR AGAINST BURNING OUT. There is no other make of transformer carrying such a guarantee, made possible by the fact that only the best quality materials go into Emmco transformers.

Many makes employing inferior grades of iron and poorly insulated wire give rise to parasitic noises in receivers.

GOOD RECEPTION DEMANDS THE BEST TRANSFORMERS. Get the best into your set. **GET EMMCO.**

At All Dealers.

Manufactured by
Electricity Meter Mfg. Co. Ltd.
 SYDNEY



EMMCO METAL CASE TRANSFORMER.
 No other Transformer has enjoyed the popularity and reputation of the EMMCO Metal Case Transformer. Thousands are in use all over Australia. Perfect insulation, handsome appearance and rugged construction. Ratios 2-1, 3½-1, 5-1 and 7½-1.

Now 17/6



EMMCO CAVALIER TRANSFORMER.
 Modified hobbler case ensures immunity from moisture. Terminals placed at base make wiring easy. Ratios 1-1, 3½-1, and 5-1.

Price 21/-



Emmco Midway Transformers. Shielded case. Especially recommended for set manufacturers.

Price 13/9

9 a.m.—Talk, "Glimpsing Notes" by Mr. E. A. Hughes, representing Messrs. Dawson and Harrison.
 9.50 p.m.—Late News Items by courtesy of "The Daily News" Newspaper Co.
 Ships within range announced.
 Weather Report and Forecast.
 10 p.m.—Health talk by Mr. H. E. Nation, of the Haxton School of Physical Culture.
 10.50 p.m.—Close down.

Saturday, June 25 2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m.—"Big Ben" and announcements.
 7.5 a.m.—Studio music.
 8.15 a.m.—Country Session: Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence and services.
 8.55 a.m.—Investment market, mining share market, metal quotations.
 9.25 a.m.—Wool sales, breadstuffs markets, Interstate markets, produce markets.
 9 a.m.—"Big Ben." Close down.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
 10.5 a.m.—Studio music.
 10.55 a.m.—"Sydney Morning Herald" news service.
 10.59 a.m.—Studio music.
 10.55 a.m.—Last minute racing information by the JFC Commentator.
 10.55 a.m.—Studio music.
 11 a.m.—"Big Ben."
 A.P.A. and Reuter's Cable Service.
 11.0 a.m.—A talk on Gambling by Mr. G. J. Lockley ("Redrup").
 11.30 a.m.—Studio music.
 11.55 a.m.—Close down.

MIDDAY AND AFTERNOON SESSION.

12 noon—"Big Ben."
 Stock Exchange, first call.
 12.30 p.m.—Studio music.
 12.50 p.m.—Rugby wireless news.
 (NOTE) Events of the Manlyfield Racing Club's Meeting will be described in the running by the JFC Racing Commentator.
 1 p.m.—"Big Ben." Weather intelligence.
 1.2 p.m.—"Evening News" midday news service.
 1.30 p.m.—Studio music.

NOTE FROM THE SYDNEY CRICKET BOARD: A full description of the Rugby Union Inter-State Football Match: QUEENSLAND versus NEW SOUTH WALES.

Details of the history of sporting events, essential items will be given by the Studio Commentator, Mr. Tom Fogarty, Novelist-Playwright. The new Wentworth Symphonic Dance Orchestra, under the baton of Mr. Frederick Lehmann, will be heard in popular numbers, throughout the afternoon.

4.30 p.m.—Remains of the day's sporting events.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

6.15 p.m.—The Chimes of 2FC.
 6.45 p.m.—The "Hello Man" talks to the children.
 6.50 p.m.—A Social Story for the older ones.
 6.55 p.m.—Dinner music.
 7 a.m.—"Big Ben." Late sporting information.
 7.15 p.m.—Weather intelligence.
 7.25 p.m.—"Evening News" late news service.
 7.50 p.m.—Studio music.

NIGHT SESSION.

8.45 p.m.—Programme announcements.
 9.0 p.m.—The 2FC Studio Dance Band, conductor, Mr. Eric Pearce.
 9 p.m.—"Big Ben."
FROM THE CRYSTAL PALACE GEORGE STREET, SYDNEY.
 Done by the Orchestra, under the baton of Mr. Harry Stone.

9.15 p.m.—FROM THE STUDIO:
 Mr. Harold Tollemache, baritone.

9.18 p.m.—Mr. Montgomery Stuart, entertainer.
 9.25 p.m.—FROM THE CRYSTAL PALACE THEATRE:
 Orchestral items.

9.30 p.m.—FROM THE STUDIO:
 Mr. Billy Haxton will give some hints on Modern Dancing.

9.50 p.m.—Mr. Harold Tollemache, baritone.
 9.55 p.m.—The 2FC Studio Dance Band, conductor, Mr. Eric Pearce.

9.55 p.m.—Mr. Montgomery Stuart, entertainer.
 10 p.m.—Miss Virginia Bassett, contralto.
 (a) "Spirit Song" (Haydn).
 (b) "The Leaves and the Wind" (Lena).

10.20 p.m.—The 2FC Studio Dance Band.
 10.25 p.m.—Miss Margaret James, soprano.
 10.32 p.m.—Mr. Harold Tollemache, baritone.
 10.40 p.m.—Mr. Montgomery Stuart, entertainer.

10.40 p.m.—The 2FC Studio Dance Band, conductor, Mr. Eric Pearce.
 10.45 p.m.—Miss Virginia Bassett, contralto.
 ("Foggy").

10.52 p.m.—Mr. Ad Crev, Scotch comedian.
 10.55 p.m.—"Big Ben."

FROM THE CRYSTAL PALACE THEATRE, GEORGE STREET, SYDNEY.
 Done by the Orchestra, conducted by Mr. Harry Stone.

10.10 p.m.—Miss Margaret James, soprano.
 10.15 p.m.—The JFC Studio Dance Band.
 10.25 p.m.—Mr. Ad Crev, Scotch comedian.
 10.30 p.m.—Miss Virginia Bassett, contralto.
 ("The Shepherd's Song" (Haydn)).

10.35 p.m.—The 2FC Studio Dance Band.
 10.40 p.m.—Miss Margaret James, soprano.
 10.45 p.m.—The 2FC Studio Dance Band.
 10.55 p.m.—Mr. Ad Crev, Scotch comedian.
 11 p.m.—"Big Ben."

FROM THE WENTWORTH CAFE, CHURCH HILL, WENTWORTH CAVE.
 The new Wentworth Symphonic Dance Orchestra, conducted by Mr. Frederick Lehmann.

11.10 p.m.—Late news and announcements.
 11.15 p.m.—The Wentworth Symphonic Dance Orchestra in popular numbers until 11.40 p.m.

11.45 p.m.—National Anthem.
 Close down.

2BL, SYDNEY

Saturday.

DAY SESSION.

11.0 a.m.—G.P.O. Clock and Chimes.
 11.1 a.m.—Musical Programme from the Studio.

11.2 a.m.—News from the "Sun."
 11.20 a.m.— Replies to correspondents by Mrs. Jordan. Talk on "Simple Cooking for Children" by Mrs. Jordan.

11.30 noon—G.P.O. Clock and Chimes.
 11.35 a.m.—Special Ocean Forecast and Weather Report.

12.3 p.m.—Musical Programme from the Studio.
 12.35 p.m.—News from the "Sun."
 12.45 p.m.—Musical Programme from the Studio.

1.15 p.m.—G.P.O. Clock and Chimes.
 1.25 p.m.—News from the "Sun."
 1.35 p.m.—Musical Programme from the Studio.

2.1 p.m.—G.P.O. Clock and Chimes.
 2.15 p.m.—Musical Programme from the Studio.

3.15 p.m.—Talk on Sporting and Athletic History for the day: Lacrosse, Hockey, Tennis, Football, Soccer, Rugby. During the afternoon, sporting information will be broadcasted by courtesy of the "Sun" Newspaper, interspersed with Musical Programme from the Studio.

4.05 p.m.—Remain of Night's Programme.
 4.3 p.m.—G.P.O. Clock and Chimes.
 4.5 p.m.—Late Racing Results.
 5.0 p.m.—Close Down.

EARLY EVENING SESSION.

6.45 p.m.—G.P.O. Clock and Chimes.
 6.40 p.m.—Uncle George and the Studio.

7.15 p.m.—Musical Programme from the Studio.
 7.35 p.m.—Remain of all Sporting Information, including Racing, Horse, Tennis, Athletics, by courtesy of the "Sun."

7.50 p.m.—Country News from the "Sun."
 8.0 p.m.—G.P.O. Clock and Chimes. Round-up of the day.

8.15 p.m.—Sporting Programme with Musical Items by the following Artists: Bertha Waters (Soprano), Edna Slater (Contralto), Nellie M. Ferguson (Soprano of the Piano), Florence McIntyre (Violoncello), and Broad-sworder Trio.

10.15 p.m.—The Ambassadors' Dance Band programme from the Ambassadors. During intervals between dances, "Sun" News will be broadcast.

10.45 p.m.—G.P.O. Clock and Chimes.
 10.55 p.m.—Close down.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

11 a.m.—STUDIO ORCHESTRA:
 "La Ronde en Sals" (Gounod).
 11.10 a.m.—D'ARCY TRIO:
 BOBA D'ARCY:
 "Bird's Eye View" (Donaldson).
 MIRTHIL REEVE'S, Piano:
 "Valse Parlozienne" (Les Roberts).
 THO—"Jack Madley".
 "The Merry-go-round That Stole Your Kiss".
 11.20 a.m.—MADOLINE KNIGHT, Piano:
 "The Dancing Doll" (Purcell).
 11.30 a.m.—MADOLINE KNIGHT, contralto:
 "Sally King" (Hill) (Irish).
 "Goodbye Darling" (Gardner).
 11.45 a.m.—STUDIO ORCHESTRA:
 "Classics" (Solo).
 11.50 a.m.—MR. BRESNAN AND IDA
 NEWMAN, Musicians.
 12 noon—Time Signal, British Official Wireless news from Rugby, Reuter's and The Australian Press Association Cables.
 "Avery" news service.

12.30 p.m.—STUDIO ORCHESTRA:
 "Dresden Sketches" (Camarcow-White).
 12.40 p.m.—HARRY NORTH, Contralto:
 "Merry".
 12.50 p.m.—Ruth Kershaw, Entertainment.
 12.55 a.m.—STUDIO ORCHESTRA:
 "Classical King" (Prinz).
 1.00 p.m.—MADOLINE KNIGHT, Contralto:
 "Harvester's Night Song".
 "Silver Threads Amongst the Gold".
 1.10 p.m.—DOROTHY ROXBURGH, Viola:
 "Lullaby" (Victrola).
 1.15 p.m.—STUDIO ORCHESTRA:
 "Fante Suite Moderne" (Rasse).
 1.25 p.m.—Meteorological information, Forecast for Victoria, Tasmania, South Australia and New South Wales, Ocean Forecast, River Forecasts.
 1.30 p.m.—RUSSELL CALLOW, Tenor:
 "John Snow Have Told Me" (O'Hara).
 "A Song of Hope" (Ward).
 1.35 p.m.—WALTER SMITH, Cornet:
 "The Last of the Summer" (Blond).
 1.40 p.m.—STUDIO ORCHESTRA:
 "Jazz Suite" (Laba).
 1.45 p.m.—RUSSELL CALLOW, Tenor:
 "28 Days" (Haydn).
 "I Passed by Your Window" (Brake).
 1.50 a.m.—STUDIO ORCHESTRA:
 "Unforgettable Hours" (Ansell).
 2.00 p.m.—MADOLINE KNIGHT, Contralto:
 "Blossom Valley Races, by "Market" of the "Sporting Globe".
 2.10 p.m.—Close down.
 2.20 p.m.—Forecast of Chance Handicap, Meehan Valley Races, by "Market" of the "Sporting Globe".
 2.30 p.m.—Close down.
 2.35 p.m.—FOOTBALL, ST. SILDAS, NORTH MELBOURNE, described by Mr. Mac McGregor, from St. Rilda.
 2.50 p.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Description of ST. IVANCOORH STERILE, Meehan Valley Races, by "Market" of the "Sporting Globe."

Bright Star

SUPREME IN EVERY TEST

A. B. & C. Batteries



The Greatest Service and Economy comes from using Batteries of unequalled quality.

Bright Star Long Lyfe Batteries are necessary to perform this duty.

It will pay you in convenience and reliability as well as in pounds, shillings and pence saved to use these remarkable batteries. The reason for their superiority is not hard to find. No other battery is built like them. They are of a patent construction, ably living up to their name, Long Lyfe.

INTERNATIONAL RADIO CO. LTD.
200 Castlereagh Street, Sydney

12.5 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS:
 "The Cat" (Kahn).
 "Saphire" (Miller).
 "Hello Little Girl of My Dreams" (Berke).
 "The Original Black Bottom" (Henderson).
 "I Don't Know" (Herd).
 1.29 p.m.—LEAGUE FOOTBALL, ST. KILDA v. NORTH MELBOURNE—Quarter Time. Description by Mr. Rod McGregor from St. Kilda.
 1.52 p.m.—Description of Deep Creek Handicap, Moonee Valley Races, by "Muskie," of the "Sporting Globe."
 2.35 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS:
 "Let's Be Merry Feet" (Leslie).
 "Clanking Up the Ladder of Love," (Brennefuss) (Harry).
 "Camille" (Sherman).
 "I'm on My Way Home" (Berlin).
 "The Men We Are Quartered" (Campbell).
 "Thine Moon" (Nausbaum).
 "Mary Ann" (Gardner).
 "Baby Face" (Aist).
 4 p.m.—LEAGUE FOOTBALL, ST. KILDA v. NORTH MELBOURNE—Half-time. Description by Mr. Rod McGregor, from St. Kilda.
 4.10 p.m.—Description of BARNE JIMMERS' FLAT RACE, Moonee Valley Races, by "Muskie," of the "Sporting Globe."
 4.15 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS:
 "Sam, the Old Azerbaijan Man" (Donaldson).
 "Somebody's Lonely" (Davis).
 "If You See Sally" (Kahn).
 "You've Got a Bird's-Eye View" (Donaldson).
 "Hello, Bluebird" (Friend).
 "What's the Use of Crying?" (Fuchsstein).
 4.55 p.m.—LEAGUE FOOTBALL, ST. KILDA v. NORTH MELBOURNE—Three-quarter time. Description by Mr. Rod McGregor, from St. Kilda.
 4.58 p.m.—Description of GLENVALE WESTER, Moonee Valley Races, by "Muskie," of the "Sporting Globe."
 5 p.m.—"Herald" news service. Stock Exchange information.
 5 p.m.—LEAGUE FOOTBALL, ST. KILDA v. NORTH MELBOURNE—Final halves, by Mr. Rod McGregor, from St. Kilda.
 5.10 p.m.—Close down.

EVENING SESSION.

"There it sweet music here that softer lies Than petals from blown pines on the grass. Made that gentler on the water lily Than tired eyelids upon tired eyes."
 —Tennyson.
 7.55 p.m.—Sporting Results.
 8.10 p.m.—Letters to Listeners and Birthday Greetings.
 8.25 p.m.—"LITTLE MISS KOOKABURRA," A Special Little story about Scourching Bright and Beautiful as Cheer All Our Friends in the Hospital.
 8.5 p.m.—MARION LIGHTFOOT, Soprano:
 "The Little Teddy Bear."
 "Fairies at the Bottom of Our Garden."
 8.15 p.m.—CAPT. DONALD MACLEAN:
 "Mary Ann, the English Woman Pirate."
 "135 p.m.—"Arcus" and "Herald" news service. Weather Synoptic. Shipping movements.
 8.47 p.m.—Stock Exchange information.
 8.52 p.m.—Fish Market Reports by J. H. Bennett, Ltd., Fishery reports.
 8.55 p.m.—River reports.
 8.55 p.m.—Market Reports by the Victorian Producers' Co-operative Company, Ltd., Newcastle. News sales. Woolley, Grain. Hay, Sticks, Jams, Dairy Produce, Potatoes and Oatmeal.
 9 p.m.—Market reports of Fruit by the Victorian Fruitgrowers' Association, compiled by "The Fruit World," exclusive to B.O.

NIGHT SESSION.

"Turn thy ear to hear how sweet music flows."
 —Apollonius of Tyana.
 9.18 p.m.—MR. CHARLES NUTTALL:
 "The Blue Bird."
 9.30 p.m.—MR. F. CHAPMAN, A.L.S. (Nat. Mus.):
 "Differed Kings of Mocha."
 9.45 p.m.—MR. J. A. LEACH:
 "Halse and Philadelphia."

9 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS—
 MOTORISTS—Don't drive fast past schools through populous places. Pay attention to road warning signs; obey police signals.
 9.1 p.m.—BRUNSWICK CITY BAND, Conductor, Mr. Hugh Jones:
 Selection, "Minstrel Melodies" (Horsner).
 9.10 p.m.—MADAME LAMBERT, Soprano:
 "Air de Solome" (Massenet).
 "Les Châtes de France" (Franck).
 9.17 p.m.—EDOUARD LAMBERT, Violin:
 "La Folia" (Corelli).
 "Romance" (Wisevalk).
 9.27 p.m.—MRS. LOET SMITH will speak on "The Work of the Women's Animal Welfare Auxiliary."
 9.52 p.m.—BRUNSWICK CITY BAND:
 March, "Honour Bright" (Went).
 Fantasia, "Jupiter" (Greenwood).
 9.42 p.m.—A SPECIAL PROGRAMME HAS BEEN ARRANGED:
 10.15 p.m.—BRUNSWICK CITY BAND:
 Waltz, "Grace and Beauty" (Greenwood).
 10.22 p.m.—Announcements. Late Sporting News.
 10.42 p.m.—MADAME LAMBERT, Soprano:
 Selection.
 10.49 p.m.—BRUNSWICK CITY BAND:
 March, "An English Carland" (Rimmer).
 March, "The Saracen" (Rimmer).
 10.52 p.m.—EDOUARD LAMBERT, Violin:
 "Concerto No. 4" (Vivace tempo).
 11 p.m.—OUR GREAT THOUGHT:
 "A man who finds no satisfaction in himself seeks for it vain elsewhere."
 —Rothefoucauld.
 11.3 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS:
 "Every Little Thing" (Spencer).
 "You've Got to Black Shuffle" (Sparks).
 "You Ain't No Maybe in My Baby's Eyes" (Kahn).
 "I've Got the Gilt" (Donaldson).
 "Kentucky Lullaby" (Miller).
 "I'm Goin' For You" (Hickaway).
 "The Village Blacksmith Owns the Village Now" (Moore).
 "Planting" (Burg).
 "The Sun, Hang out the Moon" (Woods).
 "I've Been Wasting My Dreams Over You" (O'Hagan).
 "My Toy, Ha, Ha, Ho, Ho" (Brown).
 "In a Little Spanish Town" (Waros).
 "Jollifying" (West).
 "Half a Moon is Better than No Moon" (Hermold).
 "To-night's My Night with Baby" (Meyer).
 "Durgundy" (Malle).
 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Saturday, MORNING SESSION.

11 a.m.—G.P.O. Clock says "Seven."
 11.1 a.m.—Brunswick Panopticon Concert.
 11.30 a.m.—British official wireless from Rugby Super Wireless Station, England. Express train information. "The Age" News Bulletin (exclusive to 3AR).

MIDDAY SESSION.

12 noon—G.P.O. Clock says "Twelve." First weather forecast. "The Age" Sport Circular.
 12.1 p.m.—Studio concert.
 12.30 p.m.—"The Age" Stock Exchange reports. Market reports. Foreign Exchanges of the world the courtesy of The Cook and Sons. Mail notices. Shipping movements.
 1 p.m.—Close down.

MATINEE SESSION.

ORCHESTRAL CONCERT.
 Sport: Moonee Valley Race.
 2 p.m.—Windara Kurlie, 5 notes.
 2.20 p.m.—Chandos Handicap, 4 furlongs.
 2.35 p.m.—Studio Orchestra (Director Ronald Havelry).

2.40 p.m.—Quartette Party, The Lieder Four:
 "Calm in the Sea" (Puell).
 2.45 p.m.—Studio Orchestra:
 Selections Croton Valseport (Franz Lehar).
 3 a.m.—Travellers' Banquet, 3 miles & change.
 3 p.m.—Quartette Party, The Lieder Four:
 "Aeolian Little Kate" (Muir).
 3.15 p.m.—Studio Orchestra:
 1.22 p.m.—"Cello Solo, Ronald Havelry."
 "La Traviata" (Kretzler).
 3.23 p.m.—Studio Orchestra:
 3.30 p.m.—Deer Creek Handicap, 1 mile.
 3.35 p.m.—Quartette Party, The Lieder Four:
 "When Evening's Twilight" (Houston).
 3.40 p.m.—Studio Orchestra:
 3.45 p.m.—Viola Solo, Herbert Pettifor:
 "Palomina Caprice" (Newland).
 3.47 p.m.—Studio Orchestra:
 3.50 p.m.—Quartette Party, The Lieder Four:
 "Dawn Ye Coy Ma Honey" (Nall).
 3 p.m.—G.P.O. Clock says "Four."
 4.1 p.m.—Studio Orchestra:
 4.10 p.m.—Marnie Jumper's Flat, 1 mile & 2 furlongs.
 4.15 p.m.—Quartette Party, The Lieder Four:
 "La Traviata" (Kretzler).
 4.20 p.m.—Studio Orchestra:
 4.25 p.m.—Quartette Party, The Lieder Four:
 "Soldier's Farewell" (Brehms).
 4.30 p.m.—Studio Orchestra:
 4.35 p.m.—Studio Orchestra, 1 mile.
 4.35 p.m.—"To-night" Amusement Guide.
 5 p.m.—Close down.

CHILDREN'S SESSION.

"Uncle Mac's Entertainment."

EVENING SESSION.

CAMP FIRE CONCERT, DANCE.
 Special arrangement of Mr. George English and his Concert Company in addition to 3AR's second Camp Fire.
 7.45 p.m.—British official wireless. Today's sports results. Local news.
 8 p.m.—G.P.O. Clock says "Eight."
 8.1 p.m.—Doris, Philip Jones and Dan Hardy:
 "Two Beggars" (Louie Wilson).
 "The Moon Hath Risen" (Doncini).
 8.5 p.m.—Songs (Soprano), Violet Holman:
 "Robin's Song" (White).
 "Three Green Bonnets" (D'Hardelle).
 8.15 p.m.—Comedy, Ronald Nelson, the favourite young Australian comedian in original humor.
 8.25 p.m.—Songs (Soprano), Charles Wellard:
 "The Curfew" (Mark Gould).
 "Up from Somerset" (Sanderson).
 8.25 p.m.—Songs (Contralto), Marion Doudman:
 "Vivacita" (Del Aquil).
 "Micaela's Song" from Carmen (Rietz).
 8.35 p.m.—Round the Camp Fire Narrator, Mr. V. Upton Brown.
 8.40 p.m.—Songs (Soprano), Mel. Paine:
 "Dancer Song" (from Carmen (Rietz)).
 "Linden Lea" (Arr. Vaughan Williams).
 8.55 p.m.—Songs (Alto), Vera Bradley:
 "Dainty Boy" (Old Irish).
 9.05 p.m.—Entertainer, Harry Rohmer, conceals musical efforts from novel instruments.
 9.10 p.m.—Ariz (Baritone), Dan Hardy:
 "Even Bravest Hearts" from Faust, (Gounod).
 Selected (by request).
 9.20 p.m.—Song (Trio), Bert Mitchell:
 "She is Far From the Land" (Lambert).
 9.44 p.m.—Comedy, Ronald Nelson, Australia's zany comedian in more original fun.
 9.51 p.m.—Song (Contralto), Marion Doudman:
 "Black Bird's Song" (Cyril Scott).
 9.54 p.m.—Songs (Soprano), Mel. Paine:
 "Hamper Common."
 "The Star" (Rogers).
 10 p.m.—G.P.O. Clock says "Ten."
 10.1 p.m.—Doris's Ballroom Orchestra (Director): Harry Nangle).
 11 p.m.—G.P.O. Clock says "Eleven."
 GOD SAVE THE KING.

THE WONDERFUL P.M. FILAMENT



THE MASTER FILAMENT

UNBREAKABLE

The Mullard P.M. Filament, huge in proportions and gigantic in emission surface . . . tough and always ductile so that it can be tied in knots . . . proved by the British National Physical Laboratory Test to be constant and lasting . . . gives majestic volume free from microphonic noise . . . too economical even to glow . . . The Filament in all Mullard P.M. Valves—the valves which serve you best.

Obtainable from every dealer
in Australia

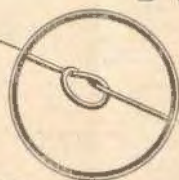
SAY P.M. AND YOU SAY PURE MUSIC

Mullard

THE MASTER VALVE

ARKR 11A

ADVT. THE MULLARD WIRELESS SERVICE CO., LTD., MULLARD HOUSE, DENMARK STREET, LONDON, W.C.2, ENG.



For 2-cell accumulators

P.M.1 H.F. 0.1 amp. 13 1/2
P.M.1 L.F. 0.1 amp. 13/0
P.M.1 A. (Resist. Cap.) 0.1 amp. 13/0
P.M.2 (Power) 0.2 amp. 13/0

For 4-cell accumulators or 2 dry cells

P.M.3 (General Purpose) 0.1 amp. 13/0
P.M.3 A. (Resist. Cap.) 0.1 amp. 13/0
P.M.4 (Power) 0.2 amp. 13/0

For 6-cell accumulators or 4 dry cells

P.M.5 X (General Purpose) 0.1 amp. 13/0
P.M.5B (Resist. Cap.) 0.1 amp. 13/0
P.M.6 (Power) 0.2 amp. 13/0

Super power valves (4 cell L.F. 500)

P.M.251 1 volt 0.25 amp. 15/
P.M.250 6 volts 0.25 amp. 15/

4QG, BRISBANE

Saturday.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

CHURCH SERVICE.

The regular service will be relayed from the Seventh Day Adventist Church at Burwood.
 2.30 p.m.—Church Service.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Belltime strains by Uncle Ben and Uncle Jim.

7.15 p.m.—Raiding results.
 7.20 p.m.—Today's football play described.
 7.30 p.m.—Sailing notes by Mr. F. Smith.

NIGHT SESSION.

VIOLIN RECITAL.

To-night's programme will comprise a vocal and instrumental recital relayed from the Studio of Mrs. Lilla Amadio Pares of The Hall of the Muses, Little Roma Street.

8 p.m.—Pianetto solo, "Beverly" (for left hand only) (Wolff); "The Gertrude Alexander" song, selected, Madam Bullock, violin duo, "O Solo Mio," Miss Pauline Goodbush and Lilla A. Pares; clarinet solo, selected, Mr. Phillip O'Brien; Henry's violin solo, "The Hungarian Dance" (Brahms); Josephine, Miss Marion Wilson; song, "Mary of Anjou," Mr. B. Pollock; band selection, Mr. E. Norton; song, "The Garden," Mrs. A. Stephens; violin duo, "Missa in G" (Borlino), Mr. Tom Winston and Lilla Amadio Pares; humorous interlude, vocal and instrumental solo, selected, Mr. Ken MacKinnon and Mrs. Lilla Amadio Pares; recitation, "Duke," Mr. J. L. Traill; xylophone duo, selected, Miss Neilson and Mr. English; violin duo, "One Whirling Hour" (Dvorak), Mrs. Scott and Lilla Amadio Pares; song, selected, Madam Bullock; violin solo, "Spanish Dance—Zaharato" (Mazas); Lilla Amadio Pares; song, "The Cup" (Purcell); Professor Elgie; violin duo, "Berenice de Jacobin" (Ginard), Miss Neilson and Lilla Amadio Pares; vocal solo, "Fidelity" (Hartman), Mr. Curdell; joint selection, Mrs. Stephens.

FROM THE STUDIO.
 10 p.m.—"The Daily Mail" news; weather news.
 Close down.

5CL, ADELAIDE.

Saturday.

10 a.m.—G.P.O. chimes.
 11 a.m.—Recitals on the "New Reproducing Sona" and the "Automatic Reproducer."
 11.30 a.m.—"Advertiser" news service.
 11.45 a.m.—Musical programme.
 12 noon.—G.P.O. chimes and close down.

AFTERNOON SESSION.

12.45 a.m.—From the Cheltenham racecourse.—A running description of the Tattersall's Club meeting, interspersed with interesting sporting and football results, recitals on the "New Reproducing Sona" and the "Automatic."
 2.30 p.m.—Close down.

EVENING SESSION.

6 p.m.—G.P.O. chimes.
 7.15 p.m.—Relay from Crown Garden Restaurant—Orchestra selection.
 8.15 p.m.—Theatre stories.
 9.30 p.m.—Market reports by Messrs. B. C. Ward and Co., A. E. Hall and Co., A. W. Kinchard and Co., Dalrymple and Co., S.W. Brisbane's Co., Union, Taylor Bros.

3.40 p.m.—Sporting results.
 7 p.m.—G.P.O. chimes.
 8.1 p.m.—Song, Mr. A. Bartie.
 8.6 p.m.—Mouth organ solo, Mr. K. Wood.
 8.10 p.m.—Hubert Carmichael's Dance Orchestra.
 8.30 p.m.—Song, Miss Laurel Kempson.
 8.34 p.m.—Violin solo, Mr. Gilbert Casey.
 8.59 p.m.—Song, Miss Maud Freeman.
 9.14 p.m.—Hubert Carmichael's Dance Orchestra.
 9.30 p.m.—G.P.O. chimes.
 9.41 p.m.—Diagnosis a short report.
 9.8 p.m.—Song, Mr. Arthur Bartie.
 9.7 p.m.—Instrumental number, Mr. Jack Leithall.
 9.11 p.m.—Song, Miss Laurel Kempson.
 9.18 p.m.—Hubert Carmichael's Dance Orchestra.
 9.35 p.m.—Violin solo, Mr. Gilbert Casey.
 9.39 p.m.—Song, Miss Maud Freeman.
 9.48 p.m.—Mouth organ solo, Mr. E. Wood.
 9.49 p.m.—G.P.O. chimes.
 10.1 p.m.—Sporting results.
 10.15 p.m.—Hubert Carmichael's Dance Orchestra.
 10.30 p.m.—Song, Mr. Arthur Bartie.
 10.33 p.m.—Instrumental number, Mr. Jack Leithall.
 10.41 p.m.—Song, Miss Laurel Kempson.
 10.49 p.m.—Violin solo, Mr. Gilbert Casey.
 10.44 p.m.—Hubert Carmichael's Dance Orchestra.
 11 p.m.—G.P.O. chimes and close down.
 (Programme complete for week ending)

6WF, PERTH.

Saturday

12 noon.—Tune in.
 12.5 p.m.—Musical programme, including pianoforte selections by MISS SYLVEN WILLES, A.R.C.M.
 13.41 p.m.—First Local News Bulletin, Marjot Hepburn.
 1.1 p.m.—Time signal from Perth Observatory.
 2.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
 2.2 p.m.—Close down.
 4.45 p.m.—Tune in.
 5.50 p.m.—Uncles Percy and Ray with the Radio Band.
 7.30 p.m.—Market Reports.
 8.45 a.m.—News by courtesy of "The West Australian" Newspaper Co.
 9.42 p.m.—Talk, "Brach Combings" (No. 2), by Mr. F. LAWSON-WHITLOCK.
 9.5 p.m.—Time Signal from Perth Observatory.
 9.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.

CONCERT FROM THE STUDIO.

8.5 p.m.—Musical programme, including recitals.
 Dance music by Ron Meys and his Band, relayed from the Greenway Dance Hall.
 10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.
 Ships within range announcement.
 Weather Report and Forecast.
 10.30 p.m.—Close down.

Sunday, June 26 2FC, SYDNEY

Studio Announcer—MR. A. E. COCHRANK
 MORNING SESSION.
 10.55 a.m.—Programme Announcements.
 11.9 a.m.—From St. Andrew's Cathedral, George Street, Sydney. The Morning Service conducted by the Rev. Dean Talbot. In connection with the Annual Service of St. John's Ambulance.
 12.35 p.m.—From the Studio, News Session.
 12.36 p.m.—Close Down.

AFTERNOON SESSION.

1.30 p.m.—Programme Announcements.
 2.15 p.m.—"Big Ben," From the Sydney Town Hall. A Sacred and Musical Programme arranged by Mr. John Mansfield, assisted by the following soloists:—
 Mr. Henry Penn (Solo Pianist).
 Mr. Cyril Monk (Solo Violinist), and others.
 1. First Song for Mixed Voices.
 2. "The Great Day" (Handel).
 3. "Wagon Spring Song" (Kreutzer).
 4. Mr. Jack James.
 5. "Ella giammai m'amore" (Vivaldi).
 6. Mr. John Mansfield, Basses. (Accompanied by Mr. Henry Penn).
 7. Song "Bing, Sweet Bird" (Vanz).
 8. Miss Ellen, Soprano.
 9. "The Chase" (Kreutzer).
 10. Piano Duet, "Sonata in D" (Mozart). (Allison, Adelaide, Perth).
 11. Miss Eugenie Estate and Mr. John Mansfield.
 12. Air, "Someday an Alarm" (Handel).
 13. Mr. Leonard Green.
 14. Duet, "La Voce Prendi" (Mozart).
 15. Miss Ellen Kelly and Mr. John Mansfield.
 16. Song, "The Time of Grace" (Donner).
 17. Mr. William Yarrow.
 18. Recitation, "Then Shall the Eyes of the Blind" (Handel).
 19. Air—"He Shall Feed His Flock."
 20. Miss Emma Ellen.
 21. Song, "The First Palm Sunday" (Carter).
 22. Mr. John Mansfield, Basses.
 23. Emancipated, Mr. Henry Penn.
 24. p.m.—"Big Ben," From the Manly Beach Band Rotunda. Items by the Manly Municipal Band, conducted by Mr. J. Fehsenh.
 6.6 p.m.—"Big Ben's" Close Down.

EVENING SESSION.

6.8 p.m.—"Big Ben," Programme Announcements.
 7.2 p.m.—A Talk by Captain Fred Astor of "The World 500 Years Ago."
 8.30 a.m.—From the Congregational Church, Petersham: An Organ and Vocal Recital, arranged by Miss Edith Hoskins.
 1. Organ, "Overture in D Minor" (Goldsmith-Taylor).
 2. Organ, "Homage" (Widor).
 3. Solo, "Fountain" by Mr. Henry Penn (Conducted, Miss Edith Hoskins).
 4. Organ, "Finlandia" (Sibelius).
 5. Vocal, "The Lord is My Light" (Allison).
 6. Miss Ellen, Soprano.
 7. Organ, "Great Offertory" (Waly).
 8. Organ, "Sketch in C Minor" (Wool).
 9. Vocal, "O Divine Redeemer" (Gounod).
 10. Miss Edith Hoskins.
 2. Organ, (a) "Grand March" (Mendelssohn). (b) "Spring Song" (Mendelssohn). (c) "Andante" (Mendelssohn).
 7.10 p.m.—From the Congregational Church, Petersham: The Evening Service, Preacher, Rev. A. E. Dorn.
 8.30 p.m.—From the Strand Theatre, Leichhardt: A Concert Programme arranged by the Leichhardt District Band.
 Song, "The Workman" (Spicer).
 Mr. Edward Barry.
 8.38 a.m.—Vocal Solo, "Serenade" (Della).
 Miss Mary Bennett.
 8.41 a.m.—March, "Fading Bells" (Pettie).
 The Leichhardt District Band.
 8.47 p.m.—Overture, "Cool Jan Talk" (Mozart).
 The Leichhardt District Band.
 8.51 p.m.—Song, "I Wonder if Love is a Dream" (Sanderson).
 Miss Constance Brighton.
 8.7 p.m.—(a) "Eternal Father."
 (b) "Son of My Soul."
 The Leichhardt District Band.
 9.19 p.m.—Organ Solo, "Procession" (Gounod).
 Mr. E. P. Kerry.
 9.18 p.m.—Song, "Rouse Up" (Fisher).
 Mr. Edward Barry.
 9.22 p.m.—Selection, "Missa" (Britten).
 The Leichhardt District Band.
 9.28 p.m.—Violin Solo, "Ballad D'Amour" (Berg).
 Miss Mary Bennett.
 9.31 p.m.—Song, "The Workman" (Spicer).
 The Leichhardt District Band.
 9.41 a.m.—Song, "My Air Walk" (Gardner).
 Miss Constance Brighton.

You can Recharge a Philco for a few pence.

Specified For Your Radiokes-Solodyne



AMPERITES are now available, 7/6 each, all sizes

Amperite, the self-adjusting rheostat, automatically controls the flow of current and makes hand-controlled rheostats obsolete. Permits the use of any type of tube or any combination of tubes.

Specified in the official **Radiokes-Solodyne**, and every other popular construction set.

For perfect results you must use **Amperite Filament Control**.

Undoubted leaders in the field are the now famous

Radiokes - Shielded - Solodyne Tuning Units

Of distinctive design, finished in beautiful black crystallised lacquer, with accessible terminals arranged for convenient wiring. Their performance is hailed by all users as being beyond all expectations.

Remember, these units were specified for the official **Radiokes-Solodyne**—"the super set," and we strongly advise you to beware of imitations.

Per Kit of 3 Units 75/-



Radiokes is the only successful Radio-frequency Choke. This Choke is of anti-capacity design, and that fact, coupled with high choking effect and low D.C. resistance, easy mounting and convenient terminals for wiring, make it the perfect choke.

Radiokes R.F. Choke

was specified for the official **Solodyne**, and most popular construction receivers. Do not accept "just as good" imitations.

Gold Label 8/6 each



From All Good Radio Dealers, or Direct—

METROPOLITAN ELECTRIC CO., LTD.
: 27-29 King Street, Sydney :

9.55 p.m.—March, "Distant Dwellings" (Dorcas)
The Leichhardt District Band.
10.0 p.m.—"Big Ben": NATIONAL ANTHEM:
Close Down.

2BL, SYDNEY

Sunday.

12.43 a.m.—Special News Service.
12.50 a.m.—Service Broadcast from Chalmers
Presbyterian Church.
1.00 p.m.—Organ Recital Broadcast from
Chalmers Presbyterian Church, by Mr. G.
Vern Barnett.
1.40 p.m.—From the Studio: Bible Class con-
ducted by Mr. W. Cairns Brasley.
1.15 p.m.—G.P.O. Clock and Chimes; Close
Down.
1.45 p.m.—Children's Service.
2.0 p.m.—Service Broadcast from St. Jude's
Church of England, Randwick.
2.30 p.m.—Band Recital from Moorman Town
Hall, by the Moorman Municipal Band, Con-
ductor, Mr. T. Heron, Assistant Artists,
Miss Dencie Ward and Mr. W. E. Lewis.
3.45 p.m.—From the Studio: Miss Marjorie
Skill (Soprano).
4.25 p.m.—Mr. Hal Purton (Baritone).
10.0 p.m.—G.P.O. Clock and Chimes; Recumbent
Prayer and Forecast, by courtesy of Mr.
C. J. Marra, Government Meteorologist.
10.4 p.m.—Miss Marjorie Skill.
11.1 p.m.—Mr. Hal Purton.
11.15 p.m.—National Anthem.

2GB, SYDNEY

Sunday.

MORNING SESSION.
10.20 a.m.—Organ Music from St. Alban's
Liberal Catholic Church.
10.35 a.m.—Morning Service from St. Alban's
Celebration of the Holy Eucharist.
Sermon.
12 noon—Close down.
EVENING SESSION.
8.45 p.m.—Music from Adyar Hall.
9.15 p.m.—Lecture from Adyar Hall.
9.30 p.m.—Violin Solo by MONICA HORDER:
1. "A Volga Boat Song" (arr. by Kreisler).
2. "Andante" (Baldassaroni).
9.45 p.m.—Songs by CLEMENT HOSKING:
1. "Don Juan's Serenade" (Tuchatskowsky).
2. "To Anthea" (Hartan).
9.55 p.m.—Piano Solo by ADA BROOK:
1. "Miserere" (Bach-Bowling).
2. "Rhapsody" (Brahms).
10.15 p.m.—Songs by CLEMENT HOSKING:
1. "Victoria" (Carriacou).
2. "Hymns & Hints" (Sanderson).
10.31 p.m.—Violin Solo by MONICA HORDER:
1. "Mighty Belk" (arr. by Kreisler).
2. "Ophelia" (Cull).
9.40 p.m.—Talk.
9.55 p.m.—Close down.

3LO, MELBOURNE

Sunday.

MORNING SESSION.
10.30 a.m.—Bells from St. Paul's Cathedral.
10.45 a.m.—Extraneous train information: British
Official Wireless News from Rugby.
11 a.m.—Service from YOOBAK PRESBY-
TERIAN CHURCH, Prahran, Rev. John
de Lencastre, M.A., Organist and Choirmaster,
Mr. James Hudson.
11.15 p.m.—Close down.

AFTERNOON SESSION.

1.15 p.m.—HEINRICH CITY BAND.
(Conducted by Hugh Niven).
1.30 p.m.—WESLEY CENTRAL MESSENGER—
PLEASANT HUNDAY AFTERNOON.
Chairman: Rev. J. H. M. TUNNICLIFFE.
ADDRESS: HON. T. TUNNICLIFFE,
M.L.A., Minister for Railways—
"Our Greatest National Problem."
National Anthem.
Benediction.
10.00 p.m.—Close down.

EVENING SESSION. CHILDREN'S HOUR.

8.30 p.m.—HYMNS by "THE FIED PIPERS"
8.40 p.m.—Answers to Letters and Birthday
Greetings.
9 p.m.—Musical Programme by "THE FIED
PIPERS":
Chorus, "I Wish I Were a Little Bird."
8.55 p.m.—"BILLY BUNNY."
"Life of Gordon."
9.45 p.m.—Bells from St. Paul's Cathedral.

NIIGHT SESSION.

7 p.m.—SERVICE FROM ST. PAUL'S
CATHEDRAL:
SERMON by the ARCHBISHOP OF
MELBOURNE.
FROM THE STUDIO—
8.30 p.m.—JOE ARONSON'S MILITARY
BAND:
March, "The Jolly Cobbler."
Overture, "Morning, Noon and Night"
(Suppe).
8.40 p.m.—TOM CERRASO, Harp Solo—
"Mazurka for Concerto & Concerto."
"Rhapsody on a mobile."
8.45 p.m.—ISABEL BIDDEL, Contralto—
"Ophelia mal fu" (Händel).
"Great St. John's" (Schubert).
8.55 p.m.—JOE ARONSON'S MILITARY
BAND:
"Hawaiian Air."
8.59 p.m.—STEPHANIE DESTE ("Wanda" of C.
Rose Marie) by permission of J. C.
Williamson, Ltd.:
"Extracts from Second Book of Samuel."
"Chant d'adieu" (Verdi).
"It May be Life."
9.12 p.m.—JOE ARONSON'S MILITARY
BAND:
"Songs of the Fair" (Maurice).
9.24 p.m.—ISABEL BIDDEL, Contralto:
"Autumn Storms" (Grieg).
"Piano Piece" (Brewer).
9.31 p.m.—J. ROBERTSON, Trumpet:
"Zelda" (Cude).
9.34 p.m.—HESS KETTETTE:
"The Buccaneers" (Laker).
9.48 p.m.—ARNO, vocal solo, British
Gibbeli Wireless news.
9.50 p.m.—JOE ARONSON'S MILITARY
BAND:
"Reminiscences of the South" (Rohlfson).
9.53 p.m.—ROYAL AUTOMOBILE CLUB
OF VICTORIA'S SAFETY MESSAGE
FOR TO-DAY IS FOR—
EVERYBODY.—"Throughout 270 roads,
Think safety. Use the roads of care-
fulness. Their fruits are success, prop-
riety and happiness."
OUR GREAT TROUGHT:
"The greatest men have not always the
best heads; many indiscretions may be
pardoned to a brilliant and ardent
imagination. The prudence and discretion
of a cold heart are not worth half as
much as the follies of an ardent mind."
—Baron de Grimm.

10 p.m.—GOD SAVE THE KING.
12.43 a.m.—Songs (Contralto), Gladys Har-
dwell.
1.10 p.m.—Violin Solo, Cecil Parker.
1.22 p.m.—Songs (Bass), Harold Webb.
1.34 p.m.—Close down.
CHILDREN'S SESSION.
8 p.m.—Music and story for the Little Ones,
by "Larklyn".
EVENING SESSION.
7 p.m.—Service from Cairns Memorial Church,
East Melbourne, Minister: Rev. J. H.
Dalk, B.A., B.D.
8.30 p.m.—Songs (Bass), George Wortley,
"Whisper You Wally" (Hansell).
"The Sweetest Flower that Grows"
(Hawley).
8.38 p.m.—Songs (Contralto), Ann Perrett,
"Face of Heaven," from Abbad Magari (Hau-
selt).
"The Smoky" (Seric).
8.45 p.m.—Piano Solo, Eddie Ercourtton.
"Fughetta G Minor" (Bachmann).
8.50 p.m.—Madame Mary Conley:
"In the great sea from 'The Elijah.'
"How Ye Lament" (Mendelssohn).
8.54 p.m.—Arta (Tenor), Edward Benchcroft:
"The Dawn Faithful," from St. Paul (Mendel-
sohn).
9.2 p.m.—Songs (Baritone), John Hobbs,
"We are the Soldiers" from the "Messiah"
(Handel).
"The Blind Pleurichman" (Gombault)
"Clarke".
9.24 p.m.—Madame Mary Conley and
Ann Perrett:
"Light and Home," from Abbad Magari,
(Hansell).
9.30 p.m.—Songs (Tenor), Edward Bench-
croft.
9.34 p.m.—"The Piano Song" from Carmen (Bisni).
8.52 p.m.—Piano Solo, Eddie Ercourtton:
"When I Dance" (Pachelbel).
"Polonaise in A Major" (Chopin).
9.39 p.m.—Songs (Baritone), John Hobbs:
"From Beyond Heavens," from Faust
(Gounod).
"Tommy Lark" (Marston).
9.44 p.m.—Madame Mary Conley:
In view of her most famous hymns,
"Angels, How Bright and Fair" (Handel).
"Pleading" (Hess).
9.48 p.m.—Songs (Bass), George Wortley:
"Sleep and the Roses" (Tate).
"Give a Man a Horse He Can Ride"
(O'Hara).
9.49 p.m.—Songs (Contralto), Ann Perrett,
"Bill as the Night" (Behm).
"All Souls Day" (Lasson).
9.54 p.m.—Vocal, Edward Benchcroft and
John Hobbs:
"Watch 'What of the Night" (Sarjant).
Miss Emily Davies Accompanist.
10 p.m.—G.P.O. Clock says "Ten." "The first"
News Bulletin.
10.5 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Sunday.

MORNING SESSION.
11 a.m.—Services from Independent Church,
Collins Street, Minister: Rev. J. Ernest
Jones, B.D., Organist: Mr. Herbert S.
Davis.
AFTERNOON SESSION.
SPECIAL STUDIO CONCERT under the
direction of Mr. Cecil Parker, the noted
Melbourne Violinist.
9 p.m.—Songs (Soprano), Freda Stevens.
9.17 p.m.—Violin Solo, Cecil Parker.
9.19 p.m.—Songs (Bass), Harold Webb.
9.25 p.m.—Piano Solo, May Broderick.
9.31 p.m.—Songs (Contralto), Gladys Har-
dwell.
9.35 p.m.—Violin Solo, Cecil Parker.
9.45 p.m.—Songs (Soprano), Freda Stevens.
9.53 p.m.—Piano Solo, May Broderick.

4QG, BRISBANE.

Sunday.

MORNING SESSION.
ST. BARNABAS CHURCH.
"The services Morning Service will be re-
layed from St. Barnabas' Church of England,
Red Hill.
11 a.m.—Holy Eucharist: Introit; hymn 315.
Psalm, Arta, Chappell, B., from verse 22;
Gospel; hymn 224; Gospel, St. John Chate-
ter 3rd, verses 12 to 18; offertory; hymn 423;
Communion; hymn 318; additional hymn 327;
proseur, Canon Delfant.

AFTERNOON SESSION.

WINDSOR MUNICIPAL BAND.
The Concert by the Windsor Municipal
Band will be relayed from the Jubilee Gar-
den.
8.15 p.m.—Band Concert.
9.15 p.m.—Close down.

Claritone Products

Truest to Nature

Price
21/-



CLARITONE Headphones.

W216 4,000 ohms.
(Wound to 120 ohms, if desired.)

The world-famous long range Radio Headphones still incorporating all their original advantages, namely:—

1. Maximum sensitivity.
2. Permanence.
3. Unequalled head comfort.
4. Facile and ready adjustment to wearer.
5. Hygienic and non-hairtrapping head-bands.
6. Individually assembled, inspected and packed before despatch.

Specially recommended for those who employ the unaided Crystal Set.
TRUEST TO NATURE.

CLARITONE Loud Speaker

(JUNIOR Model—Moulded Base)

W267 - - 2,000 ohms.

STANDARD FINISH:—Bright-black enamel, relieved with gold lining, and highly polished moulded base. An exceptionally light-weight model, designed to meet varied climatic conditions. Convenient radial lever adjustment. Complete with six feet super quality cord, with spade or pin tags.



£3/10/-

SOLE DISTRIBUTORS FOR NEW SOUTH WALES:

Weldon Electric Supply Co. Ltd.

352 KENT STREET - - SYDNEY

Phones: City 6361-2, MA 2265

NIGHT SESSION.

ST. BARNABAR CHURCH.

The complete Evening Service will be relayed from St. Barnabas' Church of Rockdale, Road Hill.

7.30 a.m.—Evangelist: Psalm 37; Psalm 103; Lesson: Isaiah Chapter IX, and 1st St. John Chapter III, from verse 10; hymns 25, 445, 215 services from "The Book of Common Prayer," and "Hymns from 'Hymns Ancient and Modern'"; Preacher: Canon Garland.

BAND CONCERT.

At the conclusion of the Church Service the Concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.

The programme will include:—Overture, "Le Châli de Bronze" (Anber); selection from "La Bohème" (Puccini); suite de ballet, "Coppélia" (Delibes).

10.30 p.m.—Close down.

5CL, ADELAIDE.

Sunday

11 a.m.—G.P.O. chimes.
11.45 a.m.—Relay from Rose Park Congregational Church.
12.30 p.m.—(Lunch).—Close down.

EVENING SESSION.

6.30 p.m.—G.P.O. chimes.
7.15 p.m.—Sunday stories for children.
7.45 p.m.—Divine service from Flinders Street Baptist Church.
8.15 p.m.—Variety Trio.
8.30 p.m.—Contralto solo, Miss Gwen Collett.
8.50 p.m.—Recitation, Mr. Geo. White.
9.15 p.m.—Contralto solo, Miss Gwen Collett.
9.35 p.m.—Variety Trio.
9.55 p.m.—Contralto solo, Miss Gwen Collett.
10.15 p.m.—G.P.O. chimes.
10.30 p.m.—Weather.
10.45 p.m.—Talk by Mr. F. H. Nicholas, "Two years' retrospect."
10.55 p.m.—Variety Trio.
11.10 p.m.—Recitation, Mr. Geo. White.
11.25 p.m.—Variety Trio.
11.40 p.m.—Original composition, Mr. Tom King.
12 p.m.—G.P.O. chimes and close down.

6WF, PERTH.

Sunday.

10.45 a.m.—Tune in.
11.15 a.m.—Morning Service relayed from St. Andrew's Presbyterian Church, St. George's Terrace, Perth.
Preacher: Rev. Geo. Tulloch.
12.30 p.m.—Tune in.
1.15 p.m.—Service by the Studio String Trio: Miss Leslie White, A.R.C.M., Piano. Mr. H. C. Busham, Violin. Mr. H. T. Newton, Tuba.
4.30 p.m.—Close Down.
7.30 p.m.—Tune in.
7.45 p.m.—Children's Bedtime Stories by Mr. Robert Edmondson.
8.15 p.m.—Evening Service relayed from the Wesley Church, Perth. Preacher, Rev. J. W. Brown, M.A., LL.B.
10.15 p.m.—From the Studio: Concert by the Perth City Band. Conductor, Mr. W. A. Halywood.
10.30 p.m.—Close Down.

Monday, June 27
2FC, SYDNEY.

EARLY MORNING SESSION.

Announcer: Mr. A. R. COCHRANE
7.10 a.m.—"Big Ben" and Programme Announcements.
7.45 a.m.—Studio Music.
7.55 a.m.—Country Station; Official Weather Forecast; Rainfall; Temperatures; Anticyclonic Memoranda; Shipping Intelligence; Mail Services.

7.55 a.m.—Investment Market; Mining Share Market; Metal Quotations.
8.10 a.m.—Wall Paper; Breadstuffs; Markets; Index-Clubs Markets; Produce Markets.
8.45 a.m.—"Big Ben" and "Morning Herald" Summary.
8.6 a.m.—"Big Ben"; Close Down.

MORNING SESSION.

Announcer: Mr. A. R. COCHRANE
9.5 a.m.—"Big Ben" and Announcements.
10.5 a.m.—Studio Music.
10.15 a.m.—"Big Ben" Morning Herald' News Service.
10.30 a.m.—Studio Music.
10.45 a.m.—A Talk by the 2FC Racing Commissioner.
10.45 a.m.—Studio Music.
11.0 a.m.—"Big Ben"; Marching Music for School Children.
11.5 a.m.—A.F.A. and Reader's Guide Services.
11.10 a.m.—Studio Music.
11.15 a.m.—A Reading.
11.50 a.m.—Close Down.

MIDDAY SESSION.

Announcer: Mr. A. R. COCHRANE
Accompanist: Mr. EDWART CHAPPEL
12 noon.—"Big Ben" and Programme Announcements.
12.5 a.m.—Studio Music.
12.55 a.m.—Official Weather Forecast; Rainfall.
1.25 p.m.—Studio Music.
1.40 p.m.—Summary of "Midday Morning Herald' News Service; Rights Wireless News.
12.30 p.m.—From the Chapel, Church, St. Laurence, George Street, Sydney. A Revival by the well-known Organist, Dr. Jerman.
1. "Sonata in A" (Gregg).
2. "Sonata in C" (Jarmann).
3. "Finlandia" (Debussy).
4. Vocal Duets, "Shower Me God be True" (Crossman), Misses L. Jarman and D. Crossman.
5. "Marche Triomphale" (Chabou).
6. Ave Maria d'Arvedi" (Llano).
7. "Rising Sun" (Chabou).
8.30 p.m.—From the Studio, Miss Kathleen Boswell, mezzo, "By the Waters of Minnie banks" (Llewellyn).
9. "The Day" (Weather Intelligence).
10 a.m.—"Evening News" Midday News Service; Producer's Distributing Society's Report.
1.10 p.m.—Studio Music.
1.25 p.m.—Stock Exchange, Second Call.
1.50 p.m.—Marching Music for School Children.
2.00 p.m.—Miss Kathleen Boswell, Mezzo, "Only the River Ripping By" (Haskins).
2.45 p.m.—Studio Music.
2.60 p.m.—Close Down.

AFTERNOON SESSION.

Announcer: Mr. LAURINCE HALBERT
Accompanist: Mr. EDWART CHAPPEL
3.0 p.m.—"Big Ben" and Programme Announcements.
3.15 p.m.—A Recital Arranged by Mr. D. Henry Stuart.
3.30 p.m.—Marching Music for School Children.
3.40 p.m.—FROM FARMER'S TEA ROOMS: Miss Eileen Moran, Soprano.
3.45 p.m.—From the Studio: Items from the Recital by Mr. D. Henry Stuart.
3.50 p.m.—FROM FARMER'S TEA ROOMS: Mr. William Boyewe, Bass.
"The Blind Piousman" (Clarke).
4.5 p.m.—A Studio Reading.
4.10 p.m.—FROM FARMER'S TEA ROOMS: Miss Eileen Moran, Soprano.
4.25 p.m.—Miss Katherine Boswell, Soprano, from the Studio, "The Joy Bird" (Haskins).
4.30 p.m.—From the Westworth Café: Items from the New Westworth Symphonic Dance Orchestra, conducted by Mr. Frederick Leighton.
4.45 p.m.—FROM FARMER'S TEA ROOMS: Mr. William Boyewe, Bass.
"Wander Thru" (Ronald).
4.45 p.m.—From the Studio: Stock Exchange, Wall Paper.
4.45 p.m.—The New Westworth Symphonic Dance Orchestra in popular numbers.
4.55 p.m.—Miss Katherine Boswell, Soprano, "Wander Thru" (Ronald).
5.0 p.m.—"Big Ben"; Close Down.

EARLY EVENING SESSION.

CHILDREN'S HOUR

5.5 p.m.—"Big Ben" and the Chimes of 1FC.
6.5 p.m.—The "Hello Man" Entertains the Children.
7.0 p.m.—A Story for the Older Ones.
7.40 p.m.—Dinner Music.
7.8 p.m.—"Big Ben" and Late Sporting News.
7.55 p.m.—Daily Market Reports (Wool, Wheat and Oats).
7.55 p.m.—Fruit and Vegetable Markets.
7.55 p.m.—Daily and Shipping Intelligence.
7.55 p.m.—Late Evening News' News Service.

NIGHT SESSION.

Announcer: Mr. LAURINCE HALBERT
Accompanist: Mr. EDWART CHAPPEL
7.55 p.m.—Programme Announcements.
7.55 p.m.—Studio Music.
8.0 p.m.—From the Haymarket Theatre, George Street, Sydney. The Haymarket Operatic Orchestra of 26 Members, under the baton of Mr. Stanley Porter.
8.10 p.m.—From the Spittal Hill, Uthman, conducted by Mr. William Bourne.
8.20 p.m.—From the Studio: Win and Windie, Entertainers.
8.25 p.m.—From "Sleep Again".
8.30 p.m.—Lawrence Broadbent, Bass Cantorino, "The Yemassee, Wedding Song" (Hayes).
8.35 p.m.—The Haymarket Operatic Orchestra, Conductor, Mr. Stanley Porter.
8.45 a.m.—From the Studio: Mr. Morris Bosley, English Composer-Pianist, in association with Madame Vera Tsarna, Soprano, in a Recital of new numbers, not previously heard in Australia. The Composer at the Piano.
8.55 p.m.—Win and Windie, Entertainers. "Sleeping Children".
9.0 p.m.—Lawrence Broadbent, Bass Cantorino, "Mendelssohn's Wedding" (Grove).
9.10 p.m.—The Sydney Harmonic Society, Conductor, Mr. W. Bourne (from the Recital Hall).
9.20 p.m.—Win and Windie, Entertainers, "The Way We Got Both Lads Together".
9.25 p.m.—Lawrence Broadbent, Bass Cantorino, "The Farfare" (Gould).
9.30 p.m.—Win and Windie, Entertainers, "A Cup of Coffee".
9.35 a.m.—The Haymarket Operatic Orchestra, Conductor, Mr. Stanley Porter.
9.40 p.m.—Madame Vera Tsarna, Soprano, in collaboration in the Recital of new English numbers.
9.45 p.m.—"Big Ben"; The Haymarket Operatic Orchestra, Conductor, Mr. Stanley Porter.
9.50 p.m.—Lawrence Broadbent, Bass Cantorino, "New Shows the Crimson Petal" (Gulliver).
10.10 p.m.—Madame Bosley, English Composer-Pianist.
10.15 p.m.—The Haymarket Operatic Orchestra, Conductor, Mr. Stanley Porter.
10.25 p.m.—A Celestial Recital from the Studio.
10.30 p.m.—The New Westworth Symphonic Dance Orchestra, Conductor, Mr. Frederick Leighton.
10.35 p.m.—Late News and Announcements.
10.40 p.m.—"Big Ben"; The New Westworth Symphonic Dance Orchestra.
10.45 p.m.—National Anthem; Close Down.

2BL, SYDNEY

Monday.

DAY SESSION.

DESCRIPTION OF EACH RACE AT THE SPINDY TROTS BROADCAST DIRECT FROM THE RACE COURSE BY MR. BASIL KILKE.

EARLY MORNING SESSION.

7.55 a.m.—G.P.O. Close and chimes.
7.55 a.m.—State weather report.
7.45 a.m.—Forecast.
7.45 a.m.—News service from the "Daily Telegraph".

RADIO TRIUMPH

"LONDON CALLING THE BRITISH EMPIRE"

On the morning of May 21st—the Evening Programmes from London and Daventry Broadcast Stations were clearly heard throughout the British Empire—FOR THE FIRST TIME IN THE HISTORY OF RADIO.

Famous Scientists working continuously in the Philips Laboratories to perfect Philips Radio Apparatus—designed and created the short-wave station—

**PCJJ**

USING PHILIPS PRODUCTS EXCLUSIVELY, and maintained by Philips for experimental purposes.

The re-broadcast of London and Daventry through PCJJ was clearly and strongly heard DIRECT on two and three valve sets throughout the far flung British Empire, including Australia and New Zealand—over 10,000 miles distant.



Only made possible by

PHILIPS VALVES

Co-products of Philips Loud Speakers, "B" Battery Eliminators, Battery Chargers and the famous Philips Lamps.

7:16 a.m.—Fruit market report.
 7:18 a.m.—Vegetable market report.
 7:23 a.m.—A.M.L. & F. Co's report.
 7:24 a.m.—Dairy farm produce market report.
 7:25 a.m.—Poultry market report.
 7:30 a.m.—G.P.O. Clock and chimes.
 Musical programme from the Studio.
 7:37 a.m.—News from the "Sun."
 7:42 a.m.—Boats in call by wireless.
 7:44 a.m.—Mail information, shipping, arrivals and departures, and port directory.
 7:45 a.m.—News service from the "Daily Telegraph."
 8 a.m.—G.P.O. Clock and Chimes.
 Close down.

MORNING SESSION.

10:40 a.m.—G.P.O. Clock and Chimes.
 Musical programme from the Studio.
 10:49 a.m.—News from the "Daily Telegraph."
 10:50 a.m.—Musical programme from the Studio.
 11 a.m.—G.P.O. Clock and chimes.
 Announcements.
 11:5 a.m.—Musical programme from the Studio.
 11:15 a.m.—Talk on "Hockey" by Miss Gwen Varley, Broadcasters Women's Sports Authority.
 Social Notes: Replies to correspondents.
 Talk on "Tallist Hints" by Mrs. Jordan.
 11:30 a.m.—G.P.O. Clock and chimes.
 Special ocean forecast and weather report.
 12:3 p.m.—Musical programme from the Studio.
 12:15 p.m.—Information: Mails, Shipping, and port directory.
 12:18 p.m.—Boats in call by wireless.
 12:29 p.m.—Fruit market report.
 12:33 p.m.—Vegetable market report.
 12:34 p.m.—London Metal market report.
 12:35 p.m.—Dairy and Farm produce market report.
 12:39 p.m.—G.P.O. Clock and Chimes.
 12:40 p.m.—Furage market report.
 12:42 p.m.—Fish market report.
 12:44 p.m.—Habitat market report.
 12:46 p.m.—News from the "Sun."
 12:48 p.m.—Hiller's Instrumental Quartette.
 Director, Caryl Costello.
 1:20 p.m.—G.P.O. Clock and chimes.
 News from the "Sun."
 1:45 p.m.—Musical programme from the Studio.
 1:47 p.m.—Stock Exchange report.
 2 p.m.—G.P.O. Clock and chimes.
 Close down.

AFTERNOON SESSION.

RACING INFORMATION BROADCAST IMMEDIATELY AFTER EACH RACE; BY COURTESY OF THE "SUN."
 2 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun."
 2:18 p.m.—Operatic Talk by Mr. G. A. Saunders.
 2:30 p.m.—G.P.O. Clock and chimes.
 Talk to Children and special entertainment for Children in Hospital.
 4 p.m.—G.P.O. Clock and chimes.
 Musical programme from the Studio.
 4:15 p.m.—Special Stock Exchange report.
 4:16 p.m.—Musical programme from the Studio.
 4:43 p.m.—News from the "Sun."
 4:50 p.m.—Racing resume.
 4:52 p.m.—Resume of night's programme.
 4:54 p.m.—Announcements and What's on.
 4:56 p.m.—Special ocean forecast.
 5 p.m.—G.P.O. Clock and Chimes.
 Close down.

EARLY EVENING SESSION.

5:45 p.m.—G.P.O. Clock and chimes.
 Dainty Longlegs and the Kiddies.
 6:40 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.
 Australian Mercantile Land and Finance Co's Report.
 Weather report and Forecast.
 Feeders' Distributing Society's Fruit and vegetable market report.
 Stock Exchange reports.

Grain and Fodder reports ("Sun").
 Dairy Produce reports ("Sun").
 7:00 p.m.—Talk on the "Motor Car," by Mr. Martin.

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.
 Broadcasters' Temple Chorus.
 8:9 p.m.—The Versatile Two in Piano and Saxophone.
 8:15 p.m.—Professor Randal Woodhouse (Tenor).
 8:20 p.m.—Newtown Band Broadcast from Industrial Hall, Newtown.
 8:40 p.m.—Broadcasters' All-Sports Expert will talk on General Footballing.
 8:55 p.m.—Resume of following day's programme.
 Weather report and Forecast by courtesy of Mr. C. J. Harris, Government Meteorologist.
 9 p.m.—G.P.O. Clock and chimes.
 9:1 p.m.—Bebe Scott (Soubrette and Child Improviser).
 9:5 p.m.—Mr. Bobby Watson (Comedian).
 9:15 p.m.—Miss Marie Maxwell (Comedienne).
 9:25 p.m.—Newtown Band.
 9:42 p.m.—The Players' Club in a Comedy Sketch entitled, "Thomas."
 10:10 p.m.—Professor Randal Woodhouse.
 10:25 p.m.—News items by courtesy of the "Sun" Newspapers.
 10:38 p.m.—Miss Bobbie Scott.
 10:46 p.m.—Mr. Bobbie Watson.
 10:53 p.m.—Miss Marie Maxwell.
 11 p.m.—G.P.O. Clock and chimes.
 National Anthem.

2GB, SYDNEY

Monday.

MORNING SESSION.

9 a.m.—Music.
 9:8 a.m.—"Cherish" Talk.
 9:12 a.m.—Music.
 9:28 a.m.—Psychological Class.
 9:46 a.m.—Music.
 9:48 a.m.—Health and Diet.
 10 a.m.—Close down.

AFTERNOON SESSION.

1:30 p.m.—Music.
 1:37 a.m.—Talk.
 1:52 p.m.—Music.
 4:7 p.m.—Talk.
 4:22 p.m.—Close down.

EVENING SESSION.

8:30 p.m.—Children's Session.
 8:35 p.m.—Music.
 7:5 p.m.—Talk.
 7:15 p.m.—Music.
 7:29 p.m.—Talk.
 7:40 p.m.—Music.
 7:55 p.m.—Talk.
 7:56 p.m.—Duets for two Violins by Floyer DAN SCULLY, MONICA HORDER.
 8:00 p.m.—Address.
 8:20 p.m.—Songs by MISS EVA CROFT.
 8:28 p.m.—Concerto for two Violins and Piano by Hsek: DAN SCULLY, MONICA HORDER, ADA HROON.
 8:45 p.m.—Musical Monologues by J. E. Powell.
 8:54 p.m.—Folio Solos by Mr. Les. Spruille.
 9:15 p.m.—Violin Solo by DAN SCULLY.
 1 "Ronde" (Mozart).
 9:23 p.m.—Songs by MISS EVA CROFT.
 9:32 p.m.—Instrumental Quartette.
 DAN SCULLY, MONICA HORDER, MURIELLE LANG, ADA HROON.
 9:55 p.m.—Talk.
 10 p.m.—Close down.

3LO, MELBOURNE.

Monday

MIDDAY SESSION.

12 noon.—Time Record, British Official news from Rugby, Reuters and The Australian Press Association Cables. "Argus" and "Herald" news service.
 12:30 p.m.—DARCY THID.
 12:32 p.m.—STUDIO ORCHESTRA: "Morning, Noon, and Night" (Stamps).
 12:40 p.m.—Stock Exchange information.

12:42 p.m.—DOROTHY ROXBURGH, Viola: "La Miroslava," "La Miroslava" (Marrin).
 12:50 p.m.—MADAME LAMBERT: "Symphonie de Sylvain" (Hamburg, "Cocher").

1:24 p.m.—STUDIO ORCHESTRA: "Saxophone" (Cakara).
 1:37 p.m.—Compositional Information, Shipping and Weather, Weather Report for Victoria, Tasmania, South Australia, and New South Wales, Gales Forecast, River Reports.

1:32 p.m.—JOE BRONNAN AND IDA NEWTON: "The Flimber's Proposal."
 IDA NEWTON: "Does That Like a Man?"

1:52 p.m.—BARRY NORTH, English Concertina (Solo).
 Popular Songs.
 1:56 p.m.—MADAME LAMBERT, Soprano: "Faintly Complete" (Wendy).
 1:57 p.m.—STUDIO ORCHESTRA: "Mediation" (Bodson).

1:57 p.m.—DARLETON GRIESE: "Mamma's Gone Young."
 "Oh Well I Had My Old Girl Back Again."
 1:54 p.m.—STUDIO ORCHESTRA: "Barracade" (Goffenbach).
 AFTERNOON SESSION.
 2 p.m.—STUDIO ORCHESTRA: "Rise of Soles" (Bodson) (Solo).
 2:10 p.m.—MRS. DOROTHY SILK: "Humorous."
 2:20 p.m.—MARION LIGHTFOOT, Steel Guitar: "Drowsy Melior," "Ooddy."
 2:32 p.m.—RUSSELL GALLOW, Tenor: "Ma Pizulina," "The Streets of Long Ago" (Garruso).
 2:40 p.m.—STUDIO ORCHESTRA: "Turkish Patrol" (Boethoven).
 2:48 p.m.—GISELA: "PLAY."
 "TWO ON A BULK."
 Mrs. Taylor, Mr. Solopio Vidal Kelly, the other Miss Freda Dineen, Susan, Betty, and Thomas Street, S.W.

4:8 p.m.—MABEL RIDDEL, Contralto: "At Night," with Violin accompaniment (Bachmann/Scott).
 "Yander" (Gibson).
 4:32 p.m.—STUDIO ORCHESTRA: "Amour Capote" (Froim).
 4:39 p.m.—MABEL RIDDEL, Contralto: "Becquer Lyrics" (Annotated by Westcott).
 "The Clocks" (Saint Saens).
 4:47 p.m.—MARION LIGHTFOOT, Steel Guitar: "Patrol Eccentric," "To the Front!"
 4:52 p.m.—MISS FLORA PELL: "Economic Science."
 4:55 p.m.—"Barnum" news service.
 5 p.m.—Close down.

5:30 p.m.—Answers to Letters and Birthday Cards.
 5:30 p.m.—MARION LIGHTFOOT, Soprano: Songs for the Children.
 5:37 p.m.—LITTLE MISS KOORAHURRA: "The Legend of Peter Rabbit" (By special request).
 5:45 p.m.—MARION LIGHTFOOT, Banjo: "Believe Me I Am This Endearing Young Chimp."
 "Last Rose of Summer."
 "Masonic Hode."

6:15 a.m.—MIKE YOKEL, Iron, Jackson's Hook, Wymondley, for five years, Midweeknight Champion of the World, will tell you all about the Grand Boats who live in the heart of the Rocky Mountains.
 6:30 a.m.—Official Report of Newmarket Stock Sales. Numbers of Sheep and Cattle drawn for West's Sales.
 6:35 p.m.—"Herald" news service. Weather Report, Shipping, News, Midweeknight Champion of the World, will tell you all about the Grand Boats who live in the heart of the Rocky Mountains.
 6:38 a.m.—Official Report of Newmarket Stock Sales. Numbers of Sheep and Cattle drawn for West's Sales.
 6:43 p.m.—"Herald" news service. Weather Report, Shipping, News, Midweeknight Champion of the World, will tell you all about the Grand Boats who live in the heart of the Rocky Mountains.
 6:47 a.m.—Stock Exchange Information.
 6:50 a.m.—Fruit Market reports by J. B. Barrett, Ltd. Market prices.
 6:52 a.m.—Hilly reports.
 6:58 a.m.—Market reports of Fruit by the Victorian Fruitgrowers' Association, compiled by "The Fruit World" exclusive to 2LO.

A Small Thing but a Big Convenience



EVERYONE who has a Radio set should have a Tungar Battery Charger. With a Tungar you can keep your batteries always fully charged, thus ensuring reception that is clear and full, and free from "battery noise." Constant re-charging with a Tungar, too, means longer life for the batteries themselves.

Decide now to stop carrying heavy batteries to and from Service Stations, to enjoy the better reception and to prevent all possibility of having your batteries "peter out" just when you are looking forward to some particularly interesting programme. You need know nothing about electricity to operate the Tungar. Simply connect it up to your battery (A or B) and to a power point. Snap the switch and it does the rest automatically. Tungar cannot overcharge. Leave it if you like to charge your batteries while you sleep.

There is no mess with a Tungar, for it does not use acid. It is neat, small and compact. Ask any good Radio dealer to show it to you.

Tungar

BATTERY CHARGER



Tungar is the product of the great General Electric Company whose monogram trademark is a guarantee of excellence, of workmanship, materials and finish. Over 70,000 Tungars were sold last year.

SYDNEY:

93-95 Clarence St.

NEWCASTLE:

53 King St.

AUSTRALIAN

GENERAL ELECTRIC

Authorized General Electric Company Ltd

MELBOURNE:

Cor. Queen and Little Collins Sts.

BRISBANE:

Queen & Adelaide Sts., Petrie Bight.

NIGHT SESSION.

7.15 p.m.—Under the Auspices of The Boy Scout Association, DR. C. G. MADAM will speak on:

"Boy Scout Immigration Scheme."

7.30 p.m.—MR. E. R. TAYLOR: "School Life and School Sports."

7.45 p.m.—Under the Auspices of the AGRICULTURAL DEPARTMENT, MR. J. FARHALL, Orchard Supervisor, will speak on:

"Pestion Fruit Culture."

8 p.m.—PRAHRAN CITY BAND: March, "The Vedette" (Alford).

March, "Commonwealth" (Rimmer).

8.10 p.m.—MADAME LAMBERT: "Le Ciel" (Massenet).

"Mimi" (Lecocqville).

8.11 p.m.—HARRY NORTH, English Concertina: Ragtime Melodies.

8.25 p.m.—MR. A. T. LATHAM: "Work of the Victoria Society for the Protection of Animals."

8.40 p.m.—PRAHRAN CITY BAND: Selection, "The Mikado" (Sullivan).

8.50 p.m.—Announcements.

8.55 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS: POLICE.

"MOTORISTS—Don't drive fast past schools or through populous places. Pay attention to road warning signs; obey police signals."

8.55 p.m.—MADAME LAMBERT, Soprano: "Valse Boxy Nini" (Tosti).

"Serenade Quatre" (Lalibert).

"Where should this music be? In the air, or the earth?"—Solempare.

9.3 p.m.—MUSIC PROGRAMME ARRANGED BY THE MELBOURNE UNIVERSITY CONSERVATORIUM, under the direction of Prof. Bernard Helms. Artists: Miss Edith Fraser, pianist; Miss Constance Ziebell, Mrs. Bink, violinist; Miss Ethel Fordham, vocalist.

ELISE FRASER, Flap: "Valse Caprice" (Rachmaninoff).

"Friedrich, A Hat" (Chopin).

"Waltz in G flat" (Chopin).

ETHEL FORDHAM: "Duo in G major" (Chopin).

ETHEL FRASER and CONSTANCE ZIEBELL, Piano and Violin: "Sonata in G." 1st and 2nd movements (Chopin).

ETHEL FORDHAM: "Love Went a-biding" (Bridges). "Go Not, Happy Day."

CONSTANCE ZIEBELL, Violin: "Siciliano and Rikasso" (Granados-Kreisler).

8.45 p.m.—PRAHRAN CITY BAND: "Waltz, 'Amelia'."

9.2 p.m.—ISABEL BIDDLE, Contralto: "In Autumn" (Franz).

"The Sandman" (Schubert).

10 p.m.—HARRY NORTH, English Concertina: Familiar Airs.

10.15 p.m.—THE EDY D'ARCY TRIO: ROSA D'ARCY: "Love Here is My Heart" (Hilfer).

MYRTLE SNOWLES, Piano Solo: "Valse in D flat" (Chopin).

TRIO, "Drama 'Caroline Morn'" (Schmidt).

TRIO, Fox-Trot: "Sunday."

10.45 p.m.—PRAHRAN CITY BAND: "Overseas in Area" (Adam).

Popular Number: "Bye, Bye, Diablin'."

10.57 p.m.—Meteorological information and "Amp" News.

10.47 p.m.—CARLTON CHASE: "Liddle Back of Mine."

"Where Did You Get Them Yarns?"

10.4 p.m.—PRAHRAN CITY BAND: "Simply" (Rimmer).

11 p.m.—OUR GREAT THOUGHT: "Let wickedness escape me as may at the hour, let thee fall of deling justice upon itself; for every guilty person is his own executioner."—Shakespeare.

11.4 p.m.—JIM ARONOFF and THE SYN-COPATED SYMBIOTISTS:

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE 4QG, BRISBANE.

Monday.

MORNING SESSION.

11 a.m.—G.P.O. Clock says "Kissin'."

11.1 a.m.—Brunswick Printing Concert.

11.25 a.m.—British official wireless from Rugby Super Wireless Station, England, at 5 a.m. this morning. Express train information, "The Age" News Bulletin (radio live to 3AR).

MIDDAY SESSION.

12 noon—G.P.O. Clock says "Twelve."

12.3 p.m.—First weather forecast. "The Age" Sport Calendar.

12.5 p.m.—Studio Concert.

12.55 p.m.—"The Age" Stock Exchange report. Market reports. Mail notices. Shipping movements.

1 p.m.—Close down.

2.00 p.m.—Studio Orchestra (Director: Ronald Beasley).

2.45 p.m.—Songs (Soprano), Vera Thompson.

2.55 p.m.—Studio Orchestra.

3 p.m.—Piano Solo.

3.15 p.m.—The Studio Orchestra.

3.25 p.m.—Songs (Soprano), Vera Thompson.

3.50 p.m.—Violin Solo, Herbert Pettifer.

3.55 p.m.—Studio Orchestra.

4 p.m.—G.P.O. Clock says "Four." Second weather forecast.

4.4 p.m.—Studio Orchestra.

4.10 p.m.—Songs (Tenor), Edward Piper.

4.30 p.m.—Studio Orchestra.

4.40 p.m.—Songs (Tenor), Edward Piper.

4.48 p.m.—Studio Orchestra.

4.55 p.m.—Tonight's Amusement Guide.

5 p.m.—G.P.O. Clock says "Five." Close down.

CHILDREN'S SESSION.

THE FARMYARD FIVE.

EVENING SESSION.

DANCE-NIGHT CONCERT.

8 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Songs (Baritone), Frederick George.

"Harlequin" (Sanderson).

"Shipmate O Mine" (Sanderson).

8.7 p.m.—Songs (Contralto), Edson Pascoe-Webber).

"The I Awake" (Woodford-Findon).

8.14 p.m.—Lizgett's Ball-room Orchestra.

8.30 p.m.—Comedy Duo, Jack Woods and Amy Varley. An interlude of comedy and burlesque by two popular comedians.

"West of the Great Divide" (Ball).

"Middleton's Christmasing."

8.45 p.m.—Lizgett's Ball-room Orchestra.

8.50 p.m.—Songs (Baritone), Frederick George.

"Drake Goes West" (Sanderson).

"Friend O Mine" (Sanderson).

8.7 p.m.—Songs (Contralto), Edson Pascoe-Webber).

"Fleude" (Ogil Scott).

"Sulain" (Lang).

8.14 p.m.—Lizgett's Ball-room Orchestra.

8.40 p.m.—Dance Talk, Miss Elys Van Houghton, the well-known instructor, will talk on "Modern Ball Room Dancing."

8.45 p.m.—Comedy Duo, Jack Woods and Amy Varley, show comedy and burlesque from 10.45 fancy dress.

"I Never Know How Wonderful You Were."

"Farm Yard Melody."

10 p.m.—G.P.O. Clock says "Ten."

10.1 p.m.—"The Age" News Bulletin.

10.15 p.m.—Dance Hour, Lizgett's Ball-room Orchestra (Director, Harry Langley).

11 p.m.—G.P.O. Clock says "Eleven."

GOD SAVE THE KING.

Monday.

MIDDAY SESSION.

1 p.m.—Market reports, weather information supplied by the Commonwealth Weather Bureau, news services supplied by "The Daily Mail" and "The Daily Standard."

FROM HOTEL CARLTON: 1.25 p.m.—Lunch music played by Hotel Carlton Symphony Orchestra.

FROM THE OBSERVATORY: 1.50 p.m.—Standard time signal.

2 p.m.—Close down.

AFTERNOON SESSION.

FROM HOTEL CARLTON: 2.30 p.m.—Afternoon tea music played by Hotel Carlton Symphony Orchestra.

FROM THE OBSERVATORY: 4.15 p.m.—News service supplied by "The Telegraph."

4.30 p.m.—Close down.

EARLY EVENING SESSION.

8 p.m.—News service supplied by "The Daily Standard."

8.30 p.m.—"The Children's Session; Stories by 'The Synchman'."

9 p.m.—Market reports; stock reports.

9.30 p.m.—Weather news, announcements.

9.45 p.m.—Standard time signal.

9.55 p.m.—Lectures: "Great Crops for Pigs" by Mr. E. J. Shelton (Director of Pig Raising).

NIGHT SESSION.

MANDOLIN RECITAL.

Recital program will comprise a Recital relayed from the Home of Mr. and Mrs. C. W. Waller, Brisbane.

FROM THE STUDIO OF MR. AND MRS. CROFT:

8 p.m.—Orchestral, "Ballad on the St. Lawrence" (Halperin), Wagon Orchestra; violin solo, "Mines" (Mozart); Mr. Eric Yates, mandolin solo, "Pioneer's Song" (Masson); Miss Glavin Flack, flute quartette, "The Wanderer" (Mozart); Mrs. Gwyn Jones, South and Black mandolin solo, "Pierrot's March" (Lillo); Messrs. Willie Fellman and Vic. Able, tenor and baritone duet, "Cherish" (Halls); Messrs. Croft and Gwyn, violin solo, "Moto Perpetuo" (Carl Bohm); Mr. Neville Friedrichs, vocal duet, "Old Pal Why Don't You Answer Me" (Lorenz); Mr. Theo. Croft and Miss Bella Elm; pianoforte duet, "Older Chimes" (Paul Loran); Miss Marie Watson and Miss Emily Songmore; tenor solo, "To Have, To Hold, To Love" (Ball); Mr. Theo. Croft; violin trio, "Symphony"; Mrs. Croft; Mr. Black and Mr. Vic. Able; contralto solo, "Love's Old Sweet Song" (Molloy); Miss Bella Elm; pianoforte solo, "Crescendo" (Harris); concerted number, "Down by the Ribber" (Scott Gatz); Messrs. Croft and Students; mandoline trio, "Old Fells at Home" (Francis); Messrs. Bezzigan, Lord, Tomby and Gwyn; tenor solo, "My English Boy" (German); Mr. Jack Black; violin solo, "Colonel Bager" (Alford); Mr. Jack Black; concerted number, "Good-night" (Scott Gatz); Students of Crafts Institute (vocal) retirement.

10 p.m.—"The Daily Mail" news; weather news.

Close down.

5CL, ADELAIDE

Monday.

MORNING SESSION.

12 noon—G.P.O. chimes.

12.1 p.m.—Recital on the New Reproducing System and the Adelaide Reproducing.

12.30 p.m.—"Amp" News; news services.

12.50 p.m.—Market reports.

1 p.m.—G.P.O. chimes.

1.15 p.m.—Musical programme continued.

2 p.m.—G.P.O. chimes and close down.

For the Family's Sake, Buy a Philco.

PROVEN RELIABLE IN THE HANDS
OF THOUSANDS OF SATISFIED USERS

PHILIPS



New Natural-tone LOUDSPEAKER

With Patented Balanced Magnet System and Floating cone, giving fidelity in reproduction beyond compare.

Popular H.T. SUPPLY UNIT

Which eliminates "B" Batteries for all time. Providing power for your Radio from the Light Supply, costing but a few pence per week.

RADIO BATTERY CHARGER

Giving full-wave rectification not possible in ordinary Chargers and is fool-proof, silent, and simple to connect. Charges 2, 4, or 6-volt batteries at 1.3 amps. without attention.

1927

A NEW GENERAL PURPOSE VALVE!

A 409 MINIWATT

Companion to the Famous B406)

A magnificent Detector, R.F. and 1st Audio 4-volt Valve—yet requiring a filament current of only .06 of an ampere!

YOUR BATTERIES LAST NEARLY TWICE AS LONG!

The A409 (companion to the B406) constitutes still another triumph for Philips Laboratories. There is no other Valve taking such minute current that gives the same undistorted output.

USE IT IN ANY POSITION.

But we commend the B406 for last Stage Audio.

For even greater volume and full round tone use the—

B 403—4V. POWER VALVE

This requires but 1V amps on the filament and is able to handle without distortion sufficient energy to operate any speaker at full volume.

INSIST ON **PHILIPS** THEN CHOOSE
THE VALVE FOR THE JOB.

AT ALL DEALERS



AFTERNOON SESSION.

- 2 p.m.—G.P.O. chimps.
 1.1 p.m.—Hiday from the Maple Leaf Cafe—Classical Items.
 1.45 p.m.—From the Studio—Musical Items.
 4 p.m.—G.P.O. chimps.
 4.15 p.m.—Hiday from the Arcadia Cafe—Orchestral Items.
 4.55 p.m.—Station announcements.
 5 p.m.—G.P.O. chimps and close down.

EVENING SESSION.

- 8 p.m.—G.P.O. chimps.
 8.1 p.m.—Dinner music by Covent Garden Orchestra.
 8.45 p.m.—Bedtime stories.
 9.0 p.m.—Market reports.
 9.30 p.m.—Physical culture talk by Mr. Noel Hubbard.
 9.55 p.m.—G.P.O. chimps.
 9.55 p.m.—SCL Orchestra.
 8.15 p.m.—Meno-soprano solo. Miss Heryl Counter.
 10 p.m.—The SCL Twinkler's Boys' Club.
 8.45 p.m.—SCL Orchestra.
 9 p.m.—G.P.O. chimps.
 9.5 p.m.—Weather reports.
 9.55 p.m.—Dance's wheat report.
 9.55 p.m.—Song, Miss Heryl Counter.
 10 p.m.—Twenty minutes with Mr. Will Runan.
 9.25 p.m.—SCL Orchestra.
 9.35 p.m.—Song, Miss Heryl Counter.
 9.45 p.m.—SCL Orchestra.
 9.50 p.m.—Tone solo, Mr. Chas. Baggett.
 9.55 p.m.—G.P.O. chimps.
 10.1 p.m.—Advertiser news service.
 10.15 p.m.—SCL Orchestra.
 10.25 p.m.—Tone solo, Mr. Chas. Baggett.
 10.25 p.m.—Comedy Interlude, Mr. Will Runan.
 10.35 p.m.—SCL Orchestra.
 10.40 p.m.—Song, Mr. Chas. Baggett.
 10.45 p.m.—SCL Orchestra.
 11 p.m.—G.P.O. chimps and close down.

6WF, PERTH.

Monday.

- 10.30 p.m.—Tune In.
 10.45 p.m.—First Local News Bulletin; Market Report; Cables.
 1.0 p.m.—Time Signal from Perth Observatory.
 1.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
 1.2 p.m.—Studio Quintette.
 2.0 p.m.—Close Down.
 2.30 p.m.—Tune In.
 2.35 p.m.—Musical Programme.
 4.45 p.m.—Studio Instrumental Trio.
 4.50 p.m.—Close Down.
 6.45 p.m.—Tune In.
 6.50 p.m.—Uncle Neddy and Duffy will talk to the Kiddies.
 7.20 p.m.—Stock and Share Intelligence; Market Reports; Cables; News supplied by courtesy of "The West Australian"; Newspaper Copy.
 7.45 p.m.—Talk.
 8.0 p.m.—Time Signal from Perth Observatory.
 8.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
 8.2 p.m.—Band Night. Concert by the R.S.L. Band, Conductor, Mr. J. B. Geary.
 10.0 p.m.—Late News; News supplied by courtesy of "The Daily News"; Newspaper Copy; Ships within Range Announcements; Weather Report and Forecast.
 10.50 p.m.—Close Down.

Tuesday, June 28
2FC, SYDNEY

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and programme announcements.
 7.5 a.m.—Studio Music.
 7.55 a.m.—COUNTRY SESSION. Official Wireless Forecast, rainfall, temperatures, astronomical observations, shipping intelligence, Mail service.
 7.55 a.m.—Investment market, winning share market, metal quotations.

- 7.55 a.m.—Wool Sales, Broadbent's Markets, Inter-Active Markets, Produce Markets.
 7.45 a.m.—"Sydney Morning Herald" announcements.
 8 a.m.—"Big Ben" Close down.

MORNING SESSION.

- 10 a.m.—"Big Ben" and programme announcements.
 10.5 a.m.—Studio Music.
 10.15 a.m.—"Sydney Morning Herald" news service.
 10.30 a.m.—Studio Music.
 10.35 a.m.—A Talk by the 2FC Barbers' Committee.
 10.45 a.m.—Studio Music.
 11 a.m.—"Big Ben" Marching Music for School Children.
 11.30 a.m.—A.P. and Router's Cable Service.
 11.40 a.m.—Studio Music.
 11.45 a.m.—A Talk on Home Cooking and Recipes, by Miss Ruth Furst.
 12.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and programme announcements.
 12.5 p.m.—Stock Exchange first call.
 12.8 p.m.—Official Weather Forecast, rainfall.
 12.9 p.m.—Studio Music.
 12.10 p.m.—Summary of "Sydney Morning Herald" news service, Ragly Wireless news.
 12.25 p.m.—Studio Music.
 12.30 p.m.—Marching Music for School Children.
 12.40 p.m.—Miss Ida Johnston, Soprano.
 12.45 p.m.—Studio Music.
 12.50 p.m.—Miss Freda Fish, Violinist.
 1 p.m.—"Big Ben" Weather intelligence.
 1.4 p.m.—"Evening News" midday news service. "Producers' Distributing Society's" short.
 1.20 p.m.—Studio Music.
 1.20 p.m.—Stock Exchange second call.
 1.30 p.m.—Marching Music for School Children.
 1.40 p.m.—Miss Ida Johnston, Soprano.
 1.45 p.m.—Studio Music.
 1.55 p.m.—Miss Freda Fish, Violinist.
 2 p.m.—"Big Ben" Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
 3.5 p.m.—A Recital of Australian Records, including—
 "Piano solo, by Gil Deek.
 Baritone Solo, by David Craven.
 Australian Hilt Call, Corporal Phillips.
 Comedy Numbers, by Kitty Elliott.
 3.30 p.m.—Marching Music for School Children.
 3.40 p.m.—FROM FARMER'S TEA ROOMS:
 Miss Anne Mills, mezzo:
 "Still as the Night" (Bobby).
 3.45 p.m.—FROM THE STUDIO:
 Miss Dorothy Benbow, Contralto:
 "God Touched the Rose" (Brown).
 3.50 p.m.—Miss Eilyn Martin, Soprano:
 "Your Done You" (Andrew).
 4 p.m.—FROM FARMER'S TEA ROOMS:
 Miss Dorothy Benbow, contralto:
 "Sunshine and Clouds" (Lohr).
 4.15 p.m.—FROM THE STUDIO:
 Miss Freda Fish, Violin Solo.
 4.5 p.m.—Studio Music.
 4.15 p.m.—Miss Muriel Humphries, Contralto:
 "Your Done You" (Andrew).
 4.20 p.m.—FROM FARMER'S TEA ROOMS:
 Miss Anne Mills, mezzo:
 "Bing Jovous Bird" (Phillips).
 4.25 p.m.—FROM THE STUDIO:
 Musical Items.
 4.40 p.m.—FROM FARMER'S TEA ROOMS:
 Miss Dorothy Benbow, Contralto:
 "O Western World" (Arabi).
 4.45 p.m.—Stock Exchange, Third Call.
 4.45 p.m.—Miss Eilyn Martin, Soprano.
 4.50 p.m.—Studio Music.
 4 p.m.—"Big Ben" Close down.

EARLY EVENING SESSION.

- CHILDREN'S HOUR.
 5.45 p.m.—The Chimes of 2FC.
 5.50 p.m.—The "Hello Man" entertains the Children.

- 6.30 a.m.—Short time.
 6.40 a.m.—"Big Ben" and programme announcements.
 7 a.m.—"Big Ben" and programme announcements.
 7.10 p.m.—Broadbent's Markets reports (Wool, Wheat and Rice).
 7.15 p.m.—Fruit and Vegetable Markets.
 7.20 a.m.—Weather and Shipping Intelligence.
 7.25 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.45 p.m.—Programme announcements.
 7.45 p.m.—A Talk by Mr. M. A. G. Le Scoff—Section No. 2: Animal Characters, Bravery, Kindness, Co-operation in Hunting, Love and Courtesy, etc.
 8 p.m.—THE METROPOLITAN BAND, conducted by Mr. John Palmer (from the Burlington Tavern Hall):
 March "Colonial Song" (Alford).
 Fox Trot, "The More We Are Together" (Campbell).
 8.10 p.m.—Solo, Cherry, Soprano:
 "Who is Sylvia" (Hobbes).
 8.14 p.m.—THE METROPOLITAN BAND (from the Burlington Tavern Hall):
 Waltz, "The Prairie Flower" (Gosswold).
 8.24 p.m.—Solo, Cherry, Soprano:
 "Take Oh Take Thine Eyes Away" (Quilter).
 8.25 p.m.—METROPOLITAN BAND:
 Favourite "Jupiter" (Pezzi).
 8.35 p.m.—Raymond Ellis, Eminent English Pianoforte, in a group of English Numbers:
 (a) "Drink to Me Only" (Quilter).
 (b) "Cross and Trip It" (Handel).
 (c) "Over Here" (Aer. Wood) (Irish Famine Song).
 (d) "My Levels Colla" (Wilbert).
 8.53 p.m.—THE METROPOLITAN BAND:
 Selection, "Toreador" (Carrara).
 9.5 p.m.—Duo, Cherry, Soprano:
 (a) "Where the Bee Sings" (Arne).
 (b) "Linden Lea" (Williams).
 9.14 p.m.—THE METROPOLITAN BAND:
 Song No. "Moonlight on the Ganges" (Meyer).
 9.30 p.m.—Ella Price, Entertainer:
 "Two Cases of 'Fla' (Quaid).
 9.35 p.m.—Alexander Svernytsky, Pianist:
 "Variations in G Minor" (Beechey).
 9.45 p.m.—THE METROPOLITAN BAND:
 Selection, "Old Parrot" (Rinow).
 9.45 p.m.—Raymond Ellis, English Pianoforte:
 "Vision Furtiva" (Massenet).
 9.55 p.m.—Ella Price, Entertainer:
 "Comments on Missions; Laughing and Things in General" Hillings.
 10.0 p.m.—Alexander Svernytsky, Pianist:
 (a) "Fantasy in D Minor" (Mozart).
 (b) "Jamboritz" (Ramus-Godowski).
 10.10 p.m.—Wally Baines, Comedian.
 10.20 p.m.—Dance Music.
 10.30 p.m.—Miss Wally Baines, Comedian.
 10.45 p.m.—Dance Music.
 10.45 p.m.—Late news and announcements.
 11 p.m.—"Big Ben". Dance music until 11.15.
 11.15 p.m.—National Anthem.
 Close down.

2BL, SYDNEY.

Tuesday.

EARLY MORNING SESSION.

- 7 a.m.—G.P.O. Clock and Chimes.
 Metropolitan Weather Forecast.
 7.5 a.m.—Weather, Rainfall, Temperatures.
 7.4 a.m.—Ocean Report.
 7.4 a.m.—News service from the "Daily Telegraph".
 7.4 a.m.—Fruit Market report.
 7.15 a.m.—Vegetable Market report.
 7.30 a.m.—Australian Merchandise Land and Finance Co.'s report.
 7.4 a.m.—Daily Farm Produce Market report.
 7.55 a.m.—Postally Review report.
 7.55 a.m.—G.P.O. Clock and Chimes.
 Musical Programme from the Studio.
 7.57 a.m.—News from the "Daily Telegraph."

The Pilot *10-1 Double Calibrated Vernier Dial*

THE PILOT KILOGRAD

Only
6/9



Operates
both
ways,
clockwise
and
anti-
clockwise

Shows the Way to Better Tuning
Tone Quality — Volume Control

Bring Your Set Up-to-date



The only real advance claimed by the makers of this year's best Sets is improvement in tone performance. This improvement can be made in your present Set by simply adding the Centralab Modu-Plug. It replaces the loud speaker plug and gives any degree of tone volume, from a whisper to full strength, by simply turning the small knob on the plug. It reduces interfering noises and gives faithful reproduction.

No. 1410, RESISTANCE.

2 stage Amplifier £2/5/-

No. 1400 RESISTANCE.

3 stage Amplifier £3/3/-

No. 1450 RESISTANCE.

Amplifier Kit £2/14/-

IF YOUR DEALER DOES NOT YET STOCK THESE PARTS, WRITE TO US DIRECT,
SOLE DISTRIBUTORS:

United Distributors Limited

72 Clarence Street and 78 Martin Place, Sydney

343 Queen St.
BRISBANE

27 Chesser St.
ADELAIDE

26 Queen St.
PERTH

Cr. Jervois Quay & Harris St.
WELLINGTON, N.Z.

66 Charles St.
LAUNCESTON, TAS.

664 Bourke Street, MELBOURNE

7.45 a.m.—Boats in call by wireless.
 7.45 a.m.—Mail information, shipping intelligence, arrivals and departures, and port directory.
 7.55 a.m.—News service from the "Daily Telegraph."
 8 a.m.—G.P.O. Clock and Chimes.
 Close down.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and Chimes.
 Musical Programme from Studio.
 11.10 a.m.—News from the "Daily Telegraph."
 11.30 a.m.—Musical Programme from the Studio.
 11.55 a.m.—G.P.O. Clock and Chimes.
 Announcements.

11.55 a.m.—Musical Programme from the Studio.
 12.15 a.m.—Social Notes—Rapport to correspondents by Mrs. Jordan. Talk on "Teller Blues" by Mrs. Jordan.
 12 noon.—G.P.O. Clock and Chimes. Special Ocean Forecast and Weather Report.

12.30 p.m.—Musical programme from the Studio.
 12.45 p.m.—Information—Mail, Shipping, and port directory.
 2.15 p.m.—Boats in call by Wireless.

2.25 p.m.—Fruit Market report.
 2.35 p.m.—Vegetable Market report.
 2.45 p.m.—London Metal Market report.
 2.55 p.m.—Dairy and Farm Produce Market report.

3 p.m.—G.P.O. Clock and Chimes. Foreign Market reports.
 3.25 p.m.—Fruit Market report.
 3.35 p.m.—Rabbit Market report.
 3.45 p.m.—News from the "Sun."
 3.55 p.m.—Hilliers' Instrumental Quartet.
 Direction, Geryl Costing.

3.55 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun."
 4.15 a.m.—Musical Programme from the Studio.
 4.35 p.m.—Stock Exchange reports.
 5 p.m.—G.P.O. Clock and Chimes.
 Close down.

AFTERNOON SESSION.

Racing information broadcast immediately after each race by courtesy of the "Sun."
 5 p.m.—G.P.O. Clock and Chimes. News from the "Sun."
 5.15 p.m.—Civil Service Stores Trip. Direction, Miss de Courcier Pretoria.

5.30 p.m.—G.P.O. Clock and Chimes. Talks to children and Special Entertainment for Children in Hospital.
 5.45 p.m.—G.P.O. Clock and Chimes. Civil Service Stores Trip.
 4.15 p.m.—Serial Story.

4.35 p.m.—Musical programme from the Studio.
 4.45 p.m.—News from the "Sun."
 4.55 p.m.—Racing results.
 5.05 p.m.—Resume of night's programme.
 5.15 p.m.—Announcements.
 5.30 p.m.—G.P.O. Clock and Chimes.
 Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes. Uncle George and the Kiddies.
 6 p.m.—The Pupils of Miss Monica Emily will entertain the kiddies.
 6.45 p.m.—Musical programme from the Studio.

SPECIAL COUNTY SESSION.

7 p.m.—G.P.O. Clock and Chimes. Australian Mercantile, Land, and Finance Co.'s report.
 Weather Report and Forecast by courtesy of Genl. Meteorologist.
 Peonians' Distributing Society's Fruit and Vegetable Market report.
 Stock Exchange reports.
 Grain and Fodder report ("Sun").
 Dairy Produce report ("Sun").

7.15 p.m.—Country News from the "Sun."
 7.30 p.m.—Talk on "The Motor Car" by Mr. Strin.
 8 p.m.—G.P.O. Clock and Chimes.
 Broadcasters' English Chorus.

8 p.m.—Broadcasters' Light Orchestra, under direction of Mr. J. Knight Barwick.
 8.15 p.m.—Mr. H. C. Hinchcliffe Chorists.
 8.30 p.m.—Mr. Gerald Valente (Violin Solo).
 8.45 p.m.—Miss Gladys Yvonne (Soprano).
 8.55 p.m.—Mr. Stanley R. Cusick (Tenor).
 9.15 p.m.—Bassoon of Following Day's Programme.

9.15 p.m.—G.P.O. Clock and Chimes.
 Weather Report and Forecast by Courtesy of Mr. C. J. Moran, Genl. Meteorologist.

9.15 p.m.—Broadcasters' Light Orchestra.
 9.30 p.m.—Duet: Misses A. B. Cusick and H. C. Hinchcliffe.
 9.45 p.m.—Madame Betty-Violet will talk on "Rubens," with illustrations at the piano.

9.45 p.m.—Mr. H. C. Hinchcliffe.
 9.45 p.m.—Broadcasters' Light Orchestra.
 9.45 p.m.—Mr. Stanley R. Cusick.
 10.15 p.m.—Mr. Gerald Valente.
 10.45 p.m.—The Ambrosian Dance Band (conductor from the Ballroom of the Ambrosians) "Mad" waltz will be broadcast 10.45 to midnight.

12.45 a.m.—G.P.O. Clock and Chimes.
 National Anthem.

310, MELBOURNE.

Tuesday.

MIDDAY SESSION.

10 noon.—Time Signal. British Official Wireless News from Rugby. Hunter and The Australian Press Association Cablegrams and "Herald" News service.
 12.30 p.m.—JOE BRANNAN AND HIS NEWTON.

JOE BRANNAN: "Only One Word for the Day."
 IDA NEWTON: "Carnot."
 JOE BRANNAN: "Only One Word for the Day."

12.30 p.m.—STUDIO ORCHESTRA: "Orchestra in der interest" (Offshore).
 12.45 p.m.—RUBELLE CALLOW, Tenor: "An Evening" (Chorus).
 "A Little Fair Tale" (Soprano).
 12.55 p.m.—CAPTAIN DONALD MACLEOD: "Many Road" (English Roman Piece).
 1.15 p.m.—STUDIO ORCHESTRA: "Sole melodie" (Piano).

1.15 p.m.—Meteorological information, shipping and weather. Weather synopses for Victoria, Tasmania, South America, and New South Wales. Ocean Forecast. River Reports.

1.30 p.m.—WALTER SMITH, Cornet: "An Autumn Day" (Clarinet).
 1.37 p.m.—MARION LIGHTFOOT, Banjo: "Campana Corralita."
 1.45 p.m.—"The Wicket is Waiting for the Sun."
 1.50 p.m.—STUDIO ORCHESTRA: "In a Lover's Garden" (Soprano).

1.55 p.m.—RUSSELL CALLOW, Tenor: "Hunting Song" (Solo/Foxtrot).
 "A Dream" (Baritone).
 1.59 p.m.—STUDIO ORCHESTRA: "Casalero" (Jazz/Chorus).
 2 p.m.—Close down.

AFTERNOON SESSION.

2 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
 2.10 p.m.—"AU FAIT."
 2.15 p.m.—"Fashion Show."
 2.25 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
 2.35 p.m.—CARLTON CHASE: "Mind your Melodist."
 "Land of Micht Have Been."

2.45 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
 2.55 p.m.—THE D'ARCY TRIO: Melting, "My Cat's Dog" (Harp).
 Piano Solo, "Waltz in D flat" (Chorus).
 "That's All" (Drum).
 3.4 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
 3.15 p.m.—HARRY NORTH, Karth Concert Host.

3.20 p.m.—"Herald" news service. Stock Exchange Information.
 3.30 p.m.—Close down.

3.45 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
 3.55 p.m.—CARLTON CHASE: "The Road to Heaven Story."
 "Red Hot Mama."
 4.05 p.m.—JOE ARONSON AND HIS SYMPHONISTS.

4.15 p.m.—"Herald" news service. Stock Exchange Information.
 4.30 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

6.30 p.m.—Message to Letters and Birthday Wishes.
 6.35 p.m.—HARRY NORTH, Concertino: Cain Catcher.
 6.45 p.m.—"MARY GUMLEAF": Poems, "Sisters," "Fugitive."
 Music for the Littlest Ones.
 "Jumbo Junior's Picnic."
 6.55 p.m.—"MIDNIGHT SHOW": Songs at the Piano.

6.55 p.m.—"A FAIR PLAY": "LOST HEARTS": Cast.
 Fairy Queen Gwen Hall
 Fairy Blue Bell Ellen Howell
 Cupid Ellen Howell
 Fairy Queen Lindy McMath
 Prince Charming Lyla Bessell
 Princess Darling Dorothy Bethune
 Scene.

7 p.m.—A Glade in the Forest.
 7.05 p.m.—Official Report of Newmarket Stock Sales. Report on Sheep and Lambs.
 7.20 p.m.—"Herald" news service. Weather synopses. Shipping information.
 7.45 p.m.—Fruit Market reports by J. R. Bennett Ltd. Rabbit reports.
 7.55 p.m.—Market prices by the Victorian Producers' Cooperative Co. Ltd. Dairy Produce. Potatoes and Vegetables. Poultry. Grain. Straw. Hay and Jute.

7.55 p.m.—Fruit Market reports by the Victorian Wholesale Fruit Growers' Association, compiled by "The Fruit World" exclusive to 310.

NIGHT SESSION.

7.15 p.m.—MR. E. McMICKEK, City Librarian, Preface: "The Last Words of Great Men."
 7.25 p.m.—Under the Auspices of the U.N.I. VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."

7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."
 7.45 p.m.—Under the Auspices of the VICTORIA VETERANS BOARD, HON. ST. RICHARDS will speak on "Epitaph of Public Speakers."



The Wonderful Brandola.

Brandes reproducers are ably represented by the Brandola. The Brandola has a non-resonant horn made of wood pulp, with a superb reproducing unit, mounted on a highly polished mahogany base.

£4 - 10 - 0

Acoustics by

Brandes

means the ultimate in reproduction

INTERNATIONAL RADIO CO. LTD.

200 CASTLEREAGH STREET, SYDNEY

10.45 p.m.—RUSSELL CALLOW, Tenor: "From the Land of the Sky Blue Water" (Caldman).
 "I Did Not Know."
 10.51 p.m.—VICTORIAN POLICE BAND: Selection: "Classic Gems."
 11.1 p.m.—OUR GREAT THOUGHT: "I believe that obstinacy, or the dread of control and discipline, arises not so much from self-williness as from a conscious defect of voluntary power; as foolishness is not seldom the disguise of conscious timidity."
 11.4 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
 11.49 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Tuesday.

MORNING SESSION.
 11 a.m.—G.P.O. Clock says "ELEVEN."
 11.45 a.m.—Brunswick Patanopore Concert.
 12.00 a.m.—British Official Wireless News from Rugby Super Wireless Station, England, at 11.30 this morning. Express train information. "The Age" News bulletin.
MIDDAY SESSION.
 12 noon.—G.P.O. Clock says "TWELVE."
 12.1 p.m.—First Weather Forecast, "The Age" Sport Calendar.
 12.5 p.m.—Miss Emily Noble (by courtesy of Metropolitan Ice Company). Special talk on skating.
 12.59 p.m.—Studio Concert.
 1.30 p.m.—"The Age" Stock Exchange report. Market reports. Mail notices. Shipping movements.
 1 p.m.—Close down.

MATINEE SESSION.
 "ORCHESTRA CONCERT."
 2.30 p.m.—STUDIO ORCHESTRA. (Direction: Ronald Bressley).
 3.44 p.m.—Songs (Baritone), David Vaughan.
 3.52 p.m.—STUDIO ORCHESTRA.
 3.57 p.m.—Cello Solo: Ronald Bressley.
 4.10 p.m.—STUDIO ORCHESTRA.
 4.24 p.m.—Songs (Baritone), David Vaughan.
 4.31 p.m.—STUDIO ORCHESTRA.
 4.36 p.m.—Songs (Soprano), Alma Nielsen.
 4.44 p.m.—STUDIO ORCHESTRA.
 4.53 p.m.—Second Weather Forecast.
 4.56 p.m.—STUDIO ORCHESTRA.
 4.59 p.m.—Songs (Soprano), Alma Nielsen.
 5.03 p.m.—STUDIO ORCHESTRA.
 5.13 p.m.—Tonight's Amusement Guide.
 5.20 p.m.—G.P.O. Clock says "FIVE."
 Close down.

CHILDREN'S SESSION.
 6.45 a.m.—Uncle Mac's Entertainment."
EVENING SESSION.
 7.45 p.m.—British Official Wireless News. Maczanna's Market reports.
 8 p.m.—G.P.O. Clock says "EIGHT."
 8.1 p.m.—Songs (Baritone), John Fraser. "I'll be Hoping You'll Remember" (Clarke). "Elek" (Saxson).
 8.5 p.m.—Violin Solo, Master Eric Chaffinor: "Are Maria" (Beethoven).
 "Minotti" (Beethoven).
 9.15 p.m.—Songs (Soprano), Beatrice Oakley. "The Robinaura" (White). "Three Green Bunches" (Hawkefield).
 9.22 p.m.—Radio Play: "The Young Men" (Gwynne).
 Mrs. Larimer (a widow), Audrey Anderson Nancy (her daughter), Wingle Thornton. Scene: Nancy's den at her mother's house in the country.

9.37 p.m.—Comedy, Laurie Hill: "When I Get My Bohemian Blind on" (Stanley Allen).
 "The Kax" (Reynolds).
 9.48 p.m.—Piano Solo, Harold Court: "Friedrich" (Beethoven).
 "Cleric in Blue" (Delius-Fremont).
 9.52 p.m.—Entertainer, Margaret Kerr: "Eight Minutes of Grief and Pain" with Margaret.
 "Mrs. Murphy on Honesty" (Dunn).
 9 p.m.—Songs (Baritone), John Fraser: "Farewell in the Desert" (Adams). "I Heard You Singing" (Caldan).

9.8 p.m.—Violin Solo, Master Eric Chaffinor: "Salut d'Amour" (Elgar).
 "Caconnetta" (D'Amico).
 9.16 p.m.—Songs (Soprano), Beatrice Oakley. "My Heart's Desire" (Grieg).
 "Al Davening" (Caldan).
 9.23 p.m.—Humorist, Miss E. W. Syme. Under the Auspices of the Arts and Crafts Society of Victoria, Miss E. W. Syme will discuss interestingly, "Wood Cuts."
 9.28 p.m.—Comedy, Laurie Hill: "That Luteshire Jazz Band" (Williams). "Twelve" (by himself).
 9.45 p.m.—Piano Solo, Harold Court: Mendelssohn's Songs without words: "The Hunting Song."
 "The Spring Song."
 "The Spinning Song."
 9.53 p.m.—Entertainer, Margaret Kerr: Something interesting from Milton Hayes' writings on Monte the musical lat. "You Know What I mean."
NOTE.—The personal accompanists tonight are: Mr. Harold Court and Madam Vera Wilson.
 10 p.m.—G.P.O. Clock says "TEN."
 10.1 p.m.—"The Age" news bulletin.
 10.6 p.m.—Dance Hour, Leggett's Ballroom: "Dancing" (Harrison). Harry Nanzel.
 11 p.m.—G.P.O. Clock says "ELEVEN."
 GOD SAVE THE KING.

4QG, BRISBANE.

Tuesday

MIDDAY SESSION.
 1 p.m.—Market reports, weather information. "The Daily Mail" and "The Daily Standard" news.
 FROM HOTEL CARLTON.
 1.29 p.m.—Lunch music played by Hotel Carlton Symphony Orchestra.
 FROM THE OBSERVATORY.
 1.54 p.m.—Standard time signal.
 2 p.m.—Close down.

AFTERNOON SESSION.
 A PROGRAMME OF MUSIC FROM THE STUDIO.
 3.39 p.m.—Duo Art selection. "Fifth Nocturne" (Lombardi). Aeolian Vocal selection—(a) corset solo, "The Bachelor" (Noel). Trumpet-Major H. N. Hysman. (b) violin solo, "On Wings of Song" (Mendelssohn). Miles Lusk: Duo Art Selection, "Sonata" (Beethoven). Aeolian Vocal selection—(a) tenor solo, "On with the Motley" (Lombardi). Mr. Hardy Williamson. (b) tenor solo, "You've Got Those Wango Go Back Again Blues" (Pitt). Duo Art and his Band: Duo Art selection, "La Boheme" (Puccini). Aeolian Vocal selection—(a) bass solo, "Good Fellow" (Phillips). Mr. Malcolm McEachern. (b) soprano solo, "Toccata's Prayer" (Puccini). Miss Kathleen Deatonnell: Duo Art selection, "Mazurka in B-Flat Minor" (Chopin).
 4.17 p.m.—"Telegraph" news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.
 5 p.m.—"Daily Standard" news; announcements.
 5.50 p.m.—"The children's session: Stories by Uncle Ben and Uncle Jim."
 7 p.m.—Market reports; stock reports.
 7.30 p.m.—Weather news; announcements.
 7.48 p.m.—Standard time signal.
 7.45 p.m.—Lecturer, "Photography," Mr. F. L. South (Manager, Kodak, Ltd.).

NIGHT SESSION.
 BRISBANE APOLLO CLUB.
 FROM THE STUDIO: OPERA ARTS.
 8 p.m.—Choral selection—(a) "Marching Along" (Lantock); (b) "Invention of Harmony" (Wassmann); (c) "Good-night, Good-night" (Grieg). (d) "Ode of the Norseman" (Maunders), the Brisbane Apollo Club (conductor, Mr. Leonard French).

STUDIO CONCERT.
 8 (a) piano—Overture, "Morning, Noon and Night" (Sime). (b) Studio Instrumental Quartette (conductor, Mr. P. Smith); soprano solo, "Three Fishers Went Fishing."

Miss Jill Marjory (soprano), "The Ordeal" (Aron). Mr. H. Humphrey: tenor solo, selected. Mr. J. Fawcett thought for tonight, "Maiden's Prayer" (W. H. Lister); soprano solo, "The Ship of Arcades" (Head). Miss Renee Hanners: ten minutes of music by the Malheur Duo; Hawaiian instrumental solo, the Kahala Trio; soprano solo, "I See a Church at Eves" (Caldan). Miss Ruth Purcutt: clarinet solo, "Showers of Gold" (Beaulieu). Mr. R. Gagon (accompanist) by the Studio Instrumental Quartette.
 9 (a) m.m.—Metropolitan weather forecast; monologue, "Home, Sweet Home" (Brewer). Mrs. Albert Foster: soprano solo, "The Cuckoo" (Lohmeyer). Miss Renee Hanners: Hawaiian instrumental solo, the Kahala Trio; soprano solo, "A Kiss in the Dark" (Phillips). Miss Jill Marjory: violin solo, "La Clairvoyante" (Gabriel-Marie). Mr. L. Bevanant (accompanist) by the Studio Instrumental Quartette; tenor solo selected, Mr. J. Lang. Hawaiian instrumental solo, the Kahala Trio; monologue, "Last" (A. E. Patterson). Mr. H. Humphrey, march, "The New Arrival" (Strad). The Studio Instrumental Quartette.

DANCE MUSIC.
 FROM THE CENTENNIAL HALL:
 9.30 p.m.—Dance Music.
 10 p.m.—"The Daily Mail" news; weather news.
 Close down.

5CL, ADELAIDE.

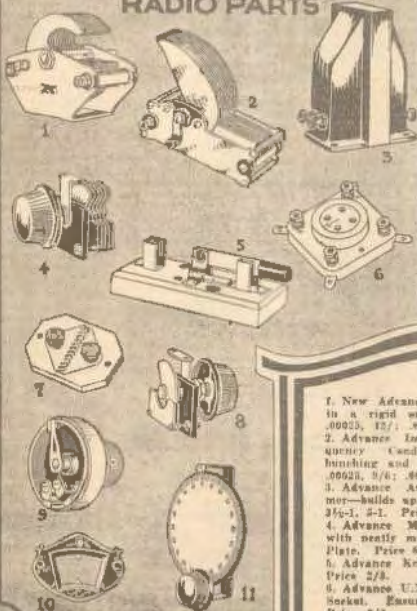
Tuesday.

MORNING SESSION.
 12 noon.—G.P.O. chimes.
 12.1 p.m.—Musical selection.
 12.30 p.m.—"Advertiser" news service.
 12.50 p.m.—Market reports.
 1 p.m.—G.P.O. chimes.
 1.11 p.m.—Musical selection.
 2 p.m.—G.P.O. chimes and close down.

AFTERNOON SESSION.
 2 p.m.—G.P.O. chimes.
 2.1 p.m.—Relay from Maple Leaf Cafe—Orchestral selections.
 2.19 p.m.—Talk by the Rev. G. H. Hale, D.A.
 4 p.m.—G.P.O. chimes.
 4.1 p.m.—Relay from the Arcadia Cafe—Orchestral selections.
 4.45 p.m.—Station announcements.
 5 p.m.—G.P.O. chimes and close down.

EVENING SESSION.
 6 p.m.—G.P.O. chimes.
 6.1 p.m.—Dinner music by Covent Garden Restaurant Orchestra.
 6.45 p.m.—Bestime stories.
 7.05 p.m.—Market reports.
 7.40 p.m.—Home beautiful talk by "Denon."
 8 p.m.—G.P.O. chimes.
 8.1 p.m.—Song, Mr. Jas. Barrett.
 8.2 p.m.—Solo by the Herald Brass Band.
 8.25 p.m.—Song, Miss Kay Miller.
 8.37 p.m.—Recitation, Miss Pauline Abraham.
 8.45 p.m.—Song, Mr. Cyril Bradley.
 8.55 p.m.—Herald Brass Band.
 9 p.m.—G.P.O. chimes.
 9.1 p.m.—Weather report.
 9.15 p.m.—"Daisy's" news report.
 9.3 p.m.—Song, Mr. Jas. Barrett.
 9.37 p.m.—Recitation, Miss Pauline Abraham.
 9.45 p.m.—Song, Miss Kay Miller.
 9.53 p.m.—Recitation, Miss Pauline Abraham.
 9.59 p.m.—Song, Mr. Cyril Bradley.
 10 p.m.—Herald Brass Band.
 10.10 p.m.—G.P.O. chimes.
 10.15 p.m.—"Advertiser" news service.
 10.18 p.m.—Song, Mr. Jas. Barrett.
 10.25 p.m.—Song, Miss Kay Miller.
 10.30 p.m.—Tenor solo, Mr. L. J. Miles.
 10.34 p.m.—Fourth story solo, Mr. H. Hunt.
 10.40 p.m.—Song, Mr. J. Miles.
 10.44 p.m.—Pianoforte solo, Mr. Lawrence Taggart.
 10.50 p.m.—Fourth organ solo, Mr. E. Ingh.
 10.52 p.m.—Tenor solo, Mr. L. J. Miles.
 10.54 p.m.—Fourth organ solo, Mr. E. Ingh.
 11 p.m.—G.P.O. chimes and close down.

-ADVANCE-
All Australian
RADIO PARTS



A Good Set
deserves the
Best Parts

Ask
for
ADVANCE
Parts

"Better Parts for Low Money"—that is
our slogan. Think, Buy and always use
"Advance" Radio Parts. They are the
best Australia—or the world—produces!

-ADVANCE-
All Australian
RADIO PRODUCTS

1. New Advance "Centralign" Condenser in a rigid one-piece aluminium frame. 50023, 12/; 50024, 12/; 50025, 12/; 50026, 12/.
2. Advance Improved Straight-Line Frequency Condenser—eliminates station bunching and increases selectivity. 50027, 2/6; 50028, 10/; 50029, 10/6.
3. Advance Audio Frequency Transformer—builds up volume. In ratios of 2-1, 3½-1, 4-1. Price 17/6.
4. Advance Midget Condenser, finished with neatly moulded Bakelite Knob. 11-Plate. Price 4/6.
5. Advance Knife Switch with Arrestor. Price 2/8.
6. Advance U.X. or U.V. Porcelain Tube Socket. Ensures perfect insulation. Price 1/8.
7. Advance Lightning Arrestor. Passed by the Melbourne University and Fire Underwriters' Association. Price 2/6.
8. Advance Neutralising Condenser. Correct capacity for neutralising and balancing. 3-plate. Price 4/8.
9. Advance Rheostat. Gives smooth control and a perfect resistance. Made in 5, 10, 20 and 30 ohms. Price 3/.
- 10 and 11. Advance Ear Panel Mounting Vernier Dial. The neatest you've seen. Price 7/6.

Manufactured by
RADIO CORPORATION OF
AUSTRALIA PTY. LTD.
McDermott—Sydney
Adelaide—Brisbane.

WHOLESALE DISTRIBUTORS:

FOX & MACGILLYCUDDY LTD.
DAILY TELEGRAPH BLDGS., SYDNEY

HARRINGTONS LTD.
GEORGE ST., SYDNEY

HAVE YOU SEEN THE

ADVANCE

RANGE OF COIL KITS?

See Them at Your Nearest Dealers.



OVER THE TOAST

Crisp brown toast with the butter sizzling on it, and more pieces nestling on the glowing bars of the electric toaster—oh what a winter morning luxury!

And just there I fell—heavily! My wife remarked in a sweet loving voice, which would have instantly put me on my guard if I had not been full of hot toast.

"What a wonderful thing it is that we can just click on the toaster and then eat."

"You bet it is!" I mumbled, my mouth full and my heart without suspicion.

"Wouldn't it be lovely, dear, to be able to switch our radio on to the electric light and get rid of all our 'B' Batteries?"

I had now something was up and I replied with a cold shiver down my back that no doubt some day someone would invent such a thing.

"Why isn't it wonderful, sweetheart, that your friends, the New System Telephones people have just introduced the Acme Eliminator which you can just switch on like you do toast! Just read this interesting story about it."

I had no defence, no excuse, no hope of staying her off. Every woman who uses an electric iron, an electric toaster or an electric vacuum cleaner will insist on these Acme Eliminators.

For the rest of my breakfast I heard nothing but "pure silent power," "inexhaustible reserve," "only a few pence a month," "a revolution in radio," etc. etc.

With my hot toast feeling like lead inside me, and a hopeless feeling that I was lost, I went into 280 Cantleburgh Street, Sydney, and listened to an Acme Eliminator.

I came out rejuvenated, joyful, lighter in pocket and in spirits, bearing with pride and care the very latest and best idea in modern wireless.

Bless that hot toast!

GWF, PERTH.

Tuesday.

- 12.30 p.m.—Time in.
 12.35 p.m.—First Local News Bulletin; Market Report; Cables; News by courtesy of "The West Australian" Newspaper Co.
 1.0 p.m.—Time Signal from Perth Observatory.
 1.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
 1.3 p.m.—Studio Instrumental Trio.
 1.30 p.m.—Close Down.
 1.35 p.m.—Time in.
 1.45 p.m.—Musical Programme, including Wanderoo Sketches by Miss Evelyn Willis, A.R.C.M.
 4.0 p.m.—Studio Instrumental Trio.
 4.30 p.m.—Close Down.
 6.45 p.m.—Time in.
 6.50 p.m.—Stories for Tiny Tots by Auntie Marion.
 7.5 p.m.—Uncle Leslie will talk to the Boys.
 7.50 p.m.—Stock and Share Intelligence; Market Report; Cables; News by courtesy of "The West Australian" Newspaper Co.
 7.45 p.m.—Talk.
 8.0 p.m.—Time Signal from Perth Observatory.
 8.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
 8.2 p.m.—Concert from the Studio: Miss Marcia Hodges, Soprano; Miss Lucie Jennings, Elocutionist; Mr. Harold G. Noutie, Baritone; Miss G. Sharp, Violinist.
 8.30 p.m.—Notes of the Soprano, Elocution, Baritone and Violin Sections of the W.A. Histedford Competitions.
 10.0 p.m.—The "Daily News" Newspaper Co.; News within Range Announcement; Weather Report and Forecast.
 10.10 p.m.—Close Down.

Wednes., June 29

2FC, SYDNEY

- EARLY MORNING SESSION.
 7 a.m.—"Big Ben" and announcements.
 7.5 a.m.—Studio Music.
 7.15 a.m.—COUNTRY SESSION: Official News; Forecast; Rainfall; Temperatures; Astronomical Memoranda; Shipping Intelligence; Mail services.
 7.25 a.m.—Investment Market, Mining Share Market, Metal Quotations.
 7.35 a.m.—Wool Sales, Breadstuffs Markets, Inter-State Markets, Produce Markets.
 7.45 a.m.—"Sydney Morning Herald" summary.
 8 a.m.—"Big Ben." Close down.

- MORNING SESSION.
 10 a.m.—"Big Ben" and announcements.
 10.5 a.m.—Studio Music.
 10.55 a.m.—"Sydney Morning Herald" news service.
 10.20 a.m.—Studio Music.
 10.35 a.m.—A Reading.
 10.45 a.m.—Studio Music.
 11 a.m.—"Big Ben" Marching Music for School Children.
 11.5 a.m.—A.P.A. and Reuter's Cable Service.
 11.10 a.m.—Studio Music.
 11.15 a.m.—A Talk on Home Cooking and Recipes, by Miss Kath Faust.
 11.30 a.m.—Close down.

- MIDDAY SESSION.
 12 noon—"Big Ben" and announcements.
 12.2 p.m.—Stock Exchange first call.
 12.3 p.m.—Official Weather Forecast, rainfall.
 12.45 p.m.—Studio Music.
 12.5 p.m.—Summary of "Sydney Morning Herald" news service, Rugby Wireless news.
 12.55 p.m.—Studio Music.
 1.00 p.m.—Marching music for School Children.
 12.40 p.m.—Miss Gladys Aubin, Soprano.
 12.45 p.m.—Studio Music.
 1 p.m.—"Big Ben." Weather Intelligence.

- 1.3 p.m.—"Evening News" Midday News service. Producers' Distributing Society's request.
 1.20 p.m.—Studio Music.
 1.28 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching Music.
 1.38 a.m.—Miss Gladys Aubin, Soprano.
 1.45 p.m.—Studio Music.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and announcements.
 2.5 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA:
 Conductor, Mr. Frederick Leighton.
 2.15 p.m.—A Studio Reading.
 3.25 p.m.—FAITH MAREAU, Soprano:
 "In Norley Wood" (Brake).
 3.35 p.m.—Marching Music for School Children.
 3.40 p.m.—May Craven, Soprano (from Farmer's Oak Hall):
 "Kerry Dance" (Molloy).
 3.45 p.m.—THE WESTWORTH SYMPHONIC DANCE ORCHESTRA:
 Conductor, Mr. Frederick Leighton.
 3.55 p.m.—Eileen Jenkins, Soprano:
 "The Music Jockey Place" (d'Harbel).
 4 p.m.—Eileen MOREAU, Soprano (from Farmer's Tea Rooms):
 4.5 p.m.—A Talk.
 4.15 p.m.—Faith Malby, Soprano:
 "The Foot's Life" (Lionel Monkton).
 4.25 p.m.—May Craven, Soprano, (from Farmer's Tea Rooms):
 "The Carnival" (Molloy).
 4.35 p.m.—Studio Music.
 4.38 p.m.—Eileen Jenkins, Soprano:
 "The Waters of Minnetonka" (Lionel Monkton).
 4.45 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA:
 Conductor, Mr. Frederick Leighton.
 4.40 p.m.—EILEEN MOREAU, Soprano (from Farmer's Tea Rooms).
 4.45 p.m.—Stock Exchange, third call.
 4.55 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA:
 Conductor, Mr. Frederick Leighton.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of 2FC.
 5.50 p.m.—The "Hello Man" Talks to the Children.
 6.15 p.m.—Uncle Gus and "Jerry" in a few merry wags with the young folk.
 6.30 p.m.—Story time.
 6.40 p.m.—Dinner Music.
 7 p.m.—"Big Ben." Late Sporting news, "Whet and Sock".
 7.10 p.m.—Fruit and Vegetable Markets.
 7.20 p.m.—Weather and Shipping Intelligence.
 7.30 p.m.—Late "Evening News" sport section.

NIGHT SESSION.

- 7.50 p.m.—Studio Music.
 8 p.m.—THE LYRIC WINTER GARDEN THEATRE ORCHESTRA, George Street, Sydney.
 Jimmy Eikin's Jazz Band, with the Grand Organ.
 8.15 p.m.—NOEA HILL, Irish Soprano:
 "Has Sorrow Thy Young Days Shaded" (McCree).
 8.18 p.m.—HARRY BROWN, Cornet Solo:
 "Favorite".
 8.24 p.m.—George Verra, Baritone:
 "Be Brave and Smile" (Pepper).
 8.30 p.m.—THE LYRIC WINTER GARDEN THEATRE ORCHESTRA:
 Jimmy Eikin's Jazz Band with the Grand Organ.
 8.40 p.m.—Sarah Hill, Irish Soprano:
 "The Pines of Fan" (Lionel Monkton).
 8.45 p.m.—Harry Brown, Cornet Solo:
 "Believe Me It Ain't" (Holmes).
 8.48 p.m.—George Verra, Baritone:
 "Tommy Lad" (Margaret).
 8.55 p.m.—Captain Frank Hurley:
 In continuation of his adventure talks will give the story of
 THE MAWSON EXPEDITION
 prior to which he will announce the winners of his last Sound Competition, and give details of a new one.

10.30 p.m.—THE LYRIC WINTER GARDEN ORCHESTRA:

Jimmy Ehkin and his Jazz Band, with the Grand Organ.

10.25 p.m.—North Hill, Irish Soprano:

10.4 p.m.—Harry Brown, Cornet Solos:

(a) "The Boney" (Meyn).

(b) "Sing Me to Sleep" (Greene).

10.16 p.m.—Alice Prowse, Contralto:

(a) "Tudor Haze" (Henderson).

(b) "Sing a Song of Sixpence" (Brack).

10.14 p.m.—George Venners, Baritone:

(a) "Duelist" (Parker).

(b) "Kilhearer's Horse" (Anderson).

10.11 p.m.—THE LYRIC WINTER GARDEN THEATRE ORCHESTRA:

Jimmy Ehkin's Jazz Band with the Grand Organ.

10.32 p.m.—Alice Prowse, Contralto:

(a) "Ship of Awoody" (Kend).

(b) "I Have Twelve Goss" (Hedgcock).

10.30 p.m.—The Wentworth Symphonic Dance Orchestra:

Conductor, Mr. Frederick Lightfoot.

10.18 p.m.—Celebrity Records, (from the Studio).

10.57 p.m.—Late news and announcements.

11 p.m.—"Big Ben."

The Wentworth Symphonic Dance Orchestra.

11.14 p.m.—National Anthem.

Close down.

2BL, SYDNEY.

Wednesday.

EARLY MORNING SESSION.

7 a.m.—G.P.O. Clock and chimes, Metropolitan Weather forecast.

7.4 a.m.—State weather report.

7.45 a.m.—Ocean forecast.

7.50 a.m.—News service.

7.55 a.m.—Fruit Market Report.

7.58 a.m.—Vegetable Market Report.

7.59 a.m.—K.M.L. & F. Cofe Report.

7.54 a.m.—Dairy Farm Produce Market report.

7.58 a.m.—Poultry Market Report.

7.59 a.m.—G.P.O. Clock and chimes—Musical programme from studio.

7.57 a.m.—News service.

7.42 a.m.—Boats in call by wireless.

7.44 a.m.—Mail information, Shipping arrivals and departures and Post directory.

7.45 a.m.—News service.

8 a.m.—G.P.O. Clock and chimes, Close down.

MORNING SESSION.

11 a.m.—G.P.O. Clock and chimes, Musical programme from the studio.

11.15 a.m.—Talk on "Basket Ball" by Miss Varley, Broadcaster, Women's Sport Authority.

Social Notes—Replies to correspondence by Miss Jordan. Talk on "Dental Hygiene" by a member of Dental Board.

AFTERNOON SESSION.

2 p.m.—G.P.O. Clock and chimes, Special Ocean forecast and weather report.

2.1 p.m.—Musical programme from the studio.

2.15 p.m.—Information—Mail, Shipping and Post directory.

2.14 p.m.—Boats in call by wireless.

2.20 p.m.—Fruit Market Report.

2.22 p.m.—Vegetable Market Report.

12.24 p.m.—London Metal Market Report.

12.35 p.m.—Dairy and Farm Produce Market report.

12.30 p.m.—G.P.O. Clock and chimes, Foreign Market report.

12.32 p.m.—Fish Market report.

12.34 p.m.—Rabbit Market Report.

12.36 p.m.—News from the "Sun."

12.35 p.m.—Hilber, Instrumental Quartet—direction, Daisy Carting.

1.30 p.m.—G.P.O. Clock and chimes, News from the "Sun."

1.47 p.m.—Musical programme from the studio.

1.47 p.m.—Stock Exchange report.

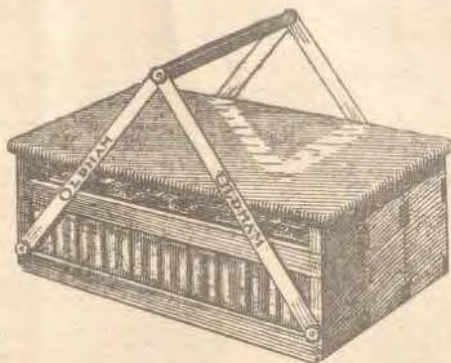
2 p.m.—G.P.O. Clock and chimes.

Having information broadcast immediately after each hour, by courtesy of the "Sun."

Musical programme from the studio.

2.19 p.m.—Reading Resumes.

2.19 p.m.—News from the "Sun."



The only portable H.T. Accumulator

WE have pleasure in announcing that we have just landed, ex the s.s. "Essex," a large shipment of **OLDHAM HIGH TENSION ACCUMULATORS**, and a further shipment is due by the "Demodocus," on the 27th instant, with others to follow. As these shipments are being booked up quickly, you are invited to place your orders early to save disappointment.

WRITE FOR ILLUSTRATED PAMPHLET

Tapped at every two volts.

In 50-volt units, each cell can be tapped. For mixed low-voltage reception, this is essential. Grid lines also available from the same accumulator.

Long Life Special Activation Process.

Standard Oldham S.A.P. plates are used to ensure long life. Plates will not break or distort. Plates can be left idle over long periods without recharging.



View showing short glass cells arranged in row, tapped at each a volt.

Compact and Portable.

Fitted with stout carrying handle. Each set-out and supplied with 1000 standard cells for personal accumulation of fuel.

1/6 per volt

50 volts	...	£4 10 0
80 volts	...	£6 0 0
100 volts	...	£7 10 0
120 volts	...	£8 0 0

Sole Agents, **NOYES BROS. (Sydney) LTD.**, 115 Clarence Street, And at Melbourne, Brisbane, Newcastle, Adelaide, Perth and Hobart

Special Activation Process

OLDHAM

ACCUMULATORS



No. R1275.
Hanging Type
Diameter of
Head 15-ins.

The sweetest music in the world

If you want a beautiful thing to admire while you enjoy music of pure mellow beauty, you want the Sterling Mellovox, the newest gift of creative genius in radio. It is made in two colour combinations of blue or brown with gold floral design. A hinged connection enables the sound to be projected in any desired direction.

STERLING MELLOVOX LOUD SPEAKER

PRICE:

65/-

No. R1277
Table Type
Height
over all,
26-ins.
Diameter
of Head
15-ins.



Representative:

A. COLLINS

Room 12, 5th Floor.

Daily Telegraph Buildings
SYDNEY, N.S.W.

Agents: LAWRENCE & HANSON, 33 York St.

2.25 p.m.—Operatic talk by Mr. G. A. Boudier.
3.0 p.m.—G.P.O. Clock and chimes. News from the "Sun."
3.15 p.m.—Musical programme from the studio.
3.30 p.m.—G.P.O. Clock and chimes. Talk to children and special entertainment for Children in Hospital.
4.0 p.m.—G.P.O. Clock and chimes. Musical programme from studio.
4.15 p.m.—Serial Story.
4.35 p.m.—Musical programme from the studio.
4.50 p.m.—News from the "Sun."
5.00 p.m.—Racing Resumé.
5.22 p.m.—Resumé of night's programme.
5.34 p.m.—Announcements and What's on?
5.48 p.m.—Special Ocean Forecast.
6.0 p.m.—G.P.O. Clock and chimes. Close down.

RARELY EVENING SESSION.

6.45 p.m.—G.P.O. Clock and chimes. Duddy Longlegs and the Kiddies.
8.10 p.m.—Musical programme from the studio.

SPECIAL COUNTRY SESSION.

7.0 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co.'s report.

Weather report and forecast by courtesy of Govt. Meteorologist.
Producers' Distributing Society's Fruit and Vegetable Market report.
Stock Exchange reports.

Grain and Fodder report ("Sun").
Dairy Produce report ("Sun").

1.15 p.m.—Country news from the "Sun."
1.30 p.m.—Talk by a member of the St. John Ambulance Brigade.

8.0 p.m.—G.P.O. Clock and chimes.
Broadcaster's Topical Chorus.

8.3 p.m.—The H. W. Farra company present a comedy entitled "A Pair of silk stockings" by Carl Harcourt.

10.15 p.m.—See "Moorium and his Glom" when broadcast from the ball room of the Bondi Casino. Dancing intervals between dances "Sun" news will be broadcast.

11.00 p.m.—G.P.O. Clock and chimes.
National Anthem.

2GB, SYDNEY

Wednesday.

MORNING SESSION.

7.0 a.m.—Music.
7.15 a.m.—"Oberlin" Talk.
7.35 a.m.—Music.
7.55 a.m.—Psychological Class.
8.20 a.m.—Music.
8.45 a.m.—Health and Diet.
10.0 a.m.—Close down.

AFTERNOON SESSION.

2.30 p.m.—Music.
2.45 p.m.—Talk.
3.00 p.m.—Music.
3.15 p.m.—Talk.
3.30 p.m.—Music.
4.45 p.m.—Close down.

EVENING SESSION.

6.30 p.m.—Children's Session.
7.0 p.m.—Music.
7.15 p.m.—Address by Mr. Harold Merice.
7.35 p.m.—Benediction of the Most Holy Sacrament.
7.40 p.m.—Talk.
7.45 p.m.—Songs by ELSIE BROWN:
1. "Cherry Ripe" (Horn).
2. "The Valley of Laughter" (Sanderson).
7.50 p.m.—Address.
8.20 p.m.—Violin Solo by DAN SCULLY:
1. "Andante" (Lalo).
2. "Ocher Romanesque" (Kreisler).
8.25 p.m.—CLEMENT HOKING QUARTET:
1. "Rich and rare were the Gems."
2. "The Meeting of the Waters."
3. "The Little bandoneon."
ELSIE BROWN, EVA CROFT, THOMAS HALL, CLEMENT HOKING.
8.45 p.m.—Duets for two Violins, with Piano accompaniment.
DAN SCULLY, MONICA HORDER, ADA BROOK.
8.50 p.m.—Songs by CLEMENT HOKING:
1. "The Song of the New" (Lybrand).
2. "The Floral Dance" (Katie Mead).

9.0 p.m.—Talk.
9.15 p.m.—Violin Solo by MONICA HORDER.
1. "Adagio."
2. "Tombourin."
9.35 p.m.—CLEMENT HOKING QUARTET:
1. "O Rock, how my Baby."
2. "Hail, Heavenly Song."
3. "Ring the Bell, Watchman."
9.45 p.m.—Duets for two Violins with Piano accompaniment.
DAN SCULLY, MONICA HORDER, ADA BROOK.
9.45 p.m.—Songs by MISS EVA CROFT:
1. "Know Where I'm Goin'" (Hughes).
2. "Down Here" (Brabe).
9.55 p.m.—"Oberlin" Talk.
10.0 p.m.—Close down.

3LO, MELBOURNE.

Wednesday.

MIDDAY SESSION.

12 noon.—Time Signal; British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; Stock Exchange Information; "Argus" and "Herald" News from Melbourne.
12.20 p.m.—JOE ARONSON AND HIS SYM-COPATING SYMPHONISTS:
"The Gonna Chavinon Huck Home" (Byrne).
"While the Sahara Sleeps" (Nichols).
"Call Me Early in the Morning" (Haley).
12.30 p.m.—D'ARCY TRIO:
"Rise of Picardy" (Hady Wood).
Vallis, "Serenade" (Pisner).
"Honolulu Moon" (Lawrence).
"Melley."
12.42 p.m.—Stock Exchange Information.
12.45 p.m.—JOE ARONSON AND HIS SYM-COPATING SYMPHONISTS:
"Lonesome and Sorry" (Davis).
"The Me in Your Mind" (Shay).
"Home It on the Walls" (Kahn).
12.55 p.m.—RUSSELL CALLOW, Tenor:
"Dolores" (Phillips).
"For You Alone" (Gehl).
1.0 p.m.—JOE ARONSON AND HIS SYM-COPATING SYMPHONISTS:
"Dog on the Floor" (Shapiro).
"The Me in Your Mind" (Shay).
"Me Too! Ho, Ho! Ha, Ha" (Woods).
1.12 p.m.—Meteorological Information; Shipping Intelligence; Weather Forecast for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Reports.
1.15 p.m.—MARION LIGHTFOOT, Soprano: Selected.
1.25 p.m.—JOE ARONSON AND HIS SYM-COPATING SYMPHONISTS:
"Oh, Marie" (Di Capua).
"Oriental Moonlight" (Seamans).
"The Far Away Belle" (Gordon).
1.35 p.m.—RUSSELL CALLOW, Tenor:
"When the Night with Silly Silence" (Ebermann).
"Your Eyes Have Told Me" (O'Hara).
1.45 p.m.—JOE ARONSON AND HIS SYM-COPATING SYMPHONISTS:
"Oh, Miss Hattie" (Green).
"Love Bound" (Rupp).
"That's Why I Love You" (Demaldson).
1.55 p.m.—MARION LIGHTFOOT, Stage Gaiety:
"Melody of Love."
"The Rosary."
2.0 p.m.—Description of OAKLANDS HUNT CLUB RACES, at MOONBE VALLEY, by "Muskat" of the "Sporting Globe"; GLEN-DRAW TRIAL HURDLE.
2.5 p.m.—Close Down.
2.55 p.m.—Description of GOWRIE HANDBALL, OAKLANDS HUNT CLUB RACES at MOONBE VALLEY, by "Muskat" of the "Sporting Globe."
2.58 p.m.—Close Down.

AFTERNOON SESSION.

2.0 p.m.—Description of HUNT STEEPLE-CHASING, OAKLANDS HUNT CLUB RACES at MOONBE VALLEY, by "Muskat" of the "Sporting Globe."
2.5 p.m.—Description of Soccer Match, CHINA v. VICTORIA, described by Mr. R. H. Owen, from the M.C.C. Grand.

- 7.15 p.m.—STUDIO ORCHESTRA:
Selection, "Little Nelly Eddy" (Colum).
- 7.25 p.m.—MADAME LAMBERT, Soprano:
"Paele" (Arditi).
- 7.30 p.m.—Description of BOLINDA STEEPLE,
OAKLANDS HUNT CLUB RACES, at
MOONKE VALLEY, by "Musket," of the
"Sporting Globe."
- 7.35 p.m.—Description of Soccer Match, CHINA
v. VICTORIA, described by Mr. R. H. Owen,
from the M.C.C. Ground.
- 7.45 p.m.—CARLTON CHASE:
"This Time Next Year."
"To-night's My Night With Baby."
- 7.52 p.m.—STUDIO ORCHESTRA:
"Vandy" (Jackson).
- 7.59 p.m.—Description of Soccer Match, CHINA
v. VICTORIA, described by Mr. R. H. Owen,
from the M.C.C. Ground.
- 8.05 p.m.—Description of SPRINGBANK
CORINTHIAN, OAKLANDS HUNT CLUB
RACES, at MOONKE VALLEY, by
"Musket," of the "Sporting Globe."
- 8.15 p.m.—HARRY NORTH, English Con-
certina: Popular Selections.
- 8.22 p.m.—MADAME LAMBERT, Soprano:
"Serenade" (Suzuki).
- 8.30 p.m.—SISTER PECK:
"Infant Welfare."
- 8.40 p.m.—Description of ARUNDEL HANDE-
CAP, OAKLANDS HUNT CLUB RACES,
at MOONKE VALLEY, by "Musket," of
the "Sporting Globe."
- 8.45 p.m.—Description of Soccer Match, CHINA
v. VICTORIA, described by Mr. R. H. Owen,
from the M.C.C. Ground.
- 8.55 p.m.—"Herald" News Service; Stock Ex-
change Information.
- 9.5 p.m.—Class Done.

EVENING SESSION.

- 9.20 p.m.—Answers to Letters and Birthday
Greetings.
- 9.30 p.m.—STUDIO ORCHESTRA:
"The Debutante" (Bischoff).
- 9.45 p.m.—"MARY, MARY, QUITE CON-
TRARY":
"Further Adventures of the Knight of the
Sorrowful Countenance."
- 9.55 p.m.—STUDIO ORCHESTRA:
"Water Sprites" (Norman).
- 10.10 p.m.—CAPT. DONALD MACLEAN:
"Aunt Bonney—the Irish Woman First."
- 10.20 p.m.—Official Report of Newmarket Stock
Sales, Bullocks and Calves.
- 10.25 p.m.—"Herald" News Service; Weather
and Aerial Mail Information by the Aus-
tralian Aerial Services Ltd.
- 10.45 p.m.—Stock Exchange Information; Over-
seas Shipping.
- 10.55 p.m.—Fish Market Reports by J. R.
Burrell, Ltd., Rabbit Prices.
- 11.05 p.m.—Market Reports by the Victorian
Producers' Co-operative Co., Ltd.: New-
market Sheep Sales; Poultry, Grain, Straw,
Hay, Jute, Chaff, Dairy Produce, Potatoes,
and Onions—Fruit Market Reports by the
Wholesale Fruitgrowers' Association, compiled
by "The Fruit World," exclusive to BLO.

NIGHT SESSION.

- 11.15 p.m.—Under the auspices of the Depart-
ment of Agriculture, MR. T. A. J. SMITH,
Tobacco Expert:
"Tobacco Growing—Preparation of Seed
Bed."
- 11.30 p.m.—Under the auspices of the Victoria
Institute of Advertising, MR. L. E. WIL-
LIAMS, Past President of the Institute:
"Advertising and the Man on the Street."
- 11.45 p.m.—CAPT. PETERS:
"Books, Wine and Discretion."
- 12.0 p.m.—VICTORIAN RAILWAYS IN-
TUTE ORCHESTRA:
Three Dances, "Nell Gwyn" (German).
- 12.10 p.m.—MR. N. R. DUFFY:
"The Unemployment Question."

"There's just this about it—

I'm through experimenting with Batteries."

If you want to stop worrying about your
radio set Now and Forever, just buy yourself
a "Philco"—

Of course everyone knows that more than half the
trouble with radio sets lies in the batteries. Cheap dry
batteries are always distinguishable by the buzz, roar
and crackle—sometimes mistaken for "static." Using
a Philco battery these noises are conspicuous by their
absence.

Moreover, besides giving superior performance, the
Philco Re-chargeable Battery is far cheaper to own.
Given an average usage of two hours each night and
a re-charge at home every three to five months it lasts
indefinitely. Get your "Philco" now!

From any high-class radio dealer.

Wholesale:

New System Telephones Pty. Ltd.

280 Castlereagh Street, Sydney

25 Queen's Bridge Street,
Melbourne

Charles Street,
Adelaide



PHILCO

DRYDYNAMIC RADIO
BATTERIES

8.25 p.m.—VICTORIAN RAILWAYS INSTITUTE ORCHESTRA:
"Entracte," "Valse Traine" (SBellus),
"Friedland" (Janzelt).

8.35 p.m.—MELBOURNE CHORAL UNION:
"Stars of a Summer Night" (Bosart),
"Now Trump o'er Moon and Fell" (Blissey).

8.42 p.m.—Announcements and THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY:
PEDESTRIANS.—"Always use a footpath when available. The footpath is intended specially for pedestrians, but don't obstruct it so as to cause others to step off the traffic."

8.47 p.m.—HABEL RIDDEL, Contralto:
"The Heart Worship" (Hale),
"All Thru the Night"

8.55 p.m.—WILLIAM G. JAMES, Pianoforte Recital:
"Concerto in C Major for Two Pianos" (Bach).

Second Piano AGNES FORTUNE
"Friede in G Major" (Bachemann),
"The Little Soldier" (Masingall),
"Toccata" (Manginalli),
"Friede in Octave" (Alkan).

8.55 p.m.—VICTORIAN RAILWAYS INSTITUTE ORCHESTRA:
Overture, "Birella" (Gounod).

8.58 p.m.—HABEL RIDDEL, Contralto:
"The May Night" (Brahms).

JOHANNES BRAHME—Born at Hamburg in 1833 where his father was a musician in the theatre. From 1868-69 he was conductor of the Musikakademie, Vienna. With the exception of Opera, he touched every department of music, and was himself a great pianist. He died at Vienna in 1897.
"Grande Song" (Schubert).

9.00 p.m.—VICTORIAN RAILWAYS INSTITUTE ORCHESTRA:
"Three Hungarian Dances" (Brahms).

9.08 p.m.—MELBOURNE CHORAL UNION:
"How Calm the Evening" (Eggar),
"Ours of the Silence" (Jenkins).

9.15 p.m.—"Arara" News Service; Meteorological Information; British Official Wireless News.

9.27 p.m.—JOE ARONSON and HIS SYMPOCATING SYMPHONISTS:
Novelty Number.

9.35 p.m.—JOE BRENNAN and IDA NEWTON:
"I'm O.K."
"Mamma Grows Younger."

9.42 p.m.—HARRY NORTH, English Concertina; Popularities.

9.52 p.m.—CARLTON CHASE:
"My Maidie Me Happy When You Made Me Cry."
"Where is Your Girl and My Girl?"

9.59 p.m.—VICTORIAN RAILWAYS INSTITUTE ORCHESTRA:
Overture, "Oberon" (Weber).

10.01 p.m.—RUSSELL CALLOW, Tenor:
"Spirits Gentle" (Dessault),
"Friede" (Bonal).

10.04 p.m.—HARRY NORTH: English Concertina Selections.

10.20 p.m.—JOE ARONSON and HIS SYMPOCATING SYMPHONISTS:
"Calling Me Home" (Gibber),
"Hi Dada, Dada" (Coon),
"Friede" (Whiting).

11.0 p.m.—OUR GREAT THOUGHT:
"If you would not be forgotten as soon as you are dead, either write a book or worth writing of or things worth writing."
—Franklin.

11.3 p.m.—JOE ARONSON and HIS SYMPOCATING SYMPHONISTS.

11.40 p.m.—GOD SAVED THE KING

3AR, MELBOURNE

Wednesday.

MORNING SESSION.

11.0 a.m.—G.P.O. Clock says "Eleven."

11.1 a.m.—Broomstick Parapente Contest.

11.30 a.m.—British Official Wireless from Rugby Super Wireless Station, England, received 7 a.m. this morning. Express Train Information: "The Age" News Bulletin.

MIDDAY SESSION.

12 noon.—G.P.O. Clock says "Twelve."

12.3 p.m.—First Weather Forecast: "The Age" Sport Calendar.

12.4 p.m.—Studio Concert.

12.50 p.m.—"The Age" Stock Exchange Report; Market Reports; Mail Notices; Shipping Movements.

1.0 p.m.—Close Down.

MATINEE SESSION

"DANCE CONCERT."

OAKLAND HUNT CLUB RACES at Moonee Valley. Each race will be described by our Staff Expert, Mr. Willmot, as it is being run.

2.0 p.m.—Trial Hurdle, 2 miles.

2.20 p.m.—Gerrard Handicap, 1 1/4 furlongs.

2.33 p.m.—Studio Orchestra (Direction, Roscell Breasley).

2.55 p.m.—Saxophone Solo, Ernie Pettifer.

"Valse Lirouilly" (Woodsell).

2.58 p.m.—Ayrax Danconians (Direction, Roy Charles).

3.0 p.m.—Hunt Club Steeple, 3 miles 2 chains.

3.12 p.m.—Comedy, Fred Champion, Humorous Interlude with Melbourne's Melodious Merry Man.

3.30 p.m.—Studio Orchestra.

"Delibes Fantasia" (Ernst Urbach).

Overture, "Le Danse Macabre" (Baldidin).

3.36 p.m.—Bollada Steeple, 2 miles 8 chains.

3.37 p.m.—Piano Solo, Ethel Breasley.

"Lullaby" (Greig).

3.49 p.m.—Ayrax Danconians, Fox Trot.

3.52 p.m.—Comedy, Fred Champion, Mere Hilarity from a Favorite Fun Fand.

4.0 p.m.—G.P.O. Clock says "Four."

4.1 p.m.—Second Weather Forecast.

4.4 p.m.—Studio Orchestra.

Overture to an Irish Comedy (John Aspell).

"The Merry-makers" (Eric Coates).

4.10 p.m.—Singing Book Corichian Handicap, 7 1/2 furlongs.

4.15 p.m.—Studio Orchestra.

Selection, "Cocotata" (Oscar Straus).

4.25 p.m.—Vivian Solo, Herbert Pettifer.

"Mince" (Percora-Kvaleri).

4.29 p.m.—Ayrax Danconians.

4.30 p.m.—Ayrax Handicap, 7 furlongs.

4.40 p.m.—Studio Orchestra.

Selection, "The Beauty Prize" (Kern).

Valse, "Charm" (Miles).

4.55 p.m.—Tonight's Entertainment Guide.

5.0 p.m.—G.P.O. Clock says "Five." Close Down.

CHILDREN'S SESSION.

6.45 p.m.—"The Farmyard Five", Transmitted from Kookaburra Gully, the IAB by-assembly Station.

EVENING SESSION.

8.30 p.m.—Special Programme.
Rise Benefit Concert, BROADCASTED from the Myer Esplanade Concert Hall, by permission of Mr. Lee Neil.

PART I

8.0 p.m.—G.P.O. Clock says "Eight."

8.1 p.m.—Duet, Arthur Swinerton and Harold Webb.

"Did I sing at Limbas," from Paesotti de Paris.

8.3 p.m.—Song (Soprano), Beatrice Oakley.

"Arca," from "Lilla" (Verdi).

Cost LESS per Radio Hour



YALE RADIO Batteries

Contains more electrical energy — and evaporates that energy while idle! That means longer life — and LESS cost per radio hour!

Fresh stocks — HERE!
Stocked by all Radio Dealers.
Factory Representatives:
ATKINS, MACLEAN LTD.
National Mutual Building,
350 George Street, SYDNEY

- 1.16 p.m.—Song (Terror), Arthur Swinerton.
 "O Paradise" (Mazurka).
 1.18 p.m.—Comedy Interlude: A few merry moments with Gus Quinn.
 1.21 p.m.—Song (Contralto), Mary Miller.
 "Sally Awake My Heart," from "Samson and Delilah" (St. Saens).
 1.23 p.m.—Violin Solo, Cecil Parkes.
 "Romance in G," "Turkish March" (Beethoven).
 1.50 p.m.—Aria (Baritone), Harold Webb.
 Vocal, "Prologue from Faucelut" (Lacocavallo).
 1.55 p.m.—Interval. During the interval a radio comedy will be broadcast from the Studio as follows:—
 "MOVING DAY"
 (Written and Produced by Miss Esmie South.)
 Part II.—From the Meer Concert Hall.
 1.58 p.m.—Piano Solo, May Broderick.
 (a) "Herzogen" (Brahms).
 (b) "Mote Perpetua," from Sonata No. 1 (Wolff).
 2.01 p.m.—Song (Contralto), Mary Miller.
 "By the Waters of Minstonska" (Liszt).
 Violin Obligato, Cecil Parkes.
 2.09 p.m.—Six Minutes with Mr. Leo Neil.
 "The Community Spirit in Times of Distress."
 2.12 p.m.—Violin Solo, Cecil Parkes.
 "Zigeunerweisen" (Sarasate).
 2.15 p.m.—Monologue, Joan Piper.
 "Mrs. Murray on Love and Marriage."
 2.17 p.m.—Song, Dorothea Oakley.
 "The Blackbird's Song" (Cyril Scott).
 12.18 p.m.—Song, Arthur Swinerton.
 "All in a Lily White Gown" (Rachpope Martin).
 Programme Arranged by Mr. Harold Webb. Accompanist, Miss May Broderick.
 2.21 p.m.—"The Age," News Bulletin.
 2.25 p.m.—Dance Hour; Loggett's Ballroom Orchestra (Direction, Harry Nangle).
 11.9 p.m.—G.P.O. Clock says "Eleven"; God Save the King.

4QG, BRISBANE.

Wednesday.

EARLY MORNING SESSION.

- 6.20 a.m.—Physical culture session.
 7 a.m.—Close down.

MIDDAY SESSION.

- 1 p.m.—Market reports, weather information, "The Daily Mail" and "The Daily Standard" news.
 FROM THE G.P.O.
 1.20 p.m.—Lunch hour music played by the Postal Institute Orchestra.
 FROM THE OBSERVATORY—
 1.48 p.m.—Standard time signal.
 2 p.m.—Close down.

AFTERNOON SESSION.

- FROM HOTEL CARLTON—
 2.30 p.m.—Afternoon tea music from the lounge played by Hotel Carlton Symphony Orchestra.
 FROM THE STUDIO—
 4.15 p.m.—"Telegraph" news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 5.30 p.m.—"Daily Standard" news; announcements.
 5.50 p.m.—The children's hour—a special story will be broadcast by "Little Miss Brisbane"—
 "A Legend of the Australian Bush, and who it has no Tail."
 7 p.m.—Market reports; stock reports.
 7.25 p.m.—Weather news; announcements.
 7.35 p.m.—Standard time signal.
 7.45 p.m.—Lecturette "Breeding of Calves, No. 7"—
 Mr. A. J. McKenna, Lecturer in Animal Husbandry, Queensland Agricultural High School and College.

NIGHT SESSION.

- THE FEDERAL BAND.
 8 p.m.—March "The Children of the Regiment" (Pacini), the Federal Band conductor, Mr. W. H. Davis; soprano solo, "Look Down Dear Eyes" (Vicker), Miss

POWER

continuous... certain

...trouble-free

Distance? Certainly! But that isn't all.

Power, purity, and reliability... these are the qualities demanded by radio owners to-day. And all are conspicuous features of Burgess Radio Batteries.

In dense jungle and icy polar regions alike, the Burgess triumphed over distance and proved its worth in powerful performance—in steady and un-failing service.

The same Batteries are available
at all High-class Radio Dealers.



Wholesale:

New System Telephones Pty. Ltd.

280 Castlereagh Street, Sydney

25 Queen's Bridge Street,
Melbourne

Charles Street
Adelaide

Queensland Agents:
Canada Cycle & Motor Agency (Q.) Ltd.
Creek & Adelaide Streets, Brisbane

S.S.

N.S.

Distance WITH Volume PLUS Clarity

If your Set is
equipped with

ZETKAS

The Clear Glass
New Process Tube

ZX 201A.

6 Volt Fil. Current.
224-250 Volt Plate Current.
35 Fil. Consumption.
UX Base.

ZX 199.

4 Volt. Fil. Current.
45-90 Volt Plate Current.
30 Fil. Consumption.
UX Base.

The Valve that Outlasts and
Outperforms. Clear Tone, from
the Clear Glass Tube.

Magnesium. Silvering Eliminated.

ZETKA PROCESS TUBES assure
a tonal smoothness that
delight most critical Listeners.

With a Plate Voltage Range up
to 250 Volts, The ZETKAS will
produce remarkable volume
with wonderful clarity.

Rebuild your Set into Radio's
Rolls Royce, with the

**BRANSTON SUPER-HET
TRANSFORMER KIT.**



**BRANSTON SUPER-HET
TRANSFORMERS £7/13/- set**
With 2 Audios £9/15/-

Sole Agents and Distributors:

W. MALING & CO.

30 Market St., Sydney

Phone City 1149

Dulcie Peterson; humorous. "Charlie & Me
Dustin" (Hawkins); the Federal Band; con-
trolla solo. "Farewell to Summer" (Johns).
9.15 p.m. - Vera Parker; solo. "Frenzied ROP"
(Byer); the Federal Band; tenor solo. "I
Cried My Caravan at Night" (Coster); Mr.
Harris; contralto solo. "My Ain
Was Home"; Miss Dulcie Peterson; earnest
solo. "I Dancin'" (Arden); Mr. W. H. Davis
(accompanied by the Federal Band); a
duet for tonight. "Humming the Truth";
Will H. Lister; fox-trot. "That Certain
Party" (Kahn); the Federal Band; metro-
politan waltz (General).

9 p.m. - Overture, "Stratonia" (von Flotow);
the Studio Orchestra (conductor, Mr. A. R.
Fotherston); contralto solo. "My Dear
Soul" (Gardner); Mrs. Dulcie Peterson; ten-
minut entertainment for "Berofad
and Ryan"; intermission. "The Isle of Palma"
(Haines); the Studio Orchestra; tenor solo.
"Dream Valley" (Quiller); Mr. Hamish
Graham; earnest solo. "Scintilla (Perkins);
Mr. H. Jackson (accompanied by the
Studio Orchestra); contralto solo. "Less
Than the Dust" (Woodford-Finders); Miss
Vera Parker; not pour). "Hitharamonic
Ebband" (Haines-Toland); the Studio Or-
chestra; soprano solo. "Cherrie I Love You";
Miss Marian Carter; march. "The High
Private" (King); the Studio Orchestra.

10.45 p.m. - "The Daily Mail" news; weather
news. Close down.

5CL, ADELAIDE.

Wednesday.

MORNING SESSION.

12 noon - G.P.O. chimes.
12.1 p.m. - Details on the "New Introducing
Songs" and the "Autolite Repertoire."
12.30 n.m. - "Advertiser" news service.
1.00 p.m. - Market reports.
1.05 - G.P.O. chimes.
1.1 p.m. - Musical programme continued.
2 p.m. - G.P.O. chimes and close down.

AFTERNOON SESSION.

3 p.m. - G.P.O. chimes.
3.1 p.m. - Relay from the Maple Leaf Cafe -
Orchestral selections.
3.40 p.m. - Evening studio. Musical
programme.
4 p.m. - G.P.O. chimes.
4.1 p.m. - Relay from the Arcadia Cafe - Or-
chestral selections.
4.40 p.m. - Station announcements.
5 p.m. - G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m. - G.P.O. Chimes.
6.1 p.m. - Dinner Music by the Covent Garden
Orchestra.
6.45 p.m. - Boltine stories.
7.35 p.m. - Market reports.
7.45 p.m. - Boy Scouts' Gornier.
8.00 p.m. - Evening's scientific talk.
8 p.m. - G.P.O. chimes.
8.1 p.m. - Song, Miss Thelma Ball.
8.5 p.m. - Musical comedy. Mr. Frank John-
stone and Miss Ruth Wabart.
8.15 p.m. - Violin solo. Mr. Jas. Gannon.
8.19 p.m. - Song, Miss Alison Newby.
8.23 p.m. - Dance duet, Messrs. J. Williams
and G. Smith.
8.30 p.m. - Motor talk by "Accelerator."
8.45 p.m. - Song, Miss Hilda Stronach.
8.48 p.m. - Violin solo. Mr. Jas. Gannon.
8.52 p.m. - Song, Miss Alison Newby.
9.00 p.m. - Hostessing. Mr. Frank Johnstone.
9 p.m. - G.P.O. chimes.
9.1 1/2 p.m. - Weather report.
9.2 p.m. - Dalgely's wheat report.
9.3 p.m. - Dance duet, Messrs. J. Williams and
G. Smith.
9.13 p.m. - Song, Miss Hilda Stronach.
9.15 p.m. - Talk by Mr. P. H. Nicolson.
9.20 p.m. - Musical comedy. Messrs. John
Newby and Miss Helen Newby.
9.24 p.m. - Violin solo. Mr. Jas. Gannon.
9.28 p.m. - One-act comedy. Mr. Frank John-
stone and Miss Ruth Wabart.

9.48 p.m. - Dance duet, Messrs. J. Williams
and G. Smith.
9.54 p.m. - Song, Miss Alison Newby.
10 p.m. - G.P.O. chimes.
10.1 p.m. - "Advertiser" news service.
10.15 p.m. - Carmichael's Dance Orchestra.
10.20 p.m. - Tenor solo. Mr. Vincent Mc-
Murtry.
10.42 p.m. - Carmichael's Dance Orchestra.
11 p.m. - G.P.O. Chimes and close down.

6WF, PERTH.

Wednesday.

12.50 p.m. - Time in.
12.55 p.m. - First Local News Bulletin.
Market reports.
Cables.
1 p.m. - Time Signal from Perth Observatory.
1.1 p.m. - Weather notes supplied by the
Meteorological Bureau of Western Australia.
1.2 p.m. - LUNCH HOUR CONCERT:
Lunch hour concert arranged by Messrs.
McGregor's Ltd., relayed from Lyric House,
Murray Street.
1.30 p.m. - STUDIO QUARTETTE:
2 p.m. - Close down.
3.30 p.m. - Time in.
3.35 p.m. - Musical programme.
4 p.m. - STUDIO INSTRUMENTAL TRIO:
4.30 p.m. - Close down.
6.45 p.m. - Time in.
6.50 p.m. - Children's playette by Uncle Duffy,
with Auntie Marjorie, and Evelyn, and
Uncle Henry, Leslie, Perry, and Duffy.
7.10 p.m. - Stock and Share Intelligence.
Market reports.
Cables, News by courtesy of "The West
Australian" Newspaper Co.
7.45 p.m. - Talk.
8 p.m. - Time signal from Perth Observatory.
8.1 p.m. - Weather notes supplied by the
Meteorological Bureau of Western Australia.
WITH THE TRIO.
Items by the STUDIO STRING TRIO.
8.3 p.m. - Miss Evelyn Wright, A.R.C.M.,
Piano.
Mr. H. G. Basken, "Cells."
Mr. H. T. Newton, Violin.
MRS. BESSIE ROCKLIFF, Soprano.
10 p.m. - Late news items by courtesy of "The
Daily News" Newspaper Co.
Ships with cargo unaccounted.
Weather report and forecast.
10.30 p.m. - Close down.

Thursday, June 30

2FC, SYDNEY.

EARLY MORNING SESSION.

Announcer MR. A. S. COCHRANE.
7 a.m. - "Big Ben" and programme announce-
ments.
7.15 a.m. - Studio music.
7.15 a.m. - COUNTY SESSION: Official weath-
er forecast, rainfall, temperatures, astro-
nomical memoranda, shipping intelligence,
mail services.
7.25 a.m. - International market, mining share
market, metal quotations.
7.35 a.m. - Wool sales, breadstuffs markets,
Inter-State markets, produce markets.
7.40 a.m. - "Sydney Morning Herald" sum-
mary.
8 a.m. - "Big Ben" Close down.
MORNING SESSION.
Announcer MR. A. S. COCHRANE.
8.0 a.m. - "Big Ben" and announcements.
8.05 a.m. - Studio music.
9.05 a.m. - "Friday Morning Herald" news
service.
10.30 a.m. - Studio music.
10.35 a.m. - A talk by the 2FC Racing Com-
missioner.

10.15 a.m.—Studio music.
11 a.m.—"Big Ben." Marching music for school children.
11.10 a.m.—Cubles.
11.15 a.m.—Studio music.
11.15 a.m.—A Reading.
11.20 a.m.—Close down.

MIDDAY SESSION.

Announcer . . . Mr. A. S. DOCHRANE.
Accompanist . . . Mr. SPART CHAPPLE.
12 noon—"Big Ben" and announcements.
12.1 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.15 p.m.—Summary of "Sydney Morning Herald" news service.
Rugby wireless news.
12.25 p.m.—Studio music.
12.30 p.m.—Marching music for school children.
12.40 p.m.—MRS ENID D'ARCY, soprano:
"If there were dreams to sell" (Ireland).
12.45 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.25 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—ENID D'ARCY, soprano:
"A Little Winding Road" (Ronald).
1.45 p.m.—Studio music.
1.50 p.m.—Last minute sporting information by the JFC Racing Commissioner.
2 p.m.—Close down.

AFTERNOON SESSION.

Announcer, Mr. LAURENCE HALBERT.
Accompanist, Mr. SPART CHAPPLE.
2 p.m.—"Big Ben" and announcements.
2.5 p.m.—A Recital by the Pupils of MADAME ADA BAKER, and EILEEN DAVIES:
2.5 p.m.—Song, META HEAD:
"Open the gates of the Temple" (Kraepf).
3.5 p.m.—Violin quartette, EILEEN DAVIES' PUPILS:
"Sonata" from "Mozart Suite."
3.10 p.m.—Song, VIOLET ZOWE:
"Dancing Days" (Dickson).
3.15 p.m.—Monologue, CLARE PRATLING:
"And yet I don't know" (Weston and Lee).
3.17 p.m.—Song, MRS. SAINSBURY:
"The Hodgegrog Carnival" (Kesthope Martin).
3.20 p.m.—Violin duet, "Petite Symphony" (Mozart).
3.25 p.m.—Monologue, EILEEN DAVIES' PUPILS:
(a) "Inasmuch" (Porchell).
(b) "He met her on the stairs" (Levy).
3.30 p.m.—Marching music for school children.
3.45 p.m.—FRANK BOTHAM, baritone (from Farmer's Tea Rooms):
"Farewell in the Desert" (Adams).
3.45 p.m.—Song, RITA HEAD (Madame Ada Baker's pupil):
"The Slave Song" (del Rio).
3.50 p.m.—Studio music.
4 p.m.—JEANETTE ROONEY, contralto (from Farmer's Tea Rooms):
"My Dear Soul" (Sanderson).
4.3 p.m.—A Reading.
4.20 p.m.—FRANK BOTHAM, baritone (from Farmer's Tea Rooms):
"Brian of Glenmar" (Graham).
4.25 p.m.—FLORENCE GRANT, soprano:
"The Fairy's Lullaby" (Needham).
4.30 p.m.—Studio music.
4.40 p.m.—JEANETTE ROONEY, contralto (from Farmer's Tea Rooms).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—FLORENCE GRANT, soprano:
"The Joy Bird" (Barose).
4.50 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

PERFECT TUNING MAXIMUM VOLUME AND LONG DISTANCE

Are the finest features of the

Airzone Equamatic Coil Kit

You get maximum efficiency at every setting of your condenser.



A WORD TO THOSE TECHNICALLY INCLINED.

This kit represents an entirely new scheme in R. F. Coil design. A weakness of all previous designs has been that the tuning broadens on the lower wavelengths to the detriment of selectivity. This difficulty has been overcome in the AIRZONE EQUAMATIC COILS, by varying the degree of coupling between the primary and secondary of the coils. They are intended for use with any of the new hollow spindle tuning condensers now on the market.

The illustration clearly shows the arrangement of the coils relative to the condensers.

Made in Sydney by—

AIRZONE LIMITED

The largest Coil Manufacturers in Australasia.

On Sale at all Radio Dealers.

Price - - 40/-

SALES AGENTS TO THE TRADE—

Manufacturers' Products Pty. Ltd.

(H. J. Haggood)

Challis House, 4 Martin Place, Sydney.

Phone BW 1328

Two Great Carborundum Radio Products



CARBORUNDUM RADIO DETECTOR.

Is fixed—permanent—no adjustments, nothing to get out of order, and won't burn out. Brings true, clear crystal tones to any reflex or crystal Set, and is guaranteed. Simply connect each end and tune in.



CARBORUNDUM STABILISING DEFECTOR UNIT.

Built around the Carborundum Fixed Defector is this highly efficient Stabilising device. Absolutely controls self oscillation in radio frequency tubes and permits operation at peak of regeneration. A small sized flash-light battery is all it needs.

Sole Agents:

Eliza Tinsley, Pty. Ltd
N.S.W.: 484 Kent St., Sydney.
Vic.: 440-452 Bourke St., Melbourne.

DAILY EVENING SESSION.

CHILDREN'S HOUR.

- Announcer . . . Mr. A. A. COCHRANE.
5.48 p.m.—The Chinese of P.O.
5.50 p.m.—The "Hello Man" talks to the children.
5.55 p.m.—Story time for the young folk.
6.40 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.10 p.m.—Vegetable Market Reports (wheat, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.25 p.m.—Weather, intelligence, and shipping.
7.35 p.m.—"Evening News" late news service.

NIGHT SESSION.

- Announcer, Mr. LAURENCE HALBERT.
Accompanist . . . Mr. EWART CHAPPEL.
7.40 p.m.—Programme announcements.
7.50 p.m.—A talk by the Technical Editor of "Wireless Weekly."
8 p.m.—"Big Ben."
THE LYCEUM THEATRE ORCHESTRA (from Pitt Street, Sydney).
8.15 p.m.—WILLIAM BOWYER, basso: "She alone charmed my sadness" (Gounod).
8.25 p.m.—THE CONGRESS BAND.
8.30 p.m.—WILLIAM BOWYER, tenor: "In Sunshine and Shadow" (Geck).
8.34 p.m.—GLADSTONE HELL, contralto: "Sinnin'" (Popera).
8.40 p.m.—THE SWINNEY MADRIGAL SOCIETY'S CHOIR; conductor, Mr. ARNOLD MOTER (from Paling's Concert Hall).
9.10 p.m.—THE CONGRESS BAND.
9.20 p.m.—WILLIAM BOWYER, basso: "The Sentinel" (Oliver).
9.26 p.m.—THE CONGRESS BAND.
9.30 p.m.—Mr. SCOTT ALEXANDER presents a Comedy adapted from the Russian by Constantin Bal, entitled "THE SWAN SONG."
Scene: THE IMPY STATE of a Russian Theatre after a great performance.
THE OLD ACTOR, Mr. Scott Alexander.
THE PROMPTER, Mr. Scott Alexander.
9.37 p.m.—GLADSTONE HELL, contralto:
(a) "The Bell" (Delmas).
(b) "The Bee" (Schubert).
9.43 p.m.—WILLIAM BOWYER, basso:
"Mr. Malignant" (Adams).
10.10 p.m.—THE CONGRESS BAND.
10.17 p.m.—Studio announcements.
10.28 p.m.—THE LYCEUM THEATRE ORCHESTRA.
10.30 p.m.—SCOTT ALEXANDER presents an original comedy, specially written for broadcasting by Constantin Bal, entitled "MR. ROOKE BOOKS THE ROOSES!"
Scene 1: The Professor's Study.
Scene 2: Interior of a Gambling Saloon.
Characters: Professor Evergreen, Scott Alexander.
Other characters will be played by members of Mr. Alexander's Radio Company of selected artists.
10.45 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA, Conductor, Mr. Frederick Leighton.
10.57 p.m.—Programme announcements and late news.
11 p.m.—"Big Ben."
THE WENTWORTH SYMPHONIC DANCE ORCHESTRA.
11.15 p.m.—National Anthem.
Close down.

2BL, SYDNEY

Thursday.

EARLY MORNING SESSION.

- 7.9 a.m.—G.P.O. Clock and Chinese; Meteorological Weather Forecast.
7.5 a.m.—Daily Weather Report.
7.5 a.m.—Oceania Forecast.
7.6 a.m.—News Review.
7.18 a.m.—Fruit Market Report.
7.18 a.m.—Vegetable Market Report.

- 7.20 a.m.—A.M.I. and P. Co's Report.
7.21 a.m.—Dairy Farm Produce Market Report.
7.25 a.m.—Poultry Market Report.
7.30 a.m.—G.P.O. Clock and Chinese; Musical Programme from the Studio.
7.37 a.m.—News Review.
7.42 a.m.—Boats in Call by Wireless.
7.44 a.m.—Mail Information; Shipping Arrivals and Departures, and Port Directory.
7.48 a.m.—News Service.
8.1 a.m.—G.P.O. Clock and Chinese; Close Down.

MORNING SESSION.

- 10.38 a.m.—G.P.O. Clock and Chinese; Musical Programme from the Studio.
10.45 a.m.—News from the "Daily Telegraph."
10.50 a.m.—Special Programme from the Studio.
11.0 a.m.—G.P.O. Clock and Chinese; Announcements.
11.5 a.m.—Musical Programme from the Studio.
11.15 a.m.—Social Notes: Replies to correspondents by Max Jordan. Talk by Mrs. Jordan.
12 noon.—G.P.O. Clock and Chinese; Special Ocean Forecast and Weather Report.
12.3 p.m.—Musical Programme from the Studio.
12.15 p.m.—Information; Mail, Shipping and Port Directory.
12.16 p.m.—Boats in Call by Wireless.
12.20 p.m.—Fruit Market Report.
12.22 p.m.—Vegetable Market Report.
12.24 p.m.—London Metal Market Report.
12.25 p.m.—Dairy and Farm Produce Market Report.
12.30 p.m.—G.P.O. Clock and Chinese; Foreign Market Report.
12.35 p.m.—Fish Market Report.
12.34 p.m.—Hobby Market Report.
12.35 p.m.—News from the "Sun."
12.45 p.m.—Hilbert's Instrumental Quartet, Director, Carol Gosting.
1.0 p.m.—G.P.O. Clock and Chinese; News from the "Sun."
1.40 p.m.—Musical Programme from the Studio.
1.45 p.m.—Stock Exchange Falls.
2.0 p.m.—G.P.O. Clock and Chinese; Close Down.

AFTERNOON SESSION.

- Reading Information Broadcast immediately after each Race, by courtesy of the "Sun."
2.0 p.m.—G.P.O. Clock and Chinese; News from the "Sun."
2.15 p.m.—Musical Programme from the Studio.
2.30 p.m.—G.P.O. Clock and Chinese; Talk to Children and Special Entertainment for Children in Hospital.
4.0 p.m.—G.P.O. Clock and Chinese; Musical Programme from the Studio.
4.15 p.m.—Social Story.
4.25 p.m.—Musical Programme from the Studio.
4.45 p.m.—News from the "Sun."
4.50 p.m.—Singing Lesson.
4.52 p.m.—Recapit of Night's Programme.
4.54 p.m.—Announcements and What's On.
4.58 a.m.—Special Ocean Forecast.
5.0 a.m.—G.P.O. Clock and Chinese; Close Down.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chinese; Daddy Language and the Kiddies.
6.15 p.m.—Musical Programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7.0 p.m.—G.P.O. Clock and Chinese; Australian Mercantile and Finance Co.'s Report; Weather Report and Forecast by courtesy of Government Meteorologist; Producers' Distribution Society's Fruit and Vegetable Market Report; Stock Exchange Reports; Grain and Fodder Report ("Sun") Daily Produce Report ("Sun").
7.2 a.m.—Country News from the "Sun."
7.30 p.m.—Talk on "American Progress in Television," by Mr. Rupert Markham, P.E.
8.0 p.m.—G.P.O. Clock and Chinese; Producers' Musical Chorus.

- 23 p.m.—Broadcasters' Trio.
- 23 p.m.—Mr. Phil Mountain (Comedian)
- 23 p.m.—Miss Phyllis Atkinson (News-Singer).
- 23 p.m.—Mr. Alfred Fitzhenry (Elocutionist).
- 24 p.m.—Miss Hazel Sorrell (Soprano).
- 24 p.m.—Mr. Sydney Bullister (Comedian).
- 24 p.m.—Mr. Roger Jones (Baritone).
- 25 p.m.—Romance of Following Day's Programme: Weather Report and Forecast by courtesy of Mr. C. J. Marns, Government Meteorologist.
- 25 p.m.—G.P.O. Clock and Chimes.
- 21 p.m.—Broadcasters' Trio.
- 21 p.m.—Mr. Rennie Heade (The Radio Singer).
- 23 p.m.—Miss Phyllis Atkinson.
- 25 p.m.—Mr. Phil Mountain.
- 22 p.m.—Miss Hazel Sorrell.
- 25 p.m.—Mr. Alfred Fitzhenry.
- 24 p.m.—Mr. Sydney Bullister.
- 23 p.m.—Broadcasters' Trio.
- 25 p.m.—G.P.O. Clock and Chimes.
- 24 p.m.—Mr. Rennie Heade.
- 24 p.m.—Mr. Roger Jones.
- 24 p.m.—Cec. Morrison and his Gloom-chasers Broadcast from the Ballroom of the Sandi Casino. During Intervals between dances, "Sun" News will be broadcast.
- 11.0 p.m.—G.P.O. Clock and Chimes: National Anthem.

3LO, MELBOURNE.

Thursday

MIDDAY SESSION.

- 11 noon.—Time Signal: British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; and "Heard" News Service.
- 11.15 a.m.—THE DABBY TRIO: "Love, Here is My Heart" (Flieder), "Vainly Iola, Romance" (Tours), "Promote Carolina Moon" (Schmidt), "Sunday" (Miller).
- 12.30 p.m.—STUDIO ORCHESTRA: Overture, "Norma" (Bellini).
- 12.45 p.m.—Stock Exchange Information.
- 12.45 p.m.—MYRTLE ROBERTSON: "Sonata" (Handel).
- 12.53 p.m.—STUDIO ORCHESTRA: "Woe Hoek of Holand."
- 1.0 p.m.—CARLTON CHASE: "Where the Bunch Heather Blooms," "Murphy, McCarthy, McGinty."
- 1.10 p.m.—Wendell Rogers.
- 1.12 p.m.—STUDIO ORCHESTRA: "The Araduk."
- 1.22 p.m.—FRANCES LEA: "Sheep Fold Song" (Landon Ronald), "They Say" (W. Evans).
- 1.27 p.m.—AGNES FORTUNE: "Romance" (Robertson).
- 1.40 p.m.—STUDIO ORCHESTRA: "Gone from the Highlands."
- 1.48 p.m.—JEAN GILLESPIE: "How Many a Lovely Caravan" (Woodford-Finden), "Down Here."
- 2.0 p.m.—Close Down.
- 2.0 p.m.—ASSOCIATED PUBLIC SCHOOLS OF VICTORIA FOOTBALL MATCH—XAVIER v. WESLEY COLLEGE. Described by Mr. G. J. Brookbanks.
- 2.15 p.m.—Close Down.

AFTERNOON SESSION.

- 2.0 p.m.—STUDIO ORCHESTRA: "Lavender and Lace" (Hald).
- 2.10 p.m.—ASSOCIATED PUBLIC SCHOOLS OF VICTORIA FOOTBALL MATCH—XAVIER COLLEGE v. WESLEY COLLEGE. Described by Mr. G. J. Brookbanks. Quarter Time.
- 2.20 p.m.—MARGARET LAMBERT: "Old Source" (Caherlin), "Berenice" (Wakerlin).
- 2.27 p.m.—HERTHA JOHNSON: "Serenade" (Dolla), "Form" (Fischer).

Hear them all perfectly on the

ASTOR

The Guaranteed 5-Valve

Table Stripped, £26 Complete, £39/5/6
Console Stripped, £35 Complete, £48/5/6

3LO, MELBOURNE.

Baldwin Speakers

Volume and Tone.



Symphony £3/3/-
Concert £5/5/-



Cabinet Type, £4/15/-

Armax B. Batteries Last Longest

Distributors to the Trade for Astor Sets, Baldwin Speakers, and Armax Batteries:

Manufacturers Products Pty. Ltd.
Challis House, Martin Place :: Sydney

A Valve for Every Purpose

Clearer—
Strongest—



—Last the
Longest

THE very best wireless valve was made in the Edison laboratories, and Edison has set the standard ever since.

Now there is an Edison Valve for every wireless requirement, and each valve is the best obtainable for that particular purpose. Edison's Valve operates at remarkably low temperatures, and are consequently very economical of current. They are strongly constructed and give long and satisfactory service. Another feature which recommends them to the experienced listener is their entire freedom from microphonics.

You cannot do better than fit Edison Valves, for they are extremely sensitive and will improve any set.

FIT EDISWAN VALVES

AND NURSE YOUR SET

THE EDISON SWAN ELECTRIC CO. LTD.

58 Clarence Street, Sydney.
124 Creek Street, Brisbane.
268 Little Collins Street, Melbourne.
55 Grenfell Street, Adelaide.

TO THE EDISON SWAN ELECTRIC CO., LTD.

Please send me, post free, a copy of the Blue Print and Instruction Book for constructing the "E.C. Transmitters."

Name

Address

3.40 p.m.—ASSOCIATED PUBLIC SCHOOLS OF VICTORIA FOOTBALL MATCH—XAVIER COLLEGE v. WESLEY COLLEGE. Described by Mr. G. J. Brookbanks.
Half Time.
3.50 p.m.—RUSSELL CALLOW: "The Living God" (O'Hara). "Mountain Lovers" (Squibb).
3.57 p.m.—FRANCES LEA: "Moonlight and Ruess" (Lomare). "My Muz. Sweet and Brown" (Kilmer).
4.4 p.m.—STUDIO ORCHESTRA: "Slavische Rhapsodie" (Friedmann).
4.15 p.m.—ASSOCIATED PUBLIC SCHOOLS OF VICTORIA FOOTBALL MATCH—XAVIER COLLEGE v. WESLEY COLLEGE. Described by Mr. G. J. Brookbanks.
Three-quarter Time.
4.20 p.m.—MISS FRANCES FLASER: "English Rhymes" (Durham).
4.25 p.m.—"Herald" News Service; Stock Exchange Information; Acceptances for V.R.C. Flemington Race Meeting (Grand National) on Saturday, 2nd July.
4.45 p.m.—EVENSONG, transmitted from St. Paul's Cathedral.
5.30 p.m.—Final Results of ASSOCIATED PUBLIC SCHOOLS OF VICTORIA FOOTBALL MATCH—XAVIER COLLEGE v. WESLEY COLLEGE. Described by Mr. G. J. Brookbanks.

EVENING SESSION.

3.80 p.m.—Answers to Letters and Birthday Greetings.
5.50 p.m.—KUTZEBRIE: Italian Concert Accordion.
6.57 p.m.—"MARY GUMLEAF": "Piano," "Sleepy Time," "Washing Day." Story for the Littlest One. "Chindrella."
6.7 p.m.—KUTZEBRIE, Italian Concert Accordion.
6.15 p.m.—"MARY GUMLEAF": Story for the Bigger Boys and Girls. "Timely Aid." "Rover and His Master."
8.50 p.m.—Official Report of Newmarket Stock Sale; Cow Sale.
8.55 p.m.—"Herald" News Service; Weather Synopsis; Shipping Movements.
9.47 p.m.—Stock Exchange Information.
9.55 p.m.—Fish Market Reports by J. B. Brett, Ltd.; Rabbit Prices.
9.55 p.m.—River Reports.
9.58 p.m.—Market Reports by the Victorian Producers' Co-operative Company, Ltd.; Newmarket Sheep Sales; Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
7.6 p.m.—Market Reports of Fruit by the Victorian Producers' Association, compiled by "The Fruit World," exclusive to 3LO.

NIGHT SESSION.

7.15 p.m.—Under the auspices of the Victorian Railways, Mr. R. F. Wetherston will commence a series of Holiday Tours: "A River Murray Tour."
7.30 p.m.—MR. CHARLES NUTTALL: "Songs of Home."
7.45 p.m.—MARIE BRENNER, under the management of Harold Bengt, at His Majesty's Theatre, will speak to you from his dressing room, by permission J. G. Williamson.
8.0 p.m.—MR. ROD MCGREGOR, Football Half-way Referee.
8.15 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "My Carmelita" (Duramo). "Calleja" (Gunnings). "We're Down Home" (Blannett).
8.25 p.m.—MADAME LAMBERT: "Sagittale Carmen" (Bisot).
8.28 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "I've Never Seen a Straight Banana" (Watts). "Perfume of the Past" (Maysan). "There Ain't No Key in My Baby's Eye" (Kehr).
8.35 p.m.—JOE ARONSON AND IDA NEWTON: "Do What You Can For Ninescence."

8.43 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "We Don't Want to Get Married" (Haley). "Laughed at the Ivories" (Piano Solo (Wendell)). "My Blackbird" (Hinson).
8.55 p.m.—RUSSELL CALLOW: "Lullie."
9.1 p.m.—Announcements.
9.15 p.m.—CARLTON CHASE: "My Cutie's Due at Two to Two."
9.15 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "Paradise Alley" (Archer). "While the Years Go Drifting By" (Kehoy).
9.25 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "Where Did You Get Those Eyes" (Donaldson). "Sing, Katie, but Leave the Piano Alone" (Tracey). "Diurnal Despond" (Ellen).
9.30 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS FOR EVERYBODY.—"Always play the game of 'Safety First.' Remember that 'Safety First' is not a game for children. It's a game of bravery, skill and thought always to play it properly. Try it now and you will never be sorry."
9.40 p.m.—MADAME LAMBERT: "Carmen Balagana" (Bisot).
9.44 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "Whisper 25" (Haley). "No Koolie" (Bueh). "Cherie, I Love You" (Goodman).
9.50 p.m.—JOE BRENNAN: "Patric," "My Marriage."
9.54 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "The Animal Farm" (L.A. Forester). "The Savvy Wesley of Modesty" (Arr. Somers). "Scott's Kantary" (Nausbaum).
10.0 p.m.—"Archie" News Service; British Official Wireless News.
10.12 p.m.—IDA NEWTON: "Little by Little."
10.15 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "The More We Are Together" (Campbell). "Say That You Love Me" (Nichols). "In the Black Bottom With Me" (Meyer).
10.24 p.m.—Meteorological Information.
10.25 p.m.—RUSSELL CALLOW: "Nita Glina."
10.30 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "Shelta is Back with His Boom, Boom, Boom." "She's Everybody's Sweetheart" (Rae). "It Made You Happy" (Donaldson).
10.40 p.m.—CARLTON CHASE: "Typical Tipperary Over Here."
10.44 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "While We Danced 'Til Dawn" (Schuster). "Let's Grow Old Together" (Notson). "The Blue Bird" (Baker).
10.55 p.m.—JOE BRENNAN: "Father," "Nobody Loves Me."
10.58 p.m.—GREAT THOUGHT: "I'm a spirit and one of your name will have a great influence on your children. If it is what I ought to be it will furnish conviction in their minds, however weak they may become."—Herald Cell.
11.1 p.m.—JOE ARONSON AND HIS SYNO-COPATING SYMPHONISTS: "GOD SAVE THE KING."

4QG, BRISBANE.

Thursday.

MIDDAY SESSION.

1 p.m.—Market reports, weather information, "The Daily Mail" and "The Daily Standard" news.
1.20 p.m.—From the Constitutional Club: A lunch hour address.
1.55 p.m.—From the Observatory, Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

A PROGRAMME OF MUSIC BY THE STUDIO ORCHESTRA.

- 3.28 p.m.—A programme of music by the Studio Orchestra, including:—(a) "They Feature" (Mallory); (b) "Fireside Tales"; (c) "Romany Night"; (d) "The Ball at Manor Farm"; march, "Sons of Britain" (McNeill); waltz ballet, "Scintigling with Cupid" (Horath); Cantata, "Hungarian Dance No. 15" (Bartok); selection, "The Dumbie" (Dennee).
- 4 p.m.—Cockery call by "Betty Simpson." Romance, "Lover's Lane" (King); serenade especially, "La Mayada" (Ellenberg); selection, "Valse" (Zamenhof).
- 4.15 p.m.—"Telegraph" news.
- 4.29 p.m.—Close down.

EARLY EVENING SESSION.

- 6 p.m.—"Daily Standard" news; announcements.
- 6.30 p.m.—The Children's Section. Stories by "The Bandman."
- 7 p.m.—Market reports; stock reports.
- 7.20 p.m.—Weather news; announcements.
- 7.45 p.m.—Standard time signal.
- 7.55 p.m.—Locutretto, "Talk on Sheep Raising," Mr. L. Carver (Assistant Instructor in Sheep and Wool).

NIGHT SESSION.

PERKINS' BREWERY.

The first portion of to-night's programme will comprise a full description of the Brewery of Perkins and Co. Ltd., and will be relayed direct from the company's premises. The whole of the process of manufacture will be described, the various portions of the plant being in operation during the transmission.

During the second portion, a concert will be relayed from the premises.

FROM PERKINS' BREWERY.

8 p.m.—A description of the plant.

FROM PERKINS' WAREHOUSE:

- 8 p.m.—Hawaiian instrumentalists in selected numbers, the Kalua Trio; male quartette, "De Ole Banjo" (Gatty), the Anglo Male Quartette; soprano solo, selected, Miss Elvyn McLennan; violin solo, selected, Mr. H. Scott MacCallum; tenor solo, "Bonnie Mary of Argyll" (Nelson), Mr. C. R. Kuhl; Hawaiian instrumentalists, the Kalua Trio; soprano solo, "Fanny Charming" (Newington); Miss Jill Macneil; male quartette "Jim" (Parks), the Anglo Male Quartette; bass solo, "Drinking" (Dickenson), Mr. E. Pike; some mouth organ numbers by "The Bandman"; vocal duet, "The Battle Eye" (Bocher); Mr. G. H. Kuhl and H. Pike; Hawaiian instrumentalists in selected numbers, the Kalua Trio; baritone solo, "A Pioneer," Mr. A. E. Stoddart; more mouth organ numbers by "The Bandman"; male quartette, "The Lonesome Rose" (Hermes), the Anglo Male Quartette.

FROM THE STUDIO.

- 10 p.m.—"The Daily Mail" news; weather news. Close down.

SCL, ADELAIDE.

Thursday.

MORNING SESSION.

- 11 noon.—G.P.O. chimes.
- 11.1 p.m.—Recitals on the "New Reproducing System" and the "Automatic Reproducer."
- 11.30 p.m.—"Adriatic" news service.
- 11.50 p.m.—Market reports.
- 1 p.m.—G.P.O. chimes.
- 1.15 p.m.—Musical programme continued.
- 2 p.m.—G.P.O. chimes and close down.

RADION

The Supreme Insulation

BUILD the new improved Browning Drakes or the Radion RH 27 or any other set and the reception depends primarily on the integrity of the parts used in it.

Discriminating set builders insist on genuine —

RADION

Radion Panels and Sockets and tubing at popular prices. Ask your dealer or

International Radio Co., Ltd.,

200 Castlereagh Street, Sydney

Wellington, N.Z.

RIGHT OUT ON ITS OWN

The World-famed Balkite "B" Eliminator

Announcing the New

Balkite "B" The noiseless tubeless permanent light socket "B" power supply

Balkite "B" replacing "B" batteries and supplying "B" current from the light socket, is one of the outstanding successes in radio. It is radically different from any other "B" Power device.

Same working principle as in the well-known
BALKITE TRICKLE CHARGER.

MODEL BW,
for Sets with
5 Valves
(201A Type)
or less,
£11/10/-



MODEL BX,
for sets with
8 Valves,
and up to
135 Volts.
£16/15/-

1. It is entirely noiseless. Its smooth silent flow of current gives a constant quality of reception to be secured in no other way.
2. It is permanent. So far as we know, not one has ever worn out.
3. It has no tubes. The rectifying cells are permanent, and do not require renewal. To our knowledge Balkite "B" is the only "B" power supply free from replacements.
4. It will not deteriorate either from continuous use or lying idle.
5. Over 75,000 Balkite "B"s are to-day giving satisfactory service on all types of receiving sets.
6. It is the most economical source of "B" power. With sets of higher current requirements its use is highly desirable for the saving alone.
7. Once connected and set to the needs of your receiver, it requires no adjustments. There are no controls or dials to complicate tuning.

Sold by Leading Radio Dealers Everywhere.

Manufactured by the

FANSTEEL PRODUCT COMPANY INC., NORTH CHICAGO.

SOLE AUSTRALIAN DISTRIBUTOR:

O. H. O'BRIEN (SYDNEY)

37-39 Pitt Street, Sydney.

516 Collins Street, Melbourne

AFTERNOON SESSION.

- 2 p.m.—G.P.O. chimes.
2.15 p.m.—Relay from the Maple Leaf Cafe—Orchestral selections.
2.45 p.m.—Humorous talk by Mrs. Murray Coshill.
4 p.m.—G.P.O. chimes.
4.15 p.m.—Relay from the Arcade Cafe—Orchestral selections.
4.45 p.m.—Studio announcements.
5 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

- 8 p.m.—G.P.O. chimes.
8.15 p.m.—Dinner music by the Covent Garden Restaurant Orchestra.
8.45 p.m.—Radio's stories.
9.00 p.m.—Studio reports.
9.20 p.m.—Talk by Mr. A. M. Whittenbury.
9.45 p.m.—G.P.O. chimes.
10.15 p.m.—Studio Orchestra.
10.30 p.m.—Soprano solo, Miss Thelma Ball.
10.45 p.m.—Humorous item, Mr. F. Part.
11.05 p.m.—Bass solo, Mr. E. Wickens.
11.20 p.m.—Studio Orchestra.
11.40 p.m.—Tenor solo, Mr. Ken Hughes.
12.00 p.m.—Talk by Mr. A. G. Nicholls.
9 p.m.—G.P.O. chimes.
8.5 p.m.—Debater's vocal report.
8.8 p.m.—Studio Orchestra.
8.13 p.m.—Soprano solo, Miss Thelma Ball.
8.18 p.m.—Humorous item, Mr. F. Part.
8.23 p.m.—Tenor solo, Mr. Ken Hughes.
8.28 p.m.—Studio Orchestra.
8.33 p.m.—Song, Mr. Eric Wickens.
8.38 p.m.—Announcements.
8.43 p.m.—Humorous item, Mr. F. Part.
8.48 p.m.—Soprano solo, Miss Thelma Ball.
8.53 p.m.—Studio Orchestra.
8.58 p.m.—G.P.O. chimes.
10.1 p.m.—Advertiser's news service.
11 p.m.—S.C. Orchestra.
10.25 p.m.—Tenor solo, Mr. Ken Hughes.
10.30 p.m.—Humorous item, Mr. F. Part.
10.35 p.m.—Song, Mr. Eric Wickens.
10.40 p.m.—Carnet solo, Mr. Vera Rogers.
10.45 p.m.—Celli solo, Mr. G. Goldworthy.
10.50 p.m.—Studio Orchestra.
11 p.m.—G.P.O. chimes and close down.

GWF, PERTH.

Thursday.

- 12.30 p.m.—Time in.
12.35 p.m.—First Local News Bulletin.
Market reports.
Children.
1 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—STUDIO QUINTETTE.
2 p.m.—Close down.
3.00 p.m.—Time in.
3.35 p.m.—Musical programme, including piano recital selections by Miss Evelyn Willis.
A.R.C.M.
4 p.m.—STUDIO INSTRUMENTAL TRIO.
4.30 p.m.—Close down.
6.45 p.m.—Time in.
6.50 p.m.—Stories for Tiny Tots by Annie Kate.
7.0 p.m.—Uncle Dudley will talk to the Kiddies.
7.25 p.m.—Rock and Share Intelligence.
Market reports.
Children. News by courtesy of "The West Australian" Newspaper Co.
7.45 p.m.—Talk, "Natural Sources of Energy" (No. 2), by Mr. H. T. Bowden, B.Sc. (Eng.).
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.

2.2 p.m.—ORCHESTRAL CONCERT.
SWF's Station Orchestra:
Conductor, MR. RONALD E. MOYLE.
A.T.C.L.
Vocal Assisting Artists: MR. DAVID J.
LYLE, Tenor.
8 p.m.—Travel talk by John Cowie, Esq.,
Representing Cook's Tourist Agency, Fremantle.
10 p.m.—Late news items by courtesy of "The
Daily News" Newspaper Co.
Shows with a Bangs announcement.
Weather report and forecast.
10.55 p.m.—Close down.

Friday, July 1 2FC, SYDNEY.

EARLY MORNING SESSION.

Announcer . . . Mr. A. S. COCHRANE.
7 a.m.—"Big Ben" and announcements.
7.5 a.m.—Studio music.
7.15 a.m.—COUNTRY SESSION: Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.
7.30 a.m.—Investment market, mining share market, metal quotations.
7.35 a.m.—Wool sales, by-products markets.
7.40 a.m.—State markets, produce markets.
7.45 a.m.—"Sydney Morning Herald" summary.
8 a.m.—"Big Ben." Close down.

MORNING SESSION.

Announcer . . . Mr. A. S. COCHRANE.
10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A Reading.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben."
11 a.m.—Marching music for school children.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.
11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Forsk.
11.30 a.m.—Close down.

MIDDAY SESSION.

Announcer . . . Mr. A. S. COCHRANE.
Announcer, Mr. EWART CHAPPEL.
12 noon—"Big Ben" and announcements.
12.5 p.m.—Stock Exchange, Rest talk.
12.7 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
Rugby wireless news.
12.25 p.m.—Studio music.
12.30 p.m.—Marching music for school children.
12.40 p.m.—EVA WEBB-JONES, mezzo:
"Valinka's Song" (Hutwah).
12.45 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.5 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.25 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—EVA WEBB-JONES, mezzo:
"Damon" (Stange).
1.45 p.m.—Studio music.
2 p.m.—"Big Ben." Close down.

You can't afford
to miss
David Jones'
Preparation Sale

All Radio Goods
Less 2/- in the £
for Cash

BUY during David Jones' Sale
— the same high-grade sets
— speakers — valves — batteries
and all accessories less the cash
discount of 2/- in the £.

We have big stocks on
hand, but we would advise you,
to save disappointment, to place
your orders early.

Radio Dept., 22 York St., Sydney

DAVID JONES'

For Service

Essential Battery Points

First, the battery should be fresh. Ever-Ready Radio Batteries are made in Australia, and are always fresh.

Secondly, the battery should give good service until it runs right down. Ever-Ready Batteries are famed, both for their long life and reliability.

Thirdly, the correct battery should be chosen. Ask your Radio dealer. He has an Ever-Ready for every requirement.



The "Standard" Dry Cell Radio Battery

Price, 3/-.

The Ever-Ready Radio "Standard" Dry Cell, as illustrated, is fitted with two screw terminals, and since its introduction has met with great success, users recognising its immense superiority over any imported cell. Size, 2 x 6. Weight, 2lbs. Also for bells, telephones, signalling and electro-medical apparatus, &c.



"Wanda" Plug Radio Battery

This illustrates the new radio high-tension "B" Battery, which can be obtained 31, 42 or 63 volts fitted with a Wanda plug, and 2 screw terminals.

PRICE:

Small size, type WP, 31.5 volt	9/6
Small size, type WP, 42 volt	12/6
Small size, type WP, 63 volt	18/-
Large size, type XP, 31.5 volt	18/-
Large size, type XP, 42 volt	24/-
Extra large size, type	
Super service, 42 volt	28/6

If unobtainable locally, write for address of nearest source of supply to

The Ever-Ready Co. (Gt. Britain) Ltd.

103 Pitt Street SYDNEY

AFTERNOON SESSION.

- Announcer, Mr. LAURENCE HALBERT.
Accompanist, Mr. EWART CHAPPEL.
- 3 p.m.—"The Hen" and announcements.
3.5 p.m.—Recital by Mrs. Stuart Doyle's pupils.
4 p.m.—NAVID BENNINGTON, pianoforte solo:
"Fantasia Impromptu in E" (Chopin).
4.5 p.m.—VICTOR CALIP, violin solo:
"Ave Maria" (Schubert).
5.14 p.m.—MASTER RUSSELL BURNETT, organ:
"Hush, O my Baby" (Dugby).
5.18 p.m.—MONA WOPPELL, pianoforte solo:
"Barbara" (du Gran).
5.25 p.m.—Song:
"The Old Clock" (Drummond).
5.32 p.m.—Marching music for school children.
5.40 p.m.—PEGGY DUNBAR, contralto (from Farmer's Tea Rooms):
"The Auld Nones" (Langstaffe).
5.45 p.m.—MASTER RUSSELL BURNETT, pianoforte solo (Mrs. Stuart Doyle's pupil):
"Station on the Sea" (Crawford).
5.50 p.m.—FESSIA RITTER, soprano:
"Just for To-day" (Harding).
5.55 p.m.—Studio music.
6 p.m.—HENE DUNCAN, dramatic soprano (from Farmer's Tea Rooms):
"Menschliche Liebe" (Temple).
6.5 p.m.—Studio music.
6.10 p.m.—FRED MULLER, contralto:
"Lay there my Love" (Maccaus).
6.15 p.m.—FESSIA RITTER, soprano:
"The Bitterness of Love" (Dahn).
6.20 p.m.—PEGGY DUNBAR, contralto:
"From Farmer's Tea Rooms":
"Melancholy" (Grove).
6.25 p.m.—Studio music.
6.30 p.m.—A Reading.
6.40 p.m.—HENE DUNCAN, dramatic soprano (from Farmer's Tea Rooms):
"Fascination" (Rodin).
6.45 p.m.—Block Exchange, third call.
6.47 p.m.—FRED MULLER, contralto:
"Just a ray of sunlight" (Squires).
6.50 p.m.—Studio music.
6.55 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

- Announcer, Mr. A. S. COCHRANE.
6.45 p.m.—The Children of 2PC.
6.50 p.m.—The "Hello Man" talks to the children.
6.55 p.m.—Story time for the young folk.
6.59 p.m.—Dinner music.
7 p.m.—"The Hen." Late sporting news, by the 2PC Racing Commissionaire.
7.10 p.m.—Market reports (wheat, wheat and stock).
7.15 p.m.—Fruit and vegetable markets.
7.20 p.m.—Weather and shipping intelligence.
7.25 p.m.—"Evening News" late news service.

NIGHT SESSION.

- Announcer, Mr. LAURENCE HALBERT.
Accompanist, Mr. EWART CHAPPEL.
- 7.45 p.m.—Programme announcements.
7.50 p.m.—Studio music.
8 p.m.—"Big Ben."
8.05 p.m.—THE CRYSTAL PALACE THEATRE ORCHESTRA. Conductor, Mr. HARRY STONE.
Overture and incidental music in connection with the production of the Australian Film.
"THE TERM OF HIS NATURAL LIFE."
8.20 p.m.—GRAHAM KENT completes his series of talks on "Bridge." His subject tonight is:
"STANDARD AUTHORITIES."
8.22 p.m.—J. ALEXANDER BROWNS, baritone (from B.L.O. Melbourne):
"When The Sergeant Major's on Parade" (Langstaffe).
8.26 p.m.—CLYDE THORPE, violin solo:
"Bolero" (Bourlign).
8.40 p.m.—MARGARET JAMES, soprano:
"Love will find a way" (Slinson).

- 8.14 p.m.—THE CRYSTAL PALACE THEATRE ORCHESTRA, Conductor, Mr. HARRY STONE.
- 8.27 p.m.—J. ALEXANDER BROWNE, baritone:
(a) "Au Grand Faix" (Marie).
(b) Selected number.
- 9 p.m.—"Big Ben."
- 9.10 p.m.—H. C. THOMAS: A Talk on Dancing.
- 9.14 p.m.—MARGARET JAMES, soprano:
"I wonder if ever the Rose" (Slater).
- 9.17 p.m.—CLYDE THORPE, violin solo:
"Lullaby" (Kreutzer).
- 9.21 p.m.—AD CREE, Scotch comedian.
- 9.23 p.m.—HARRISON WHITE, banjo solo:
(a) "Barcarole" from "The Tales of Hoffmann."
(b) Fox Trot, "Ma Too" (Woods).
- 9.28 p.m.—J. ALEXANDER BROWNE, baritone (from 510, Melbourne).
- 9.31 p.m.—CLYDE THORPE, violin solo:
"Dance Extravaganza" (Grandis-Kreutzer).
- 9.35 p.m.—MARGARET JAMES, soprano:
"Blackbird's Song" (Scott).
- 9.38 p.m.—THE CRYSTAL PALACE THEATRE ORCHESTRA, Conductor, Mr. HARRY STONE.
- 9.48 p.m.—AD CREE, Scotch comedian.
"Are My Lovers Sailing" (P.H.M.P.).
- 9.55 p.m.—CLYDE THORPE, violin solo:
"Minuetto" (Miguel-Barnaster).
- 10.2 p.m.—AD CREE, Scotch comedian.
- 10.7 p.m.—THE CRYSTAL PALACE THEATRE ORCHESTRA, Conductor, Mr. HARRY STONE.
- 10.20 p.m.—HARRISON WHITE, banjo solo:
(a) "Kentucky Lullaby" (Donaldson).
(b) March, "No. 47" (Brown).
- 10.27 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA, Conductor, Mr. Frederick Leighton.
- 10.40 p.m.—CELEBRITY RECORDS from the Studio.
- 10.47 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA.
- 10.57 p.m.—Late news and announcements.
- 11 p.m.—"Big Ben." THE WENTWORTH SYMPHONIC DANCE ORCHESTRA in popular numbers. Conductor, Mr. Frederick Leighton.
- 11.15 p.m.—National Anthem.
Close down.

Saturday, July 2 2FC, SYDNEY

EARLY MORNING SESSION.

- Announcer — Mr. A. S. COCHRANE.
- 7 a.m.—"Big Ben" and programme announcements.
- 7.5 a.m.—Studio music.
- 8.10 a.m.—COUNTRY SESSION: Official weather forecast, rainfall, temperatures, astronomical information, shipping intelligence, mail services.
- 8.25 a.m.—Investment market, mining share market, metal quotations.
- 8.35 a.m.—Wool sales, breadstuffs markets, Inter-State markets, produce markets.
- 8.45 a.m.—"Sydney Morning Herald" news service.
- 9 a.m.—"Big Ben." Close down.

MORNING SESSION.

- Announcer — Mr. A. S. COCHRANE.
- 10 a.m.—"Big Ben" and announcements.
- 10.5 a.m.—Studio music.
- 10.11 a.m.—"Sydney Morning Herald" news.
- 10.20 a.m.—Studio music.
- 10.35 a.m.—A talk by the SFC Racing Commissioners.
- 10.45 a.m.—Studio music.
- 11 a.m.—"Big Ben." Studio music.
- 11.5 a.m.—A.P.A. and Reuter's Cables.
- 11.10 a.m.—Studio music.
- 11.15 a.m.—A talk on Gardening by Mr. G. J. Lockley ("Redgem").
- 11.30 a.m.—Close down.



de FOREST AUDIONS

Regardless of the set you own—its operation—is only as good as the audions you use. Experts—those who study and constantly experiment to get the most from their sets—have found the de Forest specialist audions are a truly better audion—an audion that never disappoints. Tell your dealer you want de Forest audions, and no other. If you cannot buy them, write or call direct.

Designers and Manufacturers of Specialist
Audions since 1906.

INTERNATIONAL RADIO CO. LTD.
200 Castlereagh Street, Sydney
and Wellington, N.Z.

Exide

WIRELESS BATTERIES

STANDARD EQUIPPED IN ALL THE MARCONI'S
SYSTEMS THROUGHOUT THE WORLD.

Made by the oldest and largest Battery Makers in the World.
The Chloride Electrical Storage Co. Ltd., England.

Exide "A" BATTERIES IN 2 VOLT UNITS.

Type.	Capacity.	Hours	Price each Cell fully charged.
C.2.2	40 amp.	Hours intermittent	£ 1 4
C.2.3	60 amp.	Hours intermittent	1 5 0
C.2.4	80 amp.	Hours intermittent	1 9 6
C.2.5	100 amp.	Hours intermittent	1 14 0
C.2.6	120 amp.	Hours intermittent	1 19 0

Exide "A" BATTERIES IN 2 VOLT UNITS.

Suitable for Dull Emitter Valves.

Type.	Capacity.	Hours	Price each Cell fully charged.
D.T.G.	20 amp.	Hours intermittent	0 8 6
D.F.G.	45 amp.	Hours intermittent	0 16 0

Exide "B" BATTERIES.

Type.	Capacity.	Hours	Price for bat. fully charged.
W.J.	20 volts, 2,500 milliamp.	Hours	£ 1 10 0
W.H.	24 volts, 3,000 milliamp.	Hours	2 15 0

All Batteries when discharged can be recharged.

If these cells are not fully discharged and left idle, they will stand six months without sulphating.

N.S.W. Distributors and Exide Service Station:

GIBSON BATTLE & CO., LTD.

Tel.: HUNT STREET, SYDNEY.

(Off Wentworth Avenue)

Tel.:

City 2174

Bl 3080
MA 2243.

MIDDAY AND AFTERNOON SESSIONS.

Announcer—Mr. A. S. COCHRANE.
12 noon.—"Big Ben."
Stock Exchange, first call.
12.30 p.m.—Studio music.
1.15 p.m.—Radio wireless news.
"Spitzer Morning Parade" news service.
NOTE: The whole of the events of the Rockdale Races will be described in the running by the J.P. Racing Commissioner.
1.30 p.m.—"Big Ben." Weather intelligence.
1.45 p.m.—"Evening News" midday news service.
1.50 p.m.—"Tonic" music.
NOTE: During the intervals of sporting events, musical items will be given from the Studio, including:
ERIC HARRISON, ENTERTAINER, in the following numbers:
(a) "Gnome & Little Kins" (Smith).
(b) "Knee-deep in Dulcies" (Ash).
(c) "A Humorous Experience in Switzerland" (Harrison).
(d) "My Cat's Die" (Thier).
THE WENTWORTH SYMPHONIC DANCE ORCHESTRA, conducted by Mr. Frederick Leggerton, will also be heard at intervals throughout the afternoon.
4.30 p.m.—Resume of the day's sporting events.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

Announcer—Mr. A. S. COCHRANE.
5.45 p.m.—"The Chinese of P.F.C."
5.50 p.m.—"The Hello Man" talks to the children.
6.30 p.m.—Story time for the Young Folk.
6.40 p.m.—"Big Ben" music.
7 p.m.—"Big Ben." Late sporting information.
7.15 p.m.—Weather intelligence.
7.18 p.m.—"Evening News" late news service.
7.35 p.m.—Studio music.

NIGHT SESSION.

Announcer, Mr. LAURENCE HALBERT.
Accompanied, Mr. EWART CHAPMAN.
7.50 p.m.—WIN and WINDLE, entertainers:
"Oh, Law" (Win).
8 p.m.—"Big Ben."
FROM THE ROCKDALE TOWN HALL.
A programme arranged by the Rockdale and District Scottish Association Organiser, Mr. J. Munrobin:
PIPER KEITH CLUB, Pipe section:
"Highlanders' March to Lucia Katrina."
5.5 p.m.—ALFRED CUNNINGHAM, 4, ballroom:
"Sea o' Mine" (Wallace).
8.15 p.m.—MABEL BATHCHELOR, soprano:
"Enter Bye a Wee" (Clairibel).
8.24 p.m.—HERMAN WILLIS, violin solo:
"A Scottish Poem" (McDowell).
8.35 p.m.—PEGGY DUNBAR, contralto:
"Bonny Bae" (Gair).
8.40 p.m.—ERNEST ARCHER, tenor:
"Lass o' Kilken."
8.45 p.m.—CHARLES LAWRENCE, entertainer:
Songs at the piano.
9 p.m.—During the interval of the Rockdale Concert, an item from the Studio:
WIN and WINDLE, entertainers:
"Love, and all about it."
9.15 p.m.—(Part Two) Programme from the ROCKDALE TOWN HALL, arranged by the Rockdale and District Scottish Association:
PIPER KEITH CLUB, Pipe Selection:
"Murray's Welcome."
9.20 p.m.—ALFRED CUNNINGHAM, ballroom:
"In the Heather, my Lads" (Clair).
9.30 p.m.—MABEL BATHCHELOR, soprano:
"Will ye no come back again" (Lawn).
9.40 p.m.—HERMAN WILLIS, violin solo:
(a) "Scottish Air."
(b) "Mazurka, de Concert" (Mason).
9.50 p.m.—ERNEST ARCHER, tenor:
"Lullabyen."

- 10 p.m.—PEGGY DUNDAS, contralto;
"Pat. Pat. Ann." (Roethl).
- 10.15 p.m.—CHARLES LAWRENCE, entertainer;
Songs at the Piano.
- 10.20 p.m.—"Auld Lang Syne" (A'Body).
- 10.25 p.m.—FROM THE STUDIO:
WIN and WINDLE, entertainers;
"I wonder what it feels like to be Poor!"
- 10.35 p.m.—DANCE BAND.
- 10.45 p.m.—Celebrity records.
- 10.55 p.m.—Late news and announcements.
- 11 p.m.—"Big Ben."
DANCE BAND in popular numbers until
11.15 p.m.
- 11.45 p.m.—National Anthem.
Close down.

TO SLO. A TRIBUTE.

By Dexter Mayne.

When days are warm and tennis
too fatiguing
And for other sports my energy's
too low,
My armchair then I find is most in-
triguing
And I gladly listen in to SLO.

When nights are cold and cheery
fire is blazing
And to club meetings y'r'naps I
ought to go
I do not hodge, but that is not
amazing,
I prefer the useful talks from
SLO.

When news of strikes, of polls or
wars the greatest,
By bulletins on boards the papers
show,
Not mine to watch and wait for
'just the latest'
It comes through fresh and
clear from SLO.

If my 'best half' would take me out
a-dancing,
Not mine to try the light fun-
tastic toe,
I'd rather step it mentally, a-
prancing
To jazzy tootling strains from
SLO.

No matter what the time or state
of weather,
I never have to ask "Where can
I go?"
I've no desire for getting off my
tether
When I am charmed with tunes
from SLO.

I've listened in with "Neutros" and
"Reactions"
My dyes have cracked the
JOAK of radio,
But for music, news and talks
there's satisfaction
With my little crystal set and
SLO.

FARMER'S



Farmer's new Five Valve Receiver

Price £52/10/-, Complete

Farmer's New Model 5 Valve Receiver, set in handsome Queensland Maple Cabinet inlaid with Walnut, Duco finish.

Has single dial control, each stage totally protected with Copper Shields, Cabinet provides ample space for all batteries. Supplied with high-grade accessories and loud speaker. Price £52/10/- complete.

Farmer's will erect this set free in all suburban areas.



SPECIAL NOTE

Farmer's do not
pay the carriage
on Wireless goods

Farmer's Standard 2-Valve Receiver

An ideal receiver for reception of broadcast programmes. Reception is clear and distinct, whilst its selectivity is equally remarkable, there is absolutely no interference from other stations. It is supplied in a cabinet of Tasmanian Blackwood, complete with all accessories ready for immediate use.

Price £14/10/-

Balkite Trickle Chargers, charging at 4 amps, prevents sulphating and buckling and need never be disconnected, the accumulator being charged whilst operating receiver. The operating maintenance is practically nil.

Price £4/7/6



FARMER'S, SYDNEY

Wireless Department, Ground Floor, Market St.

YOU CAN HAVE
"Wireless Weekly"

Delivered POST FREE for One Year for

13/-

SUBSCRIPTION FORM

To the Editor, "Wireless Weekly," 51 Castlereagh Street,
 Sydney.

Please forward "Wireless Weekly" for a period of

..... for which I enclose

..... for

(Add exchange to Country Cheques.)

Name

Address

Subscription Rates: 12 months (52 issues), 13/- post
 free; 6 months (26 issues), 6/6 post free.

(Continued from page 16.)

Q. (1) Diagram of aerial not used, not fit in with the diagram shown in May 27th, which again does not tally with aerial coil base shown in last panel wiring diagram in May 24th.

A. Yes, it does, with the exception of 6 being the number on top on May 27 and 4 on May 24. Can't you see that this is intended as an aperiodic primary to yield greater selectivity?

Q. (2) Can you kindly describe the construction of the aerial coil with the added primary and giving directions of winding of all coils looking from, say, the base of coils?

A. The aerial coil consists of 90 turns of No. 28 D.S.C. wire spaced 40 to the inch on a 2 inch former. The aperiodic primary may be from 15 to 25 turns of the same gauge wire wound below this. For extra coupling purposes the grid coil of 90 turns is lapped at the 10th and 15th turn from the bottom end. Both coils are wound in the same direction. If desired, the aperiodic primary may be wound on a 1 1/2 inch of an inch former like the other primary windings, and fitted inside the 2 inch secondary. I hope this is clear to you.

Q. (1) (BRISBANE, Q.)—Q: I would be grateful to you if you could answer this question for me. While listening on Sunday, 29th May, to Station 3PC on a three valve set, at Saturday night, I turned the condenser back a few degrees and I heard someone speaking. They were telling a story about a little robin that loved a stone, also a story about a great prince who lived in Babylon, then a gentleman sang a song about the stone. Next a gramophone record of an imitation of birds. It was about 6.45 p.m. Then they said "Good-night everybody until next Saturday night." I turned the microphone (ill station) 40G started, but heard nothing more.

A: I don't know. You see it is a million chances to one that I may be listening to a given station at the same time as any reader. Quite respectfully do I suggest that readers don't send me these inquiries, as it is invariably beyond me to reply. I can only conjecture at any time. In this instance, perhaps, some one may be able to answer this query of S.C.M.'s of Brisbane, but please don't send any more questions of this type.

ENQUIRER (BRISBANE, Q.)—Q: (1) I have built the 2 v. Belmont receiver of 15th October, 1926, and would like to know what wave lengths does it cover?

A: From 200 to 675 metres.

Q: (2) Without altering any other part of the set, could I wind coils to suit the short wave band? If so, would you please publish the specifications of the coils, showing method, number of turns, and gauges of wire?

A: Yes; but the coils would have to be interchangeable. See "Radio" for May for further particulars.

H.V.R. (LANGREACH).—Q: I am contemplating building the Solodyne Five Valve, I would like you to answer the following questions—

I have three Philips E 406 Valves; would it be possible to use these, and where would it be best to use them? And would the 25 Filament Ballasts be alright? If not, what do you suggest? I also have (1) 21, to Am Signal Transformer and (2) 5 in one, would these function as well as (2) 30, to use? Would the ordinary 2 to 10 Filament Condensers be as good as the Tube Fixed Condensers, as I do not see any Tube Condensers advertised? In place of Barker, what kind of wire would you suggest?

A: The 21's would be suitable for detector and two audios, but 4 volt I am. Heater Ballasts would be necessary. Transformers and condensers suitable. Amagetti covered wire or Fort may be used instead of baklar.

A.H.S. (PENTLAND, Q.)—Q: (1) The Radio frequency unit of "Radio" 18/4/27. Could this be used with a set having one or two stages of Radio Amplitude? When connecting up, would it work equally well with separate A. and B batteries, or in the same battery as used for the operation of the main set? When using separate batteries, would both the set and the unit be earthed as usual?

IF YOU WANT THE NEW

RADIO

IN AUSTRALIA
 & NEW ZEALAND
incorporating "Sea, Land and Air"

DELIVERED POST FREE FOR ONE YEAR

Avoid delay or disappointment
 by forwarding the following

SUBSCRIPTION FORM

To the Editor "Radio," 51 Castlereagh Street, Sydney.

Please forward "Radio" for a period of

..... for which I enclose

..... for

(Add Exchange to Country Cheques.)

Name

Address

Subscription Rates: 12 months (12 issues), 13/- post
 free; 6 months (6 issues), 6/6 post free.

X.1. May be filed with only one stage of R.F. or just before the detector valve. Same batteries will do.

Q.2. (2) The Atlas Two. What size of loop and number of turns to same? Where tapped? Also for use with outside aerial, what number of turns for the coils, using a 2" lock tube, and what spacing between coils?

A.1. See "W.W." 1, 4, 27.

W.B.B. (WALLGATA).—Try securing your coils and test primary of first A.F. transformer. I haven't yet heard any set to beat the Neutrodyne.

CONSTANT READER (WAVERLEY).—You are asking too much. Build the Hale. No copies of "W.W." 22-12, 23.

J.H. (PUNCHBOWL).—Don't advise adding A.F. to this set. Read the article again carefully.

D.H. (GRANVILLE).—The Browning Drake.

P.H. (DOUBLE DAY).—Your set is a good one and should give you inter-State stations for your dealer again.

G.B. (KOGARAH).—Better call at Ermingham Radio Hives and look in their windows in the Arcade. Your locality should do the trick.

G.K.T. (NEUTRAL HAY).—Either a faulty grid leak and condenser or your detector drive is intermittently touching on the grid. Take your valves to your dealer and get a Jewell Checker on to them. The hum is natural.

R.C.B. (LEETON).—I can't sell you from my message particulars. Write Phillips Glow Lamp Works asking for the impedance of the valves you have. If of 25,000 or 50,000 ohms, then they would be suitable for the radio and detector, but get advice for the induct.

S.Y.M.M.E. (WAITARA).—See reply to G.F. (Wainfara).

E.K. (LITGOW).—Evidently you have a very soft valve. The ringing sound is due to microphone noise in the detector valve. Install a Henlein's under and also a Bradley-stall.

M.C. (CHATWOOD).—See "W.W." 17/6/27 for the Hale Two.



Registered Trade Mark.

Published by Arthur William Drake of "Pictorial," Lavender Street, Lavender Bay, for the Proprietors Wireless Newspapers Limited, 21 Castlereagh Street, Sydney; and printed by Marchant & Co., Ltd., 81a Goulburn Street, Sydney.

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

Subscription rates.—Twelve months 125 (post free), Six months 65 (post free), Single copies 2d, each or post free. Ad. Subscriptions should be addressed to Wireless Newspapers Ltd., 21 Castlereagh Street, Sydney.

Advertising.—Our advertising representative keeps in close touch with advertisers, and he is ready at all times to supply information concerning advertising.

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

"Wireless Weekly" is fully protected by copyright, and nothing that appears in it may be reprinted, wholly or in part, without special permission. The use of our articles or quotations from them for any purpose whatsoever is never permitted without our written authority.

The Resco Neutrodyne!

We have made great claims for our wonderful set, and we are pleased to say that all our claims have been substantiated.

Hundreds of satisfied users have written telling us of the wonderful results achieved by the Resco Neutrodyne.

Read what Mr. Stanley Brett, of Thangool, Queensland, says:—

"I am getting wonderful results with the Resco Neutrodyne receiver. I will give you a small list of stations that I have already logged on the loud speaker:—1YA, 4YA, 6KA, 5DN, 5CL, 3LO, 3DB, 3AR, 2FC, 2BL, 2GB, 2KY, 2UW, 2UE, 2BE, JOCK (Japan), and many amateurs. . . . I am well satisfied with these results, considering the price. There is one set in this district which cost £32/-, and for distance getting this Neutrodyne has 'put it across' the more costly set."

This is typical of many letters which we have and you are invited to come and see them for yourself.

Hear the Resco Neutrodyne at our showrooms or in your home.

LOOK AT THE PRICES!

Table Model (a)	£19 10 0
Floor Model (b)	£27 10 0
Polished Maple or Oak.	
Floor Model (c)	£29 10 0
Polished Rosewood.	

All Models handsome in appearance, and add to the furnishing of the home.

Easy Terms. Easy Terms.

A Small Deposit permits you to take one home.

The Greatest Achievement in Radio History

We have landed the Resco Batteryless Receiver. Watch next issue of "Wireless Weekly."

Price, £27/10/-

Local and Interstate Distributors Wanted.

Radio and Electrical Supply Co.

40 PITT STREET — (near Quay) — SYDNEY

Phone B1817



Use T. C. C. Condensers

Next time you want fixed condensers for your Set, buy T.C.C. British Condensers. They are fully guaranteed for Accuracy and Long Life, will eliminate noises, prevent short circuiting and wonderfully improve reception.

All Sizes are obtainable from Radio Dealers Everywhere. Wholesale from

Lawrence & Hanson
Electrical Co. Ltd.

21 YORK STREET, SYDNEY.
15-17 CHARLOTTE ST., BRISBANE.
(W-M.F.)

Manufacturers Products Pty. Ltd. (M.P.)

(H. J. HAPGOOD)

Challis House, Martin Place,
SYDNEY

TEL.: BW 1328



Agents for all Styles of Radio Products,
Including Clyde Batteries.

Elec. Meter Mfg. Co., "Emmo."

Remade Condensers, Leaks and
Fixed Rheos.

Airzone Rheos, Pads, Special Coils
and Loops.

Neutron Crystals, Brunet Phones,
Prompt Edgements from Sympex.

We represent 24 Foreign Radio
Manufacturers.

Write for Instant List.

Surplus Stocks sold Interstate.

Warneford & Son RADIO ENGINEERS

Bring your Radio troubles
to us.

Is your receiver selective?
If it isn't, let us know. We
will remodel your receiver
along modern lines to pro-
duce maximum efficiency.

Local conditions play a big
part in good reception.

We will design and build a
receiver to suit.

Rewiring faithfully carried
out at reasonable rates.

Write Box 967, G.G., G.F.O.,
Sydney.

Phone: Pet. 1045 & X 3149.

SLINGSBY & COLES LIMITED



Under Central Station

482 PITT STREET, SYDNEY

THE RELIABLE RADIO HOUSE.

Our New "SEPERTONE" is
TRULY A WONDERFUL RECEIVER.
Complete with Speaker, handsome
Cabinet, Accumulator Speaker, B,
Rheo, and Valve. Nothing extra in
key.

£18 10.- Cash

HEADPHONES (New System)

Headphones, New System, 500 pair
to be sold. Not 25/- per pair

but ONLY £15.- per

pair. All Guaranteed.

POSITION WANTED, by Expert
Radio Mechanic, long experience in all
Types of Sets, at present holding
charge position with his city firm, an
alternative would take contract work in
repair, and alterations, specializing in
Super-Hets, Own Workshop, Apply,
"Mechanic," "Wireless Weekly."

COMMONWEALTH PUBLIC SERVICE.
Vacancies for Junior Mechanics in Training,
Postmaster-General's Department.

A competitive examination for appointment
to the above vacancies will be held on the
22nd October, 1927, of candidates (males)
who, on the 1st February, 1925, will have
reached the age of 14½ years, but not 37
years. Full particulars may be obtained from
the Commonwealth Public Service Inspector,
Commonwealth Bank Building, Martin Place,
Sydney. Applications must be forwarded to
reach the Secretary, Commonwealth Public
Service Board, Melbourne, on or before the
3rd September, 1927.

C. H. B. WHITE, Chairman,
Public Service Board of Commissioners.

R. W. PATTERSON Radio Engineer.

LET ME SOLVE YOUR RADIO
PROBLEMS.

If your set is non-selective or in-
efficient in any way, I can help you.
I will modernize your receiver to suit
your requirements.

Distorting Sets altered to give sweet
natural tone.

Allow me to design and build a set
to suit your locality.

All the best known makes of sets can
also be supplied.

I will call and adjust your receiver
to give maximum efficiency for a small
fee.

COUNTRY CLIENTS—I will buy your
parts at very best calling prices free
of charge.

All orders mailed the same day as
received.

Call or Write to

90 Pitt Street, Sydney

(Near Martin Place).

To N.Z. Readers

When sending cash for sub-
scriptions or copies of "Wire-
less Weekly," do not send N.Z.
Postal Notes, as these are pay-
able in New Zealand only. The
surest way is to send a money
order.

*You will get the Stations you want
Clearer and Better with*
Radiotrons

RADIOTRON UX 171.

A new power Radiotron, designed to operate loud speakers at considerable volume with a minimum of distortion. Intended for use in the last audio stage only.

Price, £1/15/-.



UX 171

RADIOTRON UX 112.

A new power valve similar to the familiar UV201A, but several times as powerful. For use as last valve in accumulator operated sets. Will deliver far more energy than the average loud speaker requires. Two of these valves will give exceptional results.

Price, £1/15/-.



UX 112

RADIOTRON UX 200a.

A wonderful detector of great sensitivity. It is an ultra vapor valve, and employs a new type of filament. One point of great value about this valve is that both the filament and plate are non-erittal.

Price, £1/16/-.



UX 200A

THE equipment is as important as the set. The range of a set depends a great deal on the valve in the detector socket. The over-all performance of the set depends very much on the valves in every socket. The Volume and Tone quality you will get are dependent on the valve in the last audio stage. On every point the valves are as important as the set, and everyone who realises this insists on genuine Radiotrons. Look for the Genuine Radiotron Seal.

UV-199	Price	13/-
UX-199 .. .. .	.. .. .	13/-
UX-201A .. .. .	.. .. .	11/-
UX-120 .. .. .	.. .. .	15/-
UX 240 .. .. .	.. .. .	13/-
UX-210 .. .. .	.. .. .	£2/10/-

WRITE FOR "RADIOTRON BOOKLET"—GRATIS.

AT ALL RADIO DEALERS OR AT

Amalgamated Wireless

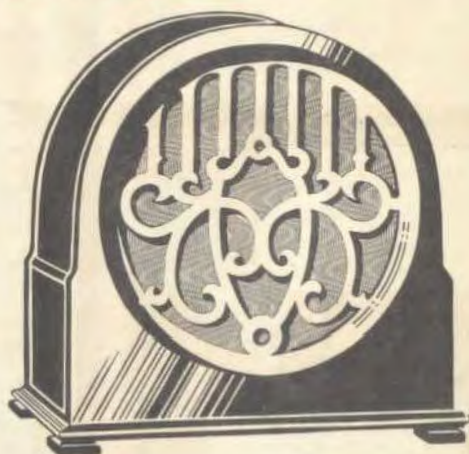
(Australia) Ltd.

Sydney Melbourne Adelaide
and Brisbane.



Radiotrons

Radio Realism!



Amplion Cone Speaker,
in handsome mahogany
case. £8/8/-

YOU will never appreciate the fullest beauties of radio reproduction until your radio set is coupled to a

**CONE
AMPLION
SPEAKER**

Other Amplion models
from 25/- to £9/10/-

Music — from the highest to the lowest range—
and speech (the crucial test of any loud speaker) are
indistinguishable from the original performance.

“When there is a better Loud Speaker it will be an Amplion”