

WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 10

Registered at the G.P.O., Sydney, for
transmission by post as a Newspaper.

NUMBER 6

*Receiver
Develop-
ment
1923
to
1927*



Friday, June 3, 1927.

Price Threepence

UNRIVALLED!

SELECTIVITY, VOLUME, TONE and RANGE

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 1610918

British and Canadian Patents Pending

Professor NICHOLSON writes:

The Manager, United Distributors, Ltd., 72 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 conditions are favorable, 8LO, 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 25 stations.

N.S.W.: 2BL, 2PC, 2GB, 2KY, 2BE, 2UE, 2UW, 2BI, 2PK, 2GO. VIC.: 3LO, 3AR, 3DB, 3SW,

3BY, 3RS, QLAND: 4QG. S.A.: 5CL, 5DN, 5KA. 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
7	" "	£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 Chesser 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	

BENJAMIN VALVE SOCKETS

First in Quality and Performance



Type 9040.

(as illustrated) Price 5/-
By replacing the old type of socket in your set with the Benjamin Cle-Re-Tone 'Push' Type Socket, you positively eliminate tube jar and resultant microphone Noises.

**BENJAMIN
CLE-RE-TONE
"PUSH"
TYPE SOCKET**

Some of the outstanding features of this socket are :

1. It is compact and neat appearing.
2. Side Wiping contacts, insure perfect electrical connections to the tube prongs.
3. Suspension spring and contact member are made in one piece, thereby eliminating the high resistance joints.
4. All metal parts are heavily nickelated.

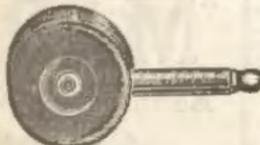
No. 9040 is without lower mounting base and is intended for direct panel mounting. They include a drilling template and four machine screws with nuts for attaching.



TYPE No. 9049.

Price 3/6

BMS PRODUCTS



"Jero" Quick Change Automatic Plugs are designed to give maximum service with minimum effort. The terminal tags of the Loud Speaker Cord or Phone Cord, are merely pushed into the plug, and a firm electrical contact is established. Should it be desired to withdraw the cord, the action is smooth and easily accomplished.

Price, 2/6

They have made good in every respect—ease in soldering and inspection, quality of materials and a moderate price. B.M.S. Fantail Jacks are without fault.

Open Circuit	- -	2/9
Double Circuit	- -	3/-
Single Open Fil. Control	- - -	3/6
Double Closed Fil. Control	- - -	4/6
Loop	- - -	2/9



Connections
cupped and
spred apart



The B.M.S. switch is constructed with the fantail cupped lugs for easy soldering. Silver contacts bakelite insulators, polished nickel-plated panel nut and positive snap. Price 3/9

OBtainable at all Radio Dealers, or at



MELBOURNE
ADELAIDE

Amalgamated
Wireless
Australasia Ltd.

SYDNEY

BRISBANE
WELLINGTON,
N.Z.



The "IMPERIA" Neutrodyne Kit

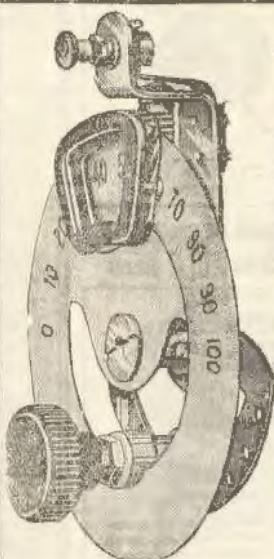
Every amateur can build his own Neutrodyne set with this improved Kit. Contains ready-mounted Neutroformers, .0006 s.t.t., condensers, newest type Neutrodens, and template for pasting on panel to drill holes, together with full instructions and hints.

Price £4

EASY TERMS
£1 down, 2/6 week



The New Mar-Co Illuminated Vernier Dial



The numbered markings are clearly shown through window by a small light at the back—a feature that gives added distinction and utility to your set.

22/6

Harringtons LTD

Friendship Built on
Public Confidence Since 1893.

386 George St., Sydney.

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

"MARS" Aerial Wire



For Improved
Reception

Constructed from 84-strand copper, this aerial wire ensures vastly improved reception, selectivity and volume and more easily secured.

12/6

per 100-feet
reel.

WIRELESS WEEKLY

VOL. 16, No. 8.

FRIDAY, 3RD JUNE, 1932.

The Jolly Rodger

Y.O., ho! and a free programme.

The shades of Long John Silver, Bill Bones, Flint, Kidd, Morgan, and their merry comrades are in the land hoisting a ghostly skull and cross-bones to the mast-heads of a thousand aerials.

Piracy with its stirring thoughts of daring and defiance shelters a swaggering company, even when it is a pleasant and profitable undertaking instead of the refuge and revenge of the driven. The days of the plank and the cutlass are gone, and now under its romantic name, men conceive fancied grudges against government and broadcaster as an excuse for dishonest subterfuge.

The wireless pirate, fortunately, is not progressive like his predecessors, for it is not fear that makes him an outlaw, but the opportunity of getting something for nothing with a minimum of risk. Often he is not even a pirate through choice or circumstance, but merely forgetfulness.

He is there, however, and his existence menaces the progress of broadcasting. In South Africa he has forced a large broadcasting company into liquidation; in Canada, where the collection of fees is not left alone to the disinterested and overworked postal clerk, he has been reduced to small numbers; in England, where every man has a neighbor, and there are no long distances to cover, he is more easily detected; in Australia, where there are long distances, he laughs with impunity at the feeble efforts to catch him.

It is the long distances which have presented the opportunity of getting

something for nothing to the pirate listener, and made it difficult to make him share the cost of his entertainment with other listeners. In New South Wales, outside the cities of Sydney and Newcastle, there are approximately 1,180,000 people, and 4,000 licenses, or roughly one license to every 300 people. The striking contrast of the city figures (one license to every 25 people) is not wholly explained by the proximity of the city sets to the broadcasting stations. This can be easily realised when, working these figures out on a basis of averages, we see that a large city like Broken Hill has but 80 licenses, or, coming closer to Sydney, Lithgow has but 54, East and West Maitland 46 between them, Goulburn 37, Bathurst 31, Albury 27, Wagga 28, Orange 26, Wollongong 25, Tamworth 23, Dubbo 17, which any traveller will tell you is absurd on the evidence of the aerials in these cities, whose populations vary from 24,000 to 5,000.

There is no doubt whatever that the wireless pirate is undermining the whole of the broadcasting system.

It is the duty of every licensed listener to see that all assume a fair share of the cost of the programmes. He must join the great Armada to sweep the pirate from the seas—to hang him from his own yard-arm that we may not hear the remainder of that ghostly chanty, the first line of which heads this article.

*Fifteen stations in the old
junk chest.*

*Debt and despair have done
for the rest.*

Yo, ho! and a free programme

Between You And Me And The Microphone

Conducted by Jack Plugge



THE INCREASE in the number of listeners since station IYA was opened is 7,407 (Auckland figures only). The same figures in respect of station 3YA are 3,464.

IT IS THE INTENTION of the Radio Broadcasting Company of New Zealand to improve programmes considerably when the number of licensed listeners reaches 40,000. Mr. C. McNaughton, secretary of the Post Office, is of opinion that this object will be attained in a year's time.

THE NUMBER of re-registrations, and new radio licenses issued in the various parts of New Zealand since the beginning of the month of April is 16,517. Last year the number of receiving licenses issued was 18,162. The figures for the chief centres were:—Auckland, 8,860; Christchurch, 4,410; Dunedin, 1,546; Wellington, 3,346.

THE ROYAL AUTOMOBILE CLUB of Victoria has instituted a special "safety first" campaign with the co-operation of SLO, and it is hoped that the dangers of motoring may be minimised as a result of the propaganda. Every night the studio broadcasts a special message to motorists, cyclists, and pedestrians concerning traffic problems and behaviour.

SOME LIVELY NOCTURNAL experiments are likely to take place very shortly involving all the European stations which work on wavelengths above 600 metres. The tests, which were planned by the Bureau International de Radiophonie at its last meeting in Brussels, will represent an attempt to formulate a scheme for the long wavelength stations similar to the famous Geneva plan for the medium and short wave stations.

WHILE Prof. L. A. Hazeltine, the creator of the Hazeltine circuit, was conducting his experiments, he took the precaution of keeping notes in his "laboratory note book." Upon one of these notes, as events proved, patent rights valued at 1,500,000-dollars hung.

FIRST RADIO AMATEUR: Is your transmitter insured against theft, fire, storm, and accident?

SECOND RADIO AMATEUR: God only knows—I've just finished reading the insurance policy.

IT IS ANNOUNCED from Moscow that Lenin's widow, who still keeps her assumed name of Mme. Krupskaya, is devoting all her time to the extension of radio as an agency for the education of the Russian people.

THE RECENT DECISION to allow sermons to be broadcast on Sundays in France has led to a special ruling by the Cardinal Archbishop of Paris, who announces that the general authorization of preachers of sermons does not extend to sermons which are to be broadcast. No sermon or lecture on a religious subject can be broadcast without a special authorization in each case. Furthermore, the text must be submitted first to the Archbishop.

ACCORDING TO A REPORT, a method of wireless telephony employing ultra-violet waves has been discovered by a German engineer. If this is true, the way is opening up for a new and wonderful era which may well revolutionise the wireless system as we know it.

A REPORT ISSUED AT WASHINGTON, D.C., by the United States Department of Commerce, says that there are 164 broadcasting stations in Europe, over 700 in the United States, 85 in the remainder of North America, 38 in South America, 18 in Asia, 28 in Oceania and 9 in Africa.

A SET capable of receiving a thousand miles in Australia is not effective for more than 500 miles in India, due to peculiar atmospheric conditions there.

The photograph of the North Pole taken by airmen discloses only a hole in the ice. It is presumed that some unscrupulous Eskimo stole the thing for this antenna.

THE SALES of combination radio and talking machine instruments made by the Victor Company in U.S.A. during 1926 had a retail value of something over five and a half million pounds, amounting to one-sixth of the total business of the company.

Do You Know Your Radio?

A series of questions treating radio in a new and interesting way, with their answers, will be published weekly in this section. How many can you guess without turning to the answers on page 13?

SERIES 3.

1. Can a piece of cake be used as a crystal?
2. Who are the members of the Royal Commission on wireless?
3. What does QST mean?
4. Why is it that a 240 volt wireless "B" battery will not give you perceptible electric shock, whereas a 240 volt shock from the lighting mains will probably kill you?
5. What is the ST100?
6. Who is Billy Bunny?
7. Who invented the Morse code?
8. Who controls 4QG?
9. Which broadcasting station in Australia has carried out the greatest number of land line transmissions?
10. What does the word radio mean? What is its derivation?

THE REV. DR. ELLISON, of Arimage Observatory (Eng.), has heard America on a 2-dol. crystal set. He sent up a box kite made of linen and light wood, to a height of 2,500 feet, and run out with steel piano wire, which was grounded and connected with the small crystal receiver. American stations were heard with the same clarity as local ones on tube sets. A 15-mile-per-hour gale was blowing, but the kite quickly reached 1,000 feet.

Modern Radio Receivers

The development of the modern radio receiver is fully explained in this article couched in simple technical terms understandable to all.

By H. C. WILLSON

Chief Radio Engineer A. J. Stephens & Co. (1914) Ltd., a world famous manufacturing organisation now producing radio receivers.

IT cannot be too emphatically stated that the design of radio receiving apparatus has emerged from its state of flux and is becoming stable and is in much the same position that the automobile occupies; there is, however, unquestionably room for improvement, the elimination of static being perhaps the most important avenue open to the research engineer, but at the same time there is very little likelihood of any startling developments such as have been heralded from time to time in the daily and more sensational wireless press. New receivers have been announced with a flourish of trumpets in which three valves are to do the work of seven, eight or ten, new circuits have been hinted at which will revolutionise the industry, but although some of these revolutionary ideas have even got to the stage of production, none to date have achieved commercial success. The design of radio receivers has undoubtedly stabilised itself into the following classes: Receivers comprising a detector and one or more stages of audio-frequency amplification; receivers with one or more stages of tuned radio-frequency, a detector and one or more stages of audio-frequency stages being either shielded, neutralised or provided with some means of nullifying the self-oscillation which is bound to occur in a radio-frequency amplifier which is performing its natural function of amplification; and lastly, the superheterodyne.

As is well known, the past models of popular radio receivers have come into the first two classes and when the question arose of re-designing English products to bring them in line with modern practice, the whole of the field of radio-frequency amplification was most carefully reviewed and many experiments conducted to determine whether modern American practice in shielding, etc., was a satisfactory solution to the problem, the final decision being to manufacture but two types of receiver embodying in both the very latest and most efficient circuits irrespective of the cost involved. The circuits decided upon were: A detector of

greatly improved design followed by one and two stages of audio-frequency and a Superheterodyne circuit employing 5 and 7 valves.

Let us review the situation and see what we demand from a radio receiver; in view of the fact that it must be capable of operation by all types of people, mechanically minded and otherwise, musical or not, highbrow or lowbrow, the radio receiver must primarily be simple to operate. The writer places this in the foreground because whatever other attributes a receiver may have, if it be well-nigh impossible to obtain the remainder except by, or under the supervision of a radio expert, its value is negligible to the multitude. Granted the foregoing, we may reasonably agree that in the second place should come purity of tone of the reproduced music and speech; it is of little use to be able to hear London or New York from the Australian Continent if the reproduction is so distorted as to be unenjoyable. Thirdly, we may place selectivity, for, although in Australia selectivity may not be required to enable the user to eliminate the nearest broadcasting station, yet it is a factor in the overall efficiency of the receiver. Fourthly, and lastly, the reproduction should be of sufficient volume to enable the broadcast programme to be enjoyed without effort in the average sized room or within reasonable proximity of the reproducer in the open air.

A few words as to the reason of the abandonment of the tuned radio-frequency type may be of interest; the modern Radio Receiver is entirely enclosed within a cabinet with the exception of the necessary controls, and by so doing, the electrical re-actions of one part upon another are increased, especially if a multi-valve receiver is kept within reasonable over-all dimensions. To prevent this re-action causing undesirable oscillations, it is necessary either to neutralise the re-action between various components or to introduce a re-action of exactly equal and opposite phase, or again, to shield or encase all or parts of the apparatus in metal containers. The neutralised



Mr. H. C. Willson

Receiver is well known under the generic title of the "Neutrodine," as developed by Professor Hazeltine in America, but during the last year this type of tuned radio-frequency amplification was abandoned by a number of manufacturers in favour of a shielded receiver of the type to be met with in modern American practices; of course, sufficiently good shielding may be obtained to prevent certain harmful effects, but sensitive instruments will still show the effects of leakage through shields of nearly perfect construction.

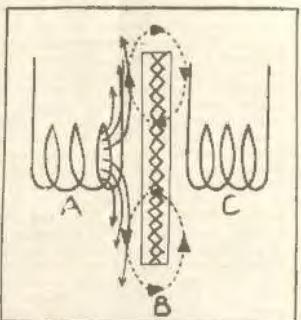
If a plate of copper or brass be placed between two co-axial induction coils, as shown in the figure herewith, when a current is established in coil "A" a flux is generated as shown by the arrows, and currents are induced in the plate similar to those shown at "B"; therefore, the flux which is established by these currents in the plate is opposed to the flux of the coil "A". The currents in plate "B" tend to prevent any action between coil "A" and coil "C" on the opposite side of the plate, but by investigation we find that due to the resistance of the sheet "B," it is impossible to prevent some action of coil "A" upon coil "C." Clerk Maxwell has shown that a perfect shield or screen between "A" and "C" must have absolutely zero resistance, and an infinite area; were such a shield possible, any current in "A" will develop in the perfect shield a current such that its magnetic force at any instant is opposite and equal to the force approaching it from the coil being shielded, and in this condition no action can take place upon a coil on the opposite side of the shield. From theory, we can de-

finite ascertain that perfect shielding is not possible, but at radio-frequencies by careful designing, excellent magnetic screening may be obtained, but although such shielding may not change the pure ohmic resistances of the coil at radio-frequencies, it does change all other characteristics, the coil resistance will be increased by the resistance of the shield itself, and if the shield is connected to part of the electrical circuit (particularly if the coil being shielded is also connected to that same part of the circuit, i.e., if both are grounded), there will be an increase of from 3 per cent, to 300 per cent or 400 per cent of the effective resistance. An additional disadvantage of shielding is that a shield may even permit magnetic coupling between two or more inductances, which, without the shield, would have zero coupling. Probably the most serious disadvantage is the increase of the distributed capacity of the coil, and an increase of the high frequency resistance; in fact, the tests of an inductance in proximity to a variable condenser in our Research Laboratory, has shown an increase of high frequency resistance in the coil of 22 per cent, with the condenser plates fully in mesh and an increase of 55 per cent, with the plates set at minimum capacity, at a given frequency; the effect of completely enclosing a coil is to increase the self-capacity more than a simple sheet between the coil in question and another from which it is proposed to shield it, and this effect again is increased when the shield forms a part of the circuit. A very complete demonstration of the effect of introducing a metal plate into the field of an inductance is afforded by one well known broadcast radio receiver in which the tuning of the coil is effected by the movement of a metal plate into its field!

In order to avoid the use of various neutralising patents, the American manufacturer has, as was mentioned a few paragraphs earlier, either constructed a shielded receiver or one in which oscillation is prevented by what has been well christened a "loser," in other words, either a variable resistance in the plate or grid circuits. While such forms of oscillation control are undoubtedly effective, it is an acknowledged fact that they are extremely inefficient; if a potentiometer is used to stabilise the circuit of a tuned radio-frequency amplifier operating on the frequency of the signal the amount of positive bias supplied to the grid results in a loss of amplification and an increase in the "T.T." battery current, besides reducing the selectivity of such circuit to which it is applied; a variable resistance in the grid circuit either at the filament or grid end has the effect of reducing the selectivity and sensitivity of the

circuit. Other forms of oscillation control are in use in the United States, the coupling of the coil in the plate circuit to the following grid circuit being varied according to the frequency, and in one instance the inductance of the plate circuit coil is also varied at the same time; whilst this is undoubtedly an excellent method, the majority of manufacturers are practically debared from its use by the patent situation.

In view of the fact that a number of tuned stages require either an abnormal number of controls or, if coupled together, mechanically in order to become a single or two controlled receiver, necessitate extremely careful balancing which requires but little alteration to render unstable (the change of a valve being in some cases sufficient to render the receiver well nigh inoperative), the policy decided upon was, as before stated, to concentrate upon but two distinct circuits.



A plate of copper or brass between two coaxial inductances.

The first was a modification of the "Rice" circuit in which a re-action is controlled by a variable condenser; briefly, the detector circuit consists of a coil with a centre tap, which is connected to the filament of the valve and to the earth terminal, one end of the coil is connected to the grid through the usual grid condenser and grid leak, the other end of the coil is connected to the plate of the valve through the variable re-action condenser, the whole of the coil being shunted by a variable condenser which forms the main tuning unit. Owing to the special construction of the coil and the lay-out of the circuit, extraordinarily selective tuning results, whilst the very delicate control of re-action made possible by the circuit in question permits the reaction to be brought to the point of

maximum efficiency with the minimum amount of trouble or expense. The audio-frequency amplifier is transformer coupled, the transformers having laminated cores of special transformer steel, each lamination being insulated from its fellows; the core is of extraordinarily generous dimensions, with the result that it is at no time in a state even approximating to saturation. The transformer coils are wound on automatic machines, each layer being separated from the next by a criss-cross cotton winding; the whole coil after winding is impregnated with paraffin in a vacuum after a previous baking, ensuring that there is absolutely no moisture present and that the entire winding is proof against climatic and weather conditions.

The second was a superheterodyne circuit, the design of which has been evolved through many months of patient design and experimental work, and whilst there is nothing radically new in the actual circuit employed the various constants throughout the circuit, the design of the inductance transformers and the general layout show by their very simplicity the immense amount of labor expended on bringing these receivers to their present pitch of efficiency and perfection of reproduction. The method of construction is entirely new and is vastly in advance of the metal chassis form of construction, for whilst it embodies the rigidity and permanence which this construction affords, it is entirely free from its inherent disadvantages.

Briefly described, the amplifying unit of the receiver consists of a skeleton framework, upon which are mounted a number of small valve panels, upon which are mounted the components forming the circuit of that particular valve; these are wired individually, the final wiring to conductors common to two or more valves being rigid busbars supported on insulating material carried by the framework itself. Thus it will be seen that each individual valve stage and each complete receiver is absolutely uniform, both as regards the length of leads between valves and their associated components and as regards the unit in its entirety.

An additional advantage accruing from this method of design is that, with the exception of the busbars all connections are made by stranded flexible wires, which are drawn through holes in connecting eyes and soldered in place; these lengths of wire are quite short, the method of construction ensuring freedom from breakage of soldered joints such as not infrequently occur in transit when receivers are built with considerable lengths of rigid busbar wire.

It's All in the Air

Coming Features in the Broadcasting Programs

TALKS FROM 2FC. A number of interesting talks have been arranged by 2FC, including a second series by W. F. Kay, whose reminiscence chats of old stage favourites are intensely interesting. The following are covered under the new series:

"A WALK IN CENTRAL AFRICA," depicting a trip to the Absarokee Mountains, when Hippos, Elephants, Leopards, Monkeys, etc., were met with.

"UNDER THE ROOF OF THE JUNGLE," telling about the life in Malayan jungles.

"THE GORILLA AT HOME—HIS CHARACTER AND LIFE," and a story and hunt.

"HUNTING WITH THE ABORIGINES." Experiences with the Australian Aborigines in the field.

"ANIMAL CHARACTERS." Bravery, kindness, co-operation in hunting, love and courtship, etc.

Talk on Snakes, and also a talk on Animals which attack human beings. Mr. W. F. Jackson will give a series of four special popular lectures upon four great modern writers and dramatists, viz.—

France—Anatole France, novelist.
Italy—Luigi Pirandello, dramatist.
England—George Bernard Shaw, novelist and dramatist.

America—Eugene O'Neill, dramatist.

Mr. S. H. Bowden will speak about "England's Baronial Castles," and Captain Fred Aaron will tell of "The world 20,000 years ago," "The world 1,000 years ago," "The world 500 years ago," and "The world 100 years ago."

"ORPHANS' WALL" will be broadcast from Warrington Hall, Neutral Bay, on Tuesday, 7th, and will include items by Fraser Coats, baritone; Alfred O'Shea, tenor; Charles Lawrence, entertainer; Alfons Cunningham, baritone, and Sid Beck, comedian. During the interval, between 9.15 and 9.50, listeners will have the pleasure of hearing for the first time the visiting Continental pianist, Miss Florence Munkmeier, who toured Australia some years ago with great success. During her short stay in Sydney, she has contracted to make four appearances with 2FC, and on June 7, she will broadcast a programme from Paling's Saloon, which will be a delight to listeners. Her further appearances are set down for 9th, 10th and 11th June.

THE "TIP TOES" ENTR'ACTE was broadcast more successfully on Friday, May 29, by 2FC. This brilliant Jazz Rhapsody by Gershwin is excellently rendered by Henry Penn and Jack Wright, and will be put on the air again on 10th June.

"THE SPARKLERS," directed by Rus. Garling, will make their initial bow to their unseen audience on June 8. These apparently "go no you please" entertainments are not so easy to work up as they are to listen to, but to quote one listener—"even the actors seem to be enjoying themselves." Surely there is no greater praise!

2FC'S ALL NIGHT DANCE Night on 17th May proved so popular, in response to the insistent requests from many listeners, another radio dance night has been arranged for Saturday, 18th June. Dance music will be broadcast until midnight throughout the whole State, and the funds thus subscribed will be devoted to the installation of wireless in hospitals at present lacking this boon.

ON JULY 24th 2BL will broadcast a Church Service from Chalmers Street Presbyterian Church, which is being specially delivered by the Rev. D. F. Brandt, for the islands of New Hebrides. Mr. T. Macmillan, the Clerk of the Synod who is situated at Tanna, New Hebrides, has specially requested that this be done for the benefit of all those in the island who listen in to 2BL regularly.

MR. RAIMUND PECHOTSCHE, whose violin playing is an attraction to listeners to 2BL, was one of the principal professors of violin at the Guild Hall School of Music, London, the London College of Music and the London Academy. He was Musical Director of the Lyceum Theatre, London, and also played at the Queen's Hall and Imperial Institute.

MR. OSCAR LIND, Broadcaster's All Sports Expert, speaks from the Studio of 2BL on Monday, Wednesday and Friday nights regularly on all branches of sport. Mr. Lind is an ex-international soccer player. His subject on Monday nights will be "General Sporting," Wednesday "Boxing," and Friday "Football."



Dr. Brooke
Nicholl whose
'Coral Island'
talks are a
feature in the
programmes at 2LO.

MUSICAL COMEDY MEMORIES.

One item in a forthcoming programme of 2LO bears the title of "Musical Comedy Memories," the artist being Victor Gouriet. No one in Australia is more suited for such an item than this artist, who will be remembered by old theatre-goers as a "star" of the highest theatrical order. Gouriet came to Australia from England with a great reputation as a musical comedy comedian, and for many years his fame in Australia eclipsed that of his previous career. An accident put a stop to his triumphs for many years, but latterly he has been showing his old brilliance in pantomimes and musical comedies.

THE WEEK-END PROGRAMME beginning Saturday, June 4, for 2BL will be broadcast mainly from Wollongong, on the occasion of the Illawarra District Eisteddfod.—

Saturday night Eisteddfod Session from the Town Hall, Wollongong. Sunday morning, 11 a.m., Service from the Methodist Church, Wollongong.

Sunday afternoon, at 3.45 p.m., Organ Recital from St. Michael's Church of England, Wollongong, by Dr. S. A. Jarman, adjudicator to the Eisteddfod.

Sunday evening, 7 p.m., Evening Service from St. Michael's Church of England, Wollongong. Sunday evening, 8.30 p.m., Sacred Classical Concert from the Crown Theatre, Wollongong.

RACING: The A.J.C. meetings at Randwick will be dealt with by 2FC Racing Commissioner on King's Birthday, June 6, and Saturday, June 11. There will also be a description of the Trial football match between 1st and 2nd N.S.W. Teams. On the afternoon of Saturday, June 4, Rosehill Races will be described, and results given of the 8-car University race.

"JERRY" SCORES AGAIN: When "Uncle Rus" consented to sing in a competition against "Jerry" with the juvenile listeners as judges, he never anticipated the final result—the kiddies were asked to write to whom they considered the best vocalist, and much to the surprise of "Uncle Rus" and the "Hello Man," the irrepressible "Jerry" received a mail large enough to make the clerical staff of 2FC work overtime. Now "Jerry" has to wear a hat three sizes larger than usual, for he beat "Uncle Rus" by over one hundred votes.

AN ECHO FROM THE FLEET: When the United States fleet visited Australia two years ago, radio enthusiasts among the personnel made it a point to visit 3LO, Melbourne, to study Australian methods, and many of them have since kept in touch with the studio. One such correspondent writes from Alaska to say that 3LO received at the U.S. Naval Radio Compass Station, Cape Hinchinbrook, with "clock work regularity together with clarity, and is a source of excellent entertainment to the personnel attached to this isolated section of Alaska." He states that there is a little interference from a Japanese station, but taking it on the average the reception from Australia is as accurate and regular as that from American stations.

"CAVALIERIA RUSTICANA."

So great has been the previous success of the performances of "Cavalleria Rusticana" that arrangements have been made to again broadcast this Opera from 3LO. As on previous occasions, the Melbourne Choral Union will be responsible for the Choral Work, whilst the Celebrity Four, with Madame Saffo Aranay in the Soprano Role, will give a good account of the principal parts. In addition to this, it may be mentioned that the Melbourne Choral Union are to figure in the Studio programmes from time to time, and it is anticipated that listeners—especially those in the Country, who have hitherto been debarred from hearing one of the finest Choral Societies in Melbourne, will greatly appreciate these arrangements.

BEDTIME STORIES at 6WF by Mr. Harold T. Newton (Uncle Duffy) have gained the session a high place in popularity, according to recent plebiscite. "The Adventures of Princess Peppermint," "Aladdin," "Red Riding Hood," "Dick Whittington and His Cat," "Robin Hood," and "Uncle Tom's Cabin" are but a few of the plays that have been on the air, and 6WF boasts of a children's hour second to none in the Commonwealth.

FLORA PELL.

Among those people who have been engaged by Studio 3LO to give special afternoon talks to housewives, few have made a stronger appeal than Miss Flora Pell, who, during the months she has been dispensing advice on the various branches of Domestic Science, has given many helpful hints to the harassed housekeeper. Particularly is it noticed that Miss Pell never loses sight of the fact that she is in touch with the "average" woman, who has an "average" income to deal with, and in her Culinary Lectures, she pays great attention to family dishes, the recipe and method of preparation being given in minute detail, with a view to saving the amateur cook both time, energy and unnecessary expense.

WELL KNOWN ORATORS TO BROADCAST: On Monday evening, June 13, the Sydney School of Arts Debating Society has arranged a most interesting debate. The Sydney School of Arts Debating Club is the oldest institution of its kind in the Southern Hemisphere. It was founded in 1844, and through its ranks have graduated a large number of our public men. Of these, the following may be mentioned:

Rt. Hon. Sir George Reid.
Rt. Hon. Sir Edmund Barton.
Rt. Hon. W. M. Hughes.
Rt. Hon. R. E. O'Connor.
Sir William McMillan.
Hon. W. A. Holman.

The subject for discussion on the night of June 13 is: "That Party Government is the best means yet devised for carrying on the business of the State."

The Rt. Hon. W. M. Hughes, and the Hon. W. A. Holman, will affirm. Messrs. J. S. Stanton and V. T. Kieley will oppose.

2FC have been given the exclusive right to broadcast, and will take from 8.30 till 10.0. The order of the debate is as follows:—

8.00 to 8.30.—Rt. Hon. W. M. Hughes.
8.30 to 9.0.—J. S. Stanton.
9.0 to 9.30.—Hon. W. A. Holman.
9.30 to 10.0.—V. T. Kieley.
10.00 to 10.15.—Mr. Hughes will sum up.

FAMOUS ARTISTS AT 2FC: Alexander Sverjensky, the brilliant Russian pianist, and Mischa Dobrinsky, violinist, will give a series of recitals from Station 2FC. Cyril Monk, the noted violinist, has also arranged lecture-recitals, which will be of great benefit to the student mind.

ONE NIGHT recently 2FC devoted its entire programme to dance music—except for intervals to give the dancers time to breathe, during which Alfred O'Shea and other noted artists sang over the air. Listeners were invited to telephone for request numbers. The response was so great that four lines were kept busy answering the calls, and over 40 special items were played by Eric Pearce's band of ten. This experience is of interest in view of the State-wide dance night on Saturday, June 18, when dances will be held by radio in private homes and public halls in aid of funds for equipping various hospitals with radio receiving apparatus.

THE CLASSICS.

According to the great mass of correspondence that arrives at 3LO, there seems to be a great need among many listeners for "better music," and special arrangements have now been made to meet this need. Now that the Conservatorium vacations are over, concerts have been arranged, and will take place fortnightly; some of the best musicians that Australia can produce will contribute to these programmes. To mention the names of only a few, Edward Goll, Louis Hattenbach, Eduard and Raymond Lambert, Harold Elvins, and a host of other equally fine classical performers, have been pressed into service, and will be heard over the air in the not too far distant future.

"THE COUNTRY GIRL."

On Tuesday, June 7, we are to have a performance of that ever popular and tuneful Musical Comedy, "The Country Girl" (which brought its composer, Mr. Lionel Monckton, instantaneous success and fame), broadcast from 3LO by members of Bradshaw's Operatic Society, which are, as their name indicates, connected with the well known business college. The society has already given many performances of the "Country Girl" with great success, the principals, whether singing the lilting melodies that "age" cannot wither, or getting the witty points of the dialogue "home" over the air, are past masters and mistress in the art of entertaining, and the chorus, which has been particularly well trained, and is finely balanced, leaves nothing to be desired.

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



DISHONEST?

Dear Sir.—I propose a vote of thanks to Mr. Renshaw for bringing up the subject of pirate listeners before the Wireless Commission. It is my opinion that the blame for the whole of the trouble over wireless in New South Wales can be laid at the door of the P.M.G.'s Department.

As a commercial traveller I see a good deal of the country, north, south, and outback, and I have spent nights in little country towns where a forest of aerials have made their appearance during the last twelve months. Out of curiosity I have inquired for the number of licensee taken out in these districts. In some cases they number no more than three or four.

What an astounding and disgraceful state of affairs for a wealthy prosperous State. The only conclusion I can draw is that the average Australian is dishonest at heart.

Yours, etc.,
SOFT GOOODS.

Sydney.

RECIPIER IMPROVEMENT.

Dear Sir.—The last few months have revealed a great deal as to what the public wants in the way of radio equipment. The public wants sets with simpler control. Only a year or two ago people were almost afraid to touch some of the receivers, which appeared to be a maze of dials to twist and turn, and a critical adjustment of many controls was a requisite to good reception. The receivers looked "too scientific," "too technical." That was why they did not have a greater sale. Their appearance, too, was such that they did not appeal to women, now so interested in radio as a necessity in the home.

It was obvious that all this had to be corrected. Through intensive and costly research, receivers that may be easily operated, even by a child, have been created. Engineering progress has been steady. There will be continual refinement, although hardly any revolutionary changes in the immediate future.

Yours, etc.,
AMATEUR.

Randwick.

CO-OPERATION.

Dear Sir.—Perhaps most of us who own sets of three or more valves wholly agree that 3LO's programmes are slightly ahead of our Sydney stations, but that is only natural as 3LO is far more "wealthier," so to speak, than our stations; therefore, it shows that one dance night a week is plenty, one popular-light music night, and what is left is best as it is now. But a little care and unison is needed to stop 2BL and 2FC from broadcasting the same type of programme on the same night. How drastic it would be to listeners if they tune in on Thursday nights and find 2BL JAZZ! switch on 2FC—JAZZ. Never mind, 3LO left—but JAZZ. Things would not be half so bad if a little co-operation were used.

Yours, etc.,
RAD CLUBS.

Petersham.

ALTERNATE CHILDREN'S HOUR.

Dear Sir.—Is it possible to have music right through from 5.45 p.m. to 11 p.m.; that is to say, one station broadcast the Children's Session for one week and the other station to have music, and as soon as the Children's Session is over that station go on with music and the other station give Stock Exchange, etc.? The idea would be so that the two stations are not broadcasting the same as one another.

I very much appreciate 2FC's Studio Revels, also the Organ Recital from Prince Edward Theatre Beautiful. More would be appreciated.

Yours, etc.,
R.A.A.C.
N.R.M.A.

Campsie.

MR. ANNOUNCER.

Dear Sir.—Might I suggest that 2BL be requested to announce correctly their programme, especially on Saturday, when often they stage a transmission from the Stadium, but never announce it. Country listeners are interested in both the Stadium contests and the wrestling matches from 3LO, but often miss same because they are not announced in your programme.

Yours, etc.,
H.S.P.

Melbourne.

SUPER-DISPLEASED.

Dear Sir.—After reading the letter by "Super-Pleased," under the heading of "Nothing to Complain About," I have come to the conclusion that your correspondent has a very poor idea of conditions existing in other localities. He says he receives all stations, including 2FC and 2BL without distortion; that may be so at Townsville, Queensland. Then he goes on to say the listener who finds fault with the stations must have a very poor set. Well, even if "Super-Pleased" has a Super-Het, he is not the only one, and if he brought his Super-Het, to Lithgow, N.S.W., he could not get super-reception from 2FC or 2BL at night time without distortion. So I would think it a good plan if he became more familiar with conditions existing elsewhere before he criticises other listeners' sets.

Yours, etc.,

RAULAND LYRIC.

Lithgow.

THANK YOU!

Dear Sir.—I wish to congratulate you on the excellence of your paper. There is no need to look to English and American journals for "hook-ups" whilst you maintain this high standard. Recently I built a 5-valve described in your paper, using Radiokes Circloid Cells, and obtained remarkable DX results. Two days ago I built the Selodyne, as described in your issue, May 20. Five minutes after its completion, two New Zealand stations, 3CL, 3LO, 4QG, all came in with great volume, in fact, just as loud and clear as our locals.

I have tried hundreds of "hook-ups," but this is the best.

My proposed Super-het, is postponed indefinitely. I used parts you recommended, e.g., Radiokes coils and Igrains 3-gang condenser. They are dear, but the set is more than worth the expense. Stability, volume, clarity of reproduction, and ease in tuning, are all present in this wonderful receiver. Wishing your paper the success it so well deserves.

Yours, etc.,

C. W. GEORGE, M.B., Ch.M.

Mosman.

Stereophonic Transmission from 6WF

WIPEH the usual broadcast transmission using one wavelength and one microphone, the listener although he may be using two ear pieces is really only hearing the music as if he were listening with one ear. One may look upon the microphone as the actual ear of the listener. Using one ear the sense of direction of sound is not possible, the same applies with using one microphone. It is only by the use of both our ears that we are able to judge in what direction sound is coming from so that it is necessary to use two microphones and two separate wavelengths to give the listener that natural roundness and sense of direction that one is so accustomed to when listening to sound.

Recently 6WF carried out a unique experiment. During an orchestral programme from the studio two microphones were arranged at a distance of 6 to 8 inches apart, to represent the ears of the listeners. The microphones were then connected to the 100 metre and 1250 metre transmitter, respectively.

Those listeners in possession of a short wave receiver in addition to the usual broadcast receiver were previously instructed by a brief talk broadcast from 6WF to proceed as follows:

Adjust each receiver so that the volume on 100 metres was equal to that received on 1250 metres, take one of the earpieces off the headphones connected to the short wave receiver and interchange it with an earpiece of the headphones connected to the 1250 metres receiver. Listening-in in this manner i.e., with an earpiece connected to the 100 metres on one ear and the earpiece connected to the 1250 metres receiver on the other ear, the effect is most natural. In addition to a certain roundness that is lacking in the usual broadcast reception, one can distinguish quite easily which instruments are to the right or left of the microphone, and it leaves one with a feeling that the music is actually being played in the room.

Judging from the numerous letters of appreciation, there must be quite a number of listeners in the West who possess a short wave and long wave receiver.

ASKED TO VOTE on the most realistic demonstration of a donkey braying during the Bedtime Story Session at 6WF recently, the four artists being—Uncle Duffy (Mr. H. T. Newton), Uncle Leslie (Mr. Leslie Judson), Uncle Henry (Mr. H. Marsh), Uncle Perry (Mr. Leonard K. Perrin), the children decided that Uncle Leslie came first, followed by Uncle Henry, Duffy and Perry.

WHO WAS THE FIRST TO BROADCAST IN AUSTRALIA?

CONCERNING the discussion which has been going on in "WIRELESS WEEKLY" for the last few issues, it is interesting to take this matter further and consider who first broadcast in this country.

In October, 1920, Mr. E. T. Fisk, Managing Director, Amalgamated Wireless (Asia), Ltd., arranged a special broadcast programme for parliamentarians at Parliament House, Melbourne. This transmission was carried out from Brighton, and comprised a regular programme made up of musical and vocal items with an address broadcast by the Mayor of Brighton.

Many listeners will remember the regular Monday evening programme transmitted by Amalgamated Wireless (Asia) Ltd., from Melbourne, which might perhaps be said to constitute the first commercial attempt at broadcasting in this country. These broadcasts commenced in January, 1921, and were carried on quite a long time.

6WF's hopes were raised when on Saturday, May 7, they were advised that 3LO would rebroadcast through 3BQ the Opening Ceremony of Canberra. The advice from Melbourne stated that the rebroadcast would take place on a wave length of 33.4 metres. The worst period of the 24 hours for communication from the Eastern Station by wireless was known from experience to be from 9 a.m. till 3 p.m. As the Canberra Ceremonies were to take place from 8 a.m. to 10 a.m. W.A. time, it was anticipated that trouble would be experienced, but as 6WF were anxious to relay, if at all practicable, an arrangement was made with the Melbourne Station to carry out a test on Sunday morning at 9 a.m. Nothing was heard of the short wave station.

The conclusion arrived at for the failure of the test was that in addition to the period of the day being had for short wave work from the Eastern States, the power of the short wave station was too small to overcome this difficulty.

ON SUNDAY, May 8, at 7.30 a.m., 6WF rebroadcast the programme from WGY, New York, through the General Electric Station 2XAF, Schenectady. The relay though satisfactory was not up to the usual re-broadcast from this station owing to the prevalence of atmospherics and the interference caused by an oscillating valve in the vicinity of the short wave receiver. The local weather conditions in Perth at the time of the relay were bad with every indication of a thunder storm. The rain was simply pouring down with very strong wind. Considering these adverse circumstances the efforts of 6WF were highly creditable, and given favorable receiving conditions there is no doubt that the programmes from the New York station should be greatly appreciated by the W.A. Broadcast listeners.

Who Broadcast the First Concert in N.S.W.?

Dear Sir.—The controversy on the first broadcast concert is bound to bring to light many interesting episodes in the earlier history of radio. Mr. Oswald Anderson's reminiscences in the issue of "W.W." (6/5/27) are very interesting and contain much useful information, but so far as touching on the first broadcasting concert are, in my opinion, wide of the mark.

I feel fully convinced that the credit for the first broadcast must be given to Mr. Charles MacLurean. Becoming associated as a student of wireless with him on my return to Australia in 1918, and from an intimate knowledge of his work and the great results he has since obtained I毫不犹豫地 contend he is the first original broadcaster in New South Wales.

Mr. Anderson gives his date as being early in 1923, but the following extract is taken from a concert programme printed in "Wireless Weekly" for August, 1922:

"Music in the Air. Concert Programme. Mr. MacLurean next Sunday's concert will commence at 7.30, and will include the following Pathé Records: Fox Trot, 'Say it with music'; Soprano, 'La Forza del Destino'; Claudio Muzio; Hawaiian Guitar, 'Mahaina Malama'la'; Nursery Rhymes; Whistling 'Bird Raptures'; Tenor, 'Vainement me bénis'; Mr. Vaquet, Piano Solo, 'Maiden's Wish'; Chopin-Liszt; Fox Trot, 'I Call you Sunshine'; Baritone from 'The Little White House'; 'The Night Nursery.' 'The Smoking Room'; Edgar Coyle; Hawaiian Guitar, 'Sweet Lei Lehua'; Banjo 'L'Infanta', and by request 'Soldiers' Chorus' from 'Faust'."

In my humble opinion too much credit cannot be given to this indefatigable pioneer worker and clever exponent of the wireless wonders. The rapid advances made in the radio would in a few brief years have been marvellous, and the science has been brought to such a remarkable state of proficiency that it is somewhat difficult for present-day devotees to adequately realise what the early struggles to obtain this high standard were; but it would be well to remember that if it had not been for such stickers and enthusiasts as Mr. MacLurean the great multitude of wireless lovers would not be in the enviable position they are to-day. He is credited with being the first man in the State to transmit from a private house, and I can say from actual experience he has always been ready to assist with advice the student who was in real search of radio knowledge and guidance."

Yours, etc.,
R. BEVAN JONES.

"Now is the Time" to Tune in 3LO

*More News and Notes by Our
3LO Correspondent.*

By H. ELLO.

Students of typewriting are familiar with the old adage, "Now is the time for all good men to come to the aid of their party," but it has more application to the champions of the various types of radio entertainment now being given prominence in the plebiscite conducted by the "Argus," Melbourne. Lovers of the excitement and humor of the wrestling descriptions broadcast by 3LO have answered various frequent critics of the sport by placing the item, "Wrestling descriptions," second in the list. Many critics aired their views in the columns of the press and decried the amount of time devoted to wrestling as compared with religious services, despite the fact that the latter headed the list in the number of hours devoted to various items during the year. Yet, strange to say, religious services occupy a comparatively low position on the plebiscite list. Dance music, news, comic songs and musical comedy are high up in the public favor, although each of these entertainments finds frequent criticism from the type of listener who airs unconsidered grievances through the press.

"MIKE FRIGHT."

It would hardly be considered possible that such experienced artists as Lee White and Clay Smith would fall victim to that bugbear of all radio performers—"Mike fright." Yet they shared the fate of hundreds of others. Before their first appearance with 3LO, Lee and Clay sat timidly in a corner of the studio obviously nervous. As Clay Smith went to the piano his hand shook as he turned over the music, and Lee White was equally apprehensive. "It was not as if we had never sung over the radio before," said Lee White, "for Clay and I featured in one of the first broadcast concerts ever given in Australia, and had also been previously on the programmes of 2FC and 3LO. But somehow the microphone had assumed new terror during our absence from broadcasting. Perhaps it is because a theatrical artist feels the lack of an audience and is awed by the mysteries in radio that we lost our nervous balance. However, lots of complimentary letters from listeners after our first performance restored our peace of mind."



Frank and Frances Luis, the Hawaiians appearing at 3LO Melbourne. Experienced vaudeville artists they have a series of numbers particularly suited for broadcasting which have been received with marked success by listeners in.

LAUGH AND GROW FAT.

3LO is almost ready to begin its laughing competition. I met the manager of 3LO, Melbourne, the other day in the street and asked him what the idea was that lay behind the competition.

"Well," he grinned, "I want to get listeners out of their solemnity. Did it ever strike you," he asked me, "what a solemn lot we are, and how seldom we really let ourselves go in laughter. Look at those people coming towards us. Not a smile on any one's face. Squint across the road—can you see any smile? Look at that family in the motor-car. You'd think they were off to a funeral. And all this in the best country in the world, where everyone should look happy!"

By jingo, you know, it had never struck me before what a solemn pompous crowd we people in the

street are, till it was mentioned to me. Since then I have been taking particular notice, and unless a man is drunk, he seldom laughs when he is abroad.

When the 3LO laughers unloose themselves and let fly their jolly basso profundo rumbles, or their gleeful baritone chuckles, thousands of listeners will be laughing in sympathy for the first time in months.

I don't know what the method of the competition will be, but anyway, Victoria is overdue for mirth and she's going to have a treat.

IN MAKING PROVISION for the very latest and most efficient equipment in the new studios, 3LO, Melbourne, is not overlooking the time. A special chronometer is being installed by Gaunts of Bourke Street, Melbourne, and the regular tri-daily announcement of the accurate time will be a feature at 3LO.

AERIAL HINTS

By H. K. LOVE

(President of the Victorian Section of the Wireless Institute of Australia).

AYEAR or so ago I had installed at my own station an aerial 105 feet high and another 25 feet high. The 105 feet aerial was a 6-wire cage about 9 inches in diameter and consisting of 6 wires. The small aerial was a single wire affair. Tests made on a crystal receiver proved that the signals from a given station were at least three times as loud when received on the big aerial as those received on the small one.

When using a single valve receiver on these two aerials, it was found that the larger aerial was at least as good as an additional stage of radio frequency amplification. In fact, stations that could not be picked up with the small aerial were received at good headphone strength with the high aerial.

It is often argued that a large aerial makes tuning flat. This should be overcome by making the circuit which is coupled to the aerial circuit of a design which will compensate for any flatness of tuning occasioned by a large aerial. In any event, flat tuning will only be noticeable on a big aerial, which is very close to a broadcast station. The set itself should be so constructed that it does not depend on the type of aerial used for its sharp tuning.

The problem of what kind of an aerial will I need confronts every newcomer into the army of listeners. It is often stated that nothing very much is required, as it is only for a crystal set. This is a mistaken idea—a crystal receiver to do its job properly requires a good aerial system. A crystal receiver employs no amplifier before the detector; in other words, no radio frequency amplifier; therefore, the detector can only use the signals which are actually caught on the aerial. It is evident, then, that the stronger the radio frequency energy picked up by the aerial the stronger will be the resultant rectified signal in the telephones.

I have proved by actual experience that a high aerial of big area picks up more energy than is picked up by a small one. While this fact is perhaps not so important with a valve receiver employing radio frequency amplifiers, it is of utmost importance to a crystal receiver.

I have endeavored to show that a high aerial of big area will pick up

more energy and, therefore, result in louder signals in the headphones. In the case of a valve receiver employing radio frequency amplification, the same applies, but in bad weather the aerial will also pick up more static, and as the radio frequency amplifier will amplify the static in nearly equal proportions to the received signals, it frequently happens that a big—or rather too big—an aerial in conjunction with a valve receiver is not desirable.

To turn to the other extreme, a very small aerial will pick up very little static energy and will also pick up very small radio frequency energy. It may be thought, therefore, that the position would be the same as in the case of the big aerial. This is not the case, however, as the radio frequency amplifier is worked closer to peak amplification in these circumstances, and as the amplifier is tuned to the incoming signals, it amplifies the signals to a greater extent than the static.

One of the main disadvantages attending the use of a very small aerial with a valve receiver is the tendency of the receiver to become very unstable, and very difficult to control. This fault will be very noticeable when fishing for long distance stations.

In order to reach a compromise between a very big aerial and a very small aerial for valve receivers, the following points are suggested:

1. Make the outside portion of the aerial about 35 to 40 feet, and as vertical as possible.
2. Avoid long aerial leads inside the house.
3. Solder all joints.
4. Avoid as you would a plague, long leads to an earth connection.
5. If your present aerial is about 70 feet, before cutting anything off it, use a fixed condenser of about .0001 in series with it and try it for results.

6. Remember that the total length of your aerial measures from the earth point to the fore-end of your outside aerial. This includes the earth and aerial leads.

A long earth lead adds to the total length of the aerial without being of any use as a collector of energy. The height of air aerial should be decided upon after a study of the sur-

roundings—an aerial should for best results have its high end well above roofs, trees or buildings which are earthed, or any object which is likely to screen the aerial. Great attention should be paid to the insulation of the aerial. It is advisable to use covered wire for the aerial lead in.

Every possible precaution should be taken to prevent the aerial touching any part of a building or the mast. Make it a rule to swing the aerial well clear of everything.

THE ANNOUNCEMENT of New System Telephones Pty., Ltd., regarding the forthcoming reduction in prices of the well-known Burgess Radio Batteries is noteworthy. After June, these batteries will be available to radio set owners all over New South Wales for 2/-—a price which places them within reach of every broadcast listener. Remembering the rapidly rising popularity enjoyed by this dry-cell battery over recent years and its exceptional present position in public favor, this announcement is as welcome as it is gratifying.

WOULD YOU?

*Would you like to try to lighten,
Paths of those who soon must die?
Help them to forget their sufferings,
While they listen 2KY.*

*Would you ease the pain of Kiddies,
Bring them sunshine, give them
glee?
Act the fairy, set eyes dancing,
This your magic 2FC.*

*Would you cheer that stuff devoted
Fighting Death, Disease, so well?
Doctors, Matron, Sisters, Nurses,
Switch them on to 5CL.*

*Would you of the work they're doing,
Your appreciation show?
Strengthen hands and hearts oft
wear.
Do it now through 5LO.*

*Would you have the fame of Bathurst,
Further grow, ancor—afar!
Hear with pride the tale repeated,
'E'en from distant 5AR.*

*Would you care to laugh more hearty,
Let your pleasure purer be?
Since you know that through you,
others
Are enjoying 2GBY*

*Every wish can be accomplished,
If your part you play right well:
Do it quickly, sick are waiting,
Waiting word from 2BL.*

What Did You Score?

Below are the answers to the questions which appear on page four of this issue:-

(Series 2.)

1. Yes, but it lacks sensitivity.

2. Mr. J. H. Hammond, K.C. (chairman), Sir James Elder, Mr. John McMaster, and Mr. C. R. Crocker.

3. The radio telegraphist's abbreviation for the question: "Have you received the general call?"

4. There is not sufficient body or amperage to make his presence felt in the B battery. However, wet your fingers touch the terminals and let us know when you come down.

5. A two valve and crystal reflex receiving circuit produced by Seal Taggart.

6. Mr. H. J. Book, the bedtimestory man at 3LO.

7. The Morse code was invented by S. P. B. Morse (died 1872).

8. 4QG is controlled by the Queensland State Government.

9. 2FC holds the undisputed record for the greatest number of land line transmissions.

10. The remote ancestor of the word "radio" is the Latin "radius," which, in Latin usage, means a staff, rod or the spoke end of a wheel. As the spokes of a wheel projecting in a going out or emitting, the word all directions from the hub suggested "radius" was used as a base for such English words as "ray," "radiate" and "radium."

"Radio" itself was first used entirely as a combining form, meaning a connection with or a relation to a radius, ray or radiation. Substances which emitted rays, like radium and uranium, were called "radio-active." When the term "wireless," which had been used in the early days to designate the phenomenon of Hertzian and ground wave communication began to seem crude and makeshift, some one struck upon the idea of coupling radiation with two words then in common use, "telegraphy" and "telephony." Thereafter one spoke of wireless as "radio-telegraphy" or "radio-telephone," according to whether communication was accomplished by code signals or the actual human voice.

Finally, the combining form "radio" was converted into a noun, and, to standardise terminology, was officially adopted as the one correct designation of all types of communication by means of electrical waves not guided by wires.

REPLACEMENTS

We supply Renewals
at prices within reach
of ALL

**Why be troubled with your
Accumulator?**

Let us instal a Trickle Charger
from £4 : 7 : 6

"B" Battery Eliminators
Let us instal one for you NOW
from £9 : 15 :-

If you have no Electric Power on at home, buy only quality "B" Batteries.

WE STOCK THEM

**Loud Speakers - Dry and Wet Batteries,
Valves, Etc.**

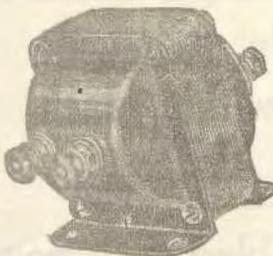
POPULAR PRICES

Sydney Radio Co. Ltd.,

60 Castlereagh Street :: SYDNEY

'Phone B 6651. Next door to the Carlton Hotel.

Send us 13/6



**The CRESCENT
Audio Transformer**

-- FOR ONE OF OUR --

CRESCENT Audio Transformers

Test it out in your set, and if you are not satisfied that you have received full value for your money, return same to us within seven days, and we will refund in full without question.

The Crescent Audio Transformers are made in ratios of 6 to 1 for first stages, and 3½ to 1 for second stages.

SEND FOR ONE NOW!

More Parts for the SOLODYNE

	£ s. d.
Emmco Stratelyne Condensers:	
Hollow spindle, .0005	0 12 0
Advance Centralalign Condensers:	
Hollow spindle, .0005	0 12 6
Erinoid Bushes: For insulating the above Condensers when joined up in gangs	each 0 2 6
The Puremax Giant Loudspeaker: Adjustable	3 10 0
The Trumusic Junior Loudspeaker: Adjustable	0 19 6
Improved Certified S.L.F. Condensers: Size, .00035	0 9 6
Illuminated Back Panel Vernier Dials	0 11 0
Econocoil Short Wave Coil Kits: 15 to 130 metres	2 15 0

Fresh B. Batteries	
Ordinary Capacity	
Everready, 42 Volts	0 12 6
31 Volts	0 9 6
60 Volts	0 18 0
Heavy Duty Everready: 42 Volts	1 1 0
60 Volts	1 11 6
Voltol H.D. Batteries, 45 Volts	1 2 6
Columbia Batteries, 45 Volts ..	1 5 0
Burgess Batteries, 45 Volts ..	1 6 0
Quaker S.L.F. Condensers, .0005 ..	0 9 6
Pilot Vernier Dials: New pattern	0 6 9

Country Clients.

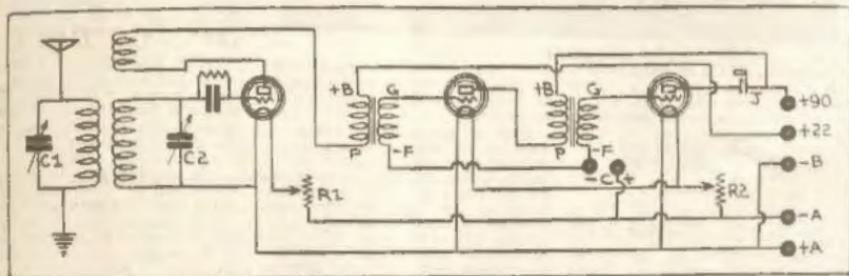
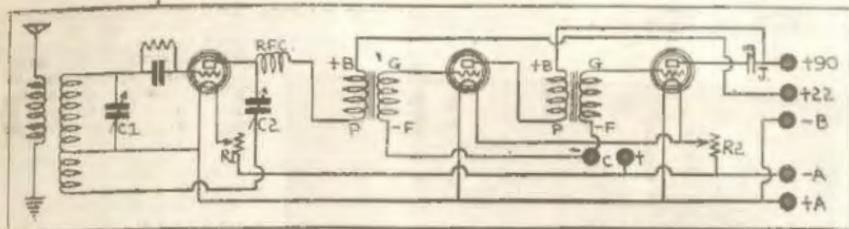
We pay carriage on Orders of 10s. and over,
except on Batteries, Loud Speakers, Cabinets,
and Value Payable Post Parcels.

"YOURS FOR LOWER PRICES."

THE ECONOMIC RADIO STORES

25 ROYAL ARCADE, SYDNEY

Branches—PARRAMATTA, cr. Macquarie and Church Sts. 'Phone UW9601
NEWCASTLE, 569 Hunter St. West 'Phone New. 1622



MODERNISING Your Front of Panel Coil Receiver

Prior to the drop of the wavelength of 2PC, some form of interchangeable coil was necessary to change from the 200 to 600 wavelength band to the 120 metre band of 2PC. Naturally, if these coils were to be interchangeable, it was essential that they should be built in the set in some convenient position. It would have been hopeless to have to reach behind the panel to change coils, therefore most of the sets of the period had a coil holder protruding in front of the panel. Here was convenience itself. Quickly and easily could one pull out a small coil and substitute a larger one or vice versa.

Many other advantages were derived by having the coils in the front of the panel. Alteration of coupling or of the distance between the coils was easily accomplished. This important factor in tuning was a considerable worth while.

Still, many are the disadvantages of this type of receiver to-day. It is entirely out of date—it is extremely ugly in appearance when compared to the modern type of receiver. Gone is the necessity for

changing coils. With a given set of coils all the broadcasting stations may be tuned in without any changing at all.

In a three valve set, with three coils, a primary or aerial coil, a secondary or grid coil, and a reaction or tickle coil, the use of a 30 turn Reactions Coil for the primary, a 50 turn coil for the secondary, and a 50 turn for the reaction, all the desired stations are available. This being the case, why have no coils in front of the panel? They are a nuisance, they are in the way, and what is more, not being covered they are subjected to all the dust deposits which they are capable of receiving. This does not impinge their efficiency in any way, rather does it cause a multiplicity of troubles which are difficult to locate.

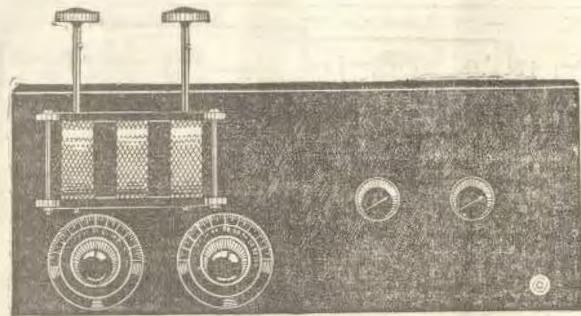
What shall we do to overcome this? Modernise your receiver, is the answer. But, of course, this must be done cheaply to be effective. Most receivers have the three coils in front. If only two coils are included, you are advised to add the third, as it gives increased selectivity. But

don't add it to the front of the panel—put it at the back.

First of all, strip all the parts off the panel, 3 coil holder, condensers, and rheostats. This will necessarily upset the wiring of the baseboard parts quite a lot, but don't worry. Remove the panel from the baseboard altogether and clean it by applying some Brasso. Rub vigorously and polish off with the usual soft clean rag. Now get some shoemakers' heel ball, that black substance the boot repairer wipes around the edge of the soles of boots to give that finished appearance.

Lay the panel on a piece of paper on the table and with a candle melt some of the heel ball and fill in the holes. The heel ball may catch slight just like sealing wax, but hold it over each hole in succession, allowing it to drop into the cavity. Fill each hole to overflowing, allowing each portion to cool down into a solid mass.

Next borrow an old table knife and heat it on the candle flame. Using it like a plasterer's trowel, scrape off the excess wax level with the surface



of the panel. If the correct temperature is found for the knife, a smooth polished surface will result, and it will be difficult to discern just where the holes had been. In the bigger rheostat holes, in order to make sure that the wax will hold, roughen the inner surface a bit, using a coarse round file for the purpose.

Leave the panel on one side to thoroughly harden all the wax, and attend to the baseboard. If any dust has accumulated in amongst the parts, get your dry clean shellac brush and carefully remove all dust. Notice just round the edges of the sockets in particular, and in between the A.F. transformers, and over the terminal board—dust settles there and should be removed.

Now turn your attention to the variable condensers. Hold the condenser near to the ear and turn the moving plates into the fixed plates. A sensitive ear will detect the metallic sound of the metal surfaces, even so much as scrape slightly. If such a fault is found, turn once again to the table knife. Hold the condenser up to the light and locate just which plate is rubbing. Insert the table knife and separate the reclaimant plates. If all touch together, your heat plan is to scrap this condenser and get a new one such as a Heath. The vanes or plates in this condenser never touch.

If, of course, one condenser is of the .001 capacity, i.e., 43 plates, your better plan is to lose it altogether and get one of 23 plates. It is not worth while trying to cut down the capacity of this large condenser. Put it in the junk heap. You'll find a use for it later on.

Sockets should be watched carefully, too, wherever they may be in the circuit. In the earlier days of radio many of these valve sockets were designed in such a way that the high thin sides were readily cracked. Frequently these cracks are so small to be easily seen, yet large enough to cause crackling noises in the receiver. Examine the contacts. Sometimes

they are loose, causing trouble; tighten them up. A drop of solder is handy in holding things together this way.

Next set about drilling the panel. Look at the panel drilling template. Here is a layout for a panel 18 x 7 inches in size, and is so designed that the coil holder is placed on the baseboard at the back of the panel. Measure off the distance between the spindles of the three coil holder, and arrange the holes in such a way that this holder will have the spindles and knobs protruding through the panel to the front. The condenser tuning the aerial or primary coil is raised sufficiently high enough to permit these knobs to have ample room at the bottom of the panel.

The coil holder to be adapted to baseboard mounting may have to be mounted on a small piece of dielecto or radion. This is an extremely easy matter, and does not require much imagination to carry out. Note that there is ample room behind the condenser for the free swinging of the coils. Prove this by mounting the panel components on the panel and placing the panel temporarily on the baseboard in the right position. Insert a 75 turn Reactone coil in the tickler or reaction coil holder and turn the knob.

See that there is sufficient clearance for the swinging of this coil—note

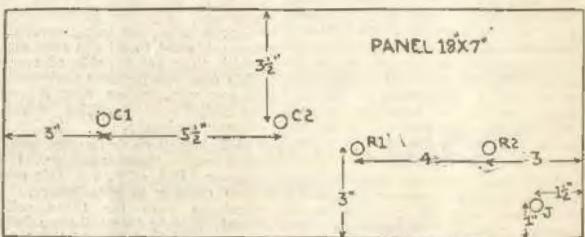
that it doesn't foul the detector valve. If so, alter the positions of the baseboard parts to allow for an easy swinging room for this coil.

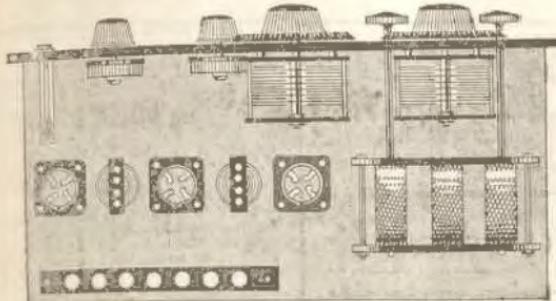
If the rest of the components are not laid out in accordance with the plan view, alter your lay out to suit this. It will save much trouble in wiring later on. Go as far as fix the terminal board in position, everything just as is shown in the illustrations. Perhaps the three coil holder may need to be mounted on a small piece of panel to raise the connections off the baseboard. If the spindles are not long enough procure another piece of the same size rod and with a sleeve consisting of a small piece of copper or brass tubing, which makes a tight fit over the spindle, unite the two together. A drop of solder will hold things tightly.

Now commence the wiring. Take the aerial terminal to the fixed plates of the aerial tuning condenser, then to the pin end of the aerial coil holder (primary). The earth terminal goes to the socket end of the aerial coil holder, and on to the moving plates of the same condenser.

Tune the secondary or the middle coil by connecting the fixed plates of the second condenser C2 to the pin side of the middle or fixed coil plug, and the moving plates to the other side. Join the fixed plate lead of this condenser to one side of the grid condenser, the other side of which is gripped under the grid terminal of the detector valve socket. Now run a busbar so that one of the F terminals of each socket joins to it. Connect together one side of each rheostat, then join together the remaining F terminal of the last two valve sockets, taking a connection from this wire to the remaining side of the second rheostat. The remaining F terminal of the detector valve socket connect to the remaining terminal of the detector rheostat.

Now run the moving plates of the secondary condenser to that wire which is common to all the valve sockets. This wire is the A positive wire, and is joined to the A positive





terminal on the terminal board and also the B — terminal there.

Link the P of the detector valve socket to the pin side of the tickler coil plug, the other side of which goes to the P terminal of the first audio transformer. The G terminal of this AF transformer is taken to the G terminal of the second valve socket. The P terminal of this valve socket is taken to the P of the second audio transformer. The G of this transformer goes to the G of the last valve socket. Join the P of this valve socket to one side of the SC jack, the other side of which joins B of the second AF transformer and to the B positive 90 volt terminal on the terminal board. The B positive detector joins to the B positive detector on the terminal board.

Join together the two F terminals of the AF transformers and take them to the C negative on the terminal board. Take the C positive to the A negative, and then to the common rheostat which links the rheostats together. This completes the wiring. Check over carefully and look at the back of panel wiring diagram.

An alternative circuit is the Reinharts circuit which is produced here. The only difference in the wiring lies in the coil holder-condenser wiring. This is simple. Work it out for yourself.

The coils you have may be very much the worse of wear. Try Resstone coils. On the receiver illustrated a primary of 35 turns and secondary of 50 turns with a reaction of 50 or 70 turns, all Reantone coils proved well worth while. A good close coupling is permissible, allowing a maximum volume. With an aerial about 60 feet long excellent results will be received. You will be surprised at the differences in the whole receiver, and also in the results. Careful tuning is necessary and 4QG will be heard, as will the locals, of course, and as time progresses the other interstate stations will make

their presence known.

Another method of remodelling is to scrap the front panel three coil holder, and obtain one of the types of back panel mounting coil holders, which may be fitted above the condensers without altering the old panel layout. Sometimes only one condenser is included in a receiver. In this instance tune the middle or secondary coil with the condenser and leave the primary aperiodic that is untuned. Again try a 25-turn Reantone coil in the primary; it often gives a greater degree of selectivity.

Finally, if the constructor desires, instead of transformer coupling, for audio stages, one of the many resistance coupled units may be employed. Such types as the Heath and Meenter and Dover are in one unit of three stages complete, with valve sockets. A minimum of wiring is required here, thus simplifying matters greatly.

A remodelled receiver is something to be proud of when remodelled successfully. Sometimes it happens that the good old circuits are forgotten about in the chaos of modern circuits. A surprise is often in store. The receiver described here was actually remodelled with good results. The test at Marrickville proved the value of the labor put into it. It will do the same for you.

Plate Current and C Bias

The various values of plate current specified by tube manufacturers as indicated on their cartons are often misunderstood by fans in general.

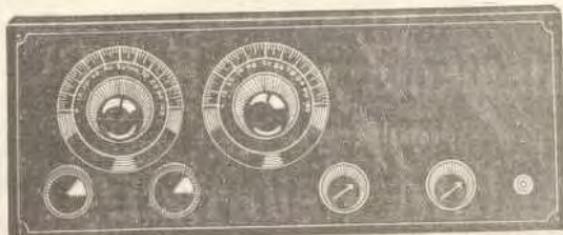
These values of plate current are usually mentioned in conjunction with a certain value of grid bias, and indicate the plate current drain of the tube with the correct value of grid bias. This obtains if the value of plate voltage specified is the effective plate voltage. In other words, if the normal plate current drain of a certain tube is 20 milli with 180 volts on the plate and 40.5 volts C bias it should be understood that this is the amount of current drain with 40.5 volts applied to the grid and 180 volts to the plate. If any high resistance is inserted into the plate circuit, which would tend to reduce the effective plate voltage by virtue of the voltage drop across the resistance, the plate current drain will be reduced.

The practice of quoting the plate current drain with the C battery applied is far better than the previous methods, since it affords definite information to those who seek it. It would be highly advantageous if such specifications were supplied with all the tubes placed upon the market by the various manufacturers.

With respect to the voltage drop across the filter unit in the plate circuit of the output tube, this value is small, due to the customary use of an inductance with low value of D.C. resistance.

The rapidly-increasing business of Ampion (A'din), Ltd., whose Melbourne office has, up to the present time, been located at Collins House, Collins-street, recently necessitated a change to more commodious premises.

The company have, therefore, secured new offices and showrooms at Peacock House, 486 Bourke-street, Melbourne, where business in future will be carried on.



The Newest and Best Yet— Airzone Bakelite Neutrodyne Coil Kit

Machine spaced, wound
with silk enamel wire on
genuine bakelite.

Beautifully finished.



Do not be satisfied with this picture. See the article itself. Take a kit home and fit it in your next set.

Other Airzone Products :—

Three Coil Tuners

Masterdyne Kits

Browning-Drake Coil Kits

Sub-panel Brackets

Equamatic Coil Kits

Neutralising Condensers

Indoor Aerial Loops

ON SALE AT ALL RADIO DEALERS.

Manufactured in Sydney by—

AIRZONE LIMITED

The largest Coil Manufacturers in Australasia.

SALES AGENTS TO THE TRADE—

Manufacturers' Products Sales Co.,

(H. J. Hapgood)

Challis House, 4 Martin Place, Sydney.

Phone BW 1328

When Radio Directs Motor Traffic.

TRAFFIC officers, semaphores, automatic electric signalling systems, and other means of directing and warning motor traffic would be thrown into the discard if a new invention of a Frenchman were ever adopted, entitled "Radio Warning System for Use on Vehicles."

The device, however, is impractical for the present, since it presupposes that all automobiles will be equipped with radio apparatus. In fact, this invention presumes the conversion of every motor car into a miniature broadcasting and receiving station. This would necessitate the installation of an aerial system on the lower part of the vehicle, in front of the metallic portion of the car. The metal body of the vehicle would act as a wave reflector, thus preventing the transmission and reception of radio waves except from the front or side of the car.

How It Would Work.

Minature radio transmitting and receiving sets would be connected to this aerial system and as one automobile approached another, a haw or other warning signal would be received by the respective vehicles, thus averting a collision. In fact, this novel traffic scheme contemplates the use of a horn connected in parallel with the small radio transmitter and operating at the same time whenever a particular switch is closed. The circuit diagram makes provision for the insertion of an additional switch, which, when opened, puts the radio system out of commission temporarily and still permits of the operation of the horn. Thus motorists instead of operating the horns on automobiles normally would commission radio to perform this function automatically.

Aerial as a Counterpoise.

The inventor suggests the use of rugged and yet simple radio apparatus, which would facilitate the switching from the transmitting to receiving mechanism readily. The aerial would consist of a counterpoise effect, the metallic body of the automobile forming the ground or counterpoise and two rods or wires extending along the flaps of the mudguard to the transmitting and receiving apparatus, which would be contained in a box.

The inventor summarizes the object of this novel device as follows: "It relates to radio warning systems for use on vehicles intended to permit a vehicle to signal its presence by means of electric waves to all other vehicles in its more or less immediate vicinity, equipped with similar or equivalent apparatus and devices, particularly to such vehicles located in front or on the side of the vehicle signalling its presence and facing in the approximate direction of said signalling vehicle."



Superb Loud Speakers

GECOPHONE CONE LOUD SPEAKER (BC 1650).—Unquaalled delicacy and fidelity of reproduction. Perfectly balanced, with heavy base; metalwork of cold-bronze finish, cone self coloured and beautifully grained; adjustable to any angle desired. Price £9.9/-

GECOPHONE CABINET LOUD SPEAKER (BC 1640-42).—Beautiful Cabinet work in solid mahogany or Oak.

Handsome Florentine brouze grill. A credit to any set and furnishing scheme.

Price £5.5 -

GECOPHONE CABINET LOUD SPEAKER (BC 1620).—Attractive in design, with fine mahogany finish. Mellow and true reproduction. A wonderful Loud Speaker at a Bargain Price.

£2.10 -

Obtainable from all Licensed Radio Dealers.

GECOPHONE

**British General Electric Co., Ltd.,
154-6 Clarence Street, Sydney.**

Send No Money!

Pay the Postman for this
Wonderful

Manhattan Loud Speaker WITH TONE REGULATOR

Sold on 7 days free trial, which means that, should the Speaker not meet with your entire satisfaction within 7 days, return same to us and we will either send other goods to your requirements or refund your money.

Price : 23/6

Postage Free Throughout the Commonwealth.



Height 22-ins.
Bell Mouth 9-ins.

Real Radio Enjoyment

If you use an "EVER-READY" Radio Battery

We are distributors for the famous "Ever-Ready" Radio Battery, and fresh stocks are arriving from the factory almost daily.



"B" BATTERIES.

Small size, for 1 and 2 Valve Sets.

WP30 Volts	9/6
WP40 Volts	12/6
WP60 Volts	18/-
Heavy Duty Type, for 3, 4, 5 or more Valve Sets.	
XP30 Volts	16/-
XP40 Volts	21/-
XP60 Volts	31/6

"A" BATTERIES.

Standard, 4½ Volts

9/-

"C" BATTERIES.

No. 126—1½, 3, or 4½ Volts

2/9

MAIL ORDER DEPT.: 60 GOULBURN STREET.

Wiles Wonderful Wireless and Electrical Stores
PITT AND GOULBURN STREETS :: SYDNEY

Branch: 23 Pitt Street, Near Circular Quay. Branch, 384 Pitt Street, Near Goulburn St.

BROADCASTING PROGRAMMES for the COMING WEEK

Friday, June 3

2FC, SYDNEY

Farmer's Broadcasting Service.

Wave Length, 442 Metres.

MIDDAY SESSION.

- 12 noon—"Big Ben" and programme announcements.
- 12.02 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall, temperature, agricultural memoranda, shipping intelligence, mail service.
- 12.5 p.m.—Studio Music.
- 12.10 p.m.—Summary of "Sydney Morning Herald" news service and cables.
- 12.25 p.m.—A talk on Home Cooking and Recipes by Miss Ruth Furst.
- 12.40 p.m.—Miss Muriel Humphries, contralto; "Topical Songs and all the Years" (Phillips).
- 12.45 p.m.—Studio Music.
- 1.00 p.m.—"Big Ben," Weather intelligence.
- 1.20 p.m.—"Evening News" midday news service.

Producers' Distributing Society's Report.

- 1.20 p.m.—Studio Music.
- 1.30 p.m.—Stock Exchange, second call.
- 1.35 p.m.—Marching music for the schoolchildren.
- 1.40 p.m.—Miss Muriel Humphries, contralto; "The Little Blue Bird" (old Riego).
- 1.45 p.m.—Studio music.
- 1.50 p.m.—"Big Ben," Close down.

AFTERNOON SESSION.

- 2.00 p.m.—"Big Ben" and announcements.
- 2.10 p.m.—Studio Items.
- 2.15 p.m.—Marching music for the school children.
- 2.20 p.m.—From Farmer's Tea Rooms: Miss Ethel Müller, contralto; "Take Heart" (Meadle).
- 2.30 p.m.—Mr. Chapman will talk on "Kinder-garden Activities."
- 2.35 p.m.—Miss Sybil Athwood, mezzo.
- 2.40 p.m.—"Big Ben."

From Farmer's Tea Rooms:

- Miss Ethel Müller, contralto;
- "The Father Crayon" (Scott).
- 4.15 p.m.—Studio Music.
- 4.15 p.m.—Miss Sybil Athwood, mezzo.
- 4.20 p.m.—From Farmer's Tea Rooms: Miss Ethel Müller, contralto; "My Message" (D'Hardelot).
- 4.25 p.m.—Studio Music.
- 4.40 p.m.—From Farmer's Tea Rooms: Miss May Green, mezzo;
- "Sheila" (Bennett).
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Pianoforte reproductions.
- 5.00 p.m.—"Big Ben," Close down.

EARLY EVENING SESSION.

- 4.45 p.m.—The Chimes of 2FC.
- 4.50 p.m.—"The Hello Man" talks to the children.
- 4.50 p.m.—A Serial Story.
- 4.55 p.m.—Dinner Music.
- 5.00 p.m.—"Big Ben," Last minute sporting information to the I.P.C. Racing Commission.
- 5.10 p.m.—Dalytons' Market Reports (wool, wheat, stock).
- 5.15 p.m.—Fruit and vegetable markets.
- 5.20 p.m.—Weather and shipping intelligence, Stock Exchange information.
- 5.25 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.45 p.m.—The Chimes of 2FC and programme announcements.
- 7.50 p.m.—Studio Items.

- 8.00 p.m.—Miss Peggy Dunbar, contralto; "Slow Horses" (Mallinson).

- 8.10 p.m.—A talk on Bridges by Mr. Grahame Smith.
- Titles: "Coronation Bridges."

- 8.15 p.m.—Mr. Alfred O'Shea, Australia's Foremost Comedian.
- 8.20 p.m.—Win and Winde, English entertainers.

- The Younger Family Buff."

- 8.25 p.m.—Miss Peggy Dunbar, contralto; "Song of my Mother Song" (Grimmshaw).

- 8.30 p.m.—Win and Winde, English entertainers.

- A Cup of Coffee" (Win).

- 8.35 p.m.—Mr. Alfred O'Shea, comedian.
- 8.44 p.m.—Mr. Scott Alexander will deliver the sixth of "Martin Meekin," topical Comedy Radio discussions, written especially for 2FC, written by Coddington Hall, entitled "The Abounds of Being Rich."

- 8.45 p.m.—Win and Winde, English entertainers.

- (a) "Wouldn't That be Lovely."

- (b) "Please" (Win).

- 8.50 p.m.—BROADCAST FROM THE THEATRE OF ROYAL ALBERT HALL, LONDON. The second set of the series of "Great Performances" featuring Maria Burke and Herbert Lomax.

- MUSICAL NUMBERS, ACT TWO: Scene, "THE NIGHT CABARET."

- "El Tango," soprano Miller, Ariele, Juliette, "El Rustic of the Legion," Marie Burke, Charles Lennox and Ballet.

- "Casta Diva" in Harriet-Lengend, Maria Eaton and Girls.

- "Dance de la Dame," Thurna Rogers and Robert Lomax.

- "The Love Spell," Marie Burke, Herbert Brown.

- "I'm So Popular," N. E. Harriet-Lengend, Thelma Burnside and Girls.

- "Farwell, My Love," Marie Burke.

- "Hush, Dear! Hush, Dear," Marie Burke, Herbert Brown.

- Finale, Marie Burke, Herbert Brown.

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

- 2FC—Farmer's Broadcasting Station, Lid, Sydney, wavelength 442 metres, power 5000 watts.

- 2BL—Broadcasters' Ltd., Sydney, wavelength 442 metres, power 5000 watts.

- 2GR—Theatricals Broadcasting Station, Lid, Sydney, wavelength 442 metres, power 300 watts.

- 2RY—Trades and Labor Council, Sydney, wavelength 280 metres, power 1000 watts.

- 2UW—Ottie Sandel, Sydney, wavelength 287 metres, power 300 watts.

- 2MK—Mackender Bros., Rothwell, wavelength 375 metres, power 350 watts.

- 2UE—Electrical Utilities Supply Co., Sydney, wavelength 295 metres, power 350 watts.

- 2BR—Burgen Electric Co., Sydney, wavelength 315 metres, 100 watts.

- 2D—A. Douglas, Newcastle, wavelength 285 metres, 100 watts.

- 10.15 p.m.—From the Studio:

- Mr. Alfred O'Shea, tenor.
- 10.22 p.m.—South, Alexander and company in an original Radio Comedy; written by Coddington Hall.

- MR. HOME-DROP DROPS THE HOME-DROP.

- Scene: During a Dance at the Wellington's. Characters: Mr. Sweetman, Home-drop, Mr. Scott Alexander, Mr. Home-drop, his Wife, Miss Ruth Wilson.

- 10.42 p.m.—Broadcast from the Wentworth Hotel, Sydney: The New Wentworth Symphonic Dance Orchestra under the baton of Mr. Frederick Leighton.

- 10.48 p.m.—"Big Ben,"

- 10.56 p.m.—Wentworth Cafe Dance Orchestra.

- 11.00 p.m.—"Big Ben."

- National Anthem.

- Closes down.

2BL, SYDNEY.

Broadcaster's Ltd.

Wave Length, 553 Metres.

Friday.

- 12 noon—G.P.O. Clock and chimes.
- 12.15 p.m.—Sports, German Football and athletics report.

- 12.30 p.m.—Musical programme from the studio.

- 12.45 p.m.—Information, State and Country and movements of important ships.

- 12.56 p.m.—Sydney Stock Exchange calls.

- 12.58 p.m.—Bonds in call by wireless.

- 12.59 p.m.—From Market report.

- 12.59 p.m.—London Metal Market report.

- 12.54 p.m.—Daily and Farm Produce Market report.

- 12.57 p.m.—Racing resume.

- 12.59 p.m.—G.P.O. Clock and chimes.

- 12.59 p.m.—Musical programme from the studio.

- 12.40 p.m.—Sporting Information (Sport).

- 12.46 p.m.—Hilliers' Instrumental Quartet—direction—Carol Casting.

- 12.47 p.m.—G.P.O. Clock and chimes.

- 12.48 p.m.—News from the "Sun."

- 12.49 p.m.—Music from the "Sun."

- 12.50 p.m.—Musical programme from the studio.

- 12.51 p.m.—News from the "Sun."

- 12.52 p.m.—Music from the "Sun."

- 12.53 p.m.—Talk to Children and special entertainment for Children in Hospital.

- 12.54 p.m.—Talk on Sport by Miss Gwen Varley.

- Social Notes—Letters to correspondents by Mrs. Jordan. Talk on "Feeding the Family" by Mrs. Jordan.

- 12.55 p.m.—G.P.O. clock and chimes.

- 12.56 p.m.—News from the "Sun."

- 12.57 p.m.—Musical programme from the studio.

- 12.58 p.m.—News from the "Sun."

- 12.59 p.m.—G.P.O. Clock and chimes.

- 1.00 p.m.—Cissie Series—Stutter Train.

- 1.15 p.m.—Serial Story.

- 1.30 p.m.—G.P.O. Clock and chimes.

- 1.31 p.m.—Musical programmes from the studio.

- 1.41 p.m.—News from the "Sun."

- 1.42 p.m.—Racing Resumes.

- 1.42 p.m.—Fruit and Vegetable market report.

Buy Right and You Must Buy Burgess!

4.45 p.m.—Resume of night's programme.
4.45 p.m.—Announcements.
4.45 p.m.—Special Ocean Forecast.
6 p.m.—G.P.O. Clock and chimes. Close down.

EARLY EVENING SESSION.
6.45 p.m.—G.P.O. Clock and chimes.
6.45 p.m.—Uncle George and the Kiddies.
6.45 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 courtesy of Govt. Meteorologist.
Producers' Distributing Society's Fruit and Vegetable Market report.
Stock Exchange reports.

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

7.15 p.m.—Country News from the "Sun".
7.20 p.m.—Talk on "Gardening Science" by Mr. Cooper, Park Superintendent, City Council.

7.30 p.m.—Talk on "Girls' Week."
7.45 p.m.—G.P.O. Clock and chimes.
Broadcasters' Topical Chat.

8.30 p.m.—Mr. Dick Matthews (light comedian).

8.31 p.m.—The Ahad Duo (steel guitars).

8.34 p.m.—Mr. Travers McGuire (harmonica).
8.35 p.m.—Broadcasters all-sports expert will talk on football.

8.45 p.m.—Broadcasters Trio.

8.46 p.m.—Resume of following day's programme.

9 p.m.—G.P.O. clock and chimes.
Weather report and forecast by courtesy of Mr. C. J. Martin, Govt. Meteorologist.

9.22 p.m.—Mr. Stan Cartwell (comedian).

9.30 p.m.—Mr. Raymond Beatty (bacon).

9.35 p.m.—Mr. Eric Harrison (humorist).

9.35 p.m.—Duet Miss Mille Hughes and Mr. Raymond Beatty.

9.37 p.m.—Mr. Dick Matthews.

9.44 p.m.—The shooting editor of the "Sun" will talk on the prospects of Saturday's newspaper.

9.54 p.m.—Broadcasters Trio.

10.4 p.m.—Miss Mille Hughes.

10.11 p.m.—The Ahad Duo.

10.18 p.m.—Mr. Eric Harrison.

10.25 p.m.—New items by courtesy of the "Sun" newspaper.

10.32 p.m.—Mr. Travers McGuire.

10.33 p.m.—Mr. Stan Cartwell.

10.46 p.m.—Mr. Raymond Beatty.

10.53 p.m.—Broadcasters Trio.

11 p.m.—G.P.O. Clock and chimes.

National Anthem.

2GB, SYDNEY

Theosophical Broadcasting Service.

Wave Length, 316 Metres.

Friday. MORNING SESSION.

8 a.m.—Music.
8.55 a.m.—"Cheerio" Talk.
9.15 a.m.—Music.
9.25 a.m.—Psychological Chats.
9.40 a.m.—Music.
9.45 a.m.—Health and Diet.
10 a.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Music.
3.37 p.m.—Talk.
3.52 p.m.—Music.
4.7 p.m.—Talk.
4.80 p.m.—Close down.

EVENING SESSION.

6.30 p.m.—Children's Session.
7 p.m.—Music.
7.35 p.m.—Talk.
7.45 p.m.—Music.
7.50 p.m.—Talk.
7.55 p.m.—Music.
7.56 p.m.—Talk.
7.56 p.m.—INSTRUMENTAL TRIO: DAN SCULLY, MURIELLE LANG, ADA BROOK.
8.5 p.m.—Address by Professor Ernest Wood.
8.20 p.m.—Songs by MADAM CHAUBERT.

8.58 p.m.—An Half-hour with the 2GB String Quartette: LLOYD DAVIES, MONICA HODDER, CHARLES BOULDET, MURIELLE LANG.

9.15 p.m.—Topical Talk.
9.15 p.m.—Violin Solos: DAN SCULLY.
1. "Spanish Serenade" (Laminade).
2. "India Lament" (Dovey).
9.23 p.m.—Song: MADAM CHAUBERT.
9.30 p.m.—Instrumental Trio:
MONICA HODDER, MURIELLE LANG, ADA BROOK.
10.53 p.m.—"Cheerio" Talk.
10 p.m.—Close down.

1.27 p.m.—STUDIO ORCHESTRA,
"Heloise" (Mangoy).
1.37 p.m.—BERYL HOLT, Contralto,
"Please" (Edward Elgar).
1.44 p.m.—DOROTHY ROXBURGH, Viola,
"Allegretto".
1.49 p.m.—BERYL HOLT, Contralto,
"Orpheus With His Lute" (Arthur Bulli-
van).
1.54 p.m.—STUDIO ORCHESTRA,
"Maytime" (Bomberg).
2.0 p.m.—Close Down.

AFTERNOON SESSION.

Speakers:

"AU FAIT,"
MRS. MAHOOD,
Artist:
JESSIE SHIMITE, Contralto.
WALTER SMITH, Cornet.
JOHN HENNAN and IDA NEWTON.
LEW JAMES.
DODIE WOLFE.

And
LEE WHITE and CLAY SMITH,
THE STUDIO ORCHESTRA.
Accompanist AGNES FORTUNE
Announcer MAURICE DUDLEY

1.00 p.m.—STUDIO ORCHESTRA,
"The Isle of Champagne" (Moses).
1.10 p.m.—"AU FAIT."
"Fashion Talk."
2.25 p.m.—JESSIE SHIMITE, Contralto,
"When the Night With Silly Silence."
"The Elm Moon."
3.30 p.m.—STUDIO ORCHESTRA,
"Canzonetta" (Herbert).
3.37 p.m.—LEE WHITE AND CLAY SMITH.
Will entertain you with selections from their repertoire.
4.17 p.m.—WALTER SMITH, Cornet,
"The Little Bulldogues."
4.32 p.m.—JOE BRENNAN, assisted by IDA NEWTON.
Ida Newton, "Old Days and New."
Joe Brennan, "Stewed Prunes and Peaches."
4.37 p.m.—STUDIO ORCHESTRA,
"Sweet Ponderings" (Langsy),
"In the Moonlight" (Langsy).
4.45 p.m.—LEW JAMES, Comedian,
"Jewmorisans."
4.44 p.m.—STUDIO ORCHESTRA,
"Schersis" (Mendelssohn).
4.52 p.m.—DODIE WOLFE,
"Humorous Impressions."
4.59 p.m.—MRS. CALLAWAY MAHOOD,
"Art in Modern Life."
4.59 p.m.—"Herald" News Service. Stock Exchange Information.
5.0 p.m.—Close Down.

EVENING SESSION.

CHILDREN'S HOUR.
Storyteller "BILLY BUNNY"
Speaker CAPT. DONALD MACLEAN
STEVEN'S SILVER BAND.

5.10 p.m.—Answers to letters and birthday greetings.
5.55 p.m.—STEVEN'S SILVER BAND,
March, "Hornes of Liberty" (Rimmer).
Valsetto, "Spring Blossoms" (Eugene Leccuti).
6.3 p.m.—"BILLY BUNNY" has a story for the little ones.

6.15 p.m.—STEVEN'S SILVER BAND,
Two-Step, "Sambo's Birthday" (J. B. Eulich).
Fox-trot, "On The Riviera" (Paul van Loon).
6.22 p.m.—CAPTAIN DONALD MACLEAN,
"The End of Encumbering and the Results".
Archived.

6.53 p.m.—"Argus" and "Herald" News Service; Weather Synopsis; Shipping Reports.

6.47 p.m.—Stock Exchange Information.

6.62 p.m.—Fish Market Reports by J. R. Morrissey, Rabbit Prices.

6.68 p.m.—River News.

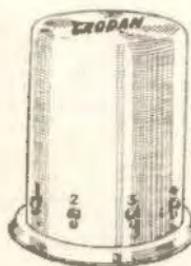
6.83 p.m.—Market Reports of Fruit, by the Victorian Growers' Association, compiled by "The Fruit World," exclusive to 2LO.

NIGHT SESSION.

Speakers:
MR. S. A. COOK,
"CARDIGAN".
MR. H. K. LOVE,
MR. C. J. WILLIAMS.
Artist:
OMARA AND BURKE,
STATION TRIO.

The Elstree SOLODYNE

Described in Last Week's Issue, having Proved a Wonderful Success, we Reprint Herewith a Revised List of Actually Tried Out Parts.



The Grodan
Screened Coil

List of Solodyne Parts.

	£ s. d.
1 Genuine Radion Panel; 21 x 7 x 3.16	0 15 4
1 Igranic Patent, .0005, 3-gang Special Condenser	0 12 6
1 Emmeo Bakelite Vernier Dial	0 7 6
1 MacLurcan Tone Purifier	1 1 9
1 Advance .00025 S.L.F. Condenser	0 9 6
2 Grodan Kit of 3 Solodyne Screened Coils	3 7 6
3 Emmeo Standard Spring Sockets, at 3/9	0 18 0
2 Advance Neutralising Condensers, at 1/6	0 9 0
1 Crescent Audio Transformer, 6 to 1	0 18 6
1 Crescent Audio Transformer, 3½ to 1	0 13 6
5 Renoude Filament Ballasts, .25, at 3/6	0 17 6
3 2MF Fixed By-pass Condensers, at 8/-	1 4 0
1 Special Terminal Board	0 4 0
1 Radioskes R.F. Choke	0 5 6
1 De Jur Control Knob	0 1 0
2 Doz. Square Buswires, at 1d.	0 1 8
<hr/>	
	£17 6 3

These Parts Carry our Absolute
GUARANTEE of SATISFACTION
or Money Returned.

COUNTRY CLIENTS!

We incur carriage on Orders of £10/- or over, except on Batteries, Loud Speakers, Cabinets and Value Post Posts.

"Yours For Lower Prices"
THE ECONOMIC RADIO STORES
25 ROYAL ARCADE, SYDNEY Phone M3409

Branches—PARRAMATTA, c/o Macquarie and Church Sts. "Phone" UW 8601
NEWCASTLE, 599 Hunter Street West. "Phone" NEW 1622

BERYL HOLT, Contralto.
H. WALLER, Baritone.
METE FELHAM.
THE FUTUREISTS.
JAMES RILEY, Tenor, and
LEE WHITE AND CLAY SMITH.
ELSA STRALIA AND MAXIM BRODI.
THE STUDIO ORCHESTRA.
COLLINGWOOD CITIZENS' BAND.
Conductor, Mr. F. C. Johnston.

JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
POPULARITIES.

7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MR. S. A. COOK, will speak on "Circumlocution—Maintaining Fertility—Citrus Soils." 7.30 p.m.—STUDIO ORCHESTRA, "First Symphony," 1st Movement (Beethoven).

7.45 p.m.—OMARA AND BURKE, Entertainers from the Emerald Isle. Chas. O'Mara,
"The Auld Plaid Shawl" (Britt Haynes).
"Crocroft's Lawn" (Suzette Lovell). Arna Burke
"There's Always a Song in an Irish Heart" (E. Ball).

7.50 p.m.—STATION TRIO,
"Gruff Song" (Schubert).

8.0 p.m.—BERYL HOLT, Contralto,
"The Arrow and the Song" (Balford).
"Ships That Pass in the Night" (T. W. Stephenson).

8.7 p.m.—COLLINGWOOD CITIZENS' BAND,
March, "The Toilers."

8.17 p.m.—H. WALLER, Baritone,
"The Sleepy Song" (Barry).

8.24 p.m.—STUDIO ORCHESTRA,
"First Symphony"—2nd Movement (Beethoven).

8.30 p.m.—METE FELHAM, Recital,
"Familiar Songs."

8.40 p.m.—COLLINGWOOD CITIZENS' BAND,
Overture, "Don Quixote".

Cornet Solo, "The Rose," F. Crawley.
8.50 p.m.—LEE WHITE AND CLAY SMITH,
will speak with you with selections from their repertoire.

8.56 p.m.—MR. H. E. LOVE,
"Technicities."

9.00 p.m.—STUDIO ORCHESTRA,
"Indian Summer" (Lake).

9.13 p.m.—ANNOUNCEMENTS.
9.15 p.m.—ELSA STRALIA and MAXIM BRODI.

Maxim Brodi,
"Lungi Dal Care Rehe" (Sarit).
"My Lovely Child" (Wilhem).

Elsa Stralia,
"The Swan" (Paganini).
"Ernest" (Verdi).

Elsa Stralia and Maxim Brodi,
Duet, "Miserece" (Verdi).

9.32 p.m.—MR. C. J. WILLIAMS, will discuss to-morrow's wrestling.

9.42 p.m.—Mr. John G. Smith, Official Wireless News from Rugby, Welsh Symbols.

9.48 p.m.—BERYL HOLT, Contralto,
"Out on the Rocks" (Krenek; Santon-Dolby).

"A Pearl for Every Tear" (S. Liddle).
9.54 p.m.—CARDIGAN, MR. H. W. WOLFE, Sporting Editor of the "Argus" and "Advertiser," will speak on Saturday's Races.

10.4 p.m.—H. WALLER, Baritone,
"One Perfect Hour With You" (Sawyer).
"I'll Sing Thee Songs of Arabia" (Clay).

10.51 p.m.—"THE FUTUREISTS" present their Easter Revue.

MICHOONICS.
The Company ask you to listen in,

GUS DAWSON and IRA VANDA erosion
a little time.

DISMAL DESMOND becomes more dismal
than ever.

A Playette, "SOLD AGAIN," with IRA VANDA, GUS DAWSON, and CYRIL NORTHCOTE.

IRA VANDA talks of "Viewing the Baby."

DESSY and CYRIL NORTHCOTE say a
few words each other.

THE COMPANY sing a finale.

10.51 p.m.—"The Radio Service," Read
Notes supplied by the Royal Victorian

Automobile Club of Victoria.

10.45 p.m.—JAMES ELEY, Tenor,
"Maf Lindy Lou" (Strickland).

"It is a Charming Girl I Lore" (Benedict).
10.48 p.m.—COLLINGWOOD CITIZENS' BAND,
Waltz, "Forest Flowers."

March, "Entry of the Gladiators."
11.0 p.m.—OUR GREAT THOUGHT.

"Two things well considered, would prevent many misgivings, first, to base it well ascertained whether we are not disputing about terms, rather than things, and secondly to examine whether that on which we differ is worth contending about."

—COLTON.

11.1 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS.

"By The Sign of a Rose" (Fields).

"Sunday" (Miller).

"Hello, Little Girl of My Dreams" (Berk).
"Hello, Alice" (Bart).

"The Original Black Bottom" (Henderson).
"I'm On My Way Home" (Berlin).

"Let's all Henry Ford" (Leslie).
"Ruffles and Folds" (Piano Solo (Barry)).

"The More We Are Together" (Campbell).
"Macy Loop" (Lyman).

"Ring Around the Bells" (Britt).
"Dale Face" (Alice).

"Somebody's Lonely" (Davis).
"A Cup of Coffee, a Sandwich, and You" (Meyer).

"Just a Bird's Eye View" (Donaldson).

"Just One More Kiss" (Owens).

11.46 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres

Friday

MORNING SESSION.

11.0 a.m.—Selections on the Brunswick Panatone.

11.30 a.m.—British Official Wireless Press received from Rugby Super Wireless Station, England; Express Train Information; "Age" News Bulletin, exclusive to 3AR.

12.0 p.m.—Time Signal Chime from G.P.O.; Stock Barometers and Outside Thermometer Readings; 1st Weather Forecast; Events of the day.

12.5 p.m.—Musical Selections from the Studio.

12.30 p.m.—Stock Exchange News.

12.40 p.m.—Musical Selections from the Studio.

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.

4VA, Dunedin, The Radio Broadcasting Co. of New Zealand, Ltd.

Power 750 Watts; Wave-length, 380 Metres.

2YM, The Gisborne Radio Co., Gisborne.

Power 50 Watts; Wave-length, 260 Metres.

12.55 p.m.—Mail Noise; Shipping Movements 1.0 p.m.—Close Down.

AFTERNOON SESSION.

2.30 p.m.—Studio Orchestra;
"June Love," Selections (Prim);

2.45 p.m.—Mr. Eddie Miller, Clarinet;
"C Minor Concerto" (Verdi).

2.49 p.m.—3AR Dance Orchestra;
"A Message From Missouri," "Fire."

"Princess Betty's Lullaby," "Minnie, Mine, Mine," Planct; "Polonaise, C. Sharp Minor" (Chopin).

2.56 p.m.—Studio Orchestra;
"High Jinks Selection" (Prim);

3.23 p.m.—Miss Dulce Joseph, Soprano;
"Vocal D'Arte" (Puccini); "My Heart's Desire."

3.25 p.m.—3AR Dance Orchestra;
"Ho, Ho, Ho, Me, Me, Too," "Black Bottom."

3.45 p.m.—Mr. E. Pettifer, Violin;
"Fernande" (Pergament);

3.48 p.m.—Studio Orchestra;
"Daffy Dell Selection" (Stahlhart).

4.0 p.m.—Time Signal Chime from G.P.O.; 2nd Weather Forecast; 3AR Dance Orchestra;
"I'm Going to Plant a Rose in California," "Dream of Love and You," "Drifting and Dreaming."

4.06 p.m.—Miss Dulce Joseph, Soprano;
"Chanson," "Florian," "Godeard," "Vale" (Kennedy Russell).

4.28 p.m.—Studio Orchestra;

"Selections."

4.55 p.m.—Evening Amusement Guide.

5.0 p.m.—Time Signal Chime from G.P.O.; Close Down.

EARLY EVENING SESSION.

6.45 p.m.—Children's Corner—Jimmy Jackson and the Farmyard Five.

EVENTING SESSION.

7.0 p.m.—Mr. George Beattie, of the Royal Physical Culture College; Physical Culture Talk.

7.45 p.m.—British Official Wireless Press; Studio barometer and outdoor thermometer readings.

Racing anticipations and sporting events of the coming week reviewed by Field Glassco.

Recital from the works of Mr. Pierre Stappera, Australian composer.

8.0 p.m.—Time signal chime from G.P.O. Instrumental Trio—Violin, Miss Louise Gregory; cello, Miss Elisabeth Lester; piano, Miss Marjory Firth.

8.15 p.m.—Miss Edna Stappers, soprano; "Lullaby."

"West, West" bird song.

8.15 p.m.—Miss Elizabeth Lester, cello; "Nocturne."

"Valse."

8.22 p.m.—Miss Edna Stappers and Mr. Will Phillips, vocal duet; "Beneditus"; "Ave Maria."

8.30 p.m.—Miss Louise Gregory, violin; "Praeludium and Variation," "Valse."

8.30 p.m.—Ten minutes with the composer, Mr. P. Stappera—A Chat.

8.45 p.m.—Miss Marjory Firth, piano; "Air de Ballet."

8.53 p.m.—Mr. Will Phillips, tenor; "Indian Serenade," "My Mandolin."

9.0 p.m.—Instrumental Trio; "Lair Breizhenn," "L'Amour."

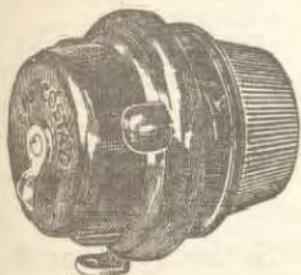
9.0 p.m.—Moments of pleasure and fun, with Mr. Milton Chick, baritone; "Gentle Dame Frizzella."

"You, Dear, and I" (From a sheet of little songs by Cummings Clark).

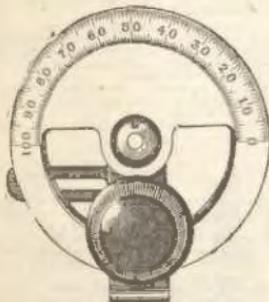
9.15 p.m.—Mr. W. J. Caffey, Irish humorist; 10 comic good old Irish stories.



Emmco "B" Eliminator, £10/10/-



Emmcostad, 7/6



Emmcostad Back-panel Vernier Dial, 5/6

The First "B" Battery Eliminator to work from Australian Mains

Now you can operate your radio set from the light socket. Merely by hooking up the new EMMCO "B" Eliminator. The result is surprising—light socket operation, maximum convenience, and smooth, silent power.

The EMMCO "B" Eliminator is noiseless. There is no hum. It is never low and never runs down, but is always exactly what is required by the set. It is permanent and is made especially to suit the current supplied by Australian lighting lines.

With sets of high current requirements the use of the EMMCO "B" Eliminator is highly desirable for the saving alone. Just check up on what it costs you for dry batteries.

Hundreds of receivers are now EMMCO equipped. It requires no changes in your set. Equip yours with an EMMCO "B" and convert it into a light socket receiver. End your "B" Battery worries.

*Know the pleasure of owning a set
always ready to operate at full power.*

Emmco Radio Apparatus

Manufactured by Electricity Meter Co. Ltd., Sydney

8.22 p.m.—One Act Play, "The Tent Kiss" (Katie Howard).
 Characters:
 Monica, Miss Molly Lucke.
 Jack, Mr. Geoffrey Mack.
 Ned—A young man.
 Time, evening.
 8.37 p.m.—Mr. Milton Chiel, baritone: "O, my Queen" (Brahms), "AVoicella" (Tosti).
 9.44 p.m.—Mr. W. J. Caffrey relates on more Irish humor.
 9.50 p.m.—Miss Molly Lucke. A child impersonation, entitled, "I couldn't help it, could I?"
 "Don't you mind it, Honey?" (Romp).
 10 p.m.—True signal chimes from G.P.O.
 10.05 p.m.—Weather news, readings.
 "Age" news bulletin, exclusive to SAR, Leggett's Orchestra.
 11 p.m.—Time signals chimes from G.P.O. Close down.

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" news.
 1.20 p.m.—From Hotel Carlton: lunch music played by Hotel Carlton Symphony Orchestra.
 1.35 p.m.—From the Observatory: Standard time signal.
 2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—From Hotel Carlton: Afternoon tea music played by Hotel Carlton Symphony Orchestra.
 4.15 p.m.—From the Studio: "Telegraph" news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—"Daily Standard" news; weather information; announcements.
 6.30 p.m.—Dedime stories by "The Sandman".
 7 p.m.—Market reports; stock reports.
 7.30 p.m.—Weather news; announcements.
 7.45 p.m.—Standard time signal.

W.E.A. MUSIC CLASS.

The Workers' Educational Association's Tutorial Classes in Music are being held this season in the Reception Hall at 4QG, and are being conducted by Mr. George Sampson, M.G.M. Advisor, Department of Public Instruction; Teacher in Music; Teachers' Training College.
 The object of holding the classes at 4QG is to broadcast both the lectures and the music, and no music available to a large audience the educational matter placed before the students. The classes will be held over a period, and will be held each Friday night.
 The ordinary lectures, which is usually given 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 the lectures.

The following artists will illustrate Mr. Sampson's lecture tonight:

Miss Vada Jeffries (first violin), Miss Larwill (second violin), Miss Gwen de Grant (viola), Miss Mary Jeffries (cello).
 Mr. Charles H. Williams (piano).

FROM THE RECEPTION HALL.

7.45 p.m.—W.E.A. Music class. The lecture will be illustrated by the following artists: Mrs. George Sampson (piano), Miss Edith Larwill (violin), Miss Gwen de Grant (viola), Miss Marjorie Stuart (cello). The ensemble will play "Schubert in E-Minor" (Lieder).

8 p.m.—Week-end road information for motorists officially supplied by the Royal Automobile Club of Queensland.

THE FEDERAL BAND.

8.15 p.m.—March, "Leviathan" (Rimmer), the Federal Band (conductor, Mr. W. H. Davis); a thought for to-night (Will H. Lister). "Yours and Promises"; Faustine, "Olympia"; "The Federal Band"; ten minutes of entertainment by the Brookford and Tivoli soprano solo, selected. Miss Anna Adams: euphonium solo, "Tyrolean" (Sutton), accompanied by the Federal Band; soprano solo, selected Miss Anna Adams; nine, "The Summer" (Gwen), the Federal Band; soprano solo, "Fettered Wings" (Phillips). Miss Ruth Porrett, flute, "When the Red Red Robin" (Woods); the Federal Band; ten minutes of humor by the Mahoney Duo.

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

5CL, ADELAIDE

Central Broadcasters, Ltd.

Wave Length, 325 Metres.

Friday.

MORNING SESSION.

12 noon—G.P.O. chimes.
 12.1 p.m.—Recitals on the "New Reproducing Sopranos" and the "Autotone Reproducer."
 12.2 p.m.—"Advertiser" news service.
 12.30 p.m.—Market reports.
 1 p.m.—G.P.O. chimes.
 1.15 p.m.—Recitals on the "New Reproducing Sopranos" and the "Autotone Reproducer" 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 Café—Orchestral selections.
 3.15 p.m.—From the Studio—Recitals on the "New Reproducing Sopranos" and the "Autotone Reproducer."
 4 p.m.—G.P.O. chimes.
 4.15 p.m.—Relay from the Arcadia Café—Orchestral selections.
 4.30 p.m.—Signal announcement.
 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 Restaurant Orchestra.
 6.45 p.m.—Children's bedtime stories.
 7.25 p.m.—Market reports.
 7.35 p.m.—Sporting talk by "Metropolitan".
 7.45 p.m.—Football talk by Mr. F. Johnson.
 8 p.m.—G.P.O. chimes.
 8.1 p.m.—Malcolm Reid's Warhorses, orchestral selections.

8.15 p.m.—Contralto solo, Miss Jean Rinder.
 8.19 p.m.—Malcolm Reid's Orchestra.
 8.30 p.m.—Song, Mr. Syd Morell.
 8.33 p.m.—Malcolm Reid's Orchestra.
 8.46 p.m.—Cello solo, Mr. Bert Zeitz.
 8.51 p.m.—Weather report.
 9.30 p.m.—Dalyell's weather report.
 9.44 p.m.—Windarri Male Quartette.
 9.50 p.m.—Band solo, Mr. Seth Smith.
 9.52 p.m.—Song, Mr. Ken Hughes.
 9.55 p.m.—Talk by Mr. Fowler, manager of Blackpool Exposition.
 9.58 p.m.—Song, Mr. Norman Sheppard.
 9.54 p.m.—Cello solo, Mr. G. Goldsworthy.
 9.59 p.m.—Windarri Male Quartette.
 9.48 p.m.—Pianoforte solo and solo, Mr. Tom King.
 9.50 p.m.—Recitation (humorous), Mr. David Jackson.
 9.55 p.m.—Song, Miss Jean Rinder.

10 p.m.—G.P.O. chimes.
 10.1 p.m.—"Advertiser" news service.
 10.20 p.m.—Song, Mr. Syd Morell.
 10.23 p.m.—Cello solo, Mr. G. Goldsworthy.
 10.26 p.m.—Windarri Male Quartette.
 10.28 p.m.—Recitation, Mr. D. Jackson.
 10.44 p.m.—Song, Mr. Bert Zeitz.
 10.48 p.m.—Cello solo, Mr. G. Goldsworthy.
 10.52 p.m.—Song, Mr. Syd Morell.
 11 p.m.—G.P.O. chimes and close down.

6WF, PERTH

Westralian Farmer's,
 Wave Length, 1250 Metres.

Friday.

12.30 p.m.—Tune in.
 12.35 p.m.—First local news bulletin.
 Market reports.
 Colles.

1.30 p.m.—Time signal from Perth Observatory.
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.

1.30 p.m.—Studio Quintet. (Conductor, Mr. Val Smith): "Summerlike Moon" (Elliot), "Under Another" (Smith), "Espionage" (Leigh), "Manana" (Mistud).

2 p.m.—Close down.
 3.30 p.m.—Music programme.
 3.30 p.m.—Close down.

3.35 p.m.—Tune in.
 3.40 p.m.—Musical evening for the kiddies, by Aunt Evelyn, and Uncles Henry, Leslie, Perry and Duff.

3.45 p.m.—Stock and Share intelligence.
 Market reports.
 Cables. News by courtesy of "The West Australian" Newspaper Co.

3.45 p.m.—Talk.
 3.45 p.m.—Time signal from Perth Observatory.

3.45 p.m.—Point of Light.
 Musical programmes, including artists: Mr. McDonald, flautist.
 Miss Gertrude Bradley, soprano.
 Misses Sutton and Foley, instrumental duo, of the s.a. Karoola.

3.45 p.m.—Talk: "Gardening Notes," by Mr. E. A. Hughes, representing Messrs. Dawson and Harrison.

3.55 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
 Weather report and forecasts.

3.55 p.m.—Report by Mr. H. S. Nation, of the Nation School of Physical Culture.
 10.00 p.m.—Close down.

Saturday, June 4

2FC, SYDNEY

MIDDAY AND AFTERNOON SESSION.

12 noon—"Big Ben" and programme announcements.
 12.2 p.m.—Stock Exchange, first call.

12.3 p.m.—Point of View, forecast, rainfall, temperature, almanac, memoranda, shipping intelligence, mail services.

12.3 p.m.—Studio music.
 12.15 p.m.—Summary of "Sydney Morning Herald" news service and cables.

Rugby Wireless News.

12.35 p.m.—A Talk on Gardening by Mr. G. J. Lockley ("Regum").

12.45 p.m.—Studio music.
 1.15 p.m.—Evening News' Midday news service.

Racing news in connection with the racing meeting at Rosehill will be announced in the running direct from the course by the 2FC Racing Combinations.

During racing intervals musical items from the Studio will be given by Mr. Tom Fozzitt, novelty pianist.

Entitled will be given of all grades of football, tennis, golf and the result of the Australian Inter-State rowing on the Nepean River.

1.30 p.m.—Complete Resumé of the Afternoon's Sporting Events.

1.35 p.m.—"Big Ben." Close down.

SENSATIONAL RADIO ACHIEVEMENT

Australia and New Zealand listen-in to London
DISTANCE ANNIHILATED

On Saturday morning, the 21st May, between the hours of 1 and 7 a.m. (Sydney time), the full programme broadcasted by

2LO LONDON

was received in Sydney through Station P.C.J.J. and re-broadcasted by

2BL SYDNEY
(Broadcasters, Sydney, Ltd.)

throughout Australia and New Zealand, where the reception was delightfully clear and distinct.

The re-broadcasting was performed through the agency of Mullard valves, with which 2BL station is entirely equipped.

"Mullard" brings it home to you

*Outfit Your Set with Mullard Valves
On Sale Everywhere.*

Mullard

THE · MASTER · VALVE

EARLY EVENING SESSION.

- 5.45 p.m.—The "C" line of 2FC.
 5.55 p.m.—The "Hello Man" talks to the children.
 6.30 p.m.—A serial story for the older ones.
 6.45 p.m.—Dinner music.
 7 p.m.—Late sporting information.
 7.15 p.m.—Weather intelligence.
 7.18 p.m.—Late "Evening News" news service.
 7.35 p.m.—Studio music.

NIGHT SESSION.

- 7.45 p.m.—The Chimes of 2FC.
 Programme announcements.
8 p.m.—BROADCAST FROM THE CRYSTAL PALACE THEATRE, SYDNEY:
 Orchestra under the baton of Mr. G. Harry Stone.
"Bachmannoff's Prelude and the Russian Rag."
 8.10 p.m.—Mr. Donald Mack, baritone.
8.15 p.m.—FROM THE CRYSTAL PALACE THEATRE, SYDNEY:
"The Russian Ballad" incidental to the film "The Volga Boatman".
 The Russian Choir will be heard in the song, "The Volga Boatman". Mr. Barnes Harris, basso, and Miss Dorothy Hawtree will sing "Petruška."

- 8.30 p.m.—From the Studio:**
 The Radio Revellers organised by Mr. Laurence Halbert in their opening chorus.
8.42 p.m.—STUDIO ORCHESTRA:
"Do You Know my Garderobe?" (Worrell).
8.48 p.m.—Mr. Charles Lawrence, entertainer:
"You can't please everybody!" (Talbot).
8.50 p.m.—The Revellers' Dance Band.
8.49 p.m.—Radio Burlesque by Mr. Laurence Halbert and Mr. Wally Baynes.
8.55 p.m.—Miss Peggy Peat, soprano:
"O, If I Only had You!" (Friend).
9 p.m.—The Revellers' Dance Music by the Revellers' Dance Band.
9.02 p.m.—Miss Gladys Fimister, soprano:
"The Snow Man" (Fisher).
9.10 p.m.—Mr. Charles Lawrence, entertainer:
 (a) "Fancy Fishing Story."
 (b) "Forgotten" (O'Hagan).
9.20 p.m.—A Radio Sketch by members of the Revellers.
9.25 p.m.—Mr. Donald Mack, baritone.
9.32 p.m.—Revellers' Dance Band.
9.38 p.m.—Miss Gladys Fimister, soprano:
"Forest Echoes" (Phillips).
9.44 p.m.—Mr. Wally Baynes, comedian.
9.48 p.m.—2FC Dance Band, with Mr. Len Mairose, popular baritone.
9.55 p.m.—Novelty Sketch.
10 p.m.—"Big Ben."
 Miss Peggy Peat, soprano:
"When I'm Not Happy" (Friend).
10.05 p.m.—2FC Dance Band; Mr. Eric Pearce, conductor.
10.15 p.m.—Final Chorus by the Revellers.
10.20 p.m.—2FC Dance Band.
10.30 p.m.—Mr. Laurence Halbert, baritone.
10.35 p.m.—2FC Dance Band.
10.45 p.m.—Late news and announcements.
10.48 p.m.—2FC Dance Band.
11.22 p.m.—The 2FC Dance Band will play dance numbers until 11.45 p.m.
11.45 p.m.—"Big Ben."
 National Anthem.
 Close down.

2BL, SYDNEY

Saturday.

- 11 noon.—G.P.O. Clock and chimes.
12.1 p.m.—Special Ocean Forecast and weather.
12.3 p.m.—Musical programme from the studio
12.5 p.m.—News from the "Sun".
12.15 p.m.—Talk by Mrs. Jordan on "Simple Cooking for Children".
 Social Notes—Replies to correspondents by Mrs. Jordan.
1 p.m.—Musical programme from the studio.

- 1.15 p.m.—Talk on Sporting and athletic Fixtures for the week. Lacrosse, Hockey, Tennis, Football, Sailing, Boating. During the afternoon sporting information will be broadcast by courtesy of the "Sun". Newspapers interspersed with musical programme from the studio.
 During the afternoon announcements and result of 50 Mile Track Walking Championship will be broadcast, also the Soccer and Rugby League Football Matches.
 4.45 p.m.—Resume of night's programme.
 5 p.m.—G.P.O. clock and chimes.
 6.1 p.m.—Racing Results.
 6.5 p.m.—Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and chimes.
5.48 p.m.—Uncle George and the Kiddies.
 6.45 p.m.—Musical programme from the studio including Racing, Bowls, Tennis, Swimming, Athletics, by courtesy of the "Sun".
 7.30 p.m.—Country Music from the "Sun".
 8 p.m.—G.P.O. Clock and chimes.
 Broadcasters' Topical chorus.
8.3 p.m.—Final Adjudications of the Wollongong Eisteddfod. adjudicator, Dr. C. A. Jarman. The finale will include: Male chorus, male quartet, male duet, soprano solo, baritone solo, violin duet, humorous recitation.

SLO, MELBOURNE.

Saturday.

- MORNING SESSION.**
THE STUDIO ORCHESTRA.
FREDERICK GEORGE, C. RICHARD CHUGG, LEW JAMES AND DODIE WOLFE, MAXWELL CAREW, AGNES FORTUNE, JOE BRENNAN AND IDA NEWTON, THE FUTURISTS, JESSIE SHIMITH, HERTHA JORGENSEN.
 Announced MAURICE DUDLEY Accompanied AGNES FORTUNE
11.0 a.m.—STUDIO ORCHESTRA, Cobbler and the Fairy
11.10 a.m.—FREDERICK GEORGE, Baritone, "Tom a Cornish Man," "Just Around the Corner"
11.17 a.m.—C. RICHARD CHUGG, Flute, "Romance," "Memories."
11.24 a.m.—LEW JAMES, in a few "Romances."
11.30 a.m.—STUDIO ORCHESTRA, "Romance d'Automne."
11.40 a.m.—DODIE WOLFE, "Humorous Impressions."
11.47 a.m.—AGNES FORTUNE, Piano, "I'm a Little Teapot," "I'm a Little Flower," "I'm a Little Birdie," "I'm a Little Fishie," "I'm a Little Doggy," "I'm a Little Monkey."
11.52 a.m.—MAXWELL CAREW, Comedian, "Humorous Sketch."
12 noon.—Time Signal; British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables;
12.30 p.m.—STUDIO ORCHESTRA, "Martha" (Housman).
12.35 p.m.—JOE BRENNAN AND IDA NEWTON, "Minion," "Football Match." "You Ought to See Her Now."
12.40 p.m.—Stock Exchange Information.
12.45 p.m.—"THE FUTURISTS," present their Radio Revue, "Patchwork." The Company greet you.
 GUS DAWSON will sing and dance a few short sketches.

- J.R. VANDA in a grave and gay mood.
 DISMAL DESMOND and CYRIL NORTH-COTE discuss the day's doings.
 A Finale by the Company.
1.0 p.m.—Description of the York Hurdle, Flemington, by "Musket" of the "Sporting Globe".
1.15 p.m.—Meteorological Information, "James Riley," Tenor.
"My Snowy Breasted Pearl" (Irish), "The Lark New Leaves" (Hatton).
1.20 p.m.—STUDIO ORCHESTRA, "Country Girl" (Godfrey).
1.30 p.m.—JESSIE SHIMITH, Contralto, "Elegy" (Mussorgsky).
"The Cliffs of Heaven" (Dunhill).

- 1.37 p.m.—BERTHA JORGENSEN, Violin, "A Lumber" (Goland).
1.40 p.m.—Description of the Princeps Handicap, Flemington Races, by "Musket" of the "Sporting Globe".
1.45 p.m.—STUDIO ORCHESTRA, "The Dying Poet" (Gottschall).
1.55 p.m.—JESSIE SHIMITH, Contralto, "Blackbird Song" (Sant).
 2 p.m.—Close Down.
2.15 p.m.—Description of Hopetoun Steeple at Flemington Races, by "Musket" of the "Sporting Globe".
2.40 p.m.—LEAGUE FOOTBALL—GEOELONG v. ST. KILDA. Description by Mr. Rod McGregor, transmitted from Geelong.
 2.50 p.m.—Close Down.

AFTERNOON SESSION.

- JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.**
3 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS, "Burgundy" (Mae West).
 "Boys" (Blackbird) (Diana).
"To-night's My Night With Baby" (Meyer).
"Half a Moon is Better Than No Moon" (Reynolds).
"Idolising" (West).

- 3.15 p.m.—Description of Royal Handicap, Flemington Races, by "Musket" of the "Sporting Globe".
3.20 p.m.—LEAGUE FOOTBALL—GEOELONG v. ST. KILDA, Quarter Time. Description by Mr. Rod McGregor, transmitted from Geelong.

- 3.30 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS,** "In Little Spain" (Town) (Waagen).
"Me Too—Ho! Hu! Hu!" (Hernan).
"I've Been Wasting My Dreams Over You" (O'Hagan).
"Take in the Sun, Hang out the Moon" (Wood).

- "That's Why I Love You" (Donaldson).*
"I'm Longin' For You" (Hathaway).
"The Village Blacksmith" (Moore).
 3.50 p.m.—Description of Sandringham Handicap, Flemington Races, by "Musket" of the "Sporting Globe".

- 3.55 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS,** "Kentucky Lullaby" (Miller).
"There Ain't No Maybe in My Baby's Eyes" (Kahn).

- 4 p.m.—LEAGUE FOOTBALL—GEOELONG v. ST. KILDA, Half Time.** Description by Mr. Rod McGregor, transmitted from Geelong.

- 4.10 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS,** "I've Got the Gid" (Donaldson).
*"You've Got to Be Black Shufflin'" (Spark).
 That Samson and Delilah Melody" (Gray).
"Ever Little Thing" (Spencer).
"Five Little Ducks" (Adney).
*"Selected" (Adney).**

- 4.30 p.m.—Description of Buckingham Walter, Flemington Races, by "Musket" of the "Sporting Globe".

- 4.35 p.m.—LEAGUE FOOTBALL—GEOELONG v. ST. KILDA, Three-quarter-time.** Description by Mr. Rod McGregor, transmitted from Geelong.

- 4.45 p.m.—"Herald" News Service; Stock Exchange Information.**

- 5 p.m.—Results of the University Boat Race, Sydney, will be given as they come in.

- 5.00 p.m.—LEAGUE FOOTBALL—GEOELONG v. ST. KILDA, Final Scores.** by Mr. Rod McGregor, transmitted from Geelong.

- 5.10 p.m.—Close Down.

EVENING SESSION.

- CHILDREN'S HOUR.**
 Storyteller—"LITTLE MISS KOOKABURRA".
 OMARA AND BURKE,
 GERTRUDE ARMSTRONG.
 6.30 p.m.—Sporting Results.
 6.45 p.m.—Answers to letters and birthday greetings.
 6.55 p.m.—OMARA AND BURKE,
"The Minstrel Boy" (Tom Moore),
"Little Town in Old Country Down" (Caples and Saunders),
"Danny Boy."
 6.55 p.m.—"LITTLE MISS KOOKABURRA" will tell you how
"Puss and Patch Ran Away."

Guaranteed 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.

→ BELOW IS A LIST OF A FEW POPULAR PARTS →

SOLODYNE RECEIVER.

1 Panel, 21 x 7. Bakelite, 12/-, Dilecto	15/-
1 Gang Condenser, Igranic, with balancing condensers	£5.12/6
1 MacIntosh Tone Purifier	2/-
1 500/25 Condenser, Advance, 9.6. Emino	12/-
1 Screen Kit, Gordan, £3/7/6. Radiokes	75/-
5 Sockets, Buffalo, 1/8; Benjamin, each	5/-
2 Midget Condensers, Advance, each	6/-
2 Transformers, F.M.C., 13/6; Geico, each	32/-
2 Filament Controls, Brachistats, each	4/9
1 Terminal Board	2/8
1 R.A. Choke, Radiokes	8/8

BATTERY CHARGERS.

Colmox "A" Battery Charger	£5.10/-
Colmox "A" and "B" Battery Charger	£6.10/-
Balkite "B" Eliminator, BX	210/15/-
Balkite "B" Eliminator, BW	£11.10/-
Philips "B" Eliminator	29/15/-
Balkite Trickle Charger	24/7/0
Willard "A" Power Unit Trickle Charger and Accumulator combined, 4v., 25; 8v., 26; large cap. Accumulator	

BATTERIES, DRY.

Columbian, 45v., flat or upright types	25/-
Burgess, 45v., flat or upright types	26/-
Voltex, 45v., flat	22/0
Ever-ready, 32v., 9/6. Large capacity	16/0
Ever-ready, 32v., 12/6. Large capacity	21/-
Ever-ready, 30v., 18/. Large capacity	32.8
Ever-ready, 4.5 "C" Battery	2/0
Burgess 4.5 "C" Battery	4/-
Ever-ready 1.5 "A" Battery	1/-
Columbian 1.5 "A" Battery	2/0
Burgess 1.5 "A" Battery	4/-
Ever-ready 4.5 "A" Battery	0/-

BATTERIES, WET.

Philips, 90v., 53X	£8.15/-
Frida, 20v. units	£1.10/-
Three Star, 20v. units	£1.1/-

NEUTRODYNE RECEIVER.

1 Colmox Kit, comprising (3) 300/35 Variable Condensers, Neutralising Condenser and Diagram	80/-
1 Radiokes Kit, 32/0; Gordan Kit	37.6
2 Neutralising Condensers, each	2/-
1 Panel, 22 x 8 x 1/2. Dilecto	12/-
1 Rheostats, De Jure, each	1.9
1 Terminal Board	2/8
2 Transformers, F.M.C., 13/8; Geico, each	32.4
1 .00025 Grid Condenser, with Lead	4/0
1 .008 Condenser, Igranic, 2/6; (1) 1 Mid.	4/-

FLEXIBLE WIRES.

Twin Flex., stranded, 20/30	per yd. 6d.
Single Flex., in Green, Yellow, Blue, Red and Brown	per yd. 3d.
Miniature Twin Flex., silk covered	per yd. 3d.
Twin Flex., 14/36	per yd. 7.6
Beldon Loop Wire, 125ft. reels, cotton covered ..	11/3
Beldon Loop Wire, 125ft. reels, silk covered ..	11/3

GRID LEAKS.

Bradley leak, Variable, 4-10 meg.	15/-
Variomix, Variable, 4-10 meg.	8/-
Electrad Fixed Leak, 1.5 meg.	1/-
H. and H. Fixed Leak, 1.5 meg.	1/9

SOCKETS.

U.C., Brown, Bakelite	1.8
Advance, Porcelain, U.X.	2.3
Benjamin Shock Absorber	3/-
English Sockets, each	6d.
Pilot, U.X.	2/3

PLUGS.

H. and H., semi-automatic	2.3
E.Z.E.	2.6
Philmore	1.0

JACKS.

Single circuit	1.0
Double circuit	2.0
Single circuit, Fil. control	2.6
Double circuit, Fil. control	3.6

Colville Moore Wireless Supplies Limited,

10 ROWE STREET

(Next Hotel Australia)

SYDNEY.

'Phone, B 2261

6.15 p.m.—GERTRUDE ARMSTRONG:

Pipe Selections.

6.30 p.m.—"LITTLE MISS KOOKABURRA."

The next instalment of the exciting story,

"The Crime of the Saucy Jane," (A Ter-

rible Fib).

6.35 p.m.—"Argus" and "Herald" news ser-

vice. Weather synopsis. Shipping move-

ments.

6.47 p.m.—Stock Exchange information.

6.52 p.m.—Fish market reports by J. R. Bor-

rell, Rabbit prices.

6.57 p.m.—Electoral Reports.

6.58 p.m.—Market reports by the Victorian Producers Co-operative Co. Ltd. Newsmar-

ket sheep sales. Poultry, Grain, Hay,

Straw, Jute, Dairy Produce. Potatoes and Onions.

7.00 p.m.—Market reports of Fruit, by the Victoria Fruitgrowers Association, compiled by the "Fruit World" exclusive to S.A.O.

NIGHT SESSION.

Speakers:

MR. R. RAWSON.

MR. E. PESCOFF.

DR. LEACH.

MR. NORMAN McCANCE.

Artists:

LEE WHITE AND CLAY SMITH,
ELSA STRALIA AND MAXIM BRODI.

EDOUARD LAMBERT.

RAYMOND LAMBERT.

EVERLY COLE.

BRUNSWICK CITY BAND.

WRESTLING MATCH.

Announcer ALFRED ANDREW.
Accompanist AGNES FORTUNE.7.15 p.m.—MR. R. RAWSON will speak on
"Experiments".

7.30 p.m.—MR. E. E. PESCOFF:

"Australian Insect-Eating Plants."

7.45 p.m.—LAWRENCE:

"Skills and Accents."

8.00 p.m.—BRUNSWICK CITY BAND:

March, "The Colours' Parade" (Hussey),
"Mazzeppa" (Greenslade).

8.10 p.m.—PERTI HOLT, contralto:

"The Last Hour" (Kramer).

"Break, Break, Break" (Cane).

8.17 p.m.—RAYMOND LAMBERT, piano:

"Prelude, Chorale and Fugue," Part I and

(Part II) (Frank).

8.27 p.m.—ELSA STRALIA AND MAXIM

BRODI:

"Don Juan Serenade" (Tchaikowsky).

"Where'er You Walk" (Handel).

MAXIM BRODI:

"Softly Awakes my Heart" (Saint-Saens).

"Angels Guard Thee" (Goddard).

ELEA STRALIA:

Duet, "Oh, Lovely Night" (Roulli).

8.40 p.m.—MR. NORMAN McCANCE will

give a description of the Wrestling Match

at the Melbourne Stadium.

10.15 p.m.—EDOUARD LAMBERT, violin,

Raymond Lambert, piano:

"Sonata: Flute" (Frank).

10.25 p.m.—LEE WHITE AND CLAY SMITH

will entertain you with selections from their

Repertoire.

10.35 p.m.—BRUNSWICK CITY BAND:

"Concord" (Hedder).

11.00 p.m.—ROYAL VICTORIAN AUTOMOBILE

CLUB OF VICTORIA'S SAFETY MES-

SAKS:

ANNOUNCEMENTS: "Always use low or second

gear when descending very steep hills. Never

adopt the dangerous practice of coasting

with the gear lever in neutral."

OUR GREAT THOUGHT:

"A man's possessions are just as large as his own soul. If his titles add cover more, the amply across own him, not he the acres."—H. E. Hallinan.

11.30 p.m.—JOHN ANTHONY AND HIS

SYNCO-SYMPHONISTS:

"Moonlight on the Ganges" (Wallace).

"Some other Bird whistled a Tune" (Bryan).

"While the Years go Drifting By" (Katal).

"Clap Hands here comes Charlie" (Meyer).

"How could Red Riding Hood" (Randolph).

11.45 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Saturday.

MORNING SESSION.

11.00 a.m.—Selections on the Brunswick Pen-

11.10 p.m.—British Official Wireless Press re-

ceived from Rugby Wireless Station, Eng-

land; Express Train Information; "Argu-

s" News; "Telegraph" (London).

12 noon—Time Signal Chime from G.P.O.;

Studio Barometer and Outdoor Thermometer

Readings; 1st Weather Forecast; Events of

the Day.

12.45 p.m.—Musical Selections from the

Studio.

1.15 p.m.—Stock Exchange News; Market

Reports; Foreign Exchanges of the World,

supplied by the courtesy of Messrs. Thos.

Cook and Sons.

12.40 p.m.—Musical Selections from the

Studio.

12.55 p.m.—Mail Notices; Shipping Move-

ments.

1.0 p.m.—Close Down.

AFTERNOON SESSION.

V.R.C. MEETING, WELINGTON,

Racing: The V.R.C. Meeting at Flemington

will be fully described as each race

is run.

Sports Results will be broadcast as they

come to hand.

1.0 p.m.—Description York Hurdle Race, 2

miles.

1.45 p.m.—Description Prince's Handicap, 4

miles.

2.30 p.m.—Studio Orchestra: Under the Direc-

tion of Mr. Ronald Brearley;

"At the Brook" (Boieldieu);

2.35 p.m.—Description Hopetoun Steeple Chase,

2 miles $\frac{1}{2}$ furlong.

2.45 p.m.—Miss Freda Trewick, Mezzo

Soprano, "Obstinacy" (de Fontenilles).

"Lullaby" (Brahms).

2.55 p.m.—Studio Orchestra,

"Suite Intermezzo" (Fred Rose).

3.0 p.m.—Mr. Ronald Brearley, Cello,

"O Star of Eve" (Wagner), by request.

3.15 p.m.—Studio Orchestra,

"Polish Dance" (Schubert).

3.15 p.m.—Description Royal Handicap, 6 fur-

longan.

3.25 p.m.—Miss Freda Trewick, Mezzo

Soprano, "Break, Break, Break" (Lewis Casy).

3.25 p.m.—Studio Orchestra,

"The Waltz" (Dvorak).

3.45 p.m.—Miss Freda Trewick and Mr. New-

stead Bush, Duet,

"The Sweetest Flower That Blows" (Hawley).

3.44 p.m.—Studio Orchestra,

"La Lijserja" (Chaminade).

3.50 p.m.—Description Buntingham Handicap,

1 mile.

3.56 p.m.—Mr. Newstead Bush, Bass,

"The Son of Hybris the Cyclops" (Elliot).

4.0 p.m.—Time Signal Chime from G.P.O.; 2nd

Weather Forecast.

Studio Orchestra,

"Nocturne" (Krasznowski).

4.15 p.m.—Mr. B. Petter, Violin:

"The Devil and Leander,"

"Serenade" (Zemlinsky).

4.30 p.m.—Description Buntingham Wellier, 1

mile.

Mr. Newstead Bush, Bass,

"Passing By" (Old English).

"Within These Sacred Bowers" (Schumann).

4.45 p.m.—Studio Orchestra,

"Sinfonia" (Sibelius).

4.55 p.m.—To-night's City Amusement Guide.

5.0 p.m.—Time Signal Chime from G.P.O.: Close Down.

EARLY EVENING SESSION.

4.45 p.m.—Children's Corner, Uncle Mac.

EVENING SESSION.

5.0 p.m.—Time Signal Chime from G.P.O.;

Studio Barometer and Outdoor Thermometer

Readings; Final Sportive Results; Local News.

5.10 p.m.—Dance.

EVENING SESSION.

5.10 p.m.—Relay from Covent Garden Res-

taurant—Orchestral Selections.

5.15 p.m.—Bedtime Stories.

5.30 p.m.—Markets report by Messrs. S. C.

Ward and Co., A. E. Hall and Co., A. W.

Sandford and Co., Dalziel and Co., G. A.

Farmers Coop. Union, Taylor Bros.

5.45 p.m.—G.P.O. Chimes.

5.45 p.m.—Song, Mr. Harry Worden.

5.55 p.m.—Violin solo, Mr. J. J. Gleeson.

5.10 p.m.—Carmichael's Dance Orchestra.

5.30 p.m.—Song, Miss Lynne Gilbert.

5.45 p.m.—Xylophone solo, Mr. T. Nunn.

5.55 p.m.—Song, Miss Hazel Whited.

9.30 p.m.—Week-end Traveller's Information,

supplied by courtesy of Victorian Railways Department.

9.50 p.m.—Leggett's Ballroom Orchestra.

10.0 p.m.—Time Signal Chime from G.P.O.;

Studio Barometer and Outdoor Thermometer

Readings.

10.5 p.m.—Leggett's Ballroom Orchestra.

11.0 p.m.—Time Signal Chime from G.P.O.: Close Down.

4QG, BRISBANE.

No Midday Transmission.

AFTERNOON SESSION.

5.25 p.m.—Tone In.

5.30 p.m.—A matinee for little listeners by

Miss Waratah.

5.45 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Bedtime stories by Uncle Ben and

Uncle Jim.

7.15 p.m.—Racing results.

7.20 p.m.—Today's football play described.

7.30 p.m.—"Saline" (Fitzgerald), by request.

7.45 p.m.—"Zoology and Public Utilities," by

Mr. R. A. McLean (Chairman, Executive Committee, Town Planning Association of Queensland).

NIGHT SESSION.

SP. AUGUSTINE'S MALE PARTY.

The first portion of Banister's programme will be provided by the St. Augustine's Male Party.

8.00 p.m.—From the Studio—Choral, "Are Verum" (Gounod); Male Party; violin

"Tranquillity"; Mr. Fred Frize, tenor solo;

"The Gardener"; Mr. Artie Smith; bass solo;

"Perfect Day"; Male Party; bass solo;

"Drake's Drum"; Mr. John Regan; tenor solo;

"The Veteran's Song"; Mr. A. Collingwood; chorals.

8.15 p.m.—Little Tommy Went A-Courtin'; Mr. Frank Quinn; tenor solo;

"Sally in Our Alley"; Miss Lynne Gilbert;

"The Green Eye of the Yellow God"; Mr. Frank Laurigan; baritone solo;

"That Old Irish Mother of Mine"; Mr. J. B. Cleine; chorals; "Annie Laurie"; Male Party.

DANCE MUSIC.

8.00 p.m.—From Lennox's Ballroom. Dance music.

8.15 p.m.—From the Studio. "The Sunday Mail"; weather news. Close down.

5CL, ADELAIDE.

Saturday.

MORNING SESSION.

11.00 a.m.—G.P.O. chimes.

11.15 a.m.—Recitals on the "New Reproducing System" and "Automatic Reproducer."

12.30 p.m.—"Advertiser" news service.

14.45 a.m.—Musical programme.

12 noon.—G.P.O. chimes and close down.

AFTERNOON SESSION.

12.45 p.m.—From Victoria Park racetrack—

Description of the races, by Mr. Arnold True

four, interspersed with football and interstate

sporting results.

5.30 p.m.—Close down.

EVENING SESSION.

6.00 p.m.—G.P.O. chimes.

6.15 p.m.—Relay from Covent Garden Res-

taurant—Orchestral Selections.

6.45 p.m.—Bedtime stories.

7.00 p.m.—Markets report by Messrs. S. C.

Ward and Co., A. E. Hall and Co., A. W.

Sandford and Co., Dalziel and Co., G. A.

Farmers Coop. Union, Taylor Bros.

7.45 p.m.—G.P.O. chimes.

8.00 p.m.—Song, Mr. Harry Worden.

8.30 p.m.—Violin solo, Mr. J. J. Gleeson.

8.10 p.m.—Carmichael's Dance Orchestra.

8.30 p.m.—Song, Miss Lynne Gilbert.

8.45 p.m.—Xylophone solo, Mr. T. Nunn.

8.55 p.m.—Song, Miss Hazel Whited.

Important Announcement.

A. C. COSSOR LTD.

of Highbury, London, have specially designed 4 and 6 Volt Valves to suit Australian Radio Conditions.

2 Volts 0.1 amp.
4 Volts 0.1 amp.
6 Volts 0.1 amp.
with
UX Bases.

All Voltages
All Purposes

13/6
each.



Australian Representative :

A. H. CARTER

20 Clarence Street

SYDNEY, N.S.W.

Retail from all
Radio Dealers.

The Capital behind Cossor Valves — is British.

The Labour which makes Cossor Valves — is British.

The Materials from which Cossor Valves are made — is British.

Obtainable all Radio and Electrical Dealers.

BUY

The New Cossor Point One

Listen In to the "Cossor Musical Hour" EVERY TUESDAY
from 8 p.m. till 9 p.m. from Station 2BL Sydney

8.42 p.m.—Carmichael's Dance Orchestra.
9.15 p.m.—G.P.O. chimes.
9.15 p.m.—Talk by Rev. G. E. Hale, B.A., on "Buddha."
9.20 p.m.—Song, Mr. Harry Worden.
9.24 p.m.—Violin solo, Mr. James Glenston.
9.28 p.m.—Carmichael's Dance Orchestra.
9.50 p.m.—Song, Miss Lynne Gilbert.
9.54 p.m.—Violin solo, Mr. T. Ninnis.
9.57 p.m.—Song, Miss Hazel Whitford.
10 p.m.—G.P.O. chimes.
10.1 p.m.—Sporting results.
10.15 p.m.—Carmichael's Dance Orchestra.
10.20 p.m.—Song, Mr. H. Worden.
10.24 p.m.—Violin solo, Mr. James Glenston.
10.28 p.m.—Violin solo, Mr. T. Ninnis.
10.40 p.m.—Song, Miss Hazel Whitford.
10.45 p.m.—Carmichael's Dance Orchestra.
11 p.m.—G.P.O. chimes and close down.
(Programme subject to alteration.)

GWF, PERTH.

Saturday.

12 noon.—Tune in.
12.30 p.m.—Musical programme, including platform selections by Miss Evelyn Willis, A.R.C.M.
12.45 p.m.—First local news bulletin.
Market reports.
Cables.
1 p.m.—Tune signal from Perth Observatory.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Close down.
1.35 p.m.—Tune in.
2 p.m.—A. A. A. A.
Detailed description of the races, relayed from the Ascot Racecourse, Belmont.
Close down after last race.
6.45 p.m.—Tune in.
6.50 p.m.—Uncles Perry and Rag, with the Radio Bird.
7.10 p.m.—Sports results by courtesy of "The Mirror" Newspaper Co.
7.20 p.m.—Market reports.
Cables: News by courtesy of "The West Australian" Newspaper Co.
7.45 p.m.—"The Swans and Geese," Mr. F. L. Larson-Wilcock.
8 p.m.—Tune signal from Perth Observatory.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
8.2 p.m.—Music and song.
Items by the "Joy Boys"—Meurs, Billy Edwards and Percy Hill.
Musical programme, including artists.
Dance music by Ron Mayle and his band, relayed from the Crescendo Dance Hall.
Operatic music by the Lyric Theatre orchestra, relayed from the Lyric Theatre, Melville.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within range announcements.
Weather report and forecast.
10.30 p.m.—Close down.

Sunday, June 5
2FC, SYDNEY.

10.35 a.m.—Programme Announcements.
11 a.m.—**BROADCAST FROM ST. STEPHEN'S CHURCH, PHILLIP STREET: THE MORNING SERVICE.**
Preacher, Rev. Hugh Paton.
12.15 p.m.—From the Studio: News Session.
12.30 p.m.—Close down.

AFTERNOON SESSION.

2.40 p.m.—Programme Announcements.
2.45 p.m.—Broadcast from the Petersham Congregational Church: An Organ and Vocal Recital arranged by Mr. Christian Hellermann.

3.30 p.m.—Broadcast from the Lyceum Hall; Items from the Pleasant Sunday Afternoon Service arranged by the Central Methodist Mission. The Newcastle Naval Band will play Selections.
3.50 p.m.—The Right Hon. Mr. Hughes will deliver an Address.
4.30 p.m.—From the Studio: Captain Fred Aarons will talk on "World of 2000 Years Ago."
4.50 p.m.—Close down.

EVENING SESSION.

6 p.m.—"Big Ben" and announcements.
6.5 p.m.—From the Studio:
Mr. John Benjamin, tenor:
(a) "Le Serenissima" (Tosti).
(b) "O Western Wind" (Brube).

6.13 p.m.—Mr. Clyde Thorpe, violin solo:
(a) "Wiegenlied" (Monk).
(b) "Paraphrase on Minuet" (Kreisler).

6.22 p.m.—Mr. S. E. Bowden will talk on "England's Greatest Castles".

6.40 p.m.—Miss Millicent Angles, soprano, with Mr. Ernest Truman at the piano:
(a) "Annil in a Lady" (Phillips).
(b) "Song my Mother Taught me" (Dover).

6.48 p.m.—Mr. Clyde Thorpe, violin solo:
"Serenade in Idigane" (Vivaldi).

6.52 p.m.—Mr. John Benjamin, tenor:
(a) "Piano Moon" (Legan).
(b) "All for You" (Martin).

7 p.m.—"Big Ben." Mr. Clyde Thorpe, violin solo:
"Adagietto" from "T' Adeliesen" (Gesard).

7.3 p.m.—Miss Millicent Angles, soprano:
(a) "Early Violets" (Sherrington).
(b) "The Dance on the Lawn" (Phillips).

7.10 p.m.—Announcements.

7.12 p.m.—Broadcast from St. James' Church of Organ Solos.

7.15 p.m.—Evening Service from St. Stephen's Church, King Street:
Preacher, Rev. McMillan.
8.30 p.m.—Interval.

8.32 p.m.—Broadcast from the Manly Olympic Theatre: The Sunday Evening Band Concert by the Manly Municipal Band; conductor: Mr. J. Pheleoung.

8.30 p.m.—From the Studio:
Margaret James, soprano:
"Ave Maria" (Gounod) (by special request).
9.35 p.m.—Mr. Lionel Lawton, violin solo:
"Sonata in C Minor, 1st Movt." (Grieg).

9.44 p.m.—Miss Margaret James, soprano:
(a) "An Old World Serenade" (Reimann).
(b) "Nina" (Pergolesi).

9.50 p.m.—Mr. Lionel Lawton, violin solo:
(a) "From the 'Candide'" (Gazdiner).
(b) "Prinzessin" (Schumann).
(c) "Dancing Doll" (Purcell).

9.55 p.m.—Miss Margaret James, soprano:
"Song of Hope and Love" (Barnard),
(with violin and organ).

10.2 p.m.—Mr. Lionel Lawton, violin solo:
(a) "Caprice Viennois" (Kreisler).
(b) "Tambour Chinou" (Kreisler).

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

NOTE: Items from the Olympic Theatre, Manly, by the Manly Municipal Band will be as follows:
(a) Fantasia, "Happy Life" (Le Thiere).
(b) Clarinet solo, "Caprice" (Mayseay).
(Soloist, Bandsman A. Bennett) (by request).
Selection, "Tales of Hoffmann" (Offenbach).
(d) Valse, "Blau Danube" (Strauss).
(e) Selection, "Sally" (Kern).

2BL, SYDNEY

Sunday

10.45 a.m.—Special news service.
11 a.m.—Service broadcast from the Methodist Church, Wollongong.
3.45 p.m.—Organ recital from St. Michael's Church of England, Wollongong, by Dr. C. A. Jarmian, adjudicator to the Eisteddfod.
4.30 p.m.—Stile Class conducted by Mr. W. Cairo Bradier.

6.15 p.m.—Close down.

6.15 p.m.—Children's session conducted by Uncle George.
7 p.m.—Service broadcast from St. Michael's Church of England, Wollongong.
8.30 p.m.—Sacred and classical concert broadcast from Crown Theatre, Wollongong, by Wollongong Town Band. Massed mixed Chorus, Massed male Choir, winners of the soprano and baritone solos, and the Juvenile Choir winners.

2GB, SYDNEY

Sunday.

10.20 a.m.—Music from St. Alban's Liberal Catholic Church, Redfern.
10.30 a.m.—Morning Service from St. Alban's: Service.

12 noon.—Close down.

8.45 p.m.—Music from Studio.

7 p.m.—Lecture from Aday Hall by Professor Ernest Wood:
"Madza and the South".

8 p.m.—Duets for Two Violins with Piano Accompaniment: MONICA BORDER, HERE VAN DER VENE, ADA BROOK.

8.15 p.m.—Violin Solo: MONICA BORDER, ADA BROOK.

8.30 p.m.—Violin Solo: MONICA BORDER.

8.30 p.m.—Duets for Two Violins with Piano Accompaniment: MONICA BORDER, HERE VANE DERE VENE, ADA BROOK.

8.40 p.m.—Talk.

9 p.m.—Close down.

3LO, MELBOURNE

Sunday.

MORNING SESSION.

10.30 a.m.—Rite from St. Paul's Cathedral.
10.45 a.m.—Express Train information.
11 a.m.—SERVICE FROM SCOTS CHURCH.
Preacher, Rev. Dr. Wm. Borland.
Organist, Mr. Manley Greer.
Paraphrase 68, v.v. 1, 2, 5, 6: "Where high the Heavenly Temple Stands." Time 14.
Prayer: Psalm 46: "Great is the Lord."
Chants.
Old Testament Lesson: 1. Kings, 18/21-39.
Hymn 133: "Our Blest Redeemer."
Prayer of Intercession.
New Testament Lesson.
Antiphon: "Come O Thou Traveller unknown."
—Terminus, Noble.
Prayer: "Lord, we thank Thee" (The Congregation standing, with unite).
SERMON: "The God that answers by fire." Prayer.
Intimations.
Offerings.
Offerory.
Hymn 140: "Spirit of God, that movest old and benediction.
12.15 p.m.—Close down.

AFTERNOON SESSION.

2.15 p.m.—COBURG CITY BAND, T. B. Davidsson, Conductor:
March: "On Many Shores" (Allans).
Ballet Music from "Copelia" (Hawkes).
Air Varie, "Eventide" (Smith).
Selection, "Good Queen Bess" (Boosey).
March: "Bad Gauleiter" (W. Bond).

3 p.m.—PLEASANT SUNDAY AFTERNOON.
Chairman, Rev. J. H. Cain.
Conductor, Mr. G. M. Williams.
WESLEY SUNDAY SCHOOL ANNIVERSARY:
National Anthem.
Hymn: "Our Anniversary Day."
Prayer, Rev. C. Irving Benson.
Hymn, "Praise to the Lord."
Solo, Mr. Ben Moy Ling: "Consolation."
Scripture Reading: Rev. J. H. Cain.
Kindergarten Solo, Miss Phyllis Kennedy (aged 5 years):
"Listen to the Voices of Jesus."
Hymn, "Marching on to Battle."

MICK SIMMONS

Everything Radio—from the smallest component part to the Superlative MAGNAVOX Receivers



(Philips Battery Charger No. 527A (Closed))

Noiseless, Efficient and
Fool-Proof

PHILIPS' A Battery Charger

Charging Rate, 3.5 amperes at
full wave rectification. Do
away with carrying heavy
batteries that continually
must be charged.

Price £5/5/-
CASH OR TERMS

Highest Grade Component Parts

Transformers

Forms	16/-
R.C.A.	12/6
Forms Choke Capacity Units, 24/- each.	

Rheostats and Variable Grid Leaks

Cutler Hammer Rheostats, Potentiometers and Variable Grid Leaks	2/6 each
Filko Stats and Leaks, 5/- each	
Variable Grid Leak and Con- densers	4/6 each

Condensers

U.S.I., S.L.F. Low Loss Con- densers, .00035	12/6
S.I.B. Condensers, .00035, 12/6	

Sockets

Advance Porcelain U.K. Socket,	2/6 each.
Pilot Shock Proof Socket, 3/3	each.

Bakelite Tubing	3in. Diameter, per lineal Inch,
	4d.

Bakelite Panel	1-8in. Bakelite, per square inch,
	4d.

Porcelain Lightning Arrester,	2/6.
-------------------------------	------

Value in Valves	O.K. 201A Type Valves, 5/9
	each.

Magnavox Valves	201A Type Valve, 10/6 each
	171 Type Power Valve, 25/- each

Tuners

Grodan 3 Circuit Tuner, 12/6	
Grodan Double Rotor 3 Circuit Tuner	16/6

Wire

Flexible Hook Up Wire, all colors, per coil of 25ft., 2/10	
---	--

Genuine Neutron Crystals

The Crystal with Valve Power,	1/6 each.
-------------------------------	-----------

Radio Kits

Grodan and Radinek Browning Drake Kits	£2/2/- each
Grodan Neutrodyn Kits, 37/6	each.

Mick Simmons Ltd.

"The World's Greatest Sports Store"

Headquarters: HAYMARKET, SYDNEY

And at BRISBANE.

ANNOUNCEMENTS.

BEST, "Take up the Cross", Miss Phillips and Margaret Thompson.
Offering.
Hymn, "Scatter Seeds of Kindness."
ADDRESS: REV. J. B. JAMES, M.A., B.D.
Beneficent.
Patriotic Hymn.
4.30 p.m.—Close down.

EVENING SESSION.

8.35 p.m.—CHILDREN'S HOUR. Hymns by "THE PIED PIPERS."
8.45 p.m.—Answers to Letters and Birthday Greetings.
9 p.m.—MUSICAL PROGRAMME by "THE PIED PIPERS."
6.35 p.m.—"HILLY BUNNY": "The Life of Gordon."
6.45 p.m.—Bells from St. Paul's Cathedral.

NIGHT SESSION.

7 p.m.—SERVICE FROM WESLEY CHURCH, Conducted by REV. C. IRVING HENSON.
SUNDAY SCHOOL ANNIVERSARY.
Hymn, "Soft Cometh Evening."
Invocation.
Hymn, "Marchion on to Battle."
Prayer.
Hymn, "Our Anniversary Day."
Song, Mr. Ben Moy Ling: "Ninety and Nine."
Scripture Reading.
Hymn, "Lord and King."
Announcements.
Hymn, "He Leadeth Me."
Offering.

Hymn, "We're Marching to the Promised Land."
SERMON: REV. C. IRVING BENSON.
Hymn, "Jesus, Only Son."
Benediction.
Hymn, "We Praise Thee!"
FROM THE STUDIO—

8.30 p.m.—CONCERT PERFORMANCE OF MASCAGNI'S "CAVALIERA RUSTICANA".

(With Full Chorus and Orchestra.)

Urgent Appeal and Condolence of WILLIAM JAMES.

Leader of Orchestra: BEATRICA JORGENSEN
Special Member of MELBOURNE CHORAL UNION (sixty voices). Conductor: WILLIAM JAMES.

Characters:
Santus (soprano), a young peasant girl.
Grazio (baritone), GATFO ARENAV
Torrida (Tenor), a young peasant.
Lucia (Contralto), His Mother.
GERTRUDE HUTTON.
Alfo (Baritone), a carter.
J. ALEXANDER BROWNE
Alfo (Mezzo-soprano), his wife.

Gloria of peasants—Children, etc.

INTROIT: TON—THE ORCHESTRA.

Mellana The Jolly Life Boys
Opening Chorus Sweetly the birds
Berna Santus and Lucia
Alfo's Song Gaily my horses
Chorus O the Jolly Life Boys
Scene and Prayer, Lucia, Alfo and Chorus
Grand Chor with Solo O Rejoice
Romance du Rêve Santus and Lucia
Scene O Gentle Flower of Gold
Duet Santus and Torrida
Duet Santus and Alfo

INTERMEZZO—THE ORCHESTRA.
Chorus New Homeland
Scene Love and Turidu
Drinking Song Turidu
Duet See the Merry Wine
Pianissimo: Santus, Lucia, Torrida, Alfo and Chorus.
8.50 p.m.—British Official Wireless News.
Meteorological Information.
8.55 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Sunday, MORNING SESSION.
ST. JOHN'S CATHEDRAL.
The complete morning service will be relayed from St. John's Anglican Cathedral.
11 a.m.—Church Service.
2.30 p.m.—Close down.

AFTERNOON SESSION.
BAND CONCERT.

The concert provided by the Brisbane City Band will be relayed from the Botanic Gardens.

4.30 p.m.—Band concert.

4.30 p.m.—Close down.

NIGHT SESSION.

ST. STEPHEN'S CATHEDRAL.
The complete evening service will be relayed from St. Stephen's Roman Catholic Church, 7.30 p.m.—Church service.
8.30 p.m.—Conclusion.

BAND CONCERT.

At the conclusion of the church service the band concert provided by the Brisbane Municipal Concert Band will be relayed from Wickham Park.
8.30 p.m.—Band concert.
8.30 p.m.—Close down.

5CL, ADELAIDE.

Sunday.

MORNING SESSION.

11 a.m.—G.P.O. chimes.
11 a.m.—Relay from the Pirie Street Methodist Church.
12.30 p.m.—Close down.

EVENING SESSION.

6.30 p.m.—G.P.O. chimes.
6.30 p.m.—Sunday stories for the children.
7 p.m.—Broadcasts from Parkdale Baptist Church.
8.30 p.m.—Selection, Venetian Trio.
8.35 p.m.—Mexico solo, Miss Elsie Woolley.
8.40 p.m.—Selection, Venetian Trio.
8.44 p.m.—Recitation, Mr. George White.
8.48 p.m.—Radio duel, Messrs. Joe Williams and G. Smith.
9.00 p.m.—Song, Miss Elsie Woolley.
9.05 p.m.—Selection, Venetian Trio.
10 p.m.—G.P.O. chimes and close down.

6WF, PERTH.

Sunday.

20.45 p.m.—Tune in.
21 a.m.—Morning service relayed from St. George's Cathedral, Cathedral Avenue, Perth.
10.30 p.m.—Tune in.
3.10 p.m.—Lient.-Col. Le Souef will speak on "The Acclimatisation of Birds and Animals."
3.30 p.m.—R.S.L. Band and Vocal Concert relayed from the Zoological Gardens, South Perth. Conductor, Mr. J. R. Geary.
5 p.m.—Close down.
5 p.m.—Children's bedtime stories.
7.30 p.m.—Evening service relayed from Museum-street Baptist Church, Perth.
8.15 p.m.—From the Studio:
Musical programme.
9.45 p.m.—Talk: "Deliverance for the Oppressed," by Mr. R. Lassenby.

Monday, June 6

2FC, SYDNEY.

MORNING AND MIDDAY SESSION.
11 a.m.—"Big Ben" and programme announcements.

11.5 a.m.—Official weather forecasts, rainfall, temperatures, astronomical information, shipping intelligence, mail service.

11.30 a.m.—Market Reports.

11.20 a.m.—Summary of "Sydney Morning Herald" news services.

11.35 a.m.—Tables.

11.40 a.m.—Close down.

12.30 p.m.—"Big Ben" and programme.

12.35 p.m.—Burke Wireless News.

The first day's racing at Randwick at the A.G.C. meeting will be described in the running. Full sporting results, rounds golf, etc.

Broadcast from the Cricket Ground: A description of the match, by N.S.W. Div. secretary and A.W. W.

During the intervals of sporting events will be heard from The Weatherwise, Care and Trust the Studio; Mr. Howard Leighton, novelty pianist.

4.30 p.m.—Complete results of the afternoon's Sporting Events.

5 p.m.—"Big Ben" Close down.

EARLY EVENING SESSION.

6.15 p.m.—The Chimes of 2FC.
6.30 p.m.—The "Hello Man" takes to the child roof.

6.34 p.m.—A Social Story.

6.40 p.m.—Dinner music.

7 p.m.—"Big Ben." Late Sporting News.

7.10 p.m.—Market Reports.

7.20 p.m.—Weather and shipping intelligence.

7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.45 p.m.—The Chimes of 2FC and programme items.

7.52 p.m.—Mr. A. S. Le Souef will talk of "Under the Roof of the Jungle."

8 p.m.—"Big Ben." BROADCAST FROM THE HAYMARKET THEATRE, SYDNEY. Orchestra under the baton of Mr. Stanley Porter.

8.15 p.m.—From the Studio:
Mr. Powell Phillips, tenor.

8.34 p.m.—Miss Jessie Elliott, comedienne:
(a) "Stockings on the Line,"
(b) "Madeline the Railbird" (Ellifield).

8.39 p.m.—Mr. Brunton Gibb and Miss Elsie Woolley: "Madeline and the Railbird";
(a) "Rock of Beyond" (Hayes);
(b) "In Other Words" (Ayres);
(c) "Luca and Bill" (Ayrate).

8.40 p.m.—Broadcast from the Haymarket Theatre, Sydney: Orchestral Items.

8.40 p.m.—From the Studio:
Mrs. Elsie Peerless, soprano.

8.46 p.m.—Eden and Jack Landry, entertainers.

8.54 p.m.—Mr. Powell Phillips, tenor.

9 p.m.—Broadcast from the Haymarket Theatre, Sydney: Orchestral Items.

9.10 p.m.—"Vocal Act."

9.25 p.m.—From the Studio:
Mr. Brunton Gibb and Miss Elsie Woolley, comedy sketch:

(a) "The New Food" (Leacock);
(b) "The Young's Recital" (Squires);
(c) "Dad's Bath" (Dryden).

9.34 p.m.—Pauline Lester de Killill, comedienne:
In "The Way She Managed Things" in Kyrryl (Killill).

9.42 p.m.—Broadcasts from the Wentworth Hotel, Sydney: The New Wentworth Symphonic Dance Orchestra, under the baton of Mr. Frederick Leighton.

9.50 p.m.—Eden and Jack Landry, entertainers.

10 p.m.—Broadcast from the Haymarket Theatre, Sydney: Orchestral Items.

10.10 p.m.—From the Studio:
Miss Elsie Peerless, soprano.

10.34 p.m.—Mr. Brunton Gibb and Miss Elsie Woolley, comedy sketch:

(a) "In the Park" (Perkes);
(b) "Haymarket Operatic Orchestra".

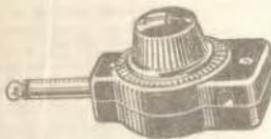
10.45 p.m.—From the Studio:
Zoe and Jack Landry, entertainers.

10.50 p.m.—Broadcast from the Wentworth Hotel, Sydney: Dance Music until 11 o'clock.

11 p.m.—"Big Ben." Close down.

Tone Quality — Volume Control

Bring Your Set Up-to-date



No. 1410. RESISTANCE.

2 stage Amplifier £2/5/- No. 1409 RESISTANCE. No. 1450 RESISTANCE.

3 stage Amplifier £3/3/- Amplifier Kit £2/14/-



Do away with all out-of-date and inefficient methods of oscillation and volume control. Use CENTRALAB RADIOMS. Incorporated in any radio circuit, they give improved efficiency and ease of control. Can be varied noiselessly from zero to maximum range, and are absolutely noiseless in operation.



	S	N	D
No. 2 M. Radioms	0	14	6
No. 50 M. Radioms	0	14	6
No. 100 M. Radioms	0	14	6
No. 500 Modulators	0	14	0
No. 105 Variable Grid Leaks, without condensers	0	0	0
No. 107 Variable Grid Leaks, with No. 2035 condensers	0	10	0
No. 208 6 ohm Rheostat	0	0	0
No. 230 6 ohm Rheostat	0	0	0
No. 110 200 ohm Potentiometer	0	12	0
No. 111 400 ohm Potentiometer	0	14	6
Centralab Push Pull Battery Switch	0	3	0
Centralab Modulator Plug	0	18	0

IF YOUR DEALER DOES NOT YET STOCK THESE PARTS, WRITE TO US DIRECT.

SOLE DISTRIBUTORS:

United Distributors Limited

72 Clarence Street, Sydney

343 Queen St. 27 Chesser St. 26 Queen St. Cr. Jervois Quay & Harris St. 66 Charles St.
BRISBANE ADELAIDE PERTH WELLINGTON, N.Z. LAUNCESTON, TAS.

664 Bourke Street, MELBOURNE

2BL, SYDNEY

Monday.

- 11 a.m.—G.P.O. clock and chimes.
 11.15 a.m.—Musical programme from Studio.
 11.19 a.m.—News from the "Sun."
 11.20 a.m.—Musical programme from the Studio.
 11.30 a.m.—News from the "Sun."
 11.40 a.m.—Musical programmes from the Studio.
 11.50 a.m.—News from the "Sun."
 12 noon.—G.P.O. clock and chimes.
 12 p.m.—Special ocean forecast and weather report.
 12.30 p.m.—Musical programme from the Studio.
 12.45 p.m.—News from the "Sun."
 12.50 a.m.—Musical programmes from the Studio.
 12.50 p.m.—G.P.O. clock and chimes.
 12.51 p.m.—News from the "Sun."
 12.54 p.m.—Musical programme from the Studio.
 12.55 p.m.—News from the "Sun."
 1 p.m.—G.P.O. clock and chimes.
 1.15 p.m.—Musical programme from the Studio.
 1.15 p.m.—Talk on sporting and athletic fixtures for the day, lacrosse, hockey, tennis, football, sailing, boating. During the afternoon sporting information will be broadcast by courtesy of the "Sun" Newspapers, interspersed with musical programme from the Studio.
 4.30 p.m.—Resume of night programme.
 6 p.m.—G.P.O. clock and chimes.
 6.1 p.m.—Racing Resumé.
 6.5 p.m.—Close down.

EARLY EVENING SESSION.

- 6.45 p.m.—G.P.O. clock and chimes.
 6.45 p.m.—Dandy Longleys and the kiddies.
 6.49 p.m.—Musical programme from the Studio.
 7.15 p.m.—Results of all sporting information, including racing, bowls, tennis, swimming, athletics, by courtesy of the "Sun".
 Country news from the "Sun".
 7.30 p.m.—Talk on "Gipsy Week."
 7.45 p.m.—Talk on "The Care of the Nose," by Mrs. Patterson.

EVENING SESSION.

- 8 p.m.—G.P.O. clock and chimes.
 Broadcasters' Topical Chorus.
 8.30 p.m.—Walter George's Smart Set Show.
 8.35 p.m.—Broadcasters' sports expert will talk on general sports.
 9.15 p.m.—Mr. Roger Jones, baritone.
 9.45 p.m.—A comedy sketch, by the Players' Comedy Club, under the direction of Mr. J. N. Shield.
 9.45 p.m.—Miss Bessie Tarrant, soprano.
 9.52 p.m.—Mr. Sydney Hollister, comedian.
 10 p.m.—G.P.O. clock and chimes.
 Resumé of following day's programme.
 Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
 10.6 p.m.—Sid and Molly Owen, and Jack Rutherford, in a medley of jazz.
 10.20 p.m.—Miss May Narrarow, elocutionist.
 10.30 p.m.—Mr. Roger Jones.
 10.41 p.m.—Mr. Sydney Hollister.
 10.48 p.m.—Miss May Narrarow.
 10.55 p.m.—Miss Bessie Tarrant.
 11 p.m.—G.P.O. clock and chimes.
 National Anthem.

2GB, SYDNEY

Monday.

MORNING SESSION.

- 9 a.m.—Music.
 9.15 a.m.—Chezito Talk.
 9.15 a.m.—Music.
 9.25 a.m.—Psychological Class.
 9.40 a.m.—Music.
 9.45 a.m.—Health and Diet.
 10 a.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Music.
 3.37 p.m.—Poems by Mr. Walter Hunt.
 3.52 p.m.—Music.
 4 p.m.—Talk by Mrs. Marie McLennan.
 4.22 p.m.—Music.
 4.39 p.m.—Close down.

EVENING SESSION.

- 5.30 p.m.—Children's Session.
 7 p.m.—Music.
 7.15 p.m.—Talk.
 7.20 p.m.—Talk.
 7.30 p.m.—Music.
 7.35 p.m.—Music.
 7.45 p.m.—Duet for Two Violins with Piano Accompaniment: DAN SCULLY, MONICA HORDER, ADA BROOK.
 8.55 p.m.—Address by Professor Ernest Wood.
 8.20 p.m.—Songs by Madam Wiedele:
 1. "Dancing Love."
 2. "Niger Lullaby."
 With Luis Accompaniment.
 8.25 p.m.—"Cells Solos" by Murielle Lang:
 1. "Cells Solo" (Lang).
 8.33 p.m.—Instrumental Quartette: DAN SCULLY, MONICA HORDER, MURIELLE LANG, ADA BROOK.
 8.35 p.m.—Announcements.
 9 p.m.—Topical Talk.
 9.15 p.m.—Musical Monologues by J. K. Powell:
 1.
 9.30 p.m.—Duet for Two Violins with Piano Accompaniment: DAN SCULLY, MONICA HORDER, ADA BROOK.
 9.35 p.m.—Songs by Madam Wiedele:
 1. "Angels Guard Thee" (Godard).
 9.45 p.m.—Duet for Two Violins with Piano Accompaniment: DAN SCULLY, MONICA HORDER, ADA BROOK.
 9.55 p.m.—Chezito Talk.
 10 p.m.—Close down.

3LO, MELBOURNE.

Monday

MIDDAY SESSION.

"IN HOLIDAY MOOD."

- 11 p.m.—Time Signal. British Official News from Rugby. Reuter's and the Australian Press Association Cables. "Argus" and "Herald" news service.
 12.20 p.m.—O'MARA AND BURKE:
 ANNA BURKE: "The Molly Malone" (McBath); CHAS. O'MARA will entertain you for a few minutes.
 CHAS. O'MARA, Haritone: "The Rocky Road to Dublin" (Brayton).
 12.30 p.m.—STUDIO ORCHESTRA:
 "Magic Flute" (Mount).
 12.45 p.m.—RICHARD CHUGG, Flute: "Lambland" (in Barce).
 12.50 p.m.—GIGZ (J. F. French).
 12.55 p.m.—MAXWELL CAREW, Comedian: "Joybells are Ringing." "Songs my Mother Sang."
 1 p.m.—Time Signal. Description of Marlborough Hurdle, FLEMINGTON RACES, by "Musket" of the "Sporting Globe."
 1.10 p.m.—JAMES RILEY, Tenor:
 "Come into the Garden, Maude" (Balfe).
 1.17 p.m.—BERTHA JORGENSEN, Violin:
 "Spanish Dance" (Barrettas).
 1.22 p.m.—Meteorological Information. Shipping intelligence. Weather Forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean Forecast. River Forecast.
 1.23 p.m.—"THE FUTURISTS" present their Radio Revue, "QUICK LUNCH." The Company will join you at lunch.
 CYRIL NORTHCOTE will entertain you. IRA VANDA and GUS DAWSON now sing a duet.
 DESMOND will endeavour to explain to IRA VANDA how to fill in her Income Tax Form.
 THE COMPANY in a Finale.

- 1.40 p.m.—Description of Redbury Trial Handicap, by "Musket" of the "Sporting Globe."
 1.45 p.m.—JAMES RILEY, Tenor:
 "Thank God for a Garden."
 "Mary of Argyle."
 1.52 p.m.—STUDIO ORCHESTRA:
 Selection. "Wild Flower."

- 2 p.m.—Close down.
 2.35 p.m.—Description of Lancaster Handicap, FLEMINGTON RACES, by "Musket" of the "Sporting Globe."

- 2.45 p.m.—LEAGUE FOOTBALL—RICHMOND v. CARLTON, description by Mr. Rod McGregor, transmitted from Richmond.

AFTERNOON SESSION.

- With the Sports:
 3 p.m.—STUDIO ORCHESTRA:
 Selection. "Merry Widow" (Lehar).
 3.57 p.m.—LEWIS, Hebrew Monologue: "My Son the Zookeeper."
 3.15 p.m.—Description of Prince of Wales Stakes, FLEMINGTON RACES, by "Musket" of the "Sporting Globe."
 3.20 p.m.—LEAGUE FOOTBALL—RICHMOND v. CARLTON, description by Mr. Rod McGregor, transmitted from Richmond. Quarter Time.

- 3.30 p.m.—WOLFIE:
 "Musical Hall Oddities."
 3.45 p.m.—STUDIO ORCHESTRA:
 "Sounds from England" (Langsy).
 3.46 p.m.—MRS. DOROTHY SILK:
 "Homemurts."
 3.50 p.m.—Description of Birthday Handicap, FLEMINGTON RACES, by "Musket" of the "Sporting Globe."
 3.55 p.m.—TANIA THURNAN, Cellist:
 "Secondo Estreno" (Glareau).
 4 p.m.—LEAGUE FOOTBALL—RICHMOND v. CARLTON, Half-Time, description by Mr. Rod McGregor, transmitted from Richmond.

- 4.10 p.m.—STUDIO ORCHESTRA:
 "Two Novelties" (Anghel).
 4.15 p.m.—EILEEN STARR, Soprano:
 "I'm Not Like a Little Lamb" (Schumann).
 4 p.m.—WILLIAM SCHUBERT (Schubert).
 4.22 p.m.—STUDIO ORCHESTRA:
 "Reve Anglaise" (Robenstein).

- 4.30 p.m.—Description of CORNWALL HANDCAP, FLEMINGTON RACES, by "Musket" of the "Sporting Globe."
 4.35 p.m.—LEAGUE FOOTBALL—RICHMOND v. CARLTON, Three-quarters-Time, description by Mr. Rod McGregor, transmitted from Richmond.

- 4.45 p.m.—"Herald" news service.
 Sporting results.
 5 p.m.—LEAGUE FOOTBALL—RICHMOND v. CARLTON, Final Scores, description by Mr. Rod McGregor, transmitted from Richmond.
 6.15 p.m.—Close down.

EVENING SESSION.

- 6.30 p.m.—CHILDREN'S HOUR. Answers to Letters and Birthday Greetings.
 6.35 p.m.—FREDA NORTHCOTE, Soprano: Songs for Children.
 6.45 p.m.—"LITTLE MISS KOOKABURRA" has a dear little story for her "Kookaburras" about "The Black Rabbit."
 6.57 p.m.—FREDA NORTHCOTE, Soprano: Songs will sing two more little songs.
 6.54 p.m.—"LITTLE MISS KOOKABURRA": The Next Instalment of "The Cruise of the Flying Jane."
 6.59 p.m.—Official Report of Newmarket Stock Sales. Numbers of Sheep and Cattle drawn for week's sales.
 6.55 p.m.—River reports.
 6.58 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Newmarket Sheep sales. Poultry, Grain, Hay, Calf, Straw, Jute, Dairy Produce, Potatoes and Onions.
 7.56 p.m.—Fruit Market reports by the Victorian Wholesalers' Federation Association, compiled by the "Fruit World," exclusive to 3LO.

Radiokes Solodynies

Have At Once Gained Public Favour

DANGER!

We desire to warn you against the unsuccessful use of inferior imitations of Radiokes Solodyne Shielded Kits.

Ours are the ONLY Genuine and Guaranteed Radiokes Solodyne Kits—Read the tag attached to each unit.

The demand for Radiokes Solodyne Kits has been phenomenal, due entirely to the fact that the Radio public has learned to place implicit trust in Radiokes.



Three weeks ago the name "RADIOKES" SOLODYNE was practically unknown—to-day, everyone is hearing, talking and building "RADIOKES" SOLODYNIES, and those lucky fans who have built this wonderful receiver are absolutely astounded at the marvellous results obtained. As a result—"RADIOKES" big factory is buzzing

with activity night and day, in an effort to supply this enormous demand; so if you are unable to obtain your Genuine "RADIOKES" KIT immediately, we ask you to please be patient for a while, then you, too, will realise what real Radio means. Remember, that success is only possible with Genuine "RADIOKES."

GENUINE RADIOKES SOLODYNE COIL KITS, comprising three units 75/- per Kit

RADIOKES R.F. CHOKE is also necessary for this circuit 8/6 each

From Best Radio Dealers or direct.

Radiokes takes this opportunity to thank the Radio Public for their loyal support in the past, and promises a continuance of even better service in future.

Metropolitan Electric Co. Ltd., 27 King Street, Sydney

NIGHT SESSION.

7.15 p.m.—Under the auspices of the Develop Australia League, Mr. J. J. MCKENNA: "Australia First!"

7.20 p.m.—MR. E. C. H. TAYLOR: "School Life and School Sport."

7.45 p.m.—The Captain of the Geelong-Melbourne Football Team:

"To-day's" attack on Relay Record."

LONG LIVE THE KING.

King George V., Born June 3, 1865.

"We are his,

To serve him nobly in the common cause,
True to the Death, but not to be his slaves."

(Cowper)

8 p.m.—MALVERN TRAMWAYS BAND: "God Save the King."

March, "Patriotic" (Rimmer).

8.10 p.m.—HARMONIST MALE QUARTET: "Here's Life and Health to England's King," "The Trumpeter."

8.17 p.m.—MALVERN TRAMWAYS BAND—Despatched from:

"A Guy with the Bushrangers" (Rimmer).

8.27 p.m.—JAMES FRASER, Bassoon: "Gentlemen, The King!" (Gleeson).

8.30 p.m.—COUNCILLOR FELIX LLOYD will introduce ALDERMAN SIR STEPHEN MORELL, Kt., LORD MAYOR OF MELBOURNE, who will officially open SLO, MELBOURNE'S NEW STUDIO.

9 p.m.—HUMOURISTS SERENADES.

9.1 p.m.—MARION LIGHTFOOT, English Concerting:

"Lemmenhövel's Serenade."

9.15 p.m.—THE FUTURISTS—present their Radio Revue!

BITS AND PIECES.

THE COMPANY sing an Opening Chorus.

DINAH DESMOND AND HERL NORTH-

COTE in their new worth to you.

IRA VANDA now sings to you.

A SKETCHETTE by CESTL Northcote, Bus.

Tawson and Ira Vanda.

DISMAL DESMOND is more miserable than ever.

A Finale by the Company.

9.41 p.m.—Announcements, Royal Veterinary Agricultural Club, Safety message.

MOTHER Nature, don't leave your car after

dark standing on the off side of the road,

as your headlights may confuse approaching drivers.

9.43 p.m.—MALVERN TRAMWAYS BAND, Selection:

"Recollections of England" (Rimmer).

9.45 p.m.—FRASER AND MASTERS, Duets:

The King's Servants.

SANDERSON AND GILLARD, Duets:

Soldiers and Comrades" (Adrian).

10.2 p.m.—Metronome information and "Argus" news service.

10.12 p.m.—MARION LIGHTFOOT, English Concerting:

"Trauerli."

"Annie Laurie."

10.19 p.m.—ROBERT GILLARD, Barit.: "From Somewhere" (Sanderson).

10.23 p.m.—MALVERN TRAMWAYS BAND, More:

"Bells of Oxley" (Hume).

Euphonium Solo:

"Land of Hope and Glory" (Elgar).

10.33 p.m.—HERBERT SANDERSON, Baritone:

"The Veteran's Song" (Adams).

10.37 p.m.—Late Sporting Results.

10.42 p.m.—HALMONIST MALE QUARTET: "Soldier's Farewell."

10.47 p.m.—MALVERN TRAMWAYS BAND: Selection, "Sons of Britain" (Rimmer).

11 p.m.—OUR GREAT THOUGHT:

"And when the last Great Secret comes,

To write against your heart,

He'll ask not if you won or lost,

But how you played the game."

(Grantland Rice).

11.1 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS:

"By the Sign of a Rose" (Fiedler).

"Sunday" (Miller).

"Hello, Little Girl" (My Dreams" (Berk).

"The Original Black Bottom" (Henderson).

sits on a Wall Home" (Barlin).

"Let's All Henry Ford" (Leville).

"Ruffenroddy" (Barry),

"The More We are Together" (Campbell).

"Mary Lou" (Lyman).

11.45 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Monday.

MIDDAY SESSION.

1.0 p.m.—Market Reports: Weather Information supplied by the Commonwealth Weather Bureau; News items supplied by "The Mercury" and "The Daily Standard".

1.20 p.m.—From Hotel Carlton: Lunch Music played by Hotel Carlton Symphony Orchestra.

1.55 p.m.—From the Observatory: Standard Time Signals.

2.0 p.m.—Close Down.

AFTERNOON SESSION.

3.30 p.m.—From Hotel Carlton: Afternoon Tea Music played by Hotel Carlton Symphony Orchestra.

4.15 p.m.—From the Studio: News Service supplied by "The Telegraph".

4.30 p.m.—Close Down.

AFTERNOON SESSION.

5.30 p.m.—From Hotel Carlton: Afternoon Tea Music played by Hotel Carlton Symphony Orchestra.

6.00 p.m.—News Service supplied by "The Daily Standard".

6.30 p.m.—The Children's Session: Stories by "The Sandman".

7.00 p.m.—Market Reports: Stock Reports, Weather Report, Other News; Announcements.

7.45 p.m.—Standard Time Signals.

7.45 p.m.—Lecturette: "The Children's Music Corner," conducted by "The Music Man."

EARLY EVENING SESSION.

8.00 p.m.—News Service supplied by "The Daily Standard".

8.30 p.m.—The Children's Session: Stories by "The Sandman".

8.45 p.m.—Market Reports: Stock Reports, Weather Report, Other News; Announcements.

9.00 p.m.—Standard Time Signals.

9.45 p.m.—Lecturette: "The Children's Music Corner," conducted by "The Music Man."

NIGHT SESSION.

10.00 p.m.—G.O.O. RECITAL.

The organ recital by the City Organist Mr. George Sampson, F.R.C.O., will be relayed from St. John's Cathedral.

10.30 p.m.—From St. John's Cathedral: Overture, "Henry the Eighth" (Handel); "Adagio Sinfonico" (Prost); Fantasy, (a) "Air in C" (Behrens); (b) "A Dance" (Sampson); (a) "Cavatina" (Borrelli); (b) "Largo" (Handel); "Romanza in G" (Beethoven); "The Storm" (Lemmens).

CROWN STOVES CONCERT.

The second portion of the programme will comprise a concert arranged and organised by the Crown Stoves and Foundry Co., and will be relayed from their works at Woolloomooloo.

9.00 p.m.—From the Crown Stoves Factory: Operatic selection, "La Forza del Destino"; —Part I. (Verdi), the Crown Orchestra; interlude, "How Crown Stoves are Made"; description of a visit to the factory; relayed by battle, "Feast of the Ringers" (Rousseau); (a) "Gloria" (the Crown Orchestra); tenor solo, "Where the River Shannon Flows"; Mr. Gerald Cashman; Mr. Dan Thomas, the entertainer; monologue, "Puzzled"; Miss Eileen McLean; Mr. Waterman and his Phonograph; soprano, "Heartstrings"; (b) "Howard"; Miss Marion O'Nigle; (c) "The Brown Tragedy Over to Me"; Mr. Gerald Cashman; saxophone solo, "Valley Errie"; (Wienhoff), Mr. C. Hansen (accompanied by the Crown Orchestra); baritone solo, selected by Mr. Waterman; fox-trot: (a) "I've Got the Girl" (Donaldson); (b) "There Ain't No Match" (Donaldson); (c) "The Crown Orchestra"; Mr. Dan Thomas, the entertainer; operatic selection, "La Forza del Destino"; Part II. (Verdi), the Crown Orchestra; an interlude by "Uncle Ben"; violin, "Daughter of Love" (Bennett); the Crown Orchestra; Dutch recitation, "The Boiling Match"; Miss Marion O'Nigle; (a) "Kimbrough"; character piece, "Facination" (Monroe-Tobani); the Crown Orchestra.

10.30 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

12.30 p.m.—"Advertiser" news service.

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.

AFTERNOON SESSION.

3 p.m.—G.P.O. chimes.

3.15 p.m.—Relay from the Maple Leaf Cafe—Orchestral items.

3.45 p.m.—From the Studio—Musical items.

4 p.m.—G.P.O. chimes.

4.15 p.m.—Relay from the Arcadia Cafe—Orchestral items.

4.35 p.m.—Station announcements.

4.45 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

5 p.m.—G.P.O. chimes.

6 p.m.—Dinner music by Covent Garden Orchestra.

6.45 p.m.—Bedtime stories.

7.30 p.m.—Market reports.

7.45 p.m.—Physical culture talk by Mr. Noel Hubble.

8 p.m.—G.P.O. chimes.

8.15 p.m.—Twenty minutes with G.O.O.'s regular entertainers, Mr. Geo. Oliver (popular songs and patter).

8.20 p.m.—"Twinkler" (Mr. F. J. Mills) will give one of his original humorous talks.

8.40 p.m.—G.O.O. Orchestra.

9 p.m.—G.P.O. chimes.

9.15 p.m.—Mr. Noel Hubble.

9.30 p.m.—Song, Miss Aileen Newlyn.

9.45 p.m.—G.O.O. Orchestra.

9.45 p.m.—Humorous recital, Mr. Steve Danks.

9.55 p.m.—G.O.O. Orchestra.

9.55 p.m.—Song, Mr. Harry Worden.

10.15 p.m.—Song, Mr. Harry Worden.

10.15 p.m.—Relay from Mr. Steve Danks.

10.35 p.m.—G.O.O. Orchestra.

10.45 p.m.—Song, Mr. Harry Worden.

10.45 p.m.—Relay from Mr. Steve Danks.

11 p.m.—G.O.O. chimes and close down.

6WF, PERTH.

Monday.

12.30 p.m.—Time in.

12.45 p.m.—First local news bulletin.

Market reports.

Cables.

1 p.m.—Time signal from Perth Observatory.

1.15 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.

1.2 p.m.—Musical programmes from the Studio, including artlets.

2 p.m.—At Ascot.

Detailed description of the races, relayed from the Ascot Racecourse, Belmont.

3.30 p.m.—Time in.

3.35 p.m.—Musical programme, including artists.

Detailed description of the races, relayed from the Ascot Racecourse, Belmont. Close down after last race.

6.45 p.m.—Time in.

6.50 p.m.—Uncles Henry and Duffy will talk to the kiddies.

7.10 p.m.—Sports results by courtesy of "The Mirror" Newspaper Co.

7.20 p.m.—Stock and Share intelligence.

Cables. News by courtesy of "The West Australian" Newspaper Co.

7.45 p.m.—Talk.

8 p.m.—Time signal from Perth Observatory.

8.15 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.

10 p.m.—Relay news items by courtesy of "The Daily News" Newspaper Co.

Ship's wireless range announcement.

Weather report and forecast.

10.30 p.m.—Close down.

5CL, ADELAIDE.

Monday.

MORNING SESSION.

12 noon—G.P.O. chimes.

12.15 p.m.—Recitals on the New Reproducing Sonora and the Autostereo Reproducer.

Volton for Volume

22/6
each.



3/-
each



Batteries

1. Practical tests have shown the Volton Batteries to be the most economical.

2. Volton Batteries are guaranteed by your local Dealer as being the true Triple Capacity 45 Volts. Your Dealer will test every Battery before you purchase.

3. Volton Batteries are fitted with spring clips at each reading—there are no terminals to lose.

Howell's Radio,
Keogh Radio,
Maling, W., and Son.
Mick Simmonds, Ltd.
Radio & Electric Company.
Radio House.
Swains, Ltd.
Slingby & Coles.
United Distributors, Ltd.
Wallace, Miss F. V.
Wilson, W. Harry.

4. Volton Batteries, due to their sturdy construction, long life, and dependability, eliminate all battery trouble.
5. Volton 45 Volt, triple capacity, standard size, as illustrated—cost you only 22/6 each—Why pay more?
6. Because the following Practical Radio Experts of Sydney stock and recommend their use—Ask them advice.

Amalgamated Wireless
(Aust.), Ltd.
Australian Wireless (Radiar)
Batter Bros., Ltd. (Brisbane)
Colville Moore Wireless Supplies.
Cullen, E. R.
David Jones, Ltd.
Economic Radio Stores,
Farmer & Co., Ltd.
Guthridge & Day Pty., Ltd.
(Melbourne).
Hamilton & Baker.

VOLTON VOLTMETERS

PRICE 12/6 EACH

Double Range Wireless Volt Meters—English Make

It is quite impossible to check the Voltage of the Accumulators on a Voltmeter having a range suitable for testing a Dry Battery, and in the ordinary course two instruments are required. We have designed the above instrument to obviate the necessity of having two instruments.

Volton Sub Panel Brackets at 3/6 per pair.

SOLE DISTRIBUTORS FOR AUSTRALASIA

Weldon Electric Supply Co. Ltd.
352 KENT STREET - - - SYDNEY

Tuesday, June 7

2FC, SYDNEY

MORNING AND MIDDAY SESSION.

11 a.m.—"Big Ben" and programme announcements.
 11.30 a.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
 11.30 a.m.—Market Reports.
 11.30 a.m.—"Sydney Morning Herald" news service.
 11.35 a.m.—Cables.
 11.40 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Furt.
 11.55 a.m.—Announcements.
 12.15 p.m.—"Big Ben." Studio Music.
 12.35 p.m.—Stock Exchange, first call.
 12.45 p.m.—Studio Music.
 12.55 p.m.—"Big Ben." Weather intelligence.
 1.00 p.m.—"Evening News" midday news service.
 Producers' Distributing Society's Report.
 1.20 p.m.—Studio Music.
 1.28 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching music for the school children.
 1.40 p.m.—Miss Irene Duncan, dramatic soprano.
 "Villanelle" (Doll Acquis).
 1.45 p.m.—Studio Music.
 1.50 p.m.—"Big Ben." Weather intelligence.
 1.55 p.m.—"Evening News" midday news service.
 Producers' Distributing Society's Report.
 1.58 p.m.—Studio Music.
 1.58 p.m.—Stock Exchange, second call.
 1.58 p.m.—"Big Ben." Weather intelligence.
 1.58 p.m.—"Evening News" midday news service.
 2.00 p.m.—"Big Ben." Studio Music.
 2.00 p.m.—"Big Ben." Weather intelligence.
 2.00 p.m.—"Evening News" midday news service.
 2.00 p.m.—"Big Ben." Studio Music.
 2.00 p.m.—"Big Ben." Weather intelligence.
 2.00 p.m.—"Evening News" midday news service.
 2.00 p.m.—"Big Ben." Studio Music.
 2.00 p.m.—"Big Ben." Weather intelligence.
 2.00 p.m.—"Evening News" midday news service.
 2.00 p.m.—"Big Ben." Studio Music.
 2.00 p.m.—"Big Ben." Weather intelligence.
 2.00 p.m.—"Evening News" midday news service.
 2.00 p.m.—"Big Ben." Studio Music.
 2.00 p.m.—"Big Ben." Weather intelligence.
 2.00 p.m.—"Evening News" midday news service.
 2.00 p.m.—"Big Ben." Studio Music.
 2.00 p.m.—"Big Ben." Weather intelligence.
 2.00 p.m.—"Evening News" midday news service.

AFTERNOON SESSION.

2.30 p.m.—Announcements.
 2.45 p.m.—A Recital of Australian Artists:
 Mr. Alfred O'Shea, tenor.
 Reginald Dandy, baritone.
 The Big Four.
 Sam Stern, comedian.
 2.50 p.m.—Marching music for the school children.
 2.50 p.m.—From Farmer's Tea Rooms:
 Miss Anne Mills, mezzo:
 "Did my Love" (D'Hardest).

2.45 p.m.—A Reading:
 2.45 p.m.—From Farmer's Tea Rooms:
 Frank Botham, baritone:
 "Last of the Redoubt".

2.45 p.m.—From the Studio:
 Miss Penelope Rutter, soprano:
 "My Bird of April Days."

2.45 p.m.—Studio Music.

2.45 p.m.—From Farmer's Tea Rooms:
 Miss Anne Mills, mezzo:
 "Softly Awake my Heart" (Saint Saens).

2.45 p.m.—From the Studio:
 Miss Penelope Rutter, soprano:
 "Darling Days" (Dickson).

2.45 p.m.—Studio Music.

2.45 p.m.—From Farmer's Tea Rooms:
 Mr. Frank Botham, baritone:
 "If I might come to You" (Sequire).

2.45 p.m.—Stock Exchange, third call.
 2.47 p.m.—Studio Music.
 2.47 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.45 p.m.—The Chimes of 2FC.
 5.50 p.m.—"The Honeymoon" talks to the children.
 6.00 p.m.—A Serial Story.
 6.40 p.m.—Dinner Music.
 7.00 p.m.—"Big Ben." Last minute Sporting Information.
 7.10 p.m.—Dobney's Market Reports (wool, wheat, stock).
 7.18 p.m.—Fruit and vegetable markets.
 7.20 p.m.—Weather and shipping intelligence.
 Stock Exchange.
 7.21 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.50 p.m.—The Chimes of 2FC.
 Mr. G. J. Lockley will talk of "Old Darling Harbour."
 8 p.m.—"Big Ben." From the Lyceum Theatre, Sydney: Orchestral Items.
 8.10 p.m.—Broadcast from the Warrington Hall: The "Orpheus" Walt, including 2FC Dance Band in popular numbers. Mr. Alfred O'Shea, tenor. Miss Daisy Richards, violinist. Mr. Charles Lawrence, entertainer. Miss Frazer Coss, light baritone. Mr. Sid Beck, comedian, and Mr. Alfred Cunningham, English baritone.
 8.10 p.m.—From Falings' Concert Salon: A Pianoforte Recital by Miss Florence Menkemeyer, distinguished Continental artiste who is making her re-appearance in Sydney after many years absence. This artiste has specially engaged by this station in addition to this evening on Thursday, 9th June, Friday, 10th June, and Saturday, 11th June. Miss Menkemeyer will play:
 (1) "La Sonnambula Fantasie" (Bellini).
 (2) "Caprice" (Moszkowski).
 (3) "Scenrade" (Schubert).
 (4) "Polish Dance" (Ashkenazi).
 (5) "Fantasie Op. 40" (Chopin).
 (6) "Fantasie" (Menkemeyer).
 8.30 p.m.—From the Studio: Announcements.
 8.35 p.m.—Broadcast from the Lyceum Theatre, Sydney: Orchestral Items.
 8.50 p.m.—Broadcast from the Warrington Hall: Mozman: the Second Part of the Organ Concert, including the above mentioned artists.
 10.45 p.m.—From the Warrington Hall, Mozman: the 2FC Dance Band will play popular items until 11 o'clock.
 11 p.m.—"Big Ben." National Anthem.
 Close down.

2.30 p.m.—News from the "Sun."
 2.39 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."
 2.41 p.m.—Musical programme from the Studio.
 3 p.m.—G.P.O. clock and chimes.
 3.15 p.m.—News from the "Sun."
 3.15 p.m.—Civil Service Stores Trio—Direction, Miss de Courcy Brauner.
 3.30 p.m.—G.P.O. clock and chimes.
 3.31 p.m.—News from the "Sun."
 3.40 p.m.—Musical programme from the Studio.
 3.50 p.m.—News from the "Sun."
 4 p.m.—G.P.O. clock and chimes.
 4.1 p.m.—Musical programme from the Studio.
 4.15 p.m.—Serial story.
 4.30 p.m.—G.P.O. clock and chimes.
 4.31 p.m.—Musical programme from the Studio.
 4.45 p.m.—News from the "Sun."
 4.50 p.m.—Racing results.
 4.52 p.m.—Producers' Distributing Society's fruit and vegetable market report.
 4.54 p.m.—Resume of night's programme.
 4.56 p.m.—Announcements.
 4.58 p.m.—Special ocean forecast.
 5 p.m.—G.P.O. clock and chimes.
 Close down.

5.45 p.m.—G.P.O. clock and chimes.
 5.45 p.m.—Uncle George and the Kiddies.
 5 p.m.—The pupils of Miss Monica Bally will entertain the kiddies.
 5.40 p.m.—Musical programme from the Studio.

6.45 p.m.—G.P.O. clock and chimes.
 6.45 p.m.—Weather report and forecast, by courtesy of Government Meteorological.
 Producers' Distributing Society's fruit and vegetable market report.
 Stock Exchange reports.
 Grain and fodder report ("Sun").
 Dairy product report ("Sun").
 7.15 p.m.—Country news from the "Sun."
 7.30 p.m.—Talk on "The Motor Car," by Mr. Martin.
 8 p.m.—G.P.O. clock and chimes.
 Broadcasters' Topical Chorus.
 8.30 p.m.—Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.
 8.15 p.m.—Miss Phyllis Atkinson, mezzo soprano.
 8.20 p.m.—Mr. Leslie Herford, baritone.
 8.27 p.m.—Miss Heather Kinnaird, contralto.
 8.34 p.m.—Mr. Frank Kyani, comedian.
 8.41 p.m.—Miss Dulcie Blair, violin solo.
 8.48 p.m.—Professor Randal Woodhouse, tenor.
 8.55 p.m.—Resume of following day's programme.
 Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
 9 p.m.—G.P.O. clock and chimes.
 9.15 p.m.—Broadcasters' Light Orchestra.
 9.11 p.m.—Miss Phyllis Atkinson.
 9.15 p.m.—Madame Bette Vincent will deliver a solo on "Mozart," with illustrations at the piano.
 9.38 p.m.—Mr. Leslie Herford.
 9.45 p.m.—Broadcasters' Light Orchestra.
 9.55 p.m.—Miss Heather Kinnaird.
 10.2 p.m.—Mr. Frank Ryan.
 10.8 p.m.—Professor Randal Woodhouse.
 10.16 p.m.—The Ambassadors' Dance Band broadcast from the ballroom of the Ambassadors. During intervals between dances, news reports, by courtesy of the "Sun," will be broadcast.
 11 p.m.—G.P.O. clock and chimes.
 National Anthem.

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

3LO, MELBOURNE.

Tuesday.

MIDDAY SESSION.

- 12 noon.—TIME SIGNAL. British Official Wireless Times from Sydney, Reuters and The Australian Press Association. Cables. "Argus" and "Herald" news services.
 12.20 p.m.—ROY WARREN, Harpist: "Hydra the Crean" (Elshot).
 "Young Tom O'Deven" (Coleridge Taylor).
 12.27 p.m.—STUDIO ORCHESTRA: "Perle Soufflé Coctail" (Coleridge Taylor).
 12.34 p.m.—STORY: Exchange information.
 12.49 p.m.—ANDREW FORTUNE, Piano: "The Prophet Bird" (Schumann).
 12.47 p.m.—MAXWELL CAREW: "Good Old Jeff." "Swing Yodel."
 12.54 p.m.—STUDIO ORCHESTRA: "Gethsemane" (Coleridge Taylor).
 1.14 p.m.—CARRIE CATRINDUFF, Soprano: "The Rose Leaves the Nightingale" (Korakoff).
 "Lullaby" (Grachaminoff).
 1.12 p.m.—Meteorological information. Shipping intelligence. Weather report for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports.
 1.15 p.m.—STATION TRIO: "No. 1 Trio" (Boothman).
 1.25 p.m.—ROY WARREN, Bass: "A Warwickshire Wool" (James).
 "Fair Phillips" (Old English).
 1.35 p.m.—LEW JAMES AND DODIE WOLFE: Musical Gossip.
 1.46 p.m.—STUDIO ORCHESTRA: "Hiawatha Suite" (Coleridge Taylor).
 1.53 p.m.—CARRIE CATRINDUFF, Soprano: "I've Been Roaming" (Old English).
 "I Know Where I'm Goin'" (Old Irish).
 2 p.m.—Close down.

AFTERNOON SESSION.

- "MIRTH AND SYNCOPATION."
 3 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "Burgundy" (Maire).
 "Bye, Bye, Blackbird" (Dixon).
 "Te-Night's My Night with Baby" (Moyer).
 3.10 p.m.—AU FAIT: "Fashion Talk."
 3.25 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "Huff a Moon is better than No Moon" (Reynolds).
 "Idolising" (West).
 "In a Little Spanish Town" (Wayne).
 3.35 p.m.—MAXWELL CAREW, Comedian: "Parted"; "The Fighting Herd."
 3.42 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "Me, You, He, Hu! Ha! Ha!" (Brown).
 "Hi, Ho, The Merri" (Woods).
 "I've Been Waiting My Dreams On You" (O'Hagan).
 3.50 p.m.—OMARA AND BURKE: ANTA BLUES: "Where the River Shakes Flows" (E. Bell).
 CHAS. O'MARA: "Recitation." "King O'Toole and Saint Kevin" (Keane).
 Father.
 4.3 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "Take in the Sun, Light out the Moon" (Woods).
 "That's Why I Love You" (Donaldson).
 "I'm Lounging for You" (Hathaway).
 4.15 p.m.—MATRON MORELAED: "Motherhood".
 4.32 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "The Villain Blacksmith Owns the Village Now" (Moore).
 "Kentucky Lullaby" (Miller).
 "There Ain't no Maybie in My Honey's Eyes" (Kahn).
 4.32 p.m.—JAMES RILEY, Tenor: "Who is Sylvia" (Schubert).
 "Man Lindy Lou" (Strickland).

4.00 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:

- "I've Got the Girl" (Donaldson).
 "You've Got to Be Black Shufie" (Sparks).
 4.45 p.m.—"Herald" news service. Stock Exchange information.
 5 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

- 6.30 p.m.—Answers to Letters and Birthday Greetings.

- 6.50 p.m.—MARION LIGHTFOOT, Steel Guitar: "Folks"; "Darkies"; "Jeanies".

- 5.57 p.m.—MARY GUMBLEY, Piano: "The Fairies Mail"; "The Littlest Friend"; Story for the Little Ones; "Hilda's First Friend".

- 6.7 p.m.—MARION LIGHTFOOT, Banjo: "Camptown Carnival"; "The World is Waiting for the Sunrise".

- 6.14 p.m.—CAPTAIN DONALD MACLEAN: "Pirates".

- 6.30 p.m.—OFFICIAL REPORT OF NEWMARKET STOCK SALES Report on Sheep and Lamb Sales.

- 6.35 p.m.—"Argus" and "Herald" news services. Weather synopsis. Shipping movements.

- 6.47 p.m.—Stock Exchange information.

- 6.50 p.m.—Fish Market reports by J. R. Pritchard, Rabbit Prices.

- 6.55 p.m.—Market prices by the Victorian Producers' Cooperative Co., Ltd. Dairy Products, Peasants and Onion, Poultry, Grain, Straw, Hay and Juic.

- 7.00 p.m.—Fruit Market reports by the Victorian Wholesale Fruitgrowers' Association, compiled by the "Fruit World," exclusive to 3LO.

NIGHT SESSION.

- 7.15 p.m.—Under the Auspices of THE TOWN PLANNING ASSOCIATION, MR. KENETH CHEETHAM, F.R.I.B.A., will speak on: "Street Architecture."

- 7.30 p.m.—Under the Auspices of THE UNIVERSITY EXTENSION BOARD, MR. J. G. CAMSON, B.A., M.Ed., Lecturer in Psychology at the University Extension Board, will speak on: "The Frightened Child."

- 7.45 p.m.—MR. W. PONSFORD, International Cricketer, will speak on: "Baseball—AN OLD FAVOURITE."

- 8 p.m.—MAXWELL CAREW, COLLEGIANS OPERATIVE SOCIETY: "THE COUNTRY GIRL."

- CAST: Geoffrey Challoner (A Naval Officer), Mr. Walter Pruden (A Gentleman), Mr. Alan Pritchard (A Gentleman), Mr. Albert H. Butler (Lord Anchester (Minister of Fine Arts)), Mr. J. P. Cavaney (Lord Grammer (Guest of Lord Anchester)), Mr. D. P. Fowles (Major Vicar (Guest of Lord Anchester)).

- Mr. A. Pullein-Barry (Geoffrey's Son), Mrs. St. Quinton (Mrs. Major Vicar), Mrs. St. Quinton (Miss Mary M. Reid Nurse), Miss Prue Stevens (Lady Anchester), Mrs. Phyllis O'Brien (The Village Flibbit), Miss Mac Seaton (Chorus of Villagers, Guests, Attendants, etc.), Stage Manager, L. G. Thomas, W. A. Price, Secretary.

- THE COUNTRY GIRL (Cast): Madame Sophie (London Dressmaker), Miss Evelyn Saunders (Madame Sophie's Servant), Miss Margaret Rose (Miss Mary M. Reid Nurse), Miss Prue Stevens (Lady Anchester), Mrs. Phyllis O'Brien (The Village Flibbit), Miss Mac Seaton (Chorus of Villagers, Guests, Attendants, etc.), Stage Manager, L. G. Thomas, W. A. Price, Secretary.

MUSICAL NUMBERS.

ACT I.

- Opening Chorus, "When the Birds Begin to Sing." Song, "Try Again, Jennie" (Nellie Melba). Song, "Coo" (Geoffrey Smith). Song, "To-Go" (Barry and Charles Duet). "Girl and Boy" (Marion and Barry). Chorus, "The Raish of Bhong" (Chorus and Piano).

- Song, "Molly the Marchioness" (Nan and Charles). Chorus, "The Areadians" (Chorus and Piano).

- Duet, "Two Little Chicks" (Barry and Charles). Song, "Under the Deck" (Prince). Finale.

Full Company.

ACT II.

- Opening Chorus, "Song, "My Partners" (Sophie). Song, "Take your Pretty Partner" (Sette). Song, "Mr. and Mrs. Brown" (Rajah and Charles). Song, "Love Transfixed" (Barry and Charles).

- Song, "What I am a Girl" (Barry). Song, "Mr. and Mrs. Brown" (Barry and Charles). Song, "I Can Laugh, I Can Love" (Barry and Charles).

- Song, "Peace" (Rajah and Charles). Duet, "Quarrelling" (Sophie and Barry). Finale.

- 10.15 p.m.—"Argus" news service. Weather reports.

- 10.25 p.m.—STUDIO ORCHESTRA: "Lu Chant du Génier" (Massenet).

- 10.32 p.m.—ELSA STRALIA AND MAXIM BRODIE: MAXIM BRODIE:

- "When You're Severe" (Tchaikovsky). ELSA STRALIA: "What You Walk" (Handel).

- "Softly Awake My Heart" (Saint Saens). "Angels Guard Thee" (Gounod).

- Duet, "Oh, Lovely Night" (Bonnell).

- 10.55 p.m.—STUDIO ORCHESTRA: "Romance" (Beethoven).

- 11 p.m.—THE ROYAL AUTOMOBILE CLUB VICTORIA SAFETY MESSAGE FOR TODAY IS: "MODERATE."

- "The human element is important in the vast majority of accidents. Undivided attention must be given to the task of driving a car."

- 11.30 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:

- "Maiden on the Geanges" (Wallace). "Some Other Girl" (Birchmore). "While the Years Go By" (Reyes).

- "Clan Handa, Here Comes Charlie" (Nolan). "How Could Red Riding Hood" (Handel).

- "Mignonne" (Nicholas). "It Made You Happy" (Donaldson).

- "Speed" (Friend). "March on the Piano" (Plane Solo (Confrey)).

- "Meek and Mild" (Fleming). "Stepping in Society" (Aldrich).

- "Calm Hawaiian Seas" (Olson). "You Need Someone to Love" (Olson).

- "Hi, He, the Merril" (Brown).

- "Oh, Louis Blues" (Handy).

- 11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Tuesday

MIDDAY SESSION.

- 1.00 p.m.—MARKET REPORTS. Weather Information. "The Daily Mail" and "The Daily Standard" News.

- 1.20 p.m.—From Hotel Carlton: London Symphony Orchestra.

- 1.25 p.m.—From the Observatory: Standard Time Signals.

- 2.00 p.m.—Close Down.

AFTERNOON SESSION.

- 3.00 p.m.—A Programme of Music from the Studio: Duo Art selection, "Valse Intermezzo" (Robertson), Acadian Vocal Selections, violin, "Adagio" (Maurice Adlin Fischini), piano, "L'Amour des Moutons" (Nelson), Miss Matilda McEachern.

- Duo Art selection, "The Lark" (Glinka). Aeolian Vocal Selections: (a) orchestra,



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

"The Barber of Seville" (Rossini); Metropolitan Orchestra; (b) tenor solo, "Donna Non Vidi Mai" (Puccini); Signer Guido Crami; Duo Art selection, "Mignon"; (Thomas); Arcadia Vocalion selections; (a) duet, "She Was a Real Wild Child" (Sargent); Houston and Winter; (b) song, "Dinner at Eight" (Roxbury); Duo Art selection, "Captiva" (Raft).

4:16 p.m.—"Telegraph" News.
4:30 p.m.—Close Down.

EARLY EVENING SESSION.

4:00 p.m.—"Daily Standard" News; Announcements.
5:30 p.m.—The Children's Session: Stories by Uncle Ben and Uncle Jim.
7:00 p.m.—Market Reports; Stock Reports.
7:10 p.m.—Weather News; Radio Memoranda.
7:45 p.m.—Standard Time Signals.
7:45 p.m.—Lectures: "Motors—Correct Lubrication Take No. 5," by "Gargoyle."

NIGHT SESSION.

POPULAR CONCERT.

8:00 p.m.—From the Studio: Orchestral, "Italian Suite" (Greenwald), the Studio Instrumental Quartette (conductor, Mr. F. Stodart); solo, "Madame Butterfly" (Koh).
8:10 p.m.—From the School of Arts: Choral numbers; (a) "Jesu Jesu" (Beveridge), (b) "The Northernman's Song" (Kuchen), (c) "The Last Day of May" (Meliquel), (d) "Viking Song" (Coleridge-Taylor), the Brinsford Apollo Club (conductor, Mr. Leonard Francis).
8:20 p.m.—From the Studio: Orchestral, "At Sunset" (Brewer), the Studio Instrumental Quartette; a thought for to-night (Will H. Listler), "Laziness"; male quartette, "Our Uncle Ned" (Parks), the Anglo Male Quartette; Hawaiian instrumentalists, the Kuhua Trio; mezzo solo, "Dream Tryst" (Cademus); Miss Kitty Miller; bass solo; bass duet, "Serenade" (Schubert), Mezzo, C. Knibb and R. Pike; monologue, "His First Long Troubles" (Guest), Mrs. A. Postle; contralto solo, "Something I Seem to Hear You" (Philips), Miss Vera Parker; overture, "Farewell" (Schubert), the Studio Instrumental Quartette; solo, "Dear Love Remember Me" (Marshall), Mr. C. R. Koh; Hawaiian instrumentalists, the Kuhua Trio; bass solo, "Thank God for a Garden" (Del Rio), Mr. R. Pike.
9:00 p.m.—Metropolitan Weather Forecast; male quartette, "The Angel I Love" (Parks), the Anglo Male Quartette; monologue, "Old Bachelor" (West), Mr. A. Postle; baritone, "Love Could I Only Tell Thee" (Casoli), Mr. A. F. Stodart; solo, "Dawn" (Vannah), the Studio Instrumental Quartette; male quartette, "Little Boy" (Parlo), the Anglo Male Quartette; Hawaiian instrumentalists, the Kuhua Trio.
9:30 p.m.—From the Centennial Hall: Dance Music.
10:00 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

5CL, ADELAIDE.

Tuesday.

MORNING SESSION.

12 noon.—G.P.O. chimes.
12:15 p.m.—Musical selections.
12:30 p.m.—"Advertiser" news service.
12:55 p.m.—Market reports.
1:00 p.m.—G.P.O. chimes.
1:15 p.m.—Musical selections.
2:00 p.m.—G.P.O. chimes, and close down.

AFTERNOON SESSION.

3:00 p.m.—G.P.O. chimes.
3:15 p.m.—Radio from Maple Leaf Cafe—Orchestral selections.
3:45 p.m.—From the Studio—Recitals on the "New Reproducing Sonora" and the "Automatic Reproducteur."
4:00 p.m.—G.P.O. chimes.
4:15 p.m.—Relay from the Arcadia Cafe—Orchestral selections.
4:30 p.m.—Station announcements.
4:45 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

6:00 p.m.—G.P.O. chimes.
6:15 p.m.—Dinner music by Covent Garden Restaurant Orchestra.
6:45 p.m.—Bedtime stories.
7:00 p.m.—Market reports.
7:10 p.m.—Home beautiful talk, by "Dorothy" (Sargent).
8:00 p.m.—Fifteen minutes with Miss Luise McEwen, in popular songs and monologues.
8:20 p.m.—Selection, Suburban Band.
8:30 p.m.—Song, Miss Keila Wyly.
8:45 p.m.—Talk by Rev. A. G. Nichols—on "The Chinese in China."
9:00 p.m.—Weather report.
9:30 p.m.—Dalgety's wheel report.
9:45 p.m.—Selection, Suburban Band.
9:54 p.m.—Song, Mr. Don Ferris.
10:18 p.m.—Selection, Suburban Band.
10:32 p.m.—Flautist solo, Miss Lucy Foglia.
10:38 p.m.—Song, Mr. Don Ferris.
10:42 p.m.—Song, Miss Myra Butler.
10:46 p.m.—Sonata recital.
11:00 p.m.—G.P.O. chimes and close down.

6WF, PERTH.

Tuesday.

12:30 p.m.—Tune in.
12:35 p.m.—First local news bulletin.

Market reports.

Cables.

1 p.m.—Time signal from Perth Observatory.
1:15 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1:30 p.m.—Studio Instrumental Trio.
1:40 p.m.—Close down.
1:50 p.m.—Tune in.
1:55 p.m.—Studio Musical programme, including landscape selections by Miss Evelyn Willis, A.R.C.M.
2:00 p.m.—Studio Instrumental Trio.
2:20 p.m.—Close down.
2:45 p.m.—Tune in.
2:50 p.m.—Studio Musical programme, including landscape selections by Miss Evelyn Willis, A.R.C.M.
3:00 p.m.—Stories for Tiny Tots by Auntie Kate.
3:15 p.m.—Uncle Leslie will talk to the kiddies.
3:20 p.m.—Stock and Share intelligence.
3:30 p.m.—Market reports.
3:45 p.m.—News by courtesy of "The West Australian" Newspaper Co.
3:45 p.m.—Talk.
4:00 p.m.—Tune in.
4:15 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
4:30 p.m.—Band Night.
4:45 p.m.—Concert by the Perth City Band, Conductor, Mr. W. A. Halverson.
5:00 p.m.—Local news items by courtesy of "The Daily News" Newspaper Co.
5:00 p.m.—Ships within range announcement.
5:00 p.m.—Weather report and forecast.
5:30 p.m.—Close down.

Wednesday, June 8
2FC, SYDNEY

MORNING AND MIDDAY SESSION.

11 a.m.—"Big Ben" and programme announcements.
11:15 a.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, news services.
11:20 a.m.—Market Reports.
11:20 p.m.—Summary of "Sydney Morning Herald" news service.

11:30 a.m.—Children.
11:45 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Futter.
11:55 a.m.—Anatomical Institute.
12 noon.—"Big Ben" Music from the Studio.
12:15 p.m.—Stock Exchange, first call.
12:30 p.m.—Studio Music.
12:45 p.m.—Rugby Wireless News.
12:49 p.m.—Marching music for the school children.
1:00 p.m.—Miss Muriel Humphries, contralto.
1:15 p.m.—"Loosey Nicky" (Rowell).
1:45 p.m.—Studio Music.
2:00 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—The Chimes of 2FC and announcements.
3:30 p.m.—A Recital arranged by Mr. Beving Flaming.
3:50 p.m.—Marching music for the school children.
4:10 p.m.—From Farmer's Tea Room: Miss Peggy Dunbar, contralto; "The Garden of Your Heart" (Benn).
4:15 p.m.—From the Studio: Miss Jeannette Rooney, contralto; "The Silver Ring" (Chadwick).
4:30 p.m.—Studio Music.
4:45 p.m.—From Farmer's Tea Room: Miss Florence Grant, soprano; "A Dream" (Wright).
4:55 p.m.—A Talk on "Painting by Number" by Miss Mabel Webb.
5:00 p.m.—From Farmer's Tea Room: Miss Peggy Dunbar, contralto; "They Say" (Benn).
5:15 p.m.—Studio Music.
5:30 p.m.—Miss Jeannette Rooney, contralto; "Irish Folk Song" (Funde).
5:45 p.m.—From Farmer's Tea Room: Miss Florence Grant, soprano; "Beechide" (Ariffil).
5:50 p.m.—Stock Exchange, third call.
5:55 p.m.—Studio Music.
6 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5:45 p.m.—The Chimes of 2FC.
5:55 p.m.—"Big Ben" talk to the children.
6:15 p.m.—Uncle Tom and Jerry talk to the children.
6:30 p.m.—A Serial Story.
6:40 p.m.—Dinner Music.
6:45 p.m.—"Big Ben." Late Sporting News.
7:10 p.m.—Burkett's Market Reports (wheat, wheat, stock).
7:22 p.m.—Fruit and vegetable market.
7:30 p.m.—Weather and shipping intelligence, Stock Exchange.
7:35 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7:45 p.m.—The Chimes of 2FC and announcements.
7:50 p.m.—A Book Review by Mr. Grattis Smith.
8 p.m.—"Big Ben," violin solo:
 (a) "Ave Maria" (Schubert).
 (b) "Serenade" (Armenky).
8:30 p.m.—Madame Vera Tasma, soprano:
 (a) "The Willow Song" (Coleridge-Taylor).
 (b) "The Child and the Twilight" (Parry).
8:15 p.m.—Madame Evelyn Griez in a group of Negro Spirituals, with descriptive details:
 (a) "Stair Away" (Burleigh).
 (b) "I Got a Home in That Rock" (Burleigh).
 (c) "Gospel Train" (Burleigh).
 (d) "Deep River" (Burleigh).
8:35 p.m.—Mr. Henk Vroede, clarinet solos.

The Best Sets Deserve The Best Parts

-ADVANCE-

ALL AUSTRALIAN

"Advance" Radio Parts Lead in Quality and Prices.

Since the inception of our business it has been our policy to give better parts for less money, and to increase our markets and output in order to reduce our selling cost, to the buying public. This has been done now in numerous cases. The popular demand for our goods has forced us to make a big increase in our plant, and also employ more hands. You get the best at lowest prices, and are supporting an ever-growing Australian industry.



Rear Panel Mounting
Vernier Dial
Price, 7/6



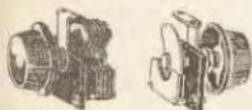
The Advance Rear Panel Mounting Vernier Dial has been designed to eliminate that clumsy cast that has ruined the appearance of good sets in the past. A neat high finished base with only a black knob gives the set a professional appearance. Being your own set a dial, and instead of the Rear Panel Dial. Supplied with front panel finish in gold, silver or bronze, fitting complete supplied—you can't go wrong. In ordering specify base finish required.



The New
"Advance"
CENTRALIGN
CONDENSER
60025—12/- .00025—
12/- .0003—12/-

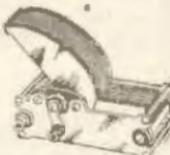


The new Advance "Centraligned" Condenser has been introduced so that no crowding of spacing occurs in any portion of the dial reading, and retains normal adjustment on the middle of a scale, surrounded in a cushioned aluminum frame being most rigid, non-conductive brass plates with a minimum of dielectric hollow shaft designed for multiple mounting and runs either left or right, insuring the same balance throughout. We have further made the Advance "Centraligned" type 10 name, situated ahead of the name.



"Advance" Audio Frequency Transformer

This Transformer has been designed to build up the volume of detected broadcast signals to a true reproduction of the transmission, to increase the strength of signals received and to reduce noise greatly from time. Each individual transformer is carefully inspected and tested at the factory before being packed, and is guaranteed to be electrically and mechanically perfect. Made in ratios of 2-1, 3-1, 5-1 ... Price 17/-



UX or UV Porcelain Tube Sockets

The Advance Low Loss Porcelain Tube Socket has been designed for its perfect insulation, and for use with either U.X. or U.V. type of tubes, carrying two porcelain knobs with side cap and bottom contact, thus insuring the perfection of contacts. The porcelain base insures that perfect insulation is ideal for all purposes. Price 2/-

(MIDGET) AND NEUTRALIZING CONDENSERS

The Advance Midget Condenser has all the characteristics that have made Advance Condensers so famous. This Midget has soldered non-interfering brass plates supported by a minimum of dielectric, and finished with a nicely moulded bakelite knob.

The Neutralizing Condenser of the same construction as above, has a base, panel, mounting and bakelite knob. Correct capacitors for neutralising and balancing condensers.

Midget 11 Plate — 6/-; Neutralizer 3 plate 4/-

Rheostats
6, 10, 20 and
50 ohms—
3/-



Potentiometers
200 and
400 ohms.
3/-



Rheostats and Potentiometers
This metal shielded air cooled rheostat is of the same quality as all other Advance products. They are of pure contact, and a perfect resistor unit. All that is desirable in the rheostat is embodied in this unit.

The Potentiometers have the same features and characteristics as the rheostats, made in 200 and 400 ohms.

FOX & MAGGILLYCUDDY, SYDNEY

Knife Switch with Arrestor
A necessary adjunct to all sets, being tested and passed by the Melbourne University and passed by the Fire Underwriters' Association. It embodies switch and switch with lightning arrestor. Price 2/-



PRICES:
60025. 9/-
60035. 16/-
60065. 16/-

Lightning Arrester, 2/-

A separate unit when switch with arrestor is not required; also passed by the Melbourne University and Fire Underwriters' Association.

HARRINGTONS, SYDNEY

8.40 p.m.—Ron Garling and his new company of Radio Entertainers, "The Sparklers"; Introduction, "How do you do?"
 8.43 p.m.—Miss Peggy Dunbar and chorus; "Loves old Sweet Song."
 8.45 p.m.—Mr. Montgomery Stuart in sparkling humor.
 8.50 p.m.—Mr. Ernest Archer, tenor:
 "Ain't I a peach."
 8.55 p.m.—The Sparklers invite listeners to join them in a Fox Trot.
 9 p.m.—Miss Maida Jones has a sparkling number; "Oh Alabern."
 9.5 p.m.—Mr. Ron Garling and the company will burlesque something or somebody.
 9.10 p.m.—Mr. Wilfrid Thomas, basso; "Young Tom o' Devon."
 9.15 p.m.—Mr. Ad. Cress in a "Little Bit o' Scotch."
 9.20 p.m.—Yes, it's time for another dance.
 9.25 p.m.—Miss Peggy Dunbar, contralto; "My Ain Folk."
 9.28 p.m.—The Sparklers say "Let's have a song with a chorus."
 9.30 p.m.—Mr. Ron Garling will burst into song and tell what happened "When Sister Mary tried to broadcast."
 9.35 p.m.—Mr. Ernest Archer "In the Garden of Your Heart."
 9.40 p.m.—Mr. Montgomery Stuart will become frivolous.
 9.45 p.m.—Miss Maida Jones will sing "Sweet Child" and "Blame it on the Waltz," with a little help from the company.
 9.48 p.m.—Mr. Wilfrid Thomas has "Nothing to say."
9.55 p.m.—ANOTHER DANCE!
 9.58 p.m.—Mr. Ad. Cress and the Sparklers ask listeners to join them in a Fox Trot.
 10 p.m.—Mischa Dobrinski, violin solo; (a) "Chanson Arabe" (Rimsky-Korsakoff-Kreisler); (b) "Spanish Serenade" (Chaminade).
 10.4 p.m.—Madame Yvonne Tasman, soprano; (a) "Solveig's Song" (Grieg); (b) "Kerry Dance" (Molloy).
 10.45 p.m.—Mr. Ernest Archer:
 "Sally Hooper" (Old English).
 10.50 p.m.—Mr. Harry Vroom, clarinet solo.
 10.55 p.m.—Mr. Montgomery Stuart, violinist.
 10.58 p.m.—Broadcast from the Haymarket Theatre, Sydney: The Symphonic Dance Orchestra under the tuition of Mr. Frederick Leighton.
11 p.m.—"Big Ben."
 National Anthem.
 Close down.

2BL, SYDNEY.

Wednesday.

11 a.m.—G.P.O. clock and chimes.
 11.15 a.m.—Musical programme from the Studio.
 11.10 a.m.—News from the "Sun."
 11.20 a.m.—Talk on "Aviation," by Miss Gwen Varley, Broadcasters' Women's sports authority.
 Special Notes—Replies to correspondents by Mrs. Jordan.
 Welfare talk by Dr. Morris.
 12 noon—G.P.O. clock and chimes.
 12.15 p.m.—Special ocean forecast and weather report.
 12.30 p.m.—Musical programme from the Studio.
 12.45 p.m.—Information—Mails and shipping, and movements of important ships.
 12.55 p.m.—Sydney Stock Exchange calls.
 12.58 p.m.—Boats in call by wireless.
 12.59 p.m.—Fruit market report.
 12.61 p.m.—Vegetable market report.
 12.62 p.m.—London metal market report.
 12.63 p.m.—Daily and then present market report.
 12.57 p.m.—Racing resume.
 12.58 p.m.—G.P.O. clock and chimes.
 12.59 p.m.—Musical programme from the Studio.
 12.59 p.m.—Sporting Information ("Sun").
 12.55 p.m.—Musical programme from the Studio.

1 p.m.—G.P.O. clock and chimes.
 1.15 p.m.—Postoffice lecture recital by Arnold E. Mots, B.A., in the Fine Art Gallery, Anthony House.
 1.40 p.m.—Musical programme from the Studio.
 1.50 p.m.—Sydney Stock Exchange calls.
 1.55 p.m.—News from the "Sun."
 2 p.m.—G.P.O. clock and chimes.
 During information broadcast immediately after each race, by courtesy of the "Sun."
 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.
 2.40 p.m.—Musical programme from the Studio.
 2.45 p.m.—News from the "Sun."
 2.51 p.m.—Musical programme from the Studio.
 3 p.m.—G.P.O. clock and chimes.
 3.1 p.m.—News from the "Sun."
 3.15 p.m.—Musical programme from the Studio.
 3.30 p.m.—G.P.O. clock and chimes.
 3.31 p.m.—Talk on "The Great Composers," illustrated on Straube piano.
 3.35 p.m.—News from the "Sun."
 4 p.m.—G.P.O. clock and chimes.
 4.1 p.m.—Musical programme from the Studio.
 4.15 p.m.—Story serial.
 4.30 p.m.—G.P.O. clock and chimes.
 4.31 p.m.—Musical programme from the Studio.
 4.41 p.m.—News from the "Sun."
 4.50 p.m.—Racing resume.
 4.52 p.m.—Producers' Distributing Society's fruit and vegetable market report.
 4.54 p.m.—Resume of night's programme.
 4.56 p.m.—Announcements.
 4.58 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.
 5.46 p.m.—Daddy Longlegs and the kiddies.
 5.49 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 courtesy of Government Meteorologist.
 Stock Exchange reports.
 Grain and fodder report ("Sun").
 Dairy produce report ("Sun").
 7.15 p.m.—Country news from "Sun."
 7.30 p.m.—Talk by a member of the St. John Ambulance brigade.
 8 p.m.—G.P.O. clock and chimes.
 Broadcasters' Topic Chorus.
 8.1 p.m.—Mr. Phil Mountain, comedian.
 8.10 p.m.—Miss Grace Quine, popular songs.
 8.17 p.m.—Broadcasters' Trio.
 8.20 p.m.—Mr. A. G. Steel, baritone.
 8.24 p.m.—Broadcasters' all-sports expert will talk on boxing.
 8.49 p.m.—Mr. William Everard.
 8.55 p.m.—Resume of following day's programme.
 Weather report and forecast by courtesy of Mr. C. J. Marcs, Government Meteorologist.
 8.55 p.m.—G.P.O. clock and chimes.
 9 p.m.—Mr. Bobbie Watson, comedian.
 9.5 p.m.—Miss Gladys Verona, soprano.
 9.55 p.m.—Broadcasters' Trio.
 9.58 p.m.—Mr. Phil Mountain.
 9.45 p.m.—Miss Grace Quine.
 9.52 p.m.—Mr. A. G. Steel.
 10 p.m.—G.P.O. clock and chimes.
 10.1 p.m.—Mr. William Everard.
 10.5 p.m.—Mr. Bobbie Watson.
 10.58 p.m.—Mr. Bobbie Watson.
 10.55 p.m.—Cec Morrison and his Clowns' broadcast from the ballroom of the Bondi Casino. During intervals between dances, news reports by courtesy of the "Sun" will be broadcast.
 11 p.m.—G.P.O. clock and chimes.
 National Anthem.

2GB, SYDNEY

Wednesday.

MORNING SESSION.

8 a.m.—Music.
 8.5 a.m.—Cocaine Talk by Mr. J. K. Powell.
 9.26 a.m.—Psychological Chess.
 9.40 a.m.—Music.
 9.45 a.m.—Health and Diet.
 10 a.m.—Close down.

AFTERNOON SESSION.

3.50 p.m.—Music.
 4.30 p.m.—Music.
 4.45 p.m.—Music.
 4.51 p.m.—Theosophy by Mrs. M. McElhinney.
 4.52 p.m.—Music.
 4.50 p.m.—Close down.

EVENING SESSION.

6.30 p.m.—Children's Session.
 7 p.m.—Music.
 7.5 p.m.—Address by Mr. Harold Morton.
 7.55 p.m.—Health Service: Benedictine.
 7.58 p.m.—Address.
 7.59 p.m.—Instrumental Trio: MONICA HOPPER, MURIELLE LANG, ADA BROOK.
 8.5 p.m.—Address by Professor Ernest Wood.
 8.20 p.m.—Song by MISS ETHEL JONES:
 1. "Down Vesthall Way" (Oliver).
 2. "The Temple Bell" (Finch).
 2.30 p.m.—Violin Solos, MR. DAN SCULLY.
 8.35 p.m.—2GB Vocal Quartet:
 1. "I'm a Poor Woman" (Carr).
 2. "There was a Jolly Miller."
 ETHEL JONES, SIRYL BEVAN, THOS. HALL, CLEMENT HOSKING.
 8.45 p.m.—Piano Solos:
 MISS MAVIS PARKER.
 8.55 p.m.—Ante-natal.
 9 p.m.—Shakespearean Play by Mr. Walter Hunt.
 9.15 p.m.—Instrumental Trio: MONICA HOPPER, MURIELLE LANG, ADA BROOK.
 9.20 p.m.—Address by CLEMENT HOSKING:
 1. "The Little Girl from Hanley Way" (Clarke).
 2. "The Old Grey Fox" (White).
 9.33 p.m.—Duet for Two Violins with Piano Accompaniment: DAN SCULLY, MONICA HOPPER, ADA BROOK.
 9.45 p.m.—2GB Vocal Quartet:
 1. "The Lake of Richmond Hill."
 2. "Home Sweet Home."
 3. "O Who will not be Down."
 ETHEL JONES, SIRYL BEVAN, THOS. HALL, CLEMENT HOSKING.
 9.55 p.m.—Talk.
 10 p.m.—Close down.

3LO, MELBOURNE.

Wednesday.

MIDDAY SESSION.

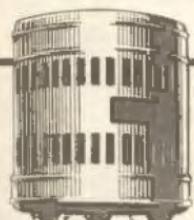
12 noon.—Time Signal; British Official Wireless News from Radio; Reuter's and the Australian Press Association Cables; Stock Exchange Information; "Argus" and "Holden" News Service.
 12.30 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS.
 "In a Little Garden" (Yola).
 "Marc Lou" (Lyman).
 "No Foolin'" (Owens).
 12.35 p.m.—LEW JAMES AND DODIE WOLFE.
 "Musical Hall Oddities."
 12.40 p.m.—Stock Exchange Information.
 12.45 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS.
 "Indian Love Call" (Frimil).
 "Rose Marie" (Frimil).
 "I'm a Little Teapot Will Ya, Buh" (Tuck).
 12.50 p.m.—MAXWELL CALLIGARIS, Comedian.
 "Tell Me That Beautiful Story, I Love Me."
 12.55 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS.
 "Any Day Today, Lady" (Bellard).
 "Papa, Pita, Betty, Lullaby" (Stancham).
 "Fire, Fire, Fire, Turn the Hose On Me" (Fox).

Now within Reach of All

STRICTLY in accordance with Philips policy—savings resulting from economy in production and distribution of this popular little Battery Charger are now passed on to the buying public direct.

Although the price is lower—its quality, dependability and efficiency remain unchanged, this is also Philips policy.

reduced to
£5·5·0



No. 450 (as illustrated) charges 1 to 3 TWO VOLT cells at 1.3 amperes. Consumption 25-30 Watts. Ready for instant connection to the A.C. Lighting Mains giving full wave rectification and automatic regulation—exclusive Philips features.

Fast, silent, simple to connect.
FROM ALL DEALERS

A co-product of famous Philips Lamps, Valves, "B" Eliminators and Loudspeakers.

PHILIPS

BATTERY CHARGER

1.15 p.m.—Meteorological Information.
1.16 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
 "Katinka" (Tobias).
 "Precious" (Whiting).
 "Neapolitan Nights" (Zamennick).
2.0 p.m.—"THE FUTURISTS," present their BANDS before SAVOURY SNACKS.

The Company read you the Menu.
GUS DAWSON will sing you a modern melody and dance a few steps.
A SKETCH by the COMPANY.
DISMAL DESMOND will try and make you laugh before the Company.

A FINALE by the Company.
1.40 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS,
 "Hi, Diddle Diddle" (Coon).
 "At Pease With the World" (Berlin).

1.50 p.m.—O'MARA AND BURKE, Entertainers from the Emerald Isle.
 Anna Burke, "Eileen of Kilcarney" (W. Thomson).
 Father.

Chas. O'Mara, Recitation,
 "Kelly's Dream" (Pat Hoey).
2.0 p.m.—Description of Eustis Handicap, 2 miles, Merton Races, by "Musket," of the "Sporting Globe".
2.5 p.m.—Close Down.
2.30 p.m.—Description of Two-Year-Old Handicap, 5 furlongs, Merton Races, by "Musket," of the "Sporting Globe".
2.50 p.m.—Close Down.

AFTERNOON SESSION.

SPORT AND ADVENTURE.
2.0 p.m.—Description of Brush, Sleepie, 2 miles, 15 chains, Merton Races, by "Musket," of the "Sporting Globe".
2.5 p.m.—STUDIO ORCHESTRA,
 "Waltz" (Tschakowsky).
3.0 p.m.—MR. CHARLES NUTTALL will speak on "What is Education?"

3.20 p.m.—STUDIO ORCHESTRA,
 "Florodora" (Keefert).
3.30 p.m.—Description of Weller Handicap, 1½ miles, Merton Races, by "Musket," of the "Sporting Globe".

3.30 p.m.—MAXINE BRENNER, Soprano,
 "Havana" (Caruso).
 "One Fine Day," Madame Butcher.

3.42 p.m.—DOROTHY ROXBURGH, Viola:
 "Allegretto Romantique" (Simoneau).
3.50 p.m.—STUDIO ORCHESTRA,
 "Katinka" (Tobias).

4.0 p.m.—Description of Trial Plate, 5 furlongs, Merton Races, by "Musket," of the "Sporting Globe".

4.7 p.m.—WALTER SMITH, Cornell.
 "Atlantic Zephren" (Simons).
4.15 p.m.—MARIE BRENNER, Soprano,
 "The Little Brown Owl" (Sanderson).
 "Softly Awake My Heart" (Norman and Smith).

4.25 p.m.—STUDIO ORCHESTRA,
 "Pilgrim's Chorus."
4.30 p.m.—Description of Trial Purse, 1 mile, Merton Races, by "Musket," of the "Sporting Globe".

4.35 p.m.—LEW JAMES AND DODIE WOOD, Musical Hall Goldmines.
4.45 p.m.—"Herald" News Service; Stock Exchange Information.

5.0 p.m.—Close Down.

EVENING SESSION.

5.30 p.m.—Answers to Letters and Birthday Greetings.
5.50 p.m.—STUDIO ORCHESTRA,
 "Punch and Judy" (Herbert).
6.0 p.m.—MARY, MARY, QUITE CONTRARIED,
 "The Man Who Enriched a King."

6.10 p.m.—STUDIO ORCHESTRA,
 "Punch and Judy," Part II (Herbert).
6.17 p.m.—MARY, MARY, QUITE CONTRARIED,
 "With the Children about," (Safdie Prince).

6.30 p.m.—Official Report of Newmarket Stock Sales; Bullocks and Calves.

6.35 p.m.—"Argus" and "Herald" News Service; Weather and Aerial Mail Information, by the Australian Aerial Services, Ltd.
6.47 p.m.—Stock Exchange Information; Overseas Shipping.

6.55 p.m.—FISH MARKET REPORTS, by J. R. Forrest, Ltd., Rabbit Prices.
7.00 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd. Newmark Sheep Sales; Poultry, Grain, Straw, Hay, Jute, Cloth; Dairy Produce, Potatoes and Onions; Fruit Market Reports by the Wholesale Fruiteers' Association, compiled by "The Fruit Word," exclusive to SLO.

NIGHT SESSION.

7.15 p.m.—Under the auspices of the Department of Agriculture, MR. R. GROVE, Experimental Superintendent, will speak on "Marketing Methods."

7.30 p.m.—GARAGYLE,
 "Our Families and Estates" A talk on motors and their operation.

7.45 p.m.—CAPTAIN PETERS;
 "Books, Wise and Otherwise."

8.0 p.m.—BRUNSWICK CITY BAND;
 Overture, "The Fair Maid of Perth" (Velt).

8.10 p.m.—MARY MACK, contralto:
 Ballads, "June Music" (Lionel Trent).
 "You loved the time of Violets" (Herman Lehr).

8.17 p.m.—CELEBRITY FOUR, under direction of MR. W.M. JAWES;
 Selections from "In a Persian Garden" (Lister-Gurney).

8.30 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY 15:

CYCLISTS: "Never hold on to any other vehicle in motion. It is always dangerous and you run the risk of being sandwiched or thrown."

8.33 p.m.—BRUNSWICK CITY BAND;
 Waltz, "Bewitching Beauty" (Greenwood).

8.40 p.m.—MR. H. BENNETT, President of Victoria Amateur Swimming Association, will present the SLO CUP to MR. IVAN STEADMAN, who broke the Australasian record for the 220 yards breast stroke swimming championship.

8.45 p.m.—BRUNSWICK CITY BAND;
 March, "Waldemar" (Tossey).

9 p.m.—Announcement.

9.00 p.m.—ELSA STRALJA AND MAXIM BRODI;
 Maxim Brodi, "Una Furtiva Lagrima" (Donizetti).
 "Eric To-morrow Dawn" (Samuel).
 Mme. Elsa Stralja, "Bel Caggio" (Semiramide).
 "Just for a while" (Griger).
 Dueet.

9.15 p.m.—SPECIAL BIGGER PROGRAMME, "Revelle," Supplied E. P. Taylor.
 Big Call, Bowler H. P. Taylor.
 Entry of the Bands;

Band, "Martial Moments," Brunswick City Band;
 March, "Top o' the bin," Caledonian Boys' Pipe Band.

"Rehearsals of the Ocean," Brunswick City Band;
 Soldiers' and Sailors' Marching Song.
 Southern Choral Society Male Choir.

"Madeleine from Armentières,"
 Till the boys come home.
 Australia will be there.

"There's a Long, Long Trail,"
 Descriptive Selection—An episode of the Great War.

"Khartoum," Brunswick City Band.
 Revelle—Fall in.

Regimental Bands in the distance.
 Arrival of troops and shouts of welcome.
 Impromptu concert—Arrival of the V.C. Hero.

Night fall—Last Post—All lights out.
 Break of the next day—Morning gun—Revelle.

Camp in motion—Departure of troops for

SOLDIERS AND SAILORS' MARCHING SONGS, SOUTHERN CHORAL SOCIETY MALE CHOIR,
 "Good-bye."

"Here We Are Again,"
 "Silver Suite."
BUGLES CALLS: Fall in; Advance, BUGLES E. P. TAYLOR.

MARCH PAST ON NAVAL AND MILITARY FORCES,
 March, "Victor Return," Brunswick City Band.
 March, "Dugald McCall's Farewell to Stratford," "Armistice Capote," Royal Caledonian Society, "Caledonian Royal Pipe Band."

Songs of the Sea," Brunswick City Band.
 "Royal Caledonian Society's March," Caledonian Boys' Pipe Band.
 "Fighting Squadron," Brunswick City Band.

BUGLE CALL,
 "Early Morning," "Sunday Parade," Brunswick City Band.

"Early Morning—chime of the clock—Reveille—Church Call—Dressing Bugle,"
 Band in the Distance; March to Church.
 Band at the Church Gate; Organ Voluntary; Hymn; Conclusion of Services; Organ Music; Fall in; Homeward March.

IN MEMORIAM,
 "Evening Hymn," Southern Choral Society Male Choir and Brunswick City Band.

Last Post Selection," Southern Choral Society Male Choir and Brunswick City Band.

"The Memory of the Brave," Southern Choral Society Male Choir and Brunswick City Band.

10.30 p.m.—MARY MACK, Contralto,
 "A Khaki Lad" (Florence Alward).
 "Thou Art Risen My Beloved" (Coleridge Taylor).

"Sing This, Sad Heart!" (Teresa del Riego).
10.45 p.m.—"Argus" News Service; Meteorological Information; The Royal Automobile Club of Victoria's Safety Message, for today, is.

PEDESTRIANS—You are less likely to see off thoughtlessly in front of any vehicle if you walk on the left of the footpath. You are then facing the line of traffic nearest to you.

10.47 p.m.—BRUNSWICK CITY BAND,
 "Kentish Town" (Greenwood).

10.55 p.m.—British Official Wireless News; Announcements.

11.00 p.m.—OUR GREAT THOUGHT,
 "The Bird Watcher not on the covered net when it beholds another bird in the snare. Take warning by the misfortune of others, that others may not take example from you."

—SAADI.
11.15 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS,
 "Nobody But You" (O'Hanrahan).
 "My Cuties Due, At Two To Two To-day" (Fagan).

"There's A Boatman on the Vltava" (Eggen),
 "What's Why I Love You" (Donaldson).
 "Love Bound" (Rupp).

"The Far Away Belle" (Gordon),
 "Oriental Moonlight" (Seaman).
 "Crying For the Moon" (Conley).

"Me Too Ho, Ho! Ha, Ha" (Woods),
 "Tie Me To Your Arwon Strand" (Shay).
 "Dog On The Piano" (Shipley).

"Blame It On The Wall" (Kahn),
 "Blame It On The Morning" (Rule).
 "Lessons And Sorry" (Davis).

"While the Sabres Sleep" (Nichols).

11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Wednesday.

EARLY MORNING SESSION.

8.30 a.m.—Physical Culture Session,
 7.0 a.m.—Close Down.

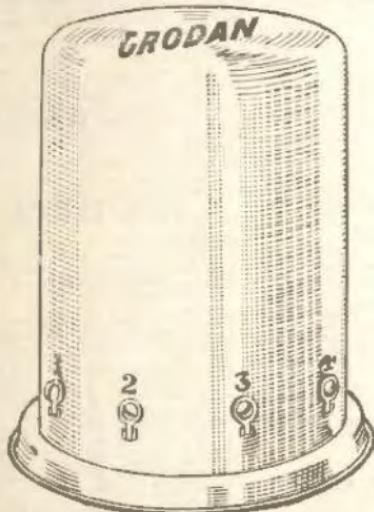
MIDDAY SESSION.

1.0 p.m.—Market Reports; Weather Information;
 "The Daily Mail" and "The Daily Standard" News.

1.30 p.m.—From the G.P.O.: London Hour Music played by the Postal Institute Orchestra.

1.45 p.m.—From the Observatory: Standard Time Signal.

2.0 p.m.—Close Down.



Use Grodan Parts

The Solodyne, the wonder set of the year, must have screened coils. The Grodan Shielded Coils conform exactly to the specifications of Mr. J. H. Reyner, the original English designer. They are rugged of construction, and will give the finest results.

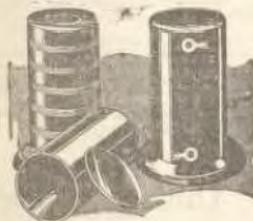
Screens are of polished aluminium, with soldering lugs at easily accessible places. Provision is made for earthing the screens to eliminate losses. A Grodan Product worthy of the name.

Latest Development in the Wireless World.

Build the Wonderful SOLODYNE Set, and use a "GRODAN" SHIELDED KIT.

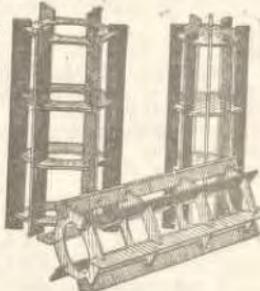
Three matched coils with circuit layouts, etc.

Price £3/7/6 Per Kit



CHOKE COILS, 4/6 each.

GRODAN SPECIAL BROWNING-DRAKE KIT



ANTI-LOSS COIL FORMERS.

The utility former of the Wireless World. Manufactured in three sizes, viz., 2in., 3in., 3½in. diameters, 2/6 ea.

BROWNING DRAKE KITS

Constructed from the best material, in accordance with the original specifications of the Inventors.

Power and tone are the characteristics of this excellent receiver.

Kit comprises, Regenaforma, Aerial Coil, Neutralising Condenser, Circuits, etc.

The more discriminating you are in judging radio apparatus, the better these kits will please you.

PRICE, £2/2/- per Kit.

Should any difficulty be experienced in obtaining these lines, communicate direct with

GROSE & DANIELL Holden Street, Redfern, SYDNEY

Phone: Red. 373.

Stocked by the Principal Radio Stores.

Kindly Write for Catalogue, and Mention This Paper.

*Tom's Reformation.*

Have you ever watched a young horse lashing out and then galloping off in pig-rooting defiance—not vicious, but just full of life and spirits?

It was just that way with Tom! He kicked hard at good advice and made the pace all over the home "paddock." When his mother warned him that some day he would bring his father's grey hairs in sorrow to the "grave"—and similar prophecies—Tom grinned and went off to play two-up.

Last Christmas a wise uncle presented him with a four-valve wireless set, two Burgess Batteries, and a year's subscription to the "Wireless Weekly." That night Tom heard news from all over Australia, and next day he was studying the Morse code to read off signals on the air.

Now Tom is building sets for all his friends.

You will find parallels to Tom's case in every country town—and every city—in Australia. Wireless is making men out of restive colts and giving them ever-fresh interest.

But if you have a Tom of your own, don't spoil the whole thing for him by putting a bad battery into a good set.

No sensible boy wants to have his interest killed by crackles and hum, and what better gift could you give your boy or any boy, than the battery which has the slogan—"Half the Cost—because double the life!" A Burgess!

- AFTERNOON SESSION.**
3.30 p.m.—From Hotel Carlton: Afternoon Tea Music from the Lounge, played by Hotel Carlton Symphony Orchestra.
4.15 p.m.—From the Studio: "Telegraph" News.
4.30 p.m.—Close Down.
- EARLY EVENING SESSION.**
4.45 p.m.—Daily Standard's "News" announcement.
4.50 p.m.—The Children's Hour: Stories by "Little Miss Brisbane."
5.15 p.m.—Market Reports: Stock Reports.
5.30 p.m.—"The Weather": Announcements.
5.45 p.m.—Standard Time Signal.
7.45 p.m.—Lectures: "Mutation in Relation to Crop Improvements," Mr. J. R. A. McMillan (Plant Breeder, Queensland Agricultural High School and College).

NIGHT SESSION.

- MUSICAL RADIO PLAY.**
"THE SHEIKH OF SHEZADAH."
In response to numerous requests which have reached the station from all parts of Australia and New Zealand, the musical radio play, "The Sheikh of Shezadah," which was broadcast during April, will be repeated to-night. The play was written, and will be produced by Michael Croger.
The musical items in it have been arranged by Mr. Eric John, and will be sung by Mr. John's party of radio vocalists.
8.00 p.m.—Malvern Radio Play: "The Sheikh of Shezadah."
10.00 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

5CL, ADELAIDE.

Wednesday:

- MORNING SESSION.**
12 noon—G.P.O. chimes.
1.15 p.m.—Recital on the "New Reproducing Sonora" and the "Autosonic Reproducer."
2.30 p.m.—"Advertiser" news service.
3.30 p.m.—Market reports.
4.15 p.m.—G.P.O. chimes.
4.15 p.m.—Musical programme continued.
4.30 p.m.—G.P.O. chimes and close down.
- AFTERNOON SESSION.**
3 p.m.—G.P.O. chimes.
3.15 p.m.—Recital from the Maple Leaf Cafe—Orchestral selections.
3.45 p.m.—From the Studio—Talk by the Rev. G. E. Hale, B.A.C.
4 p.m.—G.P.O. chimes.
4.15 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.
6.15 p.m.—Dinner music by the Covent Garden Orchestra.
6.45 p.m.—Bedtime stories.
7.25 p.m.—Market reports.
7.35 p.m.—"Boy Scouts' Corner."
7.50 p.m.—Faulding's scientific talk.
8 p.m.—G.P.O. chimes.
8.15 p.m.—Haydn Male Quartet.
8.20 p.m.—Selections, Messrs. Allan Johns and Billie Norton.
8.30 p.m.—Motor talk by "Accelerator."
8.45 p.m.—Golden Crescent Dance Orchestra.
9 p.m.—G.P.O. chimes.
9.15 p.m.—Weather report.
9.30 p.m.—"Dalyell's" wheat report.
9.45 p.m.—Haydn Male Quartet.
9.45 p.m.—Mrs. A. C. Williams' Mandolin Band.
9.15 p.m.—Song, Mr. Gerald Honly.
9.22 p.m.—Xylophone selections, Messrs. Allan Johns and Billie Norton.
9.30 p.m.—Song, Mr. R. Sim.

- 9.30 p.m.—Golden Crescent Dance Orchestra.
9.45 p.m.—Haydn Male Quartet.
9.55 p.m.—Song, Miss Mabel White.
9.57 p.m.—Pianoforte solo, Mr. Frank Innes.
10 p.m.—G.P.O. chimes.
10.15 p.m.—"Advertiser" news service.
10.30 p.m.—Song, Mr. A. Bartle.
10.45 p.m.—Mrs. A. C. Williams' Mandolin Band.
10.45 p.m.—Song, Mr. Gerald Honly.
10.45 p.m.—Golden Crescent Orchestra.
10.50 p.m.—Song, Miss Mabel White.
10.55 p.m.—Xylophone selection, Messrs. Allan Johns and Billie Norton.
11 p.m.—G.P.O. chimes and close down.

6WF, PERTH.

Wednesday:

- 12.30 p.m.—Time in.
12.35 p.m.—First local news bulletin.
Market reports.
Cables.
1 p.m.—Time signal from Perth Observatory.
1.15 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
3.2 p.m.—Lunch Hour Concert: Concert arranged by Messrs. Muggeridge, Limited, relayed from the Little Room, Murray-street.
3.45 p.m.—Studio Quartette.
2 p.m.—Close down.
3.30 p.m.—Time in.
3.45 p.m.—Musical programme.
4 p.m.—Studio Instrumental Trio.
4.30 p.m.—Close down.
4.45 p.m.—Time in.
4.50 p.m.—Children's playlets by Uncle Duffy, Uncle Alfie, Kite and Evelyn, and Uncle Henry, Eddie, Perry and Duffy.
5 p.m.—Stock and Share intelligence.
Market reports.
Cables. News by courtesy of "The West Australian" Newspaper Co.
5.15 p.m.—Talk.
5.30 p.m.—Time signal from Perth Observatory.
5.45 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
5.55 p.m.—Varley.
6 p.m.—By the Studio String Trio:
Miss Evelyn Willis, A.R.C.M., piano.
Mr. R. G. Basham, violin.
Mr. H. T. Newton, violin.
Vocal assisting artiste.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within range announcement.
Weather report and forecast.
10.45 p.m.—Close down.

Thursday, June 9**2FC, SYDNEY.**

- MORNING AND MIDDAY SESSION.**
11 a.m.—"Big Ben" and programme announcements.
11.30 a.m.—Official weather forecast, rainfall, temperatures, astronomical memorandum, shipping information, mail service.
11.45 a.m.—"Morning Reports."
11.50 a.m.—Summary of "Sydney Morning Herald" news service.
11.55 a.m.—Cables.
11.40 a.m.—Music from the Studio.
11.45 a.m.—Announcements.
12 noon—"Big Ben" Studio Music.
12.30 p.m.—Stock Exchange, first call.
12.45 p.m.—Studio Music.
12.45 p.m.—Rugby Wireless News.
12.45 p.m.—Marching music for the school children.
1 p.m.—Miss Ida Jobsthouse, soprano: "The Bird with the Broken Wing."
12.45 p.m.—Studio Music.

1 p.m.—"Big Ben"—Weather intelligence.
1.15 p.m.—"Evening News" midday news service.
2 p.m.—"Producers' Distributing Society's Report."
2.30 p.m.—Studio Music.
2.35 p.m.—Stock Exchange, second call.
2.38 p.m.—Marching music for the school children.
2.40 p.m.—Miss Ida Johnstone, *ENTERTAINER*:
"I'm Only Blue Eyes" (Massachusetts).
2.45 p.m.—Studio Music.
2.48 p.m.—A Talk by the 2FC Racing Commissioner.
2.50 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.15 p.m.—A Recital arranged by Mr. Gordon.
3.30 p.m.—Studio Music.
3.30 p.m.—Marching music for the school children.
3.40 p.m.—From Farmer's Tea Room: Miss Eva Webb Jones, soprano: "Dawn" (Strauss).
3.45 p.m.—A Dickens Reading.
4 p.m.—From Farmer's Tea Room: Miss Ethel Muller, contralto: "The Little Shepherd of Gise" (del Riego).
4.10 p.m.—Miss Knit D'Arcey, soprano: "One Easter Morning" (Neville).
4.15 p.m.—Studio Music.
4.20 p.m.—From Farmer's Tea Room: Miss Eva Webb Jones, soprano: "Valika's Song" (Shostakoff).
4.25 p.m.—Studio Music.
4.30 p.m.—Miss Ethel D'Arcey, soprano: "Dawn" (Weatherly).
4.35 p.m.—Studio Music.
4.40 p.m.—From Farmer's Tea Room: Miss Ethel Muller, contralto: "Mandowwest" (Brake).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Studio Music.
4.50 p.m.—"Big Ben."
Close down.

EARLY EVENING SESSION.

4.45 p.m.—The Chimes of 2FC and programme announcements.
5.00 p.m.—The "Hello Men" talk to the children.
5.10 p.m.—A Serial Story.
5.15 p.m.—Dinner Music.
5.30 p.m.—"Big Ben."
Local interests: Sporting Information.
5.45 p.m.—Drayton's Market Reports (meat, wheat, stock).
5.55 p.m.—Fruit and vegetable markets.
5.58 p.m.—Weather and shipping intelligence.
Stock Exchanges.
5.58 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.00 p.m.—The Chimes of 2FC and programme announcements.
7.05 p.m.—Talk by the Technical Editor of "Wireless Weekly."
7.10 p.m.—"Big Ben."
From the Studio:
The Bondi Beach Concert Band,
Conductor, Mr. C. Signati;
March, "The Vanished Army" (Alford).
7.15 p.m.—Mr. Stanley Clarkson, basso: "O Pure and Tender Star of Eve" (Wagstaff).
7.20 p.m.—Bondi Beach Concert Band;
Overture, "Light Cavalry" (Suppé).
7.25 p.m.—Mr. Charles Lawrence, entertainer: "Junks" (Merry).
7.30 p.m.—Bondi Beach Concert Band;
Waltz, "Willowmore" (Rimmer).
7.35 p.m.—Miss Helen Boyd, contralto: "Crown on His Head" (Dehradon).
7.40 p.m.—From Paling's Saloon: A Recital by the Continental pianist: Florence Meinkosser.
7.45 p.m.—"Big Ben."
From the Studio:
Mr. Charles Lawrence, entertainer: "I Often Wonder if My Mother Knew" (Lester).
7.50 p.m.—Bondi Beach Concert Band;
(a) Hoke, "Somewhere a Voice is Calling" (Bond).
(b) Caprice, "The Whistler and His Dog" (Laney).

The New
de FOREST
Radio Audions.



THE SOLODYNE can be improved 50 per cent. by using the new and improved *de Forest Audions*.

The New DL4 has been developed solely for Radio Frequency Work

The DL5 is a good detector and first Audio Amplifier, whilst

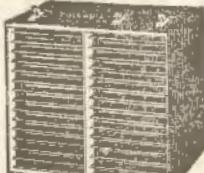
The DL7 is absolutely essential for the last stage of Audio for pure reproduction.



For the SOLODYNE
DL4, DL4, DL5, DL5, DL7,
and have a musically perfect
Radio.

de FOREST
Radio Audions

International Radio Co. Ltd.
200 Castlereagh Street, Sydney



New Columbia Layerbilt "B" Battery

A radio "B" Battery of entirely new construction, made of flat layers of elements compressed one against the other so that every cubic inch inside the battery is completely filled with electricity producing materials. This means 30% more power than that of any other battery of the same size made of round cells. It means greater power, longer life and far greater economy than it is possible to obtain from any other battery.

Columbia Radio Batteries

—they last longer

Finding Representatives
ELLIS & COMPANY (Agents) Ltd.
204-6 Clarence St., Sydney, N.S.W.

585

- 9.12 p.m.—Sydney Henry in Humorous Stories.
9.30 p.m.—Miss Eileen Boyd, contralto:
(a) "She wore a wreath of Roses" (Kingsley),
(b) "Princess Betty's Lullaby" (Stonham).
9.37 p.m.—Bondi Beach Concert Band;
Selection, "Memories of the Opera" (Rimsky-Korsakoff).
9.57 p.m.—Mr. Stanley Clarkson, basso;
"Shepherd, See thy Horse's Foaming Mane"
(Korby).
9.40 p.m.—Bondi Beach Concert Band;
Selection, "Old Memories" (Himmer).
9.52 p.m.—Mr. Charles Lawrence, entertainer;
"Wrong Numbers" (Beach).
9.55 p.m.—Bondi Beach Concert Band;
Grand March, "The King's Bodyguard" (Orff-Hinkel).
10.00 p.m.—Miss Eileen Boyd, contralto;
"The Rosary" (Nevin).
10.05 p.m.—Mr. Sydney Henry;
Humorous stories.
10.14 p.m.—Mr. Stanier Clarkson, basso:
(a) "Grief and Joy" (Regn).
(b) "Salomé" (Lang).
10.20 p.m.—Late news and announcements.
10.22 p.m.—Broadcast from the Wentworth
Hotel, Sydney.
The New Wentworth Symphonic Dances
Orchestra under the baton of Mr. Frederick
Leighton.
10.40 p.m.—Celebrity Records.
10.45 p.m.—Wentworth Cafe Dancer Orchestra.
11.00 p.m.—"Blue Ben."
National Anthem.
Close down.
- 9.31 p.m.—News from the "Sun".
9.40 p.m.—Musical Programme from the
Studio.
9.50 p.m.—News from the "Sun".
10.00 p.m.—G.P.O. Clock and Chimes.
10.32 p.m.—Vegetable Market Report.
10.44 p.m.—Resume of Night's Programme.
10.48 p.m.—Announcement.
10.52 p.m.—Special Ocean Forecast.
10.56 p.m.—G.P.O. Clock and Chimes; close
down.
- EARLY EVENING SESSION.**
- 5.45 p.m.—G.P.O. Clock and Chimes.
5.46 p.m.—Uncle George and the Kiddies.
5.48 p.m.—Musical Programme from the
Studio.
- SPECIAL COUNTRY SESSION.**
- 7.00 p.m.—G.P.O. Clock and Chimes; Aus-
tralian Merchantil and Finance Co.'s
Report; Weather Report and Forecast, by
courtesy of Government Meteorologist; Pro-
duced Distribution Society's Fruit and
Vegetable Market Report; Stock Exchange
Report; Grain and Fodder Report ("Sun");
Dairy Product Report ("Sun").
7.15 p.m.—Country News from the "Sun".
8.00 p.m.—G.P.O. Clock and Chimes; Broad-
casters' Typical Chorus.
8.3 p.m.—By Request of many Listeners—in a
repetition of the First Cycle, "In a Persian
Garden" (Lise Lehmann, Solists, Helene
Stewart (Soprano), Amy Ostini (Con-
tralto), Lance Jeffree (Tenor), Peter
Sutherland (Basso)).
8.58 p.m.—Weather Report and Forecast by
courtesy of Mr. C. J. Mares, Government
Meteorologist.
9.00 p.m.—G.P.O. Clock and Chimes; Resumé
of following Day's Programme.
9.40 p.m.—Mr. C. K. King (Mando-Cello Solo).
9.51 p.m.—Miss Marie Maxwell (Comediantess).
9.52 p.m.—Mr. Hal Purton (Baritone).
9.55 p.m.—Miss Beryl Scott (Soubrette).
9.56 p.m.—Mr. Bertie Williams (Tenor).
9.58 p.m.—Miss Marie Maxwell.
9.58 p.m.—Miss Beryl Scott.
10.00 p.m.—Cec Morrison and His Gloom-
chasers Broadcast from the Ballroom of the
Bondi Casino. During Intervals between
Dances, News Broadcast, by courtesy of the
"Sun"; will be broadcast.
11.00 p.m.—G.P.O. Clock and Chimes; National
Anthem.
- 2BL, SYDNEY.**
- Thursday.**
- DAY SESSION.**
- 11.00 a.m.—G.P.O. Clock and Chimes.
11.15 a.m.—Musical Programme from the
Studio.
11.18 a.m.—News from the "Sun".
11.20 a.m.—Social Notes; Replies to corre-
spondents by Mrs. Jordan; Talk on "Handi-
crafts" by Mrs. Jordan.
12.00 noon—G.P.O. Clock and Chimes.
12.15 p.m.—Special Ocean Forecast and Weather
Report.
12.30 p.m.—Musical Programme from the
Studio.
12.35 p.m.—Information; Mails and Shipping
and Movements of Important Ships.
12.40 p.m.—Stock Exchange Call.
12.45 p.m.—Bugs in Call by Wireless.
12.50 p.m.—Fruit Market Report.
12.55 p.m.—Vegetable Market Report.
12.58 p.m.—London Metal Market Report.
12.58 p.m.—Dairy and Farm Produce Market
Report.
12.58 p.m.—Racing Results.
12.58 p.m.—G.P.O. Clock and Chimes.
12.58 p.m.—Musical Programme from the
Studio.
12.58 p.m.—Sporting Information ("Sun").
12.58 p.m.—Hillier's Instrumental Quartette;
Direction, Cyril Costling.
12.58 p.m.—G.P.O. Clock and Chimes.
1.01 p.m.—News from the "Sun".
1.10 p.m.—Musical Programme from the
Studio.
1.15 p.m.—Sydney Stock Exchange Call.
1.18 p.m.—News from the "Sun".
2.00 p.m.—G.P.O. Clock and Chimes.
2.00 p.m.—Musical Broadcast immediately
after each call by courtesy of the "Sun".
2.10 p.m.—Talk to Children and Special Entertain-
ment for Children in Hospital.
2.20 p.m.—News from the "Sun".
2.30 p.m.—G.P.O. Clock and Chimes.
2.37 p.m.—Musical Programme from the
Studio.
2.41 p.m.—News from the "Sun".
2.51 p.m.—Musical Programme from the
Studio.
2.55 p.m.—G.P.O. Clock and Chimes.
2.57 p.m.—News from the "Sun".
3.15 p.m.—Musical Programme from the
Studio.
3.30 p.m.—G.P.O. Clock and Chimes.
- 3LO, MELBOURNE.**
- Thursday**
- MIDDAY SESSION.**
- COMMUNITY SINGING.**
- 12 noon—Time Signal; British Official Wire-
less News from Rugby; Reuter's and the
Australian Press Agency; Cables;
"Argus" and "Herald" News Service.
- 12.15 p.m.—Under the Auspice of the Theatre
Goers and Community Singers Association,
COMMUNITY SINGING, transmitted from
the ASSEMBLY HALL, Collins Street.
- 12.45 p.m.—Stock Exchange Information;
Weather Report.
- 2.00 p.m.—Close Down.
- AFTERNOON SESSION.**
- SOME ENTERTAINING FARE.**
- 3.30 p.m.—STUDIO ORCHESTRA,
"Jubilate" (Sullivan).
- 3.40 p.m.—LEW JAMES AND DORIE
WOLFE, "Musical Hall Oddities."
- 3.40 p.m.—RICHARD CHUGG, Flute,
"Will o' the Wisp" (de Young).
- 3.45 p.m.—MAXWELL C. CRAWFORD, Comedian,
"The Hunting Widow."
- "I'll Take You Home Again, Kathleen."

2.34 p.m.—STUDIO ORCHESTRA,
Adamo and Albers—No. 1. Symphony”
(Schubert).

2.41 p.m.—JAMES RILEY, Tenor
“Who is Sylvia.”

2.45 p.m.—WALTER SMITH, Corset.
“Alderman” (Hinch).

2.47 p.m.—STUDIO ORCHESTRA,
More” (Hirsch).

2.50 p.m.—The Annual Meeting of the Victorian
Retail Confectioners, Mrs. MCPHERSON
ROTHBROOK, will speak on “His Experi-
ence—Alcohol.” Transmitted from the Blue
Room, Victoria Coffee Palace, Collins Street.
2.55 p.m.—MISS FRANCES FRASER,
“The Land O’Chairs.”

2.58 p.m.—Herald News Service; Stock Ex-
change Information Acceptance for WIL-
LIAMSTOWN RACES, for Saturday, 11th
June.

3.45 p.m.—Evening, transmitted from St.
Paul’s Cathedral.

3.50 p.m.—Close Down.

EVENING SESSION,

CHILDREN’S HOUR,

3.55 p.m.—CHILDREN’S HOUR. Answers to
letters and birthday greetings.

3.58 p.m.—STUDIO ORCHESTRA,

“Penguin’s Picnic”—Part I.

4.0 p.m.—“MARY GUMLEAF,” Poems.

“The Reason Why.”

4.05 p.m.—Song for the Littlest One, “The Birthday
Party.”

4.12 p.m.—STUDIO ORCHESTRA,

“Penguin’s Picnic”—Part II.

4.15 p.m.—“MARY GUMLEAF,”

Songs for the Older Children, “Why OM
Name.”

4.20 p.m.—Official Report of NEWMARKET
STOCK SALES, Cow Sales.

4.25 p.m.—“Argus” and “Herald” News Ser-
vice; Weather Symbols; Shipping Move-
ments.

4.30 p.m.—Stock Exchange Information.

4.32 p.m.—Fish Market Reports, by J. R.
Brett, Ltd.; Rabbit Prices.

4.35 p.m.—River Reports.

4.38 p.m.—Market Report by the Victorian
Producers’ Co-operation Co. Ltd.: Juic-
ejuice, Jam, Potatoes; Oats; New-
market Sheep Sales; Poultry; Grain; Hay
and Straw.

4.40 p.m.—Market Report of Fruits, by the
Victorian Fruiturers’ Association, compiled
by the “Fruit World,” exclusive to H.O.

NIGHT SESSION.
5.00 p.m.—Under the Auspices of the HEALTH
ASSOCIATION, Mr. E. A. GREGG, will
speak on “Dental Hygiene.”

5.05 p.m.—MR. RICHARD TABER, now ap-
pearing in “SIX CYLINDER LOVE,” will
speak from his dressing-room.

ROLLER SKATING SONGS AND DANCES.

5.10 p.m.—MR. EDG. MCGREGOR, will speak
on “Football.”

5.15 p.m.—JOE ARONSON AND HIS SYN-
COPATING SYMPHONISTS,

“Alabama Stamp” (Clement),

“Just a Bird’s Eye View” (Kahn).

5.20 p.m.—THE RADION PANELS AND
TUBING THAT TO-DAY IS FOR—
MOTOCRAFTS:

Always remember that children, either on
the road or on the road, will do the
wrong thing. Drive safely and protect
the little ones.”

5.25 p.m.—JOE ARONSON AND HIS SYN-
COPATING SYMPHONISTS,

“Dreams, Love and You” (Clayton),

“I’m Walkin’ My Time” (Bible),

“Rom-Campion Blues” (Holland).

5.30 p.m.—OF MARIA AND HUBERT,
“Ode to March” (The Dovesong) (Traditional
Air).

5.45 p.m.—JOE ARONSON AND HIS SYN-
COPATING SYMPHONISTS,

“It’s a Wonderful World after All” (Davis)

“My Dream of the Big Parade”

“The Prisoner’s Honeymoon” (Walsh).

5.50 p.m.—THE FIFTH ROOTS,

“Winsome Winnie” (Winfield).

6.00 p.m.—“Winnie” (Winfield).

6.05 p.m.—“Walter” (Walter).

6.10 p.m.—“Wellington” (Wellington).

6.15 p.m.—“Walter” (Walter).

6.20 p.m.—“Wellington” (Wellington).

6.25 p.m.—“Walter” (Walter).

6.30 p.m.—“Wellington” (Wellington).

6.35 p.m.—“Walter” (Walter).

6.40 p.m.—“Wellington” (Wellington).

6.45 p.m.—“Walter” (Walter).

6.50 p.m.—“Wellington” (Wellington).

6.55 p.m.—“Walter” (Walter).

7.00 p.m.—“Wellington” (Wellington).

7.05 p.m.—“Walter” (Walter).

7.10 p.m.—“Wellington” (Wellington).

7.15 p.m.—“Walter” (Walter).

7.20 p.m.—“Wellington” (Wellington).

7.25 p.m.—“Walter” (Walter).

7.30 p.m.—“Wellington” (Wellington).

7.35 p.m.—“Walter” (Walter).

7.40 p.m.—“Wellington” (Wellington).

7.45 p.m.—“Walter” (Walter).

7.50 p.m.—“Wellington” (Wellington).

7.55 p.m.—“Walter” (Walter).

8.00 p.m.—“Wellington” (Wellington).

8.05 p.m.—“Walter” (Walter).

8.10 p.m.—“Wellington” (Wellington).

8.15 p.m.—“Walter” (Walter).

8.20 p.m.—“Wellington” (Wellington).

8.25 p.m.—“Walter” (Walter).

8.30 p.m.—“Wellington” (Wellington).

8.35 p.m.—“Walter” (Walter).

8.40 p.m.—“Wellington” (Wellington).

8.45 p.m.—“Walter” (Walter).

8.50 p.m.—“Wellington” (Wellington).

8.55 p.m.—“Walter” (Walter).

9.00 p.m.—“Wellington” (Wellington).

9.05 p.m.—“Walter” (Walter).

9.10 p.m.—“Wellington” (Wellington).

9.15 p.m.—“Walter” (Walter).

9.20 p.m.—“Wellington” (Wellington).

9.25 p.m.—“Walter” (Walter).

9.30 p.m.—“Wellington” (Wellington).

9.35 p.m.—“Walter” (Walter).

9.40 p.m.—“Wellington” (Wellington).

9.45 p.m.—“Walter” (Walter).

9.50 p.m.—“Wellington” (Wellington).

9.55 p.m.—“Walter” (Walter).

10.00 p.m.—“Wellington” (Wellington).

10.05 p.m.—“Walter” (Walter).

10.10 p.m.—“Wellington” (Wellington).

10.15 p.m.—“Walter” (Walter).

10.20 p.m.—“Wellington” (Wellington).

10.25 p.m.—“Walter” (Walter).

10.30 p.m.—“Wellington” (Wellington).

10.35 p.m.—“Walter” (Walter).

10.40 p.m.—“Wellington” (Wellington).

10.45 p.m.—“Walter” (Walter).

10.50 p.m.—“Wellington” (Wellington).

10.55 p.m.—“Walter” (Walter).

11.00 p.m.—“Wellington” (Wellington).

11.05 p.m.—“Walter” (Walter).

11.10 p.m.—“Wellington” (Wellington).

11.15 p.m.—“Walter” (Walter).

11.20 p.m.—“Wellington” (Wellington).

11.25 p.m.—“Walter” (Walter).

11.30 p.m.—“Wellington” (Wellington).

11.35 p.m.—“Walter” (Walter).

11.40 p.m.—“Wellington” (Wellington).

11.45 p.m.—“Walter” (Walter).

11.50 p.m.—“Wellington” (Wellington).

11.55 p.m.—“Walter” (Walter).

12.00 a.m.—“Wellington” (Wellington).

12.05 a.m.—“Walter” (Walter).

12.10 a.m.—“Wellington” (Wellington).

12.15 a.m.—“Walter” (Walter).

12.20 a.m.—“Wellington” (Wellington).

12.25 a.m.—“Walter” (Walter).

12.30 a.m.—“Wellington” (Wellington).

12.35 a.m.—“Walter” (Walter).

12.40 a.m.—“Wellington” (Wellington).

12.45 a.m.—“Walter” (Walter).

12.50 a.m.—“Wellington” (Wellington).

12.55 a.m.—“Walter” (Walter).

1.00 a.m.—“Wellington” (Wellington).

1.05 a.m.—“Walter” (Walter).

1.10 a.m.—“Wellington” (Wellington).

1.15 a.m.—“Walter” (Walter).

1.20 a.m.—“Wellington” (Wellington).

1.25 a.m.—“Walter” (Walter).

1.30 a.m.—“Wellington” (Wellington).

1.35 a.m.—“Walter” (Walter).

1.40 a.m.—“Wellington” (Wellington).

1.45 a.m.—“Walter” (Walter).

1.50 a.m.—“Wellington” (Wellington).

1.55 a.m.—“Walter” (Walter).

2.00 a.m.—“Wellington” (Wellington).

2.05 a.m.—“Walter” (Walter).

2.10 a.m.—“Wellington” (Wellington).

2.15 a.m.—“Walter” (Walter).

2.20 a.m.—“Wellington” (Wellington).

2.25 a.m.—“Walter” (Walter).

2.30 a.m.—“Wellington” (Wellington).

2.35 a.m.—“Walter” (Walter).

2.40 a.m.—“Wellington” (Wellington).

2.45 a.m.—“Walter” (Walter).

2.50 a.m.—“Wellington” (Wellington).

2.55 a.m.—“Walter” (Walter).

3.00 a.m.—“Wellington” (Wellington).

3.05 a.m.—“Walter” (Walter).

3.10 a.m.—“Wellington” (Wellington).

3.15 a.m.—“Walter” (Walter).

3.20 a.m.—“Wellington” (Wellington).

3.25 a.m.—“Walter” (Walter).

3.30 a.m.—“Wellington” (Wellington).

3.35 a.m.—“Walter” (Walter).

3.40 a.m.—“Wellington” (Wellington).

3.45 a.m.—“Walter” (Walter).

3.50 a.m.—“Wellington” (Wellington).

3.55 a.m.—“Walter” (Walter).

4.00 a.m.—“Wellington” (Wellington).

4.05 a.m.—“Walter” (Walter).

4.10 a.m.—“Wellington” (Wellington).

4.15 a.m.—“Walter” (Walter).

4.20 a.m.—“Wellington” (Wellington).

4.25 a.m.—“Walter” (Walter).

4.30 a.m.—“Wellington” (Wellington).

4.35 a.m.—“Walter” (Walter).

4.40 a.m.—“Wellington” (Wellington).

4.45 a.m.—“Walter” (Walter).

4.50 a.m.—“Wellington” (Wellington).

4.55 a.m.—“Walter” (Walter).

5.00 a.m.—“Wellington” (Wellington).

5.05 a.m.—“Walter” (Walter).

5.10 a.m.—“Wellington” (Wellington).

5.15 a.m.—“Walter” (Walter).

5.20 a.m.—“Wellington” (Wellington).

5.25 a.m.—“Walter” (Walter).

5.30 a.m.—“Wellington” (Wellington).

5.35 a.m.—“Walter” (Walter).

5.40 a.m.—“Wellington” (Wellington).

5.45 a.m.—“Walter” (Walter).

5.50 a.m.—“Wellington” (Wellington).

5.55 a.m.—“Walter” (Walter).

6.00 a.m.—“Wellington” (Wellington).

6.05 a.m.—“Walter” (Walter).

6.10 a.m.—“Wellington” (Wellington).

6.15 a.m.—“Walter” (Walter).

6.20 a.m.—“Wellington” (Wellington).

6.25 a.m.—“Walter” (Walter).

6.30 a.m.—“Wellington” (Wellington).

6.35 a.m.—“Walter” (Walter).

6.40 a.m.—“Wellington” (Wellington).

6.45 a.m.—“Walter” (Walter).

6.50 a.m.—“Wellington” (Wellington).

6.55 a.m.—“Walter” (Walter).

7.00 a.m.—“Wellington” (Wellington).

7.05 a.m.—“Walter” (Walter).

7.10 a.m.—“Wellington” (Wellington).

7.15 a.m.—“Walter” (Walter).

7.20 a.m.—“Wellington” (Wellington).

7.25 a.m.—“Walter” (Walter).

7.30 a.m.—“Wellington” (Wellington).

7.35 a.m.—“Walter” (Walter).

7.40 a.m.—“Wellington” (Wellington).

7.45 a.m.—“Walter” (Walter).

7.50 a.m.—“Wellington” (Wellington).

7.55 a.m.—“Walter” (Walter).

8.00 a.m.—“Wellington” (Wellington).

8.05 a.m.—“Walter” (Walter).

8.10 a.m.—“Wellington” (Wellington).

8.15 a.m.—“Walter” (Walter).

8.20 a.m.—“Wellington” (Wellington).

8.25 a.m.—“Walter” (Walter).

8.30 a.m.—“Wellington” (Wellington).

8.35 a.m.—“Walter” (Walter).

8.40 a.m.—“Wellington” (Wellington).

8.45 a.m.—“Walter” (Walter).

8.50 a.m.—“Wellington” (Wellington).

8.55 a.m.—“Walter” (Walter).

9.00 a.m.—“Wellington” (Wellington).

9.05 a.m.—“Walter” (Walter).

9.10 a.m.—“Wellington” (Wellington).

9.15 a.m.—“Walter” (Walter).

9.20 a.m.—“Wellington” (Wellington).

9.25 a.m.—“Walter” (Walter).

9.30 a.m.—“Wellington” (Wellington).

9.35 a.m.—“Walter” (Walter).

9.40 a.m.—“Wellington” (Wellington).

9.45 a.m.—“Walter” (Walter).

9.50 a.m.—“Wellington” (Wellington).

9.55 a.m.—“Walter” (Walter).

10.00 a.m.—“Wellington” (Wellington).

10.05 a.m.—“Walter” (Walter).

10.10 a.m.—“Wellington” (Wellington).

10.15 a.m.—“Walter” (Walter).

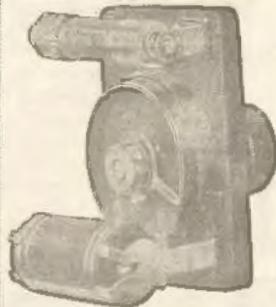
10.20 a.m.—“Wellington” (Wellington).

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
DETECTOR UNIT.

Built around the Carborundum Fixed Detector 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.: 640-652 Bourke St., Mel-
bourne.

4QG, BRISBANE

8.57 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"My Pal Jerry" (Rose). "How Could Red Riding Hood" (Randolph). "Somebody's Little Girl" (Davis).

9.11 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"In a Little Spanish Town" (Young). "Kitten on the Keys" Piano Solo (Confrey). "Freshie" (Greer).

9.25 p.m.—MR HENRY BREMNER, Soprano, "Dinner at the End of the Garden" (Strauss).

9.35 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"At Peace With the World" (Berlin). "Meadow Lark" (Florio).

"Talking to the Moon" (Rakette).

9.55 p.m.—JAMES RILEY, Tenor, "Love Sends a Little Gift of Roses" (Open-shaw).

9.59 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"Let's Get Old Together" (Nelson). "While We Danced Till Dawn" (Schuster).

9.45 p.m.—SINGING ARTISTS.

Doris Desmond will sing and dance, and Ivy Vanda will sing.

Sporting Notes by "Olympus".

9.53 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"She's Everybody's Sweetheart" (Rose). "I'm Climbing Mountain Mountain" (Brown).

"Shuts His Bag Again With His Boots, Room, Room" (Allans).

10.3 p.m.—"Argus" News Service; British Official Wireless News.

10.15 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"Do the Black Bottom With Me" (Meyer).

"Say That You Love Me" (Nichols).

"To Night's My Night With Baby" (Meyer).

10.22 p.m.—ANNA BURKE.

"A Little Bit of Heaven" (O. Ottrott).

10.27 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"The Savoy Medley of 'Medleys'" (Arr Somers).

"The Animal Fair" (La Forrester).

"Cheerful I Love You" (Goodman).

10.37 p.m.—CHARLES O'MARA,

"Patis."

10.41 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"No Foolin'" (Burch).

"Whisper Sh" (Bryant).

"Song, Katie, But Leave The Piano Alone" (Tracey).

10.45 p.m.—MARI BREMNER.

"In the Waters of Minnesota" (Lieurance).

10.55 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"Where Did You Get These Eyes" (Donaldson).

"Paradise Alley" (Archer).

"While The Years Go By" (Kahn).

11.8 p.m.—OUR GREAT THOUGHT.

"Prudence is a duty which we owe ourselves, and if we will be so much our own masters, we must be so much the world's masters, and it is natural to wonder if the world is deficient in discharging their duty to us; for when a man lays the foundation of his own rule, others too often are apt to build upon it."

FIELDING.

11.5 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"I Can't Forget" (Allan).

"Laughing in the Ivory" (Wendahl).

"Bye, Bye, Blackbird" (Dixon).

11.16 p.m.—CHARLES O'MARA.

"Little Shawl of Blue" (Thos. Hewitt).

11.20 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"We Don't Want to Get Married" (Stern).

"Perfume of the Past" (Mayron).

"Thinking of You" (Ash).

11.25 p.m.—ANNA BURKE.

"The New Bachelor Day" Words and Art Traditional.

11.34 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"There Ain't No Marvel in My Baby's Eyes" (Kahn).

"In a Little Garden" (Jula).

11.40 p.m.—GO! SAVE THE KING.

Thursday.

MIDDAY SESSION

1.00 p.m.—Market Report; Weather Information; "The Daily Mail" and "The Brisbane Standard" News.

1.29 p.m.—From Hotel Carlton Lunch Music played by Hotel Carlton Symphony Orchestra.

1.45 p.m.—From the Observatory: Standard Time Signal.

2.00 p.m.—Close Down.

AFTERNOON SESSION

3.35 p.m.—Programme of Music From the Studio: Due Art selection "Simple Arrangement"; (a) Aeolian Vocarium soloists; (a) Iris solo, "The Trumpet" (Biss); Mr. Horace Stevens, (b) violin and piano, "Sonata in A" (Franck); Misses Phyllis Allan and Ethel Holiday; Due Art selection "Never Ever" (Dover); (b) Aeolian Vocarium soloists; (a) Iris solo, "The Blacksmith" (Slater); Mr. John McEachern, (b) bell solo, "Le Cheval Breton" (Hermanns); Mr. E. V. Gulega, Due Art selection, "Lasers and Grass"; (c) Aeolian Vocarium soloists; (a) soprano solo, "Fairway Song" (Bennett); Miss Gladys Morris, (b) Ireland, "That's What You Love You"; (d) Donaldson, Don Parker and his band; Due Art selection, "Norwegian Dance" (Gregg).

4.15 p.m.—"Telegraph" News.

4.30 p.m.—Close Down.

EARLY EVENING SESSION

5.00 p.m.—"Daily Standard" News; Announcements.

5.30 p.m.—The Children's Session: Stories by Mrs. Jean Naylor.

5.40 p.m.—Market Report; Stock Reports.

5.50 p.m.—Weather News; Announcements.

5.45 p.m.—Standard Time Signal.

7.45 p.m.—Lecture: "A Talk on Books" by Mr. W. A. Bradstock (McLeods).

NIGHT SESSION

VOCAL RECITAL.

To-night's programme will comprise a vocal recital by Mrs. Jean Naylor (dramatic contralto). Associate artists will be Miss Mary McElroy and Marjorie Stuart, and Mr. Fred Homer.

PART I

5.45 p.m.—Contralto solo: (a) "It Was a Bird Were I" (Miller); (b) "A Long Is Life" (Del Riccio); (c) "Sing to Me, Sing" (Henry); Mrs. Jean Naylor: cello solo, "Hamilton"; (d) Jean (Judy) Miller in "Graville Ballet"; Miss Marjorie Stuart: cello solo, "Devout Love" (Sand); (e) Mr. Fred Homer: contralto solo, "The Lord in My Light" (Allison); Mrs. Jean Naylor: clarionet solo, "(Let Her Live)" (The Warriors' Song); (f) "Taylor"; Miss Jean McElroy: soprano solo, "April Moon"; Miss McElroy: cello solo, "The Moonstruck Drowses" (Lehmann); Mr. Fred Homer: (g) Miss Jean Naylor: tenor solo, "Ave Maria" (Millard); Mr. C. T. Birkbeck: contralto solo, "Nigra Spiritual Song"; Mrs. Jean Naylor: violin solo, selected; Mr. A. J. Cameron: cello solo, selected; (a) "Summer Night" (Grieg); (b) "The Moon Is On That We Two Were Mating" (Eduard Neuwirth); Mrs. Jean Naylor (with cello obligato by Miss Marjory Stuart).

PART II—BY SINGING ARTISTS.

March, "Royal Ambassador"; Mrs. McElroy: Hand Singsdale; contralto solo, "Woman, Give Your Heart" (Carter); Miss Whifford Hallam: Hawaiian solo, "Plantation Melodies"; Mr. Vine Aspasia: jazz one-step, "To-night's My Night With Baby"; Mrs. McKesson's Band: tenor solo, selected; Mr. C. T. Birkbeck: pianoforte solo, "(a) Petits Danse" (Prinetti); (b) "Humoresques du Concert" (Paderewski); Miss Edna Phillips: Hawaiian solo, "Ain't I a Good Thing"; and party, jazz waltz, "Ain't I a Good Thing"; Mrs. McKesson's Band: vocal quartet, "Tell Her I'm in Her So" (100 Proof); Mr. C. T. Birkbeck and Miss Whifford Hallam: Hawaiian trio, selected; Mr. Vincent Axleby and party, jazz waltz, "Blew Bye-Bye Blackbird"; Mrs. McKesson's Band.

5.05 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

SCL, ADELAIDE.

Thursday.

MORNING SESSION.

- 11.00 a.m.—G.P.O. Chimes.
11.15 a.m.—Bentalls on the "New Remodelling Scheme" and the "Automobile Reparade."
12.00 p.m.—"Advertiser" News Service.
12.30 p.m.—Market Reports.
1.00 p.m.—G.P.O. Chimes.
1.30 p.m.—Musical Programmes continued.
2.00 p.m.—G.P.O. Chimes and Close Down.

AFTERNOON SESSION.

- 3.00 p.m.—G.P.O. Chimes.
3.15 p.m.—Music from the Maple Leaf Cafe
Orchestra Selections.
3.30 p.m.—Talk by Mr. M. Leggatt.
3.45 p.m.—G.P.O. Chimes.
3.55 p.m.—Music from the Accents Cafe
Orchestra Selections.
4.00 p.m.—Regina Ammoniums.
4.00 p.m.—G.P.O. Chimes and Close Down.

EVENING SESSION.

- 4.30 p.m.—"Advertiser" News Service.
4.45 p.m.—Dinner Music by the Coburg Guards
Symphony Orchestra.
4.45 p.m.—Bedtime Stories.
5.00 p.m.—Market Reports.
5.15 p.m.—Feature Talk by Mr. A. M. Whit-
shear.
5.30 p.m.—G.P.O. Chimes.
5.45 p.m.—G.O. Orchestra.
5.55 p.m.—Baritone Solo, Mr. L. J. Weeks.
6.00 p.m.—Harmonica Interlude, Mr. Will
Runge.
6.15 p.m.—Saxophone Memorial Chair.
6.30 p.m.—Tenor solo, Mr. V. Rogers.
6.35 p.m.—Baritone solo, Mr. Seth Smith.
6.45 p.m.—Tenor solo, Mr. Vincent McMurray.
6.55 p.m.—Studio Orchestra.
7.00 p.m.—Soprano solo, Miss O. Tinger.
7.05 p.m.—Violin solo, Miss Lucette Fogli.
7.15 p.m.—Saxophone Memorial Chair.
7.20 p.m.—Harp solo, Mr. Seth Smith.
7.30 p.m.—Studio Orchestra.
8.00 p.m.—G.P.O. Chimes.
8.15 p.m.—Weather Report.
8.30 p.m.—Dinner's What? Report.
8.45 p.m.—"Advertiser" News Service.
8.55 p.m.—Harmonica Interlude, Mr. W. Runge.
9.00 p.m.—Tenor solo, Mr. Vincent McMurray.
9.15 p.m.—Soprano solo, Miss O. Tinger.
9.30 p.m.—Cello solo, Mr. Goldsworthy.
9.45 p.m.—Saxophone Memorial Choir.
10.00 p.m.—Baritone solo, Mr. L. J. Weeks.
10.15 p.m.—Studio Orchestra.
10.30 p.m.—Harmonica Interlude, Mr. W. Runge.
10.45 p.m.—Banjo solo, Mr. Seth Smith.
10.55 p.m.—G.P.O. Chimes.
11.00 p.m.—"Advertiser" News Service; An-
nouncements.
11.15 p.m.—Studio Orchestra.
11.20 p.m.—Tenor solo, Mr. Vincent McMurray.
11.25 p.m.—Soprano solo, Miss O. Tinger.
11.30 p.m.—Flute solo, Mr. A. V. Nease.
11.45 p.m.—Baritone solo, Mr. L. J. Weeks.
11.55 p.m.—Pianoforte solo, Mr. Tom King.
12.00 p.m.—Banjo solo, Mr. Seth Smith.
12.15 p.m.—Studio announcements.
12.30 p.m.—G.P.O. Chimes and Close Down.

Friday, June 10
2FC, SYDNEY.

MORNING AND MIDDAY SESSION.

- 12.00 a.m.—"Big Bell" and programme announce-
ments.
12.15 a.m.—Official weather forecast, rainfall,
temperature, astronomical memoranda, ship-
ping intelligence, mail service.
12.30 a.m.—Market Reports.
12.45 a.m.—Summary of "Splendour Morning
News" news service.
12.55 a.m.—A Talk on Home Cooking and
Recipes by Miss Ruth Furst.
12.55 a.m.—Ammoniums.

EDWARD ARNOLD LTD.

Oxford & Crown Streets

FOR RADIO ACCESSORIES

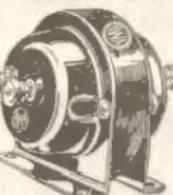


VALVES.

- U.X. 199 Radio
tron Valves .. 13/-
(as illustrated).



- U.X. 201A Radio-
tron Valves .. 11/-



- Philips B.406 .. 12/6
De Forest, D.L.4 13/6
De Jur Rheo (as
illustrated) .. 3/9
Emmco Rheo .. 2/6

VALVE SOCKETS.



- A.W.A. Trans-
formers, audio
frequency .. 18/-
Muter Trans-
formers, audio
frequency .. 15/-
Signal Trans-
formers, audio
frequency .. 21/-

Benjamin Spring Sockets, 5/-

Emmco Sockets .. 3/6

Metal Shell Sockets .. 1/6

Splendid Value in Radio Sets

5 VALVE NEUTRODYNE, complete in all details, including Swan Neck De Luxe Amplifier (wooden flare), double capacity "B" Batteries, Accumulator and Aerial. In floor cabinet 4ft. 2in. high, of polished Maple, Rosewood or Fumed Oak £50
With guarantee.

5 VALVE NEUTRODYNE, in table cabinet. Complete in all de-
tails as above £37/10/-

3 VALVE SET, complete in every detail, including Amplifier Junior loud speaker, double capacity Batteries and Accumulator, 201A Valves and Aerial Wire £23/10/-

SETS REWIRED TO ANY CIRCUIT AT MINIMUM COST.

12.55 a.m.—Ammoniums.

"ALL AMERICAN" TOROIDS

Led the Way at the Radio Exhibition
Win First, Second and Special Prize
in Multivalue Receiver Class.



Rauland-Lyric

A laboratory grade Audio Frequency Transformer made especially for music lovers, to provide absolutely faithful reproduction of those subtle refinements of tone quality which are perceived only by the trained musician. There is no distortion or loss of over-tones, no introduction of false harmonics. This transformer has received the plaudits of the world's foremost music critics and has won the approval of music lovers.

Type R500 \$1. each



NEW TYPE Standard Audios

These new type Standard Audio Transformers offer all the mechanical and electrical advantages of years of manufacturing experience combined with beauty and attractiveness. In addition to having the All-American feature of superior electrical design these new units are very desirable because of the good appearance provided by the shiny black shell and embossed gold-bronze name-plate.

The heavy steel shell scientifically shields the transformer to as to reduce inter-stage coupling effects.

The coils are vacuum impregnated, assembled in the shell which is then fitted with a special moisture excluding compound hermetically sealing the entire unit against all climatic conditions, thus preventing electrolysis and assuring long life.

Type R14, Ratio 3 to 1 30/- each

Type R15, Ratio 5 to 1 30/- each

Type R13, Ratio 10 to 1 30/- each



Power Amplifying (Push-Pull) Transformers

To secure great loud speaker volume even on distant stations, add to any set a stage of All-American power amplification. Tone quality is perfect because the signal current is divided between two valves which neutralize distortion.

Type R30, Input 39/6 each

Type R31, Output 39/6 each

Sole Agent:

O. H. O'BRIEN, (LATE O'BRIEN)

37.39 PITT ST., SYDNEY 516 COLLINS ST., MELBOURNE
W. E. PETERMAN, Perry House, Brisbane

- 11 noon—"Big Ben," Studio Music.
- 12.5 p.m.—Stock Exchange, first call.
- 12.5 p.m.—Studio Music.
- 12.59 p.m.—Rugby Wireless News.
- 12.30 p.m.—Marching music for the school children.
- 12.40 p.m.—Miss Kathleen Stollery, mezzo: "One Fleeting Hour" (Lee).
- 12.45 p.m.—Studio Music.
- 1.30 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 the school children.
- 1.40 p.m.—Miss Kathleen Stollery, mezzo: "Through You" (Forster).
- 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.—A Recital arranged by Rex de Cadres Diego.
- 3.30 p.m.—Marching music for the school children.
- 3.40 p.m.—From Farmer's Tea Rooms: Miss May Craven, mezzo: "Song of the Windmill" (Travers).
- 3.45 p.m.—A Talk from the Studio.
- 4 p.m.—From Farmer's Tea Rooms: Miss Eileen Moreau, soprano: "Forest Echoes" (Phillips).
- 4.45 p.m.—Mr. Will Bowyer, basso: "The King of Persia" (Pinault).
- 4.50 p.m.—Miss Eileen Jenkins, soprano.
- 4.55 p.m.—Studio Music.
- 4.20 p.m.—From Farmer's Tea Rooms: Miss May Craven, mezzo: "Twickenham Ferry" (Marshall).
- 4.25 p.m.—From the Studio:
- Mr. Will Bowyer, basso: "Coronation Song" (Edmonds).
- 4.30 p.m.—Studio Music.
- 4.35 p.m.—Miss Eileen Jenkins, soprano.
- 4.40 p.m.—From Farmer's Tea Rooms: Miss Eileen Moreau, soprano: "The Hallowed Hour" (Wood).
- 4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—Studio Music.
- 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" talk to the Children.
- 6.30 p.m.—A Serial Story.
- 6.40 p.m.—Dinner Music.
- 7 p.m.—"Big Ben."
- 7.15 p.m.—A short portion information by the 2FC Racing Committee.
- 7.10 p.m.—Delight's Market Reports (wool, wheat, stock).
- 7.18 p.m.—Fruit and vegetable markets.
- 7.20 p.m.—Weather and shipping intelligence.
- Stock Exchange.
- 7.25 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.45 p.m.—The Chimes of 2FC and programme announcements.
- 7.50 p.m.—"Big Ben."
- 7.55 p.m.—Silent Items.
- 8 p.m.—"Big Ben."
- From Faling's Concert Salons: A Piano forte Recital by Miss Florence Mankmeyer, the visiting Continental Pianist:
- (a) "Marche Militaire" (Schubert-Liszt),
- 8.8 p.m.—(b) "Scherzo Op. 51" (Chopin),
- 8.20 p.m.—(c) "Hungarian Rhapsody No. 12" (Liszt).
- 8.30 p.m.—From the Studio:
- Mr. W. F. Kay has another glimpse at Poverty Point.
- 8.45 p.m.—Mr. Cyril Monk, violin solo:
- (a) "Irish Air" (Alcock).
- (b) "Liebesfreud" (Kreisler).
- 8.54 p.m.—Mr. Harold Tollemache, baritone.
- 8.58 p.m.—Trumpet Management: A short Bridge Talk by Graham Kent.
- 9.10 p.m.—2FC Dance Band: conductor, Mr. Eric Pearce.
- 9.15 p.m.—Miss Celine Hooper: Songs at the Piano.

8.22 p.m.—Mr. Harold Tellemsche, baritone.
 8.25 p.m.—Mr. Cyril Mack, violin soloist.
 (a) "Carmen" (Almanzor).
 (b) "Spanish Dance" (Ferrari).
 9.15 p.m.—Miss Celine Hooper:
 Songs at the Plaza.
 10.45 p.m.—FROM HER MAJESTY'S THEATRE: The Extracts Music from "Tip Toes," featuring Henry Penn and Jack Wright in George Gershwin's jazz Rhapsody.
 10.45 p.m.—From the Studio:
 Mr. Harold Tellemsche, baritone.
 10.45 p.m.—S.Y.C. Dance Band.
 10.45 p.m.—Miss Celine Hooper:
 Songs at the Plaza.
 10.45 p.m.—Roaming the Elders: An attempt to relax nervous tensions.
 10.45 p.m.—S.Y.C. Dance Band will play dances numbers until 11 o'clock.
 11 p.m.—"Big Bell,"
 National Anthem.
 Close down.

3LO, MELBOURNE.

FRIDAY

12 noon—Time Signal. British Official Wireless News from Rugby, Reuters and the Australian Press Association cables. "Argus" news service, and other news services.
 12.15 p.m.—CAROLINE CAIRNDUFF, soprano, "Ah! Lo So!" (Mozart).
 "Doch Vierl" (Mozart).
 12.27 p.m.—STUDIO ORCHESTRA, "Balles in Taylors" (Gershwin).
 12.31 p.m.—"The Weather Information."
 12.45 p.m.—EUNICE GREGORY, Violin, "Air for G String" (Bach).
 "Waltz in A" (Brahms).
 12.50 p.m.—STUDIO ORCHESTRA, "Isle of Champagne" (Mozart).
 1 p.m.—CAPTAIN DONALD MACLEAN, Captain Bartholomew Sharp's amazing Voyage.
 1.15 p.m.—CAROLINE CAIRNDUFF, soprano, "Nina"—old Italian (Pergolesi).
 "Liebster, Liebster" (Scarlatti).
 1.20 p.m.—"The Weather Information."
 1.25 p.m.—TASMIN TIERMAN, 'cello, "Dreams of Love" (List).
 1.30 p.m.—INTERLUDE.
 MAXWELL CAREW, comedian, "Anxious".
 "Now would love to Miss Policeman".
 1.45 p.m.—STUDIO ORCHESTRA, "Une Promenade d' Martin" (Bande).
 1.55 p.m.—EUNICE GREGORY, Violin, "Hercy Beauty Della" (Ruckmann).
 "Lullaby" (Gretschmann).
 2 p.m.—Cameo sketch.
 ART DE SEVERE BUSINESS" Goethe.
 2 p.m.—STUDIO ORCHESTRA, "The Pearl Fishers" (Fetrau).
 2.10 p.m.—"NU FAIT," "Fashion Talk".
 2.20 p.m.—HERTH JORGENSEN, Voilla, "A Little Bit of Heaven".
 2.25 p.m.—AMES RILEY, Tenor, "Goodbyes" (Twit).
 "Joumey" (Barry).
 2.30 p.m.—STUDIO ORCHESTRA, "A musical Jigaw" (Kreisler).
 2.35 p.m.—MAX W. MURRAY, Chas O'Meara—The Mountains of Mourne" (French and Collette).
 "Alman Buck" "Millions" (Jack Maxxix).
 Recitation "The Devil's Tripp" (Pat O'Reilly).
 4 p.m.—AGNES TORRANCE, Flute, "The Rose of Erin" (McCartee).
 4.10 p.m.—AMES RILEY, tenor, "Lorraine" (Ondebson).
 "Trumpeter" (Dix).
 4.15 p.m.—STUDIO ORCHESTRA, "The Noble" (Oremans).
 4.25 p.m.—MAXWELL CAREW, comedian, "Absent".
 "Sunday Morning".
 4.30 p.m.—MRS. M. MAHOOD, "Art in Life" THE STUDY AND USE OF COLOR. In SUMMARY, we can understand intelligently what we see; understand what it is. This talk will deal with color organization in light; why we see color; how the iridescence of bubbles, shells, and butterfly wings is produced; what the Spectrum is colors perception; some results of color blind-



**Good News for
Radio Enthusiasts!**
BURGESS—
RADIO BATTERIES
*now
within the
reach of all*

Drastic Reduction in BURGESS RADIO BATTERIES

Now **26/- Only**

Leaders always in Battery quality, Burgess now leads Wireless Australia in Battery value.

These famous radio batteries, which are the standard of comparison throughout the world, are now available to all radio users at no more than the cost of ordinary dry cell batteries.

Don't buy just a battery. Ask for Burgess. Look for the distinctive black and white cover.

If your dealer is out of stock, write us direct giving dealer's name.

New System Telephones Pty. Ltd.,
 280 Castlereagh Street, Sydney

25 Queen's Bridge St.,
 Melbourne

Charles Street,
 Adelaide

Q'land Agents: Q'd Cycle & Motor Agency (Q.) Ltd.
 Creek & Adairds Sts., Brisbane, Q. S.E.

Brown

LOUD SPEAKER

THE WORLD'S STANDARD FOR
QUALITY

We have pleasure in announcing that the following types of Brown Loud Speakers and Headphones have been reduced in price:—

The celebrated Brown Loud Speakers and Headphones are British made throughout—labor, material and capital. Every detail of their manufacture is subject to the most rigorous scrutiny, and all instruments not reaching a predetermined standard of excellence are ruthlessly discarded.

NOT once, but a score of times, every Brown product is tested for imperfections, and, as a result, reaches a standard of workmanship which is probably unique.



Reduced to

H2 Model £2 18 6

H1 Model £6 15 0

HQ Model £7 15 0

Crystavox £7 15 0

F. Type Head-
phones £1 7 6

Other Types—

H4 Model £2 0 0

H3 Model £4 2 6

Cabinet Model, £8 10 0

Q. Model £21 0 0

A2 Type Head-
phones £2 10 0

Obtainable from all Radio Dealers

SOLE AGENTS:

NOYES BROS. (SYDNEY) LTD.

11 Watt St., 115 Clarence St., Perry House,
Newcastle SYDNEY

1.45 p.m.—"Herald" news service. Stock Exchange Information.
5 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.
Story Teller "BILLY BUNNY"
ELSIE BRADSHAW, piano.

1.30 p.m.—Answers to letters and birthday greetings.
5 p.m.—"ELSIE BRADSHAW."
Songs at the Piano.

5.30 p.m.—"BILLY BUNNY".
Has a story for the little ones.

6.30 p.m.—"ELSIE BRADSHAW".
Has two more little songs for the children.

6.14 p.m.—"BILLY BUNNY".
Old Friends.

6.30 p.m.—Official report of Newmarket Stock Sales. Number of tracks ordered for following weeks sales.

6.35 p.m.—"Argus" and "Herald" news service. Weather synopsis. Shipping Movements.

6.45 p.m.—Stock Exchange Information.

6.55 p.m.—Fish Market reports by J. R. Barrett Ltd. Rabbit Prices.

6.55 p.m.—River Reports.

6.55 p.m.—Market reports of Fruit, by the Victorian Fruiterers' Association, compiled by "The World's Fruitman" in "Old FRUITAH POPULAR PROGRAMME".

7.15 p.m.—Under the auspices of the Department of Agriculture, Mr. M. N. JOHNSTON, Senior Veterinary Officer, will speak on "Swine Fever".

7.30 p.m.—STUDIO ORCHESTRA.
Flight of the Birds.

7.40 p.m.—OMARA AND BURKE. Entertainers from the Emerald Isle.

ANNA BURKE:
"Barney Martin" (M. Now).

CHAS. O'MARA:
"The Welcome" (Theo. Davies).
Putten.

7.50 p.m.—STUDIO ORCHESTRA.

Tales of Hoffman" (Orenbach).

8 p.m.—LEW JAMES AND DODIE WOLFE:

"Musical Hall Oddities".

8.10 p.m.—COLLINGWOOD CITIZENS' BAND:

March, "The Jolly Tropper,"
One Step, "She was Wddy."

8.20 p.m.—ELSA STRALIA, Tenor:
"Song of Baromia" (Hull).
"Nirvana" (Adams).

8.27 p.m.—AGNES FORTUNE, Pianist:

A few minutes with Chapin.

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

CHILDREN: "Always look both ways before you cross a road, or before you pass in front of me behind a standing vehicle. Never run across a road without looking."

8.42 p.m.—STUDIO ORCHESTRA:

"Second Symphony"—2nd Movement (Beethoven).

8.52 p.m.—ELSA STRALIA AND MAXIM BRODI:

MAXIM BRODI:

"Scaramella" (Toselli).

"Memories of Long Ago" (Van).

ELSA STRALIA:

Selection, "Il Teatrino" (Verdi).

"Witches of Minnetonka" (Laurence).

Duet, "In a Gondola" (Hardy).

8.57 p.m.—Announcements.

9.10 p.m.—COLLINGWOOD CITIZENS' BAND:

(Gavotte, "Priscilla").

9.15 p.m.—MR. H. K. LOVE:

Technician.

9.20 p.m.—BILLY TOWER:

"Mr. Sunray Breakfast Pearl" (Irish).

"Out in the Stilly Night" (Moore).

9.22 p.m.—STUDIO ORCHESTRA:

"Second Symphony"—2nd Movement (Beethoven).

9.40 p.m.—OLGA SMITH, Soprano:

"The Wren,"

"Spargi il fiorino."

9.45 p.m.—MR. C. J. WILLIAMS will discuss Tommorrow's Wrestling.

9.57 p.m.—COLLINGWOOD CITIZENS' BAND:

Band Solo, "Capriccioso."

Soloist, Mr. H. Connell.

7.00 p.m.—Meteorological information. Read Notes supplied by the Royal Victorian Automobile Club of Victoria.
10.15 p.m.—"THE FUTUREISTS" present their Radio Revue.

"BROADCAST RITES."

An OPENING CHORUS by the Company, A jazz pattern and stirring section in Counter, The Judge Gis Dawson
The Barrister Cyril Northcote
The Washerman Ira Vanda
Hortic Hector, the Heartless Heart-breaker G. W. Dommel
IRA VANDA will sing to you.
DESMAL DESMOND is nearly in a happy mood.

A FINALE by the Company. British Official Wireless news from Rugby.

10.45 p.m.—OLEA SMITH, author.

"One Voice."

11.15 p.m.—GARDIGAN. MR. H. W. WOLFE, Sporting Editor of the "Argus" and "Advertiser," will speak on Saturday's Races.

11.30 p.m.—COLLINGWOOD CITIZENS' BAND:

Duet, "Jennifer and Mary,"—for 2 Concerts.

11.45 p.m.—OUR GREAT THOUGHT.

"There is no living in our day,
The days are less, lamenting over lost days;
Are you not earnest? since this very minute,
What can you do or dream you can begin
it."

Baldness has genius, power, and magic in it."

21.15 p.m.—JOE ABENSON AND HIS SYSCOPATING SYMPHONISTS:

"Sing On, Men! King!" (Owens).

"Just a Bird's-Eye View" (Desmond).

"A Cup of Coffee, a Sandwich, and You" (Menzel).

"Insanity's Landry" (Davis).

"Baby Face" (Albee).

"Ring a Ling—Walls of the Bell" (Reith).

"Madame" (Lemon).

"The More We are Together" (Campbell).

"Hoffmeyer" (Piano Solo (Dargy)).

"Let's All Harry Ford" (Leslie).

"I'm on My War Horse" (Berlin).

"The Original Black Bottom" (Henderson).

"Hello, Oliva" (Burt).

"Hello Little Girl of My Dreams" (Clark).

"Sunday" (Miller).

"By the Sign of a Rose" (Fields).

21.45 p.m.—GOD SAVE THE KING.

Saturday, June 11

2FC, SYDNEY

MING, MIDDAY AND AFTERNOON SESSION.

11.00 a.m.—"Big Ben" and programme announcements.

11.00 a.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, ship positions, international news service.

11.15 a.m.—Market Reports.

11.20 a.m.—Summary of "Sydney Morning Herald" news service.

11.35 a.m.—Cakes.

11.40 a.m.—A Talk on Gardening by "Red Gum."

11.45 a.m.—Announcements.

12.00 noon—"Big Ben," Studio Music.

12.00 p.m.—Stock Exchange, first call.

12.00 p.m.—Studio Music.

12.05 p.m.—Rugby Wireless News.

12.30 p.m.—Studio Music.

1.00 p.m.—"Big Ben," Weather Intelligence.

1.00 p.m.—"Evening News," midday news service.

Races from the A.J.C. meeting at Randwick will be described by the running, direct from the course by the 220 "Rating Committee."

Reporting results of Football matches, Soccer, Grade Crick, and Golf and Tennis will be given.

Tunes from the "Street Musicians."

The Westworth City Dance Orchestra, under the baton of Mr. Frederick Leighton, will be given at regular intervals.

*Half the cost—
because double the life*

Burgess Batteries

Meet Every Need

Your wireless deserves the best. How many exquisite sets are spoiled to listeners-in by the foolish economy of a bad battery! Only a Burgess can give just that clear strength and purity which win the praise of your guests. Long life adds to efficiency. Daring adventurers have taken the Burgess Battery above the clouds, beneath the sea, among the ice-floes of the Arctic and into the blazing heat of New Guinea jungles. Each time the Burgess stood the test triumphantly—and it will do the same for you.

Buy right and you must buy Burgess!

The Burgess Line takes care of every Radio Battery demand. Burgess "A's" are especially designed for radio filament lighting, and have remarkably long life. Burgess "B's" meet every need—from the smallest size for portable sets up to oversize for especially heavy current drains—horizontal type or vertical type, whichever is preferred. The over-size 10308, gives the greatest power and has the longest life. Burgess "C's" are for dependable "grid bias duty." With Burgess Radio Batteries you know that you get quality and service, the two essentials.

Now Reduced to 26/-

Obtainable Only from High-class Dealers.

WHOLESALE:

NEW SYSTEM TELEPHONES PTY. LTD.

280 Castlereagh Street, Sydney.

27 Queen's Bridge Street, Melbourne

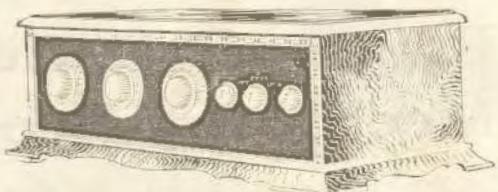
Charles Street, Adelaide

Queensland—
Canada Cycle & Motor Agency (Q.)
Creek and Adelaide Streets,
Brisbane.



N.E.T. 2.2.

A PERFECT VALVE RECEIVING SET



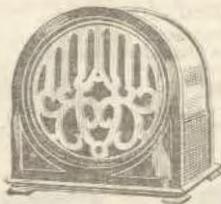
Farmer's 5-Valve Deresnadyne Receiver

In Handsome Inlaid Walnut Cabinet

Farmer's 5-Valve "Deresnadyne" Receiver is contained in a unique cabinet of walnut, in handsome inlaid designs. It is easy to control, and is unsurpassed for purity of tone.

The "Deresnadyne" is sold complete with the following accessories; "Amplion Dragon" Loud Speaker, "Clyde" 6-Volt Accumulator, 3 Volton 45-Volt "B" Batteries, Lightning Arrester, 5 Radiotron UX201 A. Valves, and **£58/-** Aerial Equipment.

Reliable Cone and Horn Type Loud Speakers



"Amplion" Cone Loud Speaker. A feature is its life-like reproduction of the human voice, together with its ease of reproducing both near and distant stations. Price £8.8/-

"Altwater Kent" Loud Speaker. A speaker of the horn type, with a dull finish; wonderful tone, and capable of handling any volume desired. Price £6.10/-

Wireless Department, Ground Floor, Market Street

FARMER'S, SYDNEY

Farmer's do not pay carriage on Wireless Goods.

4.30 p.m.—A Complete Resume of the afternoon's sporting events.
5 p.m.—"Big Ben."
Close down.

EARLY EVENING SESSION

5.45 p.m.—The Chimes of 2FC.
6.00 p.m.—The "Hello Man" talks to the children.
6.30 p.m.—A Serial Story.
6.40 p.m.—Dinner Music.
7 p.m.—"Big Ben."
Late Sporting Information.
7.15 p.m.—Weather Intelligence.
7.18 p.m.—"Evening News" late news service.
7.30 p.m.—Studio Music.

NIGHT SESSION

7.45 p.m.—The Chimes of 2FC, and knockeings.
7.50 p.m.—Studio Items.
8 p.m.—"Big Ben."
8.15 p.m.—The Crystal Palace, Thorsday, Sydney: Orchestra under the baton of Mr. Harry Stone.
8.10 p.m.—From the Studio:
Miss Virginia Bassetti, contralto:
"Easter Hymn" (Bridge).
8.14 p.m.—Miss Jean Gerrard:
Items on the Melo Piano.
8.20 p.m.—FROM THE CRYSTAL PALACE THEATRE, SYDNEY:
Orchestral items incidental to the film, "The Volga Boatman."
The Russian Choir will be heard in the song, "The Volga Boatman." Mr. Berndt Harris, basso and Miss Dorothy Hawtree will sing "Petrushka."

8.40 p.m.—From Paddington's Concert Saloon:
Doris, the Continental Pianist, Miss Florence Mankmeyer,
"Rhapsody No." (List).
8.48 a.m.—Fragments from Operas, "Victorina" (Menkemeyer).
8.55 p.m.—"Valse de Concert."

9.05 p.m.—From the Studio:
Miss Virginia Bassetti, contralto:

(a) "We'd better hide a wee" (Old Scotch).
(b) "Ships of my Dreams" (Stephenson).
9.14 p.m.—Win and Windie, English entertainers.

9.20 p.m.—Miss Dorothy Dewar, soprano.

9.25 p.m.—Mr. Scott Alexander will present a novel burlesque prepared by Caddington Ball, entitled
"O ME—O MAR—OH MARRY ME!"
A travesty on Omar Khayyam.

9.34 p.m.—Miss Virginia Bassetti, contralto:
"A String of Pearls" (Phillips).

9.38 p.m.—Win and Windie, English entertainers.

9.46 p.m.—BROADCAST FROM THE CRYSTAL PALACE THEATRE, SYDNEY:
Orchestral Items.

9.50 p.m.—From the Studio:
Miss Dorothy Dewar, soprano.

9.55 p.m.—"Big Ben."
Jean Gerrard: Items on the Melo Piano.

10.05 p.m.—Win and Windie, English entertainers.

10.16 p.m.—Miss Dorothy Dewar, soprano.

10.25 p.m.—CRYSTAL PALACE ORCHESTRA.

10.30 p.m.—From the Studio: An Original Radio Comedy, written by Caddington Ball, entitled "The Mystery of the Closed House," Scene, An Old Country Mansion.

Character: Mrs. Marshbanks, Miss Ruth Wilson.
Detective: Harry, Mr. Scott Alexander.

10.45 p.m.—Broadcast from the Wentworth Hotel, Sydney: The New Wentworth Cafe Symphonic Dance Orchestra under the baton of Mr. Frederick Leighton.

11 p.m.—"Big Ben."
Late news and announcements.

11.15 p.m.—The Wentworth Cafe Dance Orchestra under 11.45 p.m.

11.45 p.m.—"Big Ben."
National Anthem.

Close down.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

- 11 a.m.—STUDIO ORCHESTRA:
"The Call of Bengal" (Benedict).
11:15 a.m.—O'MARA AND BURKE:
Anna Burke, "If Evermore I grow old on the
Seaside Shore" (E. Ball).
Chris O'Mara, "Vivian".
11:20 a.m.—DOROTHY ROXBOROUGH, violin:
"Venetian Gondola" (Hofmann).
"Song Without Words" (Hansen).
11:27 a.m.—STUDIO ORCHESTRA:
"Desert Suite" (Gruen).
11:37 a.m.—JAMES RILEY:
"Mother of Mine" (Tessell).
"It's a Charming Girl I Love" (Benedict).
11:44 a.m.—AGNES FORTUNE, piano:
"Dancing Doll" (Feldzil).
11:50 a.m.—STUDIO ORCHESTRA:
"The Little Parasol" (Benedict).
12 noon—Time Signal, British official wireless news from Radio Australia's and the
Australian Press Association cables.
Argus news service.
12:20 p.m.—STUDIO ORCHESTRA:
"The Singers" (Benedict).
12:30 p.m.—LEW JAMES AND DODIE
WOLFE:
Massal Hall Odeonies.
12:40 p.m.—Stock Exchange information.
12:45 p.m.—MAXWELL CAREW, comedian:
Humoristics.
12:50 p.m.—STUDIO ORCHESTRA:
"The Merry Pavilion" (Laurier).
1 p.m.—THE FUTURISTS present their
Radio Revue.
"WAVELENGTHS."

The company sing an opening chorus. Dennis Demond and Cyril Northeast in a fresh dimension. Guy Dawson will whisper words of love to Ira Vanda. A sketchette by Cyril Northeast. Guy Dawson, and Cyril Northeast. Ira Vanda sings a song. Dennis Demond in a dismal corner. A finale.

1:30 p.m.—Meteorological information. Shipping intelligence. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports.

2:25 p.m.—MYRTLE ROBERTSON, violin:
"Sonata" (Handel).

1:30 p.m.—JAMES BILCEY, singer:
"The Lark New Leaves" (Barton).
"Dreams" (Bresliski).

1:40 p.m.—C. RICHARD CHUGG, flute:
"By the River" (Moor).

1:47 p.m.—STUDIO ORCHESTRA:
"Romance" (Carmina White).

2 p.m.—Description of the Malvern Hurdle, 2 miles, Williamstown Races, by "Market," of the "Sporting Globe".

2 p.m.—Close down.

AFTERNOON SESSION.

JOE ARMOND AND HIS SYNCOPATING SYMPHONISTS.

2:30 p.m.—Description of Juvenile Handicap, 5 furlooms, Williamstown Races, by "Market," of the "Sporting Globe".

2:40 p.m.—Close down.

2:45 p.m.—LEAGUE FOOTBALL, Melbourne v. North Melbourne, Melbourne. Description by Mr. Ted McGregor.

3 p.m.—JOE ARMOND AND HIS SYNCOPATING SYMPHONISTS:
"For Lovers" (Adams).
"Every Little Thing" (Spencer).
"The Sailor and Dulah Melody" (Grey).
3:10 p.m.—Description of Part Philip Hurdle Race, 3 miles, Williamstown Races, by "Market," of the "Sporting Globe".

Value in Batteries

The popularity of a Radio Battery depends purely on the value received for the money invested. This is the chief reason for the universal demand for Ever-Ready, because the purchase of one of these fresh, full-energy Radio Batteries is undoubtedly an investment in better reception.

And, of course, there is 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, 2½ x 6½. 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 6
Large size, type WP, 31.5 volt	16 -
Large size, type WP, 42 volt	21 -
Extra large size, type WP, 42 volt	28 6
Super Service, 42 volt	28 6

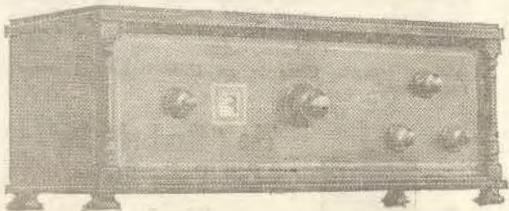
If unobtainable locally, write for address of nearest source of supply to

The Ever-Ready Co. (Gt. Britain) Ltd.

163 Pitt Street n SYDNEY

NEW STOCKS HERE

ex "S.S. Pappanui"



Now is your opportunity!

D.J. SUPER-SIX with ONE DIAL

for £4:10:0 deposit

The "D.J. Super-Six" sold out almost immediately it was released. Deliveries have been expedited, and we again offer this wonderful Super-Six with one dial control for £45 cash or £4/10/- deposit—the balance at 17/3 weekly for one year.

The "D.J. Super-Six" is a powerful King Quality Neutrodyne, complete with speaker, valves, aerial equipment—everything ready to instal. It is enclosed in a handsome maple case 26½ inches long, 10½ inches wide, and 10½ inches high.

Test the absolute simplicity of the one dial control yourself, at our Radio Department, 22 York Street. You will be amazed. Turn the dial slowly and hear in succession 2FC, 2BL, 3LO, 1YA, 4QG—in fact all the Australasian stations working on short wave lengths! Each one comes through clearly—there is no distortion through inaccurate tuning.

Now is your opportunity. Secure early before this shipment, too, is sold out!

DAVID JONES'

FOR SERVICE

SYDNEY

- 5.15 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "You've Got to Black Shuffles" (Spacial), "I've Got the Girl" (Donaldson), "There Ain't No Mayin' in Ma Baby's Eyes" (Kahn).
 - 4.30 p.m.—LEAGUE FOOTBALL, Melbourne v. North Melbourne, at Melbourne. Quarter time. Description by Mr. Rod McGregor.
 - 5.30 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "Kentucky Lullaby" (Miller); "The Village Blacksmith Owes the Village Now" (Moore), "I'm Longing for You" (Hutchinson), "That's Why I Love You" (Donaldson).
 - 5.45 p.m.—Description of Williamstown Steamer, 2 miles, Williamstown Races, by "Musket," of the "Sporting Globe."
 - 5.55 p.m.—Ladies' Hockey Match, Albert Cricket Ground. Description by Miss Valentine Leaper.
 - 6 p.m.—LEAGUE FOOTBALL, Melbourne v. North Melbourne, at Melbourne. Half time. Description by Mr. Rod McGregor.
 - 1.30 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "Talk in the Sun, Hang out the Moon" (Words).
 - "I've Been Waiting My Dreams Over You" (O'Hagan).
 - 4.15 p.m.—Description of Point Cook Handicap, 1½ miles, Williamstown Races, by "Musket," of the "Sporting Globe."
 - 4.20 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS: "Hi, Ho, the Merry" (Woods), "Me Too-Ho, Ho-Ho, Ha" (Brown).
 - 4.25 p.m.—LADIES' HOCKEY MATCH, Albert Cricket Ground. Description by Miss Valentine Leaper.
 - 4.35 p.m.—LEAGUE FOOTBALL, Melbourne v. North Melbourne, at Melbourne. Three-quarter time. Description by Mr. Rod McGregor.
 - 4.45 p.m.—Description of Esplanade Water, 1 mile, Williamstown Races, by "Musket," of the "Sporting Globe."
 - 4.55 p.m.—"Herald" news service. Stock Exchange information.
 - 5 p.m.—LEAGUE FOOTBALL, Melbourne v. North Melbourne, at Melbourne. Final scores, by Mr. Rod McGregor.
 - 5.15 p.m.—Close down.
- EVENING SESSION.**
- CHILDREN'S HOUR.**
- 6.00 p.m.—Sporting results.
 - 6.10 p.m.—Answers to letters and birthday greetings.
 - 6.15 p.m.—HAROLD COLLIER, mouth organ.
 - 6.30 p.m.—LITTLE MISS KOOKABURRA is going to tell the story of Baby Bustling to her little Kookaburra-children.
 - 6.45 p.m.—CAPTAIN DONALD MACLEAN: "Captain Kid."
 - 6.50 p.m.—HAROLD COLLIER, mouth organ.
 - 6.55 p.m.—"Arras" and "Herald" news service. Weather synopsis. Shipping movements.
 - 6.47 p.m.—Stock Exchange information.
 - 6.55 p.m.—Pub market reports, by J. R. Horner, Ltd. Rabbit prices.
 - 6.55 p.m.—River reports.
 - 6.58 p.m.—Market reports by the Victorian Producers' Co-operative Company, Ltd. Newmarket sheep sales. Poultry, grain, hay, straw, fats, dairy produce, potatoes and onions.
 - 7.0 p.m.—Market reports of fruit, by the Victorian Fruiturers' Association, compiled by "The Fruit World," exclusive to D.J.

NIGHT SESSION.

- Announcer — MAURICE BUDLEY
 Accompanist — AGNES FORTUNE
 11 p.m.—DR. BROOKIE NICHOLLS: A
 trapeze in the North Island, New Zealand. "The Adventures of a Walking Stick."
 12.15 p.m.—MR. V. CHAPMAN:
 "There's a Groom."
 12.30 p.m.—DR. LEACH:
 "Grandpas and grandmas."
 1.15 p.m.—ST. VINCENT DE PAUL'S BAND:
 "Melodious Limericks."
 1.30 p.m.—ELIA STRALIA AND MARTIN
 KROOD:
 Maria Brink, "Vesper Boatman" (Bulgarian).
 "Parrot" (Portuguese).
 Alice Shipton, "My Little Lad" (Philippines).
 And, "I Love the Moon" (Greece).
 2.15 p.m.—ST. VINCENT DE PAUL'S BAND:
 "Arias, Oh... Melodious Limericks."
 3.15 p.m.—Sofie Aranyi:
 "Mahan, Legend" (Hungary).
 "John II—Dance" (W. d. Janos).
 "Bar Bevany himself went wild to odds"—
 (Hungarian poem).
 4.15 p.m.—MR. NORMAN MC GOWAN will give
 a description of the WRESTLING MATCH
 at the Melbourne Stadium.
 4.30 p.m.—ST. VINCENT DE PAUL'S
 BAND:
 "Songs of Italian Opera."
 5.00 p.m.—AROFF ARNAV:
 "Adieu" (Belarusian (Russia)).
 "Praesovers" (Tiraneado).
 5.30 p.m.—"THE FUTURISTS" present their
 Ballet Revue.
 RANDOM RUMOURS.
 An opening ceremony by the Company:
 Ira Vanda takes the top prize for singing.
 A whistlette, "Oh, my, the way," Ira Vanda,
 (as Dusore and Gery Norvaline),
 General Desordine continues on his dismal
 way.
 Ira Vanda and Gery Dawson win a few
 rounds of love to each other.
 The Company in a finale.
 6.12 p.m.—Late sporting results. British af-
 fected wireless news. Announcement.
 6.30 p.m.—ST. VINCENT DE PAUL'S
 BAND:
 "Magnificent,"
 "Pamela Pramenta."
 7.00 p.m.—THE ROYAL AUTOMOBILE CLUB
 OF VICTORIA'S SATURDAY MESSAGE
 FOR TO-DAY—FOR MOTORISTS:
 "Remember your car through traffic may
 result in an accident to you. In dense
 traffic keep in line and await your turn."
 7.15 p.m.—JOE AIRDSON AND HIS SYNCOP-
 PATING SYMPHONISTS:
 "On the Biscay" (Rich).
 "By the Waters of Minnetonka" (Lear-
 onceau).
 "That's My Girl" (Davis).
 "I Want a Pardon for Daddy" (Roth).
 "St. Louis Blues" (Handy).
 "Hi, Ho, the Merry" (Brown).
 "You Need Somebody to Love" (Olson).
 "Calm Havanna" (Santana).
 "Sleeping in Society" (Akst).
 "Mouhawk" (Urbach).
 "Losing the Plot" (Piano solo). (Con-
 vey).
 "Speech" (Desmond).
 "It Makes You Happy" (Desmond).
 "Magnificent" (Nabokov).
 "How Could Red Riding Hood" (Randolph).
 "Cap' Hand, Here Comes Charlie" (Meyer).
 "While the Years Go Drifting By" (Kahn).
 "Some Other Bird Wanted a Mate" (Bryan).
 "Midnight on the Gangway" (Wallace).
 8.45 p.m.—GOD SAVE THE KING.

Hear them all perfectly on the
ASTOR RADIO 5

ASTOR GUARANTEE

We unconditionally guarantee
 That the "Astor Five" will perform any other radio
 receiver made - regardless of price or number of
 valves used.

And further that the "Astor Five" will receive inter-
 state broadcast stations of full band speech intensity
 in the cities or country - regardless of proximity to
 local stations.

We assure you that the "Astor Five" will make good on the
 guarantee or you will receive your money back -
 you to be the judge.

Cash Price £26-
 Selected Accessories £11-14-10
 Speakers from £2.

Use
ARMAX BATTERIES
 For Best Results.

Distributors to the Trade in New South Wales
 and Queensland:

Manufacturers' Products Pty. Ltd.
 Challis House, Martin Place, . SYDNEY
 Telephone BW 1328

Slingsby & Coles

LIMITED

Under Central Station,
482 PITT STREET, SYDNEY
THE RELIABLE RADIO
HOUSE.

2-Valve Supertone Set, complete, with small speaker.
Price £10/10/- Cash

Terms Arranged.

HEADPHONES NEW SYSTEM

Headphones, New System, 500 pair to be sold. Not 35/- per pair, but Only 15/- pr.

All Guaranteed.

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 Glyde Batteries.

Kids. Meter Mfg. Co., "Emanco."

Raprade Condensers, Jekins and
Fixed Rheos.

Alrmine Rheos, Pots., Special Coils
and Loops.

Neutron Crystals, Burnet Phones.
Prompt Shipments from Sydney.

We represent 50 Foreign Radio
Manufacturers.

Write for Details List.

Surplus Stocks sold Internat.

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.

A.D. (LAIDLAW)---Too much trouble for you. Purchase Carbonsoles, which will last for 12 months without attention. Rechargeable batteries.

A.S. (LUDCOMBE)---Increase the size of primary coil and bring each coil closer together.

I.J.A. (MT. BARKER, S.A.)---See this week's "Wireless Weekly." You are not tuning correctly.

C.F.G. (IPSWICH)---I can't discuss the circuits of other magazines. See next week's "Wireless Weekly" for the Solodyne; a wonderful 5 valves.

W.H.R. (ALEXANDRIA)---Rheostats O.K. Resistors primaries of Neotroformers.

H.E.W. (WESTON)---The Neotrodyne, NONAME (BALGOWNIE)---Add one stage only.

D.S.W. (SUTHERLAND)---Try for yourself.

S.L.W. (PETERSTAM)---If equipped, the Collier chassis will charge B. batteries of the accompanying type.

L.H. (TEMPLE)---I don't know.

L.I.L. (MULLALIEY)---Will let you know later.

L.G. (PENNANT HILLS)---Crystal is not suitable. Increase plate voltage.

B.W. (CINCINNATI)---See the first issue of "The New Radio."

V.H.W. (AHNCLIFFE)---Radio Inspector, Castlemore St., near Bethurst St., Sydney.

E.F. (HATFIELD)---Yes, but wait and I'll show you how to make a B. battery eliminator using this article.

A.W.W. (ANNANDALE)---Your friend is wrong. The sulphur in your trouble—too much capacity.

V.B. (LONGREACH, Q.)---Install a radiator in series with the leads from the mains testing the plate resistors. Build a Neotrodyne. Aerial is too long—cut off 30 feet.

J.H. (BANKSTOWN)---Yes, your suggestion is good. The other matter will be rewritten shortly.

A.H.M.C.N. (BRISBANE)---(1) Yes; (2) Probably; (3) World not guarantee it; (4) and (5). See "Wireless Weekly" 7/1/27.

J.H.L. (TURNOFORD, Q.)---You have already tested your valve. Lower your B. battery until squeal disappears. Then note the distances between the R.F. transformers. Space them a little further apart. Now bring up B. battery. The difference between valves is doubtful.

H.H. (BRISBANE)---All your suggestions great. Let me congratulate you on your installation. Let me know how you get on.

E.B. (FELMORO)---Wait on. The materials are not yet available.

T.Y.R. (CHIENDERS)---Watch the wiring under the dashboard and note that neutroformers are not connected with each other personally.

A.H.W. (NEBRISHAW)---You may have seen a reputable radio dealer. It is hard for me here to diagnose after all your own good work. Are you sure the B. battery is reaching the plate of the R.F. valve?

A.C. (CAIRNS, Q.)---I don't like the principle at all. Try Tantalum instead of aluminum.

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 produce 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.P.O.,
Sydney.

'Phone: Pet. 1045 & X 8149.



Registered Trade Mark.

Published by Arthur William Watt, of "Poltakstone," Lavender Street, Lavender Bay, for the Proprietors, Wireless Newspapers Limited, 51 Castlereagh Street, Sydney; and printed by Marchant & Co., Ltd., 84a Goulburn Street, Sydney.

The Editors will be glad to consider Technical and Technical Notes of interest to Australian Readers. All Manuscripts and Illustrations sent to the Editors are returned, although the greatest care will be taken in return unsuitable matter. If accompanied by stamp, the Editor cannot accept responsibility for its safe return.

Subscription rates.—Twelve months (52 issues), 13/- post free. Six months, (26 issues), 6/6 post free. Single copies, 6d. each, or post free, 4d. Subscriptions should be addressed to Wireless Newspapers Ltd., at 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., Dudley House, Southampton Street Strand, W.C.2.

"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.

There's an A-WA Radiola to suit Every Purse



Radiola 4.
Price Complete £28/5/-



Radiola Standard 6
Price Complete £45.



Radiola Senior 6
Price Complete £65.



Radiola Super 8
Price Complete
£115.



Radiola Super G.
Price Complete £120.

TRIED TESTED PERFECTED

With all the Latest Improvements
Insured by AWA Leadership—
plus Public Approval.

*There's a Radiola to Suit Every Purse
from £28 to £120*

A wonderful range of 4, 6, and 8 Valve Radiolas including the Radiola Standard 6, a Superheterodyne Broadcast Receiver at £45, entirely complete with all accessories including Amplion Loud Speaker.

Radiola Superheterodyne Receivers are guaranteed to give Interstate Reception on Average Aerial in either Town or Country Districts without Interference.

After Sales-Service by the Company's Authorised Radiola Dealers throughout the State.

TERMS : Radiola Standard 6,
£9 Deposit, and Monthly Payments of £3/5/4

Demonstrations at all Authorised~
Radiola Dealers or at—

Amalgamated Wireless

(Australia) Ltd.

"Wireless House"
47 YORK STREET
SYDNEY



Radiola

An Amplion Masterpiece



AMPLION

CONE

PRICE, £8/8/-

The AMPLION CONE unit is also supplied without cabinet, for incorporating in radio sets. Prices on application.



**Radiolux
AMPLION**

Available in two sizes and five distinctive finishes, from £5 to £9.

THE leadership of AMPLION was never more firmly established than at the present day, when the critical ear, as well as the critical eye, judges the merits of a loud speaker.

Compare either of these AMPLION Loud Speakers with any contemporary instruments and realise for yourself the plain truth of the statement "AMPLION STILL LEADS."

Every AMPLION carries a service guarantee which infallibly ensures satisfaction.

AMPLION

THE AMPLION CONE is the latest addition to the AMPLION line. It has the following outstanding features:

An **adjustable** unit of improved type, remarkably sensitive and efficient, yet robust.

A cone diaphragm, **made, not of paper**, but of **strong seamless material**, acoustically correct and entirely impervious to changes in temperature and climate—a vital point in Australia.

A system of construction, which possesses all the qualities inherent in Cone Speakers, without any of the common defects, thus affording extraordinarily life-like and natural results.

A carefully-considered and well-balanced design such as to eliminate the necessity for a special amplifier; in effect the AMPLION CONE gives **on any ordinary receiving set**—remarkable fidelity in reproduction.

The AMPLION CONE is fully protected by world patents, the Australian rights to which have been acquired by Amplion (Asia) Ltd.

RADIOLUX AMPLION, more than any other loud speaker, possesses those properties which make for the perfect reproduction of musical tones. The clear high tones of the violin, the low, throbbing notes of the 'cello are brought out in all their purity, with a mellowness that is surprisingly natural.

The famous AMPLION Loud Speakers are obtainable from all radio manufacturers and dealers throughout Australasia.