

# WIRELESS WEEKLY

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VOLUME 10

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NUMBER 4

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Friday, May 20, 1927.

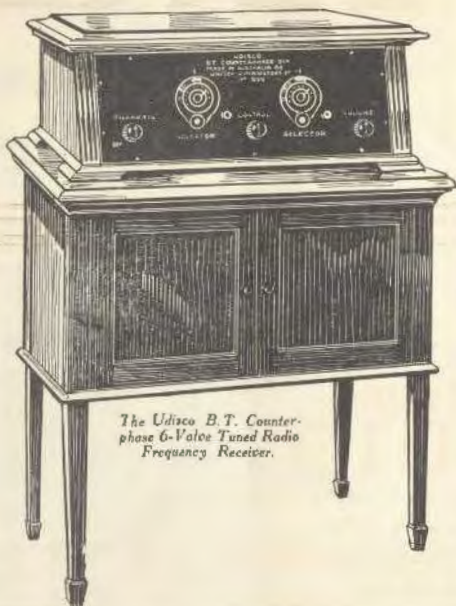
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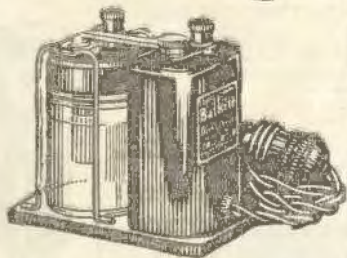
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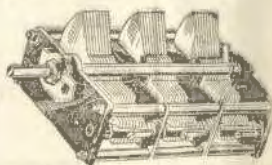
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# WIRELESS WEEKLY

VOL. 16, No. 4.

FRIDAY, 20th MAY, 1921.

## *The March of Science*

SINCE the first systematic gathering and distribution of knowledge in the days of Aristotle at Alexandria, there has been a steady intellectual progress in mankind which to-day has become an insatiable desire for knowledge. Stimulated in the first place by curiosity, the desire for power, personal fame and the social elevation which culture gives, man has struggled in quest of wisdom in the endeavour to form together fragmentary conceptions of the great adventure of his kind.

At times the darkness of barbarity and bigotry has fallen upon the world and man has slipped back into the ages; but always there has been a recovery; the seed sown before the night has stirred and begun to germinate in the morning. The Greeks who produced the first philosophers, physicists, and physicians, were followed by centuries of ignorance until the revival of scientific curiosity at the Renaissance. From that period onward there has been a steady acceleration of knowledge.

The steam engine, the steam boat, the telescope, and the electric telegraph and cable followed each other with amazing suddenness. An economic and industrial revolution took place; technical knowledge and skill developed with extraordinary rapidity and to an extraordinary extent measured by the progress of any previous age; science was stimulated and sustained by the interest of its practical applications.

No scientific achievement, however, seized upon popular imagination, as

did wireless. The profound mystery of ethereal voices and messages provoked the interest of a vast mass of people to whom science had been but a vague wish—a latent force. Practical scientists perceiving this concentrated with success upon the simplification of transmitting and receiving apparatus. There arose a great host of amateur scientists, and the quest for learning was intensified a thousandfold.

The amateur was in most cases a working man and often a poor man. The demands of his wife and children prevented him from devoting his whole time to the pursuit of his desire. His university was his magazine. He found expression in a new form of literature which has spread to the ends of the earth. The new "Radio" is part of this development, symbolising the advance of science in Australia. Its aim is to represent present-day thought.

No man can go beyond his own knowledge, no thought can reach beyond contemporary thought, and it is impossible for us to guess or foretell where our science will lead to as the great task of intellectual construction goes on and our ideas grow clearer and more exact. But as they grow clearer they will gather power over the minds and imagination of men. Their present lack of grip is due to their lack of assurance and exact rightness. They are misunderstood because they are confusingly presented. But with precision and certainty the new vision of the world will gain compelling power.

## Between You And Me And The Microphone

Conducted by Jack Plugge



ON APRIL 27, GWF relayed the Dutch station, PCJJ. The speech and music were exceptionally clear and distinct, and one would have thought that the programme originated in GWF's Studio.

WHEN THE DUTCH STATION closed down about 8 a.m., W.A. time, the American station, 2XAF, was switched in, and the latter part of the programme from the New York Station WGY was rebroadcast. However, since it consisted largely of a French talk, with the few musical items announced in French, it was not as interesting to the Australian listeners as was the programme from Holland.

ENGINEERS AT GWF are making strenuous efforts to circumvent atmospherics. Realising that at present there is no practicable method of completely eliminating this interference, endeavours have been successfully made to avoid atmospherics as much as possible by using two wave-lengths. For the last three months GWF has been broadcasting their evening programme on two separate wave-lengths, using 100 metres in addition to their normal wavelength of 1250 metres.

IT WAS FOUND from experiment that the short wave was singularly clear of atmospherics, although the day range of the short wave was much less than that of the 1250. So as to ensure good reception with the minimum annoyance of interference from atmospherics for the whole period of transmission, GWF broadcasts on 1250 metres during the day session, and in the evening a simultaneous broadcast of the evening programme is made on both 100 metres and 1250 metres. The 100 metres is primarily intended for those listeners at a distance, who suffer from atmospheric interference.

BY THE END of this week the Great Trek will begin. 3LO will pack up its microphones, pianos and carpets and vacate the Collins Street premises in which much of Australia's broadcasting history has been made. The new studio in Russell Street is almost ready for occupation, and the one night shift will be made without affecting the programmes. A duplicate amplifier and control board has already been installed in the new Russell street studio, so that the greatest problem of the transfer has been obviated. Great care has been taken so that the homely hospitable atmosphere of the old studio will be maintained in the new.

MR. EWART CHAPPLE, accompanist at 2FC, and endeared to all as "Moos Chapple," was running through the Maurice Besly preludes, a collection of extremely difficult pianoforte selections, written in the modern style. Behind him stood with rapt expression a small boy, who was probably looking for the "Hello Man." When the last prelude crashed to thrilling conclusion, the lad approached the pianist and timidly piped up: "I suppose you learned out of Hery's!" Utter collapse—or to paraphrase Mr. Chapple's well known witicism: "Hence the term 'nervous breakdown!'"

A PROPOSED broadcasting station for Angora, Turkey, heretofore one of the few countries without a broadcast station, is reported from abroad. The channel is understood to be 360 meters and the power about 500 watts.

LATVIAN RADIO regulations covering the reception of news items and dispatches provide payment of a fee of 100 lats per month and require that such receiving sets do not interfere in any way with other stations. A record of all messages received must be kept on file.

A PECULIAR LETTER reached 2BL this week by the American mail. It tells its own story:—"Dear Sir,—I cover the radio stations the world over with pen and ink, and am called the radio tramp. I would like to have some of your fans and your studio artists write to me about radio, etc. Kindly do me this favour if it is not too much. Will be glad to hear from them and write back. Thanking you, Just, Herb, Radio Tramp, Cass, Lake Michigan, U.S.A., 3/6/27."

IN RELIGIOUS CIRCLES the question of broadcasting racing and general sport results continues to agitate many. The following figures supplied by 3LO throw light on the subject. From October, 1924, to October, 1925, 3LO was broadcasting for 2272 hours, of which 244 hours were given to church services and 9 hours to racing and sport generally. From October, 1925, to October, 1926, the studio broadcast for 3061 hours—293 hours were given to church services and 58 hours to racing and sport. From October, 1926, to March, 1927, the total was 1519 hours, 150 hours being devoted to religious services and 30 hours to racing and sports.

### Do You Know Your Radio?

A series of questions floating radio in a new and interesting way, with their answers will be published weekly in this section. Here are the first ten. How many can you guess without looking to the answers on page 11?

1. When was the first concert broadcast in Australia?
2. When did Marconi succeed in flashing his first wireless signal across the Atlantic Ocean?
3. How many years have valves or vacuum tubes been in use?
4. What do the letters "S.O.S." mean?
5. Who is the Hello Man?
6. Who assigns the wave length which a broadcasting station shall use?
7. Where was the first modern broadcasting station to go on the air in this country located?
8. What was Professor L. A. Hazeltine's main contribution to radio set design?
9. How may sets can be operated from the same aerial wire?
10. What do the call letters of stations mean?

For the Family's Sake, Buy a Philco.

## E. J. Van de Velde in the Air and on the Air Again

**W**IRELESS readers, I have just finished another aerial trip—this time two thousand two hundred and fifty miles to Adelaide and back, via Broken Hill and the Darling. Had I but taken a nibble with me I could have let you hear the pitter-pat of the sheep hoof beats, the drone of the Siddeley-Puma engines, the grasshoppers making grass and the butterflies making butter—in short, I could have created an atmosphere in strict accordance with the rules laid down by a certain radio scribe. Unfortunately, it could not be, on paper the scheme was sound, but in practice there would have been no sound, not even the shuffle-shuffle of countless feet on the great open steppes.

However, I did notice a distinct atmosphere at Broken Hill. I did not meet a man who felt as soon as we had chatted a while that although he had never met me, he found something about me that gave him a weird sense of familiarity. It happened that one Radio Reg—six feet of real man—heard me say on Wednesday night that I was arriving at the Hill next day by air, and would like to meet the huns. Well, when I climbed out of the plane, Reg. was there with some of the boys—I heard him ask the pilot whether he had brought a man from Sydney. The pilot nodded his head towards me, and by the look on Reg's dial I saw his output had dropped from 5000 watts to 6000. However, he brazen himself and came on and extended his hand, mentioning his name. I shook hands, and said a few short sentences.

As soon as I spoke, hey presto! wags! we were blood brothers! he took me to his bosom at once. There



A shining lake, Adelaide hills, is really, a reservoir.

was some strange link between us, as if we had known each other always. Did he recognise a voice he had often heard through the ether, or was it my personality that had impressed him? No, the few words I had croaked out told him that I had a coating about 5-16 of an inch of thick red dust in my throat, baked there by three packets of cigarettes, and the thing I wanted most was some virile but with a handful of Clariph Tonks in it to clear this out. Well, he motored me to the Crown or Imperial, or something, and we toasted Mr. Marconi—and, believe

me, the immortal Gunga Din had nothing on Radio Reg.

Well, we toasted the various stations—2FC, 3LD, 5CL, 6WF, etc., and when we got down to 2ME, I got my voice back. Unfortunately, it was time to go then, which was rather annoying, as there were quite a few stations in U.S.A. worthy of mention, not forgetting 2LD, London, and our Continental Brethren, who, I am sure, would have appreciated the sentiment we were getting into it. The one great thing wireless has done for me was to introduce me to Radio Reg.

Adelaide, yes, some city. My picture was featured in the important papers, and I viewed a wonderfully warm welcome. All the buildings were beflagged, the bands played, and everybody was in holiday mood. Fortunately, it happened that the Duke and Duchess arrived the next day, so all the hunting was left overnight, and were thus made to serve both occasions.

I called on BCL and they graciously allowed me to abuse a nice new mike on two occasions. I met the kindly Mr. Tudor, whose heart, I am sure, must often set up harmonic vibration in the oscillator valves. Uncle Mike was there, and from the number of visitors to the Studio, I think he ought to be made Chief Scout. And Aunt Peggy—well, if they ever erect a shrine to Venus and put Aunt Peggy's statue up as the protector, I'll become a devotee.

In conclusion, I hope you were interested in my talk from 2FC last night. That night, in some small way, excuse this effusion.



Broken Hill as seen from the air.

### Marconi Tells of His Early Experiments.

WITH cables the capital cost of the cable itself increases in simple and direct proportion with its length, but in experimenting with short-wave wireless, it has been noticed that it is possible to send messages to Australia with an even smaller amount of electrical energy than is necessary to send them to Canada, and therefore at a probably lower cost, or alternatively, with greater speed and efficiency.



Senators  
G. Marconi.

I am always adverse from entering into the realm of prophecy, but perhaps I might suggest that apart from the ordinary transmission and reception of wireless messages of which I have spoken, there is a possibility that the transmission of power over moderate distances may be developed, and that television will become an actuality.

Two paragraphs from Senator Guglielmo Marconi's article in the new "Radio." The article deals with his early experiments leading up to the practical application of the Beam system. It is profusely illustrated with a series of exclusive photographs hitherto unpublished in Australia.

### Talking Movies.

"At this early date it is not possible to define the fields in which the talking motion picture will be of use," says Dr. E. P. W. Alexanderson in an article in the new "Radio" giving a semi-technical description of the new talking film. "One of the first, however, will be in supplying a full orchestral accompaniment for pictures. . . . Another field is offered by the news reels. Not only will it be possible to show important persons, but they can talk to the audience." The article is doubly interesting in view of the fact that the talking film has already appeared in several Australian motion picture theatres.

### Day and Night Reception.

Every broadcast listener who was puzzled over the strange alteration of reception strength when 2FC altered its wave length will be interested in an article by a well-known amateur radio experimenter, Roy V. Thomas, in the new "Radio." Mr. Thomas explains clearly and simply the relation of frequency and wave length, and describes the phenomena of daylight absorption.

# RADIO

IN  
AUSTRALIA AND NEW ZEALAND  
PUBLISHED BY  
SEA, LAND & AIR.

### DARK SECRETS.

Why not a Popular Announcer? Competition, something after the style of the "Film Star Quest," "Surf Queen," or "Miss Australia" Competition? suggests C. D. Macbriean, the well known amateur, in an article in the new "Radio." Under the heading of "Dark Secrets of the Radio World," Mr. Macbriean finds an Excuse for kindly chaff at the expense of the broadcasters, the radio experts, and himself—Read it—it's good.

### RADIO NEWS.

An important feature in the new "Radio" is the news digest of world radio events. In this section the outstanding developments are dealt with briefly and interestingly.



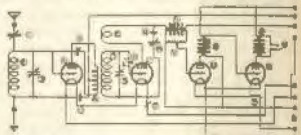
First details and pictures of a 100 kw. power valve developed in the Research Laboratory of the General Electric Co., U.S.A., for use in the transmitter of W.G.Y., are published in the new "Radio." The success of the valve, it is claimed, will revolutionise high power broadcasting. The size of the valve is clearly seen in the picture above.

### Short Waves no longer Exclusive to Amateurs.

The short waves between 15 and 120 metres are no longer exclusive to the amateur experimenter. It is not necessary now to learn the Morse Code to become a short wave fan, for hardly a day passes without W.G.Y. P.C.I.J. or a similar broadcaster transmitting a programme in that region. Nor is the popularity of short waves remarkable when we consider that receivers, such as the one described in the new "Radio," are easier to build, easier to operate, cost half as much, and possess five times the distance-getting qualities of the average broadcast receiver.

### Works from Light Socket.

Joe Reed, radio engineer of Amalgamated Wireless, contributes the technical article of the year to the new "Radio." In his own words, "Details for the construction and instal-



tion of a DX broadcast receiver and power cabinet which should meet with a favorable reception from the listener seeking an instrument combining sensitivity, selectivity, and a practical absence of battery maintenance."

### Circuit Analysis.

"Circuit diagrams are merely schematic sketches or diagrammatic pictures, which show the nature, arrangement and method of connecting the various pieces of apparatus used in a wireless receiver, amplifier or transmitter," says Walter R. Hardy, ex-secretary of the Wireless Institute, in an article in the new "Radio."

He explains how the constructor analyses a circuit in order to arrive at the fundamental principle. The article deals with the three coil regenerative circuit with particular attention to the action of the valve as a detector.

### Two Controls—Six Valves.

How to build a Two-control 6-valve receiver is the heading of an article contributed by R. H. Oxford to the new "Radio." Mr. Oxford has aimed at the perfection of a receiver embodying all that is best in the 6-valve receiver, yet retaining the popular features of the two, three, and four valve receiver. Just how successful he has been is for you to decide when you have read his article or built his set.



# A Broadcasting Company's Duty

## News and Notes from 3LO

By Our Melbourne Correspondent

(who, incidentally, was official announcer at the opening of Canberra)

ONCE more discord among listeners has arisen owing to the incompatibility of temperaments of people who simply will not realise that they cannot bring it about that programmes shall consist only of what they most like and desire.

The broadcast description of the Duke's movements during his Melbourne visit furnished material for one set of objectors; the wrestling matches so ably "put on the air" by Mr. Norman McFarlane for the other.

Humorous people are unable to take any view of statements made by men who describe facing events on the run, so to speak, other than by attributing to them heavy, literal meanings.

One can only reiterate what has been said so often before. A broadcasting company is charged with a duty to give every section of the people entertainment, so that none can legitimately complain that any programme, decent taste is ignored. 3LO holds the balance most carefully adjusted between differing tastes, and the average man or woman realises that it is necessary to hear with something dull or even distasteful for a while, remembering that there are thousands of others who have been waiting anxiously for precisely that sort of entertainment. The unreasonable must just continue to make their complaints. To alter programmes to suit them would be to spoil the rare pleasure of a great many others.

DR. BROOKE NICHOLLS: The series of talks now being given every evening from 3LO by Dr. Brooke Nicholls are arousing much interest among listeners, many of whom have never before so vividly recalled the size and wonders of their own Australia. In spite of the latest popular National Anthem, Australia is by no means to be termed simply an "island," although Dr. Brooke Nicholls found many persons in America who were under the impression that Australia is "just one of the South Sea Islands!" The Doctor recently spent a year as Special Lecturer on Australian Fauna at the University of California, greatly to the amusement of students, who had never before heard of our extraordinary animal, such as the platypus, the kangaroo, the dugong and the koala. As a result of the Doctor's research he has collected many thousands of feet of film depicting Australian fauna in action, among them being a particularly fine one of the native bear. It is on this card that some of these films may be shown in Melbourne at an early date.

Dr. Nicholls is brimful of interesting information about California also, which he regards as a sort of prototype of Eastern Australia, and draws interesting parallels between the early history of the two places.



At Kewilah, champion wrestler who talks on Physical Culture at 3LO.

THE TELEPHONE AT 3LO, MELBOURNE: To anyone who regards the sole function of 3LO, Melbourne, as being to provide information and entertainment by *Wireless*, it is astonishing to find how great a part the ordinary telephone exchange plays in the office routine. Frequently listeners ring up immediately after or even during the performance of an item and ask why it "faded on the air," or request a repetition of a short result, as for example, "Who won the Boat Race?" which is a question repeated dozens of times during a single session. If there is a breakdown, such as recurrent when the sky was plunged in darkness, calls innumerable come pouring in, demanding to know the cause. Then comes a polite enquiry for "the Announcer!" who is popularly supposed to be ready to leave his post at all times and listen to compliments, requests and instructions of all kinds. In spite of its *Wireless* connection with all listeners, 3LO, Melbourne, is probably one of the busiest centres of telephone activity in the metropolis, and to tell the plain truth, a great deal of it is due entirely to utter thoughtlessness on the part of those who ring up.

EMPIRE DAY PROGRAMME: Appropriate music for Empire Day has been arranged by 2FC, and in the evening as has been customary for the past three years from the Hotel Australia will be broadcast the speeches at the annual dinner arranged by the Royal Colonial Institute. The speakers will include His Excellency the Governor General, His Excellency the Governor, the Chief Justice Hon. Phillip Street, Dr. Earle Page, and Hon. G. F. Earp.



Charles O'Mara, Irish singer at 3LO.

# 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



## SYNCOPIATION.

Dear Sir,—Surely too much dance music has been finding its way into the programmes of late? In one week synocopated music of one kind or another occupied about ninety hours of the programme time from the main stations alone. However much one may like this type of music, the pleasure of merely listening to it is bound to pall after a time. Only those who possess loud speakers can actually dance to it, and as these listeners constitute a relatively small proportion of the vast audience, surely it is catering for a minority to increase the dance music above a reasonable limit.

Yours, etc.,  
W. OLIVER.

Rosehill.

## STRAIGHT FROM THE SHOULDER

Dear Sir,—After reading the "Safety Valve" letters, week after week, it is easy to see that 3LO is the most popular station and 2FC the most unpopular. As I have listened-in to all A. and B. class stations, State and inter-State, I must cast my vote in favour of 3LO.

"P.O.P.," Mayfield ("W.W." 15/4/27), sums it up that listeners don't know what they want, and he thinks that there is enough variation in the whole of the programmes to suit every one. P.O.P. is right about the variation in the different programmes, but wrong when he says listeners don't know what they want. They are saying every week what they want.

After studying the programmes, how many listeners are there that can tune-in the station they want? Not too many. Why? The nigger in the woodpile is 2FC.

The suggestion of A. Whitehouse ("W.W." 29/4/27) would not do any good. 2FC don't want their transmission to be any better. They like it broad. If their transmission was O.K. they would not cause trouble to listeners with one, two and three valves. Listeners would be quite satisfied with their sets, and 2FC would not need to advise them to replace their sets with a Neutrodyne.

I would suggest that the Postmaster-General alter the wavelength of 3AR, 7ZL and 2FC as follows:—

3AR, 442 metres.  
7ZL, 484 metres.  
2FC, 550 metres.

By doing this no sets would have to be altered, and 2FC would be far enough away to stop interfering with other stations, and yet be within reach of those who wanted to tune them in. Small set owners would have a chance to pick their programmes.

Yours, etc.,  
B.S.  
Wentworthville.

## "FAIR GO" FOR TECH. ED.

Dear Sir,—We hear quite a lot about 2FC and 2BL with regard to programmes. I am one of the satisfied ones. I have an excellent receiver, which I bought from one of your most consistent advertisers; also I am very pleased with the service your paper renders.

But, there is one thing I would like to point out. 2FC do not give the technical editor a "fair go," so to speak. He gets sandwiched in here and there for about five to ten minutes a week! Surely a station like 2FC could give him at least half to three-quarters of an hour. There is no doubt whatever as to whether his talks are interesting.

Yours, etc.,  
G. A. DAWSON.  
Petersham.

## WHAT OF THE DEALER?

Dear Sir,—I have noticed a number of letters from listeners complaining about our local stations not commencing before 12 a.m. It has no doubt caused a good deal of dissatisfaction amongst the listeners, but have 2BL and 2FC realised how hard it has hit the radio dealer, who is now unable to demonstrate his sets and apparatus to his customers until the afternoon, and in some cases loses a sale? Do not 2FC and 2BL realise that the radio dealer is working for them as well as for himself, by selling sets and apparatus which are creating new licences? So why are they not trying to help the dealer and themselves too?

Could not they arrange for one station to operate in the morning and the other in the afternoon, thereby giving satisfaction to both the listener and the dealer?

Yours, etc.,  
R.J.E.      Tarco.

Burwood.

## FROM PAPUA.

Dear Sir,—It would do "A.E.McI." and "In General" good if they were stationed in Papua, 2,500 miles away from Melbourne. They might have a heart and think of other listeners. But it is an old saying, "you cannot please everyone." I have never seen the man that could. I have been listening to 2BL here of an evening, also 2FC, and I cannot find any fault in their programmes. All I can say is that they suit me. I can get them on my "Wireless Weekly" Neutrodyne, and I have no room for complaint. The programmes are all that could be wished for.

Yours, etc.,  
J. C. H. WALDRON.  
Port Moresby, Papua.

## BITTER.

Dear Sir,—How about trying to persuade the various stations to arrange to have a dance programme broadcast five or six nights a week? 3LO to-night, 4QG to-morrow night, 2FC night after, and so on. Winter nights of good reception see many private dances, and the popularity of such an arrangement would be assured.

I notice a good deal of vapourings from cranks who have no time for jazz music and speedway items, others who want all band music, tin whistles and the like. They seem to forget that the stations have to cater for others besides themselves, and one makes the absurd statement that 2 per cent. (or thereabouts) listen to speedway. I'm not a speed fiend, but I like to hear a bit about it now and then, and I think there are many others similarly inclined.

Both 2FC and 2BL are characterised by fading, and very often they are heard as though their item were being forced through a fur rug impregnated with ground glass. Since Farmer's reduced their wavelength and improved their station, daylight reception from them is poor. Personally, I don't mind if they cut off another five hours of their day programmes; I can't hear what they have to give us, and anyhow, I have a better collection of gramophone records than they, and a pianola next door.

Yours, etc.,  
SARSA.

# It's All in the Air

Coming Features in the  
Broadcasting Programs

**JESSIE BATCHELOR**, dramatic contralto from Melbourne, is returning to Sydney for four appearances with 2FC. The first is set down for May 15.

**ALFRED O'SHEA**, Australia's foremost tenor whose broadcasting in Australia has been carried out exclusively by 2FC, has been engaged for a series of six recitals.

**FRANQUITA ON THE AIR**: Franz Leher's tuneful opera broadcast very well. The 1st and 2nd Acts have been heard already and the 1st Act will be repeated on Friday, the 27th.

**TALKS ON ANIMALS**: A series of interesting talks are being arranged from Mr. A. Le Souef dealing with the following interesting subjects: "A Walk in Central Africa," "Under the Roof of the Jungle," "The Gorilla at Home," etc., etc.

**BAND CONCERTS**: Arrangements are complete for the 2FC Sunday evening band recitals during the winter. The Leichhardt Band playing from the Strand Theatre, Leichhardt, and the Mandy Band from Manly, will be heard on alternate Sundays. From the Studio during the week, regular appearances of the Metropolitan, N.S.W. State Military, Salvation Army Congress Bands, and others.

**MR. WALTER HUNT**, the examiner in elocution at the Conservatorium, is delighting listeners-in with Shakespearian plays and comedies at 2GB. He will shortly give "Sweet and Twenty."

**BEGINNING** in June, Professor Ernest Wood will be speaking every Monday, Wednesday and Friday evenings through 2GB, some of his subjects being "The Philanthropist," "The Religious Devotee," "The Statesman," "The Artist," "The Man of Imagination."

2GB has arranged to broadcast a church service on one week night, as well as on Sunday mornings. It was considered that as church music has proved so popular amongst listeners, a week day service would appeal. Every Wednesday evening at 7.15 p.m. to 7.45 "Benediction" service is broadcast.

**MILITARY TATTOO**: So great was the success of the "Military Tattoo" Scena staged from 3LO on Anzac night, that in response to the many request letters that have come to hand, the artists concerned have been persuaded to repeat the performance. Once again, therefore, we shall have an opportunity of listening to the old



Maxim Brodie  
the celebrated  
Russian tenor  
touring with  
Madame Sralia  
who was engaged  
for a short  
season at 3LO.

Army songs and ringing choruses, of joining in the laugh that follows the time-honored jokes—many of which were told when the enemy was within easy "Coo-ee" and after "Lights Out" had been sounded—in the comfortable security of our own armchair, by our own fireside, smoking the pipe of peace and goodwill to all men.

**CELEBRITY FOUR**: Congratulations always pour into the Studio after the Celebrity Four have been broadcasting from 3LO, and the success of this clever Quartette is now an established fact. Whether their vocal offering takes the form of a Solo, Duet, Trio or Quartette—the same thoroughness and finish is apparent—and their repertoire, so varied and extensive—covers numbers to suit all musical tastes. The rollicking duet, "Trot here, trot there," from Veronique, an impressive oratorio, or operatic selection—to mention a brief few—are sure to find many friends amongst the vast army of listeners who never forget to tune in on the night the "Celebrity Four" are billed to broadcast.

**RADIO REVELS**: Next appearance is set down for Saturday, 21st May, and again on Saturday, June 4. Mr. Halbert will as usual direct the revels.



A photograph taken by Mr. E. J. Van de Veld showing May and the Murrumbidgee.

**INSTRUMENTAL ARTISTS:** While Mr. Lindley Evans is touring Australia with Dame Nellie Melba, the other two members of the Sydney Instrumental Trio, Lionel Lawson and Gladstone Bell, will make regular appearances at 2FC until Mr. Lindley Evans returns, so that the popular trio will not be disbanded. St. Quentin Downer, another well-known Sydney musician, is giving a series of pianoforte recitals. Mischa Dobrinski, violinist, will be heard shortly, and early next month, the famous continental pianist, Florence Menckmeyer, will appear in a series of pianoforte recitals.

**NEW ENTERTAINERS AT 2FC:** Two popular English entertainers—Win and Windle—who have just completed a successful season with 3LO have been engaged by 2FC, and their first appearance last week was a decided success. They will be heard frequently in the future. Another well-known theatrical pair—Jones

Raines—commenced a contract with 2FC on Saturday, May 7. The management of that Station loses no opportunities of engaging harmony duos and novelty turns as a contrast to the ordinary items.

**ST. AUGUSTINE'S BAND:** One of the most popular bands to broadcast from 3LO is that of St. Augustine's Orphanage, which has been re-engaged to give several more performances from the Studio. The "Bandsmen"—all picked boys from the orphanage—have reached a very high stage of perfection, under the baton of their capable and genial "skipper," Mr. Percy Jones, who is acknowledged by all to be "Just the right man for the right job." Mr. Jones has had a wide experience in conducting bands both on this, and the other side of the Atlantic, and his verdict is that St. Augustine's is one of the best—if not THE best band of its kind in the World.



Mr. Lance Le Souef who is giving a series of talks on the sheep industry at 3LO.

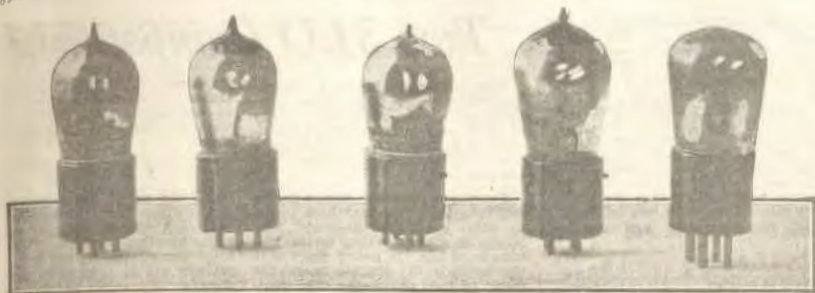
## 2FC's Canberra Coup

**2FC AT CANBERRA:** It is a significant fact 2FC have had the exclusive broadcasting from Canberra of many interesting functions. Last year the first transmission from the Federal Capital was the broadcasting of the concert by the Canberra Philharmonic Society. The energetic conductor, Mr. Ernest Mowle, had under his baton a choir of sixty and an orchestra of twenty-five, and 2FC supplied several of their principal artists as soloists. This transmission over a land line of 230 miles was uninterrupted for three hours. Next broadcasting from the Capital was the occasion of the handing over of the Speaker's Chair to the House of Representatives. Speeches were heard from the Marquis of Salisbury, Mr. Arthur Henderson, Sir Littleton Groom, and others. The third occasion was the Sunday's transmission covering the dedication and laying of the foundation-stones of the Roman Catholic Cathedral and school house. Complete descriptions were given, and speeches were heard from the three Archbishops, Duhig, Mannix and Kelly. The fourth occasion occurred on Sunday, 8th May, with the broadcasting of the Morning Service from the old historic church, St. John the Baptist. On the same afternoon, a description of the dedication of the site for the erection of the Church of England Cathedral was broadcast

from Rottenbury Hill, and on this occasion the acting Primate, the Archbishop of Perth, Bishop Radford, and Sir Littleton Groom were heard. On the same evening, from Hotel Canberra, 2FC gave a very vivid description of the activities in the Federal Capital, and explained what form the ceremony would take in connection with the opening of the Federal Capital. The Rt. Hon. Mr. Hughes gave a short description of Canberra, and Mrs. Lane Poole gave some idea of how she had carried out the furnishings at the Prime Minister's residence and Government House. On the following day the broadcasting of the ceremony was carried out by the Department, but on the evening of that day 2FC took advantage of an excellent opportunity, and broadcast from the Senate Chamber a programme which had been arranged at the reception of welcome to the visiting overseas delegates. The Senate Chamber was crowded with an influential gathering, and the artists contributing included Mr. Alfred O'Shea, Miss Beryl Walkley, Mr. Sid. Beck, and Mr. Ewart Chapple, all of whom had been specially transported to Canberra for the occasion. It was noticeable that the transmissions carried out by 2FC on these two days were wonderfully clear and remarkably free from line noises. 2FC was the only individual station to be represented during the ceremonies associated with the opening of the new Parliament.

**A POPULAR BARITONE:** One of the most recent vocalists to make his bow before the microphone in Studio 3LO is Mr. Fred. Moore, baritone, of the "Rose Marie" Company, who is filling a short engagement at the Studio. Originally hailing from that land of song—Wales—Mr. Moore had considerable experience both as a chorister and concert artist, but yearning for wider sphere, he decided to adopt the stage as his profession, and has already made much headway. Mr. Moore is the fortunate possessor of a rich resonant baritone voice, of considerable clarity and much above the average with regard to quality, and his vocal items, which will include songs ranging from early English melodies to present-day compositions, should find immediate favor with listeners.

**THE TALENTED LAMBERTS:** Musical items, far above the average, have lately been broadcasted from Studio 3LO by the talented Lambert Trio, consisting of piano, voice and violin. As is generally known, before they came to Australia—both Madame and Mons. Lambert were closely connected with the Conservatorium of Music at Brussels, and they have built up for themselves enviable reputations throughout England and the Continent, as artists of considerable merit. Their son, Mons. Raymond Lambert, although only 18, has already claimed the attention of the leading musical critics of Europe as a pianist of more than passing interest, and, although he has only been a short time in Australia, has already made himself a conspicuous place in the musical circles of Melbourne.



## The Fleming Valve

**L**AST week we found that the atom plays a most important part in the wireless valve. It was learned that a positive charge attracts the negative charge, thus causing an electric energy to flow from negative to positive, in fact the free electrons emitted by the heated filament of a valve were attracted across the space of a vacuum to the positively charged plate or anode. Here we have the Fleming valve. It must be remembered that a condition as near as possible to a vacuum exists before this state of affairs becomes possible. Thus the Fleming valve comprises a filament and a plate—known as electrodes—inserted inside a glass tube from which all the air is extracted.

The Fleming valve will detect oscillations and therefore is really a detector. Fig. 1 shows a circuit in which the Fleming valve two electrode valve is used. The filament *F* is heated by a battery *A*, the anode or plate of the valve being marked *P* is held at a positive charge by the battery *B*. *L* and *L1* and *C1* are the tuning arrangements whereby the incoming signal may be received to a definite wave length and applied in the orthodox manner. The filament *F* being heated causes the free electrons to jump across to the positively charged plate, thus causing a current to flow.

But, and here is the rub, if, instead of a positive charge being impressed

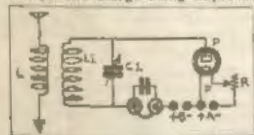


Fig. 1.

on the plate, a negative charge were applied here, no electron attraction would take place so no current would flow, for in electrical circles we always understand that unlike attracts and like repels. So now it follows that if the negative of the B battery is applied to the plate the free electrons are sent scurrying back to the filament. It will be understood then that if a positive electrical charge is alternated with a negative electrical charge on the plate or anode, a current will flow and then cease when the negative valve takes charge and then flows again when the positive valve is in the plate circuit.

Figure 2 shows an alternator or a generator of alternating electric currents (AL) in the plate circuit of the Fleming valve which has its filament heated by battery *B1*, the amount of heating being regulated by rheostat *R*. A galvanometer *I* is installed as a measuring instrument. When the alternator is set in motion, one half of the alternation impresses a positive charge to the plate, thus causing the electrons to flow from the filament to the plate and registering on the galvanometer. When the next half alternation takes place the plate becomes of negative value, thus preventing the flow of electrons and showing nothing on the instrument. The rapid change of direction of current to the plate circuit caused by the alternator causes a similar alternating flow in the external circuit, thus the valve acts as a rectifier.

To come back to Fig. 1 we will analyse a little more closely just what takes place when the two electrode valve is used as a detector of wireless signals. Here, as explained before, there is the loose coupled aerial circuit, etc. The incoming wave train from the aerial is alternately negative and positive, is actually a high frequency alternating current. The

rate of change or alternation may be 1,000,000 times per second, this being governed by the wave length of the transmitting station.

When the positive portion of the alternation or cycle, as it is better known, is sent from the aerial to the plate of the valve, a current flows from the filament. This current varies in intensity according to the value of the incoming wave. Then when the next cycle hits the plate, the cycle drops from positive to negative, thus making the plate negative, thereby preventing flow of current within the valve. The intensity or value of these incoming oscillations vary in nature in this manner.

The transmitting station sends out what is known as a continuous wave. This wave is of the same value until someone speaks into the microphone, or some form of sound is emitted before the microphone, which causes variations in the nature of the oscillations, which in turn are collected by the receiving aerial and impressed on the plate of the receiving valve as mentioned. The variations of the plate voltage are registered in the phones, thus making the signals audible.

To further explain the action of a wave train look at Fig. 3. Look at it

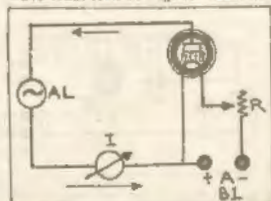


Fig. 2.

now and don't be frightened, for it is really simple after all. Most people are inclined to balk at curves, etc., why, goodness knows. Still looking at the top line we have an indication of the incoming oscillations, the radio frequency energy from a spark station such as a ship at sea. This illustration is easiest. Here we have a group of waves which increase in amplitude and then die down. These damped oscillations as they are called apply alternating charges to the plate of the valve, one half of the cycle being negative and one half

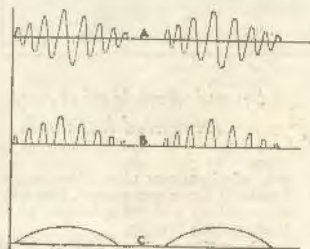


Fig. 7.

positive so that when the positive half cycle is in charge current flows across the valve.

The second line shows just what takes place after the valve has rectified these oscillations, and the third line indicates the average 'phone current or the variation of plate current caused by the anode. Actually the B battery current is always flowing through the plate at a constant potential, but the incoming signals cause a surge in this current which is indicated by line three.

This is a short explanation of the functioning of a di-ode or Fleming or two electrode valve which is quite useful as a detector, is, in fact, about equal to a crystal for detecting purposes. Needless to say, it is seldom used nowadays, as a more superior type of valve is on the market now known as a triode or three electrode valve.

In 1897 Di de Forest improved upon the Fleming valve in a remarkable manner. The two electrode valve as

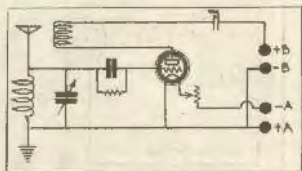


Fig. 8.—One valve non-regenerative receiver. Triode valve.

## Two 3LO Competitions

3LO is about to launch a "Laughing Championship of Australia Competition." Those who laugh loudly or softly and those who laugh hilariously or hysterically, as well as those who imitate the kookaburra, are eligible.

Every city, town and village has its laugher. He or she may be a jester, or only a "happy-go-lucky" who laughs in sheer abandon to the joyousness of life. In nearly every case the laugh is the prelude to, or the result of good cheer—the open gateway to happiness and health. 3LO wants every laugher, whether man, woman or child, to come along and laugh before the microphone so that the world may be filled with laughter.

A laugh a day keeps the doctor away. Let us have all the laughter we can. Spread the cheerio of laughter. Radiate by wireless the

joyousness of laughter. Particulars and conditions of the competition will be announced later. In the meantime, get the habit—get happy and laugh.

\* \* \* \* \*

At the end of May a useful competition is to be launched by 3LO, with the design of encouraging shorthand writers. There are to be three tests. In the first, competitors will be required to write at dictation 500 words at the rate of 100 words a minute. In the second they will be required to write 800 words at the rate of 120 words a minute. In the third 800 words must be dashed off at a speed of 160 a minute.

For the first test, only persons receiving tuition are eligible. Name of school, college or teacher must be given.

For the second, people are eligible who have not received a certificate for a speed greater than 120 words a minute.

The third test is open to all.

This is how the examination will be managed. Competitors will take down the dictation in shorthand and then transcribe their notes. The transcript, with the shorthand notes must be sent in to the Examiner, with name and address affixed. Papers will be judged on the correctness of transcribed matter, the accuracy of the shorthand outlines and the neatness in the preparation of the transcript. Tests will take place on Tuesday, May 31, at 9 p.m., and letters containing papers must be posted not later than the evening of the day following. All papers bearing postal cancellation stamp of a later date will be rejected.

Candidates' papers must be endorsed by a listener holding a wireless licence in any part of Australia or New Zealand. Interstate candidates should announce their entry by telegram to 3LO.

Medallions will be awarded to those gaining first, second or third place in any of the tests, and in addition certificates will be issued to those who, in the opinion of the Examiner, have sent in papers sufficiently meritorious to entitle them to a pass.

The decision of the Examiner shall be final. Mr. P. Dugard, Chief Shorthand Writer, State of Victoria, and member of the Victorian Licensed Shorthand Writers' Examination Board, will be the Examiner.

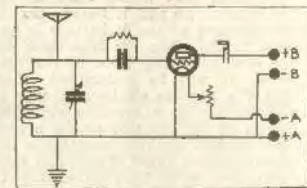


Fig. 5.—One valve regenerative receiver. Three electrode valve.

explained had a filament round which a cylinder of metal was placed. This cylinder of metal does not touch, the filament being insulated from it. The space between the filament and the plate is known as the space charge due to the negative electrons taking charge of this space. Into this space charge, between the filament and the plate de Forest inserted a third electrode known as the grid. This grid usually takes the form of a spiral of wire wound apart from but around the filament the whole of its length. A connection for this grid is brought out on the base of the valve alongside the two pins for the filament and the one pin for the plate. This forms a convenient method of making connections to the electrodes, as all know just how simple it is to plug a valve into a socket which has the external connections taken to it. This grid acts as a "traffic cop" as will be explained later—thoroughly understand the action of the Fleming valve before tackling the problem of the three electrode valve. Next week this will be discussed at length.

## How did you Raet?

These are the answers to the questions which are printed on page 4:

1. On March 1, 1921, the first concert in Australia was broadcast by Mr. C. D. MacLellan.

2. On December 12, 1901, the letter "S" was received by Marconi from Padua, England, at St. John's, Newfoundland, a distance of 1,800 miles. See Marconi's own story in the new "Radio."

3. Just about twenty-one years ago, Patents were granted DeForest on January 18, 1906, on his "audion" tube.

4. The international distress signal, a combination of dots and dashes, which spell out the letters "SOS," which are not the initials of phrases or words, as popularly supposed.

5. Mr. A. S. Cochrane, announcer and headline storyman at 2FC.

6. The Commonwealth Government through the agency of the Department of Wireless and Telegraphs, assigns the station wave-lengths.

7. Station 2BL, then situated on the roof of the "Daily Guardian" building, Phillip Street, Sydney.

8. The autodyne circuit, which he patented in 1923.

9. Ordinarily one set may be operated from the same aerial. By means of special circuits any practical number can be connected in.

10. They are used for identifying the stations and take only such special significance as the station owners wish to place upon them. For instance, the letters FC in 2FC are supposed to stand for Farmer and Company, QG in 4QG for Queensland Government, AR in 3AR for Associated Radio, CL in 3CL for Central Broadcasters, Limited, and WF in 6WF for Western Australian Farmers. The numbers denote the radio district in which the station is situated.

### MANNING RIVER.

A report compiled by "Spears," of Wingham, after conversations with a number of listeners-in in the Manning River district, the five valve autodyne being taken as a standard.


In the last issue of "Wireless Weekly" we inadvertently listed the name of Manufacturers' Products Pty. Ltd., as exclusive selling agents for Clyde Batteries. Such is not the case, as the Clyde Company distributes Clyde Batteries themselves.

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# MINGAY

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Via Bathurst.  
23-4-27.

Dear Sirs,

A line to let you know that the Set you left with me on account of Mockler Bros. of Bathurst daily brings in Stations 5CL, 4QG and 3LO in daylight.

I thought possibly this may interest you in view of the fact that you stated it was almost an impossibility to receive these stations in daylight.

Yours faithfully,

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# The Elstree Solodyne

**THIS** amazing 5-VALVE SENSATION is without doubt the best set for the home-set builder. The ease in getting distance, the wonderful purity, and simplicity of its tuning make it ideal for the coming season.

Read the Article in this Issue,  
Then Build It!  
**HERE ARE THE PARTS—**

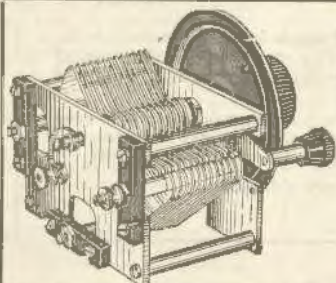
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1 Crescent Audio Transformer, 6 to 1 .....	0 13 6
6 Renrade Filament Ballasts, .25 or ½ Amp., at 3/6 .....	0 17 0
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Grodan Shielded Coils: The Grodan Kit, "Elstree" .....			2 15 0
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# THE SOLODYNE



*Enthusiastically described by the Technical Editor, after testing, as the "World's most wonderful five valve set." It employs screened coils and a single control as seen from the front panel drawing reproduced above; there is no direct pick-up and produces astounding results on long distance work.*

**T**HIS most excellent and world-famous receiver hardly needs an introduction to readers of "Wireless Weekly." Recently we published some extracts from the log of Major Padden, who travelled around the world with a Solodyne receiver, and his log shows beyond any shadow of doubt just why this wonderful receiver has beaten everything before it.

The product of the Elctree Laboratories in England, this receiver was first published in "Modern Wireless" last September by Mr. J. H. Reyner, B.Sc. (Roux), A.M.I.E.E., the Editor of that grand English journal. The Solodyne comprises five valves and the tuning is accomplished by manipulating one dial. This is produced by the use of three variable condensers on one spindle which tunes the latest departure in coils—screened, or canned coils, as our American friends prefer to designate them.

The screened coil was produced by Mr. Reyner after months of experiment, and great credit is due to him. As has been explained over and over again in these pages, the greatest drawback in the use of radio frequency in the average receiver is difficulty of obtaining stability—the oscillation set up is very hard to control. There are many contributing reasons for this, the main one being interaction of magnetic fields between coils.

Everyone knows the schoolboy's magnet—he plays with it, picking up bits, etc. We say the pin is attracted by magnetism. That this magnetism is present there is no doubt, and although we can't see it, feel it, or taste it, we can see its effect. We can see the pin jump across the intervening

space. This magnetism is certainly a force, and that energy which reaches out to the pin is known as the lines of force.

A magnet of the schoolboy type is known as a permanent magnet and can be made by winding several turns of wire around a piece of steel and applying an electric current to this wire. When the steel is withdrawn from the coil it is of magnetic value—the steel becomes a magnet capable of developing lines of force.

Whenever we have a coil of wire in

an electrical field we have lines of force or a magnetic field which extends out in many directions when a rapidly varying electric current such as radio frequency energy is flowing around the turns of wire or coil. This causes a damping effect and a broadening of tuning the arch enemy of selectivity, and, incidentally, allows direct pick up in the receiver itself. This is instanced when a receiver picks up the local station without aerial and earth.

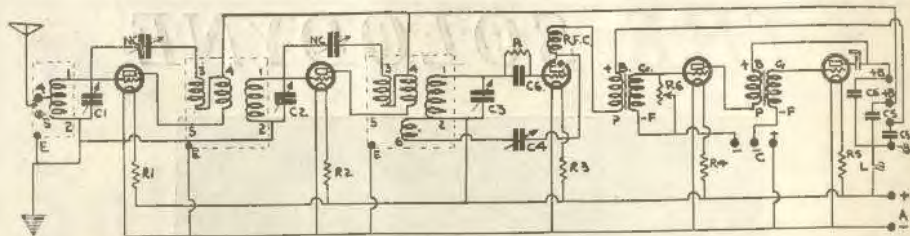
To avoid these troubles Hazelline mounted the neutroformers in a Neutrodyns 5 to 7 inches apart, and erected them at a special angle. Helical and Toroid or Circloid coils also minimize the magnetic field, and many other types of coils also do so.

Reyner's method of screening is perhaps the most effective. He winds his coils on a small former and encloses them completely in a can of given dimensions. This can or screen he connects to earth, thus eliminating the magnetic field, and interaction altogether and providing stabilization hitherto extremely difficult. It is this principle that is employed in the Solodyne.

Screened coils are of different types. There is the aerial coil, the split primary and the split secondary. The latter type of coil doesn't concern us in this article, being the coils which made the Mewdex possible. The aerial coil and the split primary we do use here. In the original design by Mr. Reyner he wound a coil of 90 turns of 30 D.S.C. wire on a 2-inch former, spaced 40 turns to the inch, with tapings taken at 10 and 15 turns from the bottom. This tunes from 350 to 550 metres with a .0005 vari-

## PARTS.

- 1-Dilecta or Radion Panel, 21 x 7 x 2 1/2.
- 2-Grania 5-pang .0005 Variable Condenser.
- 3-.0005 Variable Condenser.
- 1-MacLuccan Tone Purifier.
- 1-Vernier Dial.
- 1-Knob (for reaction condenser).
- 1-Kit Radiokes or Grodan Solodyne Screened Coil.
- 2-All American Valve Sockets.
- 2-Radian Valve Sockets.
- 2-201c Type (.25) Filament Ballasts.
- 2-Advance 3/4 to 1 Audio Frequency Transformers.
- 3-2 mfd. Tube Fixed Condensers.
- 3-Advance Midget Condensers.
- 1-Radiokes R. F. Choke.
- 1-.00025 Wetless Grid Condenser, with clips.
- 1-Swing Leak.
- 1-Permalloy Board.
- 12 Busbars.
- 1 Baseboard, 20in. x 16 x 1in.



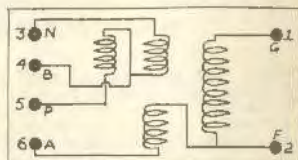
able condenser. This allows auto coupling on the aerial circuit and is effective. To suit the local conditions of residents living in Eandi or Penant Hills way the Metropolitan Electric Co. of this city has added a coupled primary to this, and they are to be commended accordingly.

The split primary consists of a secondary of 90 turns of 30 D.S.C. wire on a 2-inch former, spaced 90 turns to the inch as before. Inside this 2-inch former is fitted a smaller former 1 1/2 inches in diameter, on which is wound the primary and also the neutralising windings. The neutralising winding—20 turns of 30 gauge D.S.C. wire—is wound in the centre of this smaller former, each turn being wound next to its neighbor. The primary winding also of 20 turns of the same gauge wire is wound over this winding, a layer of Empire cloth separating the two. In many instances it is desirable to have a reaction winding, so to this end a coil consisting of 25 turns of the same

gauge wire is wound on the primary former below the primary and neutralising winding. These are the specifications for the coils used, and in accordance with these specifications are constructed the Radioakes and Grodan coils available to-day, either kit being suitable for the Solodyne. The smaller diagrams give the connections for these coils so that if the constructor prefers to wind his own he will find no trouble if these instructions are followed.

The circuit diagram shows the circuit of the Solodyne. As may be learned, this receiver consists of two stages of neutralised radio frequency, detector and two stages of audio frequency. Reaction is applied to the detector valve, hence the No. 6 connection which is not desirable in the preceding coil. The relation of the neutralising condensers to the rest of the circuit are plainly seen. Leaving out the reaction, a strong similarity to the Neutrodyne is expressed, and as

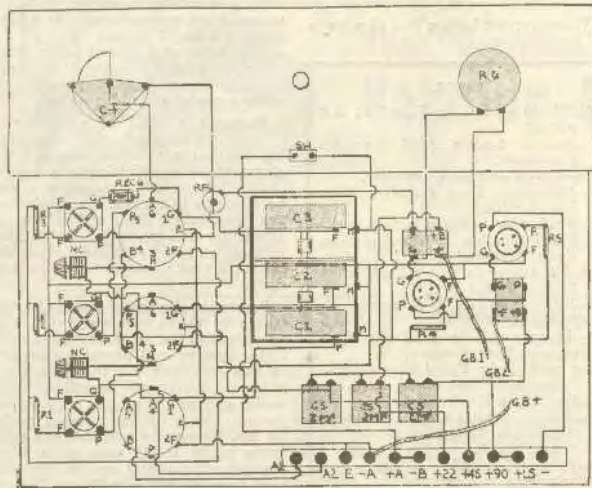
all know the Neutrodyne is a most satisfactory receiver, what must the Solodyne be with all its natural advantages? As the reaction adopted is of the Reinartz variety a R.F. choke is desirable. This choke is really not critical, but its incorporation is advisable. Note that no rheostats whatever are used, filament ballasts



The split primary coil connections.

servicing the purpose admirably, thus reducing the number of controls. In order to regulate the volume a MacLurean Tone Purifier has been chosen, and has been found most effective, while it is plainly seen that the screens or cans are earthed or joined to the F negative which are connected to earth. Across each terminal of the B battery is connected a 2 m.f.d. Tobe fixed condenser to ensure maximum purity and freedom from distortion. So much for the circuit which looks more pretentious than it really is.

The panel layout is extremely interesting. Right in the centre is placed the three gang condenser, which is the one hole mounting type. Immediately below is found the battery switch. With some battery switches it will be necessary to raise the condenser perhaps half an inch to give clearance. On the right is the reaction condenser, while that useful adjunct, the MacLurean Tone Purifier, is on the left of the panel. A vernier dial is really necessary on the main tuning control. Still drill the panel ready for the apparatus, which should now be mounted.



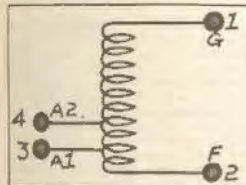
The back of panel wiring diagram. Check with circuit diagram and wiring instructions. . . . .

Prepare the baseboard by sand-papering and sbrilancing. When dry, lay out the parts. Be careful to use the supporting brackets to keep the weight of the large condenser off the

panel. Watch the correct method of mounting the coils—see that the different soldering lugs face in the direction shown in the back of panel wiring diagram. Note the positions of the neutralising condensers between the valve sockets and the placing of the filament ballasts. Attend to the angle of the A.F. transformers and their relation to the A.F. valve sockets. There is plenty of room for the Tebe fixed condensers, so no mistake is likely to be made here. The choke may be placed either side of the variable condenser and close to the panel.

Before proceeding further, let it be understood that the standard three core condenser is not suited to this circuit. Although being rotatable by one dial, each condenser of the three is a separate entity from its neighbor. A block of insulating material separates each condenser. It is mounted on the back of the spindle of one condenser and the front of the spindle of the other condenser. So if other than the specified condenser is used watch out for this; it is most important.

Still coming back to the construction, at this stage the set is ready for wiring. Now the wiring is straight out, but still requires a little thought. Some of the leads are a bit awkward in wire but don't be worried over this. In the set constructed in our laboratories square bushes were used and was found reasonably simple excepting in one or two instances. Particularly was this noticeable in the ve-

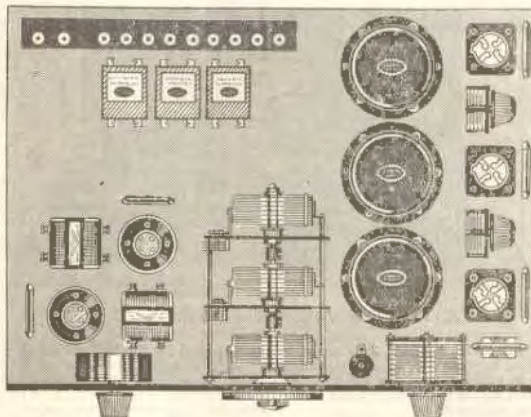


The connection for the aerial coil, 2 and 4 are aerial tapings.

action condenser fixed plates to the A or No. 5 of the screened coil nearest the panel. Perhaps it would be wise to install this connection first. If desired and points to point-insulated wire would be worth while; this will be left to your own jurisdiction. Now tackle the filament wiring. To assist further a wiring specification follows on, but you are advised to check off with the circuit diagram and also the back of panel wiring diagram. This will prevent any error arising which is often attended with dire results.

#### Wiring Instructions.

Connect together the A or No. 6 of



The plan view. Note the R.F. choke alongside the reaction condenser.

the coil nearest the panel to the fixed plates of the reaction condenser.

Link together the F positive terminals of the two R. F. and detector valves.

Run a bush from this wire to the earth connection of screw 2, thence to F of the same screen, thence to F and E of screen 2, moving plates of C1 and C2 (two back condensers), thence to F negative of two A.F. valves and back to E of screen 3. Join this to one side of switch, other side to A negative. Join together one side of each filament ballast, and to this wire crossing in front of panel to the A.F. ballasts a connection from the moving plates of C3 (nearest panel), and then on to A positive of terminal board which joins B negative next to it.

Connect the remaining filament terminal of each valve socket to the remaining side of each filament ballast governing it.

Run from fixed plates of C1 to G of coil 1, thence to G of valve socket 1, thence to fixed plates of N.C. 1.

Join moving plates of N.C. 1 to N or 3 of coil 2.

Connect F of valve socket 1 to P or 5 of coil 2. Run fixed plates of C2 to G of coil 2, thence to G of valve 3, thence to fixed plates of N.C. 2. Join moving plates of N.C. 2 to N or 3 of coil 3. Join together R or 4 of coil 2 to B or 4 of coil 3, thence to B plus 45 volts for R.F. work.

Join P of valve 2 to P or 5 of coil 3.

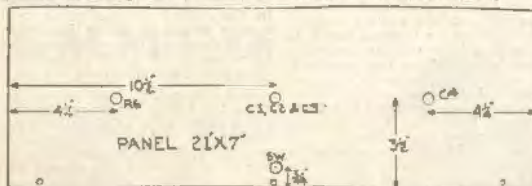
Join together P of valve 5 (Detector) to moving plates of reaction condenser, thence to one side of R.F. choke, the other side of which goes to P of A.F.T. 1.

Connect G of valve socket 3 to grid condenser, other side of which to fixed plates of C3. To this wire link on G or 1 of coil 3.

Join B of A.F.T. 1 to B positive 22 volts on terminal board.

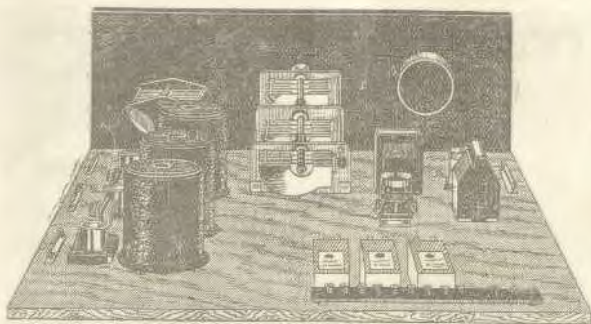
Connect G of A.F.T. 1 to G of valve socket 4, thence to one terminal of MacLellan Tone Purifier.

Link P of valve socket 4 to P of A.F.T. 2. Then G of the same transformer to G of valve socket 5.



Drill the panel to these dimensions.

The Life of a Philco Begins when Bought.



Here is a view of the receiver from the back.

Connect B of A.F.T. 2 to one side of loud speaker (LS) terminals, thence to B positive 90 volts on terminal board, thence to one side of one of the Tobe condensers.

Join other side of L.S. terminals to P of valve socket 5.

Link together one side of each Tobe condenser to the B negative of terminal board.

Join remaining side of each of the two Tobe condensers to, 1st B positive lead 45 volts and the 2nd to B positive lead 22 volts.

Join F of A.F.T.1 to remaining side of Madurcan Tone Purifier. Take a flexible lead from F of A.F.T.1 for the C battery.

Take another flexible lead from F of A.F.T.2 for the C battery.

Join earth terminal to F of coil 1, then aerial terminal 1 to A1 of first coil, then A2 of terminal board to A2 of coil 1.

Be careful to note that all the screens are connected to the F negative, also to the earth wire. Solder to the coil connections and remember to have a nicely tinned iron of the correct heat and solder properly.

When the wiring has been completed check off for any mistakes which may have occurred and rectify them right away. Note that there has been no confusion between the A and B batteries. To obviate risk of valve burn-outs it would perhaps be wise to install a small flash lamp between the positive A and the negative B terminal on the terminal board. If this is done leave out the connecting busbar between these two terminals. If there is a mistake in the wiring of the A and B batteries immediately the batteries are connected this flash-lamp will burn out. This is better than losing five good valves.

Speaking of valves brings us to the question of the choice of valves. Actually in our test Osran DE5b valves were used. These valves are of the impedance factor of 30,000 ohms and

proved ideal for the two radio and the detector stages. Any other make of valve of between 25,000 and 30,000 ohms impedance will possibly be suitable for these stages, but valves of the lower order of impedance, such as UX201a Radiotrons will be better in the L.F. stages.

In our diagrams we have shown the detector plate voltage as 22 volts. This is quite correct, but up to 50 volts on the DE5b valve as a detector will not be out of place. As high as from 45 volts to 90 volts will be found useful in the R.F. stages, while as high as 120 volts will be of interest in the A.F. stages. The grid bias will vary between 4 and 9 volts, and trial will prove this.

Tuning is the essence of simplicity. Only one dial—the centre dial—need be touched for the original handling. Press the battery switch to the ON position, at which all the valves will light up. Connect the speaker to its terminals and slowly rotate the centre dial. Leave the neutralising condensers about one quarter of the way in and tune in the local station.

It is, of course, necessary to balance the main condenser. Bring the local station to its loudest pitch, leaving the reaction condenser right out until the sharpest point for the local station is located. Now bring the reaction condenser into play. Its effect will be noted—in fact, later on in bringing in the distant stations at a loud volume it will be found invaluable. Next balance up the aerial condenser by means of the small compensator, until this circuit is in tune.

Now neutralise first valve. Remove the ballast governing the first valve. Lift it out of the clips. The station will still be heard, certainly weakly. Next turn the first neutralising condenser until the signals disappear altogether or become very faint. Replace ballast and neutralise the second valve in a similar manner.

The neutralising condensers need not be touched again.

Go after a distant station, say 400, Brisbane, using the main tuning dial, and adjust the remaining compensator. Perhaps it will be wise to make a final adjustment of the aerial condenser compensator—this can be best judged by oneself. When balanced, leave everything alone and tune in the other stations. You will be surprised to note just how easy each station rolls in one after the other. If the volume of the local station is too great, turn to the Madurcan Tone Purifier—it will prove useful. The 30ml reaction condenser when used increases the signal strength up to oscillation point, but beyond distorting your own reception no interference will be caused outside. The Solydne doesn't radiate.

The results this most wonderful receiver will give is surprising. Actually at Marrickville 5CL, Adelaide, was heard on the loud speaker in daylight—wonderful indeed. Selectivity is of the highest order, particularly when the loose coupled aerial coil is used. And the quality of reception is of extreme interest.

We will tell you more about the Solydne next week. One dial control and all stations on the loud speaker—New Zealand stations included—with tremendous volume and luxurious quality of tone. This is possible with the Solydne. Hail! Britain—the producer!

#### HAWAIIAN ENTERTAINERS.

The appealing Hawaiian songs and instrumental solos of Frank and Frances Luiz, the native entertainers who are broadcasting from SLO, are greatly to the fancy of the majority of listeners—especially in New Zealand, for the steel guitar appears to have special broadcasting qualities, and the transmission to New Zealand—judging from the letters we have received, must be particularly good. These talented instrumentalists and vocalists have had a great deal of success and experience on the stage, especially throughout the United States, where the steel guitar and ukelele are both very popular. Frank Luiz, who arranges all the native airs as solos or duets for the steel guitar, is a musician of considerable skill and knowledge, and, in addition to the steel guitar, upon which he is a past master, has both a practical and theoretical knowledge of several other stringed instruments. The vocal offerings of this talented duo are melodious and delightful, and through the medium of these native entertainers we shall soon become as familiar with the "Shores of Waikiki" as we are with the "Cotton fields of Alabama."

# The secret of *filtered output*<sup>1</sup>

**N**OW, for the first time you can build a receiver embodying the three necessary requirements for perfect tone results:

1. A clean undistorted signal through the detector.
2. Uniform amplification of all voice and musical frequencies.
3. A filtered output by which nothing but pure voice current is permitted to actuate the loud speaker.

These features, together with good distance, range simplicity of tuning, and high selectivity, can be had in the new circuits employing the filtered output principle. But only by using the best parts available are such sets successful—in other words by using the new Emmco parts just on the market.



## marvelous tone

The whole secret of filtered output and marvelous tone lies in the component parts. They must be finely made and sensitive to the smallest impulses, without distorting the sound. Only with Emmco's new apparatus just on the market can one be successful with a filtered circuit.



Emmco Back of Panel Mounting by Variable Dial ..... 4/6



Emmco Stretching Condenser 12/-



Emmco Bridge Transformer 13/6



Emmco Lens ..... 7/6



Emmco Balanced Valve Socket 2/0



Emmco B Battery Eliminator £10/10/0

**EMMCO**  
APPARATUS  
MADE BY  
**ELECTRICITY METER**  
MFG. CO., LTD.  
SYDNEY N.S.W.



# Put the Pep into Your Set

## BY INSTALLING THE "Empire" Audio Frequency Transformer.

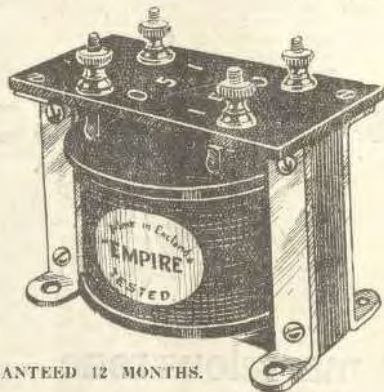
The core is made up of the best Stalloy Iron, and only the best material used throughout.

Low Self Capacity gives uniform amplification over the whole band of useful frequencies. Small in size, but big in performance.

MADE IN ONE SIZE ONLY ..... 4 to 1 RATIO

**10/6**  
EACH

The Price is  
Right



**10/6**  
EACH

The Article is  
Right

GUARANTEED 12 MONTHS.

### RADIO ACCESSORIES

We are distributors of well-known brands of quality Radio Accessories, such as Menominee, Emico, Radioko, Grodan, Irganic, Airzone, Muter, Pilot, Advance, Accessories; Balkite, Philip's and Tungar Charges, Philip's, Radiotron, Mullard, Coscor and De-Forrest Valves; Amplon, Brown and Crossley Loud Speakers, Ever Ready, Columbia, Burgess and Philco Batteries, C.A.V., Clyde, Exide and Willard Accumulators, etc., etc.

### ALL GOODS SOLD WITH OUR GUARANTEE

WE pay carriage throughout N.S.W. on Radio Goods other than Batteries, Speakers, Valves, Cabinets, Receivers, and Value Payable Post.

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MAIL ORDER DEPT.: 60 GOULBURN STREET.

# BROADCASTING PROGRAMMES

for the COMING WEEK

**Friday, May 20**  
**2FC, SYDNEY**  
 Farmer's Broadcasting Service.  
 Wave Length, 442 Metres.

### MIDDAY SESSION

- 12 noon—"Big Ben" and announcements.  
 12.15 p.m.—Stock Exchange, first call.  
 12.45 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.  
 12.55 p.m.—Studio music.  
 1.00 p.m.—A talk on home cooking and reception by Miss Ruth Davis.  
 1.15 p.m.—Miss Florence Grant, soprano: "Hymns for ever" (Chorus).  
 1.25 p.m.—Summary of "Sydney Morning Herald" news service.  
 Regular wireless news.  
 1.25 p.m.—Studio music.  
 1.30 p.m.—"Big Ben" and weather intelligence.  
 1.35 p.m.—"Evening News" midday news service.  
 Professor Distributing Society's Report.  
 1.40 p.m.—Studio music.  
 1.45 p.m.—Stock Exchange, second call.  
 1.50 p.m.—Marching music for school children.  
 1.55 p.m.—Miss Florence Grant, soprano: "A Little Less Now" (Solo).  
 1.55 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 pianoforte reproduction of the "Believing" Player Piano.  
 3.15 p.m.—Some new records.  
 3.15 p.m.—Miss Genevieve Egan, soprano: "A heart that's free" (Solo).  
 3.30 p.m.—Popular records.  
 3.35 p.m.—Marching music for school children.  
 3.40 p.m.—FROM FARMER'S TEA ROOMS:  
 Miss Ellen Moxley, soprano: "Dream Boat" (Solo).  
 3.45 p.m.—A Dickens' Reading by Mr. A. E. Costain.

- 4 p.m.—"Big Ben."  
 FROM FARMER'S TEA ROOMS:  
 Miss Winnie Humphreys, guitarist: "Look down, Dear Elsie" (Solo).  
 4.15 p.m.—Dulciana solo by Mr. Ewart Clarke.

- 4.15 p.m.—A Pianoforte Reproduction:  
 4.25 p.m.—FROM FARMER'S TEA ROOMS:  
 Miss Ellen Moxley, soprano: "Reason of Joy" (Solo).  
 4.30 p.m.—Miss Genevieve Egan, soprano: "My Bird of April Days" (Solo).  
 4.35 p.m.—Studio music.  
 4.40 p.m.—FROM FARMER'S TEA ROOMS:  
 Miss Muriel Humphreys, guitarist: "A Heart that's Free" (Solo).  
 4.45 p.m.—Pianoforte reproductions.  
 5 p.m.—"Big Ben." Close down.

### EARLY EVENING SESSION

- 5.15 p.m.—The Chimes of 2FC.  
 5.30 p.m.—"The Holy Man" talks to the children.  
 5.55 p.m.—A serial story: "David's Big Brother."  
 6.15 p.m.—Dinner music.

- 7 p.m.—"Big Ben" last minute sporting information by the 2FC Racing Commentator.  
 7.10 p.m.—Dulciana's Market Reports (Wool, wheat and stock).  
 7.15 p.m.—Fruit and vegetable markets.  
 7.20 p.m.—Weather and shipping intelligence.  
 7.30 p.m.—Stock Exchange.  
 7.35 p.m.—Late "Evening News" cover news.

### EVENING SESSION

- 7.45 p.m.—Programme announcements.  
 7.45 p.m.—A talk on Bridge by Mr. Graham Scott, No. 2 of the series concerning Conventions.  
 8 p.m.—"Big Ben."  
 FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:  
 Items by the Orchestra.  
 8.10 p.m.—Mr. Sydney Calland, baritone: "Have you news of my big Jack?" (Opera).  
 8.15 p.m.—The Neapolitan Duo: Mr. Len Gibson, mandolin, and Mr. Charles Bakerston, Spanish guitar: (a) Duo, "The Bohemian" (Russia); (b) Mandolin solo, "Sabbat of Amour" (Italy); (c) Duo, "Over the Waves."  
 8.22 p.m.—Miss Shirley Cooke, contralto.  
 8.30 p.m.—Mr. Scott Alexander to a radio lecture.  
 8.45 p.m.—Mr. Sydney Calland, baritone: (a) "A Pig of Roses" (Colman); (b) "Pals" (Sullivan).  
 9.15 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:  
 Orchestral items.  
 9.25 p.m.—Mr. Ted Turpell, comedian and mimic.  
 9.3 p.m.—Miss Shirley Cooke, contralto.  
 9.55 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:  
 Orchestral items.  
 9.55 p.m.—Mr. Sydney Calland, baritone: FROM THE STUDIO: "Hing to me in a Mine Key" (Andante).

- 9.55 p.m.—The Neapolitan Duo: Mr. Len Gibson, mandolin, Mr. Charles Bakerston, Spanish guitar: (a) Duo, "The Bohemian" (Russia); (b) Mandolin solo, "Sabbat of Amour" (Italy); (c) Solo guitar solo, Mr. Charles Bakerston.  
 10.05 p.m.—Mr. Ted Turpell, comedian and mimic.  
 10.25 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:  
 Orchestral items.  
 10.45 p.m.—FROM THE STUDIO:  
 Miss Shirley Cooke, contralto.  
 10.55 p.m.—A Representation of Wagner's famous opera "LOHENGRIN" by means of the H.M.V. special sets of gramophone records.  
 10.45 p.m.—Late news and announcements.  
 10.45 p.m.—FROM THE WENTWORTH (CAPE CHURCH HILL, SYDNEY):  
 Items by the new Wentworth Symphonic Dance Orchestra, conducted by Mr. Frederick Lightfoot.  
 11 a.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY.

Broadcaster's Ltd.  
 Wave Length, 353 Metres.

### Friday.

- 12 noon.—G.P.O. Clock and Chimes.  
 12.15 p.m.—Special News Forecast with Weather report.  
 12.3 p.m.—Information Mails and Shipping and movement of important ships.  
 12.6 p.m.—Sydney Stock Exchange calls.  
 12.8 p.m.—Hats in rail by wireless.  
 12.10 p.m.—Musical programme from the Studio.  
 12.20 p.m.—Fruit Market report.  
 12.25 p.m.—Vegetable Market report.  
 12.35 p.m.—London Metal Market report.  
 12.45 p.m.—Dairy and Farm Produce Market report.  
 12.55 p.m.—Racing review.  
 12.55 p.m.—G.P.O. Clock and Chimes.  
 12.55 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Sporting information from the Studio.  
 12.45 p.m.—Hiller's Instrumental Quartet, direction Carol Costello.  
 1.30 p.m.—G.P.O. Clock and Chimes.  
 1.35 p.m.—News from the "Six."  
 1.40 p.m.—Musical programme from the Studio.  
 1.50 p.m.—News from the "Six."  
 2 p.m.—G.P.O. Clock and Chimes.  
 Racing information broadcast immediately after each race, by courtesy of the "Six."  
 2.1 p.m.—Talk to Children and Special entertainment for Children in Hospital.  
 2.10 p.m.—Musical programme from the Studio.  
 2.20 p.m.—WOMEN'S SESSION (Conducted by Mrs. Jordan).  
 Talk on "Crocquet" by Miss G. Yarrow, Broadcaster's Women's Sports Authority.  
 Talk on "Feeding the Family" by Mrs. Jordan.  
 3 p.m.—G.P.O. Clock and Chimes.

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

- 2FC.—Farmer's Broadcasting Station, Ltd., Sydney, wavelength 442 metres, power 5000 watts.  
 2BL.—Broadcaster's Ltd., Sydney, wavelength 353 metres, power 5000 watts.  
 2GL.—Theosophical Broadcasting Station, Ltd., Sydney, wavelength 516 metres, power 400 watts.  
 2LV.—Trades and Labor Council, Sydney, wavelength 298 metres, power 1500 watts.  
 2LW.—Gita band, Sydney, wavelength 267 metres, power 500 watts.  
 2MK.—Mackler Bros., Bathurst, wavelength 275 metres, power 250 watts.  
 2LE.—Electrical Utilities Supply Co., Sydney, wavelength 294 metres, power 250 watts.  
 2RE.—Burgin Electric Co., Sydney, wavelength 276 metres, 100 watts.  
 2HD.—M. A. Douglas, Newcastle, wavelength 298 metres, 100 watts.

- 3.1 p.m.—Musical programme from the Studio.
- 3.15 p.m.—Civil Service Stores Trio, direction, Miss De Courcy Bremer.
- 3.25 p.m.—G.P.O. Clock and chiming.
- 3.31 p.m.—Talk on "The Grand Opera," illustrated by H.M.V. Records.
- 3.50 p.m.—News from the "Sun."
- 4 p.m.—G.P.O. Clock and chiming.
- 4.1 p.m.—Civil Service Stores Trio.
- 4.15 p.m.—Serial Story.
- 4.30 p.m.—G.P.O. Clock and chiming.
- 4.35 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 Societies' Fruit and Vegetable Market report.
- 4.54 p.m.—Resume of night's programme.
- 4.55 p.m.—Announcements.
- 4.55 p.m.—Special Ocean forecast.
- 5 p.m.—G.P.O. Clock and Chimes.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chimes.
- 5.46 p.m.—Uncle George and the Kiddlees.
- 5.49 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SERVICE.

- 7 p.m.—G.P.O. Clock and Chimes.
- Australian Merantile Land and Finance Co.'s report.

Weather report and forecast, by courtesy of Government Meteorologist.

Producers' Distributing Societies' Fruit and Vegetable Market report.

Stock Exchange reports.

Grain and Fodder report ("Sun").

Dairy Produce report ("Sun").

7.15 p.m.—Country news from the "Sun."

7.30 p.m.—Talk on "Gardening Science," by Mr. George Cooper, Park Superintendent, City Council.

8 p.m.—G.P.O. Clock and chiming.

Broadcasters' Tonal Chorus.

8.3 p.m.—Broadcasters' Trio.

8.13 p.m.—Miss Eileen Gilbert, (comedienne).

8.20 p.m.—Miss Heather Kinaird, (contralto).

8.27 p.m.—Broadcasters' sports expert will talk on "Football."

8.42 p.m.—Mr. Reg Harrison, (comedian).

8.49 p.m.—Miss Mab. Fotheringham, (soubrette).

8.56 p.m.—Resume of following day's programme, weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.

9 p.m.—G.P.O. Clock and chiming.

9.1 p.m.—Broadcasters' Trio.

9.11 p.m.—Messrs. Stan Hudson and Al J. Lawrence.

9.21 p.m.—The Sporting Editor of the "Sun" will talk on the prospects of Saturday's racing.

9.31 p.m.—Mr. Leonard Marx, (baritone).

9.58 p.m.—Miss Eileen Gilbert.

10.3 p.m.—Broadcasters' Trio.

10.15 p.m.—Miss Heather Kinaird.

10.22 p.m.—News Items by Courtesy of the "Sun" newspaper.

10.30 p.m.—Mr. Reg Harrison.

10.37 p.m.—Miss Mab. Fotheringham.

10.44 p.m.—News Items.

10.50 p.m.—Mr. Leonard Marx.

11 p.m.—G.P.O. Clock and chiming.

National Anthem.

2GB, SYDNEY

Theosophical Broadcasting Service.

Wave Length, 315 Metres.

Friday.

- 9 a.m.—Music.
- 9.5 a.m.—Chorus Talk Mr. J. K. Powell.
- 9.15 a.m.—Psychological Class.
- 9.25 a.m.—Music.
- 9.40 a.m.—Health Talk.
- 9.45 a.m.—Music.
- 9.5 a.m.—Close down.
- 3.30 p.m.—Music.
- 3.37 p.m.—Talk.
- 3.55 p.m.—Music.
- 4.7 p.m.—Talk.
- 4.25 p.m.—Music.
- 5.50 p.m.—Children's Session, Miss Ima Barnes.
- 7 p.m.—Music.
- 7.5 p.m.—Talk.

- 7.15 p.m.—Music.
- 7.30 p.m.—Talk.
- 7.39 p.m.—Music.
- 7.50 p.m.—Talk to Man.
- 7.59 p.m.—Announcements.
- 7.55 p.m.—Instrumental Trio, MONICA HORDER, MURIELLE LANG, ADA BROOK.
- 8.5 p.m.—Address by Professor Ernest Wood.
- 8.30 p.m.—Songs.
- 8.24 p.m.—An hour with the SGB String Quartette; Lloyd Davley, Monica Horder, Charles Bonit, Murielle Lang.
- 9 p.m.—Topical Talk.
- 9.15 p.m.—Fiancés Ada Brook.
- 8.22 p.m.—A Comedy by the WALTER HUNT COMPANY.
- 9.43 p.m.—Songs.
- 9.53 p.m.—Chorus Talk.
- 10 p.m.—Close down.

2QG, BRISBANE

Queensland Radio Service.

Wave Length, 385 Metres.

Friday

- MIDDAY SESSION.
- 1.0 p.m.—Market Reports; Weather Information "The Daily Mail" and "The Daily Standard" News.
- 1.20 p.m.—From Hotel Carlton; Luncheon Music played by Hotel Carlton Symphony Orchestra.
- 1.35 p.m.—From the Observatory: Standard Time Signal.
- 2.0 p.m.—Close Down.

AFTERNOON SESSION.

Y.W.C.A. ANNUAL FAIR.

The Young Women's Christian Association's "Old English Fair" will be held in St. Andrew's Hall, Creek Street.

The opening ceremony will be performed by Mr. James Allan.

During the afternoon a description of the fair will be broadcast, and a musical programme will be provided.

2.30 p.m.—From St. Andrew's Hall; Y.W.C.A. Old English Fair.

4.15 p.m.—From the Studio: "Telegraph"

4.30 p.m.—Close Down.

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

- 3LD.—Broadcasting Company of Australia, Ltd., Melbourne, wavelength 371 metres, power 5000 wats.
- 4BG.—Queensland Radio Service, Brisbane, wavelength 385 metres, power 4000 wats.
- 4CL.—Central Broadcasters' Ltd., Adelaide, wavelength 395 metres, power 5000 wats.
- 6W.—Westralian Farmers, Ltd., Perth, wavelength 1250 metres, power 3500 wats.
- 7ZL.—Tasmanian Broadcasters, Ltd., Hobart, wavelength 535 metres, 2000 wats.
- 2AB.—Associated Radio Co., Ltd., Melbourne, wavelength 484 metres, power 1000 wats.
- 3DB.—Drainage Business and Technical College, Melbourne, wavelength 255 metres, power 500 wats.
- 3TZ.—O. J. Nihon & Co., Melbourne, wavelength 315 metres, power 100 wats.
- 4GE.—Gold Radio Electric Service, Townsboro, Queensland, wavelength 284 metres, power 100 wats.
- 2KA.—Sport Radio Broadcasting Station, Adelaide, wavelength 250 metres, power 1000 wats.
- 2DN.—SDN Pty. Ltd., Adelaide, wavelength 213 metres, 200 wats.

EARLY EVENING SESSION.

- 6.0 p.m.—"Daily Standard" News; Weather Information; Announcements.
- 6.30 p.m.—Bedtime Stories, by "The Sandman."
- 7.0 p.m.—Market Reports; Stock Reports.
- 7.30 p.m.—Weather News; Announcements.
- 7.45 p.m.—Handed Time Signal.

NIGHT SESSION.

W.E.A. MUSIC CLASS.

The Workers' Educational Association being held this season in the Reception Hall at 49C, and are being conducted by Mr. George Sampson, Musical Advisor, Department of Public Instruction; Lecturer in Music, Teachers' Training College.

The object of holding the classes at 49C is to broadcast both the lectures and the music, and to make available to a large audience the educational matter placed before the students. The classes will extend over a period, and will be held each Friday night.

The ordinary lecture 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 each lecture.

The following artists will illustrate Mr. Sampson's lecture: (soprano) Miss Vada Jeffries (first violin), Miss Lawrie (second violin), Miss Gwen de Gint (violin), Miss Mary Jeffries (cello), Miss Colledge (piano).

7.15 p.m.—From the Reception Hall: W.E.A. Music Class.

9.0 p.m.—Week-end Read Information for Motorists officially supplied by the Royal Automobile Club of Queensland.

9.15 p.m.—SILKESTONE APOLLO CLUB.

The second portion of the programme will be provided by the Silkestone Apollo Club (conductor, Mr. T. Westwood). Male Chorus, "Fadler's Chorus" (from "Fads"—Gounod), Silkestone Apollo Club; tenor solo, "Mary of Argyle" (Neilson), Mr. T. Westwood; male chorus, "Softly, Softly Over the Sea" (Percey), Apollo Club; choral solo, "The Olden Days" (D. Owen); male chorus, "The Volga Boatmen's Song" (Grenville Bantock), Apollo Club; baritone solo, "My Wishes for You" (Marsh Lisle), Mr. Little; pianoforte solo, selected, Miss Thelma Marsh; male chorus, "Evening" (Sullivan), Apollo Club; duet, "Life's Dream is Over, Farewell" (Ascher), Messrs. A. Westwood & J. Jones; solo, "My My Head Beneath a Rose" (Falkenberg), Mr. A. Elliott; male chorus, (a) "In the Evening," (b) "I Don't Care So Much About the Sunshin'" Apollo Club; bass solo, "The Windmill" (Nelson), Mr. V. Morris; quartette, "Land of the Long Ago" (Liljan Parry), quartette party; male chorus, "The Crusaders" (Prohseher), Apollo Club.

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

5CL, ADELAIDE.

Central Broadcasters, Ltd.

Wave Length, 335 Metres.

Friday.

- MORNING SESSION.
- 12 noon.—G.P.O. chimes.
- 12.1 p.m.—News on the New Reproducing Sonora and the Autophone Reproducer.
- 12.35 p.m.—Adelaide news service.
- 12.50 p.m.—Market reports.
- 1 p.m.—G.P.O. chimes.
- 1.1 p.m.—Musical programme continued.
- 2 p.m.—G.P.O. chimes and close down.
- AFTERNOON SESSION.
- 3 p.m.—G.P.O. chimes.
- 3.1 p.m.—From the Maple Leaf Cafe—Orchestral selections.
- 3.45 p.m.—From the Studio—Musical Items.
- 4 p.m.—G.P.O. chimes.



4.15 p.m.—From the Australia Falls—Continued.  
 4.30 p.m.—2.25 hrs. announcements.  
 4.50 p.m.—L.P.O. chimes and close down.

## EVENING SESSION

5 p.m.—G.P.O. chimes.  
 5.15 p.m.—Hilberts' music by the University Choir.  
 5.30 p.m.—Hilberts.  
 5.45 p.m.—Hilberts.  
 5.55 p.m.—Hilberts.  
 6 p.m.—Singing solo by "Macaronis."  
 6.15 p.m.—Sporting talk (Football), Mr. M. Johnston.  
 6.30 p.m.—G.P.O. chimes.  
 6.45 p.m.—Melodrama "Reddy O'Rourke."  
 6.55 p.m.—Song, Miss A. Harbour.  
 7.10 p.m.—Melodrama "Reddy O'Rourke."  
 7.20 p.m.—Hilberts.  
 7.30 p.m.—Hilberts.  
 7.45 p.m.—Song, Miss A. Harbour.  
 7.55 p.m.—Hilberts.  
 8.10 p.m.—Hilberts.  
 8.15 p.m.—Talk by Mr. W. B. Hill (District Agricultural Instructor).  
 8.30 p.m.—Saxophone solo, Mr. Leo Mitchell.  
 8.45 p.m.—Song, Miss A. Harbour.  
 8.55 p.m.—Hilberts.  
 9.10 p.m.—Song, Miss A. Harbour.  
 9.25 p.m.—Comedy, Mr. Geo. Nerson.  
 9.40 p.m.—Hilberts.  
 9.55 p.m.—Hilberts.  
 10.10 p.m.—Hilberts.  
 10.25 p.m.—Hilberts.  
 10.40 p.m.—Hilberts.  
 10.55 p.m.—Hilberts.  
 11 p.m.—G.P.O. chimes and close down.

10.30 p.m.—Dinner music.  
 11 p.m.—Late sporting information.  
 11.15 p.m.—Weather intelligence.  
 11.30 p.m.—Late "Evening News" news service.  
 11.45 p.m.—Silent music.

## NIGHT SESSION

7.45 p.m.—Programme announcements.  
 7.55 p.m.—Silent music.  
 8 p.m.—"Big Ben." The 2FC Dance Band, conducted by Mr. Eric Pease, and assisted by the popular baritone, Mr. Len Maurice.  
 8.15 p.m.—The Radio Revels, introduced by Mr. Laurence Halbert, sing their opening chorus.  
 8.30 p.m.—Miss Gladys Finlay, vocalist.  
 "You've got your Mother's Eyes" (Dramatic).  
 8.45 p.m.—Mr. Frank Leonard, entertainer.  
 "My First Football Match" (Lemoore).  
 8.55 p.m.—Mr. Sydney Jones, "The Welsh Riddle" and Miss Gladys Finlay in a musical comedy.  
 9.10 p.m.—Miss Peggy Cook, soloist.  
 "Meadow Lark" (Fiddle).  
 9.20 p.m.—The 2FC Dance Band and the popular baritone, Mr. Len Maurice.  
 9.35 p.m.—Mr. Rex Gaelling in a radio lounge.  
 9.45 p.m.—Miss Gladys Finlay, soprano.  
 "You will never grow old" (Dramatic).  
 9.55 p.m.—Miss Edith Reed, contralto.  
 10.10 p.m.—Mr. Wally Balvo, vocalist.  
 10.25 p.m.—The 2FC Dance Band, conductor.  
 Mr. Rex Gaelling.  
 10.40 p.m.—Mr. Frank Leonard, entertainer.  
 "A slithering process" (Lee-Weston).  
 10.55 p.m.—Miss Kitty Poole, male impersonator.  
 "Oh! New I ask you is that nice?" (Melodrama).  
 11.10 p.m.—"Mr. Mober" (Role).  
 11.25 p.m.—Mr. Sydney Jones, and Miss Gladys Finlay, entertainers.  
 11.40 p.m.—Miss Gladys Finlay, soprano.  
 "Summer Rain" (Wibourey).  
 11.55 p.m.—The 2FC Dance Band.  
 12.10 p.m.—Mr. Wally Balvo, comedian.  
 12.25 p.m.—Mr. Frank Leonard, entertainer.  
 "The old English Gentleman" (Newman).  
 12.40 p.m.—The 2FC Dance Band.  
 12.55 p.m.—Miss Gladys Finlay, soprano.  
 "Kiss in the Rain" (Foster) (song).  
 1.10 p.m.—Mr. Sydney Jones, "The Welsh Riddle" and Miss Gladys Finlay, entertainers.  
 1.25 p.m.—Miss Edith Reed, contralto.  
 1.40 p.m.—Mr. Wally Balvo, comedian.  
 1.55 p.m.—The 2FC Dance Band.

12.55 p.m.—Miss Peggy Cook, soloist.  
 (a) "I Want You" (O'Meara).  
 (b) "Kentucky Way."  
 1.10 p.m.—Mr. Rex Gaelling in a humorous interview.  
 1.15 p.m.—Miss Edith Reed, contralto.  
 1.20 p.m.—Mr. Frank Leonard, entertainer.  
 "You'll what you are for" (Lee-Weston).  
 1.25 p.m.—The 2FC Dance Band and the popular baritone, Mr. Len Maurice.  
 1.30 p.m.—Miss Kitty Poole, male impersonator.  
 "My Pal Jerry" (Role).  
 (b) "Swimming Hole" (Wilkes).  
 1.35 p.m.—The 2FC Dance Band.  
 1.40 p.m.—Late sporting news and announcements.  
 1.45 p.m.—The 2FC Dance Band in popular numbers until 11 o'clock.  
 11 p.m.—FROM THE WESTWATER CAFE, GURCH HILL, SYDNEY: The New West—worth symphony, Dance Orchestra, Conductor, Mr. Frederick Lemoore.  
 11.45 p.m.—National Anthem.  
 Close down.

## 2BL, SYDNEY.

## Saturday.

12 noon—G.P.O. Chime and chimes.  
 12.15 p.m.—Special Dawn forecast and weather report.  
 12.3 p.m.—Musical programme from the studio.  
 12.45 p.m.—News from the "Sun."  
 12.55 p.m.—"Woman's Session" (Conducted by Mrs. Jordan) Special Notes.  
 Replies to correspondents.  
 Talk on "Simple Cooking for Children" by Mrs. Jordan.  
 1 p.m.—Musical programme from the studio.  
 1.15 p.m.—Talk on Sporting and athletic fixtures for the day. Lawn Tennis, Hockey, Tennis, Football, Boxing, etc. During the afternoon sporting information will be broadcast by courtesy of the "Sun" Newspapers, interspersed with musical programmes from the studio. During the afternoon a description of the Soccer Football Match will be broadcast from the Agricultural Ground.  
 1.45 p.m.—Results of night's programme.  
 2 p.m.—G.P.O. Chime and chimes.  
 2.15 p.m.—Hilberts.  
 2.30 p.m.—Close down.

## EARLY EVENING SESSION

5.45 p.m.—G.P.O. Chime and chimes.  
 5.55 p.m.—Eric George and the Kiddies.  
 6.10 p.m.—Musical programme from the studio.  
 6.15 p.m.—Results of all sporting information, including racing, Soccer, Tennis, Swimming, Athletics, by courtesy of the "Sun."  
 7.30 p.m.—Country news from the "Sun."  
 7.45 p.m.—Talk by Miss Bill-Meyer.  
 8 p.m.—G.A. show and show.  
 Broadcaster, Topical Chime.  
 8.15 p.m.—Miss Hazel Sorrell, soprano.  
 8.30 p.m.—Mr. C. King, male impersonator.  
 8.45 p.m.—Miss Grace Saville, (contralto).  
 8.55 p.m.—Mr. Herman Tompkins, (comedian).  
 9.10 p.m.—Broadcasting from Manurewa speedway.  
 9.25 p.m.—Results of following day's programme.  
 9.40 p.m.—G.P.O. chime and chimes.  
 9.55 p.m.—Broadcasting from Manurewa speedway.  
 10.10 p.m.—Mr. C. King.  
 10.25 p.m.—Broadcasting from Manurewa speedway.  
 10.40 p.m.—Miss Grace Saville.  
 10.55 p.m.—Broadcasting from Manurewa speedway.  
 11.10 p.m.—Mr. Herman Tompkins.  
 11.25 p.m.—Broadcasting from Manurewa speedway.  
 11.40 p.m.—The Antipodean Three Band broadcast from the fallow of the Antipodean. (Between 11.45 and 11.55 p.m.) "Sun" news will be broadcast.  
 11.55 p.m.—G.P.O. Chime and chimes.  
 National Anthem.

Saturday, May 21  
2FC, SYDNEY

## MIDDAY AND AFTERNOON SESSION

12 noon—"Big Ben" and programme announcements.  
 12.15 p.m.—Stock Exchange information.  
 12.3 p.m.—Official weather forecast, rainfall, temperature, atmospheric conditions, shipping intelligence, mail services.  
 12.45 p.m.—Hilberts.  
 12.55 p.m.—Talk on Gardening by Mr. G. J. Lockley ("Badger").  
 1.10 p.m.—Silent music.  
 1.15 p.m.—"Coding Message Hazard" news service.  
 1.25 p.m.—Hilberts.  
 1.35 p.m.—Hilberts.  
 1.45 p.m.—Hilberts.  
 1.55 p.m.—Hilberts.  
 2 p.m.—"The Bell" Close down.

## EARLY EVENING SESSION

5.45 p.m.—The Chime of 2FC.  
 5.55 p.m.—"The Hello Man" talk to the children.  
 6.10 p.m.—Talk on "Story for the older child" "Hello Mr. Pringle."

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. Silent  
Night, Thursday.

3YA, Christchurch, The Radio  
Broadcasting Co. of New  
Zealand, Ltd.

Power 500 Watts; Wave-  
length, 400 Metres. Silent  
Night, Thursday.

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

Power 750 Watts; Wave-  
length, 380 Metres.  
2YM, The Gisborne Radio Co.,  
Gisborne.

Power 50 Watts; Wave-  
length, 200 Metres.

## 3AR, MELBOURNE

Associated Radio Co.

Wave Length, 484 Metres.

## Saturday.

## MORNING SESSION.

- 11 a.m.—Selections on the Brunswick Pan-tropic.
- 11.30 a.m.—British Official Wireless Press received from Rugby Wireless Station, England.
- Express train information.
- "Age" news bulletin, exclusive to 3AR.
- 12 noon.—Time signal chime from G.P.O.
- Studio barometer and outdoor thermometer readings.
- First weather forecast.
- Events of the day.
- 12.15 p.m.—Musical selections from the Studio.
- 12.30 p.m.—Stock Exchange news.
- Market reports.
- Foreign Exchanges of the world, supplied by the courtesy of Messrs. Thom. Cook and Sons.
- 12.40 p.m.—Musical selections from the Studio.
- 12.55 p.m.—Mail notices.
- Shipping movements.
- 1 p.m.—Close down.

## AFTERNOON SESSION.

## WILLIAMSTOWN RACING CLUB.

- 2 p.m.—Description Korot Hurdle (from Williamstown).
- 2.30 p.m.—Studio Orchestra, under the direction of Mr. Ronald Breasley; "Concerto for the Violin Concerto" (Tschakowsky).
- 2.55 p.m.—Description Juvenile Handicap (from Williamstown).
- 3.10 p.m.—Miss Freda Treweek, mezzo-soprano; "Songs My Mother Taught Me" (Dvorak), "Cradle Song" (Schubert).
- 3.25 p.m.—Studio Orchestra; "Liebesfreud" (Kreutzer).
- 3.4 p.m.—Mr. Ronald Breasley, cellist; "Dance Rustique" (Suzie).
- 3.10 p.m.—Description Bayview Handicap (from Williamstown).
- 3.12 p.m.—Studio Orchestra; "A Love Song" (Bartlett).
- 3.15 p.m.—Mr. Rush and Miss Treweek; Vocal duet, "O wert thou in cauld' blast" (Mendelssohn).
- 3.20 p.m.—Studio Orchestra; "Little Serenade" (Grünfeld).
- 3.25 p.m.—Miss Freda Treweek, mezzo-soprano; "Lass with a delicate arm" (Arne).
- 3.45 p.m.—Description Autumn Steeplechase (from Williamstown).
- 3.49 p.m.—Studio Orchestra; "Largo from Beethoven's Sonatas op. 10."
- 4 p.m.—Time signal chime from G.P.O.
- Second weather forecast.
- Mr. Rush, bass; "Tally Ho" (Franco Leoni), "Youth" (Allisten).
- 4.2 p.m.—Studio Orchestra; "Serenade" (Saint Saens).
- 4.15 p.m.—Description Goldbrand Handicap (from Williamstown).
- 4.20 p.m.—Mr. B. Pettifer, violinist; "Aria for C String" (Bach).
- 4.24 p.m.—Studio Orchestra; "A Finnish Lullaby" (M. Krook).
- 4.35 p.m.—Mr. Rush and Miss Treweek; Vocal duet, "Wanderers' Night Song" (Rubenstein).
- 4.39 p.m.—Studio Orchestra; Selections.
- 4.45 p.m.—Description Beach Weller (from Williamstown).
- 4.50 p.m.—Evening Announcement Guide.
- 5 p.m.—Time signal chime from G.P.O. Close down.

## EARLY EVENING SESSION.

- 6.45 p.m.—Children's corner—"Uncle Mac."
- EVENING SESSION.
- 8 p.m.—Time signal chime from G.P.O.
- Studio barometer and outdoor thermometer readings.
- British Official Wireless Press.
- Final sporting results.
- Local news.
- 8.10 p.m.—Dance Night. The Dance Orchestra relayed from Leggett's Ball Room, Prahran, latest music under the leadership of Mr. Harry Nangle.
- 8.30 p.m.—Week-end travelers' information, supplied by courtesy of Victorian Railways Department.
- 9.50 p.m.—Leggett's Orchestra.
- 11 p.m.—Time signal chime from G.P.O.
- Studio barometer and outdoor thermometer readings.
- 10.5 p.m.—Leggett's Orchestra.
- 11 p.m.—Time signal chime from G.P.O. Close down.

## 4QG, BRISBANE

## Saturday

## NO MIDDAY TRANSMISSION.

## AFTERNOON SESSION.

- 3.25 p.m.—Time-in.
- 3.30 p.m.—A Matinee for Little Listeners by "Miss Waratah."
- 3.30 p.m.—Close Down.
- 4.30 p.m.—Bedtime Stories by Uncle Ben and Uncle Jim.
- 7.15 p.m.—Racing Results.
- 7.20 p.m.—To-day's Football Play Described.
- 7.45 p.m.—Selling Notes by Mr. P. Smith.
- 7.55 p.m.—"Zooing and Fencing" by Mr. R. A. Melania (Chairman, Executive Committee, Town Planning Association of Queensland).

## NIGHT SESSION.

## VIOLIN RECITAL.

- "The whole of to-night's programme will comprise a recital arranged by Mr. Luis Amadeo Pares and relayed from 'The Hall of the Muses.'"
- 8.0 p.m.—From the Hall of the Muses; Piano-forte solo, "Fantasia Improvisita" (Chopin), Miss Gertrude Anderson; violin duo (by request), "Minuet in G Major" (Beethoven), Messrs. Tom Winstone and Luis A. Pares; song, "Nocturne" (Gradski), Madam Dolbeare; violin duo, "Lark Divine" (Pia-colongo), violin duo, "Lark Divine" (Pia-colongo), Messrs. Ken Mackenzie and Luis A. Pares; eleventh number, "The Call of the Bush" (Marvis), Mr. H. B. Gleeson; eleventh number, selected, Mr. Phillip O'Brien Hoare; violin solo, "Oberon" (Wieniawski), Mr. Eddy Raseby; song, selected, Mrs. Gundersen; zylphonon solo, selected, Mr. H. Engelhardt; violin and flute duet, "Serenade" (Gounod), M. Luis Amadeo Pares and Mrs. W. P. A. Gray; song, "Vivante" (Del Agna), Madam Dolbeare; violin solo, "O Solo Mio," Miss Pauline Gebenke; instrumental and vocal duet,

"The Auld House," Mr. and Mrs. Dell; violin solo; (a) "Minuet in E-flat" (Beethoven), (b) "Spanish Serenade" (Chaminade-Kreisler), (c) "Jota Aragonesa" (Saracate), Mr. Luis A. Pares; solo, selected, Mrs. Gundersen.

During the evening the main races at the Speedway will be described.

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

## 5CL, ADELAIDE.

## Saturday.

## MORNING SESSION.

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

## AFTERNOON SESSION.

- 12.45 p.m.—From Gawler Racecourse, a running description of the races by Mr. Arnold Treloar, interspersed with football and interstate sporting results.
- 5.20 p.m.—Close down.

## EVENING SESSION.

- 6 p.m.—G.P.O. chimes.
- 6.1 p.m.—Relay from Covent Garden Restaurant—Orchestral selections.
- 6.45 p.m.—Bedtime stories.
- 7.30 p.m.—Market reports by Messrs. S. C. Ward and Co., A. E. Hall and Co., A. W. Sandford and Co., Balgony and Co., S.A. Farmers' Coop. Union, Taylor Bros.
- 7.40 p.m.—Sporting results.
- 8 p.m.—G.P.O. chimes.
- 8.1 p.m.—Mrs. A. C. Williams' Mandolin Band.
- 8.4 p.m.—Violin solo, Mr. James Glennon.
- 8.7 p.m.—Carmichael's Dance Orchestra.
- 8.30 p.m.—Recitation, Mr. Stephen Dunke.
- 8.34 p.m.—Mrs. A. C. Williams' Mandolin Band.
- 8.57 p.m.—Violin solo, Mr. James Glennon.
- 8.40 p.m.—Bass solo, Mr. Harold Durdin.
- 8.46 p.m.—Mrs. A. C. Williams' Mandolin Band.
- 8.49 p.m.—Recitation, Mr. Stephen Dunke.
- 8.55 p.m.—Piano-forte solo, Mr. Lawrence Haggitt.
- 9 p.m.—G.P.O. chimes.
- 9.1 a.m.—Daily's wheat report.
- 9.4 p.m.—Carmichael's Dance Orchestra.
- 9.20 p.m.—Violin solo, Mr. James Glennon.
- 9.24 p.m.—Bass solo, Mr. Harold Durdin.
- 9.31 p.m.—Recitation, Mr. Stephen Dunke.
- 9.34 p.m.—Song, Miss Mabel Buchan.
- 9.37 p.m.—Mrs. A. C. Williams' Mandolin Band.
- 9.55 p.m.—Piano-forte solo, Mr. Lawrence Haggitt.
- 10 p.m.—G.P.O. chimes.
- 10.1 p.m.—"Advertiser" news service.
- 10.15 p.m.—Carmichael's Dance Orchestra.
- 10.30 p.m.—Recitation, Mr. Stephen Dunke.
- 10.55 p.m.—Song, Miss Mabel Buchan.
- 10.38 p.m.—Bass solo, Mr. Harold Durdin.
- 10.42 p.m.—Violin solo, Mr. James Glennon.
- 10.46 p.m.—Carmichael's Dance Orchestra.
- 11 p.m.—G.P.O. chimes and close down.

## KFI (LOS ANGELES)—467 METRES.

Commencing at 5 p.m. and Closing

Down at 7 p.m. Sydney Time.

May 8th: Packard Six Orchestra.

May 10th: Melkiojohn Bros' Programme.

May 11th: Azure Music Club.

May 12th: Sunset Instrumental Quartet.

May 13th: Programme of Modern Classical Music.

May 14th: Packard Ballad Hour.

May 15th (commencing 8 p.m., closing

down at 8 p.m.): KFI Midnite Frolic

—Mooby's Divided Band Blowers.

## Sunday, May 22

## 2FC, SYDNEY.

10.55 a.m.—Programme announcements.

11 a.m.—FROM THE LYCEUM HALL:

MORNING SERVICE ARRANGED BY THE

CENTRAL METHODIST MISSION.

12.15 p.m.—From the Studio: News Session.

12.30 p.m.—Close down.

## AFTERNOON SESSION.

2.55 p.m.—Announcements.

3 p.m.—"Big Ben"—FROM THE BAND

ROTHINGA, RONDI BEACH:

Afternoon programme arranged by the

Rondi Beach Concert Band.

4.30 p.m.—Close down.

From icy Pole to Tropic Jungle: Burgess.

**BYRING SESSION.**

- 6.45 p.m.—"On the Radio" and programme announcements.
- 7.00 p.m.—"Miles and His Cathedral?" A talk by Mr. H. E. Bandy.
- 7.15 p.m.—BROADCAST FROM ST. ELEANOR'S CHURCH OF ENGLAND, 205-211, Queen's Road, by Mr. Arthur Mather; also Wagner's Overture from "The Master Song."
- (1) "Hail of Eve."
- (2) "Purton's Chorus" from "Tomb Raider."
- (3) "The Answer" (Wendell Phillips).
- (4) "The Angel Song."
- (5) "Song of the Night."

- 7.15 p.m.—Ecclesiastical Service from St. Clement's Church of England, Montreal. Choral Evensong and Special Address by the Rector: Canon, Quarrat and Gibson: "I will give Thanks" (Mozart).
- Messiah: A. Messiaen.
- Messiah: W. C. Jones and A. B. Bengley, and St. Clement's Choir.
- Special Offering solo: Reed and Air. "If With All Your Hearts" (Monteliaschi).
- W. C. Jones and Dr. Andrew's Cathedral Choir.

- Closing Voluntary: "Hallelujah from the Mount of Olives" (Mozart).
- 7.30 p.m.—FROM THE BAND ROTUNDA, HANLEY BRIDGE.
- Theme by the Manly Municipal Band; conductor, Mr. J. P. Leighton.

- 8.00 p.m.—FROM THE STUDIO.
- (1) Lillian Lawson, violin solo.
- (2) Mr. Oliver King, basso: "The Holy Child" (Martini).
- (3) Mr. Victor McMahon, Solo soloist: "Expulsion" (Kubler).
- (4) "Hilfen-Brüder" (Kubler).
- (5) Mr. Oliver King, basso: "Hymn to the Twelfth" (Bartok).
- (6) Mr. Victor McMahon, violin soloist: "Tumultuous" (Scriabin).
- (7) "Il Vanto" (Cassini de Concerto) (Brazzaville).
- (8) Mr. Oliver King, basso: "Daily Hail" (Liszt).
- (9) Mr. Linnel Lawson, violin solo.
- 11.25 p.m.—National Anthem.
- Close down.

**2BL, SYDNEY.**

**Sunday.**

- 12.45 a.m.—Special news service.
- 11 a.m.—Service broadcast from Chalmers Wesleyan Church.
- 1.05 p.m.—Organ recital broadcast from Chalmers Wesleyan Church.
- 1.15 p.m.—Bible Class conducted by Mr. W. Cairns, trustee.
- 1.35 p.m.—Class Dawn.
- 1.55 p.m.—Children's service.
- 7 p.m.—Service broadcast from St. Jude's Church of England, Bawdwick.
- 8.00 p.m.—from the studio. Mr. Raymond Farnoch (violinist).
- 8.15 p.m.—Mr. Leslie Herford, (baritone).
- 8.52 p.m.—Miss Madge Heinrich, (contralto).
- 9.15 p.m.—G.P.O. Clock and chimes.
- Home of following day's programme, weather report and forecast by courtesy of Mr. C. J. Mann, Govt. Meteorologist.
- 9.30 p.m.—Mr. William Frederick, (tenor).
- 1.00 p.m.—Miss Gladys Emma, (soprano).
- 9.45 p.m.—Broadcasters' Trio.
- 9.55 p.m.—Mr. Leslie Herford.
- 10.00 p.m.—Miss Madge Heinrich.
- 10.04 p.m.—Mr. William Frederick.
- 10.11 p.m.—Broadcasters' Trio.
- 10.15 p.m.—National Anthem.

**2GB, SYDNEY**

**Sunday.**

- 12.35 p.m.—Music from St. Alban's Liberal Church, Church.
- 12.50 p.m.—Service from St. Alban's Liberal Catholic Church, The Holy Eucharist. Sermon.
- 1.00 p.m.—Close down.
- 1 p.m.—Music from studio.

- 7.15 p.m.—Lectures from Adyar Hall.
- 8.15 p.m.—Instrumental Trio, MONICA BORDIER, HENK VERDEE, NORMAN INGAMKILL.
- 8.30 p.m.—Violin Solo, MONICA BORDIER. "Lament," Beethoven.
- 8.45 p.m.—"Chorus," etc. by Carl Engel.
- 8.50 p.m.—Trio.
- 9.0 p.m.—Instrumental Trio, MONICA BORDIER, NORMAN INGAMKILL, H.D. FREEDMAN.
- 9.15 p.m.—Close down.

**3LO, MELBOURNE.**

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

**Sunday.**

- MORNING SESSION.**
- 10.55 a.m.—Bells from St. Paul's Cathedral.
- 11.00 a.m.—Express train information.
- 11.15 a.m.—DELISH HITTAL, WILSON BROS.
- 11 a.m.—SERVICES from SCOTCH CHURCH, Praeger, Rev. Dr. William Barakat, Organist, Mr. Mann's Organ.
- Psalm 23: "Ye righteous in the Lord rejoice."
- Prayer.
- From Psalm 27: "The Lord is My Light and My Salvation."
- Old Testament Lesson, Job, 40 V.V. 1 and 2 and 42 v.v. 1-6.
- Hymn 113: "Spirit Divine, attend our Prayer, of Intercession."
- New Testament, Lesson 1, John 8 v.v. 1-2.
- Anthem, from "The Redemption."
- "Confite. Ye Portals Beating" (Gounod).
- The Lord's Prayer: (The Congregation standing will assist).
- SCRIPTURE—"Now & John 1, v. 9."
- Prayer.
- Intimations.
- Offering.
- HYMN—Solo.
- Hymn 150: "O Spirit of the Living God."
- Benediction.
- 12.15 p.m.—Close down.

- AFTERNOON SESSION.**
- 2.15 p.m.—Band Recital: BRUNSWICK CITY BAND, J. Nixon, Conductor.
- March, "The First Gunners" (Baltic).
- Overture: "Chanson Du Saup" (Vogner).
- "Schubert's Unfinished Symphony" (Hawkes).
- Ten-minute Solo: "The Winning Spirit" (Soloist J. Kane).
- Hymns: "Rockydale" (Overst).
- "Rock of Ages" (Redhead).
- Serenade: "A Night in June" (Bradwood).
- 3 p.m.—PLEASANT HOLIDAY AFTERNOON.
- WIRELESS SESSION—WEDGLEY CHURCH, (Chalmers, Rev. J. H. GAIN, Conductor, Mr. G. M. WILLIAMS, Organist, Selection).
- Hymn, "O King of Kings, O Lord of Hosts."
- Prayer, Rev. C. Irving Benson.
- Hymn, "God Bless Our Native Land."
- Solo, Mr. J. Alexander Brown: "O Favourite Inn" (Words by C. J. Dennis, "Music by William Jones).
- Orchestral Selection.
- Solo, Mr. J. Alexander Brown: "Land of Hope and Glory" (Allison).
- Noises.
- Offering.
- Orchestral Selection.
- ADDRESS: THE HON. MAJOR MAUR M.H.K. Minister for Home and Territories, "OUR EMPIRE R.E. ATONSHIPS."
- National Anthem.
- Benediction.
- 4.05 p.m.—Organ Recital by DR. FLOYD. Transmitted from St. Paul's Cathedral.
- 5.00 p.m.—"Agnus Dei" (Handel).
- "Agnus Dei" (Agnus Dei with a Synophony). (Haydn).
- Short Prelude and Fugue in E Minor (Bach).
- "Favourite in A" (Goldsmith).
- 5 p.m.—Close down.

- EVENING SESSION.**
- 6.40 p.m.—CHILDREN'S HOUR. Drama by "THE FIVE PIPERS": "Genie Jesus."
- 7.00 p.m.—"The Day is Dying in the West"
- 7.15 p.m.—"HILY BIRDY"
- "Fables for Little People."
- 7.30 p.m.—Musical programme by "THE FIVE PIPERS": "Quartet: Stone and Lash."
- Solo: "The Brightest Morning" (Lohrer, "Faire").
- Organ Solo.
- Solo with Chorus: "Lads Men."
- Chorus: "God so Lovers, the World Keeping Home, Tradition."
- 6.55 p.m.—Answers to Letters and Enquiries.
- 8.05 p.m.—CAPTAIN DONALD MACLEAN will tell the children many about Pirates.
- 8.45 p.m.—Bells from St. Paul's Cathedral.
- NIGHT SESSION.**
- ANNOUNCEMENT: ALGERND ANDREW Accompanist.
- ALGERND FOUTIER.
- 7.00 p.m.—SERVICE FROM TOMMAS PREBY.
- THIRISH CHURCH, 111, GARDNER ST.
- Predicator: Rev. William Gorman.
- Organist and Organist: Mr. James Hudson.
- Organ Voluntary.
- Solo with Solo: "Gloria, Holy, Holy."
- Invocation.
- Hymn 272: "Onward, Christian Soldiers."
- Old Testament Lesson.
- Prayer.
- From Psalm 27: "The Lord is My Light and My Salvation."
- New Testament Lesson.
- Solo: "O Lord, Have Mercy" (Mendelssohn).
- Solo by Mr. Ray Warren.
- Lord's Prayer.
- Hymn 308, "Hark, Hark, My Soul" (Caton).
- Offering.
- Organ Voluntary.
- Anthem: "I Waited for the Lord" (Mendelssohn).
- SERMON.
- Prayer.
- Hymn 332, "Sun of My Soul" (Benediction).
- Victory Hymn: "Hymn Evils Annul."
- Organ Voluntary.
- FROM THE STUDIO:**
- 8.30 p.m.—ST. AUGUSTINE'S BAND: Fantasia, "Twelfth Mass" (Mozart).
- 8.40 p.m.—MADAME LAMBERT, soprano: "Les Nations" (Massenet).
- "Eve" (Massenet).
- 8.42 p.m.—Memorial Card to the late ALBERTO ZILMAN, broadcast in behalf of the Melbourne Rotary Club.
- 8.50 p.m.—GEO. J. FINDLAY, Piano (Solo Exhibition): "Waltz in A Major" (Liszt).
- "Minuetto in G Major" (Schubert).
- 9 p.m.—STANLEY BRITTE, by permission of J. C. Williamson, Ltd.: "The Irish Psalm."
- "Les Deux".
- "Little Fairy Andie."
- "Edinburgh after Fadden" (John Fadden).
- 9.15 p.m.—ST. AUGUSTINE'S BAND: Intermezzo—"In a Mountainous Garden" (Kodaly).
- Cornet Solo: "Macaulay" (MacMurrugh).
- 9.25 p.m.—MADAME LAMBERT, soprano: "Agnus" (Debussy).
- "Duet" (Schumann).
- 9.50 p.m.—Piano Service information to other state shipping.
- 9.55 p.m.—ALFRED ACRLAND, Violin (Solo): "Kabbiliana" (Liszt).
- "Sonata F Major, 1st and 2nd Movement" (Handel).
- "Krieger Rondino" (Beethoven).
- "Meditation from Thais" (Massenet).
- 10.04 p.m.—Agnus Dei, news service. British official wireless news. Meteorological information. Announcements.
- 10.08 p.m.—ST. AUGUSTINE'S BAND: Overture, "The Carnival" (Suppe).
- 10.11 p.m.—OUR GREAT THOUGHT: "Life is like a game of waltz. I don't enjoy the game much; but I like to play my cards well and see what will be the end of it."—George Eliot.
- 10 p.m.—GOD SAVE THE KING.

Canada chose Burgess for her outposts.

3AR, MELBOURNE

Sunday.

MORNING SESSION.

11 a.m.—Service from Cairns Memorial Church, East Melbourne. Preacher, Rev. J. B. Dabb, B.A., B.D. Subject, "God's Mathematics." Organ Voluntaries: "Pastorale Springtime" (Hollaus), "Meditation" (Muller), "Finale" (Faulkes). Anthem, "Deus Misericordis" (Mannault). Sanctus, "Holy, Holy" (S. Elyza). Psalm 1. Tunes, St. Peter (A. R. Bouange), Benedicentes Chant (Steiner). Lord's Prayer (Chant (Steiner). Hymns: "The King of love my Shepherd is" (Daher), "If I come to Jesus" (Van Aldysen). Tune, "Woodbrook" (Jadach). "Glorious things of thee are spoken" (J. Newton).

AFTERNOON SESSION.

2 p.m.—Miss Joan Lewis, soprano: "The Market" (Molly Carrow). "Benny Boy" (Old Irish Air). 3 p.m.—Mr. John Bux, baritone: "Song of Hydras the Cretan" (Elliott). "I heard you go by" (Wood). 3.14 p.m.—Mr. Hamilton Bateman, violinist: "Dance of the Goblins" (Basselt). 3.21 p.m.—Miss Ivy Carlisle, soprano: "Elegie" (Massenet). "By the Waters of Minnetonka" (Ligonier). 3.28 p.m.—Mr. Arthur E. Watson, tenor: "Lerafel" (Ojiver King). "The Last Song" (James H. Rogers). 3.35 p.m.—Miss Louie Burton, contralto: "Lament of Lida" (Bantock). "The early morning" (Fell). 3.42 p.m.—Miss Violet Wood, pianist: "Klaviation" (Chaminade). "Pavillon" (Grieg). 3.45 p.m.—Miss Joan Lewis, soprano: "The Star" (Rogers). "A Castilian lament" (Del Riego). 3.55 p.m.—Mr. John Box, baritone: "The Floral Dance" (Moss). "Tally Ho" (Leont). 4.2 p.m.—Mr. Hamilton Bateman, violinist: "Ave Maria" (Schubert-Wilhelm). "The Prisoner's song" (Masset). 4.9 p.m.—Miss Ivy Carlisle, soprano: "Tomanca" (from "Cavalleria Rusticana" (Mascagni). "Only the River Running By" (Hopkins). 4.16 p.m.—Mr. Arthur B. Watson, tenor: "Harvest" (Del Riego). "Where'er you walk" (Händel). 4.23 p.m.—Miss Louie Burton, contralto: "But the Love is Mindful" (Benedictson). "Salama" (Lang). 4.50 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Children's entertainment—Ladies.

EVENING SESSION.

7 p.m.—Evening Service from Independent Church, Collins Street. Preacher, Rev. Hugh Lovell, M.A., B.D. Organist and conductor, Mr. Herbert Davis. String orchestra from Melbourne Symphony Orchestra. Hymn, "Sun of my Soul, Thine Saviour Dear." Invocation and Lord's Prayer. Scripture. Hymn, "My God, is any hope so sweet." Announcements and offering. Sermon, Rev. Hugh Lovell, M.A., B.D. Hymn, "Fight the good fight with all thy might." Cantata, "Callis" (Gounod). Soloist, Mrs. Williams. Hymn, "The Day Thou gavest, Lord is ended." Benediction.

5CL, ADELAIDE

Sunday.

MORNING SESSION.

11 a.m.—G.P.O. Chimes. 11.15 a.m.—From the Flinders Street Church, Divine Service. 12.20 p.m.—Close down.

EVENING SESSION.

6.30 p.m.—G.P.O. Chimes. 6.41 p.m.—Tune-in to Autotone. 6.50 p.m.—Sunday stories for children. 6.57 p.m.—From St. Bartholomew's Church, Norwood, Divine service. 7.15 p.m.—Bessie Larkins solo, Mr. B. Mellich. 8.10 p.m.—Viola solo, Miss Marie Cowhill. 8.20 p.m.—Song, Miss A. Anders. 8.27 p.m.—Recitation, Mr. C. White. 8.30 p.m.—Rev. G. H. Jubb—Talk on "Scripture in the Home." 8.35 p.m.—Pianoforte solo, Mr. Tom King. 8.40 p.m.—Contralto solo, Miss Ruby Miller. 8.53 p.m.—Bajo solo, Mr. Seth Smith. 9.01 p.m.—Burlorne solo, Mr. H. Mellich. 9.11 p.m.—G.P.O. Chimes. 9.15 p.m.—Mr. P. H. Nicholls will talk on "Who are we?" 9.19 p.m.—Soprano solo, Miss A. Anders. 9.23 p.m.—Recitation, Mr. G. White. 9.28 p.m.—Bajo solo, Mr. Seth Smith. 9.33 p.m.—Contralto solo, Miss Ruby Miller. 9.36 p.m.—Bass solo, Mr. H. Mellich. 9.40 p.m.—Viola solo, Miss M. Cowhill. 9.44 p.m.—Soprano solo, Miss A. Anders. 9.47 p.m.—Recitation, Mr. G. White. 9.51 p.m.—Bajo solo, Mr. Seth Smith. 9.55 p.m.—Pianoforte solo, Mr. Tom King. 10 p.m.—G.P.O. Clock and Chimes. Close down.

4QG, BRISBANE.

Sunday.

MORNING SESSION.

ST. STEPHEN'S CATHEDRAL. The complete morning service will be relayed from St. Stephen's Roman Catholic Cathedral. 11 a.m.—Church service. 12.40 p.m.—Close down.

AFTERNOON SESSION.

CHURCH SERVICE. The complete service will be relayed from the Church of Denmark, George Street, Brisbane. 2.15 p.m.—Prayer, opening prayer; hymn No. 405 (Kirk or Hens); the collect for the day; the Epistle; hymn No. 411; the Gospel; the Creed; hymn No. 516; anthems; sermon; hymn No. 339; the collect for the word; the Benediction; hymn No. 468; prayer. Pastor P. C. Lignard. 3.15 p.m.—Benediction.

BAND CONCERT.

The band concert will be relayed from the Botanic Gardens, Brisbane. 3.15 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 Cathedral. 7.30 p.m.—Church service. 8.30 p.m.—Cantata.

HARD CONCERT.

At the conclusion of the church service the concert provided by the Brisbane Municipal Concert Band (conductor, Mr. E. Jackson) will be relayed from Wickham Park. The programme will include—Overture, "Pearl of the East" (Felix Mendel); selection from "Bohemian Girl" (Balf); suite from "Carmen" (Bizet).

SPECIAL VOCAL RECITAL.

At the conclusion of the band concert a special vocal recital will be provided by Professor Elin, (Head of the Voice Department, Conservatorium of Music, Manila), Professor Elin will be supported by Mr. Luis Amador Pared (violin) and Miss Gertrude Amador (piano). 9.30 p.m.—Vocal recital. 10 p.m.—Close down.

Monday, May 23 2FC, SYDNEY.

MIDDAY SESSION.

12 noon—"Big Ben" and programme announcements. 12.2 p.m.—Stock Exchange, first call. 12.3 p.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipboard intelligence, mail service. 12.5 p.m.—Studio music. 12.50 p.m.—Summary of "Sydney Morning Herald" news service and editor. Rugby Wireless News. 12.55 p.m.—A Talk by the 2FC Racing Commissioner. 12.40 p.m.—Miss Heather Harling, soprano: "A Heart that's Free" (Rubyn). 12.44 p.m.—Studio music. 1.3 p.m.—"Big Ben." Weather intelligence. 1.35 p.m.—"Evening News" midday news service. Producers' Distributing Society's Record. 1.50 p.m.—Studio music. 1.55 p.m.—Stock Exchange, second call. 1.58 p.m.—Marching music for the school children. 1.40 p.m.—Miss Heather Harling, soprano: "An Evening" (Conannon). 1.45 p.m.—Studio music. 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements. 3.5 p.m.—Pianoforte solos. 3.20 p.m.—Miss Jessie Hutchins, soprano: "Will in a Whip." 3.42 p.m.—Mr. Will Bowyer, basso: "The Carpet" (Sanderson). 3.55 p.m.—Studio music. 3.40 p.m.—From Farmer's Tea Rooms: Miss Joyce Gillespie, soprano: "Daisies" (Darley). 3.45 p.m.—Pauline Fry, a talk on "Famous Artists I Have Met." 4 p.m.—From Farmer's Tea Rooms: Miss Peggy Dunbar, contralto: "Daffodils" (Gounod).

Burgess Went over the Pole with Byrd



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ARKS & A.

# Mullard

**THE · MASTER · VALVE**

- 4.5 p.m.—Miss Jessie Hutchinson, soprano: "Tell Me, Gipsy" (Day).  
 4.10 p.m.—Studio music.  
 4.20 p.m.—From Farmer's Tea Rooms: Miss Joyce Gillespie, soprano: "I Hope" (Jonas).  
 4.25 p.m.—Mr. Will Bowyer, basso: "Cavalier" (Hickey).  
 4.30 p.m.—Studio music.  
 4.40 p.m.—From Farmer's Tea Rooms: Miss Peggy Dunbar, contralto: "My Dear Soul" (Sargant).  
 4.45 p.m.—Stock Exchange, etc., third call  
 4.47 p.m.—Studio music.  
 5 p.m.—Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of 2FC.  
 5.50 p.m.—The "Hello Man" talks to the children.  
 6 p.m.—A Serial Story.  
 6.40 p.m.—Dinner music.  
 7 p.m.—"Big Ben." Late Sporting Information.  
 7.10 p.m.—Daigety's Market Reports (wheat and stock).  
 7.15 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.—Studio item:  
 "An Old Ironsides" Night.  
 8 p.m.—BROADCAST FROM THE PRINCE EDWARD THEATRE, Sydney:  
 The Overture.  
 The Prologue.  
 The incidental music to the film presentation of "Old Ironsides."  
 The Prince Edward Orchestra, under the baton of Mr. Will Frier, at the Grand Organ, Mr. Leslie V. Harvey.  
 8.40 p.m.—From the Studio:  
 The Story of the making of "Old Ironsides," the first film directed by radio.  
 The Story Teller: Scott Alexander.  
 9 p.m.—Musical Scenes:  
 "When the Ocean Bells no More," Mr. Sydney Calland, baritone.  
 9.5 p.m.—The Comedy, "Shaughaleh" (written and arranged by Corderington Hall), depicting in life the humorous character and situations portrayed in the production of "Old Ironsides."  
 The Boy's (Wallace Berry), Mr. Scott Alexander.  
 The Ganner (George Baiacraft), Joseph Cahill.  
 The Boy (Charles Farrell), Robert Turner.  
 Scenes: The Tavern, The Wharf, Main Deck and Fore-cabin of the mercant trader "Esther."  
 9.35 p.m.—From the Prince Edward Theatre: "Old Ironsides" music.  
 9.45 p.m.—The Story Teller relates the incidents of the "Esther's" capture by the Pirates.  
 9.55 p.m.—A presentation: Shooting the picture of the battle scene between the battleship "Constitution," supported by 50 vessels of the fleet, against the forts and fleet of the pirates of "Tripoli."  
 Full atmospheric effects, portraying the bombardment of the ports, the clash of arms, the ramming of the vessels, and explosion of powder magazines.  
 The Director (James Cruise), Cyril Sharpe of the Commonwealth Film Laboratories.  
 Battle Effects by G. S. Broyel, Len Peulice, and McMoran of Paramount Picture Star.  
 Jack Bruce of Commonwealth Films and Laurence Halbert of 2FC.  
 10 p.m.—"Good-bye, Ganner; Good-bye, Sailor."  
 10.5 p.m.—From the Studio:  
 Mr. Howard Leighton, novelty pianist:  
 (a) "Hi Diddle Diddle" (Keidel).  
 (b) "Hello Aloha" (Baer).  
 (c) "Just a Bird's-eye View" (Donaldson).  
 10.12 p.m.—Mr. Sydney Calland, baritone.  
 10.20 p.m.—Miss Leslie Elliott, comedienne:  
 (a) "They always put the blame on me" (Elliott).  
 (b) "Waltz me, Benjamin" (Elliott).

- 10.27 p.m.—Mr. Howard Leighton, novelty pianist:  
 (a) "Beadow Lark" (Florita).  
 (b) "In a little Spanish Town" (Wayne).  
 (c) "There's no Maybe in Baby's Eyes" (Donaldson).  
 10.35 p.m.—Wentworth Cafe Dance Orchestra under the baton of Mr. Frederick Leighton.  
 10.40 p.m.—Miss Leslie Elliott, comedienne:  
 (a) "Mama's Gone Dancier" (Lee).  
 (b) "Listen in for Happiness" (Elliott).  
 10.45 p.m.—Wentworth Cafe Dance Orchestra.  
 10.55 p.m.—Late news and announcements.  
 10.55 p.m.—Wentworth Cafe Dance Orchestra until 11 o'clock.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY.

## Monday.

- Description of each race at the Epping Track, broadcast direct from the race course.  
 12 noon.—G.P.O. clock and chimes.  
 12.1 p.m.—Special ocean forecast and weather report.  
 12.3 p.m.—Information—Mails and shipping, and movements of important ships.  
 12.6 p.m.—Sydney Stock Exchange calls.  
 12.10 p.m.—Boats by call by wireless.  
 12.16 p.m.—Musical programme from the Studio.  
 12.20 p.m.—Fruit market report.  
 12.21 p.m.—Vegetable market report.  
 12.22 p.m.—London metal market report.  
 12.24 p.m.—Dairy and farm produce market report.  
 12.27 p.m.—Racing resume.  
 12.30 p.m.—G.P.O. clock and chimes.  
 12.31 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Sporting information ("Sun").  
 12.45 p.m.—Hillier's Instrumental Quartet—Direction, Caryl Castling.  
 1.30 p.m.—G.P.O. clock and chimes.  
 1.31 p.m.—News from the "Sun."  
 1.40 p.m.—Musical programme from the Studio.  
 1.50 p.m.—News from the "Sun."  
 2 p.m.—G.P.O. clock and chimes.  
 Hearing information broadcast by courtesy of the "Sun."  
 2.1 p.m.—Talk to children and special entertainment for children in hospital.  
 2.20 p.m.—Talk on "Tennis," by Miss Gwen Varley. Broadcasters' women's sports authority.  
 Social Notes—Replies to correspondents.  
 Talk to the woman who sews, by Mrs. Jordan.  
 2 p.m.—G.P.O. clock and chimes.  
 3.1 p.m.—Musical programme from the Studio.  
 3.15 p.m.—News from the "Sun."  
 3.40 p.m.—G.P.O. clock and chimes.  
 3.41 p.m.—Talk of "The Grand Opera," illustrated by R.M.V. records.  
 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 entitled "The Stronger Hand," by John Goodwin.  
 4.20 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 will entertain the kiddies.

- 6.40 p.m.—Musical programme from the Studio.

## SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. clock and chimes.  
 Australian Mercantile, Land and Finance Co.'s report.  
 Weather report and forecast by courtesy of Government Meteorologist.  
 Producers' Distributing Society's fruit and vegetable market report.  
 Stock Exchange reports.  
 Grain and fodder report ("Sun").  
 Dairy produce report ("Sun").  
 7.15 p.m.—Books to read.  
 7.30 p.m.—Country news from the "Sun."

## EVENING SESSION.

- 8 p.m.—G.P.O. clock and chimes.  
 Broadcasters' Topical Chorus.  
 8.3 p.m.—Newtown Band broadcast from Industrial Hall, Newtown.  
 8.35 p.m.—Walter George's smart set show in melody and humor.  
 9.25 p.m.—Talk on general sporting by Broadcasters' all-stars expert.  
 9.34 p.m.—Newtown Band.  
 9.48 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.  
 10 p.m.—G.P.O. clock and chimes.  
 Resume of following day's programme.  
 10.3 p.m.—Miss Ella Goodman, soprano.  
 10.10 p.m.—George Campbell (of the Veterans of Variety) and Violet Victoria.  
 10.25 p.m.—Mr. Harry Ross, tenor.  
 10.32 p.m.—News items by courtesy of the "Sun" Newsmen.  
 10.46 p.m.—Miss Ella Goodman.  
 10.58 p.m.—Mr. Harry Ross.  
 11 p.m.—G.P.O. clock and chimes.  
 National Anthem.

## 2GB, SYDNEY

## Monday.

- 9 a.m.—Music.  
 9.5 a.m.—Cheerio 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.

- 2.30 p.m.—Music.  
 2.37 p.m.—Mr. Walter Hunt Scenes from Shakespeare.  
 3.52 p.m.—Music.  
 4.7 p.m.—Talk.  
 4.22 p.m.—Music.  
 4.30 p.m.—Close down.

## EVENING SESSION.

- 7.55 p.m.—Violin solos DAN SCULLY.  
 8.5 p.m.—Address by Professor Ernest Wood.  
 8.20 p.m.—Musical Monologues by J. E. Powell.  
 8.27 p.m.—Duets for two violins with piano accompaniment. DAN SCULLY, MONICA BORDER, ADA BROOK.  
 8.40 p.m.—Piano solos. ADA BROOK.  
 8.55 p.m.—Announcements.  
 8.56 p.m.—Violin solo, MONICA BORDER.  
 9 p.m.—Topical Talk.  
 9.15 p.m.—Instrumental Quartette. DAN SCULLY, MONICA BORDER, MURIELLE LANG, ADA BROOK.  
 9.35 p.m.—Songs, by Mr. Todd. "Ship mates of mine," "Sanderson's," "Sea Fever," Ireland.  
 9.41 p.m.—Duets for two violins, with piano accompaniment. DAN SCULLY, MONICA BORDER, ADA BROOK.  
 9.53 p.m.—Cheerio Talk.  
 10 p.m.—Close down.

## 3LO, MELBOURNE

## Monday.

## MORNING SESSION.

- 12 noon.—Time Signal: British Official News from Rugby; Reuters's and the Australian Press Association's Cables; "Argus" and "Herald" News Service.

Burgess Went with U.S. Mail Flyers.

# MURDOCH'S

## EFFICIENT WIRELESS

### Special Offer! An £8/10/- "A" or "B" Battery Charger for—

Don't be without a "Charger" any longer! Murdoch's are in the fortunate position of being able to offer this Special stock of "A" or "B" Chargers at 30 per cent. off usual price.

Current is rectified by a Thermionic valve, giving silence and safe service. So thoroughly insulated is this Charger that "A" Battery may be charged whilst set is operating. Charges an "A" Battery 2, 4, 6, 8 or 12 volt at 2½ amp. hr. rate. Also 30, 60, or 90 volt "B" Battery.

Usually, 18/10/-. SPECIAL PRICE ..... **£6/-**

# £6/-

"A" Battery Supply Unit—gives 6 Volts direct from A.C.  
main ..... **12/10/-**

## The Famous English "Lissen" Apparatus

Complete stocks now at Murdoch's.

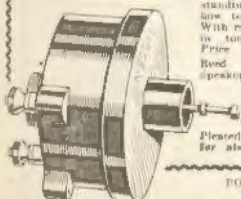
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A QUALITY Component—Makes a whisper loud in a background of silence. Also provides an efficient I.F. choke by simply connecting Primary and Secondary in Series.

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### The "Lissen" Loud Speaker Unit **16/6**

**S**UPPLIED with simple instructions for constructing an instrument of outstanding tone quality. Also how to make large type horns. With rubber for connecting acid in tone-arm of phonograph. Price ..... **16/6**  
Rood in make Case Type speaker ..... **1/- extra**



Placed Purchases Downages for above ..... **4/6 cash**

WRITE TO DESK A2.

### "Lissen" dry "B" Batteries.

**H**ERE'S Value! High-Grade English-made Dry B Batteries, 60 Volt Highly efficient in operation, incorporating a special recuperating agent ..... **15/6**

### "Lissen" High Frequency Chokes.

Murdoch's Safety Recommend this High Frequency Choke Price ..... **12/6**

### "Lissen" Manbridge Condensers.

A ALL capacities also "Lissen" Leaks and 500-ohm Electro-valve workable series—values available.

### You Will Be Interested in the "SOLODYNE."

Murdoch's Radio Experts have made an exhaustive study of the "World Leader," the "Solodyne." The Radio Dept. will gladly demonstrate this set to you or help you with any information. Circuits free for the asking.

POSTAGE PAID TO YOUR DOOR, EXCEPT BATTERIES, ON WHICH POSTAGE IS ONLY PAID WHEN ORDERED WITH OTHER GOODS.

WHEN ORDERING BY MAIL, KINDLY MENTION "WIRELESS WEEKLY"

# MURDOCH'S SYDNEY

IN PARK STREET LTD.

"Specialists in all Radio Equipment."

- 12.20 p.m.—GRACE AND KEATS.  
"Pierrotta, Pierrot and a Piano."  
12.30 p.m.—STUDIO ORCHESTRA.  
Overture, "Romero and Juliette" (Bellini).  
12.40 p.m.—JOE BRENNAN AND IDA NEWTON.  
Joe Brennan, Dame, Song and Fatter,  
Ida Newton, Child Impressions, "Bad and Naughty."  
12.50 p.m.—Stock Exchange Information.  
1.0 p.m.—STUDIO ORCHESTRA.  
"Of the Rivers" (Maurice Barton).  
1.10 p.m.—FREDERICK (Maurice Barton).  
1.19 p.m.—FREDERICK (Maurice Barton).  
"Can't You Hear Me Calling Caroline?" (Roma).  
"The Trumpeter" (Dix).  
1.25 p.m.—Miscellaneous Information, Shipping Intelligence, Weather Forecast for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Reports.  
1.32 p.m.—THE FUTURISTS present their Radio Revue.

## ODD NUMBERS.

- THE COMPANY sing an Opening Chorus.  
DISMAL DESMOND and CERRIL NORTH-COTE in a Comedy Double.  
GUS DAWSON will sing and dance a few steps.  
A Sketch by Ira Vanda, Gus Dawson and Cerril Northcote.  
IDA VANDA sings "Bring Back These Olden Days."  
DISMAL DESMOND will try and make his miserable life happy.  
A Finale by the Company.  
1.47 p.m.—STUDIO ORCHESTRA.  
Overture, "Marianne" (Wallace).  
2.0 p.m.—Close down.

## AFTERNOON SESSION.

- 2.30 p.m.—Opening of Conference AUSTRALIAN BUTTER AND CHEESE FACTORIES MANAGERS' AND SECRETARIES' ASSOCIATION by HON. MINISTER OF AGRICULTURE, ROYAL AGRICULTURAL SOCIETY SHOWGROUNDS.  
PRESIDENT to Address.  
2.35 p.m.—FRANK and FRANCIS LUIE, Hawaiian Entertainers:  
Duet, "Drifting and Dreaming."  
Solo, "A Song to Hawaii."  
2.45 p.m.—Address by MR. ROBERT CROWE, Superintendent of Exports: "Strive to Excel."  
4 p.m.—LEE WHITE AND CLAY SMITH: "We're Counting Home."  
"Whisper Time."  
"Somebody's Coming to Tea."  
4.15 p.m.—STUDIO ORCHESTRA:  
"Slavische Rhapsodie" (Friedmann).  
4.25 p.m.—MARIÉ BRENNER, Soprano:  
"When Love is Kind" (A. J.).  
"Chanson Triste" (Henri Duparc).  
4.30 p.m.—LEE JAMES AND DODIE WOLFE, Jewesses and Jassareds:  
"I'll Stand Beneath Your Window To-night"  
"In Between is a Shower."  
"He's Only a Working Man."  
"Sunshine Sal."  
4.45 p.m.—"Herald" news service. Stock Exchange Information.  
5 p.m.—Close down.

## EVENING SESSION.

- 5.40 p.m.—CHILDREN'S HOUR. Answers to letters and holiday greetings.  
5.55 p.m.—MUSICAL PROGRAMME FOR CHILDREN. Arranged by FRITZ HART. MILLICENT OSBORN will sing:  
"The Little Fox Lark" (Irish Folk Song).  
"Afton Wars" (Scottish Folk Song).  
"The Ballet's Daughters" (English Folk Song).  
"De Reddowdilly" (Fruer Simon).  
"If I Were King" (Fruer Simon).  
IDA SCOTT (Pianist) will play:  
"See Variations" (A. Major) (Beethoven).  
"For Ellen" (Bosby) (Beethoven).  
MARGOT MACGIBBIN (Violinist) will play:  
"Cavatina from B. Major Quartet" (Beethoven).  
"Minuet in G" (Beethoven).  
"Scherzo and Trio" (C. Minor Sonata).  
Accompanist: ———— IDA SCOTT.  
6.55 p.m.—"Argus" News Service; "Herald" News; Weather Synopsis; Shipping Movements.  
6.45 p.m.—Stock Exchange Information.  
6.52 p.m.—Fish Market Reports by J. R. Boreett, Ltd.; Rabbit Prices.

- 6.55 p.m.—River Reports.  
6.54 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.; wool market, Sheep Sales, Poultry, Grain, Hay, Cattle, Straw, etc.; Dairy Produce, Poultry and Oatmeal.  
7.6 p.m.—Fruit Market Reports by the Victorian Wholesale Fruitgrows' Association, conducted by the "Fruit World," exclusive to 340.

## NIGHT SESSION.

- Accompanist: ———— AGNES FORTUNE  
Announcer: ———— MAURICE DUDLEY  
7.15 p.m.—Under the auspices of the Deaf and Dumb League, MR. LEFFERTS HILLS will speak on "The Duke at Canberra," Some Reflections.  
7.30 p.m.—MR. E. C. G. TAYLOR will speak on "School Life and School Sport."  
7.45 p.m.—Lecture by the Agents of the Department of Agriculture, MR. J. M. WARD, Superintendent of Horticulture, will speak on:  
a) "Fruitgrowing—Planting for Interpolation."  
8.0 p.m.—STUDIO ORCHESTRA.  
"Rose Marie" (Friml).  
8.10 p.m.—HARMONIETS MALE QUARTETTE.  
"Kentucky Babe."  
"Because."  
8.17 p.m.—STUDIO ORCHESTRA.  
"Le Retour" (Bisss).  
8.27 p.m.—THE FUTURISTS present their Radio Revue:  
EPIISODES.  
An Opening Chorus.  
A Sketchlet—THE SQUARE TRIANGLE.  
Including Ira Vanda, Gus Dawson and Cerril Northcote.  
Ira Vanda and Gus Dawson sing a duet.  
A Comedy Episode by Desay and the Company.  
A Finale by the Company.

- 8.47 p.m.—CAPTAIN DONALD MACLEAN: "The Buccaneers in the Pacific."  
8.54 p.m.—STUDIO ORCHESTRA:  
"Tommy Dumpty's Funeral March" (Brandlin).  
9.12 p.m.—LEE WHITE AND CLAY SMITH: "When We Came Company at our House"  
"I Love You, I Love Him."  
"We're all Crazy."  
9.30 p.m.—JUST CONCENTRATE.  
An Experiment by MASS TELEPATHY.  
9.50 p.m.—HAROLD ELYNIE, Pianoforte:  
"Chaconne" (F. H. Dubois).  
"Evening" (Schumann).  
"Singing" (E. Major) (Liszt).  
9.57 p.m.—British Official Wireless news from Rugby. "Argus" news service. Announcements.  
10.7 p.m.—THE HARMONIETS Vocal Quartette, Tom Masters and James Fearon:  
Duet:  
a) "Is it the Wind of the Dawn?" (Stanford).  
b) "Flow Gently Down" (Parry).  
Solo: "Why Shouldn't I!"  
Sung by Herbert Sanderson.  
Trio: "The Cavancher" (Bullard).  
Sung by The Trio.  
10.24 p.m.—STUDIO ORCHESTRA:  
"Two Old French Dances" (Boulle).  
10.31 p.m.—JOE BRENNAN, assisted by IDA NEWTON:  
"The Moon."  
JOE BRENNAN, Eccentric Box:  
"Nobody Noticed Me."  
IDA NEWTON: "Cupid Plays the Dickens."  
JOE BRENNAN, Impressions: "P.C. 49."

- 10.40 p.m.—HARMONIETS MALE QUARTETTE, Vocal Quartette:  
"Dial to Me Only."  
"My Bonny Lass."  
"The Moon."  
10.52 p.m.—Meteorological information. Announcements.  
11 p.m.—OUR GREAT THOUGHT.  
"People who take no pride in the noble achievement of remote ancestors will never achieve anything worthy to be remembered with pride by remote descendants."  
——— MACAULAY.  
11.1 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS:  
"By the Sign of a Rose."  
"Sunday"

- "Hello, Little Girl of My Dream"  
"Hello, Aloha."  
"The Original Black Bottom"  
"I'm on My Way Home"  
"Let's All Merry Feet"  
"Ruffenradel" (Piano Solo).  
"The More We Are Together"  
"Mary Lou"  
"Ting-a-Ling—Waltz of the Bells"  
"Sally"  
"Somebody's Lovely"  
"A Cup of Coffee, a Sandwich, and You"  
"Just a Bird's Eye View" (Dumbbell).  
"O, My Merry Feet"  
11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

## Monday.

## MORNING SESSION.

- 11 a.m.—Selections on the Grammatical Fan-tasy.  
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 noon.—Time signal chime from G.P.O.  
First weather forecast.  
Events of the day.  
Studio barometer and outdoor thermometer readings.  
12.5 p.m.—Musical selections from the Studio.  
12.50 p.m.—Stock Exchange news.  
Market reports.  
12.40 p.m.—Musical selections from the Studio.  
12.55 p.m.—Shipping movements.  
Mail notices.  
1 p.m.—Close down.

## AFTERNOON SESSION.

- Richmond Trials—Results after each race and at half hourly intervals.  
2.30 p.m.—Studio Orchestra:  
Selection, "The Half Moon" (Jacob).  
2.45 p.m.—Miss Mary Fraser, soprano:  
"A heart that's true" (A. G. Robyn).  
"Année Languie" (Liszt).  
2.53 p.m.—Studio Orchestra:  
"Melody" (Padrevsky).  
3.0 p.m.—Mr. E. Pester, violinist:  
"Scherzino" (Raff).  
3.12 p.m.—Studio Orchestra:  
"Fenestrella" (Grove).  
3.20 p.m.—Miss Mary Fraser, soprano:  
"Love is forever" (Newton).  
"A brown bird singing" (Badya Wood).  
3.28 p.m.—Studio Orchestra:  
"Lullaby" (Kjerulf).  
3.47 p.m.—Miss E. Wreay, pianist:  
"Valse A Minor" (Chopin).  
3.50 p.m.—Studio Orchestra:  
"The Eagle" (MacDowell).  
4 p.m.—Time signal chime from G.P.O.  
Second weather forecast.  
Studio Orchestra, "Moonshine" (MacDowell).  
4.15 p.m.—Mr. Joseph Widdows, tenor:  
"Bonnie Myr of Argyll" (Nelson).  
"A spirit flower" (Campbell-Tipton).  
4.22 p.m.—Studio Orchestra:  
"Melodie" (Bachmann).  
4.30 p.m.—Mr. Joseph Widdows, tenor:  
"Morning" (Spisale).  
"An Evening Song" (Hornthal).  
4.39 p.m.—Studio Orchestra:  
Selections.  
4.55 p.m.—Evening Amusement Guide.  
5 p.m.—Time signal chime from G.P.O.  
Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—Children's Corner—James Jackero and the Farmyard Five.  
EVENING SESSION.  
7.45 p.m.—British Official Wireless Press.  
Studio barometer readings.  
8 p.m.—Time signal chime from G.P.O.  
Programme arranged by Madame Mary Conly.  
Miss Augusta Palle, mezzo-soprano:  
"O, Western Wind" (Erabe).  
"My Treasure" (Trevalan).



BRITISH

Brown

THROUGHOUT



Brown Q.  
2000 Ohms.  
£21/-



Brown Cabinet Model.  
2000 Ohms. £8/10/-



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### The Incomparable Brown in Seven Superb Models

Now that Broadcasting has awakened such an intense national interest, it is only natural to find that Loud Speakers, in common with many other commodities, Radio or otherwise, must be produced in a variety of types at prices that will be within the reach of all. It is for this reason, therefore, that there are now available seven superb models of **Brown** Loud Speakers.

Of all the Loud Speakers on the market to-day, the **Brown** is unique, because, by a brilliant application of an entirely original principle, it achieves results which can be obtained in no other speaker. **Brown** principles of design and construction can be found only in **Brown** Loud Speakers. The famous tuned reed mechanism, which permits the use of a supersensitive cone-shaped aluminium diaphragm as thin as paper, is responsible for a tonal purity and mellowness which must be heard to be fully appreciated.

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2000 Ohms.  
£7/10/-



Brown H4.  
2000 Ohms.  
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2000 Ohms.  
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Brown H2.  
2000 Ohms.  
£3/5/-

WRITE FOR LEAFLET "W.W."



MR. JOHN SCOTT TUGGART

# Radio Revolutionised

## NEW ERA OPENS!

Mr. John Scott Tuggart, F.R.S., a famous British Radio Engineer, when introducing his new Elstree Six Model, stated in the title "Radio Revolutionised" —

"Intense Research has produced a gain in range and selectivity hitherto undreamed of and rendered tens of thousands obsolete."

"We are making our reputation on new receivers. There is not a designer or writer of this journal who does not realise that a profound change has taken place, that a new page has been added in the history of wireless reception."

Modern Wireless, September, 1929.



MR. JOHN SCOTT TUGGART

The profound change of standards referred to by the famous British inventor in his sensational pronouncement is embodied in the two following new designs:

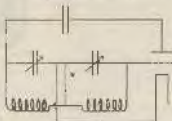
### The Udisco Super-Neutrodyne



FUNDAMENTAL CIRCUIT

Udisco Super-Neutrodyne

Patent No. 20,124 granted Nov. 20, 1924  
U.S.A. Patent No. 1,810,514 granted Nov. 14, 1930  
British Patent pending



Optical Fibreless Connection



The Fundamental Circuit contained in the Super

Sets is essentially identical, as is clearly indicated by the wiring diagrams:

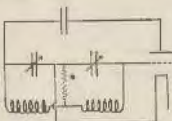


### The Elstree-Six



FUNDAMENTAL CIRCUIT

Elstree Six



Published in "Modern Wireless" June, 1929

← COMPARE THESE →

From this it will be seen that the new technique which, according to famous British inventor, Mr. J. Scott Tuggart, renders tens of thousands obsolete is the invention of a brilliant Australian engineer, and step-property of an Australian Company.

100,000 Ohm Resistance connection to Fibreless

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Colville Moore has built up a business over the last 5 years through giving the public good sound advice backed up by their extensive knowledge, and best value in parts and sets that money can buy. We now extend to the public the privilege of buying their goods with A

## AERIAL WIRES.

3/20 Stranded Bare Copper	per 100ft.	2/6
7/20 Stranded Bare Copper	per 100ft.	0/3
7/22 Stranded Enamelled Copper	per 100ft.	4/6
Phosphor-bronze, stranded	per 100ft.	2/3
Helden Braided Loop, silk covered, Green	per 125ft.	11/3
Helden Braided Loop, cotton covered, Brown	per 125ft.	7/6
1/18 V.I.E. Heavy Insulated	per rd.	2d.
Electron Wire	per 100ft.	2/6

## FLEXIBLE WIRES.

Twin Flex, stranded, 23/36	per yd.	6d.
Single Flex, in Green, Yellow, Black, Red and Brown	per yd.	3d.
Miniature Twin Flex, silk covered	per yd.	3d.
Twin Flex, 14/36	per yd.	5d.

## BATTERY TESTERS AND METERS.

Volt Meter, 0-50 volts	5/11
Volton Volt Meter, 0-100 and 0-10 volts	12/0
Volt Amp. Meter, 0-50, 0-50 volts	6/0

## DIALS.

4in. Bakelite	2/0
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Emmeo Bakelite, 7/6; Metal	6/0
Galverner Dials, S.L.F.	4/6

## VARIABLE CONDENSERS.

Advance S.L.F. .00035, 10/-; .0005	10/0
Advance Centralgia. .00035, 12/-; .0005	12/0
Precise. .00035, 12/6; .0005	14/0
Precise. .00035 twin	27/0
Pilot Mod. .00035, 12/6; .0005	14/0
Igranite. .00035, 22/6; .0005	45/0
Igranite. Two-gang, with balancing condenser	43/15/0
Igranite. Three-gang, with balancing condenser	45/12/6
A Special Purchase. .0005 Low-Loss, good quality	8/6

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In Red, Green, Yellow and Black	per yard	1/6
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"Olydo," 6v. 120a., £4/10/-	6v. 150a., £5/10/-
" " 6v. 180a., £6/15/-	6v. 80a., £4/4/-
" " 6v. 50a., £3/10/-	4v. 80a., £3/-
" " 4v. 30a., £3/10/-	
" " 11v. 2v. 50a., £1/1/-; 6v. 80a., 25/-	
" " 2v. 100a., 39/-	
C.A.V., 2v. 42a., 21/8; 2v. 66a., 26/-; 6v. 80a., 30/-	
4v. 42a., 45/4; 4v. 66a., 50/-; 4v. 80a., 60/-	
6v. 44a., 56/-; 6v. 66a., 75/-; 6v. 80a., 90/-	

All above Accumulators are ignition rating.

## "B" BATTERIES.

Burgess, large cap., 45v., flat or upright	28/-
Columbia " " " " " "	25/-
Bright Star " " " " " "	25/-
Volton " " " " flat type	25/0
Ever-ready—	
Small cap. ... 32v., 9/6; 42v., 12/6; 60v., 18/-	
Large cap. ... 22v., 16/-; 42v., 21/-; 60v., 31/0	

## "C" BATTERIES.

Burgess, 4.5, 1.5 and 3 volts	4/-
Ever-ready " " " "	2/0
Volton " " " "	3/-

## "A" BATTERIES DEY TYPE.

Columbia, 1.5	2/0	Ever-ready, 1.5	5/-
Burgess, 1.5	4/-	" " " "	9/-

## FRICTION TAPE

2-oz. reels	1/5	4-oz. reels	1/4
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## CORDS.

Lead Speaker, 5ft., 1 1/2	2/6	20ft.,	3/-
A and B Battery Cord, 5 coloured cords			2/5

## PISTAILS.

3in. ... -/3	5in. ... -/3 1/2	12in. ... -/4
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N.H.M., super sensitive and guaranteed	1/3

## WINDING WIRES.

	4oz. reels.	8oz.	16oz.
14-gauge D.C.C.	-/9	1/5	2/9
16 " "	-/10	1/6	2/11
18 " "	-/11	1/6	3/4
20 " "	1/2	2/2	4/-
22 " "	1/4	2/6	4/8
24 " "	1/6	2/4	5/-
26 " "	1/7	2/3	5/8
28 " "	2/3	1/2	8/-
30 " "	3/2	5/6	10/-
	4oz.	8oz.	16oz.
22 gauge Green Silk	1/6	2/10	5/6
24 " "	1/8	3/2	6/7

## THIS WEEK'S SPECIALS.

Triplex Musicone	£2/4/-
Crystal Receiver, complete with phones, aerial wire, insulators, etc.	29/-
Baldwin Units, suitable for making cone speaker	17/0
Atlas Units, suitable for making cone speaker or gramophone attachment	15/-
Phillips' Detector Valve, D4, American type	3/6
Radiotron 201A Valve	8/11

**COLVILLE MOORE WIRE**  
10 ROWE STREET (NEXT HOTEL)

# RADIO PARTS & SETS

**MONEY BACK GUARANTEE** if not satisfied and Returned within 10 days.

**POSTAGE PAID** on all orders over 10/- with the exception of Batteries, Accumulators and Loud Speakers.

## GRID LEAKS.

Bradley's, Variable, 4.10 meg. ....	15/-
Variable, Variable, 4.10 meg. ....	8/-
Electra Fixed Leak, 1.5 meg. ....	2/-
H. and H. Fixed Leak, 1.5 meg. ....	1/6

## FIXED CONDENSERS.

Dublier, 00025, 0001 ..... 2/3
Dublier, 00025, with grid leak attached ..... 2/6
Dublier, 001 and 002 ..... 2/6
Wetson, 0001, 0005, 00025, 001, 002 ..... 1/6
Wetson, 00025, with grid leak attached ..... 1/6
T.C.C., 001, 002, 003, 004, 005, 000 ..... 3/6
T.C.C., 55, 5/6; 5 ..... 0/6
T.C.C., 1 M.F., 7/3; 2 M.F. .... 0/6

## ACCUMULATOR "B" BATTERIES.

Philo, 45 volt ..... 26/4/-
Philo, 80 volt ..... 28/13/-
Exide, 20 volt, units ..... 20/-
Three Star, 20 volt, units ..... 21/6

## BATTERY CLIPS.

"B" Battery 4d, "A" Battery, lead covered ..... 10d.
--

## DETECTORS.

Carbonium, Fixed ..... 11/-
Carbonium, Fixed, with Stabilizing Unit ..... 27/6
Harle ..... 7/6

## COIL KITS, FORMERS, ETC.

Airone Neodyne Kit ..... 22/6
Orodon " " ..... 37/6
Radlokes " " ..... 25/6
Radlokes Circlid Kit ..... 45/-
Browning Drake Kit—Airone ..... 22/6
" " Radlokes ..... 42/-
" " Orodon ..... 42/-
Gedon Three-coil Tuner, 1 Rotor, 14/0, 2 Rotor ..... 18/0
Rectone Coils, 25 turn 5/6 35 turn 6/-
50 turn 7/- 75 turn 7/6
All American Tuned Coils ..... £3/10/-
Radlokes ..... £3/10/-
Gedon Spider-web Formers, with pins ..... 1/3
Orodon Skeleton Formers ..... 5/-
Orodon Tubes, 2in. and 3in. .... each 4d.
Dileto Tubing, 2 1/2in. and 3in. .... per ft. 8/6
Bakelite Tubing, 2 1/2in. and 3in. .... per ft. 4/-

## "B" BATTERY ELIMINATORS.

Phillips ..... 49/15/-
Bakite BW, up to 5 valves ..... £11/10/-
Bakite BX, multi-valve ..... £10/15/-

## BATTERY CHARGERS.

Coleman "A" Battery Charger ..... £5/10/-
Coleman "A" and "B" Battery Charger ..... £6/10/-

## RHEOSTATS.

Housick, engraved knob ..... 5/3
H. and H., engraved knob ..... 3/6
H. and H., engraved dial ..... 4/6
Pilestat ..... 4/6
Bradley'stats ..... 15/-

## SOCKETS.

U.X., Browns, Bakelite ..... 1/6
Advance, Porcelain, U.X. .... 2/6
H. and H., Porcelain ..... 2/6
Benjamin Sheck Amberber ..... 5/-
English Sockets, each ..... 9d.
Pilot, U.X. .... 2/6

## PLUGS.

H. and H., semi-automatic ..... 2/3
E.Z.E. .... 2/6
Philmore ..... 1/6

## JACKS.

Single circuit ..... 1/6
Double circuit ..... 2/6
Single circuit, Fil. control ..... 2/6
Double circuit, Fil. control ..... 3/6

## TRANSFORMERS.

Jefferson Star, 5-1 and 6-1 ..... 10/6
Jefferson 41, 5-5-1 ..... 18/6
Jefferson 38, 4-1 ..... 18/6
Emmo, 3-1, 5-1, 5-1 ..... 21/-
Signal, 3-1, 5-1 ..... 21/-
H. and H., 6-1 ..... 35/-
Gies, 2-1, 32/0, 4-1 ..... 35/-
F.M.C., 3-1 and 3-5-1 ..... 12/6
Advance, 5-1 and 3.5-1 ..... 17/6

Here is a list of parts to choose from to build the "SOLODYNE" Receiver as described in this week's "Wireless Weekly":—

1 Bakelite Panel, 21 x 7 x 3/8, 14/- Dilecto ..... 15/-
1 Ignite Three-gang 0005 Con, with balancing Con. .... £2/12/4
1 Pilot Indograph Vernier Dial, 6/9, Rimco Bakelite ..... 7/6
1 MacLaren Tone Purifier ..... 21/-
1 00025 Variable Condenser, Advance, H.L.F. .... 10/-
1 Radlokes Kit, split primary resonant coils £3/15/-
3 Browns Bakelite U.X. Sockets, each, 1/8 Benjamin ..... each 5/-
2 Advance Midget Condensers ..... each 6/6
2 Advance L.P. Transformers, each, 17/6, Gess L.F. .... each 32/6
3 Automatic 1-jump, Rheostats ..... each 4/6
3 T.C.C. 2 m.f. Condensers ..... 9/6
1 Terminal Board ..... 2/6
1 Radlokes R.F. Choke ..... 2/0

# LESS SUPPLIES LIMITED

AUSTRALIA) SYDNEY Phone B 2261

- 8.7 p.m.—Miss Hazel Foietta, soprano:  
"Selveta's Song" (Greig).  
"The lass with the delicate air" (Arne).  
8.14 p.m.—Mr. Edward Becheroff, tenor:  
"Macusha" (Macmurragh).  
"I'll sing thee songs of Arabia" (Clay).  
8.21 p.m.—Miss Ann Perrett, contralto:  
"Like to the Danish Rose" (Elgar).  
"The Silver Ring" (Chaminade).  
8.28 p.m.—Mr. John Hobbs, baritone:  
"Infelno" from Ernani (Verdi).  
"The Witch of Bowden" (Prowse).  
8.35 p.m.—Mr. Charles Tuckwell, pianist:  
"Impromptu a Flut" (Schubert).  
"Shadow Dance" (MacDowell).  
8.43 p.m.—Madame Mary Conly, soprano:  
"Ernani Involanti" from Ernani (Verdi).  
"In My Garden" (Liddle).  
8.51 p.m.—Mr. Edward Becheroff and Mr. John Hobbs, vocal duet:  
"Solenne in Quest O'm" (Verdi).  
8.55 p.m.—Miss Hazel Foietta, soprano:  
"Nymphs et Sylvans" (Bemberg).  
"Was April" (Nevin).  
9.2 p.m.—Miss Augusta Poole, mezzo:  
"The arrow and the song" (Rafle).  
"Four by the Clock" (Mallouso).  
9.5 p.m.—Madame Mary Conly, soprano:  
"Lament of Isis" (Bantock).  
"If I were a lark" (Clutman).  
9.16 p.m.—Mr. John Hobbs, baritone:  
"The Volga Boatman" (Koeneman).  
"Feed Up" (Sterndale Bennett).  
9.23 p.m.—Miss Hazel Foietta and Miss Augusta Poole, vocal duet:  
"Call Me Back" (Denna).  
9.27 p.m.—Miss Ann Perrett, contralto:  
"Strings of Pearls" (Phillips).  
"Vale" (Russell).  
9.34 p.m.—Mr. Edward Becheroff, tenor:  
"For you alone" (Geelbi).  
"The Hiac tris" (Garlani).  
9.41 p.m.—Madame Mary Conly and Mr. John Hobbs, duet:  
"Still as the night" (Goetz).  
9.45 p.m.—Mr. Charles Tuckwell, solo pianist:  
"The Island Speer" (John Ireland).  
"Tuba Dance" (N. Dett).  
9.52 p.m.—Miss Hazel Foietta, soprano:  
"Songs my mother taught me" (Dvorak).  
9.56 p.m.—Vocal Quartette—Madame Mary Conly, Miss Ann Perrett, Mr. Edward Becheroff, and Mr. John Hobbs: "Good Night" (Flower).  
Accompanists, Miss Sadie Broughton.  
10 p.m.—Time Signal chime from G.P.O. Studio Barometer readings.  
"Age" news bulletin.  
Essett's Ballroom Orchestra.  
11 p.m.—Time signal chime from G.P.O. Close down.

## 4QG, BRISBANE.

### Monday.

#### MIDDAY SESSION.

- 1.0 p.m.—Market Reports: Weather Information supplied by the Commonwealth Weather Bureau; News Services supplied by "The Daily Mail" and "The Daily Standard".  
1.20 p.m.—From Hotel Carlton: Lunch Music played by Hotel Carlton Symphony Orchestra.  
1.58 p.m.—From the Observatory: Standard Time Signal.  
3.0 p.m.—Close Down.

#### AFTERNOON SESSION.

- 3.50 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".  
4.50 p.m.—Close Down.

#### EARLY EVENING SESSION.

- 6.0 p.m.—News Service supplied by "The Daily Standard".  
6.30 p.m.—The Children's Session: Stories by "The Sandman".  
7.0 p.m.—Market Reports; Stock Reports.  
7.30 p.m.—Weather News; Announcements.  
7.48 p.m.—Standard Time Signal.  
7.45 p.m.—Lecurette: "The Children's Music Corner," conducted by "The Music Maud"

#### NIGHT SESSION.

#### WINDSOR ESTABLISHED.

The first portion of the final session of the Windsor Established, comprising chorale work, will be relayed from the Listening Room—Hall.

- 8.0 p.m.—From the Exhibition Hall: Final Session, Windsor Established.  
9.0 p.m.—STUDIO ENTERTAINMENT: THE "REFINEMENT" (Hoetinger), the Studio Orchestra (conductor, Mr. A. Z. Featherstone); bass solo, "Up From Somerset," by "Jack"; monologue, "Gunga Linn" (scripting, Mr. H. Humphreys); tenor solo, "Come, Awake Beloved," by "Tam"; Scotch comic, "My Wandering Wife," by "Jack"; vocal duet, "Before the Battle," by "Bab" (man); the Studio Orchestra; soprano solo, selected, Miss Annie Adams; monologue, "Lovinsky at the Wedding" (Roan); Mr. H. Humphreys; baritone solo, "Adieu Marie" (Adams); Mr. L. Saeridan; fox-trot, "Four Paps" (Rose), the Studio Orchestra; bass solo, "The Village Blacksmith," by "Bab"; Scotch comic, "Widened Waitin' for You At" by "Jack"; characteristic, "The Gah-lir' Frolic" (O'Neill), the Studio Orchestra; tenor solo, "Locheven," by "Tam"; vocal trio, "The Bachels," by "Bab"; "Tans" and "Jock" selection, "Crispin e la Comary" (Rice), the Studio Orchestra.  
10.50 p.m.—"The Daily Mail" News: Weather News; Close Down.

## SCL, ADELAIDE.

### Monday.

#### MORNING SESSION.

- 12 noon.—G.P.O. Chimes.  
12.1 p.m.—Recital on the New Reproducing Sonora and the Autotone Reprodncer.  
12.30 p.m.—"Advertiser" News Service.  
12.50 p.m.—Market Reports.  
1.0 p.m.—G.P.O. Chimes.  
1.3 p.m.—Musical Programme Continued.  
2.0 p.m.—G.P.O. Chimes and Close Down.

#### AFTERNOON SESSION.

- 3.0 p.m.—G.P.O. Chimes.  
3.1 p.m.—Relay from the Maple Leaf Cafe—Orchestral Items.  
3.45 p.m.—From the Studio: Musical Items.  
4.0 p.m.—G.P.O. Chimes.  
4.1 p.m.—Relay from the Arcadia Cafe—Orchestral Items.  
4.55 p.m.—Station Announcements.  
5.0 p.m.—G.P.O. Chimes and Close Down.

#### EVENING SESSION.

- 6.0 p.m.—G.P.O. Chimes.  
6.1 p.m.—Dinner Music by Covent Garden Orchestra.  
6.43 p.m.—Bedtime Stories.  
7.30 p.m.—Market Reports.  
7.40 p.m.—Physical Culture Talk by Mr. Noel Hobbs.  
8.0 p.m.—G.P.O. Chimes.  
8.1 p.m.—Selection, Suburban Brass Band.  
8.10 p.m.—Baritone solo, Mr. Gordon Hale.  
8.20 p.m.—Selection, Suburban Brass Band.  
8.25 p.m.—Recitation, Miss Pauline Abraham.  
8.28 p.m.—Song, Miss Hilda Barnes.  
8.29 p.m.—Selection, Suburban Brass Band.  
8.39 p.m.—Song, Miss Jean Berry.  
8.45 p.m.—Pianoforte solo, Mr. Walter Hurst.  
9.0 p.m.—G.P.O. Chimes.  
9.1 p.m.—Weather Reports.  
9.3 p.m.—Daily's Wheel Report.  
9.4 p.m.—Song, Mr. Gordon Hale.  
9.5 p.m.—Selection, Suburban Brass Band.  
9.18 p.m.—Song, Miss Hilda Barnes.  
9.22 p.m.—Recitation, Miss Pauline Abraham.  
9.27 p.m.—Selection, Suburban Brass Band.  
9.35 p.m.—Song, Miss Jean Berry.  
9.41 p.m.—Selection, Suburban Brass Band.  
9.46 p.m.—Song, Mr. Gordon Hale.  
9.56 p.m.—G.P.O. Chimes.  
10.1 p.m.—Song, Miss Hilda Barnes.  
10.5 p.m.—Selection, Suburban Brass Band.  
10.15 p.m.—News Service.  
10.30 p.m.—Song, Mr. Gordon Hale.  
10.35 p.m.—Recitation, Miss Pauline Abraham.  
10.40 p.m.—Pianoforte solo, Mr. W. Hurst.  
10.45 p.m.—Pianoforte solo, Mr. W. Hurst.  
10.54 p.m.—Song, Miss Hilda Barnes.  
11.0 p.m.—G.P.O. Chimes and Close Down.

## Tuesday, May 24 2FC, SYDNEY.

#### MIDDAY SESSION.

- 12 noon.—"Big Ben" and programme announcements.  
12.2 p.m.—Stock Exchange, first call.  
12.3 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.  
12.35 p.m.—Studio music.  
12.10 p.m.—Summary of "Sydney Morning Herald" news service and cables.  
Rugby wireless news.  
12.35 p.m.—A Talk on Home Cooking and Recipes by Miss Ruth Furl.  
12.40 p.m.—Miss Eva Webb-Jones, mezzo:  
"The Willow Song" (Sullivan).  
12.44 p.m.—Studio music.  
1.0 p.m.—"Big Ben." Weather Intelligence.  
1.15 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.—Studio music.  
1.45 p.m.—Miss Eva Webb-Jones, mezzo:  
"There's Only One England" (Smith).  
1.50 p.m.—Studio music.  
1.53 p.m.—A Talk by the 2FC Racing Commission.  
2.10 p.m.—Close down.

#### AFTERNOON SESSION.

- 3 p.m.—Announcements.  
3.15 p.m.—Commemoration of Empire Day with appropriate music.  
3.45 p.m.—Recital of New Columbia Records of 2FC Artists:  
Jack Lomaxdale, entertainer:  
(a) "Baby Face."  
(b) "Bye Bye, Blackbird."  
Antonie Konstant, pianist:  
(a) "Solming Song."  
(b) "The Cuckoo."  
Miss Amy Castle:  
(a) "The Rosary" (Nevin).  
(b) "Waters of Minnetonka" (Laurance).  
Master Brian Lawrence, boy vocalist:  
(a) "Sally Borneo."  
(b) "Love's Old Street Song."  
Big Four:  
(a) "Sarah Alice."  
(b) "Thanks for the Buggy Ride."  
3.30 p.m.—Marching music for the school children.  
3.40 p.m.—From Farmer's Tea Rooms: Miss Dorothy Benbow, contralto:  
"There's Only One England" (Smith).  
3.45 p.m.—A Reading from the Studio.  
4 p.m.—From Farmer's Tea Rooms: Mr. Frank Botham:  
"Yeomen of England" (German).  
4.5 p.m.—Miss Margot Leseant, soprano:  
"You in a Gondola" (Clarke).  
4.10 p.m.—Studio music.  
4.20 p.m.—From Farmer's Tea Rooms: Miss Dorothy Benbow, contralto:  
"My Ships" (Barrett).  
4.25 p.m.—Studio music.  
4.40 p.m.—From Farmer's Tea Rooms: Mr. Frank Botham, baritone:  
"King Charles" (White).  
4.45 p.m.—Miss Margot Leseant, soprano:  
"I bow to thee my Country" (Helm).  
4.47 p.m.—Stock Exchange, third call.  
4.50 p.m.—Studio music.  
5 p.m.—Close down.

#### EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of 2FC.  
5.50 p.m.—The "Hello Man" talks to the children.  
6.30 p.m.—A Serial Story.  
6.40 p.m.—Dinner music.  
7 p.m.—"Big Ben." Late Sporting News.  
7.10 p.m.—Daily's Market Reports (wool, wheat and stock).  
7.18 p.m.—Fruit and vegetable markets.  
7.20 p.m.—Weather and shipping intelligence, Stock Exchange.  
7.26 p.m.—Late "Evening News" news service

# The Solodyne is acknowledged the World Over as the 1927 Radio Marvel

For many months RADIOKES Laboratories have been diligently working toward the perfection of inductances and chokes for this famous circuit, and are now pleased to announce that they have succeeded in producing kits not only equal but definitely superior, to any others made in any part of the world.

During this time, the RADIOKES engineers have

## Radiokes R. F. CHOKES

Specially developed for  
the Solodyne

**8/6 each**

The Choke with the  
Gold Label



been busy making new special machinery, and tools; and also developing new processes to assure that the final RADIOKES SHIELDED SOLODYNE COIL KIT shall exceed any R.F. Kit heretofore placed on the market.

Stocks of these Kits are available to assure prompt delivery to dealers and production is being speeded up to meet the ever increasing demand.

**75/-**  
per Kit of 3  
Units

Packed with Explanatory  
Diagrams, etc.

The illustration above is unfortunately unable to do justice to the beauty of finish of the Radiokes Shilded Solodyne unit. The lustrous crystalline black shields will make your set a "thing of beauty" as well as the best performer you have ever heard.

The Manufacturers, who are building receivers for sale, hundreds of miles outback, for the "men on the land" to receive in daylight, the reports of the Markets and Weather—are all turning to the Radiokes Solodyne Kits, and are showering us with the most complimentary Testimonials, especially stressing the daylight range of Solodynes.

The Technical Staff of "Wireless Weekly" use and Specify Radiokes Solodyne Kit and R.F. Choke in the Solodyne described in this issue, and if you desire to duplicate those results you MUST use the same components.

Radiokes have spent a great amount of time and trouble to bring these kits to perfection, and offer same to you at a reasonable price. Why should you go over all that ground again and then after all not achieve satisfactory results? The Technical Editor realised that aspect, and after trial and comparison, decided that the Radiokes Products were outstanding in merit and quality, and attributes the success of the Solodyne to Radiokes Solodyne Kit.

**Remember—No Others Are  
. . . "JUST AS GOOD"**

Obtainable from all First-Class Radio Dealers, or Direct.

# Metropolitan Electric Co., Ltd.

27-29 KING STREET, SYDNEY

## NIGHT SESSION.

- 7.45 p.m.—The Chimes of EPC and announcements.  
 7.50 p.m.—Studio Items.  
 8 p.m.—Broadcast from the Royal Naval House: Items by the N.S.W. State Military Band, conducted by Mr. John Palmer.  
 8.10 p.m.—From the Studio:  
 Miss Jessie Batchelor, 3LO soprano.  
 8.21 p.m.—From the Royal Naval House:  
 -N.S.W. State Military Band.  
 8.32 p.m.—Mr. Harold Tollenmarche, baritone.  
 8.40 p.m.—Items by the N.S.W. State Military Band from the Royal Naval House.  
 8.50 p.m.—Miss Maida Jones, soubrette.  
 8.54 p.m.—Miss Jessie Batchelor:  
 (a) "Blave Song" (Del. Biego).  
 (b) "You In a Gondola" (Clazie).  
 9 p.m.—BROADCAST FROM THE HOTEL AUSTRALIA: speeches and music from the programme arranged for Empire Day Dinner given by the Royal Colonial Institute. His Excellency the Governor-General will speak.  
 9.25 p.m.—Song: Miss Virginia Bassett.  
 9.30 p.m.—His Excellency the Governor, Sir Dudley de Chair will give an address.  
 9.40 p.m.—From the Royal Naval House:  
 -N.S.W. State Military Band.  
 Mr. Harold Tollenmarche, baritone.  
 9.54 p.m.—N.S.W. State Military Band.  
 10 p.m.—From the Studio:  
 Mr. Harold Tollenmarche, baritone.  
 10.4 p.m.—Mr. Cliff Arnold, novelty pianist.  
 10.10 p.m.—Miss Maida Jones, soubrette.  
 10.18 p.m.—Mr. Cliff Arnold, novelty pianist.  
 10.25 p.m.—Broadcast from the Wentworth Hotel, Sydney: The New Wentworth Symphonic Dance Orchestra under the baton of Mr. Frederick Leighton.  
 10.32 p.m.—Miss Maida Jones, soubrette.  
 10.38 p.m.—Wentworth Cafe Dance Orchestra.  
 10.45 p.m.—Celebrity Records.  
 10.50 p.m.—Late news and announcements.  
 11 p.m.—"Big Ben", National Anthem.  
 Close down.  
 NOTE: At 8.15 p.m. Miss Jessie Batchelor will sing:  
 (a) "Attends yul Lomemance" ("Smisson and Dellah" (Saint Saens).  
 (b) "The Young Rose" (Harby).

## 2BL, SYDNEY.

## Tuesday.

- 12 noon—Demonstration by the combined patriotic societies of Sydney, organized by the British Empire Union, broadcast from the Queen's Square.  
 1.30 p.m.—G.P.O. clock and chimes.  
 1.31 p.m.—News from the "Sun."  
 1.40 p.m.—Musical programme from the Studio.  
 1.50 p.m.—News from the "Sun."  
 2 p.m.—G.P.O. clock and chimes.  
 Rearing information broadcast immediately after each race by courtesy of the "Sun."  
 2.1 a.m.—Talk to children and special entertainment for children in hospital.  
 2.10 p.m.—Musical programme from the Studio.  
 2.20 p.m.—Women's Session (conducted by Mrs. Jordan).  
 Replies to correspondents.  
 Social notes.  
 Talk on "Toilet Hints", by Mrs. Jordan.  
 3 a.m.—G.P.O. clock and chimes.  
 3.1 p.m.—Musical programme from the Studio.  
 3.15 p.m.—Civil Service Stores' Trio—Directorship, Miss de Courcy Bremer.  
 3.20 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.—Civil Service Stores' Trio.  
 4.25 p.m.—Serial Story.  
 4.55 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.  
 5.48 p.m.—Uncle George and the kiddies.  
 5.49 p.m.—The pupils of Miss Monica Scully will entertain the kiddies.  
 6.40 p.m.—Musical programme from the Studio.

## SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. clock and chimes.  
 Australian Mercantile, Land and Finance Co's report.  
 Weather report and forecast by courtesy of Government Meteorologist.  
 Producers' Distributing Society's fruit and vegetable market report.  
 Stock Exchange report.  
 Grain and fodder report ("Sun").  
 Dairy produce report ("Sun").  
 7.15 p.m.—Country news from the "Sun."  
 7.30 p.m.—Talk on "The Motor Car", by Mr. Martin.  
 9 p.m.—G.P.O. clock and chimes.  
 Broadcasters' Topical Chorus.  
 8.3 p.m.—Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.  
 8.13 p.m.—Miss Dorrie Ward, soprano.  
 8.26 p.m.—Mr. Stanley R. Catlett, tenor.  
 8.31 p.m.—Talk on music by Madame Beite Vignon, Karl German, John Sebastian Bark, C. P. Bach.  
 8.57 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.  
 9 p.m.—G.P.O. clock and chimes.  
 Resume of following day's programme.  
 9.4 p.m.—Broadcasters' Light Orchestra.  
 9.13 p.m.—Mr. W. E. Lewis, baritone.  
 9.20 p.m.—The Spinning Maids, in vocal Trio.  
 9.27 p.m.—Mr. Arthur Mayes, Lasso.  
 9.34 p.m.—Duet, Miss Dorrie Ward and Mr. W. E. Lewis.  
 9.38 p.m.—Broadcasters' Light Orchestra.  
 9.48 p.m.—Miss Dorrie Ward.  
 9.55 p.m.—Mr. W. E. Lewis.  
 10.2 p.m.—Mr. Stanley R. Catlett.  
 10.18 p.m.—The Spinning Maids.  
 10.15 p.m.—Mr. Arthur Mayes.  
 10.25 p.m.—The Ambassadors' Dance Band broadcast from the Ambassadors, "Sun" news during interval.  
 11 p.m.—G.P.O. clock and chimes.  
 National Anthem.

## 3LO, MELBOURNE.

## Tuesday.

- MORNING SESSION.  
 EMPIRE DAY.  
 8.30 a.m.—From Royal Agricultural Society's Show Ground, Flemington. Address by MR. F. J. CARROLL, Commonwealth Supervisor of Dairy Exports.  
 "Some Observations on matters connected with the Dairying Industry."  
 Introduction of Professor Huxtable.  
 Address by Mr. W. A. Herlan, Senior Grade; Review of Exports Season, 1926-1927.  
 Accompanied by . . . . . AGNES FORTUNE  
 Announcer . . . . . ALFRED ANDREW  
 11.0 a.m.—STUDIO ORCHESTRA.  
 Overture "Brambling" (McKenzie).  
 11.10 a.m.—J. ALEXANDER BROWNE, Baritone.  
 "Land of Hope and Glory" (Elgar).  
 "Australia, Oh How Favoured Land" (Anon.).  
 11.17 a.m.—MR. J. HOWLETT ROSS, will speak on "Empire Day."  
 11.37 a.m.—STUDIO ORCHESTRA.  
 "Red, White and Blue Patrol" (Moseham).  
 "Patrol" (Moseham).  
 11.47 a.m.—J. ALEXANDER BROWNE, Baritone.  
 "The Red, White and Blue."  
 "Song of the Sea."  
 11.54 a.m.—STUDIO ORCHESTRA.  
 "Three English Folk Songs" (Vaughan Williams).  
 12 noon—Time Signal; British Official Wireless News from "Rusty"; Renters and the Peace Association; Cables; "Argus" and "Herald" News Services.  
 12.20 p.m.—MAXWELL CAREW, Comedian.  
 "Who's Coming My Way Home."  
 "He's Only a Working Man."  
 12.30 p.m.—STUDIO ORCHESTRA.  
 "Sun Toy" (Sydney Jones).  
 12.40 p.m.—Stock Exchange Information.  
 12.50 p.m.—EULALIE BLONG, Soprano.  
 "Fairy Shopping."  
 "Brown Bird Singing" (Haydenwood).  
 12.57 p.m.—STUDIO ORCHESTRA.  
 Ballet Suite—Faust (Gounod).  
 1.7 p.m.—EULALIE BLONG, Soprano.  
 "Weep Not for the Knees" (Haydenwood).  
 "Do You Know My Garden" (Haydenwood).  
 1.14 p.m.—Meteorological Information; Shipping Intelligence; Weather for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports.  
 1.20 p.m.—MUSICAL HALF HOUR, arranged by MR. SUTHER BOWEN.  
 Piano-forte, "Butterfly" (Lavelle).  
 "Mimnet and Trin" (Schubert).  
 CONNIE SCHELLENBERGER.  
 Vocal, "Songs My Mother Taught Me" (Dvorak).  
 MARJORIE BAINES.  
 Flute, "Scherzino" (Anderson).  
 "Papillon" (Kohler).  
 LESLIE BARKLAM.  
 Vocal, "Vivante" (De'Acqua).  
 MARJORIE BAINES.  
 Flute, "Andalouse" (Poussard).  
 "Barcarolle" (Orensbach).  
 LESLIE BARKLAM.  
 1.50 p.m.—STUDIO ORCHESTRA.  
 "La Paloma" (Yrader).  
 2.6 p.m.—Close Down.  
 2.30 p.m.—Address from Royal Agricultural Society's Show Grounds, Flemington, Australian Butter and Cheese Factories Managers' and Secretaries' Association.  
 "Professor Huxtable's Message to Australia."  
 Speakers:  
 "AU FAIT" MATRON MORELAND.  
 JOE ARONSON AND HIS SYMPOCATING SYMPHONISTS.  
 FRANK AND FRANCIS LUIZ, Hawaiian Entertainers.  
 A. G. SPRY, Comedian.  
 LEE WHITE AND CLAY SMITH.  
 3.0 p.m.—JOE ARONSON AND HIS SYMPOCATING SYMPHONISTS.  
 "Burgundy" (Maile).  
 "Bye, Bye, Blackbird" (Dixon).  
 "To Night's My Night With Baby" (Meyer).  
 3.10 p.m.—"AU FAIT."  
 "Fashion Talk."  
 3.25 p.m.—JOE ARONSON AND HIS SYMPOCATING SYMPHONISTS.  
 "Half a Moon is Better Than No Moon" (Reynolds).  
 "Idolizing" (West).  
 "In A Little Spanish Town" (Wayne).  
 3.35 p.m.—FRANK AND FRANCIS LUIZ, Hawaiian Entertainers.  
 Duet, "Aloha Oe."  
 Song, "Hawaii Across the Sea."  
 Steel Guitar, "Hain Blues."  
 3.45 p.m.—JOE ARONSON AND HIS SYMPOCATING SYMPHONISTS.  
 "Me Too-Lo, Ho-Ha, Ha" (Brown).  
 "Hi, Ho, The Merric" (Woods).  
 "I've Been Waiting My Dreams Over You" (O'Meara).  
 3.55 p.m.—LEE WHITE AND CLAY SMITH.  
 "Moike McCall."  
 "Keep the Man You've Got."  
 "Maddy's Kalendar."  
 4.5 p.m.—JOE ARONSON AND HIS SYMPOCATING SYMPHONISTS.  
 "Take In The Sun, Hang Out The Moon" (Woods).  
 "That's Why I Love You" (Donaldson).  
 "The Length' Fo' You" (Hathaway).

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- 4.15 p.m.—A. G. SPRY, Comedian, "I Don't Think It's Quite in My Line."
- 4.20 p.m.—"My Wife."
- 4.25 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS, "The Village Blacksmith Owns The Village Now" (Morel), "Kenneth's Lullaby" (Kahle), "There Ain't No Man in My Baby's Eyes" (Kahle).
- 4.32 p.m.—MAYRON LAMBERT, "Infant Welfare."
- 4.40 p.m.—"General" News Service; Stock Exchange Information.
- 6.0 p.m.—Close Down.

EVENING SESSION.

- 6.40 p.m.—CHILDREN'S HOUR. Answers to letters and children's questions.
- 6.45 p.m.—MARY GILBERT, Poems, "Sand Between the Toes," "The Cow," "Story for the Little Ones," "Prince William."
- 6.55 p.m.—STUDIO ORCHESTRA, "The Bengali Picnic" (Cawley).
- 7.00 p.m.—ALMA HULLOCK, Soprano, "The Land of I Don't Know Where," "Hush-a-bye."
- 7.20 p.m.—MR. & B. McPHAIL, in a little talk on "The Big City of Santo Island, New Hebrides."
- 7.35 p.m.—"Argus" and "Herald" News Service; Weather Synopses; Shipping Movements.
- 7.45 p.m.—Stock Exchange Information.
- 7.52 p.m.—Fish Market Reports by J. R. Borrell, Ltd.; Rubber Prices.
- 7.55 p.m.—River Reports.
- 8.00 p.m.—Market Reports by the Victorian Producers Co-operative Co., Ltd.; Dairy Produce; Potatoes and Onions; Newmarket Sheep Sales; Poultry, Grain, Straw, Etc. and Jute.
- 7.55 p.m.—Fruit Market Reports by the Victorian Wholesale Grocers' Association, compiled by the "Fruit World," exclusive to B.L.O.

NIGHT SESSION.

- 8.00 p.m.—AGNES FORTUNE, Announcer, MAURICE DUDLEY, Sketch, "Helen's Joyride."
- 7.40 p.m.—Under the auspices of the University Extension Board, MR. O. de R. FOENANDER, LL.M., Lecturer in European History, and Political Economy, will speak on "The Breeding Ground of Fascism."
- 7.45 p.m.—MR. C. NUTTALL will speak on "What's on Tonight."
- 8.0 p.m.—MALVERN TRAMWAYS BAND, March, "Marine Artillery" (Rimmer), Overture, "Don Quixote" (Round).
- 8.10 p.m.—THE FUTURISTS, present their Radio Revue.

SOME HAPPENINGS.

- The Company ask you to listen to "Some Happenings."
- G. W. DESMOND and CYRIL NORTH-COTE have a few words together.
- IRA VANDA will sing a song to you. A Sketch, "IT MIGHT HAPPEN TO YOU." The Husband ..... CYRIL NORTH-COTE. The Wife ..... GUS DAWSON. The Friend ..... GUS DAWSON. DISMAL DESMOND, in a Comedy happening.
- THE COMPANY sing a Fivale.
- 8.10 p.m.—RAYMOND LAMBERT, Piano, "Black Keys Study" (Chopin).
- 8.17 p.m.—MELBOURNE CHORAL UNION, under direction Mr. W. James. Australian National Anthem, "Australia Oh Thou Favored Isle" (W. James), "Liberty" (Eaton Fanning), Dramatic Scene for Soprano, Solist and Chorus, Solist, MILDRED SAYTO ARNAV.
- 8.44 p.m.—MALVERN TRAMWAYS BAND, Tone Pictures, "Norwegian Cradle Song" (Morel), Trombone Solo, "The Switchback," Mr. C. Ring (Sutton).
- 8.54 p.m.—LEE WHITE and CLAY SMITH, "You Know, and I Know," "We've Got a Servant," "A Good Man Hard to Find."
- 8.41 p.m.—MALVERN TRAMWAYS BAND, Japanese Romance, "Popples" (Morel), Waltz, "Omaha" (Nebholz).
- 9.14 p.m.—MR. KENT HUGHES, M.L.A., "Inversvarity Athletics."

- 9.24 p.m.—MELBOURNE CHORAL UNION, under direction MR. W. JAMES. Solo and Chorus, "The Little Admiral" (Stanford), from the songs of the fleet. Solist, MR. ERIC JONES, "It Comes From the early Ages," The Banner of St. George (Egner).
- 9.31 p.m.—LESLIE JAMES ASKE, DOLIE WOLFE, Jeannetism and Jeannette, "It Was Admitted," "I Want You Back Again."
- 9.41 p.m.—MALVERN TRAMWAYS BAND, "Information in G's Banquet" (Aelter), "Information," "Boules-Vous" (Aelter).
- 9.52 p.m.—GRACE AND KEATS, "In Harmony."

10.00 p.m.—British Official Wireless News from Rugby; Accidents.

- 10.10 p.m.—RAYMOND LAMBERT, Piano, "Arabesque in A Major" (Debussy), "A Prelude" (Schumann).
- 10.20 p.m.—JOE ARONSON, assisted by IDA NEWTON, Joe Brennan, Dame, Ida Newton, "Selling a House," Ida Newton, "I'm a Good Girl Now," Joe Brennan, "Little of What You Fancy."
- 10.40 p.m.—MALVERN TRAMWAYS BAND, Selection, "Wilfred Sanderson's Songs" (Hummel).
- 10.45 p.m.—"Argus" News Service; Weather Forecast; Announcements.
- 10.50 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS, "Moonlight on the Gangway" (Wallace), "Some Other Bird Whistled a Tune" (Bryan).
- 11.0 p.m.—OUR GREAT THOUGHT, "Man, even the solemn debate one in society, and one to nature. It is only when he pays the second that he covers the first." —GILPIN.

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

- "Will the Years go Drifting By" (Kahn), "Capo Horns, Here Comes Charlie" (Meyer), "How Could Red Riding Hood" (Randolph), "Minnonette" (Nichols), "It Made You Happy" (Donaidsen), "Beds" (Frien), "Concert The Piano," Piano Solo (Conroy), "Meadow Lark" (Florito), "Stepping in Society" (Akst), "Calm Hawaiian Seas," "You Need Someone to Love" (Olson), "Hi, Ho, Ho, The Merry" (Egawa), "St. Louis Blues" (Rendy), "I Want a Pardon for Daddy" (Renti), "That's My Girl" (Davis), "By the Waters of Minnetonka" (Learns), "On The Riviera" (Rich).
- 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Tuesday.

MORNING SESSION.

- 11 a.m.—Selections on the Brunswick Programme.
- 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 noon.—Time signal chime from G.P.O. Studio barometer and outdoor thermometer readings. First weather forecast. Events of the day.
- 12.5 p.m.—Miss Noble—Cooking talk by courtesy of Metropolitan Gas Company.
- 12.20 p.m.—Musical selections from the Studio.
- 12.40 p.m.—Stock Exchange news. Market reports.
- 12.40 p.m.—Musical selections from the Studio.
- 12.55 p.m.—Shipping and mail news.
- 1 p.m.—Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Studio Orchestra: "The Girl in the Train" (Leo Fall).
- 2.45 p.m.—Miss Olga Nicolson, soprano: "The Summer Song" (Kahn), "From the land of the sky-blue waters" (Wakelsh-Cardini).

- 2.50 p.m.—Studio Orchestra: "Berceuse Nocturne" (Sgranuto).
- 3.8 p.m.—Mr. Ronald Brawley, cellist: "La Procelia" (Compost-Preller).
- 3.13 p.m.—Studio Orchestra: "The Star" (Leonard).
- 3.25 p.m.—Miss Nicolson, soprano: "Rachael" (Dunamond), "I heard you go by" (Daniel Wood).
- 3.31 p.m.—Studio Orchestra: "Allegretto" from Violin Sonata, No. 1 (Berg).
- 3.45 p.m.—Mr. R. F. Allen, solo voice: "Brian of Glenstal" (Murray-Gibbs), "A red rosebud" (Murray-Gibbs).
- 3.50 p.m.—Studio Orchestra: "Maledictio" (Giac-Sambati).
- 4 p.m.—Time signal chime. Second weather forecast. Studio Orchestra: "Spanish dances" (Moskowsky).
- 4.30 p.m.—Mr. R. F. Allen, solo voice: "Sappho Ode" (Brabant), "Troph of a passionate girl" (Lohr).
- 4.35 p.m.—Studio Orchestra: Selections.
- 4.45 p.m.—Evening Amusement Guide.
- 5 p.m.—Time signal chime. Close down.

EARLY EVENING SESSION.

- 6.45 p.m.—Children's Corner—Una Mac.

EVENING SESSION.

- 7.45 p.m.—British official wireless Press. Fat sheep and cattle report by Messrs. John McArthur and Co., Ltd. Studio barometer readings.
- 8 p.m.—Time signal chime from G.P.O. Miss Mollie Todd, contralto: "All Joy be Mine" (Sanderson), "Just because the wheels" (Russell).
- 8.7 p.m.—Mr. R. F. Allen, solo voice: "Ave Maria" (Schubert-Wilhelm), "The Bee" (Schubert).
- 8.15 p.m.—Mr. Joe Delany, tenor: "Give a man a horse he can ride" (O'Hara), "Life and death" (G. Tagini).
- 8.22 p.m.—One Act Play: "Her little scheme" (Mrs. Ed. Norton), Mrs. Arabella McCallar, Miss Myrtle Glover, Mrs. Jack Sonnet, Miss Hilda Parsonson.
- 8.37 p.m.—Mr. Arthur Shaw, baritone: "Echse" (Scott), "Marche" (Schetzing), "Marche" (Schetzing).
- 8.45 p.m.—Miss Beatrice Oakley, soprano: "St. Mi. Chia Mana Mimi" (Puccini), "Tip-Toe" (Cawley).
- 8.52 p.m.—Mr. Claude Kennedy, pianist: "Some de Ballet Op. 64, Nos. 1 and 2" (Col. Taylor).
- 9 p.m.—Miss Mollie Todd, contralto: "Sing Along" (Penn).
- 9.4 p.m.—Miss Mollie Todd and Miss Beatrice Oakley, vocal duet: "The walk at Belmont" (Eldora Serré).
- 9.8 p.m.—Mr. Eric Challiner, violinist: "The Carpoletto" (Ethel Barnes), "Capriccio Valze" (Wienlawski).
- 9.15 p.m.—Mr. Joe Delany, tenor: "The Garden of Happiness" (Wood), "My Little Banjo" (Richmond).
- 9.23 p.m.—Under the auspices of "The Arts and Crafts Society of Victoria," Mr. Michael O'Connell will speak on "Garden Pottery."
- 9.34 p.m.—Mr. Arthur Shaw, baritone: "My Prayer" (Scuderi), "Bedouin Love Song" (Pisanti).
- 9.45 p.m.—Miss Beatrice Oakley, soprano: "Waxa Pol" (Hil).
- 9.49 p.m.—Miss Beatrice Oakley and Miss Molly Todd, vocal duet: "The Village Birds' Farewell" (Mendelssohn).
- 9.53 p.m.—Mr. Claude Kennedy, pianist: "The Joy of Autumn," from New England (Idols (McDowall), "Shepherd's Hay" (Granger).
- At the piano, Mr. Claude Kennedy and Madame Mins Wilson.
- 10 p.m.—Time signal chime from G.P.O. Studio barometer readings.
- "Age" news bulletin, exclusive to 3AR. Loggitt's Ballroom Orchestra.
- 11 p.m.—Time signal chime from G.P.O. Close down.

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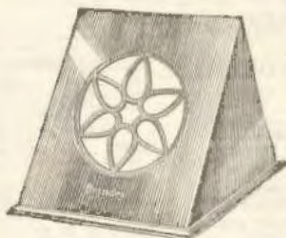
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4QG, BRISBANE.

Tuesday

MIDDAY SESSION.

- 1.0 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.
- 1.58 p.m.—From the Observatory: Standard Time Signal.
- 2.0 p.m.—Close Down.

AFTERNOON SESSION.

- 3.30 p.m.—MUSICAL PROGRAMME FROM THE STUDIO: Duo Art selection, "Rhapsodie Hongroise No. 10" (Liszt); Aeolian Vocalion selections: (a) violin, "Little Fiddlers" (Cannon), Percy Cochran; (b) song, "My Fairest Flower" (Stratner), Mr. Dick Henderson; Duo Art selection, "Dream of An Angel" (D'Arcy); Aeolian Vocalion selections: (a) fox-trot, "Let's Make Up" (Golden), Peggy's Orchestra; (b) haritone, "One of the Guards" (Fisher), John Thomas; Duo Art selection, "Robin's Return" (Fisher); Aeolian Vocalion selections: (a) march, "El Capitán" (Sonne), U.S.A. 7th Regiment Band; (b) bass, "The Mighty Dem" (Hisco), Mr. M. McEachern; Duo Art selection, "Palmas" Opus 49 No. 1 (Chopin).
- 4.15 p.m.—"Telegraph" News.
- 4.30 p.m.—Close Down.

EARLY EVENING SESSION.

- 6.0 p.m.—"Daily Standard" News.
- 6.30 p.m.—The Children's Session: Stories by Uncle Ben and Uncle Jim.
- 7.0 p.m.—Market Reports, Stock Reports.
- 7.30 p.m.—Weather News; Announcements.
- 7.45 p.m.—Standard Time Signal.
- 7.55 p.m.—Lectures: "Motors—Correct Lubrication Talk No. 4" by "Gargoyles".

NIGHT SESSION.

CITIZENS' EMPIRE CONCERT.

- The Grand Citizens' Empire Day meeting, which will be held in the Exhibition Hall, will be relayed. There will be addresses by prominent citizens and a big programme of national musical air by soloists, quartets, choirs and full bands.
- 8.0 p.m.—From the Exhibition Hall: Empire Day Celebration.
- 10.0 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

5CL, ADELAIDE

Tuesday

MORNING SESSION.

- 13 noon.—G.P.O. Chimes.
- 12.1 p.m.—Musical Selections.
- 12.30 p.m.—Advertiser News Service.
- 12.50 p.m.—Market Reports.
- 1.0 p.m.—G.P.O. Chimes.
- 1.1 p.m.—Musical Selections.
- 2.0 p.m.—G.P.O. Chimes and Close Down.

AFTERNOON SESSION.

- 3.0 p.m.—G.P.O. Chimes.
- 3.3 p.m.—Relay from Maple Leaf Cafe—Orchestral Selections.
- 3.45 p.m.—From the Studio: Recitals on the "New Reproducing Sonora" and the "Automatic Reproducer".
- 4.3 p.m.—G.P.O. Chimes.
- 4.1 p.m.—Relay from the Arcadia Cafe: Orchestral Selections.
- 4.36 p.m.—Station Announcements.
- 5.0 p.m.—G.P.O. Chimes and Close Down.

EVENING SESSION.

- 6.0 p.m.—G.P.O. Chimes.
- 6.1 p.m.—Dinner Music by Concert Garden Restaurant Orchestra.
- 6.45 p.m.—Bedtime Stories.
- 7.35 p.m.—Market Reports.
- 7.55 p.m.—A "Back up" talk by the Rev. G. E. Hale, B.A.
- 7.45 p.m.—Home Beautiful Talk by "Domus".
- 8.0 p.m.—G.P.O. Chimes.
- 8.1 p.m.—5CL Orchestra.

- 8.10 p.m.—Soprano Solo, Miss Florence Renzall.
- 8.15 p.m.—5CL Orchestra.
- 8.25 p.m.—Song, Mrs. E. Howe.
- 8.35 p.m.—Talk by Dr. Herbert Dwyer, M.A., B.Sc., M.P.
- 8.50 p.m.—5CL Orchestra.
- 9.0 p.m.—G.P.O. Chimes.
- 9.1 p.m.—Weekly Report.
- 9.1 p.m.—Advertiser News Report.
- 9.1 p.m.—Song, Miss Doris Cooper.
- 9.15 p.m.—One-act Comedy, by Mr. Frank Johnston and Miss Kath Wishart.
- 9.15 p.m.—5CL Orchestra.
- 9.25 p.m.—Song, Miss Florence Renzall.
- 9.32 p.m.—Violin Solo, Miss Adelaide Voglia.
- 9.37 p.m.—Recitation (chorus), Mr. Frank Johnston.
- 9.42 p.m.—5CL Orchestra.
- 9.55 p.m.—Song, Mrs. E. Howe.
- 10.0 p.m.—G.P.O. Chimes.
- 10.1 p.m.—Advertiser News Service.
- 10.15 p.m.—Selection, 5CL Orchestra.
- 10.15 p.m.—One-act Comedy by Mr. Frank Johnston and Miss Kath Wishart.
- 10.35 p.m.—Song, Miss F. Renzall.
- 10.45 p.m.—5CL Orchestra.
- 10.45 p.m.—Song, Miss D. Cooper.
- 10.49 p.m.—5CL Orchestra.
- 11.0 p.m.—G.P.O. Chimes and Close Down.

- 1.17 p.m.—Stock Exchange, third call.
- 1.30 p.m.—Studio music.
- 4.0 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION

- 7.30 p.m.—The Chimes of 2PC.
- 7.40 p.m.—The "Hello Man" talks to the child.
- 8.0 p.m.—A Serial Story.
- 8.10 p.m.—Dinner music.
- 8.10 p.m.—"Big Ben" late Sporting News.
- 7.30 p.m.—Advertiser's Market Reports (week-end, stock).
- 7.30 p.m.—Fruit and vegetable markets.
- 7.29 p.m.—Weather and shipping intelligence: stock Exchange.
- 7.26 p.m.—Late Evening News' news service.

NIGHT SESSION.

- 7.47 p.m.—Studio Chimes and announcements.
- 7.50 p.m.—Studio News.
- 8.0 p.m.—"Big Ben" broadcast from the HAY-MARKET THEATRE, SYDNEY: Operatic recitals under the baton of M. Stanley Pereira.
- 8.10 p.m.—Gems from "Old French Opera: Tambour Major" by members of the Musical Artisans, conducted by Mr. Elwood Arvey; Chorus and Orchestra.
- 8.25 p.m.—Mr. St. Quentin Downer, pianist: (a) "Nocturne C Minor" (Chopin), (b) "Etude C Sharp Minor" (Chopin), (c) "Etude B Minor" (Chopin).
- 8.35 p.m.—Mr. Alfred O'Shea, Australia's first tenor.
- 8.42 p.m.—Mr. Syd. Smith will complete his series "Crickets Talk": "Some further anecdotes from the Australian Cricket Tour."
- 9.0 p.m.—Further gems from the French opera, "Tambour Major."
- 9.10 p.m.—Broadcast from the Haymarket Theatre, Sydney: Sun Moon Lee's Chinese Jazz Band.
- 9.25 p.m.—Final item from the French opera, "Tambour Major."
- 9.35 p.m.—Mr. St. Quentin Downer, pianist: (a) "Berceuse" (Grieg), (b) "Rhapsodie No. VI." (Liszt).
- 9.44 p.m.—Mr. Alfred O'Shea, Australia's foremost tenor.
- 9.54 p.m.—2FC Dances Band; conductor, Mr. Eric Peters.
- 10.0 p.m.—Mr. Alfred O'Shea, tenor.
- 10.12 p.m.—Haymarket Operatic Orchestra.
- 10.20 p.m.—2FC Dance Band.
- 10.30 p.m.—Late News and announcements.
- 10.53 p.m.—2FC Dances Band until 11 o'clock.
- 11 p.m.—"Big Ben."
- News at Anthon.
- Close down.

2BL, SYDNEY.

Wednesday.

- 10 noon.—G.P.O. clock and chimes.
- 12.1 p.m.—Special Ocean forecast and weather report.
- 12.3 p.m.—Musical programme from the studio.
- 12.12 p.m.—Information—Mail and shipping and movements of important ships.
- 12.16 p.m.—Sydney Stock Exchange Calls.
- 12.17 p.m.—Boats in call by wireless.
- 12.20 p.m.—Fruit Market Report.
- 12.21 p.m.—Vegetable Market report.
- 12.22 p.m.—London Metal Market report.
- 12.24 p.m.—Dairy and Farm Produce Market report.
- 12.27 p.m.—Racing Rooms.
- 12.30 p.m.—G.P.O. Clock and chimes.
- 12.32 p.m.—Musical programme from studio.
- 12.40 p.m.—Sporting Information (Sun).
- 12.45 p.m.—Musical programme from the studio.
- 1.0 p.m.—G.P.O. Clock and chimes.
- 1.1 p.m.—Pianoforte Lecture Recital by Arnold H. Hode, in the Fine Art Gallery, Anthony Hordern.
- 1.40 p.m.—Musical programme from the studio.
- 1.50 News from the "Sun."
- 2.0 p.m.—G.P.O. Clock and chimes.
- Racing information broadcast by courtesy of the "Sun" immediately after each race.
- 2.1 p.m.—Talk to Children and special entertainment for Children in Hospital.

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**International Radio Co. Ltd.**

**200 Castlereagh Street, SYDNEY**

And Wellington, N.Z.

2.20 p.m.—Talk on "Archery" by Miss Gwen Varley. Broadcasters' Women's Sports Authority.  
 Social Notes—Replies to correspondents by Mrs. Jordan, Walford Talk by Dr. Morris.  
 3 p.m.—G.P.O. Clock and chimes.  
 3.10 p.m.—Musical programme from studio.  
 3.15 p.m.—News from the "Sun."  
 3.20 p.m.—G.P.O. Clock and chimes.  
 2.81 p.m.—Talk on "The Great Composers" illustrated on Gramo Phon.  
 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 studio.  
 4.41 p.m.—News from the "Sun."  
 4.50 p.m.—Racing Resumé.  
 4.52 p.m.—Producers' Distributing Society's Fruit and Vegetable Market, tram.  
 4.44 p.m.—Resume of night programme.  
 4.55 p.m.—Announcements.  
 4.55 p.m.—Special Ocean Forecast.  
 5 p.m.—G.P.O. Clock and chimes. Close down.

## EARLY EVENING SESSION.

6.45 p.m.—G.P.O. Clock and chimes.  
 6.48 p.m.—Daddy Longlegs will entertain the kiddies.  
 6.40 p.m.—Musical programme from the studio.

## SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.  
 Australian Mercantile Land and Finance Co.'s report.  
 Weather Report and forecast by courtesy of Govt. Meteorologist.  
 Freshness Distributing Society's Fruit and Vegetable Market report.  
 Stock Exchange reports.  
 Grain and Fodder report (S.M.).  
 Dairy Produce report (S.M.).  
 7.15 p.m.—Country News from the "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' Topical chorus.  
 8.3 p.m.—United charities concert broadcast from King's Hall.  
 10.15 p.m.—Cec. Morrison and his Glee-Club broadcast from Ballroom of the Bond Casino. During intervals between dances news reports by courtesy of "Sun" will be broadcast.  
 11 p.m.—G.P.O. Clock and chimes.  
 National Anthem.

## 2GB, SYDNEY

## Wednesday.

6.5 a.m.—Music.  
 6.5 a.m.—Cherrie Talk.  
 9.15 a.m.—Music.  
 9.25 a.m.—Psychological Class.  
 9.40 a.m.—Music.  
 9.45 a.m.—Health and Diet Talk.  
 10 a.m.—Close down.

## AFTERNOON SESSION.

2.30 p.m.—Music.  
 2.37 p.m.—Talk.  
 2.52 p.m.—Piano solos by Mrs. Stiles.  
 4.7 p.m.—"Theosophy" by Mrs. Crowther.  
 4.22 p.m.—Music.  
 4.30 p.m.—Close down.

## EVENING SESSION.

6.20 p.m.—Children's Session.  
 7 p.m.—Music.  
 7.5 p.m.—Address by the Rev. Harold Morton.  
 7.15 p.m.—Benediction of the Most Holy Sacrament.  
 7.45 p.m.—Talk to Mrs.  
 7.55 p.m.—Instrumental Trio: MONICA HORDER, MURIELLE LANG, ADA BROOK.  
 8.5 p.m.—Address by Professor Bruce Wood.  
 8.20 p.m.—Songs by ETHEL JONES.  
 1. Angels guard thee, Godard.  
 2. The Bull room, Arrdale.  
 3. 30 p.m.—Cello solos by MURIELLE LANG.  
 1.  
 2.  
 3. 10 p.m.—S.E. Vocal Quartet:  
 1. "Glorious Apollo."  
 2. "Will ye ever come back again."  
 3. "The Hardy Norseman's hour of year."  
 ETHEL JONES, EVA CASIMIR, THOS. HALL, CLEMENT HOSKING.

8.50 p.m.—Announcements.  
 8.55 p.m.—Violin solo by DAN SCULLY.  
 9 p.m.—Tonal talk.  
 9.15 p.m.—Songs by Clement Hosking.  
 1. "The Road side Fire" Vaughan Williams.  
 2. "Hymn" Walford Drey.  
 9.25 p.m.—Duets for two violins with piano accompaniment. DAN SCULLY, MONICA HORDER, ADA BROOK.  
 9.35 p.m.—S.E. Vocal Quartet:  
 1. "Silent Night."  
 2. "Hark ye now endless King."  
 3. "Silver moonlight winds are blowing."  
 9.45 p.m.—Duets for two violins with piano accompaniment. DAN SCULLY, MONICA HORDER, ADA BROOK.  
 9.55 p.m.—Cherrie Talk.  
 10 p.m.—Close down.

## 3LO, MELBOURNE.

## Wednesday.

MIDDAY SESSION.  
 12 noon.—Time Signal. British official wireless news from Rugby. Router's and the Australian Press Association cables.  
 "Argus" and "Herald" news service.  
 12.20 p.m.—MAXWELL CAREW, comedian:  
 1. Chinese Girl.  
 2. "Operatic Medley" (Original).  
 12.30 p.m.—JOE ARONSON & HIS SYNCO-PATING SYMPHONISTS:  
 "In a Little Garden" (Valse).  
 "Mary Lou" (Tombola).  
 "No Fool" (Czowma).  
 12.40 p.m.—Stock Exchange information.  
 12.50 p.m.—JOE ARONSON & HIS SYNCO-PATING SYMPHONISTS:  
 "Indian Love Call" (Friml).  
 "Rose Marie" (Friml).  
 "Gimme a little kiss, will ya huh" (Turk).  
 1 p.m.—LEW JAMES AND DODIE WOLFE, Jewmerries and Jazzbretts:  
 "Meadow she goes to be alighted."  
 "She's not nothing above the cars."  
 1.10 p.m.—JOE ARONSON & HIS SYNCO-PATING SYMPHONISTS:  
 "Any Joe To-day, Lady" (Bellard).  
 "Princess Betty's Lullaby" (Stemham).  
 "Fire, Fire, Fire, Turn the Hoe on Me" (Gay).  
 1.20 p.m.—Meteorological information. Shipping intelligence. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports.  
 1.25 p.m.—JOE ARONSON & HIS SYNCO-PATING SYMPHONISTS:  
 "Satin" (T. Sinal).  
 "Precious" (Whiting).  
 "Nepellian Nights" (Zamecnick).  
 1.35 p.m.—MARIE BREMMER, soprano:  
 "A million little diamonds" (Oscar N. Schmilke).  
 1.42 p.m.—JOE ARONSON & HIS SYNCO-PATING SYMPHONISTS:  
 "Hi, Diddle, Diddle" (Coos).  
 "At peace with the world" (Berlin).  
 "Baby Face" (Davis).  
 1.52 p.m.—MARIE BREMMER, soprano:  
 "The Early Morning" (Graham Peck).  
 "The Nightingale" (Halfann Kjerulf).  
 2 p.m.—Close down.

## AFTERNOON SESSION.

2.15 p.m.—Description of the Hurdle Race, Ascendable Park, by "Musket," of the "Sporting Globe."  
 2.20 p.m.—Description of 100 yards High Jump, Championship, Inter-Varsity Sports, Melbourne Cricket Ground.  
 2.45 p.m.—Description of the Maiden Plate, Ascendable Park Races, by "Musket," of the "Sporting Globe."  
 2.50 p.m.—Results and descriptions of 80 yds. and 120 yds. Hurdle; 230 yards championship, Inter-Varsity Sports, from the Melbourne Cricket Ground.  
 Speaker: CAPTAIN DONALD MACLEAN.  
 An Afternoon with the Royal Victorian Institute for the Blind.  
 MR. H. L. PALMER, Musical Director.  
 MR. S. W. HEDGER, Supt. and Secretary.

8 p.m.—BLIND ORCHESTRA:  
 Overture, "Foot and Pansal."  
 8.7 p.m.—A. HARRIS, violin:  
 "Souvenir de Moscow."  
 8.11 p.m.—W. WILK, tenor:  
 Song, "Nita Gitan."  
 8.15 p.m.—Description of the Ascendable Plate, Ascendable Park Races, by "Musket," of the "Sporting Globe."  
 8.30 p.m.—BLIND ORCHESTRA:  
 Selection, "Popular Dance Music."  
 8.28 p.m.—CAPTAIN DONALD MACLEAN:  
 "Sharp's latest raid on the Pacific Coast."  
 8.45 p.m.—Description of Ascendable Park Handicap, Ascendable Park Races, by "Musket," of the "Sporting Globe."  
 8.50 p.m.—GEORGE FINDLAY, piano:  
 "Humorsky" (Rachmaninoff).  
 8.55 p.m.—BLIND ORCHESTRA:  
 Lullaby, "Little Mother."  
 8.58 p.m.—Description of Mile and 440 Yards Championship, Inter-Varsity Sports, Melbourne Cricket Ground.  
 8.15 p.m.—Description of Ascendable Pure, Ascendable Park Races, by "Musket," of the "Sporting Globe."  
 8.20 p.m.—BLIND ORCHESTRA:  
 Vocal Quartet, "Come, Hark! the Re."  
 8.24 p.m.—J. MURPHY, flute solo:  
 "Carnival de Venice."  
 8.28 p.m.—J. BYRNE:  
 Song, "Youth."  
 8.32 p.m.—BLIND ORCHESTRA:  
 March, "Gallant."  
 8.45 p.m.—FRED STITTLIFFE:  
 Song, "Thank God for a Garden."  
 8.30 p.m.—BLIND ORCHESTRA:  
 Popular Dance Music.  
 8.45 p.m.—Description of the Welter Handicap, Ascendable Park Races, by "Musket," of the "Sporting Globe."  
 8.50 p.m.—"Herald" News Service. Stock Exchange information.  
 8.55 p.m.—Results and description of Hammer Throw, Pole Vault, and Relay Race (Medical) Championship, Inter-Varsity Sports, Melbourne Cricket Ground.  
 9 p.m.—Close down.

## EVENING SESSION.

Speakers: "MARY, MARY" QUITE CON-TRARY.  
 MR. A. H. MCPHAIL.  
 THE STUDIO ORCHESTRA, direction, BESSIE GAISON.  
 8.10 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.  
 8.15 p.m.—"MARY, MARY" QUITE CON-TRARY. Story for the little ones: "The Golden Chest."  
 8.5 p.m.—STUDIO ORCHESTRA:  
 "Punch and Judy" (H. Herbert).  
 8.15 p.m.—MR. A. H. MCPHAIL will tell the children about "Recruiting Labor in the New Hebrides."  
 8.22 p.m.—"MARY, MARY" QUITE CON-TRARY. Story for the bigger children.  
 8.35 p.m.—"Argus" and "Herald" news service. Weather and serial mail information by the Australian Aerial Service, Ltd.  
 8.47 p.m.—Stock Exchange information. Overseas shipping.  
 8.52 p.m.—Fish market reports by J. R. Berrek, Ltd. Habitat prices.  
 8.58 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. New market sheep sales. Poultry, grain, straw, hay, etc., chaff, dairy produce, potatoes and onions.  
 Wholesale Fruit and Vegetable Association, compiled by "The Fruit World," exclusive to 3LO.  
 Accompanied by AGNES FORTUNE.  
 Announcer: MAURICE DUDLEY.  
 7.15 p.m.—Under the auspices of the Agricultural Department, Mr. A. C. RUGG, chief poultry expert, will speak on "Egg Laying Competitions."  
 7.30 p.m.—"CARGOYLE"—"The relation of correct lubrication to power Farming." A talk of interest to the man on the land who uses automatic oil.  
 7.45 p.m.—"CATHY" BETERS:  
 "Books Wise and Otherwise."

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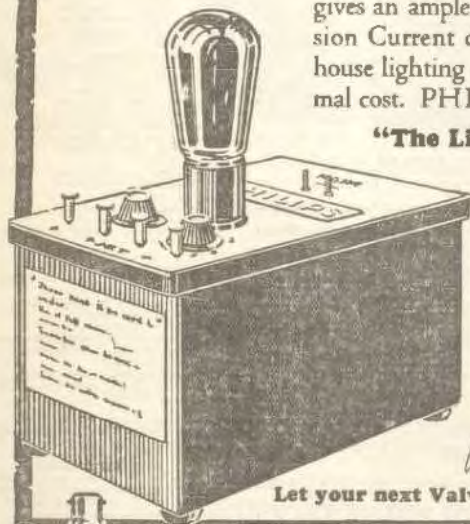
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# PHILIPS

LAMPS AND RADIO



3 p.m.—"MARIANA"—MADAME ABBOTTON'S TRUPLS AND STUDIO ORCHESTRA OPERA.

IN THREE ACTS.

The music composed by W. VINCENT WALLACE.  
The words by Edward Fitzball.

DRAMATIS PERSONAE.

Mariana, Florence Blita.  
Lazarillo, Gertrude Griffin.  
The Marchioness Di Montefiore, Marie Griffin.  
Don Caesar De Bazan, Joe Delaney.  
Don Jose De Santarosa, John Donovan.  
Captain of the Guard.  
The Marquis De Montefiore, R. Chandler.  
The Arcades.  
The King, Bert Palmer.  
Chorus of soldiers, Gipsies, and populace.

3 p.m.—"Mariana"—Continued.  
The whole work by MADAME ETHEL ABBOTTON'S pupils, assisted by the STUDIO ORCHESTRA, under direction, REBEKAH GAINSON.

ARGUMENT.

Mariana, a handsome Gitan, whilst singing to the crowd of people in a square in Madrid, attracts the admiration of the King. Don Jose, an unscrupulous courtier, observing this, determines to satisfy the King's whim and then to betray him to the Queen, with whom he is bold enough to be madly in love.

An impetuous spendthrift, Don Caesar de Bazan, arrives upon the scene, and in order to protect a poor boy named Lazarillo from arrest, challenges the Captain of the Guard, an action which, by a recent edict of the King, entails death by hanging. He is arrested, and imprisoned, but by Don Jose's influence his sentence is changed to the more scholastic penalty of being shut in a condition that he marries a veiled lady; this he consents to do. After the ceremony, he is led away to the fortress to be shot. Don Jose conveys the veiled wife, who is none other than "Mariana," to the palace of the Marquis Montefiore, where the King is introduced to her as the Count de Bazan whom she has married. Unfortunately for Don Jose's scheme, the real Count was not shot dead, as the bullets had been withdrawn from the guns by Lazarillo, whilst the soldiers were drinking at the wedding feast, and he now appears, dressed as a monk, and smashes the anvilons for his wife. Don Jose persuades the Marchioness to play the part of the veiled lady, but the Count discovers the imposture, and Don Jose is compelled to have him re-arrested to prevent his meeting Mariana, who is conveyed by his orders to the Villa d'Aranjuez. Here the King pursues her with his unwelcome attentions, but she remains true to Don Caesar; the latter having escaped from prison, forces his way into the room, and sees Mariana leaves the King. In the altercation, which ensues, the King, whom Don Caesar recognises, says he is the Count de Bazan, and so Don Caesar assumes the character of the King, and learns for the first night of his condemnation; this pardon was intercepted by Don Jose. The King, receiving a message from the Queen, departs, giving orders to Lazarillo for the re-arrest of the unfortunate Count Caesar, who, taking all peril, sees Mariana, and proves that he is the man to whom she was mysteriously wedded. He then climbs over the wall of the villa into the Royal Gardens adjoining, intending to beg the Queen's help, but arrives just in time to kill Don Jose, who is pressing his suit upon the indignant Queen. He returns to the villa to find the King there again, who, on hearing of his loyal bravery, restores to him his bride, and makes him Governor of Valencia.

The scene is laid in Madrid.

ACT I.

Opening Chorus: "Sings, pretty maiden, sing."  
Romance (Mariana) and Chorus: "It was a knight of princely mien."  
Romance (Mariana): "Tis the harp in the air."  
Angels (chorus): "Angels that around us hover."  
Duet (Mariana and Don Jose): "Of fairy wand had I the power."  
Song (Don Caesar): "Ah the world over."  
Quartet and Chorus (Lazarillo, Don Caesar, Captain, and Don Jose): "See the exultant."  
Chorus: "Pretty Gitan."  
Finale (Mariana, Lazarillo, Don Caesar, Don Jose, Alcalde, and Chorus): "Farewell, my gallant captain."  
ACT II.  
Romance (Lazarillo): "Alas, those chimes so sweetly ringing."  
Duet (Don Caesar and Lazarillo): "Hither as I came."  
Trio (Don Caesar, Lazarillo, and Don Jose): "Turn on, old time."  
Song (Don Caesar): "Yes, let me like a soldier fall."  
Ballad (Don Jose): "In happy moments, day by day."  
Quartette and Chorus (Mariana, Lazarillo, Don Caesar and Don Jose): "Health to the Lady."  
Chorus: "Oh, what pleasure."  
Waltz.  
Song (King): "The Mariner in his barge."  
Song (Don Caesar): "There is a flower that blossoms."  
Quartet (Marchioness, Don Caesar, Don Jose, and Marquis): "Ah, confusion."  
Finale (Mariana, Don Caesar, Don Jose, and Chorus): "That voice, that voice."  
ACT III.  
Introduction.  
Recit (Mariana): "How dreary to my heart."  
Recit (Mariana): "Seems that are lost."  
Song (Don Jose): "This heart by woe o'ertaken."  
Duet (Don Caesar and King): "I am the King of Spain."  
Duet (Mariana and La Caesar): "Oh, Mariana."  
Prayer (Mariana and Lazarillo): "Sainted mother."  
Trio (Mariana, Don Caesar and King): "Remorse and dishonour."  
Finale (Mariana and Chorus): "With respect glowing."  
10.15 p.m.—METEOROLOGICAL INFORMATION. ANNOUNCEMENTS.  
10.25 p.m.—LEE WHITE AND CLAY SMITH:  
"Keep on Smiling."  
"Back Again."  
"All the men are wonderful."  
10.45 p.m.—DOROTHY ROXBURGH, viola:  
"Au Pigitave Pousse" (Lanret).  
10.49 p.m.—A. G. SPRY, comedian:  
"Here's my two bob gun."  
"Fall out."  
10.47 p.m.—JOE ARONSON & HIS SYMPO-PATING SYMPHONISTS:  
"Nobody but you" (O'Hagan).  
"My Cuties Due two to two Today" (Robin).  
"There's a Boatman on the Volga" (Eagles).  
"That's Why I Love You" (Dandelson).  
11 p.m.—OUR GREAT THOUGHT:  
"Do not speak of your happiness to a man less fortunate than yourself."  
Platach.  
11.1 p.m.—JOE ARONSON & HIS SYMPO-PATING SYMPHONISTS:  
"Love Bound" (Rapp).  
"Oh, Miss Hannah" (Deppen).  
"The Far Away Bells" (Gordon).  
"Oriental Moonlight" (Seasongs).  
"Crying for the Moon" (Cooley).  
"Me Too Ho, Ho, Ha, Ha" (Woods).  
"The Me To Your Apron Strings" (Shay).  
"Dug on the Piano" (Shapiro).  
"Blame It On the Waltz" (Kahn).  
"Let Me Early in the Morning" (Bale).  
"Lonesome and sorry" (Davie).  
"While the Sahara Sleeps" (Nichols).  
11.49 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Wednesday.

### MORNING SESSION.

11 a.m.—Selections on the Brunswick Piano-trio.  
11.30 a.m.—British official wireless press reports.  
Express train information.  
"Age" news bulletin, exclusive to 3AR.  
15 noon—Time signal chime from G.P.O.  
Studio barometer and outdoor thermometer readings.  
Final weather forecast.  
Events of the day.  
12.5 p.m.—Musical selections from the Studio.  
12.30 p.m.—Stock Exchange news.  
Market reports.  
12.45 p.m.—Musical selections from the Studio.  
12.55 p.m.—Shipping and mail notices.  
1 p.m.—Close down.  
SPENDALE PARK RACING CLUB.  
Results after each race and at half hourly intervals.

### AFTERNOON SESSION.

2.30 p.m.—Studio Orchestra:  
Under the direction of Mr. Donald Brasch.  
"A Lone Sailor" (M. L. Lake).  
2.45 p.m.—Mr. Ernie Pettifer, saxophone:  
"Valse Brillant" (Pettifer).  
2.49 p.m.—3AR Dance Orchestra:  
"Drifting and Dreaming."  
"Ho, Ho, Ha, Ha, Me Too."  
"A Japanese Sunset."  
2.50 p.m.—Miss Ethel Brasch, pianist:  
"Impromptu in A Flat" (Schubert).  
3.14 p.m.—Studio Orchestra:  
Selection, "Irene" (Tierzey).  
3.30 p.m.—Mr. B. Pettifer, violinist:  
"Chant Divin" (Rimsky-Korsakov).  
3.34 p.m.—3AR Dance Orchestra:  
"A message from Missouri."  
"Fire."  
3.52 p.m.—Mr. Squire, baritone:  
"O, Star of Eve" (Wagner).  
"Ave Maria" (Kahn).  
4 p.m.—Time signal chime from G.P.O.  
Second weather forecast.  
Studio Orchestra: "Solis of English Folk Songs" (Williams).  
4.20 p.m.—Mr. Squire, baritone:  
"On wings of song" (Mendelssohn).  
"Now sleep the crimson petals" (Quilter).  
4.23 p.m.—3AR Dance Orchestra:  
"I'm on my way to dreamland."  
"Ceylon for the Moon."  
4.40 p.m.—Mr. B. G. Snape, of the "Made in Australia" Council, will lecture on "Australian-made Goods."  
4.56 p.m.—Evening Amusement Guide.  
5 p.m.—Time signal chime from G.P.O.  
Close down.

### EARLY EVENING SESSION.

6.48 p.m.—Children's Corner—Jimmy Jackero and the Farmyard Five.

### EVENING SESSION.

7.50 p.m.—Mr. F. Mather, Captain Esunden Football Club, talk: "Football Prospects."  
7.58 p.m.—British official wireless press. Studio barometer readings.  
8 p.m.—Time signal chime from G.P.O.  
Mr. Miles Crowe, concert:  
"O, Flowery Daisies" (Haydn Wood).  
"Sincerity" (Emille Clarke).  
8.7 p.m.—Mr. Ernest Sage, baritone:  
"All thro' the night" (Old Welsh).  
"O, pure and tender star of eve" (Wagner).  
8.15 p.m.—Mr. Bert Skilling, entertainer:  
"I'm a business man" (Albert Whelan), story.  
8.23 p.m.—Miss Marie Stewart, Miss Winnie Mayberry, Mr. Edwin Hoole, and Mr. Ernest Sage, quartette party:  
"Rose of my heart" (Lohr).  
"De ring call come" (Scott Gatty).  
8.50 p.m.—Mr. Walter Quirk, solo pianist:  
"To the Spring" (Grieg).  
"Polonaise in A Flat" (Chopin).

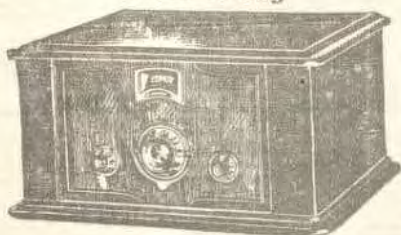
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# Thursday, May 26

## 2FC, SYDNEY.

## MIDDAY SESSION.

- 12 noon.—"Fig Bee" and programme announcements.
- 12.2 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.
- 12.5 p.m.—Studio music.
- 12.10 p.m.—Summary of "Sydney Morning Herald" news service and cables.
- Rugby Wireless News.
- 12.25 p.m.—A reading from the Studio.
- 12.40 p.m.—Miss Kathleen Stollery, soprano.
- 12.44 p.m.—Studio music.
- 1 p.m.—"Big Ben." Weather intelligence.
- 1.3 p.m.—"Evening News" midday news service.
- Producers' Distributing Society's Report.
- 1.20 p.m.—Studio music.
- 1.23 p.m.—Stock Exchange, second call.
- 1.30 p.m.—Marching music for the school children.
- 1.40 p.m.—Studio music.
- 1.45 p.m.—Miss Kathleen Stollery, soprano.
- 1.50 p.m.—Studio music.
- 1.52 p.m.—Last minute sporting information.
- A Talk by the 2FC Reading Commissioner.

## AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and announcements.
- 2.3 p.m.—Mr. Will Bowyer, basso.
- 3.10 p.m.—New records.
- 3.15 p.m.—Pianoforte solos.
- 3.30 p.m.—Marching music for the school children.
- 3.40 p.m.—From Farmer's Tea Rooms: Miss Eileen Crowley, soprano.
- "Forest Echoes" (Philips).
- 3.45 p.m.—A Reading from the Studio: Dickens.
- 4 p.m.—From Farmer's Tea Rooms: Miss Aileen Bear, mezzo.
- "The Old and Young Matie" (Columbia).
- 4.10 p.m.—Studio music.
- 4.15 p.m.—Mr. Will Bowyer, basso.
- 4.16 p.m.—Studio music.
- 4.20 p.m.—From Farmer's Tea Rooms: Miss Eileen Crowley, soprano.
- "The Princess" (Hivrichs).
- 4.25 p.m.—Studio music.
- 4.40 p.m.—From Farmer's Tea Rooms: Miss Aileen Bear, mezzo.
- "Wings" (D'Hardest).
- 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" talks to the children.
- 6.30 p.m.—A Serial Story.
- 6.40 p.m.—Dinner music.
- 7 p.m.—"Big Ben." Last minute sporting information.
- 7.10 p.m.—Dalgety'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.
- 7.58 p.m.—A Talk by the Technical Editor of "Wireless Weekly."
- 8 p.m.—BROADCAST FROM THE LYCKOM THEATRE, SYDNEY: Orchestral items.
- 8.10 p.m.—From the Studio: Miss Eileen Gray, contralto.
- "Humility" (Ivory).
- 8.14 p.m.—Congress Hall Band from the Studio:
- (a) March, "The Battle Line" (Koszarowski).
- (b) Cornet solo, "The Lost Chord" (Sullivan).
- With Band accompaniment, Bandman T. Smith.

- 8.37 p.m.—Mr. Edwin Hoake and Mr. Ernest Sage, vocal duets.
- "The King's Rocco" (Bohner).
- "The moon hath raised her lamp above," from "Gilly of Killarney" (Benefield).
- 8.45 p.m.—Miss Winnie Mayberry, contralto.
- "Sill as the night" (Bohm).
- "Danny Boy" (Old Irish).
- 8.52 p.m.—Mr. Millar Crowe, tenor.
- "Zelda" Caprice (Percy Code).
- 8.58 p.m.—Mr. Edwin Hoake, tenor.
- "My Queen" (Blumenthal).
- "O, Flower of all the World" (Woodford-Finden).
- 8.6 p.m.—Mr. Bert Shilling, entertainer.
- "To-morrow Night" (Wynham).
- 8.14 p.m.—Quartette Party.
- "Basso Profundo" (Hiss).
- "To the Death" (Whelan).
- 8.21 p.m.—Mr. Allan Lorraine, the well-known entertainer, in an interesting lecture, entitled, "The Experiences of an entertainer."
- 8.38 p.m.—Miss Winnie Mayberry and Miss Marie Stewart, vocal duets.
- "In the Spring Time" (Newton).
- "O, wert thou in the Cauld Blast!" (Mendelssohn).
- 8.45 p.m.—Mr. Walter Quirk, solo pianist.
- "Rhapsodie, No. 12" (Liszt).
- "To a Hindoo" (Brahm).
- 10 p.m.—Time signal chime from G.P.O. Studio barometer readings.
- "Age" news bulletin.
- Leggett's Ballroom Orchestra.
- 11 p.m.—Time signal chime from G.P.O. Close down.

## 4QG, BRISBANE.

## Wednesday.

- EARLY MORNING SESSION.
- 6.50 a.m.—Physical Culture session.
- 7.45 a.m.—Close Down.
- MIDDAY SESSION.
- 1.0 p.m.—Market Reports: Weather Information, "The Daily Mail" and "The Daily Standard" News.
- 1.20 p.m.—From the G.P.O.: Lunch Hour Music played by the Postal Institute Orchestra.
- 1.58 p.m.—From the Observatory: Standard Time Signal.
- 2.0 p.m.—Close Down.
- AFTERNOON SESSION.
- 2.30 p.m.—From Hotel Carillon: Afternoon Tea Music from the lounge, played by Hotel Carillon Symphony Orchestra.
- 4.15 p.m.—From the Studio: "Telegraph" News.
- 4.30 p.m.—Close Down.
- EARLY EVENING SESSION.
- 6.0 p.m.—"Daily Standard" News: Announcements.
- 6.30 p.m.—The Children's Hour: Stories by "Little Miss Brisbane."
- 7.0 p.m.—Market Reports: Stock Reports.
- 7.30 p.m.—Weather News: Announcements.
- 7.43 p.m.—Standard Time Signal.
- 7.45 p.m.—Lectures: "Farm Accounts—An Important Part of Farm Business," by Mr. L. A. Calver, Queensland Agricultural High School and College.
- NIGHT SESSION.
- A PROGRAMME FROM MR. GRAVATT.
- The whole of to-night's programme will be relayed from the Soldiers' Memorial Hall, Mt. Gravatt.
- 8.0 p.m.—FROM MT. GRAVATT: Overture.
- "Leone" (Stahl), the Studio Orchestra (conductor, Mr. A. R. Featherstone); bass solo, "The King's Minaret" (Pissotti). Mr. Stanley Tambling; Hawaiian instrumentalist, the Kalua Trio; soprano solo, "Break of Day" (Sanderson), Miss Jean McDougal; monologue, "The Child Minder" (Dobson), Miss Anne Farney; male quartette, "The Bahbah Cill" (Reciter), the Lyric Male Quartette Party; popular number, "Aly Ice," the Studio Orchestra (vocal refrain by Mr. C. V. Woodland); baritone solo, "God Made Them Mine" (Wood), Mr. A. N. Falk; valse, "Dreams of the Future" (Brooks), the Studio Orchestra; tenor solo, "When Other Lips" (Balfie), Mr. George Williamson.

- 9.0 p.m.—From the Studio: Metropolitan Weather Forecast.
- 9.5 p.m.—FROM MT. GRAVATT: Hawaiian instrumentalists, the Kalua Trio; bass solo, "The Miner" (Soltau), Mr. Stanley Tambling; tenor solo, (a) "Sabara" (Nichols), (b) "Say, Mister, Have You Met Kooie Sister" (Rose), the Studio Orchestra; vocal solo, selected, Little Miss Jorgensen; male quartette, "A Father's Lullaby" (Oakley), the Lyric Male Quartette; tenor solo, "Look Down, Dear Eyes," Mr. George Williamson; characteristic, "The Hunting of the Snark" (Hingham), the Studio Orchestra; soprano solo, Rose Maria, Miss Eileen McLennan; monologue, "The China Figure," Miss Agnes Finlay; Hawaiian instrumentalists, the Kalua Trio; baritone solo, "Lorraine" (Sanderson), Mr. A. N. Falk; intermission.
- "Love's Message" (Elliot), the Studio Orchestra; male quartette; (a) "Come Back to Dook" (Turner), (b) "When the Red Wheel Rollin'" (Turner), the Lyric Male Quartette; march, "The Convoy" (Frell), the Studio Orchestra.
- 10.0 p.m.—From the Studio: "The Daily Mail" News: Weather News.

## SCL, ADELAIDE.

## Wednesday.

- MORNING SESSION.
- 12 p.m.—G.P.O. chimes.
- 12.1 p.m.—Reads of the "New Reproducing Sorens" and the "Autoneo Reproducer."
- 12.30 p.m.—"Advertiser" news service.
- 12.50 p.m.—Market reports.
- 1 p.m.—G.P.O. chimes.
- 1.1 p.m.—Musical programme continued.
- 2 p.m.—G.P.O. chimes and close down.
- AFTERNOON SESSION.
- 3 p.m.—G.P.O. chimes.
- 3.1 p.m.—Relay from the Maple Leaf Cafe—Orchestral selections.
- 3.40 p.m.—From the Studio: Details of the "New Reproducing Sorens" and the "Autoneo Reproducer."
- 4 p.m.—G.P.O. chimes.
- 4.1 p.m.—Relay from the Arcadia Cafe—Orchestral selections.
- 4.55 p.m.—Station announcements.
- 5 p.m.—G.P.O. chimes and close down.
- EVENING SESSION.
- 6 p.m.—G.P.O. chimes.
- 6.1 p.m.—Dinner music by the Covent Garden Orchestra.
- 6.45 p.m.—Bedtime stories.
- 7.20 p.m.—Market Report.
- 7.55 p.m.—"Son Song" Corner.
- 7.40 p.m.—Faulding's Scientific Talk.
- 8 p.m.—G.P.O. chimes.
- 8.4 p.m.—Overture, Allan's Mouth Organ Band.
- 8.5 p.m.—Song, Mr. E. Stephenson.
- 9.12 p.m.—Selection, Mrs. A. C. Williams' Mandolin Band.
- 9 p.m.—Song, Miss May McNeil.
- 9.14 p.m.—Cello solo, Mr. G. Goldsworthy.
- 9.22 p.m.—Song, Mrs. J. Illingworth.
- 9.26 p.m.—Song, Mr. H. Baurerchse.
- 9.30 p.m.—Scientific instructional talk.
- 9.40 p.m.—Song, Mr. Eric Stephenson.
- 9.54 p.m.—Selection, Allan's Mouth Organ Band.
- 9 p.m.—G.P.O. chimes.
- 9.1 p.m.—Weather report.
- 9.2 p.m.—Dalgety's wheat report.
- 9.4 p.m.—Song, Miss May McNeil.
- 9.5 p.m.—Selection, Mrs. A. C. Williams' Mandolin Band.
- 9.15 p.m.—Song, Mr. H. Baurerchse.
- 9.28 p.m.—Cello solo, Mr. G. Goldsworthy.
- 9.39 p.m.—Song, Miss J. Illingworth.
- 9.37 p.m.—Pianoforte solo, Mr. Lawrence's organ.
- 9.52 p.m.—Song, Mr. E. Stephenson.
- 9.55 p.m.—Selection, Allan's Mouth Organ Band.
- 9.42 p.m.—Song, Mr. H. Baurerchse.
- 9.45 p.m.—Selection, Mrs. A. C. Williams' Mandolin Band.
- 9.52 p.m.—Song, Miss May McNeil.
- 9.56 p.m.—Cello solo, Mr. G. Goldsworthy.
- 10.0 p.m.—G.P.O. chimes.
- 10.1 p.m.—"Advertiser" news service.
- 10.20 p.m.—From Oshorn Hall, dance music, by Carmichael's Dance Orchestra.
- 11 p.m.—G.P.O. chimes and close down.

# The Best Sets Deserve The Best Parts



"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.



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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 without distorting the natural quality of tone. Each individual transformer is carefully inspected and tested as the factory before being packed, and is guaranteed to be electrically and mechanically perfect. Made in sizes of

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The New  
"Advance"  
CENTRALIGN  
CONDENSER  
0002—12/00035—12/4  
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The new Advance "Centralign" Condenser has been introduced so that no crowding of spacing occurs on any part of the dial reading, and retains most exact separation on the middle of the scale. Constructed in a complete aluminium frame being most rigid, non-corrosive brass plates with a minimum of dielectric hollow shaft designed for multiple mounting and turns either to left or right, insuring the same Centralign tuning. The above features make the Advance "Centralign" true to name, advanced ahead of the times.



## MIDWEST and NEUTRALIZING CONDENSERS

The Advance Midwest Condenser has all the characteristics that have made Advance Condensers so famous. This Midwest has widened non-crowding brass plates supported by minimum of dielectric, and finished with a nicely moulded bakelite knob.

The Neutralizing Condenser of the same construction as above, complete with base, panel, mounting and bakelite knob. Connect readily for neutralising and balancing condenser.

Midwest II Plate—4/6; Neutralizing II plate 4/6

Rheostats  
6, 10, 20 and  
30 ohms—  
3/6



Potentiometers  
200 and  
400 ohms.  
3/6

**Rheostats and Potentiometers**  
This metal shielded air cooled rheostat is of the same quality as all other Advance products. These are of wire contact, and a perfect insulator. All that is desirable in the rheostat is embodied in this unit.

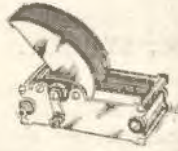
The Potentiometers have the same features and characteristics as the rheostats, made in 100 and 200 ohms.



## OX or UV Porcelain Tube Sockets

The Advance Low Loss Porcelain Tube Socket has been designed for the perfect insulation, and for use with either U.X. or U.V. type of tubes. Spring contacts of phosphor bronze with side wipe and bottom contact, thus insuring the perfection of contacts. The porcelain base insures that perfect insulation that is ideal for radio purposes.

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## Improved Straight Line FREQUENCY CONDENSER

This condenser is an improved Straight Line Frequency, having solid spacing bars with an entirely new means of perfect insulation. Receives all broadcasting stations evenly over the sweep of the dial in exact ratio with the transmitting frequency. Eliminates bunching of stations and increases selectivity.

PRICES:  
00025. 8/6  
00035. 10/  
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**Knife Switch with Arrester**  
A necessary adjunct to all receivers being tested by the Melbourne University, and passed by the Fire Underwriters' Association. It embodies metal and ceramic switch with lightning arrestor.  
Price—2/3



## Lightning Arrester, 2/6

A separate unit when switch with arrester is not required; also passed by the Melbourne University and Fire Underwriters' Association.

- 8.24 p.m.—Duet, Miss Joyce Hadley, soprano, and Mr. Charles Stephens, tenor: "Home to Our Mountains" (Verdi).
- 8.28 p.m.—Congress Hall Band: Selection, "Diplomship" (Cobb).
- 8.35 p.m.—Miss Eileen Boyd, contralto: "Less Than the Dust" (Frieden).
- 8.41 p.m.—Congress Hall Band: Selection, "Gems from the Great Masters."
- 8.57 p.m.—Duet, Miss Joyce Hadley, soprano, and Mr. Charles Stephens, tenor: "In the Garden of My Heart."
- 9 p.m.—Mr. Gladstone Bell, (cello solo): (a) "La Frierre" (Sourire). (b) "Chanson Villaggio" (Fopper).
- 9.10 p.m.—Win and Windle, English entertainers.
- 9.22 p.m.—Congress Hall Band: (a) Euphonium solo, "If with all your Hearts" (Mendelssohn), with Band accompaniment, Esp. E.M. Stephens. (b) Grand chorus, "Worthy is the Lamb."
- 9.35 p.m.—Miss Eileen Boyd, contralto: (a) "Summer Dreams" (Wood). (b) "The I Wake" (Frieden).
- 9.42 p.m.—Broadcast from the Lyceum Theatre, Sydney: Orchestral Items.
- 9.52 p.m.—From the Studio: Miss Joyce Hadley, soprano: "Little Grey Dove" (Suzs-Schirmer). 9.55 p.m.—Congress Hall Band: March, "Menu of Faith" (Docherill).
- 10 p.m.—Mr. Charles Stephens, tenor: "Ave Maria" (Kahn).
- 10.5 p.m.—Mr. Gladstone Bell: "Cello solo, "Kiss Me" (Broch).
- 10.15 p.m.—Miss Joyce Hadley, soprano: "Farewell our pretty little Table" (Massenet).
- 10.20 p.m.—Mr. Charles Stephens, tenor: Aria from "The Girl of the Golden West" (Puccini).
- 10.22 p.m.—Broadcast from the Lyceum Theatre, Sydney: Orchestral Items.
- 10.32 p.m.—From the Studio: Win and Windle, English entertainers.
- 10.42 p.m.—Broadcast from "The Westworth Hotel, Sydney: The New Westworth Symphonic Dance Orchestra under the baton of Mr. Frederick Lughton.
- 10.52 p.m.—Late news and announcements.
- 11 p.m.—The Westworth Cafe Dance Orchestra until 11 o'clock.
- 11 p.m.—"The Ben." National Anthem. Close down.

## 2BL, SYDNEY.

### Thursday.

- 12 noon—G.P.O. Clock and Chimes.
- 11.1 p.m.—Special Ocean Forecast and Weather Report.
- 12.3 p.m.—Musical Programmes from the Studio.
- 12.13 p.m.—Information—Mail and Shipping and Movements of Important Ships.
- 12.16 p.m.—Sydney Stock Exchange Cella.
- 12.18 p.m.—Boats in Call by Wireless.
- 12.20 p.m.—Fruit Market Report.
- 12.21 p.m.—Vegetable Market Report.
- 12.22 p.m.—London Metal Market Report.
- 12.24 p.m.—Dairy and Farm Produce Market Report.
- 12.27 p.m.—Reading Resumé.
- 12.50 p.m.—G.P.O. Clock and Chimes.
- 12.31 p.m.—Musical Programmes from the Studio.
- 12.40 p.m.—Sporting Information ("Sun").
- 12.45 p.m.—Hilber's Instrumental Quartette: Direction, Carl Castling.
- 1.00 p.m.—G.P.O. Clock and Chimes.
- 1.31 p.m.—News from the "Sun."
- 1.40 p.m.—Musical Programmes from the Studio.
- 1.50 p.m.—News from the "Sun."
- 2.0 p.m.—G.P.O. Clock and Chimes.
- 2.05 p.m.—Reading Resumé.
- 2.09 p.m.—Social News—Replies to correspondents by Mrs. Jordan. Talk by Mrs. Jordan on "Benedictions."
- 2.2 p.m.—G.P.O. Clock and Chimes.
- 2.2 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.—News from the "Sun."
- 3.40 p.m.—Musical Programme from the Studio.
- 3.55 p.m.—Country Women's Section.
- 4.0 p.m.—G.P.O. Clock and Chimes.
- 4.1 p.m.—Musical Programmes from the Studio.
- 4.15 p.m.—Serial Story.
- 4.30 p.m.—G.P.O. Clock and Chimes.
- 4.35 p.m.—Musical Programme from the Studio.
- 4.41 p.m.—News from the "Sun."
- 4.50 p.m.—Reading Resumé.
- 4.52 p.m.—Producers' Distributing Society's Fruit and Vegetable Market Report.
- 4.54 p.m.—Resumé of Night's Programme.
- 4.56 p.m.—Announcements.
- 4.58 p.m.—Special Ocean Forecast.
- 5.0 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.

- 5.50 p.m.—G.P.O. Clock and Chimes: Australian Mercantile Land and Finance Co's Report: Weather Report and Forecast by Committee of Government Meteorological and Producers' Distributing Society's Fruit and Vegetable Market Report: Stock Exchange Reports: Grain and Fodder Report ("Sun"). Daily Proofs Report from the "Sun."
- 7.15 p.m.—Country News from the "Sun."
- 7.30 p.m.—Talk on "Sydney University—73 years of progress," by Mr. Rupert Markham.
- 7.35 p.m.—Talk by Miss Hilda Marako Barnes.
- 7.39 p.m.—G.P.O. Clock and Chimes: Broadcasters' Topical Chorus.
- 7.53 p.m.—The Abad Duo (Steel Guitars).
- 8.10 p.m.—Mr. Raymond Beatty (Bass).
- 8.15 p.m.—Mr. Phil Mountain (Comedian).
- 8.21 p.m.—Miss Edna Lietzer (Contralto).
- 8.31 p.m.—Mr. Eric Harrison (Light Comedian Monologist).
- 8.35 p.m.—Talk on Basing by Broadcasters' Advisory Experts.
- 8.58 p.m.—Miss Millie Hughes (Soprano).
- 9.0 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.
- 9.5 p.m.—Broadcasters' Trio.
- 9.15 p.m.—Mr. Harry Avondale (Songs at the Piano).
- 9.22 p.m.—Duet: Miss Millie Hughes and Mr. Raymond Beatty.
- 9.28 p.m.—The Abad Duo.
- 9.38 p.m.—Mr. Raymond Beatty.
- 9.40 p.m.—Mr. Phil Mountain.
- 9.47 p.m.—Miss Edna Lietzer.
- 9.54 p.m.—Mr. Eric Harrison.
- 10.1 p.m.—Miss Millie Hughes.
- 10.5 p.m.—Mr. Harry Avondale.
- 10.15 p.m.—Comedian—His Glorious Chorus broadcast from the Ballroom of the Bondi Casino. During the intervals between dances, News Reprint by courtesy of the "Sun" Newspapers will be broadcast.
- 11.0 p.m.—G.P.O. Clock and Chimes: National Anthem.

## 3LO, MELBOURNE.

### Thursday.

- 12 noon—Time Signal, British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; "Argus" and "Herald" News Service.
- 12.15 p.m.—Under the auspices of the Theatre Goers and Community Singers' Association, Community Singing, under the direction of Mr. J. Alexander Brown, transmitted from THE AUDITORIUM, Collins Street. A feature will be made of the new Australian National Anthem, Australia, O Thou Favored Isle.
- 1.45 p.m.—Stock Exchange Information; Weather.

- 2.0 p.m.—Close Down.
- AFTERNOON SESSION.
- 3.0 p.m.—STUDIO ORCHESTRA: "Hungarian Rhapsody, No. 2" (Brahms).
- 3.10 p.m.—"THE ATTRACTIONS" present their Radio Revue.
- AIRY NOTHING: The COMPANY say BULLO to you. CYRIL NORTHCOTE will certainly join for a moment.
- IRA VANDA and GUS DAWSON decide to get married. A Playette, "A BIT OF BOTH," by Ira Vanda, Gus Dawson and Cyril Northcoote, DIEDRAL DESMOND and CYRIL NORTHCOTE exchange views.
- A FINAL by IRA VANDA and Company.
- 3.30 p.m.—A. G. SPRY, Comedian: "An Egg, Some Ham and an Onion." "Shady." "Jenny."
- 3.40 p.m.—STUDIO ORCHESTRA: "Lieds de Lammereuse" (Debussy).
- 3.50 p.m.—"THE ATTRACTIONS" present their Playette, "Parrot and a Piano."
- 3.57 p.m.—STUDIO ORCHESTRA: "Norwegian Suite" (Ludwig Schytte).
- 4.5 p.m.—LEE WHITE and CLAY SMITH: "Never let the Statue See How You Feel." "Our Child." "The Isle of Bye and Bye."
- 4.15 p.m.—MISS FRANCES FRASER: "June Autumn and the Beatles."
- 4.25 p.m.—"Herald" News Service: Stock Exchange Information: Accidents for Monsoon Valley Races, Saturday, 25th May.
- 4.45 p.m.—EVANSON, transmitted from St. Paul's Cathedral.
- 5.30 p.m.—Close Down.
- Results of the Executive Staff Club races will be given at intervals during the afternoon.

### EVENING SESSION.

- Acocompanist . . . . . ELSIE BRADSHAW
- 7.40 p.m.—"GILLIE AND KEATS": Arrives to letters and birthday greetings.
- 7.55 p.m.—JESSIE SMITH, Contralto: "Baby O Mine" (deasi-Smith). "Daddy Snowflake."
- 8.05 p.m.—"The King's Birthday" (Crittenden).
- 8.2 p.m.—MARY GIMREAF: "Poems." "The Star." "The King's Birthday." "Story for the Littlest One: 'The Three Henrys.'"
- 8.12 p.m.—MR. A. R. McPHAIL will tell you about "Community Life of the New Healdens." "The King's Birthday."
- 8.25 p.m.—Market Reports by the Victorian Producers' Co-operating Co., Ltd., Newmarket Sheep Sale, Poultry, Grain, Hay, Straw, Linn, Dairy Produce, Potatoes and Onions.
- 8.5 p.m.—Market Reports of Fruit by the Victorian Fruitgrowers' Association, compiled by "The Fruit World," exclusive to 3LO.

### NIGHT SESSION

- Acocompanist . . . . . AGNES FORTUNE
- Announcer . . . . . MATRICE DIDDLEY
- 7.15 p.m.—Under the auspices of the Royal Victorian Institute of Architects, MR. GEORGE H. ALCOPE, F.R.I.B.A., F.R.V.I.A., will speak on: "The Home."
- 7.20 p.m.—MR. A. W. JACKSON will speak on "Gold."
- 7.35 p.m.—JAMES HUGHES, now appearing in the part of Sergeant Malone, in "ROSE MARY," at His Majesty's Theatre, will speak from his dressing room, by permission of J. C. Williamson, Ltd.
- 7.50 p.m.—MR. ROD McGREGOR, will speak on the Prospect of Saturday's Football.
- 8.15 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS: "Alabaster Sings." "Just a Bird's Eye View." "Pearl of Malabar."
- 8.25 p.m.—LEE WHITE and CLAY SMITH: "It's All the Same to Me."
- 8.29 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS: "Dreams of Love and You" (Taylor). "Am I Wasting My Time" (Buse). "Rose Coloured Glasses" (Reiger).

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- 8.50 p.m.—JOE BRENNAN, Eccentric Song, "Nerves."
- 8.45 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "It's a Wonderful World After All" (Davies), "My Dream of the Big Parade" (Dubin), "The Prisoner's Sweetheart" (Walsh).
- 8.43 p.m.—FRANK AND FRANCIS LUTZ, Hawaiian Entertainers, Duet, "Iwi, Au Is De."
- 8.37 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "My Pal Jerry" (Rosa), "How Could Red Riding Hood" (Randolph), "Somebody's Lonely" (Davies).
- 9.1 p.m.—A. G. SPREY, Comedian, "Father's Name Was Brown."
- 8.11 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "In a Little Spanish Town" (Young), "Sit on the Keys" (Piano Solo), (Confess), "Festive" (Green).
- 8.21 p.m.—Sporting Notes by Olympus.
- 8.21 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "At Peace With the World" (Berth), "Meadow Lark" (Fiorillo), "Talking to the Moon" (Basketette).
- 8.41 p.m.—MARIE BRENNER, Soprano, "Villanelle" (Eva Del Aquila).
- 8.45 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "Let's Grow Old Together" (Nelson), "While We Lingered Till Dawn" (Schuster), "It Made You Happy" (Donaldson).
- 8.53 p.m.—ARGENT News Service, British Official Wireless News from Rugby; Meteorological Information; Announcements.
- 10.5 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "She's Everybody's Sweetheart" (Rosa), "I'd Climb to the Highest Mountain" (Brown), "She's in Back Again With His Boom, Boom, Boom."
- 10.15 p.m.—LEE WHITE AND CLAY SMITH, "Here Comes the Bride."
- 10.16 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "Do the Black Bottom With Me" (Meyer), "Say That You Love Me" (Niels), "To Night's My Night With Baby" (Meyer).
- 10.29 p.m.—IDA NEWTON, Song, "You've Got to Be Cute."
- 10.40 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "The Savoy Medley of Medleys" (Arr. Somers), "The Auld Lang" (In Frazzate), "Berie, I Love You" (Goodman).
- 10.53 p.m.—FRANK AND FRANCIS LUTZ, Hawaiian Entertainers, Song, "Hawaii Across the Sea."
- 10.54 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "No Foolin'" (Bueh), "Whisper Sil" (Bryan).
- 11.0 p.m.—OUR GREAT THUGHT, "The saddest failures in life are those that come from the not putting forth of power and will to succeed." (Whipple).
- 11.1 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "Sing, Katie, But Leave The Piano Alone" (Crosby), "Where Did You Get Those Kys" (Donaldson), "Paradise Alley" (Archer).
- 11.11 p.m.—A. G. SPREY, Comedian, "Advertisements."
- 11.16 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "While the Years Go Drifting By" (Kahn), "I Can't Forget You" (Morton-Corick), "Laughing at the Jokers" (Wendish).
- 11.25 p.m.—MARIE BRENNER, Soprano, "Siesta" (Morris Beesley).
- 11.26 p.m.—JOE ARONSON AND HIS SYM-PHONISTS, "Bye, Bye, Blackbird" (Dixon), "We Don't Want to Get Married" (Starr), "Perfume of the Past" (Mayson), "Thinking of You" (Ash).
- 11.46 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Thursday.

### MORNING SESSION.

- 11.0 a.m.—Selections on the Brunswick Peninsula.
- 11.30 p.m.—British Official Wireless Press received from Rugby Super Wireless Station, England. Express train information; "Age" News Bulletin, exclusive to 5.12; 12 noon—Time Signal (Chime from G.P.O.); First Weather Forecast; Events of the Day, Studio Barometer and Outdoor Thermometer Readings.
- 12.5 p.m.—Musical Selections from the Studio, 12.50 p.m.—Stock Exchange News; Market Reports.
- 10.40 p.m.—Musical Selections from the Studio.
- 12.55 p.m.—Shipping Notes; Mail Notices.
- 1.0 p.m.—Close Down.

### AFTERNOON SESSION.

- 2.30 p.m.—Studio Orchestra, "Suite From the South" (Niels), "2.45 p.m.—Miss Marie Owen, Soprano, "O My Garden" (McBrien), "The Heart Worships" (Gustav Holst), 2.53 p.m.—Studio Orchestra, "Suite Characteristic" (Fring), 2.55 p.m.—Miss Marie Owen, Soprano, "Arabian Song" (Vogel), 3.15 p.m.—Studio Orchestra, "Andante from 7th Violin Concerto" (De Beriot), 3.27 p.m.—Miss Marie Owen, Soprano, "Annie Laurie" (Lisa Lehmann), 3.30 p.m.—Studio Orchestra, "A Little Song" (Finlay), 3.40 p.m.—Mr. R. Palfrey, Violin, "Maire Katie" (Hobbs), 3.44 p.m.—Studio Orchestra, "Extracts" (A. Von Floitz), "Hymns" (A. Von Floitz), 3.54 p.m.—Miss Marie Owen and Mr. James Scott, Vocal Duet, "Fairies" (Eustace Martin), 4.0 p.m.—Time Signal (Chime from G.P.O.); Second Weather Forecast; Studio Orchestra, "Suite Melodica" (Fring), 4.15 p.m.—Mr. James Scott, Bass, "The Company Sergeant Major" (Sanderson), "Requiem" (Sidney Homer), 4.28 p.m.—Studio Orchestra, "A Gretta Green" (Fletcher), 4.35 p.m.—Mr. James Scott, Bass, "The Two Graduates" (Schumann), 4.37 p.m.—Studio Orchestra, "Selections," 4.55 p.m.—Evening Announcement Guide, 5.0 p.m.—Time Signal (Chime from G.P.O.); Close Down.

### EARLY EVENING SESSION.

- 6.45 p.m.—Children's Corrig: Uncle Mac.

### EVENING SESSION.

- 7.45 p.m.—British Official Wireless Press; Studio Barometer Readings; Special Dig and Call Report, supplied by courtesy of Messrs. McPhail Anderson and Co., Pty., Ltd.; Fair Sheet and Castle Report, supplied by Messrs. John McNamee and Co., Pty., Ltd., 8.0 p.m.—Time Signal (Chime from G.P.O.); The Ardian Train, "L'Antenne" (Lecore), "Bohro" (Moszkowski), "Sunbeam and Shadows" (Kelsler), "Miss Violet Wood, Pianiste; Miss Beatrice Phillips, Violiniste, and Mr. John Farrell, Cellist), 8.15 p.m.—Mr. Howard Kane, Baritone, "I Will Not Grieve" (Sehann), "Dedication" (Fring), 8.22 p.m.—One Act Play; Scene from "The School for Scandal," Sir Peter Teagle ... Mr. Jas. C. Clarke Lady Towle ... Miss Lena Toomey 8.37 p.m.—Miss Lenora Cook, Soprano, "A Heart That's True" (Roby), "The Night Wind" (Farley), 8.45 p.m.—Miss Beatrice Phillips, Violiniste, "Gavotte" (Bach), "Glean" (Correll), "Siciliana" (Perotone), 8.52 p.m.—Mr. Leslie Jeschott, Tenor, "Vale" (Hussell), "I Know of Two Bright Eyes" (Chitazo),

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Extra large size, type Super Service, 42 volt	28/6

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- 10 p.m.—The Anlian Trio, "Avalanche" (Melbourne); "Avalanche" (Sturiale Bennett); "Alegretto" (Haff).
- 11 p.m.—Mr. Howard King, Baritone, "No. 12 Rigor" (Cavalina from "Ebreo"); "Cantata Zisario Sesti," from "La Boheme" (Puccini).
- 9.23 p.m.—Dr. Geo. Farnes Philpotts, Pres. of The Food Education Society of Victoria, and Editor of "The National Health Magazine," will speak on "The Nutrition Game."
- 10 p.m.—Miss Lennox Scott, Soprano, "Sylvia's" (London); "Tina" (Rasbach).
- 9.45 p.m.—Mr. John Farrell, O'Flah, "Mick" (D'Amore); "Mick" (Squire).
- 9.35 p.m.—Mr. Leslie Jephcott, Tenor, "The You Alone" (Hobell); "Little Mother of Mine" (Barbich); "At the Piano, Miss Violet Wood."
- 10.4 p.m.—Time Signal Chime from G.P.O.; Stella Symonette, Recitation; "Age" News Bulletin, oration to I.A.R.; Jephcott's Ballroom Orchestra.
- 11.0 p.m.—Time Signal Chime from G.P.O.; Close Down.

## 4QG, BRISBANE.

### Thursday.

#### MIDDAY SESSION.

- 1.0 p.m.—Market Reports; Weather Information; "The Daily Mail" and "The Daily Standard" News.
- 1.10 p.m.—From Hotel Carlisle: Lunch Music played by Hotel Carlton Symphony Orchestra.
- 1.55 p.m.—From the Observatory; Standard Time Signal.
- 2.0 p.m.—Close Down.

#### AFTERNOON SESSION.

- 2.30 p.m.—A PROGRAMME OF MUSIC FROM THE STUDIO: Duo Art Selection, "Spring Song" (Mendelssohn); Anlian Vocalion selections: (a) fore-trill, "The Two of Us" (Phillips); Dan Parker and his band, (b) song, "Paradise for Two" (Stinson); Miss Gladys Moncrief and Mr. Robert Chisholm; Duo Art selection, "Serenade" (Schubert); Anlian Vocalion selections: (a) mandolin solo, "Serenade" (Pisone); Mario de Pina, (b) quartette, "Madley of Plantation Song" (Foster); Anlian Male Quartette; Duo Art selection, "I Don't Want to Forget" (Knytel); Anlian Vocalion selections: (a) overture, "The Barber of Seville" (Rossini); Metropolitan Orchestra (b) contralto solo, "The Lord Chord" (Follett); Miss Ethel Hook; Duo Art selection, "If I Only Had You."
- 4.15 p.m.—Telegraph News.
- 4.35 p.m.—Close Down.

#### EARLY EVENING SESSION.

- 4.0 p.m.—"Daily Standard" News; Amusements.
- 5.30 p.m.—The Children's Session: Stories by "The Sandman."
- 5.0 p.m.—Market Reports; Stock Reports.
- 5.25 p.m.—Weather News; Grammatical.
- 5.45 p.m.—Standard Time Signal.
- 7.45 p.m.—Lectures: "A Talk on Books," by Mr. W. A. Bruden (McLeod's).

#### NIGHT SESSION.

##### CHORAL RECITAL.

- The Eve portion of to-night's programme will comprise a choral recital by the City Tabernacle Choir (conductor, Mr. Sydney May), and will be relayed from the City Baptist Tabernacle.
- 9.0 p.m.—From the City Tabernacle: Chorus, "and Thou Art Great" (Bach); song, "Had You Not Known" (Deane); Mr. Eric King; chorus, "Babylon, The Children Keep" (Sullivan); song, "The Living God" (O'Hara); Mr. Frank Green; chorus, "Then Round About the Starry Throne" (Handel); song, "May Dew" (Bennett); Miss Eva Bowen; quartette, "In Memoriam" (Buck); Messrs. W. Donald, F. McGuire, E. Harper, and F. Turner; chorus, "As It Began to Dawn" (Martini); song, "Comrade of Mine" (James); Mr. Edgar Mansfield; chorus, "As

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the Heart Parts" (Menckelsohn); song, "All  
A Merry May Time" (Ronald); Miss H.  
Curnow; Chorus, "By Babylon's Wave"  
(Gounod); song, "The Desert" (Emanuel),  
Mr. Ernest Harper; chorus, "O Father  
Whose Almighty Power" (Handel); hymn,  
"Cwm Rhodri" (Hague); songs, "Slava  
Song" (Del Rigo), Miss Etta Young; chorus,  
"Gloria" (Mozart).

9.20 p.m.—From the Band Room: An im-  
promptu programme of music by the Bris-  
bane Municipal Concert Band (conductor,  
Mr. E. Jackson).

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

## 5CL, ADELAIDE.

Thursday.

### MORNING SESSION.

12 noon.—G.P.O. chimes.

12.1 p.m.—Recitals on the "New Reproducing  
Sonora" and the "Autotone Reproducer."  
12.30 p.m.—"Advertiser" news service.

1.00 p.m.—Market reports.

1 p.m.—G.P.O. chimes.

1.1 p.m.—Musical programme continued.

2 p.m.—G.P.O. chimes and close down.

### AFTERNOON SESSION.

5 p.m.—G.P.O. chimes.

5.1 p.m.—Relay from the Maple Leaf Cafe—  
Orchestral selections.

5.35 p.m.—From the Studio—Recitals on the  
"New Reproducing Sonora" and the "Auto-  
tone Reproducer."

4 p.m.—G.P.O. chimes.

4.1 p.m.—Relay from the Arcadia Cafe—Or-  
chestral selections.

4.55 p.m.—Station announcements.

5 p.m.—G.P.O. chimes and close down.

### EVENING SESSION.

5 p.m.—G.P.O. chimes.

6.1 p.m.—Dinner music by the Covent Gar-  
den Restaurant Orchestra.

6.45 p.m.—Bedtime stories.

7.30 p.m.—Market reports.

7.40 p.m.—Talk by Mr. A. M. Whittenbury.

8 p.m.—G.P.O. chimes.

8.1 p.m.—5CL Orchestra.

8.10 p.m.—Song, Miss Elsie Woolley.

8.15 p.m.—Saxophone solo, Master Ted  
Ninnus.

8.19 p.m.—Song, Mr. R. Moss.

8.28 p.m.—5CL Orchestra.

8.30 p.m.—Motor talk by "Accelerator."

8.48 p.m.—Song, Mr. Milton Letcombe.

8.49 p.m.—5CL Orchestra.

9 p.m.—G.P.O. chimes.

9.1 p.m.—Weather report.

9.3 p.m.—Daleky's wheat report.

9.4 p.m.—Song, Miss M. W. Runga.

9.5 p.m.—Song, Miss M. Culver.

9.15 p.m.—5CL Orchestra.

9.20 p.m.—Song, Miss Elsie Woolley.

9.30 p.m.—Violin and pianoforte duet by Miss  
Liette Foglia and Mr. Tom King.

9.45 p.m.—Song, Mr. R. Moss.

9.59 p.m.—5CL Orchestra.

10 p.m.—G.P.O. chimes.

10.1 p.m.—"Advertiser" news service.

10.15 p.m.—Song, Mr. Milton Letcombe.

10.19 p.m.—Comedy, Mr. W. Runga.

10.25 p.m.—5CL Orchestra.

10.30 p.m.—Song, Miss Elsie Woolley.

10.40 p.m.—Xylophone solo, Mr. Ted Ninnus.

10.45 p.m.—Song, Miss M. Culver.

10.49 p.m.—5CL Orchestra.

11 p.m.—G.P.O. chimes and close down.

12.5 p.m.—Studio music.

12.10 p.m.—Summary of "Sydney Morning  
Herald" news service and cabbie.  
Rugby Wireles News.

12.25 p.m.—A Talk on Home Cooking and Re-  
cipes by Miss Ruth Farns.

12.40 p.m.—Miss Ethel Muller, contralto;  
"For Ever and for Ever" (Toots).

12.44 p.m.—Studio music.

1 p.m.—"Big Ben." Weather intelligence.

1.2 p.m.—"Evening News" midday news ser-  
vice.

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 school child-  
ren.

1.40 p.m.—Studio music.

1.45 p.m.—Miss Ethel Muller, contralto;  
"Carm Mio Ben" (Giordani).

1.50 p.m.—Studio music.

2 p.m.—"Big Ben." Close down.

### AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.

3.6 p.m.—Mr. Herbert Snelling, baritone.

3.10 p.m.—Pianoforte solo.

3.25 p.m.—Miss Annie Payne, mezzo;  
"Calla Herlin" (Scott).

3.30 p.m.—Marching music for the school child-  
ren.

3.40 p.m.—From Farmer's Oak Hall:  
Miss Jeanette Rooney, contralto;  
"The Birds go North again" (Willby).

3.45 p.m.—A Talk from the Studio:  
Fadine Fry on "Anecdotes of Animals."

4 p.m.—From Farmer's Tea Rooms:  
Miss Peria Rutter, soprano;  
"With the Pride of the Garden and Field"  
(Keel).

4.5 p.m.—Miss Annie Payne, mezzo;  
"Within a Mile of Edinburgh Toon"  
(Scott).

4.10 p.m.—Studio music.

4.15 p.m.—Mr. Herbert Snelling, baritone.

4.20 p.m.—From Farmer's Tea Rooms:  
Miss Jeanette Rooney, contralto;  
"So Little Time" (Lohr).

4.25 p.m.—Studio music.

4.40 p.m.—From Farmer's Tea Rooms:  
Miss Peria Rutter, soprano;  
"Fishes" (Rechenbauer).

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 Chinese of 2FC.

5.50 p.m.—"The Hello Man" talks to the child-  
ren.

6.30 p.m.—A Serial Story.

6.40 p.m.—Dinner music.

7 p.m.—"Big Ben." Last minute sporting in-  
formation by the RFC Racing Commissioner.

7.10 p.m.—Daleky's Market Reports (wheat,  
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.—Announcements.

7.50 p.m.—Studio items.

8 p.m.—Broadcast from the Theatre Royal,  
Sydney: "The First Act of the Musical  
Comedy, "FRASQUITA," featuring Miss  
Marie Burke and Mr. Herbert Brown.  
Scene: "The Night Cabaret."

MUSICAL NUMBERS:  
Opening Chorus, Ian Iredale, Aldwin Mar-  
tin, Frank Leighton and Pull Chorus.  
"You will love me, no doubt," Thelma Bur-  
ness and Herbert Brown.  
"The Gipsies' Chorus," Full Chorus.  
"Thruva, Thruva," Marie Burke.  
"Tell me what loving is," Marie Burke.  
"Somewhere in Snokeland," Marie Burke  
and Chorus.  
"Valse Espagnol," Marie Burke, Marie  
Eaton, and Chorus.  
"Maiden, Maiden, If You Want a Man,"  
Thelma Burness, R. Barrett-Leonard,  
Cedric Kellaway.  
Finale, Marie Burke, Herbert Brown.

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## Friday, May 27 2FC, SYDNEY.

### MIDDAY SESSION.

12 noon—"Big Ben" and programme an-  
nouncements.

12.2 p.m.—Stock Exchange, first call.

12.5 p.m.—Official weather forecast, rainfall,  
temperatures, astronomical memoranda, ship-  
ping intelligence, mail services.

- 9.1 p.m.—You the Student: A Talk on Bridge to Mr. Graham Howl;
- 9.15 p.m.—Taking the Trains;
- 9.17 p.m.—Mr. Clyde Thorne, violinist;
- 9.20 p.m.—"Glimmer Melody" (Kreutzer);
- 9.20 p.m.—Mr. Alfred Cunningham, baritone;
- 9.20 p.m.—"Don Juan" Serenade" (Tschakowsky);
- 9.21 p.m.—"I Love You" (Hahn);
- 9.22 p.m.—Miss Alice Brown, contralto;
- 9.23 p.m.—Mr. Clyde Thorne, violinist;
- 9.24 p.m.—"Hudson Swan's Dance" (Steinlich);
- 9.26 p.m.—Mr. Charles Lawrence, concertina;
- 9.27 p.m.—"I Love You" (Hahn);
- 9.28 p.m.—"March on Education" (Gill) (Wagner);
- 9.30 p.m.—Broadcast from the Wentworth Hotel, Sydney: Dance music;
- 9.32 p.m.—From the Studio;
- 9.33 p.m.—Miss Alice Brown, contralto;
- 9.34 p.m.—Mr. Clyde Thorne, violinist;
- 9.35 p.m.—"L'Amour" (D'Angelo);
- 9.36 p.m.—"Big Ben";
- 9.37 p.m.—Mr. Alfred Cunningham, baritone;
- 9.38 p.m.—"Aspena from Love's Richness" (Puccini);
- 9.41 p.m.—Mr. Charles Lawrence, concertina;
- 9.41 p.m.—"Lull";
- 9.42 p.m.—"Impressions";
- 9.43 p.m.—Miss Alice Brown, contralto;
- 9.44 p.m.—Wentworth Cafe Dance Orchestra;
- 9.44 p.m.—Mr. Alfred Cunningham, baritone;
- 9.45 p.m.—"Woman's Parting";
- 9.46 p.m.—"Dora's Madrigal" (Harry);
- 9.48 p.m.—Wentworth Cafe Dance Orchestra;
- 9.49 p.m.—Celebrity Records;
- 9.50 p.m.—Announcements;
- 9.52 p.m.—Wentworth Cafe Dance Orchestra;
- 9.53 p.m.—"Big Ben";
- 9.54 p.m.—National Anthem;
- 9.55 p.m.—Class done.

**2GB, SYDNEY**

**Friday**

- 8 a.m.—Music;
- 9.2 a.m.—Cheerio Talk;
- 9.15 a.m.—Music;
- 9.25 a.m.—Psychological Class;
- 9.40 a.m.—Music;
- 9.45 p.m.—Health and Diet;
- 10 a.m.—Class done.

**AFTERNOON SESSION.**

- 2.30 p.m.—Music;
- 2.37 p.m.—Mrs. Wood;
- 2.42 p.m.—Music;
- 2.47 p.m.—Talk;
- 2.52 p.m.—Music;
- 2.59 p.m.—Class done.

**EVENING SESSION.**

- 8.30 p.m.—Children's Stories;
- 8.35 p.m.—Music;
- 8.40 p.m.—Talk;
- 8.45 p.m.—Music;
- 8.50 p.m.—Topical Talk;
- 8.55 p.m.—Music;
- 9.00 p.m.—Talk to Men;
- 9.05 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK;
- 9.10 p.m.—Address by Professor Frank Wood;
- 9.15 p.m.—Songs;
- 9.20 p.m.—Music;
- 9.25 p.m.—Songs for piano; MISS ADA BROOK;
- 9.30 p.m.—Instrumental Trio: MONICA HORDER, MURIELLE LANG, ADA BROOK;
- 9.35 p.m.—Topical Talk;
- 9.40 p.m.—Violin solo by DAN SCULLY;
- 9.45 p.m.—Music;
- 9.50 p.m.—Songs;
- 9.55 p.m.—Music;
- 10.00 p.m.—Instrumental Quartet: DAN SCULLY, MONICA HORDER, MURIELLE LANG, ADA BROOK;
- 9.55 p.m.—Cheerio Talk;
- 10 p.m.—Class done.

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## Proverbs and Puddings

Nearly everyone has stored up a stock of asinine sayings which Noah's mother sang to him in his cradle—such mossy untruths as "The proof of the pudding is the eating."

You know, and I know, that the proof of the pudding is not the eating of it, but what follows an hour or so later! Yet we go on using worn out counterfeit coins of speech, so thin and so shiny that even if they were genuine the Bank of Commensense would reject them on sight.

The fact is that we are tied up in mental knots by stupid old habits and haven't even the courage to try to think and to speak originally.

I am absolutely convinced that if we understood mookey language we should hear one baloon saying to another as they swing on trees: "It's a long tail that has no ending."

As a matter of decency I must confess that this outburst on Proverbs and Puddings is being written because I started an essay on Philco batteries with the pudding quotation, and was proud of it—until my wife saw it!

Speaking intelligently, I mean that the recent record sales of Philco rechargeable batteries showed exactly what Australian set owners think of the Philco. If additional stores had not been promptly ordered by cable, I shudder to think of the tragedy that might have befallen some unlucky radio enthusiasts—they might have been forced to buy a "just as good!"

No matter how much money is spent in boosting a bad battery, the time always comes when that battery boom busts badly.

When an expensive high-class product like the Philco has a steadily growing sale year after year, and its best advertisers are the men who use it, then there must be magnificent quality and superb value.

Actually, it costs less to buy a Philco radio battery on easy terms from New System Telephones Pty. Ltd., 280 Castlereagh Street, than to pick up a cheap dry battery and later toss it out in disgust. Many hundreds of orders for Philco in a single month show crystal clearly that you can't fool all the people all the time—

There I am again! Another of those old sayings!

## 3LO, MELBOURNE.

Friday.

### MIDDAY SESSION.

Accompanist ..... AGNES FORTUNE  
Announcer ..... ALFRED ANDREW  
12 noon.—Time Signal, British official wireless news from Rugby.  
Reuters and The Australian Press Association Cables. "Argus" and "Herald" news services.

12.30 p.m.—EDOUARD LAMBERT, Violin:  
"Adagio" (Bruch).  
"Chaconne" (Vivaldi).  
12.30 p.m.—STUDIO ORCHESTRA:  
Overture, "Morning, Noon and Night" (Satie).

12.40 p.m.—Stock Exchange information.  
12.50 p.m.—MARIE BREMNER, Soprano:  
"The Second Minuet" (Maurice Helyar).  
"Hend Low Thine Ear" (Maurice Beley).  
12.57 p.m.—STATION TRIOS:  
"Santuzza" (Tschickowetz).

1.7 p.m.—STUDIO ORCHESTRA:  
Valse, "Idylle—Romaged" (Schmid).  
1.14 p.m.—Meteorological information.  
1.20 p.m.—LEW WHITE AND CLAY SMITH:  
"Hello, Prospectivity."  
"Why Don't You Smile."  
"Mama Loves Papa."

1.30 p.m.—STUDIO ORCHESTRA:  
"The Tree of the Trees" (Hadley).  
1.37 p.m.—EDOUARD LAMBERT, Violin:  
"Londonderry Air" (Kreutzer).  
1.44 p.m.—MARIE BREMNER, Soprano:  
"To Electra" (Brunswick Hart).  
"A Persian Song of Spring" (Mona A. Burley).

1.50 p.m.—STUDIO ORCHESTRA:  
Valse Intermezzi: "Ballocca Chatter" (G. Geki Albi).  
2 p.m.—Description of the Welter Handicap, 4½ furlongs, Ballarat Miners' Turf Club Races, by "Muskiet," of the "Sporting Globe."

2.30 p.m.—Description of Handicap Pony Race, 4½ furlongs, Ballarat Miners' Turf Club Races, by "Muskiet," of the "Sporting Globe."  
2.35 p.m.—Close down.  
3 p.m.—Description of the Hager Handicap, 1 mile, Ballarat Miners' Turf Club Races, by "Muskiet," of the "Sporting Globe."

3.10 p.m.—STUDIO ORCHESTRA:  
"Hungarian Dances, No. 5" (Brahms).  
3.10 p.m.—"AU FAIT":  
"Fashion Talk."

3.25 p.m.—GRACE AND KEATS:  
"Pieretta, Pierrot and a Piano."  
3.30 p.m.—Description of the Novice Handicap, 4½ furlongs, Ballarat Miners' Turf Club Races, by "Muskiet," of the "Sporting Globe."

3.35 p.m.—STUDIO ORCHESTRA:  
Selection, "Jocunda" (Kobyl).  
3.42 p.m.—FRANK AND FRANCIS LUIZ, Hawaiian Entertainers:  
Duet, "Lula Girl."  
Song, "Bygone."

3.50 p.m.—STUDIO ORCHESTRA:  
Steel Guitar, "Kawai" (Waltz).  
3.52 p.m.—STUDIO ORCHESTRA:  
"The Conquiste" (Johnstone).  
4 p.m.—Description of the Novelty Pony Race, 4½ furlongs, Ballarat Miners' Turf Club Races, by "Muskiet," of the "Sporting Globe."

4.5 p.m.—JOE BRENNAN, assisted by IDA NEWTON:  
JOE BRENNAN, Eccentric Boy:  
"Solace—Will Have Me."  
IDA NEWTON:  
"I'm not that Kind of a Girl."

4.18 p.m.—STUDIO ORCHESTRA:  
"Zigzags" (Baron).  
4.15 p.m.—MAXWELL CARRW, Comedian:  
"Pinkie."  
"Billet Doux."

4.30 p.m.—STUDIO ORCHESTRA:  
"Don Quixote" (Safrenek).  
4.35 p.m.—Description of the Flying Handicap, 1 furlong, Ballarat Miners' Turf Club Races, by "Muskiet," of the "Sporting Globe."  
4.38 p.m.—MRS. M. GALLAWAY MAHOOD:  
"Art in Modern Life."

4.45 p.m.—"Herald" news service. Stock Exchange information.  
6 p.m.—Close down.

### EVENING SESSION.

Accompanist ..... ELSIE BRADSHAW  
5.40 p.m.—CHILDREN'S HOUR. Answers to Letters and Birthday Greetings.  
5.55 p.m.—A. ARMSTRONG, Accordion, will play two little pieces for the children.

6.5 p.m.—"BILLY HUNNY":  
Has a story for the little ones.  
6.12 p.m.—CAPTAIN D. NALD MACLEAN:  
"The Greatest March of History, and the sack of Panama."

6.22 p.m.—"BILLY HUNNY":  
"Laughwood Talks."  
6.35 p.m.—"Argus" and "Herald" news services.  
Weather synopsis. Shipping movements.  
6.47 p.m.—Stock Exchange information.

6.52 p.m.—Fish market reports by J. R. Barrett Ltd. Rabbit prices.  
6.55 p.m.—River reports.  
6.58 p.m.—Market reports of Fruit, by the Victorian Fruitgrowers Association, compiled by "The Fruit World," exclusive to B.L.O.

Accompanist ..... AGNES FORTUNE  
Announcer ..... MAURICE DUDLEY  
7.15 p.m.—Under the auspices of the Department of Agriculture, MR. R. J. DE FALBOT, Veterinary Officer, will speak on "Bacteriophage Efficiency and its Relation to Stock Breeding."

7.30 p.m.—STUDIO ORCHESTRA:  
Overture, "Post and Pessant" (Suppe).  
7.40 p.m.—LEW JAMES and DODIE WOLFE, Jeuneurs and Jubette.  
"Nobody Loves a Fat Girl."  
"Patter."

7.47 p.m.—TASMA TIERNAN, Cello:  
"Chant Russe" (Lalo).  
7.54 p.m.—EILEEN STARR, Soprano:  
"Si Me Vene" (Habiz).  
"For You Alone" (Gosch).  
8.1 p.m.—COLLINGWOOD CITIZENS BAND:  
Overture, "Rouge et Noir" (Prussell).  
"Sara Noen"

8.15 p.m.—THE FUTURISTS, present their Radio Revue:  
"GOING SOME."  
The Company will start "Going Some." IRA VANDA takes his Company for a trip on a Motor Charabanc.

The Porter ..... G. W. DESMOND.  
The Actress ..... IRA VANDA.  
The Husband ..... CYRIL NORTHCOTE  
Scene ..... The Swan Hotel  
IRA VANDA tells you about her Grandma's Province.

The Company sing a duet.  
8.30 p.m.—STUDIO ORCHESTRA:  
"Rigoleto" (Verdi).  
8.40 p.m.—JOE BRENNAN, assisted by IDA NEWTON:  
Sketch, "Secrets."  
Ida Newton, "It's the Nose."

8.45 p.m.—FRANK AND FRANCIS LUIZ, Hawaiian Entertainers:  
Duet, "Alaha Haha Boy."  
Song, "Oh Plantation."  
Steel Guitar, "Hawaiian Waltz."  
9 p.m.—R. C. J. WILLIAMS, will discuss tomorrow's wrestling.

9.15 p.m.—COLLINGWOOD CITIZENS' BAND:  
Selections, "Gems from Italian Opera" (Rimmer).  
9.25 p.m.—LEW WHITE AND CLAY SMITH:  
"My Darling"  
"Who's Plucking Found Her Gray Hair."  
"Up Came Botsa."

9.35 p.m.—MR. F. K. LOVE:  
"Technical Talk."  
9.42 p.m.—STUDIO ORCHESTRA:  
"Valse Caprice" (Rubenstein).  
9.50 p.m.—EILEEN STARR, Soprano:  
"Aubade" (Koi Divo) (Lalo).  
"Serenade" (Gounod).

9.57 p.m.—"Argus" news service. British Official prices, news from Rugby.  
10.5 p.m.—COLLINGWOOD CITIZENS' BAND:  
"Beethoven's Minuet in G."  
March, "London's Pride" (Moorhouse).

- 10.11 p.m.—MAXWELL CAREW, Comedian.  
"Guss."  
"Old Black Joe."  
10.12 p.m.—STUDIO ORCHESTRA:  
"King March"—Romance and Prelude to  
Act I (Rimsky).  
10.40 p.m.—"CARDIGAN"—MR. H. W.  
WOLFE, Sporting Editor of the "Argus"  
and "Australasian," will speak on Satur-  
day's Race.  
10.45 p.m.—Meteorological Information.  
10.55 p.m.—COLLINGWOOD CITIZENS'  
BAND:  
Waltz, "Blue Danube" (Strauss).  
Festral, "Honey Bunch."  
11 p.m.—OUR GREAT THOUGHT:  
"Whilst thou livest, keep a good tongue  
in thy head"—Shakespeare.  
11.1 p.m.—JOE ARUNSON AND HIS SYN-  
COPATING SYMPHONISTS:  
"Just One More Kiss" (Overton).  
"Just A Bird's Eye View" (Detabinski).  
"A Cup of Coffee, a Sandwich and You"  
(Meyer).  
"Somebody's Lonely" (Davie).  
"Burr Face" (Auld).  
"Ting-A-Ling"—Waltz of the Bulls" (Brett).  
"Marry Lou" (Leyman).  
"The More We are Together" (Campbell).  
"Suffenreby"—Piano Solo (Barr).  
"Let's All Hear Ford" (Leslie).  
"I'm on My Way Home" (Berlin).  
"The Original Blackstova" (Henderson).  
"Hello Alaba" (Baer).  
"Hello, Little Girl of My Dreams" (Birk).  
"Sunnie" (Miller).  
"Be the Sign of a Rose" (Field).  
11.45 p.m.—GOD SAVE THE KING.

### 3AR, MELBOURNE

Friday

#### MORNING SESSION.

- 11.3 a.m.—Selections on the Brunswick Pas-  
sage.  
11.35 a.m.—British Official Wireless Press re-  
sponses from Rugby Super Wireless Station,  
England: Express Train Information; "Age"  
News Bulletin, exclusive to 3AR.  
12 noon.—Time Signal Chime from G.P.O.  
Studio Barometer and Outdoor Thermometer  
Readings; First Weather Forecast; Events  
of the Day.  
12.5 p.m.—Musical Selections from the Studio.  
12.55 p.m.—Stock Exchange News.  
1.00 p.m.—Musical Selections from the Studio.  
12.55 p.m.—Shipping Movements; Mail Notes.  
1.0 p.m.—Close Down.

#### AFTERNOON SESSION.

- BALLARAT MINERS' RACE: Results  
after each race, and at half-hourly intervals.  
2.25 p.m.—Studio Orchestra.  
"La La Lucille" (Gershwini).  
2.30 p.m.—Mr. E. Pettifer, Charlton.  
"La Militaire" (Raymond).  
2.45 p.m.—3AR Dance Orchestra.  
"Just a Cottage Small."  
"Poet of Malpas."  
"Kodak Lark."  
3.0 p.m.—Miss Dulce Joseph, Soprano.  
"Def Vieux non Turcho" (Mozart).  
"I Love the Moon" (Henderson).  
3.15 p.m.—Studio Orchestra.  
"Norwegian Dance" (Mati).  
3.25 p.m.—Miss E. Braszley, Flautist.  
"Classe de Tango" (Debussy).  
3.35 p.m.—3AR Dance Orchestra.  
"Dilline and Drowning."  
"Who, He? Ha! Ha! Me Too."  
"My Cat's Doo is Two Kodak."  
3.45 p.m.—Miss Dulce Joseph, Soprano.  
"Dance in Your Song."  
"Dough, How Wings" (Lip Lohmann).  
4.0 p.m.—Time Signal Chime from G.P.O.  
Second Weather Forecast; Studio Orchestra;  
"Selection Gipsy Love" (Leslie).  
4.15 p.m.—Mr. H. Pfeiffer, Violist.  
Roussay from "Frenchiek"—Concerto in  
D Major.  
4.30 p.m.—3AR Dance Orchestra.  
"Hip."  
"A Newcomer From Moscow."  
"I'm Gonna Play a Rose in California."



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4.45 p.m.—Studio Orchestra.  
Selection.  
4.55 p.m.—Evening **AMUSICAL GUIDE**.  
5.0 p.m.—Time Signal Chime from G.P.O.  
Close Down.

**EARLY EVENING SESSION.**  
5.45 p.m.—Children's Corner: Jimmy Jackson and the **Parusayd Five**.

**EVENING SESSION.**  
7.30 p.m.—Mr. George Reardon of the Beaches Physical Culture College, "Physical Culture **FAIR**."

7.45 p.m.—British **Official Wireless Press**: Studio Barometer and Outdoor Thermometer Readings: Racing Amateurs and Sporting Events of the week, reviewed by "Field Glasses."

Australian Sheet: A Night with our Australian Composers at 4 Builders.

8.2 p.m.—Miss Ada Freeman, Mus. Bac. Pianiste.  
"Prelude" (L. Lavater).  
"Toccata" (F. Liszt).

8.5 p.m.—Miss Edith Langer, Soprano.  
"I Passed by Your Window" (Brabe).  
"The Call of the Day Time" (Brabe).

9.14 p.m.—Mr. Milton Chick, Baritone.  
"Ballad of Queen's Grange" (Brabe).  
"A Glance" (Clifton Burtis).

9.31 p.m.—Miss Rene Bartley, T.D., L.C.M., Recital of Australian Verse: "Gone" (Adrian Lindsay Gordon).

9.47 p.m.—Miss Milly Hunt, Violiniste.  
"Lullaby" (Sonata in G Movement) 1<sup>st</sup> (Linda Phillips), First Performance.

9.57 p.m.—Rev. Dr. Brandt, Travelling "Jesu-  
phim, the City of the Bible and Story."

10.2 p.m.—Miss Edith Langer, Contralto.  
"Down Here" (May Brabe).  
"The Sun God" (William James).

10.39 p.m.—Mr. Milton Chick, Baritone.  
"Lullaby" (Merry Caponnet) (A. Hill).  
"How Sweet the Moonlight" (Minnie Hill).

10.56 p.m.—Miss Ada Freeman, Mus. Bac. Pianiste.  
"March Grottoque" (Iris Bayne).  
"Oriental" (Louis Lavater).

"Russian Dance" (Linda Phillips).  
9.14 p.m.—Mr. Arthur Kempton, Baritone.  
"A Warwickshire Wain" (W. James).

"A Warlike King" (Elizabeth Foxwell).  
9.21 p.m.—Miss Rene Bartley, Recital of Australian Verse.  
"Carols" (Harold Harrold).

"Carols" (Harold Harrold).  
9.24 p.m.—Miss Rene Bartley, Soprano.  
"Come to the Forest" (Iris Bayne).  
"Piper Jolly" (Mally Larew).

9.35 p.m.—Miss Milly Hunt, Violiniste.  
"Two Paraphrases on Bach's Choral Prelude" (Fritz Hart).  
"Tallish" (Hilbert), her own composition.  
"Kleise" (Adrian Lindsay Gordon).

9.43 p.m.—Mr. Arthur Kempton, Baritone.  
"Oriental Charming" (his own composition).  
"My Yesterday" (Foxwell).

"Come Little Maiden" (Milly Hunt).  
9.52 p.m.—Miss Edith Langer, Contralto.  
"O Western Wind" (Brabe).  
"Tintin" (Molly Carrow).

10.0 p.m.—Time Signal Chime from G.P.O.;  
Studio Barometer Readings: "Age" News  
bulletin, followed by M.R.

10.0 p.m.—Studio Orchestra.  
11.0 p.m.—Time Signal Chime from G.P.O.  
Close Down.

## 4QG, BRISBANE.

**Friday.** MIDDAY SESSION.

1.0 p.m.—Market Reports: Weather Information: "The Daily Mail" and "The Daily Standard" News.

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

1.58 p.m.—From the Observatory: Standard Time Signal.  
2.0 p.m.—Close Down.

**AFTERNOON SESSION.**  
3.35 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."  
4.45 p.m.—Close Down.

**EARLY EVENING SESSION.**  
6.0 p.m.—"Daily Standard News": Weather Information: Amusements: "The San-  
dwich" (Holtin) Stories by "The San-  
dwich."

7.0 p.m.—Market Reports: Stock Reports.  
7.30 p.m.—Weather News: Amusements.  
7.45 p.m.—Standard Time Signal.

**NIGHT SESSION.**  
W.E.A. MUSIC CLASS.

The Workers' Educational Association Tutorial Classes in music are being held in the Reception Hall at 4242 (1st floor), and are being conducted by Mr. George

Sampson, F.E.C.O. (Musical Advisor, Department of Public Instruction), Lecturer in Music, Teachers' Training College.

The object of holding the classes at 4242 is to enable the lectures and music, and to make available to a large audience the exceptional music place before, and to have a class will extend over a period, and will be held each Friday night.

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

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

7.45 p.m.—From the Reception Hall: W.E.A. tutorial music class. The lecture to-night will be illustrated by the following artists: Mr. A. H. Slough (bass violin), Mr. Burton (saxonal violin), Mr. H. Slough (violin), Mr. Felix Jefferson (cello).

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

**THE LYRIC GLEE PARTY.**

The second part of the programme will be provided by Lyric Glee Party, and has been arranged by Mr. J. T. Curran.

8.15 p.m.—Class: "Song on 'My Morning' (M. J. Curran); Lyric Glee Singers: solo, "The Battle Eve" (Hobson), Messrs. Melville and Curran; tenor solo, "Nally Harbor" (by special request); Mr. R. J. Robinson, "The Usual Way" (Smith); Miss May Aspland, madrigal, "Who Shall Win My Lady Love?" (De Penzance); Lyric Glee Singers: tenor solo, selected; Miss Jane Bellows, baritone solo, "Come Sing to Me" (Thompson); Mr. H. Bellows, a thought for to-night (Will H. Lister); "Two Things"; humorous quartet, "Jack Sprag" (Blackburn), mixed quartet, avarice solo, "Bacon of Testaments" (Bardon); Mrs. H. Gibson, elocutionary number, "Alton Dale"; Miss M. Aspland, male quartet, "In Absence" (Dudley Hugh); Lyric Glee Quartet; bass solo, "The Carrow" (Bank Gould); J. P. Curran, well-known, "In The Hour of Sorrow's Splendor" (Pitts); Lyric Glee Singers.

10.0 p.m.—"The Daily Mail" News: Weather News: Football News: Close Down.

## 5CL, ADELAIDE.

**Friday** MORNING SESSION.

12 noon—G.P.O. chimes.  
12.15 p.m.—Recital on the "New Reproducing Sonora" and the "Automatic Reproducer."  
12.30 p.m.—"Advertiser" news service.  
12.55 p.m.—Market reports.

1.0 p.m.—G.P.O. chimes.  
1.15 p.m.—Recitals on the "New Reproducing Sonora" and the "Automatic Reproducer" 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 selections.  
3.45 p.m.—From the Studio—Recitals on the "New Reproducing Sonora" and the "Automatic Reproducer."

3 p.m.—G.P.O. chimes.  
 4.1 p.m.—Bary from the Arrenda Cafe—Orchestral selections.  
 4.22 p.m.—Status announcements.  
 4 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

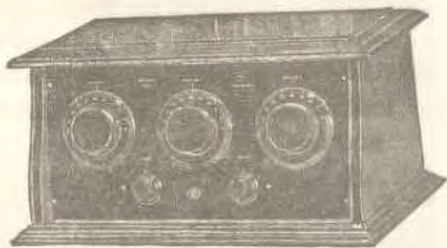
8 p.m.—G.P.O. chimes.  
 8.1 p.m.—Benny music by the Covent Garden Restaurant Orchestra.  
 8.45 p.m.—Children's bedtime stories.  
 9.25 p.m.—Market report.  
 9.55 p.m.—Sporting talk by "Metropolitan."  
 10 p.m.—Football talk by Mr. E. Johnston.  
 9 p.m.—G.P.O. chimes.  
 8.1 p.m.—Malcolm Reid's Warehouse, architectural selections.  
 8.15 p.m.—Song, Mr. H. Worden.  
 8.19 p.m.—Malcolm Reid's Orchestra.  
 8.25 p.m.—Song, Miss Hilda Simcock.  
 8.34 p.m.—Malcolm Reid's Orchestra.  
 8.42 p.m.—Song, Mr. N. Morphett.  
 8.48 p.m.—Malcolm Reid's Orchestra.  
 9 p.m.—G.P.O. chimes.  
 9.1 p.m.—Weather report.  
 9.2 p.m.—Dalgety's wheat report.  
 9.4 p.m.—Song, Miss E. Malone.  
 9.8 p.m.—Violin solo, Mr. Jas. Glennon.  
 9.15 p.m.—Talk by Mr. Geo. Quinn (Chief Horticultural instructor).  
 9.29 p.m.—Song, Mr. H. Worden.  
 9.34 p.m.—Banjo duet, Messrs. Joe Williams and G. Smith.  
 9.49 p.m.—Song, Miss Hilda Simcock.  
 9.44 p.m.—Violin solo, Mr. Jas. Glennon.  
 9.55 p.m.—Song, Mr. N. Morphett.  
 9.54 p.m.—Humorous recitation, Mr. G. Horton.  
 10 p.m.—G.P.O. chimes.  
 10.3 p.m.—Advertiser's news service.  
 10.13 p.m.—Song, Miss E. Malone.  
 10.19 p.m.—Banjo duet, Messrs. J. Williams and G. Smith.  
 10.24 p.m.—Song, Mr. H. Worden.  
 10.28 p.m.—Humorous recitation, Mr. G. Horton.  
 10.34 p.m.—Song, Miss Hilda Simcock.  
 10.43 p.m.—Violin solo, Mr. Jas. Glennon.  
 10.42 p.m.—Song, Mr. N. Morphett.  
 10.48 p.m.—Banjo duet, Messrs. J. Williams and G. Smith.  
 10.49 p.m.—Song, Miss E. Malone.  
 10.44 p.m.—Pianoforte, Mr. Tom King.  
 11 p.m.—G.P.O. chimes and close down.

**Saturday, May 28**  
**2FC, SYDNEY.**

MIDDAY AND AFTERNOON SESSION.

10 noon—"Big Ben" and programme announcements.  
 12.2 p.m.—Stock Exchange—First Call.  
 12.3 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.  
 12.5 p.m.—Studio music.  
 12.10 p.m.—Summary of "Sydney Morning Herald" news service and cable. Huzby Wireless News.  
 12.25 p.m.—Studio Music.  
 12.45 p.m.—A Talk on Gardening by "Redman," Mr. G. G. Lockley.  
 1 p.m.—"Big Ben." Weather intelligence.  
 1.5 p.m.—"Evening News" midday news service.  
 1.52 p.m.—Studio Music.  
 Races from Canterbury will be described in the remaining, direct from the Course, described by the 2FC Racing Commissioner.  
 Results from the Newcastle Cup meeting and descriptions.  
 Sporting results of football matches, Soccer, Grand Club, and H.S.W. v. Cronin-Slovakia.  
 Also the New Westworth Symphonic Dance Orchestra, under the baton of Mr. Frederick Leighton, will be heard in popular numbers at intervals between 3 p.m. and 3.30 p.m.  
 4.28 p.m.—A complete resume of the day's sporting and racing events.  
 6 p.m.—"Big Ben." Close down.

**Incomparable —**  
**Farmer's Five-Valve Receiver**  
*complete with all accessories*



Sydney, Melbourne, Brisbane, Adelaide, are yours to command—All Australian Stations with the exception of Perth, being received at Loud Speaker strength.

Moreover, the instrument is ready for immediate operations—no delicate adjustments necessary—complete with all the accessories, which include the following:—

- 5 "Radiotron" Valves, UX201A.
- 1 Polo and Radford Accumulator.
- 2 "Everready" 60 "B" Batteries.
- 1 "Everready" "C" Battery.
- 1 "Amplion de Luxe" Speaker and Loud Speaker Cord.
- 1 Set of Aerial Equipment, including 100-feet of Aerial Wire.
- 6 Insulators, 25 feet lead-in-wire.
- 1 Lead-in-tube and Lightning Arrester.

Price, Complete with all Accessories . . . . . **£40/-/-**

*Wireless Department, Ground Floor*

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 PITT, MARKET & GEORGE STREETS.

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NEW AUDIONS, one the DL4

Specifically designed for Radio Frequency Amplification, as such it has no equivalent. Regardless of the type of RF circuit, audions of very uniform characteristics are required for the best results. The DL4 audion is a necessity.

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SPECIALIST

RADIO AUDIONS  
ISOLANTITE BASES

International Radio Company

200 Castlereagh Street, Sydney  
Wellington, N.Z.

## EARLY EVENING SESSION

- 5.45 p.m.—The climax of 2FC.  
6.00 p.m.—The "Hello Man" talks to the children.  
6.30 p.m.—A Serial Story.  
6.40 p.m.—Dance Music.  
7 p.m.—"Big Ben" late sporting information.  
7.10 p.m.—Weather Intelligence.  
7.15 p.m.—"Evening News" late news service.  
7.35 p.m.—Studio Music.

## NIGHT SESSION

- 7.45 p.m.—Programme Announcements.  
7.50 p.m.—From the Studio—Musical Items.  
8 p.m.—"Big Ben." Broadcast from the Crystal Palace Theatre, Sydney—Orchestral Items—Conductor, Mr. Harry Stone.  
8.10 p.m.—From the Studio—  
Jones and Raines—Entertainers.  
8.20 p.m.—2FC Dance Band—Conductor, Mr. Ken Pearce.  
8.25 p.m.—From the Crystal Palace Theatre—Orchestral Items, incidental to the film "The Volga Boatmen." The Russian Choir will be heard in the song "The Young Boatman." Mr. Harold Harris, Bass, and Miss Dorothy Hawtree will sing "Petruška."  
8.30 p.m.—From the Studio—Mr. George Veevers, Baritone.  
"Shepherds see thy Herds Fawning Man" (Korbay).  
8.44 p.m.—2FC Dance Band.  
8.50 p.m.—Mr. Wally Hayes, Comedian.  
8.54 p.m.—Miss Marygrove—Solo—Soprano—"Serenade" (Gounod).  
9 p.m.—2FC Dance Band.  
9.6 p.m.—Mr. George Veevers—Baritone  
(a) "Alors" (Mallory).  
(b) "Far on High the Cranes give Cry" (Korbay).  
9.13 p.m.—Mr. Scott Alexander will present the latest of Marlin Moe's Topical Comedy Radio Hums—chorus. Entitled "The Absurdity of Being Rich." Written specially for 2FC, by Codrington Ball.  
9.20 p.m.—Jones and Raines—Entertainers—"A May Morning" (Denon).  
9.44 p.m.—Broadcast from the Crystal Palace Theatre—Orchestral Items.  
9.54 p.m.—Miss Marygrove—Solo—Soprano  
10 p.m.—"Big Ben" 2FC Dance Band.  
10.5 p.m.—Mr. Wally Hayes, comedian.  
10.15 p.m.—Crystal Palace Orchestra.  
10.25 p.m.—Mr. Wally Hayes, Comedian.  
10.30 p.m.—Mr. Scott Alexander and company in an original Radio domestic comedy by Codrington Ball, specially written for broadcast. Entitled "WATCHING WATCH'S WATCHING."  
Scene: Watch's home on Warbling day" (Paddington).  
Characters,  
Theodora O'Brien Watch: Miss Ruth Wilson  
Michael Watch (Her insignificant husband).  
Mr. Scott Alexander.  
Murphy (a bottle), Nibbs (His Mate) etc.  
11.00 p.m.—2FC Dance Band.  
11 p.m.—"Big Ben." Late Sporting News and announcements.  
11.5 p.m.—2FC Dance Band.  
11.15 p.m.—Broadcast from the Wentworth Hotel—Sydney—The N. & Wentworth Symphonic Dance Orchestra, under the baton of Mr. Frederick Leighton.  
11.45 p.m.—Close down—National Anthem.

## 3LO, MELBOURNE

Saturday

- 11 a.m.—STUDIO ORCHESTRA:  
Selection "The Bat" (Strauss).  
11.10 a.m.—GRACE AND KEATS:  
"In Harmony."  
11.15 a.m.—C. R. CHUGG Solo:  
"Millet."  
"Batterly" (Hebler).  
11.24 a.m.—LEW JAMES AND DODIE WOLFE, Jewemours and Zuzbrette:  
"When you walked out."  
"All that you can hear is tin, tom, tum."  
Foster.

- 11.31 a.m.—STUDIO ORCHESTRA:  
"The Colley and The Fairy."  
11.40 a.m.—LARK WHITE AND GRAY SMITH,  
"Bargains."  
"Announcements from their representatives."  
11.44 a.m.—FRANK AND FRANCIS LIVE.  
Banquet Toastmasters:  
Dance "Dress Let."  
Song, "Isles of Paradise."  
Best Gossip, "Hula Hula."  
11.45 a.m.—Tina Arnold. British official  
selections from Raggy, "Argus" and  
"David" news service.  
11.50 a.m.—STUDIO ORCHESTRA:  
"Lala" (Schubert).  
11.55 a.m.—FREDERICK GEORGE, Baritone:  
"The Floral Dance" (Mouss),  
"Bridal" (Lohr).

## MIDNIGHT SESSION.

- 11.55 p.m.—STUDIO ORCHESTRA:  
Selection, "Fandango" (Aubler).  
12.17 a.m.—Stock Exchange information.  
12.35 p.m.—MAXWELL CARRW, Comedian:  
"The Old Game" (Original).  
"Track Song."  
"In the Sea" (Original).  
1 p.m.—STUDIO ORCHESTRA:  
Gavotte, "The Music Master" (Regner).  
1.10 p.m.—JOE BURNAN, assisted by IDA  
NEWTON:  
"I don't Want to Go."  
IDA NEWTON, "Oh, for shame."  
1.20 a.m.—Weather forecast.  
1.30 a.m.—STUDIO ORCHESTRA:  
"L'Amour de Pappillon" (Hemolberg).  
1.35 p.m.—FREDERICK GEORGE, Baritone:  
"King Charles" (White).  
"Friend of Mine" (Sanderson).  
1.40 a.m.—A. G. SPRY, Comedian:  
"I Think I'll Apply for That."  
"Bouquet."  
1.50 a.m.—STUDIO ORCHESTRA:  
"Forest Scenes" (Orch).  
2 p.m.—Description of Federal Hurdle Race,  
5 miles, Moonee Valley Races, by "Mus-  
ket" of the "Sporting Globe."  
2.5 p.m.—Close down.

## AFTERNOON SESSION.

- 2.30 p.m.—Description of Bestwind High-  
weight Handicap Moonee Valley Race, by  
"Musket" of the "Sporting Globe."  
3 p.m.—LEAGUE FOOTBALL—  
MELBOURNE v. GEELONG, AT MEL-  
BOURNE CRICKET GROUND, transmitted  
from the M.C.C. by Rod McGregor.  
3 p.m.—Description of Penzance Handicap,  
2 1/2 miles, Moonee Valley Races, by  
"Musket" of the "Sporting Globe."  
3.15 p.m.—JOE ARONSON AND HIS SYN-  
COPATING SYMPHONISTS:  
"The Lancers" (Adams).  
"Henry Little Thing" (Spencer).  
"That Bannan and Delilah Melody" (Grey).  
3.30 p.m.—LEAGUE FOOTBALL—  
MELBOURNE v. GEELONG, AT MEL-  
BOURNE CRICKET GROUND, half-time  
news, transmitted from the M.C.C.  
by Mr. Rod McGregor.  
3.55 p.m.—JOE ARONSON AND HIS SYN-  
COPATING SYMPHONISTS:  
"You're Got to Black Shuffle" (Sparks).  
"You find the Girl" (Donaldson).  
3.58 p.m.—Description of Stenches, 2 miles  
& chains, Moonee Valley Races, by "Mus-  
ket" of the "Sporting Globe."  
4.25 p.m.—JOE ARONSON AND HIS SYN-  
COPATING SYMPHONISTS:  
"There Ain't no Maybe in My Baby's Eyes"  
(Kahn).  
"Kentucky Lullaby" (Miller).  
4 p.m.—LEAGUE FOOTBALL—  
MELBOURNE v. GEELONG, AT MEL-  
BOURNE CRICKET GROUND, half-time  
news, transmitted from the M.C.C. by Mr.  
Rod McGregor.  
4.10 p.m.—Description of Mt. Alexander Hand-  
icap, 1 1/2 miles, Moonee Valley Races, by  
"Musket" of the "Sporting Globe."  
4.35 p.m.—JOE ARONSON AND HIS SYN-  
COPATING SYMPHONISTS:  
"The Village Blacksmith Gave the Village  
Song."  
"Tai Jongin' Fo' You" (Haltaway).

## Icebergs made Harmless By Burgess Batteries



WHITE-shrouded Death—immense, impassive, terrifying—drifts from Polar Seas, across the path of the giant Atlantic liners, menacing thousands of lives and millions of money.

Fully and strongly, sent out by magnificent Burgess Radio Batteries, comes the warning to every steamer—despatched from the Coastguard Patrol maintained by America. These radio batteries—the same as those sold hourly throughout Australia—never fail. Upon them great fleets can depend with absolute safety!

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25 Queen's Bridge St., MELBOURNE, Charles St., ADELAIDE, Queensland Agents:  
Canada Cycle and Motor Agency (Q.) Ltd., Creek and Adelaide Sts., BRISBANE.

### Analogy of Bath Cistern

The main difference between a full and a half empty bath cistern is that the first gives twice as much water. Actually the volume flowing is governed by the size of the pipe. Call the cistern a battery, and the amount of water the service hours, then you will understand that a 45-volt battery which is twice the weight and size of a second will have twice the life—it has twice the service hours.

Does your set draw heavily on current--more than 20 Milliamps? Then the over-size 14 lb. 45 volt Burgess B Battery will last longer than any other made. Insist on having the

## Burgess B 10308

"How many miles per gallon" is a question often exchanged between car owners. "How long does your 'B' battery last?" is almost as frequent when radio enthusiasts meet.

In the first case, no sensible motorist would compare the miles per gallon obtained by a light Ford with the mileage of a heavy, powerful Packard. Yet comparisons almost as ridiculous are made by owners of sets using little current and those whose sets draw heavily on current. To estimate the expected service life of a "B" battery it is necessary to know (a) exactly how much "B" current is taken by the receiver, and (b) about how many hours a week the set is used.

The current can easily be measured by using an ammeter which reads in thousandths of an ampere and is therefore called a-millimeter.

Your current drain is not necessarily in proportion to the number of valves. An ammeter test made recently by us showed that one 6-valve set operated with 0.5 milli-ampere, while another, a 5-valve set, with the same voltage, drew 21.0 milliamps.

With a set drawing heavily on current, you must use a heavy over-size battery for life, power and economy. The Burgess Company has designed its 10308 over-size battery for just such sets, and it has the longest life of any "B" battery made.

This vertical type battery gives 45 volts. It has 30 extra large cells and weighs 14lbs., yet is built to fit easily into a set. It has brass posts and contact with insulated nut terminals to give 22.5 and 45 volts from the negative. This battery is specially built to meet all requirements of heavy current drains.

Obtainable only from High-class Dealers, or Wholesale from—

### New System Telephones

Pty., Ltd.,

280 Castlereagh St., Sydney.  
27 Queen's Bridge St., Melbourne,  
Charles Street, Adelaide.



S.B.

"That's Why I Love You" (Donaldson).  
"Take in the Sun, Hang out the Moon" (Woods).

4.35 p.m.—LEAGUE FOOTBALL.—  
MELBOURNE v. GEELONG, AT MELBOURNE CRICKET GROUND, three-quarter time resume, transmitted from M.C.C. by Mr. Rod McGregor.

4.40 p.m.—Description of Kolor Handies, a (Lurling, Mounse Valley Hazy, by "Musket," of the "Sporting Globe."

4.45 p.m.—DORRIS AND HIS SYN-  
COPATING SYMPHONISTS:  
"Me Too, Ho, Ho, Ha, Ha" (Brown).  
"In a Little Spanish Town" (Warne).

4.50 p.m.—"Herald" news service. Stock Exchange information.

5 p.m.—LEAGUE FOOTBALL.—  
MELBOURNE v. GEELONG, AT MELBOURNE CRICKET GROUND. Final Score resume, transmitted from M.C.C. by Mr. Rod McGregor.

5.15 p.m.—Close down.

#### EVENING SESSION.

5.30 p.m.—Sporting Results.

5.40 p.m.—"LITTLE MISS KOOKABURRA" will tell her tiny "Kookaburra" sisters and brothers, about "Furry" returning home.

5.45 p.m.—BILLIE LORRAINE:  
"A Little Piece of String."  
"A Daddy and Baby."

5.52 p.m.—CAPTAIN DONALD MACLEAN:  
"The Buccaneers Cross to the Pacific."

5.57 p.m.—BILLIE LORRAINE:  
"If no one ever marries me."  
"When you and I were Seventeen."

6.04 p.m.—"LITTLE MISS KOOKABURRA" will tell her bigger "Kookaburrites" more about "The Cruise of the Saucy Jaws."

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

6.12 p.m.—Stock Exchange information.

6.17 p.m.—Fish Market reports by J. H. Bennett, Ltd., Raffles, Siam.

6.25 p.m.—River reports.

6.38 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd., Newmarket sheep sales, Poultry, Grain, Hay, Sugar, Jute, Dairy Produce, Potatoes and Onions.

7.8 p.m.—Market reports of Fruit, by the Victorian Fruitgrowers' Association, compiled by the "Fruit World" exclusive to 310.

7.15 p.m.—MR. R. SIMMS, Secretary Commonwealth Railways, will speak on:  
"Uniform Gauge for South Australian Railways," Part 2.

7.30 p.m.—MR. F. CHAPMAN, A.L.S., will speak on:  
"The Plants called Hebeatais."

7.45 p.m.—DR. J. A. LEACH, will speak on "Flowers and Dottedels."

8 p.m.—BRUNSWICK CITY BAND:  
March, "Standfast and True" (Faul),  
Thomson solo, "The Strathmore" (Gaston).

8.10 p.m.—MAXWELL CARW, comedian:  
"I've never seen a straight banana."  
"Blighton."

"Girls never get worried" (Original).

8.30 p.m.—BRUNSWICK CITY BAND:  
Selection, "Gems of Victorian Melodies" (Round).

8.32 p.m.—LEE WHITE AND CLAY SMITH Selections from their repertoire.

8.40 p.m.—BRUNSWICK CITY BAND:  
Fantasia, "The Old Rustic Cottage" (Walton).

8.47 p.m.—MR. NORMAN McCANCE will describe the Wrestling Match at the Melbourne Stadium.

8.57 p.m.—"Argus" news service. British Official Wireless News from Rugby.

10.27 p.m.—BRUNSWICK CITY BAND:  
Overture, "Giganticus" (Balch).

10.35 p.m.—THE FUTURISTS present their Radio Revue:  
VAUDEVILLE VANTIES.  
The COMPANY in an opening chorus.  
IRA VANDA and the Company give a concerted Comedy Item.  
A Sketchette.

**A BIRD IN THE HAND.**

The Wife, IRA VANDA.  
The Husband, GEE DAWSON.  
The Friend, CYRIL NORTHCOTE.  
IRA VANDA will sing a Concert Song.  
LUSKIN DUNSMOY has a few words to  
say.

A Treatise by the Company.  
123 p.m.—Microscopical Information. An-  
nouncements.

11 p.m.—OUR GREAT THOUGHT!  
He who fears to venture as far as his  
best hopes and his famous scientific, in a  
word, he who ventures further than he  
is bound to do, is a slave.—Helen.

11 p.m.—JOE ARSONY AND HIS SYNGO-  
LAMPHONISTS:

- On the Riviera (Rug).
- On the Waters of Minnetonka (Laur-  
man).
- That's My Girl (Davis).
- I Want a Person for Buddy (Rama).
- My Little Blues (Hardy).
- It's All the Devil (Thorn).
- You Need Someone to Love (Glen).
- Walk Hawaiian Walk!
- Swing in Society (Aket).
- Swing Like (Foster).
- Conceal the Devil Within You (Conroy).
- Swing (Fried).
- Make You Dance (Dandidon).
- Rhapsody (Nichols).
- How Could Red Riding Hood (Randolph).
- My Heart has come Charlie (Meyer).
- While the years go Drifting By (Kahn).
- Swing (Blue Bird Whistles a Tune)  
(Ilyse).
- Shout on the Ganges (Wallard).

11 p.m.—GOD SAVE THE KING.



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**A QUALITY** no other insulating material has. Perfectly cut edges on any size panel from 1" x 1" to 48" x 21" in either black or mahogany.

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## All Readers' Queries Answered Here

C.H. (WEST MILTON, QLD.).—Q.: When tuning my receiver with the variable condenser I notice that when the condenser plates are 1-3rd out the set starts to growl and splutter until the plates are right out. Can you advise me what is the matter?

A.: Your condensers' plates are evidently making contact between the moving and fixed plates when the moving plates are one-third out, or perhaps you are burning your filaments too high.

G.G. (WOOLDOON, QLD.).—Q.: When receiving 501, the first dial on my receiver reads 75 deg. and the second dial 95. As this will not enable me to receive 2FC I would be pleased if you would suggest I use a different brand of condenser. The capacity of the condensers in use are of 10005 capacity.

A.: The brand of condenser you mention is quite OK. Advise you in wind more turns to your coils to enable you to tune in a higher wavelength. The components you mention are quite OK.

R.K. (WEST MOUNTAIN).—Q.: I noted a circuit in your issue of April 4 on page 11; would you kindly give me details of this receiver?

A.: See "Radio" March 16, 1927.

H.H.W. (CLYDE).—Q.: I intend substituting a Geophones transformer for a Jefferson, but the markings on them do not coincide. The markings on the Jeff. are P, plus R, equal F, and G, while the markings on the Geophones are plus, A7 G & F. Could you tell me the equivalent markings of the Geos. to the Jefferson transformer?

A.: Plus, equal plus H, A equal P; G & F, are the same as the Jefferson.

S.W. (TORORM).—Q.: Is it possible to take my aerial from the pole straight to my receiver without putting it through the theroon in switch and arrester, and how can I put the ground wire with the switch?

A.: We strongly recommend the use of a lightning arrester, especially for country use. On the other hand, take your aerial straight to the A terminal of the set, and the earth wire straight to the E terminal. Whenever the set is in use, disconnect both wires from receiver and join them together.

### 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.

R.D. (ROZELLE).—Q.: (1) Would you kindly recommend me a circuit of a short wave Reinartz receiver capable of tuning from about 30 to 20 metres?

(2) Also, are valves with small capacity existing between electrodes, such as "Deco" more suitable for short wave work than larger ones?

A.: (1) Circuit of short wave receiver will be published in May "Radio"; this is especially recommended to you.

(2) Not necessarily.

G.J.B.H. (HAMMILTON, NEWCASTLE).—Q.: I have constructed the Single Valve Receiver which appeared in "Wireless Weekly" of January 5th. I can tune 3L0, 400 and 2FC in quite well, but I cannot receive 3RL although there seems to be plenty of condenser space left. Also could you tell me how to stop hand capacity as this is slightly in evidence when tuning?

A.: If you comply with the instructions given in "Wireless Weekly" no trouble should be in tuning in Station 3RL. Remember, 3RL will have a lower dial setting than 3L0. Make sure that the Grid terminal and the coil goes to the fixed plates of the condenser to stop hand capacity.

P. J. COOKE (BELLBIRD).—Q.: Could you advise me which is the best wireless receiver to use? At the present time I have 1 and 2 valve receivers. One a Crosscountry, made by myself, and the other a commercially built receiver, made a few years ago.

A.: The Neutrodyne receiver is a very good set for country use, but when you ask for the BEST receiver we should unconditionally recommend a Super-Heterodyne Receiver. Suggest the receiver described in "W.W." of August 6, 1926, only add 2 stages of audio instead of the one stage as described.

A.H.McI. (WENTWORTHVILLE).—Q.: Would separators out of a Premier Accumulator type W6, be as suitable as glass to make the Accumulator B Battery described in "W.W."?

A.: Yes, quite OK, provided they are in good condition.

L.B. (ALEXANDRIA).—Q.: Re your 4 Valve Neutrodyne, published in "Radio," January 6th, I notice that it has three positions on the B battery. As I have a Philips Eliminator which only has two positions marked on it, could you tell me how to connect it?

A.: Place the 22 volts and 45 volts off the receiver to the plus-Det. on the eliminator.

W.H. (MURRAIN).—No copy of six valve Browning Drake available.

F.C. (CHADSWOOD).—Q.: I have had remarkable success with the one valve Reflex receiver published in your journal of July last, but with all the stations I have received there is a slight trace of interference. Could you tell me how to make this receiver more selective?

A.: Place either .001 or .0005 variable condenser in parallel with the aerial coil.

EXPERTO CREDE (NORTH SYDNEY).—Place a potentiometer in circuit, as this set is hard to stabilise without the use of it.

J.H.M. (MAROUBRA).—The information you require will be published in "Radio," although at present we cannot notify you of the date.

G.H. (FIVE DOCK).—The Browning Drake. See "Radio" 2/3/27.

S.R. (WAVERLEY) and G.W.H. (EAST WOOD).—See next week's "W.W." for 5 valve Reinartz receiver with combined wave trap.



— NEW BRITISH MADE —  
THE WORLD'S BEST  
INTERVAL TRANSFORMER.

Lovers of music will realize that it is necessary to amplify all sounds in accurate proportion in order to get satisfaction from wireless concerts. Many receiving sets are ruined by Transformers which ignore this fundamental. "FERRANTI" Transformers are designed with realization of this big factor in full view.

The types are the "AF3" and the "AF4". The "AF3" Transformer gives higher and more uniform amplification, over a wider range of musical frequencies, than any other Transformer available. The "AF4" Transformer, which has been designed to meet the demand of a high-class Transformer at a low price, gives finer results than are obtainable with any other type, except the "AF3" and one other (an expensive make).

TYPE—AF3  
42/6

Impedance:

at 100 periods, 50,000 Ohms.  
at 500 periods, 110,000 Ohms.

No better Transformer is available at any price.

Interval  
Transformers

TYPE AF4 — 32/-

Impedance:

at 100 periods, 12,500 Ohms.  
at 500 periods, 90,000 Ohms.

The Best Transformer at the price.



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WEDMA, LTD., Adelaide EDGAR V. HUDSON, Brisbane.

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**AMPLION**

**CONE**

**PRICE, £8/8/-**

THE AMPLION CONE is the latest addition to the famous AMPLION line. It reproduces faithfully every note and tone from highest Soprano to deepest Bass. In addition, it is especially notable for the clarity with which it reproduces speech, the supreme test of any radio reproducer.

You will enjoy the many speeches and talks that will be broadcast this Winter much more if you attach an AMPLION Cone to your radio set.

A feature of the AMPLION Cone is that it is adjustable, just like all other AMPLION Loud Speakers, differing in this respect from many other types of Cones.

*The AMPLION CONE unit is also supplied without cabinet, for incorporating in radio sets. Prices on application.*



**Radiolux  
AMPLION**

# AMPLION

RADIOLUX AMPLION is already world-famous as the supreme reproducer of musical notes. It offers a medium for the reproduction over a broader range of tones by developing in all their rich tonal colouring and natural beauty the subtle overtones, giving tonal clarity such as you have never heard before.

Its striking beauty of line and quiet setting make it a fit ornament for any room.

*Available in two sizes and five distinctive finishes, from £5 to £9.*

The famous AMPLION Loud Speakers are obtainable from all radio manufacturers and dealers throughout Australasia.