

WIRELESS
WEEKLY

Broadcast Programmes a Week in Advance

VOLUME 10

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NUMBER 23



Friday, September 30, 1927.

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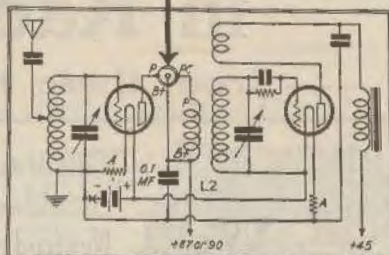
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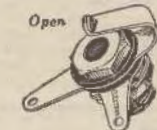
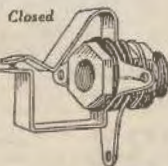
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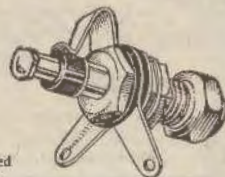
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WIRELESS WEEKLY

VOL. 10, No. 23.

FRIDAY, 20th SEPTEMBER, 1927.

What will be the effect of the Royal Commission Report?

THE long expected report of the Royal Commission on Wireless has been made available to us. The reason for withholding it so long has not been explained, but presumably the Government had very good reasons for deliberating on the report before publishing it, and the report contained quite enough of importance to justify careful and unhurried examination.

But really, what matters is—what action is the Government going to take on the report? Recommending a course of action is one thing; adopting the recommendations is another matter. We have frequently found that reports of Royal Commissions have not been adopted in their entirety by the Government that created the Commissions. In this case, it appears that the Government has decided to consult Amalgamated Wireless before announcing what decision will be made. One naturally presumes that it is the Government representatives on the Board of Directors who will be consulted, not the full Board of the Company that has received such severe criticism in the report.

The most satisfying feature, perhaps, is the prospect of reduced fees for listeners' licenses. Some reduction has been demanded by almost every interest concerned with broadcasting, even by the broadcasting companies that were not paying their way. With the reduced out-payments for royalties by the broadcasting companies, some reduction in the listeners' subscriptions can readily be adjusted.

It is notable that the differential treatment of crystal set owners and valve set owners has not been recommended by the Commission; such a distinction was expected by some people, but it cannot be defended.

A somewhat surprising proposal is made regarding the distribution of the broadcasting companies' revenue. Apparently the

Commissioners were perplexed in attempting to solve the problem of the losses sustained by some of the companies. Many different suggestions were made to the Commission purporting to be panaceas for the ailment.

It seems, however, that a radical change is to be made—if the recommendation is adopted—in distributing the revenue. In order to help the non-paying stations the large stations like 3LO will have to lose quite a large share of its revenue. And because more than half of the license revenue comes from the State served by 3LO, that station is to be the principal "helper." It seems a bit hard on the helpers who by constant and careful attention to management, consideration of listeners and exploiting every avenue of programme improvement, have been responsible for a widespread body of appreciative listeners. And it will be quite encouraging for the other stations who for various reasons have not been able either to make ends meet or attract a large body of listeners in their States.

Possibly there may be some good reason for such a method of penalising the paying station on the one hand, and doing something that almost amounts to encouragement of slackness in the management of the stations losing money on the other hand, but the reason is not very apparent.

There are many other aspects of the Commission's findings that are worthy of study; but it is worth waiting for a while until the Government's intentions are known.

We must all feel grateful to the Commissioners for their able and valuable report. Their labours were very strenuous, and the investigations must have been at times worrying and difficult—and the time given to the work must have resulted in considerable monetary loss to the Commissioners.

Catching Up with the Wireless World.

By R. E. CORDER.



A MAN has mounted a wireless set on a collar stud. But will he broadcast when it has roiled under the dressing table?

A RESIDENT of Ryde had an extraordinary experience one evening last week. He was walking along the Lane Cove Road in a quiet spot when he heard a voice behind him. He turned round but could see no one.

TO HIS SURPRISE, however, he distinctly heard from the telephone line running above the side of the road the voice of Mr. Halbert, of Broadcasting Station 2FC, announcing a violin solo by Miss Maggie Foster. Following the announcement came the solo itself, apparently emanating from the telephone wire—or indeed from nowhere in particular. The strength of the music was about equal to that of a weak loud speaker.

THE MATTER is extremely mystifying. If there had been any houses in the vicinity it might be supposed that a radio set was in action in one of them, but the place is free of houses at this point. The time was about 8.20 p.m. A thunder-storm was in the air, and a few drops of rain were falling, but these facts do not seem sufficient to account for the phenomenon, which has left experts quite in the dark. A similar case was reported recently from England, where an electric arc light acted as a radio receiver and gave out the programmes of the British Broadcasting Company.

WHAT MUST surely be a most unusual broadcast took place at 5CL on September 22. A calf was born recently in South Australia with its heart situated in its throat. Veterinary surgeons agreed that this was a most remarkable and unusual freak of nature and considerable interest is being taken in the animal. 5CL, by means of the super-sensitive microphone developed by the engineering staff, broadcast the heart beats of the animal.

FUSSY.

Housewife: "Won't you take a chair?"
Installation Collector: "No; thanks. I've come to take the radio."

CLOSE FIGURING.

Madge: "What in the world is a radio bob?"
Marjorie: "Why, that's a short wave!"

SCHEDULED!

No. 35891: "Why is a radio set builder like a commuter?"
No. 35892: "I dunno."
No. 35891: "They both have to make the proper connections."

DX STUFF.

"Do you believe Joe's DX reports?"
"Hardly! Joe's one of those fellows who tunes in Hawaiian guitar music and imagines he's got Honolulu."

The Two Kings

(By C.E.)

No stranger, gayer kings have been,
Since sceptre graced a hand.
Than Alfred Rex and Maurice Rex,
The Kings of Ebseland.

Great Caesar in his greatest day
Had envied them no end.
The endless legends that await
Their royal word, and speed.

One palace, 2LO they share,
And stronger still, one throne;
Nor murky daggers ever rise
That one may rule alone.

So jeered they, and so sought
To hear their people laugh
That even in the market news
Two condescend to chaff.

So blandly on the couriers
They smile that none would think
That Maurice Rex is given to
Portraying them in ink.
To Alfred Rex and Maurice Rex
We charge the sewing bowl;
The dual Kings of 2LO,
As gay as Old King Cole.

PLANS ARE now nearly completed for the November Bride Competition organised by 5CL in conjunction with the Adelaide "Advertiser."

A JUVENILE PLAIN and fancy dress party at Keiraville resulted in £7/1/6 being raised towards the Wollongong Hospital Radio Fund.

A POPULAR MAN competition is being run in the Parramatta and Granville district for the purpose of raising funds to equip local hospitals with radio.

AT GLEN INNES half the money required to install radio at the local hospital is now in hand and it is expected that the balance will soon be raised.

A START HAS BEEN made with the wiring of the wards at Corowa, and it is expected to have radio at every bedside before the end of September.

THE QUESTION of equipping the Parkes District Hospital with radio has lately been the subject of discussion, as there is a strong feeling in the town that Parkes should be brought into line with Bathurst, Goulburn, Young, Canowindra, Inverell, Singleton, and other centres, where similar movements have been initiated.

THE LATEST REPORT from Goulburn, where a committee has been formed to secure the funds necessary to provide radio sets for Goulburn District Hospital and St. John of God Hospital, is that £170 is now in hand. The employees of some of the firms in Goulburn are making small weekly contributions to the fund and some of the schools in the district are following the example of the North Goulburn School, which recently held an entertainment in aid of the fund. Specifications for the installations are now being prepared.

Does FC Mean Father Confessor?

By JACK WIN

THE other day a visitor to 2FC studios, whilst chatting with one of the officials, got a grain of dust in his eye—naturally, to say, by accident—because 2FC has no occasion to throw dust in any one's eyes. The visitor was somewhat annoyed when he was told he was a lucky man, and naturally enquired why? "Because," said the representative of 2FC, "you got it for nothing. Everything we get off the air we have to pay for before we can pass it on."

And through this little grain of dust the visitor learned some interesting facts. Before leaving, he said, "I am afraid I have been one of those who have presumed to grumble and criticise, and have even thought the cost of a license excessive. In future, I shall know better." The wonder is the service can be had at four times the money. It's a pity the public doesn't know more about the enormous cost of providing wireless news and entertainment, it would help them to realise how much they get for "so little." And he spoke the truth.

I wonder how many listeners realise what has to be paid for the news items broadcast in the early morning alone, irrespective of station expenses, but just for the privilege of picking it up from the air; or the amount of labour involved by a highly trained staff in decoding, making fair copies, distributing to those concerned, transmitting, etc.; and all this at an hour when the average working man is asleep in bed; 2FC never sleeps—determination, amounting almost to anxiety, to give the best and latest of everything to the public is its aim, no consideration of personal comfort on the part of the staff would they allow to interfere.

Let anyone who doubts this visit 2FC with any idea or suggestion worth while, no matter when, and he will have positive proof of it. Everything from the operator to the Chief (Mr. Anderson) will be as keenly interested as though it were a matter of big financial profit to each, instead of entailing extra work and worry, and very little, if any, thanks. I have heard visitors to the studio complain that although their views start out to visit 2FC with them, they cannot get them past the windows at Farmer's. This is a serious matter.

It is flattering and yet often embarrassing at times to realise the

wonderful confidence people have in 2FC. In fact, it would almost appear that some of the "thick FC means "Father Confessor." There is a large section of the public that think they have only to wire 2FC to have all their difficulties solved. Some of the communications are awfully simple, others are simply awful. Imagine the Chief deeply engrossed with his Lieutenants on such a question, say, as to whether some artists should be given anaesthetics before or after broadcasting, being handed an urgent wire of this kind: "Broadcast; if my wife, Cissie Casirole, doesn't return home at once, sooner if possible, she can stay away, latter preferred." Or this: "My wife has run away with my landlord, I am very annoyed; please tell her this over the air."

But these are not so bad as the following: "This listening business must be stopped, my daughter was listening at a friend's house, when someone poked a pencil through the key-hole, she is now blind in one eye, what about it?" There are many genuine cases, of course, when 2FC would be only too glad to assist, but this would necessitate making full enquiries (there is always the practical joker with a perverted sense of humor to be considered), entailing expense and delay, during which time it may be too late, or matters may have adjusted themselves. Further, if a precedent was created, the position would soon become impossible, and listeners would be the first to complain if they had to listen to a budget of human ills. A request by the police or other important authority is never refused, and it is to these such requests should be made. 2FC are always ready to help listeners, whether it be in reference to a defective set or a voice that misses fire.

Amongst the many genuine appeals received by 2FC was one for assistance from a Maternity Home (what assistance was not stated). This caused some consternation for a time amongst the male members of the staff who had visions of having to qualify as medical men amongst their other duties. We could imagine Dr. Cochrane being in great demand for children's ailments, and a perfect rush on Mr. Halbert for minor ills. Jack Win at once expressed his willingness to be a nurse probationer, but it was felt that those with the artistic temperament might do more harm than good. 2FC, however, whilst glad to see as many loud speakers pro-



Jack Win, of Win and Windle, the versatile entertainer, appearing at Studio 2FC.

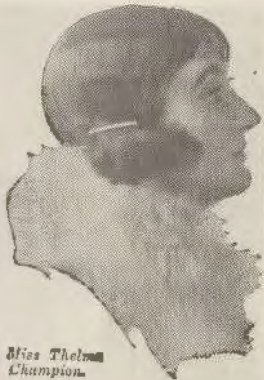
duced in Australia as possible, could not see their way to assist in the development of the industry by placing their staff and station at the services of the Home, and all things considered the decision seems a wise one, and was endorsed by the lady members of the staff, who pointed out that the Home seemed to be doing pretty well, as the appeal states that, when it started a year ago, it had only 9 Mothers, and now has 98.

Another genuine request read as follows: "Please broadcast, My Bulldog Bitch, Fawn, answering to the name of Lizzio, is missing. Wearing collar on neck, and other distinctive marks. You broadcasted the other day that a child was missing, so I am hoping you will pardon the liberty I take in asking your help in our bereavement."

Whilst sympathising with the writer of the above letter, 2FC could not, of course, accede to the request. A Bulldog Bitch, Fawn, is something new, and might interest Taronga Park, unless, as we imagine, "fawn" is the colour of the animal. It should not be difficult to trace a dog wearing a collar on his neck, most of them wear them on their tails we know. It might be a good idea to get George Carney to stand in front of the microphone and whistle, if he can get a copy of Lizzio's vocal score, George is a favourite with the Ladies, and his whistle can be heard in England.

4QG's One Act Plays

*4QG's Experiments in the Radio Drama Field.
How a Young Brisbane Writer is Developing
the Art.*



Miss Thelma
Champion.

4 QG has taken some interesting steps to provide for the broadcasting of a series of one act plays during the coming few weeks.

Plays of various descriptions have made a strong appeal to public imagination for countless years, but the growth of the broadcasting movement and the consequent adaptation of plays for radio purposes has necessitated some rather sweeping changes being made by authors.

The producer of a play in the theatre has both the ears and eyes of his audience to which to make an appeal. In consequence he pays attention to the spoken word and also to scenic effects.

The writer of a play for broadcasting purposes has to realise from the outset the fact that only the spoken word or a mechanical sound effect can appeal. The scenic effect is quite absent, and the writer cannot, therefore, take scenery into any consideration at all.

Not realising these facts to be of paramount importance, many writers of plays for radio purposes have failed to hold the interest of their large audiences.

Another important fact must be borne in mind by the writer of a radio play. The vast unseen audience does not "arrive" at the same time. Quite a number may switch in their sets at the starting time, but many others may not perhaps tune in until half-way through the evening. In view of this fact, the successful radio play must, therefore, not be written with a plot which necessitates the strict attention of the listener from the very first moment it is announced until it is finished, but rather must each scene in it be self contained.

There exists to-day quite a number of plays suitable for broadcast-

ing, but in giving consideration to radio plays, 4QG has decided not to use any which have been broadcast in other countries or in other parts of Australia, or have been produced in book form. It has been decided to have written in Queensland a series of exclusive one act plays, which will be broadcast during the next two or three months.

Miss Thelma Champion, a young Brisbane writer, who is remembered by many listeners in connection with the one act play, "The Love Charm," which she successfully produced some time ago, and who more recently produced "Off Duty," a Digger play, is now hard at work preparing several other plays, which will be produced from 4QG.

The first of these new plays will be "Homeward Bound," a sequel to "Off Duty," and will depict the adventures of four Diggers during their trip back to Australia on a transport.

Later, "Husbands, Know Your Wives" and "Samuel Goes Swimming," two comedies, will be produced by Miss Champion at 4QG.

In all of these plays there is an abundance of music, which adds color to the spoken word, and some very clever effects are being arranged.

The writing of radio plays is quite a new avenue in journalism, and 4QG has determined to give first preference to local authors.

Next Month's Features at 3LO.

A MONG interesting items listed for the early part of October, a Sunday night recital by Madame Ella Kingston is arranged for the 9th. Madame Kingston is a singer, besides being the conductor of the Baptist Church Choir. Concerted Church music has proved one of the most popular features of Sunday programmes, and this church takes deservedly high rank among trained choirs. Every voice is that of a skilled singer.

Speaking of choral singing reminds me that even where such is not skilled, but merely hearty, the heartiness seems to come over the air and please listeners. Few things are more enjoyed, to judge from letters of the unseen audience, than community singing.

A few weeks ago 3LO Melbourne broadcast community singing from Ballarat, and the item proved so much to the taste of the public that a repetition has been demanded, and Ballarat, which has become known as Australia's Art Capital, will again have the honor of having its community choir broadcast. This will take place on the 14th October.

It is in diversity of interest that the best aerial programme reveals itself. Something must be devised

to suit every conceivable taste, if perfection is ever to be approached. Mr. W. H. Butcher, the expert stamp-collector, has been giving talks on his fascinating subject about once a week. Boys are supposed to be the most interested listeners to these talks, but letters show that a great number of men follow them too. Stamps are still collected, apparently. Whatever stimulates interest in such a hobby is doing good work, and Mr. Butcher's talks are to be continued, while the interest in them lasts.

In the same category, as creating interest and stimulating competition is the Children's Voice Trials, which have for the last two years been held in October.

It is undecided yet whether 3LO Melbourne means to continue this competition this year. It is to be hoped that they will, because many people get a decided "kick" out of hearing the childish troubles raised in more or less tongue quavering. There is this much of good about it, that it has resulted in the past in the discovery of one or two excellent little voices, the owners of which have been strictly enjoined not to misuse them by public singing or the other stupidities of which the parents of clever children are sometimes guilty.

The Husham
Serenaders
broadcasting at
3LO Melbourne.



These artists
have made a re-
markable hit
with Melbourne
listeners.

3LO Has Popularised Wrestling

THE stalwart band of world champion wrestlers which 3LO has managed to coax before the microphone, has been added to recently in the personage of Billy Edwards, "the cave man," and Kilonis, whose philosophy is "the rougher the better."

Outstanding contrasts mark the characters of these talking wrestlers. Mike Yokel, who is the proud father of 11 hefty Yokels, and whose home ranch is away up in the snows of the Rockies, tells stories to children in a very nice quiet style, which does not seem to fit in altogether with his picturesque ruggedness.

Sam Clapham preaches health and hygiene in a way that unmistakably betrays his medico student days.

Head-lock Karasick, who is known at 3LO Melbourne as "Classical Karasick," talks on a wide range of literary subjects, but chiefly upon the Russian Classics.

The Modern Apollo, Clarence Weber, will give some cultured talks on physical fitness, but is is problematical what the impulsive Mr. Kilonis and "the cave man," Billy Edwards, will talk about. It would not be surprising, even in these days of wrestling surprises, if one of them should choose Tennyson's poems.

Ted Thye and Billy Meesse seem to be too busy training to face the

"mike," but no doubt Walter Miller, who was mainly responsible for the introduction of big wrestling in Australia, will have something interesting to say about his experiences.

These talks by wrestlers at 3LO Melbourne are indeed fascinating listeners, who are kept in a state of tip-toe expectancy all the time as to what subjects the rugged stalwarts will select.

New Comedy Opera

A LITTLE wireless bird has whispered to me that Alf Andrew has in preparation for early production at 3LO the delightful romantic comedy opera, "Ma Mie Rosette." Listeners have had a feast of heavy and light operas lately from 3LO, with "Faust," "Trovatore," "Fidelio," "The Merry Widow," "Floradora," and now comes "Ma Mie Rosette." The average listener is not aware of the great expense and endless care involved in these productions. Apart from the principals performing, there are bands, orchestras and choruses to be trained and mustered before the microphone—or microphones, for 3LO Melbourne uses several of them in these big feature transmissions.

IT is now generally acknowledged that Norman McCance, by broadcasting descriptions of wrestling matches through 3LO Melbourne, has done more perhaps than anyone else to popularise that branch of athletics and place it on the map in Australasia. It is estimated that over half a million people in every part of the Commonwealth and New Zealand listen-in to 3LO Melbourne to Mr. McCance's descriptions. Many thousands of people who previously knew nothing of "headlocks," "body presses" and "lochsals," now follow Norman with breathless attention, and atmosphere is added, of course, by the microphone picking up the demonstrations of enthusiasm of those witnessing the match, whose harracking is heard as a background to Mr. McCance's description. This naturally lends color and makes them all the more exciting to listeners.

Mr. McCance, however, does not manage to keep every listener keyed up to a pitch of tiptoe excitement all the time. 3LO Melbourne has actually discovered one lady who evidently found the description of a recent match rather slow, but perhaps this was more the fault of the un-spectacular wrestling. This lady rang up after the match was over, and wanted to know who won, as she said she had "fallen asleep whilst listening to the description."



The Safety Valve

Readers are urged to express their opinion on matters pertaining to broadcasting. If you have some grievance, if you have some constructive criticism to offer, here is your chance for expression—your safety valve. The editor assumes no responsibility for statements made by readers and published on this page, as opinions of correspondents do not represent our editorial policies or beliefs. Anonymous letters are not considered.

NIGHT TRANSMISSION.

Dear Sir,—Some four or five months ago many correspondents residing from about 60 to 160 miles from Sydney were rather severe with their criticism regarding the night transmission of 2FC and 2BL. Now, I would very much like to hear from some of those correspondents again, to know if the same conditions re transmission still prevail in those districts.

My reason for inquiring is because up till lately we had exactly the same trouble with 4QG at night, as they had with 2FC and 2BL. During the past few weeks, however, 4QG has been almost perfect. Everyone to whom I have spoken on the matter has noticed the wonderful improvement. Some of them say that it is on account of the change in the weather, while others contend that an adjustment has been made by 4QG. Whatever it is I think the cause of the improvement is well worth while investigating.

In regard to the collecting of data on the interesting study of fading and distortion I have a suggestion to make. My suggestion is that every set owner, when renewing his license, be requested to give a brief report on the reception of each of the A class stations which his set receives; also a brief description of his set. By this means a great amount of very valuable information would be gained which would be of immense value to those who are engaged in radio research work.

Yours, etc.,

Bangalow.

F. J. READING.

CHIMES OF THE CITY.

Dear Sir,—There is one feature of the programmes which has not received the appreciation it should. That is the G.P.O. chimes. The large booming note has a pleasing sound, which brings to the country dweller memories of the city.

Griffith.

W. VERNON.

OUT-OF-TOWN STATIONS.

Dear Sir,—Can any of your readers tell me what benefit will accrue to the great body of owners of simple sets in Sydney and suburbs from the proposed removal of A class stations to distant spots?

Since the reduction of 2FC's wavelength we have learnt to be satisfied with one A station—the nearer. If both leave us, while existent and proposed B class and Morse stations operate near us, we shall have difficulty in receiving even one of them, while interstate reception will still be almost impossible.

I am sure that if 2FC leaves Pen-nant Hills, that chap, who, after ticking Morse, used to amuse himself and worry us by counting from 1 to 20 twice, and then blowing a sort of whistle, will immediately hop into this ideal location.

If it is desired to make broadcast-ing really popular in city and country, let 2FC revert to its former wave-length remaining where it is, and establish relay stations near to, not remote from, populous country centres.

Yours, etc.,

"ONE VALVER."

HOWLERS.

Dear Sir,—Could you find a little space for a greater bug-bear than church service; squealing and howling of so-called wireless broadcast-receiving sets, freak circuits and what-nots. Instead of putting church service off the air, why not make a silent night for these wireless experts, or is it dial twisters? I have heard it said, "Oh, I would not own a set that does not squeal." Now I would like, not an expert, but just an ordinary listener-in, like myself, to advise me which is the better set, the one that squeals like a lost dingo or the one that you place your dial, turn on the power and there you have whichever station you have dialed. Personally, I can dial 28 distinct and separate stations, but cannot make my set howl. Is this a fault?

Yours, etc.,

Blackheath.

C. F. CARLTON.

"HIS MASTER'S VOICE?"

Dear Sir,—As most listeners know, I have been presenting from 2FC a series of homely comedy scenes, supposed to take place in the home of Martin Meek, and his comfortable spouse, Matilda, who are the owners of two domestic pets—Spider, a cute fox terrier dog, and a cat called "Mr. Booodle." In these sketches, Mr. Meek tells his wife the news of the day, all the funny incidents he meets with, and they end up by listening-in to Farmer's.

On a recent Friday night, I presented the tenth of the Martin Meek series, whilst Mrs. Alexander and some friends listened-in; but no sooner had the announcer completed his work, than the dog, Spider (our pet), who had been sleeping peacefully on a "humpty" before the fire, suddenly jumped up and barked most furiously, rushing about the house in search of his master, whom he had heard whistling and calling his name through the loud speaker. Eventually he took notice of the visitors sitting around the loud speaker, and as if he realised what was happening, looked at them in a most disgusted manner, as though he would like to say, "Well, have you ever been had?" then turned tail and walked back to his humpty and shut his eyes, but he continued to snort his disapproval till his master returned home, just before midnight, when Spider was swiftly consoled.

Yours, etc.,

SCOTT ALEXANDER.

Rose Bay.

THE DEAF HEARD.

Dear Sir,—I have just made a wonderful discovery. I am partially deaf and have never been able to enjoy music since an accident some years ago. At a friend's house the other day, I tried on the headphones and heard perfectly. Can this be explained, or is it a miracle?

Yours, etc.,

Ballarat.

W. BURDEN.

Sunday Programmes

in order to give full rein to the controversy over the nature of the Sunday Broadcasting Programmes without crowding out the usual Safety Valve letters, it has become necessary to deal with them under a separate heading. Readers are invited to add their views to those already expressed.



HOWLERS.

Dear Sir,—I have noticed with reference to Sunday programmes. Personally, I hate them, everywhere you tune in the howlers are at it. Now while I detest it, yet I think that there are a majority who look forward to these Sunday services, and I have taken orders for sets for this very purpose alone. To get over the difficulty, I tune in to Wellington at 7 p.m., or Auckland, and enjoy a good programme till they close down. By that time the parsons are about done up, and I proceed to take my choice of what the "Aussie" stations have to offer. No matter how we yell, the Sunday programmes will continue, and in view of this we should thank our lucky stars it only comes once a week. I find the above remedy works well, and have entertained our friends on Sunday nights to satisfaction with no interference from Clergymen.

I have the loan of some back numbers of "Wireless Weekly" and notice repeated complaint of 2BL and 2FC's transmission, I have not the slightest complaint to make on my station except occasional fading with 3LO, which is only annoying. My aerial is 90-ft. high, I have a good location, and a good 5-valve Neutrodyne set.

Yours, etc.,

G. WALLACE.

c/o A.M.C. Store, Cooranbong.

MEN OF THE WEST.

Dear Sir,—Please allow me space to voice my appreciation of the ideas of J. W. Priestly ("W.W.," 16/9/27). I agree that there is not a superabundance of religion in the programmes. What a pity we cannot transplant J. C. Bassett from his city home to a parched, sunbaked, crab-hole part of the country, such a part where Sunday is like any other working day from dawn to sundown, where men are attending to the feeding and care of starving stock and enjoy the church services during the Sunday evenings. Put J. C. Bassett and his hand there, and he would not stick it one week, and yet he begrudges men and women of the sun-scorched west, their only means of a religious service on Sunday.

G. NIXON.

UNBOUNDED PLEASURE.

Dear Sir,—My husband (74) and I (70), unable to go to church, get unbounded pleasure in the Sunday programmes as they are. There is something for everybody, and only ignorant, narrow-minded, or selfish people would have them changed. We love to listen to all Sunday programmes.

Yours, etc.,

MRS. J. J. SHUTTLEWORTH.

Ryde.

EIGHT MILES FROM CHURCH.

Dear Sir,—Myself and family enjoy the wireless entertainment very much, but there is one thing we don't appreciate, and that is the comment of Mr. Jack Blair on church services. We live eight miles from our nearest church, and the church services over the air are quite a boon to us, for once the church services are over, we generally close down and nick off to bed. Next Sunday we are to have the extreme pleasure of listening-in from Brisbane to one of our one-time vicars.

Yours, etc.,

Winegrove.

GEO. REEVES.

HARANGUES.

Dear Sir,—Regarding this controversy, I may say that many friends "drop in" on Sunday evening, but invariably the wireless is shut off, by consent of all till 8.30 p.m., or so. The common verdict (and many of my friends, of all creeds, are as religious as those who make most fuss), is that such a plethora of services and harangues makes it very uninteresting.

Yours, etc.,

FRED JOHNSTON.

Orange.

AS THEY ARE.

Dear Sir,—I vote to leave the Sunday services as they are, as many people living out in the back parts, where churches are few, must enjoy the churches of the city, and some might have a set that they cannot pick up 2FC and 2BL both in daylight, then it is right for both stations to have church. What I do like is from 2BL children's service, from Newtown Congregational Church, and at night from 3LO St. Paul's Cathedral, Melbourne.

Central Titha. F. W. REYNOLDS.

Result of First Hundred.

Of the first hundred opinions received, 47 were from listeners who, for reasons such as distance, home duties, etc., are unable to attend church. The outstanding feature of the voting was the large number (67) in favour of the broadcasting programmes as given at present. Of these 19 were also in favour of increasing the number of religious items in the Sunday programmes, bringing the total number in favour of this suggestion to 86. Seven votes were cast in favour of religious addresses instead of church services and 11 in favour of more sacred music. Several voted in favour of both changes.

Only eight votes were cast in favour of the elimination of all religious matter in the programmes and eight in favour of decreasing the number of religious items in the programmes.

The above figures, however, cannot be taken as a final indication of the entire. Many hundreds of votes are certain to be counted and no doubt there are many hundreds more to come in.

Send yours in now. It should bear the inscription, "Sunday Programmes."

- | | |
|--|--------------------------|
| (1) Are you in favour of eliminating all religious matter from the broadcasting programmes? | <input type="checkbox"/> |
| (2) Are you in favour of the Sunday broadcasting programmes as given at present? | <input type="checkbox"/> |
| (3) Are you in favour of increasing the number of religious items in the Sunday broadcasting programmes? | <input type="checkbox"/> |
| (4) Are you in favour of decreasing the number of religious items in the Sunday broadcasting programmes? | <input type="checkbox"/> |
| (5) Are you in favour of any of the following changes in the present Sunday broadcasting programmes? | <input type="checkbox"/> |
| (a) Religious addresses instead of church services. | <input type="checkbox"/> |
| (b) More sacred music. | <input type="checkbox"/> |

IMPORTANT: Indicate by means of a cross, if regular weekly religious services, which you might attend, are through any reason such as distance, home duties, etc., not available to you.

The History of Radio for the Beginner

IN theory radio is old, in practice, it is still very young. Over eighty years ago Joseph Henry demonstrated at Princeton that under certain conditions electrical effects are oscillatory, or vibratory, and that these oscillatory effects can be transmitted over considerable distances. Others studied these effects. Numerous experiments were conducted. Decades later, Professor Heinrich Hertz, of Germany, demonstrated in a striking manner how the discharge of an electrical condenser sets up invisible waves, and how these waves can be detected several feet distant. That was in 1887. Several years later, Professor Righi, of Italy, undertook the study of Hertzian waves.

In Righi's laboratory there chanced to be a young student named Marconi, who became intensely interested in the work. He saw a possibility of applying these invisible or Hertzian waves to telegraphy without wires. Soon Marconi was conducting extensive experiments on his father's estate. From a few feet he soon advanced his wireless jumps to miles, using an upright wire and ground connection at the transmitting and receiving ends. From a laboratory experiment, Marconi's efforts passed over to the commercial stage mainly in England. Year by year Marconi spanned greater distances, while numerous steamships were equipped with wireless apparatus to work in conjunction with land stations. By 1907 Marconi succeeded in spanning the vast Atlantic, transmitting signals from England to Newfoundland and laying the foundation for world-wide wireless.

By this time many scientists and technicians had been attracted to the virgin field of wireless communication.

Originally the invention of Marconi, wireless communication now began to represent the combined efforts of many pioneers. Thus an Englishman, Sir Oliver Lodge, Dr. M. I. Pupin, an American, and several others contributed the principle of tuning without which wireless communication would be impracticable. Another Englishman, Professor Fleming, contributed the basic vacuum tube which was later developed by the American, De Forest, and ingeniously applied by the young American student Armstrong. Vacuum tube improvements owe their conception to many American technicians led by Dr. Irving Langmuir, of the General Electric Research Laboratory,

From a Talk delivered from 5CI.

of transmission. In due course, the Westinghouse tests included the Alexanderson, another American, developed a remarkable generator known as the Alexanderson alternator, which made possible reliable and economical radio communication over great distances. A variation of wireless telegraphy first tried out two decades ago by the Danish Poulsen made it possible to transmit the spoken word instead of the dots and dashes of the telegraph code. Up to the world war, however, wireless telephony was crude and impracticable, but the remarkable technical advances made during the trying days of conflict soon placed wireless telephony on a practical basis. Indeed, the Atlantic was experimentally spanned by wireless telephony in 1916 by American telephone engineers, and by the end of the war wireless telephony was available for reliable communication over considerable distances and even on aircraft.

In 1920 the Westinghouse engineers conducted a series of experiments with wireless telephony from a laboratory in East Pittsburgh. Wireless amateurs then possessing receivers for the purpose of listening

to dot-dash messages were asked to listen in on the wireless telephone experiments and report on the quality transmission of phonograph records and the novelty of talks and music coming over the air soon caused many laymen to buy and install inexpensive radio receivers. And having created a large audience for its experimental transmission, the Westinghouse organisation soon felt duty bound to place its experiments on a schedule basis. Singers and speakers were now introduced in place of phonograph music. And radio broadcasting came into existence with a rapidity of growth that stands without parallel. From a single experimental station, radio broadcasting grew to hundreds of stations dotting the entire country and from the crude phonographic concerts of the early days, radio broadcasting has grown into a national auditorium wherein the talents of the world's greatest artists are presented to an audience running into the tens of millions. In England very similar happenings took place and a single experimental station, under the control of the army, which sent out programmes about three times a week, gradually grew into the vast organisation called the B.B.C., or British Broadcasting Company, which has lately been placed under Government control, and has become an important public service. Practically every large centre has its station, and there, in addition to broadcasting, radio is used as a means of communication between far distant parts by means of the morse code, and an outstanding example of this is seen in our beam wireless system between Australia and the Old Country.

This service will enable messages to be sent without the aid of cable under the ocean and should prove a valuable means of communication in time of war.

In Australia, broadcasting is not very old, and as yet is not so popular as in other countries, but the time will soon arrive when it will be as common to see a wireless aerial on a house as the telephone wires. At a not so far distant date television will pass from its experimental stages, and seeing as well as hearing by wireless will become an accomplished fact. All the wonderful advances in radio have taken place in a comparatively short period of approximately 30 years, and it is a brave man who will attempt to tell us what another 20 years will bring forth.

Queensland Readers Note.

Copies of the issues of "Wireless Weekly" prevented from circulating in Queensland during the recent Railway Strike are now available.

They are—

SEPTEMBER 9th—Containing Short Wave Adapter.

SEPTEMBER 16th—Containing Harkness Reflex Receiver. How to tune in PCJJ.

SEPTEMBER 23rd—Containing Universal Four Valve Receiver. Adding a stage of Radio to the Reinartz.

It's All in the Air

Coming Features in the Broadcasting Programs

FRANK HUTCHENS, noted pianist, is giving a series of solo and two pianoforte recitals from 2FC, in association with Lindley Evans. He will play solos on Friday night, 23rd September.

ORPHAN'S WAIL: The "Wail," of course, is a misnomer, as listeners will testify, after the performance from Warringah Hall, on Eight-Hour Night, which was broadcast by 2FC. It was an enjoyable and well-organised programme.

CLEVER INSTRUMENTALIST: Miss Sophie Lashmore, who is appearing regularly at 2FC studios, is an instrumentalist of more than ordinary ability. Her performance is always of the same high standard, and listeners welcome her name on the programme. She is playing on Monday night, 3rd October.

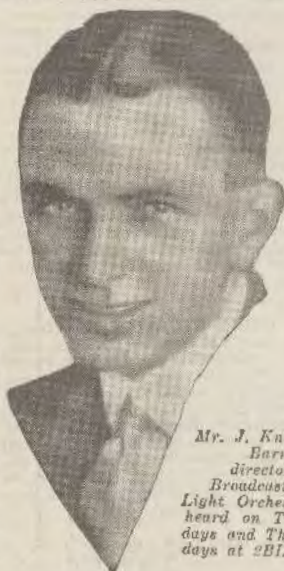
"THE BEGGAR'S OPERA": Gay's classic ballad opera, rearranged for modern production by Frederick Austin, the noted English composer, was given in tabloid form by Peter Gawthorne and Zillah Bateman from 2FC studio, on Sunday night, 25th September. This famous opera ran for three and a half years in London, under the direction of Nigel Playfair and Frederick Austin.

MR. JAMES HARR, Scottish member of the House of Commons, recently arrived in Sydney, will speak from the Lyceum, on Sunday afternoon, 2nd October. The address will be broadcast by 2FC.

"THE SCARLET PIMPERNEL": Excerpts will be taken from Baroness Orczy's famous novel by members of the H. W. Varna Company, at 2FC studio on the evening of Wednesday, 28th September.

DAVID CRAVEN, who listeners will remember won the Radio Voice Competition in Melbourne, proposes to break new artistic ground in America, at the end of the year. He will make regular appearances at Studio 2FC prior to his departure, and will sing on 27th September.

ON FRIDAY, October 7th, special arrangements have now been completed by Studio 3LO Melbourne for Mr. Ernest Mitchell and his celebrated Regent Theatre Orchestra to broadcast during the lunch hour. This Orchestra is already favourably known to hundreds of Listeners as forming one of the most attractive features of the performance at the Theatre, and Listeners who have not yet had an opportunity of hearing this delightful musical combination, have a great treat in store.



Mr. J. Knight Barnett,
Director of
Broadcasters' Light Orchestra,
heard on Tuesdays and Thursdays at 2BL.

BAND CONTEST: Transmissions will be taken by 2FC from the band contest to be held at the Royal Agricultural Showground, on 29th and 30th September. Listeners are just as enthusiastic as the competitors, in this annual competition, and the event is looked forward to with interest.

HARRY WHYTE, one of the most brilliant jazz pianists in Sydney, is appearing with 2FC at the present time. Music lovers—and by "music" lovers we mean, of course, those who appreciate good music—are just a little inclined to "tolerate" jazz pianists, but one and all are invited to listen to Mr. Whyte on the evening of 1st October, and then pass an opinion.

CHORAL MUSIC: It is generally accepted that choral items broadcast well, and are consequently well to the fore in popular favor. The Sydney Harmonic Society were broadcast by 2FC on Monday night, 26th September, under the direction of Mr. William Bourne. The programme was well chosen, and rendered excellently.

DANCE MUSIC: The New Wentworth Symphonic Dance Orchestra, under the able direction of Mr. Cyril Kaye, will provide the wherewithal for trippers of the light fantastic on Thursday night, 29th September, so get together, jazz devotees, and take advantage of this opportunity to arrange private dances to radio music. The orchestra will be broadcast by 2FC.



Beppie de Vries and a party of artists broadcasting from 3LO.

Philcos are Aristocrats among Batteries.

"SPORT OF KINGS": The 2FC racing commissioner will let listeners know how the aristocrats of the turf are shaping, in their final prolops at Randwick, at 5 a.m., on Thursday, 29th September. It's early, certainly, but doubtless readers are conversant with the old adage regarding the early bird—and it isn't worms they are going to catch by listening to 2FC's popular racing man. The Spring Carnival has been covered very comprehensively, and a special resume of each of the four principal meetings will be given.

"RADIO REVELLERS": Headed by the Chief Reveller, Laurence Halbert, and assisted by Gladys Finister, Wally Baynes, Charles Laurence, Harold Hickey and Shirley Cooke, will amuse 2FC listeners on Tuesday, 27th September. Readers are reminded that 2FC welcomes criticism, as well as appreciation, and if they have any suggestions to offer, let them be made to the station, as well as their personal friends.

SO POPULAR have the talks of the mysterious "Brother Bill" at 3LO become that it has been found necessary to print them to satisfy the many thousands of requests from listeners. The pamphlet containing the first talk has long since been exhausted, but a few of the second and third talks are available, and may be obtained from 3LO. A stamped addressed envelope should be forwarded by those desiring the pamphlet sent by post.

LIKEWISE THE POPULAR FRIDAY night talks at 3LO by Mr. H. Kingsley Love have had to be published in pamphlet form. The crystal set circuit was sent out in thousands, and the one and two valve circuits have proved exceedingly popular. There are still a few available together with the talks on "How to construct a Battery Charger" and "A Step-Down Transformer." Another talk on a 3-valve set is shortly to be added to the list and anyone desiring copies of the pamphlets may obtain them from 3LO. A stamp must be sent to cover postage.

CAN YOU IDENTIFY a car by the beat of its engine? One day recently Broadcasting Station 5CL, Adelaide, gave motorists an opportunity of trying out their aural abilities. A number of different makes of cars—from Fords to Rolls Royces—were lined up in a city garage, and the sound of engines in each case was transmitted to listeners. Prizes of £3, £2, and £1 were offered for listeners who gave the correct lists of the cars broadcast in their proper order.

Wireless Waves and Walls

How radio energy passes through solid and opaque objects simply explained for the novice.

TO many people one of the greatest of all mysteries in connection with wireless is to be found in the fact that the waves which bring in energy from a distant broadcasting station can pass through the solid bricks and mortar of the walls of a house. A frame aerial is in use in a room; the loud-speaker is reproducing the sounds that occur in a studio possibly hundreds of miles away. Clearly energy must pass through the walls to reach the frame; but how can this possibly take place?

One of the chief reasons why the passage of wireless waves through the ether or through solids is so mysterious to the layman is that they produce by themselves no effect upon any of our senses. Light, heat, and sound are all forms of wave-borne energy, light and heat being due to ether waves and sound to air waves. We find nothing very perplexing about any of them, since with the aid of the eye, the surface nerves, and the ear, they produce sensations with which we are perfectly familiar. Light and heat are in fact the only two forms of energy conveyed by ether waves that produce direct effects upon our senses; of the others we should know nothing were we not able to detect them by means of apparatus of some kind.

Yet all ether waves are similar. All travel with the same great speed of 186,000 miles a second, all consist of a series of undulations, which we may regard as crests and troughs, all, once they have been started, continue to travel indefinitely. The only difference between the various kinds of ether waves lies in their rate of undulation. The most rapidly vibrating waves that we know are those produced by radio activity, which give rise to gamma rays. Next to them come X-rays. Though both of these produce no sensation and are detectable only by means of the fluorescent screen or the photographic plate, they have destructive effects upon living tissues. If the speed of vibration is reduced to 3,000 billions a second the energy conveyed takes the form of ultra-violet rays, which are again imperceptible, though the impertinence of their effects upon health is widely realised. Somewhat slower than those causing ultra-violet rays are waves which give rise to the sensation that we know as light. A further reduction in the rate of vibration produces heat waves, and below these come wireless waves, which are the most

slowly vibrating ether waves that we know. Their frequency may range between 10,000 and 300 millions a second.

We find nothing puzzling in the fact that light waves pass through the glass of our window panes; yet glass is just as much a solid as a wall of bricks and mortar. Scientists have, however, shown us recently that ordinary window glass is not transparent to the health-giving ultra-violet rays. We can, perhaps, grasp most easily some of the mysterious properties of ether waves by means of the idea of transparency or opacity. No substance, probably, is entirely opaque to all kinds of ether waves; to waves of certain frequencies all are transparent or semi-transparent.

Thus the black paper in which a photographic plate is packed is opaque to light but not to X-rays. To X-rays of the kind used in medical work skin and muscle are very nearly transparent, while bone is virtually opaque. Lead glass, though transparent to light waves, is opaque to X-rays; screens of this material are, in fact, used to protect operators from burns. Glass is also semi-opaque to heat waves, as we may discover by using a glass fire-screen.

We are accustomed to associate heat with light, and vice versa, since the two kinds of waves which convey them usually travel together. It is, however, quite possible to separate the one from the other and to produce cold light or dark heat. If a flat bottle filled with a certain chemical solution is placed in the path of a sunbeam it casts a shadow, since its contents are opaque to light. In this shadow a burning glass placed so as to focus the invisible heat rays, to which the solution is transparent, upon the head of a match will cause it to ignite. By filling the bottle with another solution we can cause it to cast a "heat shadow," which is, of course, invisible. In this shadow we may focus a point of brilliant light on to the head of a match without causing it to catch fire.

In just the same way certain substances are opaque to wireless waves, while others are transparent. Speaking generally, materials which are bad conductors to electricity allow them to pass and are transparent to them, while good conductors are opaque. Wireless waves thus pass almost unbindered through stone and brickwork, though a thin sheet of metal acts as a complete barrier.

Resistance Capacity Coupling.

IN the early days of broadcasting one of the most frequent sources of distortion in wireless receivers was the audio-frequency or low-frequency amplifier. This was usually of the type employing transformer coupling between successive valve stages, and these transformers were not specially designed to amplify to an equal extent electric currents of any frequency within the audible range. When an improvement in the quality of the reproduced speech or music was required, an amplifier was used in which the valves were coupled together by a combination of a resistance and a capacity. The chief drawback of such an arrangement was that the amplification per valve thereby obtainable was only about one-third of that which could be secured when transformer coupling was employed.

At a later date, however, the performance of transformers, as regards the production of distortionless amplification, was investigated in some detail, and a great improvement was produced, which, together with the greater amplification obtainable, restored the transformer type of coupling to favour. The best types of inter-valve transformers obtainable to-day, when used with the improved valves which have been developed concurrently, give a performance which is practically uniform, except at the very low end of the musical scale. It was thus considered, up to a very short time ago, that the use of resistance-capacity coupling was only justified in exceptional cases when the number of valves and the proportionate expense could take second place in relation to perfection of results desired.

Still more recently, however, an important change has taken place in the technique of resistance-capacity coupling in valve amplifiers. This change has followed the discovery that very uniform amplification at musical frequencies is obtained when the value of the resistance previously employed is increased about ten times to its present-day value of about one million ohms. Accompanying this increase in the resistance special valves have been designed and produced which have a much higher amplification factor than those formerly employed. As a result, therefore, it is now possible to obtain an amplification with the resistance-capacity type of coupling, which is of the same order of magnitude as that obtainable with transformer coupling, using the same number of valves in each case.

A detailed study of the amplification obtained with valves coupled with a resistance-capacity arrangement in

An Appreciation.

Facing, as we do, the impossible task of pleasing everyone, we may perhaps be excused for printing the following lines from an appreciative correspondent who appears to have some (iron for more or less didactic verse combined with a belief that English is to be ultimately the world's language. The writer's suggestion that B.L.O. winds, through its announcements, some influence in the direction of improving the average Australian's rendering of English, is most agreeable to us, for we are not very human, and we like to know we please.

The inconsequential critic—and the genius isn't rare—
Seems to vent on broadcast programmes an unnecessary sharo

Of his penchant for fault-finding. So I
Leave, sirs, take my pen, and
To express, in form of verse, some things I've thought and thought again.

I'm a stop-home sort of bloke, for
Working men can't travel much,
And ain't to be expected we can keep
Ourselves in touch
With the way, we're often told, the
Some-day world-wide British tongue
Is correctly to be spoken—our way's
Said to be all wrong!

We've a horrid nasal accent, 'sunt we
Sound as oot.

Other vowels too we mangle, so they
Say, with that, no doubt
But the blokes we like and work beside
Talk pretty much the same,
Each his mate can understand—and,
After all, ain't that the game?

Of those critics—and all tourists!—who
Abuse our accent so,
Few of us take any notice, sirs. We
Needn't, for we know

That throughout the far-flung empire
Proper English isn't spoke
Anywhere in real England—ain't their
Dialects a joke?

It's in Dublin, I am told, the Isle of
Man and Inverness—
And these places ain't in England, or I
Sadly miss my guess!

You'd hear English free from accent,
Sounding just the way it ought,
"Struth, those critics nonsense one
With their 'proper English' rot."

Blokes like we can't, in the U.K. go,
Hear B.L.O.'s at hand,
And your head announcer, sirs, speaks
So that we can understand
What a different language English is
When spoken comme il faut—
French that is, for "as it should be"—
So, "Here's Luck to B.L.O."

this manner has shown that it is necessary to take certain precautions in order to obtain the best results. At the present time there does not appear to be a great deal of difference in the magnification and also in the purity of reproduction obtainable from the two types of amplification; but the resistance-capacity type has the advantage that its coupling units are somewhat lower in price than the best types of transformer required to obtain equal results.

Fading Troubles Diminished.

Following extended inquiries in Australia and overseas, the directors of the broadcasting station 3AR recently installed a new transmission plant. Important improvements were completed about two months ago, and the management is satisfied, from reports received from all States and from New Zealand, that the transmission has been improved markedly by the alteration.

At the transmission station at Essendon, the manager (Mr. R. F. Gardner) announces, a new plant of 5-k.w. capacity is operating. Apart from extensive additions to the power-generating plant and the station equipment proper, important improvements have been made in the modulating system. These include a new Western Electric SE control panel and microphone, which are the only instruments of their type in Australia, and are the latest equipment available.

Among the congratulatory messages received from listeners are letters from Gippsland and other districts in which "fading" has been marked in the past. This trouble, it seems, has been reduced greatly. Further systematic tests are to be made in other areas with the object of eliminating "fading" as far as possible. A report from Amalgamated Wireless (Australasia), Ltd., upon the improvements states that 3AR is now received at satisfactory strength in every State of the Commonwealth, and also in New Zealand.

Mr. Gardner states that close attention is being given to the arrangement of programmes, and new avenues of interest are being opened. The most recent addition to the new features has been a stamp exchange. Broadcasting stations in other countries are being asked to co-operate, so that Australian stamp collectors will be able to make exchanges to the best advantage.

EVIDENCE of the continuous growth of radio in Australia is shown by the appointment recently of Mr. James Malone as Chief Inspector of Wireless in the Postmaster General's Department. Mr. Malone has hitherto occupied the position of Chief Manager of Telegraphs and Wireless, but the duties of the latter portion of his office have recently developed to an amazing extent. Mr. Malone has been associated with wireless development since its early days in Australia.

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Loud Speaker

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Described in This Issue.

	£	s.	d.
1 Radon Panel, 14 x 8 x 3-16	0	11	8
2 Eon Centreline Condensers, .0005, 10/-	1	0	0
2 Emmco Bakelite Vernier Dials, 7/6	0	15	0
2 Certified 30 ohm. (One-hole fixing) Rheostats	0	4	0
3 Radikos R.F. Chokes, at 8/6	1	5	6
1 Wetless Reinartz Coil	0	12	6
2 Kelford Anti-vibration Sockets, U.X., at 3/-	0	6	0
1 Single Circuit Jack (Pilot)	0	2	0
1 Wetless Mica Condenser, .0003	0	1	6
1 Wetless Mica Condenser, .001	0	1	6
2 Wetless Mica Condensers, .0001, 1/6	0	3	0
1 Crescent Audio Transformer	0	13	6
1 Doz. Square Buswire	0	0	10
2 Lengths Spaghetti, 3d.	0	0	6
1 Standard Terminal Board	0	2	9

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Volume Surprising,
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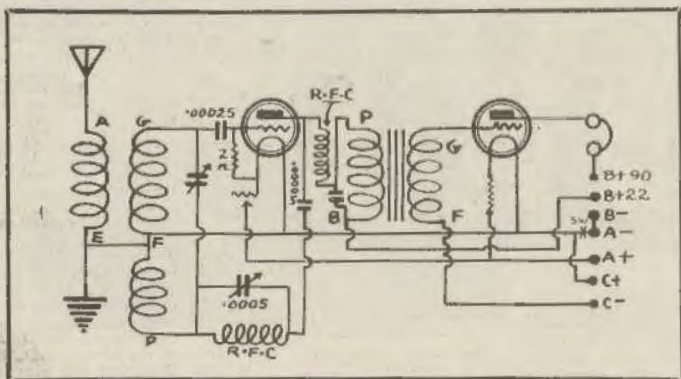
The GIANT Puremax
Loud Speaker

27in. High, Adjustable.

£2/14/-

THE "ADVANCE" SHORT-
WAVE TUNING CON. 12/
DENNER 30014

The KLOTZ Two Valve Receiver



The most Popular Receiving Circuit of European Radio Enthusiasts

TO-DAY, amongst many members of the community, there is a demand for a real good two valve set. Now, as has been explained, frequently in these pages, a set employing two valves, may take many different forms. For bringing in distant stations on the earphones, a two valve set may be built in such a way that the first valve can be used for picking up the weak oscillations arriving here from a distant station. For loud speaker work on the local stations, these types of receivers would be very disappointing, it being necessary to increase the volume of the local station to use one stage of low or audio frequency amplification.

There are quite a number of two valve reflex sets, and several have been published in "Wireless Weekly" in days gone by. But for our purpose this week, we are giving the details necessary to construct a two valve receiver for loud speaker work on the local stations. Thus, one stage of audio is being used. The circuit diagram shows this Klotz circuit to be very similar to the standard Reinartz.

Similar as it is, it is nevertheless different. The whole secret of the receiver lies in the chokes. Reference to the circuit diagram shows the circuit in which are the R.F. chokes. The choke in the plate-transformer

circuit tends to deflect the radio frequency energy through the .00005 mfd. condenser back through the other choke to the bottom of the tuned circuit.

Parts Required

Although the parts listed below and mentioned throughout the article were those actually used by us in the receiver described, it must be pointed out that it is not absolutely essential that they be rigidly adhered to.

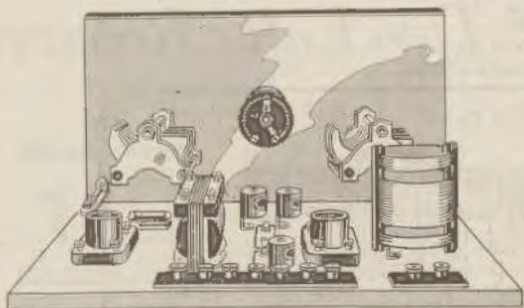
Other parts of similar quality and technical values should function quite satisfactorily.

- 1 Dilecto, Radion or other hard rubber panel, 14 x 8 x 3-16.
- 2 .0005 Mfd. Advance Little Centralign Condensers.
- 2 Eimco Vernier Dials.
- 2 30 ohms. Rheostats.
- 2 Radiokes R.F. Chokes
- 1 Wetless Reinartz Coil.
- 2 U.X. Sockets.
- 1 B.M.S. S.C. Jack.
- 1 Wetless .0003 Condenser.
- 2 Wetless .0001 Condensers.
- 1 Wetless .001 Condenser.
- 1 F.M.C. A.P. Transformer, Usual Spaghetti, Terminal Board, etc.

Read what the designer says: "The action of the circuit is not hard to understand. The presence of the R.F. choke in the plate circuit of the valve tends to deflect a large amount of R.F. energy through the circuit represented by the .00005 mfd. fixed condenser, the second R.F. choke, and its shunting variable condenser, and the bottom end of the tuned circuit.

"Now, when the variable .0005 mfd. condenser shunting the bottom R.F. choke is set to its maximum, this R.F. choke will, to all intents and purposes, be short circuited so far as R.F. energy is concerned. The impedance of the plate circuit choke is much higher than the impedance of the .0005 mfd. fixed condenser, and, therefore, most of the R.F. energy will travel round to the bottom end of the tuned circuit, and oscillation will occur.

"When the condenser shunting the bottom choke is, however, tuned to its minimum position, we then have the impedance of this choke in series with the small fixed condenser, and even if the two chokes are of equal impedance, it is obvious that the impedance of the circuit through the small fixed condenser and bottom choke will be higher than the impedance through the plate circuit choke, and less R.F. energy will get through the former circuit than the latter."



This author's explanation of the theory of the circuit will interest all. Perhaps there are some readers who cannot quite follow it. The word impedance may be interpreted in different forms. Take this meaning as simple. The impedance is the total opposition offered by a circuit to the passage of an alternating current, and given by the ratio of voltage to current, being measured in ohms. The impedance of a circuit is due to the combined effects of resistance, inductance and capacity. These three latter terms are well known to most, so there is little need to enlarge upon them.

Read over the last three paragraphs carefully if the theory of the circuit is to be understood. Refer to the circuit diagram, picking out the individual chokes mentioned. Look at the back panel wiring diagram to see the chokes. It will be seen that there are three chokes altogether used, one in the plate lead and two in series with the bottom end of the tuned circuit, these two being shunted by a variable condenser. The reason for this has been explained above. So much so.

Standard practice has been departed from as far as the grid leak is concerned. Instead of the grid leak being shunted across the grid condenser it has been taken direct from the grid to the A. battery positive wire. Again the audio transformer has a .001 mfd. fixed shunt across the primary winding—from the P. to the B. plus. This is necessary to create constant oscillations, and its inclusion is far from being wise.

Another feature of this receiver is the inclusion of a C. battery. A C. battery or grid bias battery is always advisable, for not only does it provide a saving of B battery current, it also provides a means of creating a easier and often a louder value of volume. There are some people who

do not think it judicious to include a grid bias battery where only one stage of audio is concerned, but still try it.

The construction of this two valve set is not difficult, but the effort will be well repaid. The panel calls for attention first of all. It should be laid on a flat surface and marked out as shown in panel drilling diagram. Centre punch each position, then drill all the holes with a small one-eighth inch drill, making a pilot hole. It often happens that the constructor is a bit careless in drilling by not holding the drill straight. Always be careful in this matter, as much trouble will be saved later on.

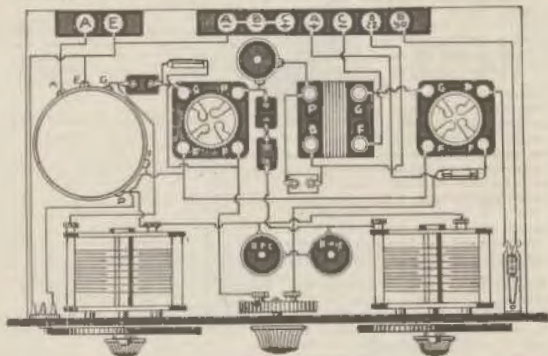
After drilling with the pilot drill, make the proper sized holes afterwards. If you are short of the correct sized drill, the next smallest drill may be used, and the tang of a file can be pressed into service to enlarge the hole. Remove all burrs on the edges with a sharp penknife. One or two holes need countersinking, so

if a rosebit is not included in your kit of tools, use a much larger drill, but be careful not to bite too deeply.

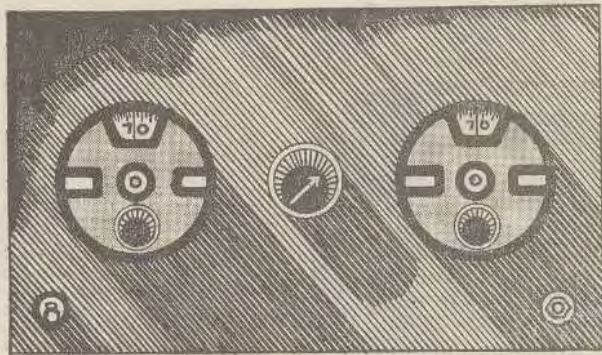
Mount the condensers and rheostat switch and jack. Remember to provide a small hole for the catch screw of the Emmeo dials. Incidentally it is worth mentioning that this catch screw should be mounted in position before anything else. This simplifies mounting the dial at a later stage.

Now prepare the baseboard by sandpapering and shellacing. When dry, fix the panel in position, and lay out the baseboard parts. Notice how the Wetless Reinartz tuner is mounted. The small mounting bracket is provided. The position for the Amperite is plainly seen in the plan view alongside the audio valve socket. This Amperite is an automatic filament control and dispenses with the need of a rheostat for this valve. A capacity of .00005 mfd. is required in the plate circuit. As a fixed condenser of this size is not available, it behoves the constructor to use two .0001 mfd. fixed condensers and join them in series, as is seen in the plan view. The two R.F. chokes in series will find a nice position near the rheostat. The other R.F. choke is conveniently located near the P terminal of the audio transformer. The rest of the apparatus may be laid out accordingly. It is always wise to adhere to the layout of any receiver unless a knowledge of the theory of radio is known. Magnetic fields are likely to spring up here and there, and as these have to be avoided, it is policy to follow the suggested layout given by the author if best results are desired.

Again while it is not always necessary to purchase the exact brands of parts specified, the valves, sizes,



There are no rivals to the Philco.



etc., should be adhered to throughout, and remember always that shoddy parts yield poorer results than quality parts. In radio to-day the old Biblical quotation is true, which states, "As you sow, so shall you reap," or words to that effect. The output is commensurate with the input, and this applies in particular to the quality of apparatus used.

The wiring requires a little thought. The constructor himself may choose busbar or point to point wiring at will. The wiring diagram shows the system of connections. Begin by linking together one F terminal of each valve socket, continuing this wire to F of the Wetless tuner, and also to one side of the battery switch. The other side of this switch take to E of the Wetless coil, and to the Earth terminal, also to the A negative terminal, B negative, and C positive terminals. Connect one side of the rheostat to one side of the Amperite, and then to the A positive terminal.

The other side of the rheostat take to the remaining F terminal of the first or detector valve socket, and also connect the remaining connection of the Amperite to the remaining F terminal of the second socket.

Link the Aerial terminal to the A of the Wetless coil, then join G of this coil to the fixed plates of the first variable condenser, and to the one side of the grid condenser, the other side of which is joined to the G terminal of the detector valve socket. To this G join one side of the grid leak, connecting the other side of this leak to the A positive wire.

The moving plates of the first condenser joins P of the Wetless tuner, and also the nearest side of the two R.F. chokes in series, and to the moving plates of the second variable condenser. Make the short connection joining these chokes in series, then join the remaining side of the chokes to the fixed plates of the second condenser, and to one side of

the two .0001 condensers in series. The other side of these condensers join to P of the detector valve socket, and to one side of the single R.F. choke. The other side of this choke connect to the P of the audio transformer. The B of this transformer link up with the B positive 22 volt terminal on the terminal board. Join a .001 fixed condenser across the P and B of this transformer.

Connect G of the audio transformer to G of the second valve socket. Now run a wire from P of this second valve socket to one lug of the jack, the other lug join to B plus 90 volts terminal of the terminal board. This completes the wiring. If bare wire is used, then unless otherwise specified, don't allow one wire to touch another. Keep the grid leads very short, and don't allow a plate lead to run parallel to a grid lead. Spagetti covered wire is good for connections. Acme Celastite being also splendid.

Check over all your work. Be sure that your soldered joints are secure. A poorly soldered joint creates trouble

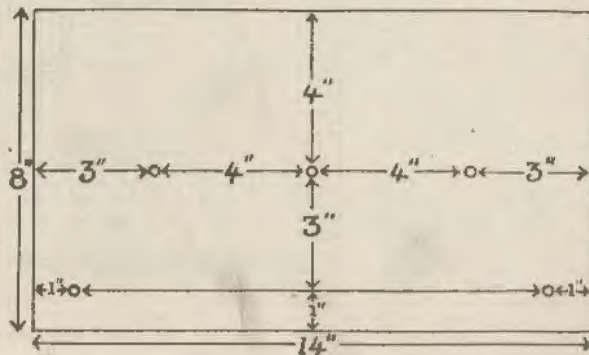
which is often difficult to locate later on. Always use a clean, nicely tinned, soldering iron, and before soldering, wipe on an old rag. A little practice will let you know just when the iron is hot enough.

Now valves are a consideration. The original receiver built by the writer, functioned splendidly on Cossor valves. A H.F. red label valve was used as a detector, followed by a black label L.F. valve for the audio stages. Both valves only consume 1 of an amp. each, so a great saving in A battery current results, without any loss of signal strength.

The detector valve was fed with 45 volts, and 90 volts were supplied to the amplifier. A grid bias of 45 volts proved ideal. The aerial used is 70 feet long, with an average height of 30 feet, the earth being the usual waterpipe.

On tuning in, a surprise was in store. At first nothing at all could be heard, but by gradually varying the tuning condensers, 2FC made its presence known. The second variable condenser provides a very smooth reaction control, its function being to vary the impedance of the choke. The first condenser tunes in the stations, and the aperiodic serial makes for selectivity. With the headphones besides the local stations, 3LO and 4QG, and 5AR were found at a nice strength. The local stations agreed nicely with the Amplion speaker, real, good strength filling the room.

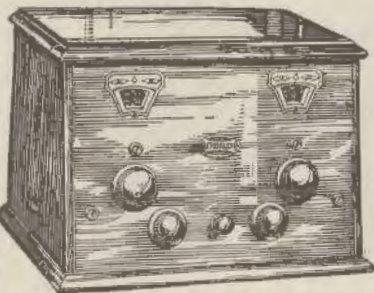
This receiver is very sharp in its tuning; the vernier dial on the first condenser is indispensable. At Murrickville, four miles from 2BI, and 17 miles from 2FC, no interference was met with from 3LO. The Wellington station 2YA could be heard faintly, but pleasantly. The reaction control is interesting, the smoothness is astounding. The circuit was devised by Heinrich von der Klotz, and on the Continent of Europe it enjoys a great popularity. It will do so here.



Recent Radio Apparatus.

CROSLLEY LOWAVE.

Broadcasting on short waves is growing in popularity daily. A number of stations are using short waves, and their regular ones simultaneously. Many listeners enjoy tuning in these short waves, which reach out greater distances and bring in music or voice considerably clearer than do the longer ones. The Crosley Lowave, used in connection with any tube radio, permits you to tune in these stations. It is provided with coils that can be quickly changed to cover the wave length range from approximately 30 to 80 metres. This Lowave uses three De Forest D.O.L.A. tubes, or their equivalent, picks up



the short wave station on its wave length and translates its frequency to one within the band of present broadcasting.

NEW MODULATING VALVE.

The Mullard Radio Valve Company, Ltd., manufacturers of the well-known "P.M." receiving valves, have produced a medium power modulating valve rated for continuous operation at 150 Watts input, suitable for anode voltages of 2000 to 4000 volts.

Several new and interesting features are embodied in the method of assembling the internal parts of the valve. For instance, the filament can be renewed when required and specially long insulation paths are provided between the electrodes.

The valve is specially designed for operation in wireless telephony transmitter circuits embodying the "Choke Control" system of modulation.

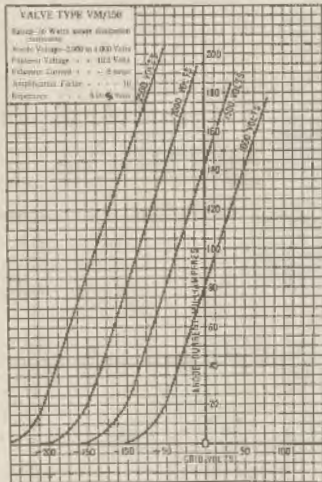
The filament voltage is 10.5 with a consumption of 4.0 amps. The internal impedance is in the vicinity of 8000 ohms.

Three of these new valves were installed at station 2UE, Sydney (Radio House), on Tuesday, 30th August, and that station has already received letters appreciating the increased clarity of their transmission.

Particulars of this valve can be obtained from the Mullard factory representatives, A. Beal Pritchett

MODULATING VALVE. TYPE VM/150.

Anode Current—Grid Volts Characteristics.

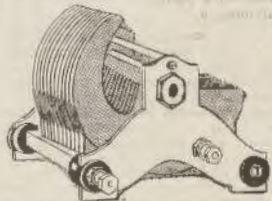


(Aust.) Ltd., Sydney and Melbourne.
 Characteristic curve is illustrated on this page.

THE LITTLE CENTRALIGN CONDENSER.

We have had recently submitted to us the latest product of the Radio Corporation of Australia—the Little Centralign Condenser. An examination revealed the excellent workmanship displayed in the manufacture. The plates, both moving and fixed, are cut to a special shape, providing straight-line frequency tuning without taking up too much space.

Each plate is cut evenly, and the spacing between the moving and fixed plate on each side is such that the



dielectric constant remains constant right around the full range of the condenser. This feature will appeal to readers who are looking for a suitable variable condenser for linking up gang fashion for such receiver as the Solodyne.

A friction bearing provides a positive contact, so essential in even the cheapest of condensers. Strong, sturdily-built terminals, to which are made the connections, are provided, thus eliminating the necessity for soldering. The capacities are correct as graded, and it is interesting to note that the minimum capacity is of a very low order, which should please the heart of the most fastidious experimenter.

Made in Australia by the people already mentioned, it is a credit to Australian manufacture. Our sample from Messrs. Fox and MacGillcuddy, of King-street, Sydney.

Mr. Kingsley E. Fleming, who has been in charge of the radio activities of Harringtons, Ltd., for the past four years, has resigned from his position as Sales Manager to enter business on his own account.

Mr. Fleming is entering upon a vacation, part of which will be spent in Adelaide, after which we expect to hear of his continued activity in radio circles.

PHILIPS CHARGERS.

Philips 1.3 amp. battery chargers being thermionic rectifiers, their main operating part is a tubular bulb with four-pin base. It contains an electron-emitting filament, which, however, is not brought to a yellow or white heat, and two plates each of which is connected to one of the two secondary windings of a transformer.

The rectifying bulb is coated with a metallic film, which hides the interior from view, but a clear spot is left at the top of the bulb, in order to permit inspection of the filament. A second bulb of similar shape acts as a variable resistance to limit the charging current. This bulb carries a three-pin base.

Both these bulbs and the transformer are mounted on a plate of insulating material, the whole being covered by a perforated casing made of aluminium.

Type 327 can charge from one to six cells of 2 volts (lead storage batteries), type 450 from one to three cells. The charging current is automatically limited to about 1.3 amp, by the regulating lamp in the rectifier.

Edison batteries (iron-nickel cells) can also be charged up to a nominal voltage of 12 V.

The charging current of 1.3 amps. makes these instruments specially adapted to radio work. Type 450 has the advantage of a lower energy-consumption (30 watts only), whereas type 327 consumes about 50 watts. On the contrary, type 450 charges a maximum of only 3 cells, which is in general quite sufficient for the average radio amateur.

RADIOKES SUPER-TUBES.

Metropolitan Electric Co., Ltd. have had manufactured to their specifications, by one of the largest valve concerns in America, a series of valves known as Radiokes. This is a quality line of good appearance, reasonable cost and proved efficiency. The types follow standard American practice as regards filament, plate voltages, current consumption, amplification factor and impedance. R 199 with UX base, R 199 with standard base, and R 201A with UX base are general purpose tubes, and function particularly well as R.F. and A.F. amplifiers and as detectors. Type R 201A is a special oscillator tube for use in modern circuits. The 112 type power tube carries a small switch mounted on the base which controls two A type filaments in parallel. If super filaments burn out the switch may be placed over to the remaining filament and the tube func-

tions as well as ever. R 200A is similar in operation to the UV200, since efficiency as a detector depends upon the presence of a gas in place of the usual high vacuum in the tube.

R 171 is intended to handle large amount of undistorted power. It may be compared with the R 112 and UX 210 tubes. It requires 135 volts plate battery to handle input voltage of 9 volts, delivering a maximum of .12 watts.

We have made practical tests of the Radiokes tubes in various circuits, and find them fully up to specifications.

THE FUND RAISED by 2BL to equip the Royal Alexandra Hospital for Children with radio has reached over £500, and a contract for the work has been let. The plans provide for a very powerful receiving set from which wires will lead to each of the 342 beds in the hospital. Reception will thus be possible at each bed, but never more than about a hundred of the child patients are in a state to listen in at one time, consequently only 114 pairs of headphones are being provided at present. There are a number of children who spend all day in the open air and a special overhead arrangement will bring the radio to their beds. The receiving set will be controlled by the medical superintendent or matron who will tune in whichever station in any part of Australia is wanted from time to time.

2BL is continuing its campaign to raise money to assist with similar equipment in country hospitals. With this object in view a "radio ball" is to be held on the evening of Friday, August 26, at the Bondi Casino. It is expected that over a thousand radio enthusiasts will forsake their sets for the evening to take part in the dance. For listeners who prefer to remain in their own homes the whole of the dance music at the ball will be broadcast by 2BL, and between dance times a number of prominent artists will contribute to the programme. Their items will also be broadcast.

A PUBLIC MEETING, convened by the Mayor, was held at Goulburn this week to consider ways and means of augmenting the fund initiated by the Goulburn "Penny Post" to provide radio equipment for the patients in the Goulburn district hospital and St. John of God Hospital. A committee was formed and various plans for raising the necessary funds were discussed. An old-time dance, held in St. Patrick's Hall, yielded £21/4, and on latest advice the funds now amount to £115/15/6. To equip both hospitals with receiving apparatus and headphones for every bed about £322 is required.

4QG'S VIGIL DURING RELAY OF PCJJ.

LIKE a sentinel on a lonely outpost—with every nerve tense and strained to hear the slightest sound—sat 4QG's engineer before the receiving apparatus installed in the station laboratory in the early hours of Wednesday morning, July 27.

His two conferees, also fired by the enthusiasm of the occasion, eagerly awaited the first sign from the engineer that PCJJ's carrier was audible. Not a word would they utter to detract from the attention given by the engineer, adorned with his beloved headgear, to his receiver.

At 1.35 a.m. an excited "I've got 'em" rent the stillness of the morning with startling suddenness, and a smile of success spread across the countenance of the man whose fingers rested caressingly upon the dials. Station 4QG had registered the first sign of PCJJ's carrier.

The morning was cold and the three officials on duty had prepared themselves for the vigil in the form of the installation of an electric heater and the provision of entablatures. But at the first sign of PCJJ all thought of gastronomical matters were completely forgotten and every attention was paid to the appearance of modulation and the gradually increasing strength of speech and music.

It was generally expected that at about five o'clock the signals would come in with sufficient volume to rebroadcast, but at two o'clock the suggestion from the engineer, "Let's try it on our transmitter as a test" was given effect to, and an enthusiastic band of three, all thought of hunger and cold banished, "tried it."

This early test was audible, and PCJJ being received on 30.2 metres, was put to 4QG's transmitter from three o'clock until 6.20 a.m.

At the conclusion of the relay, three tired but happy individuals went home ostensibly to rest, but we have it on good authority that at least one of the party tuned in the PCJJ station direct when he arrived home, and listened to that station until the signals were inaudible some hours later.

SCJ AT THE WRESTLING: South Australians are now beginning to take greater interest in the wrestling descriptions which have become so popular in other States. Saturday evening is usually devoted to what can be described as a sport evening. A full précis of sporting events throughout Australia is broadcast in addition to the wrestling match descriptions.

Million Vote Shows B.B.C. on Wrong Track.

THAT the British Broadcasting Corporation is inadequately serving its listeners, so far as catering to their preferences is concerned, seems a fairly logical assumption when one considers the results of a questionnaire which was recently filled in by over a million listeners of the B.B.C.'s programs.

"The London Daily Mail" conducted a ballot of the preferences of the listening public and received the astonishing number of 1,285,083 replies. A vote of this size can be taken as a very adequate expression of the general opinion in Great Britain, and this is how it resulted:

Variety and Concert Parties	238,483
Light Orchestral Music	179,153
Military Bands	161,013
Dance Music	134,027
Talk: Topical, Sport, and News	114,571
Symphony Concerts	78,781
Solos: Vocal and Instrumental	72,058
Opera and Oratorio	60,983
Outside Broadcasts	61,755
Short Plays and Sketches	49,857
Talk: Scientific and Informative	30,019
Glee, Choruses, Sea Chanties	30,445
Chamber Music	27,487
Reviews	27,059
Long Plays	17,576
Readings and Recitations	2,717
Free votes not recorded	4,013
	1,285,083

The tenor of the vote was, as can be seen: (1) A vote for more fun. (2) A vote for fewer features which need sustained attention. The British conclusions rather parallel those gained from a questionnaire recently sent out by an American magazine. Those who filled in this latter questionnaire had an overwhelming preference for instrumental music and a comparative indifference to plays, scientific talks, readings, and so forth. If a comparison to this questionnaire, which resulted in only one-hundredth as many replies, were fair, we might argue that the American public has a more sophisticated taste in music, since serious music, as of symphony orchestras, topped the list, but is relegated to sixth place in the British vote.

University Appeal Fund.

A substantial contribution to the University Appeal Fund was made by 2FC in the form of a popular entertainment given by the New South Wales Conservatorium Orchestra in the Sydney Town Hall on the evening of Saturday, September 23.

2FC gave a high class concert at popular prices (3/-, 2/- and 1/-), the whole of the proceeds going to the University Fund.

The entire programme was broadcast for the entertainment of listeners in their own homes. Assisting artists were, Mr. Alfred O'Shea, Australia's foremost tenor; and Miss Stella Wilson, the famous Australian soprano. Miss Wilson, who is singing in the Gilbert and Sullivan Opera Company was specially released by J. C. Williamson Ltd. in order to appear in the University concert. The Conservatorium Orchestra played compositions which appealed to the tastes of everyone, including the overture to William Tell, the prelude and introduction to Lohengrin, the Nutcracker Suite, and the Carmen Suite.

The programme attracted a full attendance at the Town Hall and from the point of view of listeners it was of unusual interest, as it was the first occasion on which a full performance of the orchestra was heard on the air.

FOLLOWING ON the great success of the productions of "The Merry Widow," and the increasing demand for further performances, another presentation of this merry Comic Opera will be given from Studio 3LO Melbourne on October 3rd. From every hand delighted listeners have sent words of appreciation, all stressing one point—either the rich humour, wonderful transmission, or the delightful singing of the principals and the well balanced chorus, but, when summed up, everyone thought the same—that the recent performances have been of quite outstanding excellence. Yet, when it is considered that well known professional artists had charge of the principal roles, and Mr. William James had trained and rehearsed the chorus, it is little to be wondered that the "Merry Widow" met with such whole hearted approval from everyone.

POLITICS BY RADIO.

THE A class broadcasting stations are strictly limited so far as politics are concerned, and the Government regulations insist that no political preferences may be shown. The only political speeches to be broadcast in the present election campaign so far were those of the leaders of the three parties, which were placed on the air by 2FC on the following dates: Tuesday, September 6, policy speech by Mr. Lang, leader of the Labor party; Thursday, September 8, policy speech of Mr. Eavin, leader of the Nationalist party; Tuesday, September 13, policy speech of Mr. Buttonshaw, leader of Country party.

There is no restriction on the B class stations (those which receive no public moneys). The Trades Hall station, 2KY, has for three years been consistently broadcasting Labor propaganda, and now that the election campaign is in full swing, the National party have arranged with the Theosophical station, 2GB, to send their Nationalist propaganda every day in the week, but Sundays. 2GB gives a talk of fifteen minutes to women electors every morning commencing at 10 o'clock, another talk to women for 20 minutes at 4 o'clock, and a half hour for electors generally at 7.30. Again at 9.45, 2GB gives another quarter of an hour on national politics. On Tuesdays and Fridays it is intended to broadcast the whole of some of the principal National meetings.

2KY's activities are between 7.30 and 8 each evening. All the principal Labor candidates are being invited to address the electors and the management of the station is challenging Nationalist speakers to debate the more important issues before electors over the air from 2KY.

ON TUESDAY, OCTOBER 4th, a programme of special musical interest will be broadcast from Studio 3LO Melbourne, for not only will Mr. Harold Elvina give a piano recital in his well known masterly style, but a studio presentation of "Il Trovatore" is to be given under the direction of Mr. Sutton Crow. As is usual on these occasions, when Mr. Sutton Crow arranges a Studio presentation of an Opera, he will be assisted by the Auburn Methodist Choir, whose work in this direction is now so well known to listeners.

RADIO

IN AUSTRALIA
& NEW ZEALAND,
Incorporating 'Sea, Land and Air'.

ARTICLES IN THE SEPTEMBER ISSUE

Who is to Pay for Better Broadcasting? An article by J. Garrick Eisenberg, of the Radio Corporation of America, who suggests that the best solution of the better broadcasting problem in Australia is the merging of the tax and toll systems of broadcasting.

The Radio Maxims of Mac. The most humorous contribution yet received from Charles D. Maclurcan.

Wireless Beams Will Make Trans-Pacific Airways Safe. Why radio is the only means of true and safe navigation for aviators. How radio could make the Trans-Pacific flight possible.

Localising the Control of Your Neutrodyne. Applying drum control to this famous circuit.

The Invicta Four. A receiver embodying the features of the Elstree Six and the Loftin-White circuits.

A Simple Crystal Receiver. Constructional data for the simplest of all receivers.

A Two Valve Reflex Receiver and An Article on Shielding.

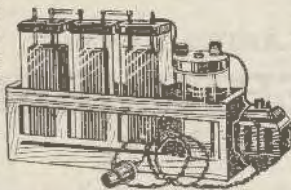
The Best Shilling's Worth in Australia

“RADIO”

1/- On Sale This Week 1/-

No More Run-Down "A" Batteries if you use the Willard "A" Battery Unit or "A" Eliminator

The Willard "A" Battery Unit is a Combined Trickle Charger and Accumulator, and is connected direct to the 240 volt A.C. Electric Light or Power Socket, which ensures your set in tune to concert pitch, at all times.



No mechanical parts to get out of order; only attention needed is a small quantity of distilled water occasionally added to the Accumulator, the same as is required with the ordinary Accumulator.

STANDARD SIZE:

Type CT130, 4V £5/-/-

Type CTR98, 8V £6/-/-

HEAVY DUTY SIZE:

Type CTR235, 4V ... £6/15/-

Type CTR336, 6V £8/-/-

No more bother in having to take your Accumulator to be recharged.

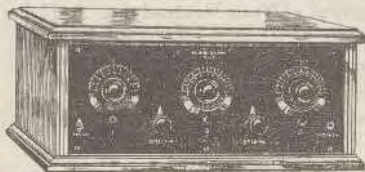
No more lost Concerts. No A.C. Hum.

SEND FOR ILLUSTRATED LEAFLET. SOLD WITH OUR USUAL GUARANTEE.

Build Your Own IV. Valve Receiver

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BROADCASTING PROGRAMMES

For the COMING WEEK

Friday, Sept. 30
2FC, SYDNEY.
 Farmer's Broadcasting Service.
 Wave Length, 442 Metres.

EARLY MORNING SESSION, 7 to 8 a.m.
MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
- 10.5 a.m.—Studio music.
- 10.15 a.m.—Sydney Morning Herald news service.
- 10.20 a.m.—Studio music.
- 10.35 a.m.—A Reading.
- 10.45 a.m.—Studio music.
- 11 a.m.—"Big Ben."
- Marching music for school children.
- 11.5 a.m.—A.P.A. and Reuter's Cable Service.
- 11.10 a.m.—Studio music.
- 11.15 a.m.—A talk on House Cooking and Recipes, by Miss Ruth Purst.
- 11.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
- 12.5 a.m.—Stock Exchange, first call.
- 12.5 p.m.—Official weather forecast, rainfall.
- 1.5 p.m.—Studio music.
- 12.10 p.m.—Summary of "Sydney Morning Herald" news service.
- Rugby wireless news.
- 12.25 p.m.—Studio music.
- 12.30 p.m.—Marching music for school children.
- 12.40 p.m.—Lorraine Jarman, soprano: "Swire Song" (De Regio).
- 12.45 p.m.—The Oak Hall Instrumental Trio.
- 12.55 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.—The Oak Hall Instrumental Trio.
- 1.25 p.m.—Stock Exchange, second call.
- 1.40 p.m.—Marching music for school children.
- 1.45 p.m.—Lorraine Jarman, soprano: "Serenade" (Gounod).
- 1.45 p.m.—Studio music.
- 1.50 p.m.—The Oak Hall Instrumental Trio.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
- 3.5 p.m.—Maysie Gilman, soprano: "Love, the Pedlar" (Garman).
- 4.1 p.m.—Fosse Brakell, contralto: "Slow, Horse, Slow" (Mallinson).
- 4.15 p.m.—Studio music.
- 4.15 p.m.—A talk on life-saving.
- 4.30 p.m.—Marching music for school children.
- 4.40 p.m.—Ephl Atholwood, mezzo: "Cherie, I love you" (Goodman).
- 4.45 p.m.—The Oak Hall Instrumental Trio.
- 4.55 p.m.—Josie Freeman, contralto: "Summer Rain" (Charles Willbye).
- 4 p.m.—William Howyer, basso.
- 4.5 p.m.—The Oak Hall Instrumental Trio.

- 4.10 p.m.—Items from the Inter-State Band Carnival (from the R.A.S. Grounds).
- 4.15 p.m.—Maysie Gilman, soprano: "Bird of Love Divine" (Wood).
- 4.20 p.m.—Ephl Atholwood, mezzo: "Fant for Today" (Harding).
- 4.25 p.m.—The Oak Hall Instrumental Trio.
- 4.35 p.m.—Fosse Brakell, contralto: "The Wild Rose" (Schubert).
- 4.40 p.m.—William Howyer, basso.
- 4.45 p.m.—Stock Exchange, third call.
- 4.45 p.m.—Josie Freeman, contralto: "A Fairy went a-marketing" (Goodhart).
- 4.50 p.m.—The Wentworth Symphonic Dance Orchestra; conductor, Mr. Cyril Kaye.
- 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.10 p.m.—The chimes of 2FC.
- 5.15 p.m.—The "Hello Man" talks to the children.
- 5.30 p.m.—Story time for the young folk.
- 5.40 p.m.—Studio music.
- 5.50 p.m.—Late sporting news.
- 6 p.m.—Market's market reports (wool, wheat and stock).
- 6.10 p.m.—Shipping news and weather intelligence.
- 6.15 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.30 p.m.—Programme announcements.
- 7.35 p.m.—Items from the Inter-State Band Carnival in connection with the Spring Fair (from the R.A.S. Grounds).
- 7.57 p.m.—"Is it your Birthday?"
- 8 p.m.—"Big Ben."
- Madame Vera Tsama, soprano: "Bird of Love Divine" (Wood) (by request).
- 8.4 p.m.—Win and Windie, English entertainers: "Ellie, Trillie and Frillie" (Win).
- 8.14 p.m.—Jack Dunno, baritone: "Mountain C. Mounie" (Collins).
- 8.14 p.m.—Items from the Inter-State Band Carnival in connection with the Spring Fair (from the R.A.S. Grounds).

- 8.30 p.m.—A talk on the Commencement of 1927, by Mr. Graham Ross.
- 8.42 p.m.—Madame Vera Tsama, soprano: "(1) "God's Garden" (Lambert) (by request) (Organ accompaniment). (2) "Lullaloo" (Pugini).
- 8.49 p.m.—Win and Windie, English entertainers: "More Unnatural History" (Win).
- 8.57 p.m.—Jack Dunno, baritone: "Sing, Happy Birds" (Ludie).
- 9 p.m.—"Big Ben." Latest weather forecast.
- 9.1 p.m.—Kitty Elliott, contralto: "His Loves" (Wendling).
- 9.4 p.m.—Madame Vera Tsama, soprano: "Ah, Love, but a Day" (Seach).
- 9.8 p.m.—A Theatrical Transmutation.
- 10.20 p.m.—From the Studio: Kitty Elliott, contralto: "As All the Leaves" (German).
- 10.24 p.m.—The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
- 10.30 p.m.—Jack Dunno, baritone: (a) "Letters from Mary O'Mearna" (Collins). (b) "Night Nursery" (Arabade).
- 10.38 p.m.—The Wentworth Symphonic Dance Orchestra.
- 10.48 p.m.—Kitty Elliott, contralto: (a) "Twice one are two" (Western and Lee). (b) "Hey! Beans are only Kailuwa" (Meyer).
- 10.55 p.m.—Late news and announcements.
- 11 p.m.—"Big Ben."
- The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
- 11.30 p.m.—National Anthem.
- Close down.

2BL, SYDNEY.
 Broadcaster's Ltd.
 Wave Length, 353 Metres.

Friday

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 10.30 a.m.—J.P.O. Clock and chimes. Musical programme from the Studio.
- 10.40 a.m.—News from the "Daily Telegraph" Fleet.
- 10.50 a.m.—Musical programme from the Studio.
- 11 a.m.—G.P.O. Clock and chimes. Announcements.
- 11.5 a.m.—Musical programme from the studio
- 11.15 a.m.—Talk on "Vigaro" by Miss Gwen Varley. Broadcaster's Women's Sports Association.
- Social Notes—Reply in correspondence by Mrs. Jordan. Talk on "Feeding the family" by Mrs. Jordan.
- 12 noon—G.P.O. Clock and chimes. Special Gossip Forecast and weather news.
- 12.3 p.m.—Brunswick Pentatone Musical recording.
- 12.45 p.m.—Information, Mails, Shipping, and port directory.
- 12.18 p.m.—Rain in mail by air/airlines.
- 12.20 p.m.—Fruit Market report.

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

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

2BL—Broadcasters' Ltd., Sydney, wavelength 353 metres, power 3000 watts.

2GB—Theosophical Broadcasting Station, Ltd., Sydney, wavelength 330 metres, power 3000 watts.

2KY—Trades and Labor Council, Sydney, wavelength 280 metres, power 1300 watts.

2LW—Otto Saevel, Sydney, wavelength 255 metres, power 500 watts.

2MR—Muehler Bros., Bathurst, wavelength 275 metres, power 250 watts.

2LE—Electrical Utilities Supply Co., Sydney, wavelength 228 metres, power 250 watts.

2BR—Burgin Electric Co., Sydney, wavelength 310 metres, 100 watts.

2HLE—H. A. Douglas, Newcastle, wavelength, 382 metres, 100 watts.

Burgess Went over the Pole with Byrd.

12.22 p.m.—Vegetable Market report.
 12.24 p.m.—Londry Metal Market report.
 12.30 p.m.—Dairy and Farm Produce Market report.
 12.50 p.m.—G.P.O. Clock and chimes.
 Foreign Market report.
 12.52 p.m.—Fish Market report.
 12.54 p.m.—Rabbit Market report.
 12.56 p.m.—News from the "Sun."
 12.45 p.m.—Billers' Instrumental Quartet—direction—Carl Wood.
 1.30 p.m.—G.P.O. Clock and chimes.
 Talk to children and special entertainment for children in Hospital.
 2 p.m.—G.P.O. Clock and chimes. Close down.

AFTERNOON SESSION.

Racing information broadcast immediately after each race by courtesy of the "Sun."
 1 p.m.—G.P.O. Clock and chimes.
 1.15 News from the "Sun."
 1.15 p.m.—Civil Service Stores Trio—direction—Miss de Courcy Bremer.
 1.30 p.m.—G.P.O. Clock and chimes. News from the "Sun."
 1.40 p.m.—Country Women's Session—its objects, by Miss Wilkinson.
 2.00 p.m.—News from the "Sun."
 4 p.m.—G.P.O. Clock and chimes.
 Civil Service Stores Trio.
 4.15 p.m.—Serial Story.
 4.25 p.m.—Musical programme from the studio.
 4.50 p.m.—News from the "Sun."
 4.55 p.m.—Resume of night's programme.
 4.57 p.m.—Racing Resume.
 4.59 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.
 Children's Programme.
 6.30 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 the "Sun."
 Producers' Distributing Society's Fruit and Vegetable Market report.
 Stock Exchange reports.
 Grain and Fodder report (Sun).
 Dairy Produce report (Sun).
 7.35 p.m.—Country News from the "Sun."
 7.50 p.m.—Talk by Mr. Gregory on the N.R.M.A.
 7.59 p.m.—Talk on "Garden-folk Science" by Mr. Cooper, Park Superintendent City Council.
 8 p.m.—G.P.O. Clock and chimes.
 Broadcasters' Topical Chimes.

8.5 p.m.—Broadcasters' Light Orchestras under the direction Mr. J. Knight Barnett.
 8.15 p.m.—Miss Bertha Waters, soprano.
 8.20 p.m.—Mr. H. W. Wylie, concertina player.
 8.27 p.m.—Mr. William Green, tenor.
 8.34 p.m.—Dorothy Manning and Harry Graham in humor and harmony.
 8.40 p.m.—Cec. Morrison and his Glomchassers broadcast from the ballroom of the Bondi Casino.
 8.50 p.m.—Weather report and forecast by courtesy of Mr. G. J. Marks, Govt. Meteorologist.
 9 p.m.—G.P.O. Clock and chimes.
 9.1 p.m.—Broadcasters' Light Orchestras will talk on football.
 9.26 p.m.—Miss Bertha Waters.
 9.33 p.m.—Cec. Morrison and his Glomchassers broadcast from the ballroom of the Bondi Casino.
 9.43 p.m.—Mr. H. W. Wylie.
 9.50 p.m.—The Sporting Editor of the "Sun" will talk on the prospects of Saturday's racing.
 10.10 p.m.—Broadcasters' Light Orchestras.
 10.20 p.m.—Mr. William Green.
 10.27 p.m.—Cec. Morrison and his Glomchassers broadcast from the ballroom of the Bondi Casino.
 10.37 p.m.—Resume of following day's programme.
 10.41 p.m.—Cec. Morrison and his Glomchassers broadcast from the ballroom of the Bondi Casino.

10.46 p.m.—"Sun" news service.
 10.54 p.m.—Cec. Morrison and his Glomchassers broadcast from the ballroom of the Bondi Casino.
 11 p.m.—G.P.O. Clock and chimes.
 National anthem.

2GB, SYDNEY

Theosophical Broadcasting Service.

Wave Length, 316 Metres.

Friday.

MORNING SESSION.

8 a.m.—Music.
 9.5 a.m.—Cherry Talk.
 9.15 a.m.—Music.
 9.20 a.m.—Psychological Class.
 9.40 a.m.—Music.
 9.50 a.m.—Health Talk.
 10 a.m.—Close down.

AFTERNOON SESSION.

2.30 p.m.—Music.
 3.00 p.m.—Address by Professor E. Wood.
 3.22 p.m.—Music.
 3.40 p.m.—Address, National Association.
 4.22 p.m.—Music.
 4.29 p.m.—Close down.

NIGHT SESSION.

7 p.m.—Music.
 7.8 p.m.—Address, Mrs. H. Hanston.
 7.15 p.m.—Musical Instrumental Trio.
 7.30 p.m.—National Association N.S.W.
 8 p.m.—Instrumental Trio, Monica Harder, Marjorie Lang, Ada Brock.
 8.10 p.m.—Cello Solos, Marjorie Lang: 1. "Concerto in A. Minor" (Geltzenmann).
 8.18 p.m.—Talk on Sir Edward Elgar, illustrated by his music, arranged by Thelma Campbell.
 8.40 p.m.—Violin Solos, Inez Lang: 1. "Spheros" (Alsty).
 8.45 p.m.—Songs by Clarence Barking: 1. "The Aspen Tree."
 2. "Two Grenadiers" (Schumann).
 9 p.m.—Professor Ernest Wood.
 9.15 p.m.—Instrumental Quartet: Dan Sealy, Monica Harder, Ade Brock, Marjorie Lang.
 9.45 p.m.—National Association.
 10 p.m.—Close down.

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

31.0—Broadcasting Company of Australia, Ltd., Melbourne, wavelength 371 metres, power 5000 watts.
 3A.E.—Associated Radio Co., Ltd., Melbourne, wavelength 618 metres, power 5000 watts.
 4G.C.—Queensland Radio Service, Brisbane, wavelength 255 metres, power 5000 watts.
 5C.L.—Central Broadcasters' Ltd., Adelaide, wavelength 295 metres, power 6000 watts.
 6W.—Western Farmers, Ltd., Perth, wavelength 1230 metres, power 6000 watts.
 7Z.L.—Tasmanian Broadcasters, Ltd., Launceston, wavelength 365 metres, 3000 watts.
 2UB.—Brisbane Business and Technical College, Melbourne, wavelength 256 metres, power 200 watts.
 8T.Z.—O. J. Nilson & Co., Melbourne, wavelength 219 metres, power 100 watts.
 4GR.—Gold Radio Electric Service, Townsboro, Queensland, wavelength 254 metres, power 100 watts.
 8EA.—Sport & Radio Broadcasting Station, Adelaide, wavelength 233 metres, power 1000 watts.
 3DN.—3DN Pty. Ltd., Adelaide, wavelength 215 metres, 200 watts.

2UW, SYDNEY

Sandel Radio, Ltd.
Wave Length, 267 Metres.

Friday.

MORNING SESSION.

9 a.m.—News Shipping, Mails, Musical Items.
 9.45 a.m.—Women's Special.
 9.49 a.m.—Resume of forward programme.
 10 a.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Musical Items.
 2.50 a.m.—Resume of forward programme.
 3 p.m.—Close down.

EVENING SESSION.

5 p.m.—Musical Items.
 5.50 p.m.—Resume of forward programme.
 6 p.m.—Close down.
 7 p.m.—Where to go.
 7.10 p.m.—Studio Items.
 7.50 p.m.—Mr. Greenwood:
 Class to Metropolitan.
 7.45 p.m.—Studio Items.
 8 p.m.—Pianoforte Duet "Delianis March" 2
 Enid and Vera Schroder.
 8.4 p.m.—Roy Arant, baritone:
 "Drama of Life" (Phillips).
 8.11 p.m.—Miss Gladys Shaw, elocutionist.
 Selected.
 8.23 p.m.—Miss Elsie Ross, soprano:
 "Piper Jane" (Carver).
 8.27 p.m.—Phyllis Clarkson, pianoforte solo:
 "The Spring".
 8.31 p.m.—Winifred Henderson, contralto:
 "Five Little Pianos".
 8.36 p.m.—"The Voyageur", Alva Blak Ross, soprano, and Roy Arant.
 8.41 p.m.—Gladys Shaw, elocutionist:
 "Selected".
 8.52 p.m.—Miss Winifred Henderson, contralto:
 "You don't Believe in Fairies".
 8.57 p.m.—Pianoforte Duet "Under the Leaves"
 Enid and Vera Schroder.
 9.3 p.m.—Roy Arant, baritone:
 "The Vagabond".
 9.7 p.m.—Miss Elsie Ross, soprano:
 "Hurry up, April".
 9.15 p.m.—Phyllis Clarkson, pianoforte solo:
 "HARSHILL".
 9.17 p.m.—Studio Items.
 9.20 p.m.—Resume of forward programme.
 9.30 p.m.—Close down.

3LO, MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

Friday.

MIDDAY SESSION.

12 noon.—Time signal. Metal arvens received by The Australian Press Association from the London Clock Exchange this day.
 British official wireless news from Rugby, Western and The Australian Press Association.
 12.20 p.m.—STUDIO GAURETTO:
 "Petite Suite de Concert" (Coleridge Taylor).
 12.28 p.m.—SYD FAYNE, the Singing Canadian:
 "Boys from Aunis."
 "Oh, Lu Lu."
 12.42 p.m.—Stock Exchange information.
 12.45 p.m.—STATION TRIO:
 "How Humane" (Young).
 12.50 p.m.—MAGGIE FOSTER, violin:
 "My Ain Folk"
 "Mabel" (Padoue).
 1 p.m.—"The bell strikes one—We take no time to lose."
 But from the bell. To give it then a longus
 10 is in man."—Tyrer.

- 1.1 p.m.—**ANITA SHAWE**, Comedienne:
"Waiting for the Moon."
"Nay, Nay, Neighbor."
- 1.3 p.m.—**Meteorological Information**.
Weather synopsis for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports for Victoria, Tasmania, South Australia and New South Wales.
- 1.13 p.m.—**STUDIO QUARTETTE**:
"Nortural Piece and Minuet" (Schumann)
- 1.35 p.m.—**SYD FAYNE**, the Singing Comedian:
"Ain't it nice."
"Coal Black Rose."
1.32 p.m.—**MAGGIE FOSTER**, violin:
"Nectaree" (Chopin).
"Popular Chorace."
- 1.40 p.m.—**ANITA SHAWE**, Comedienne:
"If no one ever marries me."
"Aid Alone."
- 1.41 p.m.—**STUDIO QUARTETTE**:
"Fes Diavolo" (Auber).
2 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—**STUDIO QUARTETTE**:
"Valse Solo" (Brahms).
- 2.10 p.m.—**MISS FRANCIS FRASER**:
"The Wagner Festival at Bayreuth."
- 2.25 p.m.—**STUDIO QUARTETTE**:
"Scherzo from Wagner's work."
- 2.40 p.m.—**EILEEN CASTLES**, Soprano:
Selected.
- 2.41 p.m.—**MAGGIE FOSTER**, violin:
"Rosa" (Gounod-Sarasate).
"Ah Old Air."
- 2.54 p.m.—**STUDIO QUARTETTE**:
"Sweet Lorraine" (Berndt).
- 2.58 p.m.—**SYD FAYNE**, the Singing Comedian:
"Tipping Cider."
"Soleil."
4.4 p.m.—**MAGGIE FOSTER**, violin:
"Minuet" (Dante).
"Cradle Song" (Schubert).
4.18 p.m.—**EILEEN CASTLES**, Soprano:
Selected.
- 4.28 p.m.—**STUDIO QUARTETTE**:
"Bly Gavotte" (Rubi).
Extracuts, "Mignon" (Thomas).
- 4.50 p.m.—**MISS STEPHANIE TAYLOR**:
"Romance and Legends of Flowers."
- 4.45 p.m.—"Herald" news service. Stock Exchange information.
5 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

- 5.30 p.m.—**BILLY HUNNY** sends Birthday Greetings and thanks all little scribbers for their letters.
- 6 p.m.—**ELISE BRADSHAW** will sing some little songs.
- 6.7 p.m.—**MR. T. BUTCHER** will talk to junior philatelists.
- 6.22 p.m.—**ELISE BRADSHAW** will sing more little songs.
- 6.20 p.m.—**BILLY HUNNY**:
"The Adventures of the Treasure Seekers."
6.40 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
6.47 p.m.—Stock Exchange information.
6.52 p.m.—Fish Market reports by J. R. Borrett, Ltd. Rabbit prices.
6.55 p.m.—Rover reports.
6.53 p.m.—Newmarket Sheep sales by the Associated Stock and Station Agents, Bourke street, Melbourne. Market reports by the Victorian Producers' Co-operative Company, Ltd. Poultry, Grain, Veal, Straw, Juice, Dairy Produce, Potatoes and Onions.
7.12 p.m.—Market report of Fruit by the Victorian Fruitgrowers' Association.

NIGHT SESSION.

- 7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MISS KNIGHT, Fruit Preserving Expert, will speak on:
"Preservation of Berry Fruit."
- 7.30 p.m.—**COLLINGWOOD CITIZENS' BAND**:
March, "Old Faithful."
Fox Trot, "Indeed I Do."

- 7.40 p.m.—**SYD FAYNE**, the Singing Comedian:
"Every Time He'd Kiss Her."
"Up in the Air."
- 7.47 p.m.—**COLLINGWOOD CITIZENS' BAND**:
Fantasia; "Tandahouse."
7.55 p.m.—**MR. R. K. LOVE**:
A Five Valve Neutrodyne.
Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any advice that you may require.
- 8.4 p.m.—**MAGGIE FOSTER**, Violin:
"Chanson" (Rudolf Friml).
"In Happy Moments."
- 8.12 p.m.—**COLLINGWOOD CITIZENS' BAND**:
Selection, "Songs of Wales."
8.22 p.m.—**MR. C. J. WILLIAMS** will comment on tomorrow night's Stadium Event.
8.32 p.m.—**ANITA SHAWE**, Comedienne:
"Uran a Lullaby."
"I Wonder Where My Baby is To-night."
8.40 p.m.—**COLLINGWOOD CITIZENS' BAND**:
Intermezzo, "Dernoiselle Chic."
8.50 p.m.—**EILEEN CASTLES**, Soprano:
Selected.
8.57 p.m.—**MAGGIE FOSTER**, Violin:
"Serenade" (Hering).
"Deep Breath" (Hering).
9.4 p.m.—**MELBOURNE CHORAL UNION**:
"Happy and Light" ("Bohemian Girl").
"Ballad."
"Stars of a Summer Night."
9.11 p.m.—Announcements.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY is for
EVERYONE: "The man who will not listen to safety rules may have to listen to an ambulance siren."
Road Signs.
9.18 p.m.—**SYD FAYNE**, the Singing Comedian:
"Kiss Me Again."
"Dearly."
9.25 p.m.—**CORNET SOLO**:
"Dingy Boy."
9.33 p.m.—**ANITA SHAWE**, Comedienne:
"You Get a New Kind of Man."
"Mrs. Jart Will be Home Ordered."
9.40 p.m.—**CAROLAN**, Mc. H. A. Wells, Sporting Editor of "The Argus" and "Australasian," will speak on tomorrow's races.
9.50 p.m.—**COLLINGWOOD CITIZENS' BAND**:
Waltz, "Forest Flowers."
10 p.m.—**MELBOURNE CHORAL UNION**:
"The Swan" (Chilès).
"London Town" (German).

- 10.7 p.m.—**JOE ARONSON** and HIS SYMPHONIZING SYMPHONISTS:
"The Call" (Kahn).
"Sam, the Old Accordion Man."
"The Mores We are Together" (Campbell).
- 10.17 p.m.—**EILEEN CASTLES**, Soprano:
Selected.
- 10.24 p.m.—**JOE ARONSON** and HIS SYMPHONIZING SYMPHONISTS:
"Sunday" (Miller).
"Let's All Merry Feet" (Roni).
"The Original Black Bottom" (Henderson).
- 10.31 p.m.—"Herald" news service. Meteorological information. British official wireless news from Rugby.
10.44 p.m.—**JOE ARONSON** and HIS SYMPHONIZING SYMPHONISTS:
"I Didn't Know" (Swift).
"Perchance" (Herry).
"Perhaps You'll Think of Me" (Stone).
- 11 p.m.—**OUR GREAT THOUGHT**:
"Laws and Institutions are constantly sending to privacies. Like clocks, they must be occasionally cleaned and wound up and set to true time."—Henry Ward Beecher.
- 11.1 p.m.—**JOE ARONSON** and HIS SYMPHONIZING SYMPHONISTS.
11.40 p.m.—**GOOD SAVE THE KING**.

5CL, ADELAIDE

Central Broadcasters, Ltd.
Wave Length, 295 Metres.

Friday
MORNING SESSION,
12 noon to 3 p.m.

- 12.00 p.m.—**ATTEENOON SESSION.**
- 1 p.m.—Chimes.
- 1.1 p.m.—Relay from the Maple Leaf Cafe—Orchestral selections.
- 1.45 p.m.—From the Studio, Musical Items and serial notes.
- 4 p.m.—Chimes.
- 1.1 p.m.—Relay from the Arcadia Cafe—Orchestral selections.
- 1.45 p.m.—Margery Welch, soprano.
- 1.55 p.m.—Station announcements, Messrs. G. C. Ward and Co's stock Exchange Intelligence.
- 5 p.m.—Chimes.

EVENING SESSION.

- 6 p.m.—Chimes.
- 6.11 p.m.—Relay from the Central Garden Restaurant—Dinner Music.
- 6.30 p.m.—Rustic Stories.
- 6.35 p.m.—Messrs. S. C. Ward and Co's Stock Exchange Intelligence. Market reports by Messrs. A. W. Sandford and Co., A. G. Hall and Co., De Goly and Co., S. A. Farmers Co-operative Union, "Egmont," Bros., Retail and Wholesale, Dawson's Fish Market, reports, J. H. Young's Special report on the Tomato Market, Intermore Fruit and Produce Market Companies.
- 7.00 p.m.—Sporting talk by "Highmach."
- 7.30 p.m.—Football talk by "Highmach."
- 8 p.m.—Chimes.
- 8.1 p.m.—Studio Orchestra
- 8.2 p.m.—Linda Wald, soprano.
- 8.15 p.m.—Studio Orchestra.
- 8.38 p.m.—Linda Wald, soprano.
- 8.48 p.m.—The Hayden Quartette.
- 8.45 p.m.—Studio Orchestra.
- 8.58 p.m.—The Hayden Quartette.
- 9.1 p.m.—Meteorological information.
- 9.2 p.m.—Daisy's wheel report.
- 9.3 p.m.—Sydney Murrell baritone.
- 9.33 p.m.—Studio Orchestra.
- 9.38 p.m.—Under the auspices of the Agricultural Department, Mr. R. O. Scott (Experimental Research Agricultural College) will talk.
- 9.50 p.m.—Studio Orchestra.
- 9.55 p.m.—Bill Evans, tenor.
- 9.57 p.m.—Sed. Murrell, baritone.
- 9.52 p.m.—Studio Orchestra.
- 10.1 p.m.—"Advertiser" news service. Wireless Shipping Station announcements, Wodonga Sporting Service.

NEW ZEALAND STATIONS:
(Corrected List).

1YA, Auckland, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 500 Watts; Wave-length, 333 Metres. Silent Night, Monday.

2YA, Wellington, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 3000 Watts; Wave-length, 420 Metres.

3YA, Christchurch, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 500 Watts; Wave-length, 305 Metres. Silent Night, Thursday.

4YA, Dunedin, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 750 Watts; Wave-length, 463 Metres.

Why Hume Static? Buy a Philco!

10.15 p.m.—Beryl Couster, soprano.
10.15 p.m.—Studio Orchestra.
10.30 p.m.—Metas from Glasgow—The Masons Dance Band.
11.15 p.m.—Tomorrow's programme, Station announcements, Meteorological Information, National Anthem.

6WF, PERTH

Western Farmer's.
Wave Length, 1250 Metres.

Friday.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, News, and Cables.
1.35 p.m.—Time from Perth Observatory.
1.45 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
1.5 p.m.—Studio Quintette.
2 p.m.—Close down.
2.30 p.m.—Tune in.
2.35 p.m.—Musical programme from the Studio, including vocal and instrumental numbers.
Opera selections, relayed from the Grand Theatre, Murray Street.
4.30 p.m.—Close down.
4.45 p.m.—Tune in.
6.55 p.m.—Musical evening for the Kiddies, by Annette Marjoris, and Uncle Henry, Leslie, Perry, Rag and Dolly.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Racing talk, by the Sporting Editor of "Truth" Newspaper Co.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

POPULAR NIGHT.

8.30 p.m.—Musical programme, including vocal and instrumental titles.
(Orchestral music by Boys' Orchestra, conducted by Mr. Harold Parlington, relayed from Boys' New Recent Theatre, William Street.)
9 p.m.—Talk, "Gardening Notes," by Mr. E. A. Hughes, representing Messrs. Dunning and Harrison, Limited.
10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Co.
Shows within range announcement.
Weather Report and Forecast.
10.50 p.m.—Close down.

100 METRE TRANSMISSION.

Simultaneous Broadcast on 100 Metres of Musical Programme given on 1250 Metres, commencing at 8 o'clock.

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 595 Metres.

Friday

MORNING SESSION.—11 a.m. to 12 noon.

AFTERNOON SESSION.

2 p.m.—G.P.O. Clock Chimes.
2.15 p.m.—Tune in reception.
2.5 a.m.—Hobart Stock Exchange quotations—Weather Information.
Items of Interest! Announcements.
3.15 p.m.—Orchestral selections by 7ZL Studio.
4.15 p.m.—Educational Talk.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.55 p.m.—Children's Corner with the "Radio Lady."
7 p.m.—Young Folk's Gardening Chat, by Mr. George Nathan.

NIGHT SESSION.

7.30 p.m.—Fruit, Poultry and Produce Reports, through the courtesy of Roberts and Co., Hobart.
7.45 p.m.—Gardening Talk, by Mr. George Nathan, Glen Nurseries, Oatfield.
7.50 p.m.—"Mercury" special Tasmanian news service.
8.00 p.m.—Railway Auction Produce Sale, Weather forecasts, Hobart Stock Exchange.
8 p.m.—G.P.O. Clock Chimes.
8.1 p.m.—Sports Budget, supplied by Mr. H. W. Brown, of Hobart.
8.3 p.m.—Studio Concert.
Miss Mosa McElwaine (soprano).
Miss Dublin Tait (sopranoist).
Miss Ruby Pimms (pianist).
Miss Norah Freney (soprano).
Mr. E. Tegan (baritone).
Mr. Victor Pharaoh (basso solo).
Mr. George Hoak (comedian).
Mr. Harry Bates (tenor).
8.50 p.m.—Chat on Saturday's Football Match, by "Sinewy" Mark.
9.0 p.m.—British Official Wireless News.
9.30 p.m.—"Mercury" special late-night news service.
Ships within wireless range.
Inclusion District Weather Report.
9 p.m. Weather forecasts.
Travellers' week-end information.
National Anthem.

11.15 a.m.—A talk on Gardening, by Mr. G. J. Lockley ("Redgum").
11.30 p.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" and announcements.
12.15 p.m.—Stock Exchange, first call.
12.3 p.m.—Studio Quintette.
12.30 p.m.—"Sunday Morning Herald" news service.
1.00 p.m.—Wireless news.
12.35 p.m.—Studio music.
NOTE: A full description of the A.I.C. Spring Meeting at Randwick will be given by the 2FC Racing Commissioner.
1 p.m.—"Big Ben" Weather Intelligence.
1.3 p.m.—"Evening News" midday news service.
1.40 p.m.—Studio music.
6.30 p.m.—Studio music afternoon during the intervals of Racing events and results the following Musical Items will be given:
Cif Flur, specially planned.
The Wentworth Symphonic Dance Orchestra. Conductor, Mr. Cyril Kaye.
4.30 p.m.—A complete resume of the day's events.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—Programme announcements.
6.45 p.m.—"The Hello Man" talks to the children.
6.50 p.m.—Story time for the young folk.
7.00 p.m.—Studio music.
7.15 p.m.—"Big Ben" Weather Intelligence.
7.3 p.m.—"Evening News" late news service.
7.45 p.m.—A full description of to-day's Spring Meeting at Randwick, told by the special 2FC Racing Staff.
7.57 p.m.—"Is it your Birthday?"
8 p.m.—"Big Ben."
The Fourth Hour Concert Band:
(a) March, "Pump and Pageant" (Anderson).
(b) "The Scottish Patrol" (Manbeth).
8.15 p.m.—A description of the Jasing at the Speedway Royal (from the Royal Agricultural Showgrounds).
8.25 p.m.—The Bondi Beach Concert Band: "Old English Folk Dances" (Geeb).
8.30 p.m.—Lawrence Macaulay, basso:
(a) "Time to go" (Shanty song) (Sanderson).
(b) "Angels Guard Thee" (Benjamin Godard).
8.35 a.m.—Description of the racing at the Speedway Royal.
8.43 p.m.—Andrew Higginson and Erid Lavis, entertainers:
(a) "Floradora Scintille" (Stuart).
(b) "Stick it" (Delmar).
8.50 p.m.—The Bondi Beach Concert Band: Walker, "September" (Godd).
9 p.m.—"Big Ben." Latest weather forecast.
9.2 p.m.—Mrs. de George, violin solo.
9.9 p.m.—Description of the Speedway Royal Racing events.
9.23 p.m.—The Bondi Beach Concert Band's Selection, "Gipsy Love" (Labe).
9.27 p.m.—Lawrence Macaulay, basso: "Le Portrait" (Parkyn).
9.30 p.m.—Andrew Higginson and Erid Lavis, entertainers:
(a) "Mistled" (Weston and Lee).
(b) "I love you truly" (Bond).
9.38 p.m.—Descriptions from the Speedway Royal.
9.43 p.m.—Harrison White, harp solo.
9.46 p.m.—The Bondi Beach Concert Band: March, "The President" (Gerrans).
9.58 p.m.—Lawrence Macaulay, basso: "In her old-fashioned way" (Huetel).
9.56 p.m.—Results of the Speedway Royal events.
10.5 p.m.—Andrew Higginson and Erid Lavis, entertainers:
(a) "Patter-It" (Treland).
(b) "Milligan's Picture Show" (Weston and Lee).
(c) "Only a Rose" (Fisher).

Saturday Oct. 1 2FC, SYDNEY.

EARLY MORNING SESSION, 7 to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.55 p.m.—"Sunday Morning Herald" news service.
10.40 a.m.—Studio music.
10.55 a.m.—A talk by the 2FC Racing Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.

FOREIGN BROADCASTERS.

JOCK—Nagora Radio Broadcasting Co., Nagara JAPAN: 350 metres, 1000 watts. (Announcement in English and Japanese).

JORB—Osaka Central Broadcasting Co., Osaka, JAPAN: 855 metres, 1000 watts. (Announcement in English and Japanese).

JOAK—Tokyo Broadcasting Co., Tokyo, JAPAN, 375 metres, 1000 watts. (Announcement in English and Japanese).

JFC—Batavia Radio Vereeniging, BATAVIA, 238 metres, 40 watts.

KZRM—Manila, PHILIPPINE ISLANDS: 413 metres, 1900 watts. (Announcement in English and Philippine).

KGL—"Hansulu Advertiser," Honolulu, HAWAII, 278 metres, 500 watts.

KGO—Oakland, CALIFORNIA: 361.2 metres, 900 watts.

KFL—Los Angeles, CALIFORNIA: 467 metres, 900 watts.

KQA—Denver, COLORADO: 322.4 metres, 500 watts.

10.13 p.m.—Hazelton White, Liano solo.
11.00 p.m.—Les de Georgia, violin solo.
11.05 p.m.—The Victorian Symphonic Dance Orchestra.

10.45 p.m.—Andrew Harrison and Edith Levin, entertainers.

10.45 p.m.—The Wentworth Symphonic Dance Orchestra, Conductor, Mr. Cyril Bass.
10.57 p.m.—Tales and announcements.
11 p.m.—"Big Ben."

The Wentworth Symphonic Dance Orchestra, with music from the Studio at intervals until 11.30 p.m.

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

2EL, SYDNEY

Saturday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

11 a.m.—G.P.O. clock and chimes.
Musical programme from the Studio.
11.10 a.m.—Social notes by Mrs. Jordan.
Talk on "Simple Cooking for Children," by Mrs. Jordan.

AFTERNOON SESSION.

Talking information broadcast immediately after each race, by courtesy of the "Sun."
12 noon.—G.P.O. clock and chimes.
Special ocean forecast and weather report.
12.4 p.m.—News from the "Sun."
12.45 p.m.—Sports and athletic fixtures.
12.48 p.m.—What's on at the pictures and theatres?
12.50 p.m.—Brunswick Patrols musical recital.

12.50 p.m.—Racing results.
12.55 p.m.—Musical recital.
1.00 p.m.—News from the "Sun."
1 p.m.—G.P.O. clock and chimes.
Musical programme from the Studio.
1.10 p.m.—Sports talk and athletic fixtures for the day, Lacerous, hockey, tennis, football, sailing, boating.

1.20 p.m.—Musical programme from the Studio.
1.30 p.m.—G.P.O. clock and chimes.
Talk to children and special entertainment for children in hospital.
2 p.m.—G.P.O. clock and chimes.
Serial story.
2.15 p.m.—Musical programme from the Studio.
2.25 p.m.—Racing results.
2.30 p.m.—G.P.O. clock and chimes.
News from the "Sun."

During the afternoon sporting information will be broadcast by courtesy of the "Sun," interspersed with musical items and broadcasting of football matches.
6 p.m.—G.P.O. clock and chimes.
Racing results.
6.5 p.m.—Close down.

EARLY EVENING SESSION.

6.45 p.m.—G.P.O. clock and chimes.
Children's session.
6.50 p.m.—Musical programme from the Studio.
7.15 p.m.—Results of all sporting and athletic information.
7.30 p.m.—Country news from the "Sun."

NIGHT SESSION.

8 p.m.—G.P.O. clock and chimes.
Broadcasters' Topical Chorus.
8.1 p.m.—Sports programme.
Musical items from the Studio by Miss Anne Fyffe (soprano); Mr. Frank Ryan (tenor); Mr. Dudley Hearnish (baritone). The Whispering Lady Baritone, and Broadcasters' Instrumental Trio.
10.15 p.m.—The Ambassadors' Dance Band broadcast from the ballroom of the Ambassador. During intervals between dances, "Sun" news will be broadcast.
12 midnight.—G.P.O. clock and chimes.
National Anthem.

2UW, SYDNEY

Saturday.

EVENING SESSION.

7 p.m.—Where in Go.
7.10 p.m.—Studio items.
7.25 p.m.—Resume of forward programmes.
8.30 p.m.—Close down.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

11 a.m.—STUDIO QUARTET:
Symphonic Suite, "Foghorn Impression"—Part 1 (Cris).
11.15 a.m.—ANITA SHAWK, Comedienne:
"I've Got the Rag."
"My Cutie's Due at Two in Two."
11.25 a.m.—MAGGIE FOSTER, violin:
"March Militaire" (Schubert).
"Gavotte" (Gossec).
11.35 a.m.—SYD PAYNE, the Singing Comedian:
"Kelti."
"Kiss Me."

11.55 a.m.—STUDIO QUARTET:
Symphonic Suite, "Egyptian Impression"—Part 2 (Cris).
11.55 a.m.—DOROTHY ROXBURGH, violin:
"Sonata in G" (Bach).
12.05 a.m.—STUDIO QUARTET:
"Louis XII. Gavotte."

12 noon.—Tone signal. Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British Official Wireless news from Rugby. Reader's and the Australian Press Association cables. Argus news service.

12.25 p.m.—STUDIO QUARTET:
"Frisol Song" (Moses Gohari).
"By the Lake of Geneva" (Beudel).
12.30 p.m.—SYD PAYNE, the Singing Comedian:
"Four and Nine."
"By Jingo."

12.37 p.m.—Stock Exchange information.
12.40 p.m.—STATION TRIO:
"La Belle Valencianna" (Koenigstein).
12.45 p.m.—ANITA SHAWK, Comedienne:
"Ode for Norway."
"O' the Boat."

12.55 p.m.—STUDIO QUARTET:
"The Blue Mediterranean" (Vulpatis).
1 p.m.—OLD TIME, the clock setter, that held sexton Time, says:
"O' the Boat."
"Redeem the mildest time that's past,
And live this day as 'were thy last."

Short Wave Broadcasters

Schedules and Wavelengths Subject to Change.

40-2NM, Gerald Marceau, Catterham, England, 25 and 25 metres (I.R.C. Programmes).

EN-PCJ, Philips' Experimental Station, Eldonwood, Holland, 90.2 metres (B.C. Programmes).

NU-2XAF, General Electric Co. Schenectady, New York State, U.S.A., 82.77 metres (W.G.Y. Programmes).

NU-2XAG, General Electric Co. Schenectady, New York State 14.36 and 82 metres (W.G.Y. Programmes).

NU-KDKA, Westinghouse Electric Co., Pittsburgh, Penn., U.S.A., 63.5 and 14 metres.

NU-WLV, Crookes Radio Corporation, Cincinnati, Ohio, U.S.A., 52 metres.

NU-2XAL, "Radio News," New York City, U.S.A., 50.91 metres (WRNY Programmes).

IO-JJ, Johannesburg Broadcasting Company, South Africa, 20 and 25 metres.

11 p.m.—Description of October Hurdle V.R.C. FLEMINGTON, by "Musket," of the Sporting Globe.

1.5 p.m.—EILEEN CASTLES, Soprano.
"Selected."

1.12 p.m.—Meteorological information. Shipping Intelligence. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Coast Forecast. River reports. Rainfall for Victoria, Tasmania, South Australia and New South Wales.

1.18 p.m.—STUDIO QUARTET:
"Lullie Time Waltz."
1.23 p.m.—MAGGIE FOSTER, violin:
"Diegle" (Waltz Turner).
"Popular Chorus."

1.35 p.m.—EILEEN CASTLES, Soprano:
"Selected."

1.40 p.m.—Description of Maryborough Trial Stakes, 4½ furlongs, V.R.C. FLEMINGTON, by "Musket," of the Sporting Globe.

1.45 p.m.—EILEEN CASTLES, Soprano.
"Selected." Solo.
1.48 p.m.—TAMMA THIRMAN,
"On Wings of Song" (Mendelssohn).
"Gavotte" (Gossec).

1.55 p.m.—STUDIO QUARTET:
"Was Bist du Heister" (Shibler).
2 p.m.—Close down.

2.30 p.m.—Description of Sand Handicap, 1½ miles, V.R.C. FLEMINGTON, by "Musket," of the Sporting Globe.

2.45 p.m.—Description of LEAGUE FOOTBALL Final Match at M.C.G. by Mr. Rod McGregor.

2.45 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
3.10 p.m.—Description of Trial Stakes, 4½ furlongs, V.R.C. FLEMINGTON, by "Musket," of the Sporting Globe.

3.15 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
3.20 p.m.—Description of LEAGUE FOOTBALL FINAL MATCH at M.C.G. by Mr. Rod McGregor. Quarter time.

3.30 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
3.45 p.m.—Description of October Stakes, 2 miles ½ furlong, V.R.C. FLEMINGTON, by "Musket," of the Sporting Globe.

3.50 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
4 p.m.—Description of LEAGUE FOOTBALL FINAL MATCH at M.C.G. by Mr. Rod McGregor. Half-time.

4.10 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
4.25 p.m.—Description of October Stakes, 1 mile, V.R.C. FLEMINGTON, by "Musket," of the Sporting Globe.

4.30 p.m.—Description of LEAGUE FOOTBALL FINAL MATCH at M.C.G. by Mr. Rod McGregor.

4.40 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
4.45 p.m.—"Herald" news service. Stock Exchange Information.

5 p.m.—Description of Padlock Handicap, six furlongs, V.R.C. FLEMINGTON, by "Musket," of the Sporting Globe.

5.05 p.m.—Description of LEAGUE FOOTBALL FINAL MATCH at M.C.G. by Mr. Rod McGregor.

5.15 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

5.20 p.m.—Sports results.
5.45 p.m.—Answers to letters and kindly greeting: by "LITTLE MISS KOOKABURRA."

6.14 p.m.—EISIE BRADSHAW:
Songs for the Children.
6.37 p.m.—LITTLE MISS KOOKABURRA:
Stories for the Children.

6.50 p.m.—EISIE BRADSHAW:
More songs for the Children.
6.45 p.m.—"Herald" news service. Weather reports. Shipping movements.

6.42 p.m.—Stock Exchange information.
6.47 p.m.—Fish market reports by J. R. Barrett, Ltd., Hobart prices.
6.50 p.m.—River reports.
6.53 p.m.—Newmarket sheep sales by Associated Stock and Station Agents, Mountsford, Melbourne. Market reports by the Victorian Producers' Cooperative Co., Ltd., poultry, straw, hay, straw, juice, dairy produce, potatoes and onions.
7.10 p.m.—Market reports of fruit by the Victorian Fruitgrowers' Association.

NIGHT SESSION.

7.15 p.m.—MR. C. ELLIS:
"Sudden and Red."
7.30 p.m.—MR. F. E. FROST:
"Kerosene Oil and other products."
7.45 p.m.—MR. R. RAWSON:
"Esperanto."

8 p.m.—STUDIO QUARTET:
Selection, "Behrman's Gift" (Bulle).
8.10 p.m.—BEVEL HAWKER, soprano:
"Sing, Sweet Bird" (Gung).
"Auntie Laura" (Liza Lehman).
8.15 p.m.—REGINALD BRADLEY, violin:
Concerto, "Andante from Mendelssohn."
"Bolero" (Cecil Hurley).
8.25 p.m.—STUDIO QUARTET:
Suite, "Don Quixote."
8.37 p.m.—A special programme has been arranged.
10.10 p.m.—STUDIO QUARTET:
"Thousand and One Nights" (Strauss).
"Morning Journals" (Strauss).
10.25 p.m.—BEVEL HAWKER, soprano:
"Elegy" with violin obligato by Hettie Jorgensen (Mascagni).
"Vilanelle" (Odi Acquai).
10.32 p.m.—STATION STUDIO:
Selection, "Kalinka" (Prini).
10.42 p.m.—Late evening results.

11 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR THE YEAR.
MOTORING—"Never take a chance. Remember a car can be built in 30 days, it takes 21 years to make a man."

OUR GREAT THOUGHT:
"Oh! in the depths of the soul's struggle the levels of knowledge and virtue are mixed."
Harnes's Philosophy of Education.
11.15 p.m.—JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.
11.48 p.m.—GOD SAVE THE KING.

5CL, ADELAIDE.

Saturday.
MORNING SESSION.
11 a.m. to 12 noon.

AFTERNOON SESSION.
12.15 p.m.—Relay from the Cheltenham Park Racecourse, running description of the Amateur Turf Club Race Meeting will be given by Mr. Arnold Taylor. During the afternoon, Musical Items and Interslate Sporting information will be broadcast from the Studio.
1.35 p.m. (approx.)—Close down.

EVENING SESSION.

8 p.m.—Chimes.
8.15 p.m.—Relay from the Covent Garden Restaurant—Din or Music.
9 p.m.—Bottleing Station.
9.25 p.m.—Messrs. J. G. Ward & Co.'s Stock Exchange intelligence. Market reports by Messrs. A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., G. A. Farrier's Co-operative Union, Taylor Bros., Retail Grocers' Association, J. H. Vining's Special reports on the Tomato market, Interstate Fruit and Produce Market Company.

9 p.m.—Chimes. General Sporting Intelligence.
9.15 p.m.—Talk by the Rev. G. E. Lake, G.A.
9.30 p.m.—Messrs. A. C. Williams' G.A. Stock Exchange.

9.35 p.m.—Relay from the Exhibition Building, by radio broadcast of the musical part of a concert by the Westralian Orchestra.
10.30 p.m. (approx.)—General Sporting Intelligence.
10.45 p.m.—Relay from Glenelg—The Nelson Dance Band.
11.15 p.m.—Tomorrow's sports page, STATION announcements, Meteorological information (National Autumn).

6WF, PERTH.

Saturday.

12 noon.—Time in.
12.5 p.m.—Musical programme, including Victorian Selections by some English artists, A.R.C.N.
12.47 p.m.—Market, News, and Cables.
1 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Close down.
1.35 p.m.—Time in.

SPORTING SESSION.

2.28 p.m.—Quarterly results of the Semi-Final Football Match.
Racing results.
4.30 p.m.—Close down.
6.45 p.m.—Time in.
6.58 p.m.—Birthdays greetings, by Uncle Perry and Rag.
7.10 p.m.—Sports results.
7.20 p.m.—Market, News, and Cables.
7.45 p.m.—Talk.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Other notes, supplied by the Meteorological Bureau of Western Australia.

MUSIC AND SONG.

8.3 p.m.—Musical programme from the Studio, including vocal recitals, guitar, piano, Dance music by Colin Smith and his Dance Orchestra, relayed from the Perth Palace Royal.
9.10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Coy.
Ships within range announcement.
Weather Report and Forecast.
Stock results.
10.35 p.m.—Close down.

7ZL, HOBART.

Saturday.

MORNING SESSION.—11 a.m. to 12 noon.
AFTERNOON SESSION.

2 p.m.—Broadcast by direct wire from North Hobart Oval. Exciting description of the Football Premiership Match by "Woody" March.
Close down.

EARLY EVENING SESSION.

8.50 p.m.—"Uncle Poley's" half-hour.
7 p.m.—"Uncle Hector" talks to the children.

NIGHT SESSION.

7.50 p.m.—Musical selection.
7.55 p.m.—Talk under the auspices of the Hobart Development League.
8.50 p.m.—"Mercury" special Tasmanian news service.
Railway Auction Produce Sales.
Weather information.
Hobart Stock Exchange quotations.
9 p.m.—A. P. O. Clock Chime.
8.1 p.m.—Dance numbers by Mrs. Sheppard's Trio from Imperial Hotel, Hobart.
Items interspersed from the Studio.
10.20 p.m.—British Official Wireless News.
Weather information.
Station announcements.
National Autumn.

Sunday, Oct. 2
2FC, SYDNEY

MORNING SESSION.

11.55 a.m.—Programme announcements.
11 a.m.—"Big Ben" (The Evening Service from the Pitt Street Congregational Church, Sydney, Rev. T. Knapp).
12.15 p.m.—Relay from the studio.
1.30 a.m.—Close down.

AFTERNOON SESSION.

2 p.m.—"Big Ben" and programme announcements.
2.30 p.m.—A programme arranged by the Central Arch-aeological Museum, Adelaide, including a record of the (Museum's) first, second, and third Scottish Government's archaeological programme of the programme will include the following artists:
(a) Mr. J. Macdonald, alto.
(b) Miss Peers, baritone.
(c) Mr. Macdonald, alto.
4.30 a.m.—Close down.
4.40 a.m.—Special notes, including will broadcast a quiz on Harmony and Counterpoint.
4.50 p.m.—Close down.
4.55 p.m.—Close down.

NIGHT SESSION.

8 p.m.—"Big Ben" and programme announcements.
8.5 p.m.—Bevel Aveling, pianist.
(a) "Promenade and Toccata in L. Pitt Major" (Boca).
(b) "Nocturne" from "Water Music" (Handel).
9.13 p.m.—Margaret James, soprano.
9.17 p.m.—Michele Dobrynski, violinist.
9.24 p.m.—Margaret James, soprano.
9.27 p.m.—Bevel Aveling, pianist.
(a) "Studo in C Minor" (Rehmann).
(b) "Liedchen" (Rehmann).
9.36 p.m.—Margaret James, soprano.
9.43 p.m.—Michele Dobrynski, violinist.
9.50 p.m.—Announcement of Church Services.
9.58 p.m.—Close down.
10 p.m.—"Big Ben." The Evening Service from St. Stephen's Church, Phillip Street, Sydney. Preacher, Rev. James Barr, M.A., B.D., from Scotland.
9.30 p.m.—Sirella Wilson, Principal soprano of the Gilbert and Sullivan Opera Company (by permission of J. C. Williamson Ltd.) from the Studio.
9.40 p.m.—Vost Janssen in a lecture-reading on Old Vienna.

Instruments by the following Makers will be used and the characteristics of each maker will be explained, prior to playing an item on each instrument.
1. Joseph Guarnerius de Geau, 1734 (Cremona, Italy).
2. Ferdinando Gagliano, 1755 (Naples, Italy).
3.50 p.m.—Sirella Wilson, soprano.
3.55 p.m.—Principal of the Gilbert and Sullivan Opera Company (by permission of J. C. Williamson Ltd.).
9 p.m.—"Big Ben."
Captain Ben Aaron a Biographical Comparison—Oliver Cromwell and Washington.
9.13 p.m.—Dores—Sirella Wilson, soprano, and James Hay, tenor, Principals of the Gilbert and Sullivan Opera Company.
(By permission of J. C. Williamson Ltd.)
9.20 p.m.—Victor McElshon, Solo solo.
9.27 p.m.—Sirella Wilson, soprano.
9.30 p.m.—St. Vost Janssen in continuation of his lecture-reading on "Old Vienna."

Instruments by the following Makers will be used and the characteristics of each maker will be explained, prior to rendering the items.
1. Viola, Benjamin Banks, 1799 (Salisbury, England).
2. Moders, Louis Olin, 1912 (Dusseldorf, Germany).
9.41 p.m.—James Hay, tenor (of the Gilbert and Sullivan Opera Company, by permission of J. C. Williamson Ltd.).
9.48 p.m.—Victor McElshon, Solo solo.
9.55 p.m.—Dores, Sirella Wilson, soprano, and James Hay, tenor, (by permission of J. C. Williamson Ltd.).
10 p.m.—"Big Ben."
National Autumn. Close down.



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2BL, SYDNEY

Sunday.

- 10.45 a.m.—Special news service.
 11 a.m.—Service broadcast from the Presbyterian Church, Randwick.
 12.15 p.m.—Close down.
 2 p.m.—G.P.O. clock and chimes.
 Special service from the Studio for children in the hospitals.
 2.15 p.m.—Recital by courtesy of the H.M.V. Gramophone Co.
 2.45 p.m.—Information service.
 2 p.m.—G.P.O. clock and chimes.
 Children's service broadcast from the Congregational Church, Waterloo.
 4.30 p.m.—Bible class conducted by Mr. W. "Cairo" Bradley.
 5.15 p.m.—Close down.
 6.45 p.m.—Children's service.
 7 p.m.—Service broadcast from the Petersham Baptist Church.
 8.30 p.m.—Band recital by the North Sydney Tramway Band broadcast from the Manresa Hall, North Sydney.
 9 p.m.—Solist: Miss Nellie Duggan.
 9.15 p.m.—From the Studio: Weather report and forecast by courtesy of Mr. C. J. Macrae.
 9.45 p.m.—Broadcasters' Trio.
 9.50 p.m.—Mr. Stoffel Reinhardt, baritone.
 9.53 p.m.—Miss Maliss Barnett, contralto.
 9.59 p.m.—Broadcasters' Trio.
 9.59 p.m.—Mr. Stoffel Reinhardt.
 9.57 p.m.—Resume of following day's programme.
 10 p.m.—G.P.O. clock and chimes.
 10.1 p.m.—Miss Maliss Barnett.
 10.2 p.m.—Broadcasters' Trio.
 10.15 p.m.—G.P.O. clock and chimes.
 National Anthem.

2GB, SYDNEY

Sunday.

MORNING SESSION.

- 10.15 a.m.—Music from St. Alban's Liberal Catholic Church, Redfern.
 10.30 a.m.—Service from St. Alban's Liberal Catholic Church. Celebration of the Most Holy Eucharist.
 12 noon—Close down.

EVENING SESSION.

- 8.45 p.m.—Music from Studio.
 7 p.m.—Lecture from Adyar Hall.
 9 p.m.—Songs by Miss Edna Lanning.
 8.10 p.m.—Duet for two violas with piano accompaniment.
 Miss Scully, Monies Holder, Mrs. Freedman.
 8.25 p.m.—Serenade by Miss Edna Lanning.
 8.30 p.m.—Victory solos: Miss Monies Holder.
 1. "Meditation" (Massenet).
 2. "Serenade" (Paine).
 8.40 p.m.—Address.
 10 p.m.—Close down.

2UW, SYDNEY

Sunday.

MORNING SESSION.

- 10.30 a.m.—"Grand March" (Teuchauer) (Wagner).
 11.05 a.m.—"The Last Chord" (Sullivan).
 Tenor solo.
 11.29 a.m.—"Singing Fancies, No. 1" (Hart), Harp solo.
 10.44 a.m.—"Adagio Lillies," Tenor solo.
 11.10 a.m.—"1312 Overture" (Lichakowsky).
 Band selection.
 10.54 a.m.—"To a Water Lily" (Macdowell).
 Harp solo.
 11 a.m.—"Humoresque," Op. 10, No. 7 (Dvorak), Violin solo.
 11.5 a.m.—"You Forget to Remember," Organ solo.

- 11.10 a.m.—"By the Brook," Nyl of 33 (Wetzger), Flute solo.
 11.14 a.m.—"Caprice Viennoise" (Kreutzer), Violin solo.
 11.18 a.m.—"Sleepy Time Gal," Organ solo.
 11.23 a.m.—"The Nightingale" (Dusjoe), Flute solo.
 11.25 a.m.—Studio Items.
 12.29 p.m.—Resume of forward programme.
 12.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Studio Items.
 7.34 p.m.—Miss Marie Hahn, pianoforte solo: "Squidilla" (Albaniz).
 7.35 p.m.—Duet, Miss Marie Hahn, Soprano; Eugene Casloff, Baritone.
 Overture and prologue to "Pagliacci" (Leoncavallo).
 7.42 p.m.—Miss Marie Hahn, Soprano: "Gaming Home" (Willoughby).
 7.43 p.m.—Studio selection.
 7.51 p.m.—Eugene Casloff, Baritone: "At Dawlish" (Cudman).
 7.55 p.m.—Duet, Miss Marie Hahn, Soprano; Eugene Casloff, Baritone: "Still as the Night" (Dobni).
 8 p.m.—Studio selection.
 8.5 p.m.—Les Lawes and His "Moomers" Orchestra.
 "A Lane in Spain" (Fox Trot).
 8.15 p.m.—"To-night You Belong to Me" (Waltz).
 8.22 p.m.—Studio selection.
 8.30 p.m.—Les Lawes, Pianoforte solo: "Oh, Miss Hannah."
 8.35 p.m.—"Colden Duo," Steel Guitars: Selected.
 8.40 p.m.—Les Lawes and His "Moomers" Orchestra: "Looking Over a Four-Leaf Clover" (Fox-Trot).
 8.53 p.m.—"Colden Duo," Steel Guitar Selection.
 9 p.m.—"Colden Duo," Steel Guitar Selection.
 9.5 p.m.—Les Lawes and His "Moomers" Orchestra: "The Lion" (Fox Trot).
 8.15 p.m.—"Blue Skies" (Fox Trot).
 9.25 p.m.—"Colden Duo," Steel Guitar Selection.
 9.30 p.m.—Resume of forward programme, and Close down.

3LO, MELBOURNE.

Sunday.

MORNING SESSION.

- 10.30 a.m.—Duties from St. Paul's Cathedral.
 10.45 a.m.—Express Train information. British Official Wireless News from Rugby.

MORNING SERVICE FROM

TOORAK PRESBYTERIAN CHURCH
 Preacher: REV. JOHN MACKENZIE, M.A.

Organist and Choirmaster: Mr. JAMES W. HEDGON.

- 11 a.m.—Invocation.
 John 89. "Rejoice, the Lord is King."
 Old Testament Lesson.
 Prayer.
 Thanksgiving.
 Confession.
 Psalms, Chant 64. "Te Deum."
 New Testament Lesson.
 Prayer—Intercessory.
 Metrical Psalm—100. "All people that on earth do dwell."
 Address to Children.
 Lord's Prayer.
 Children's Hymn, 546. "Little Children Praise the Saviour."
 Instructions.
 Offertory and Anthem. "Come and let us return unto the Lord" (Goss).
 SERMON.
 Hymn 363. "The Son of God goes forth in war."
 Address to Children.
 12.15 l.m.—Close down.

AFTERNOON SESSION.

- 2.02 p.m.—GREAT MASONIC CHORAL SERVICE—
 Transmitted from the Theatre Royal, Melbourne. Collection in aid of Melbourne Hospital.
 Organist: Wm. Bro. Albert E. Wright.
 Opening Remarks.
 JOE ARONSON'S SYMPHONY ORCHESTRA:
 Overture, "Morning, Noon and Night in Vienna" (Suppe).
 OSWALD R. BROWN, Baritone: "The Teacard Song" (Carmen (Biscl).
 FERNE BOYLE, Soprano: "The Page's Song" (Les Huguenots (Meyerbeer).
 IZABEL DUNCAN, Recital: "Hamlet, Act 1—Scenes 4 and 5."
 LESLIE BARRIAM, Flute Solo: "Tin Petri Bird" (Kreutzer).
 "Teachin'."
 MR. and MADM GREGOR WOOD—Duet: "Who is Sylvia" (Harpier Keck).
 JOE ARONSON'S SYMPHONY ORCHESTRA:
 "Gems of the Opera and Ballads" (Robert).
 MALE CHORUS (Orphan Masonic Choir): "Holy Night" (Reethoven).
 "The Last Chord" (Sullivan).
 APPEAL by Wm. Bro. W. A. H. KET. Offertory.
 VICTOR DRINKWATER, Tenor: "A Bright Flower" (Martin Stanton).
 JESSIE SHIMITH, Contralto: "Danny Boy" (Weatherly).
 JOE ARONSON'S SYMPHONY ORCHESTRA:
 "On with the Show" (Liddle).
 J. ALEXANDER BROWNE, Baritone: "Thou art risen, my beloved" (Coleridge).
 "Sylvia" (Gley Speaks).
 HAROLD RODGERS, Piano Solo: "Dancing Doll" (Poldini).
 "Mousses Maitre" (Chopin).
 ETHEL PATERSON, Song at the Piano: "The Tin Gloe Goe."
 STANLEY BROWNES, Dickens Recital: Scene from "The Tale of Two Cities."
 MAISIE RAMSAY, Soprano: "Polonaise"—Mignon (Ambrose Thomas).
 CLIFFORD LIGHTON, Bass: "The Trumpeter" (Lia).
 God Save the King.
 4.30 p.m.—Close down.

EVENING SESSION.

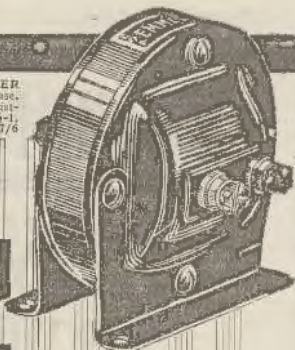
- 7.30 p.m.—Answers to Letters and Birthday Greetings by "BILLY BINNY."
 8 p.m.—"THE RED RIFLES" will now give their programme of Hymns and other Musical Items.
 Hymn, "Sun of My Soul."
 Solo: "A Maori Lullaby."
 Story, "The Clock Brownie" (by request), by Gertrude Hart, music by William G. Clark.
 "Lead, Kindly Light."
 Hymn, "A Little Prayer."
 8.25 p.m.—"BROTHER BILL."
 "Do not wait for opportunity, make it."
 8.45 p.m.—Hells from St. Paul's Cathedral.

NIGHT SESSION.

- SERVICE FROM COLLINS STREET INDEPENDENT CHURCH.
 Minister: Rev. J. ERNEST JAMES, B.D.
 Organist: HERBERT M. DAVIS.
 7 p.m.—Hymn 154. "Come, let us join our cheerful songs."
 Prayer.
 Lord's Prayer.
 Hymn 103. "Just as I am."
 Scripture lesson.
 Male quartette, "Rejoice" (Vanghas Williams).
 Prayer.
 Anthem, "The Wideness" (Goss).
 Offerings.
 Notices.
 Hymn 433. "I'm not ashamed to own my

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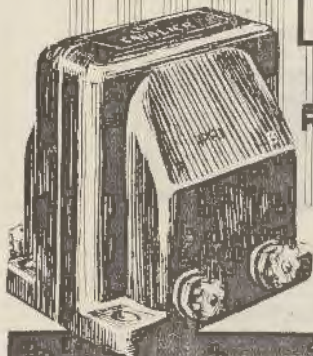
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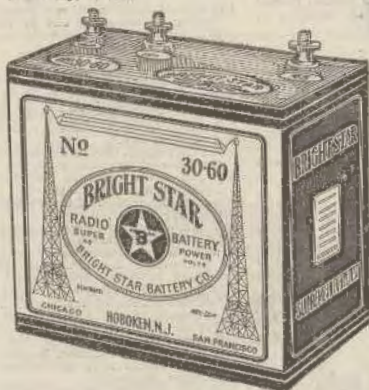
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6WF, PERTH.

Lord."
SERMON: REV. J. ERNEST JAMES, B.D.
Hyatt 4091 "Able with Me."
Benediction.

FROM THE STUDIO—
6.30 p.m.—MALVERN TRAMWAYS BAND:
March, "La Marche."
Overture, "March" (Flowing).

6.40 p.m.—J. ALEXANDER BROWNE,
Baritone:
"Oh, Mistress Mine" (Eager Quilter).
"Blow, Blow, Thru Winter Wind."

6.47 p.m.—STANLEY BAINES, Flute:
"Barcarolle" (Kremsl).
"Polka Caprice" (Frank).
6.54 p.m.—MALVERN TRAMWAYS BAND:
Chorus, "Hymn to Music (Dudley Bush).
THE HEALTH ASSOCIATION'S MESSAGE
TO YOU for today is:

"We must create a public opinion which
will drive the Government, instead of the
Government having to drive, as an en-
lightened public opinion, wise, in prin-
ciple, wise in details" (Florence Nightingale).

And THE ROYAL AUTOMOBILE CLUB OF
VICTORIA'S SAFETY MESSAGE for to-
day is for
"EVERYBODY to avoid that run-down
feeling, cross crossings recklessly."

9 p.m.—FIRST PERFORMANCE IN AUST-
RALIA OF ARIAS FROM "TURANDOT,"
A Chinese Opera, by Puccini. Arranged
by William G. James.

This Opera received its first production at
"La Scala" in Milan, in April, 1926, and
was acclaimed by the world's critics as
Puccini's greatest work.
Puccini died before this opera was com-
pleted. The last duet and finale of the
opera were composed by D. A. Alfano.

HORACE WHITE, Tenor:
"Nelson Dorne."

MIDDLIE SAFFO ARNAV, Soprano:
"Tu che sei per."

HORACE WHITE, Tenor:
"Non più per, Lei."

MIDDLIE SAFFO ARNAV, Soprano:
"Foglio del cielo."

6.30 p.m.—MALVERN TRAMWAYS BAND:
Morceau "Salut d'Amour" (Eclair).

6.25 p.m.—J. ALEXANDER BROWNE,
Baritone:

"Son of Mine" (Wm. Wallace).
(From Book of Freebottle Songs.)
"I Will Not Grieve" (Schumann).

6.32 p.m.—STANLEY BAINES, Flute:
Selected.
Piccolo, "The Wren" (Daniele).

6.40 p.m.—MALVERN TRAMWAYS BAND:
Informosa Soena, "In a Persian Market"
(Koschy).

6.45 p.m.—"Atrium" news service.
Announcements.

OUR GREAT THOUGHT:
"To the good reader; that makes the
good book; a good head cannot read amiss.
In every book be finds passages which seem
confidences or secrets hidden from all else
and unobtainably meant for his ear."
—Emerson.

10 p.m.—GOD SAVE THE KING.

5CL, ADELAIDE.

Sunday MORNING SESSION.

11 a.m.—Relay from the Pirie Methodist
Church Divine Service.
Preacher, Rev. J. G. Jenkins.

AFTERNOON SESSION.

4.18 p.m.—Relay from the Unley Methodist
Church.

EVENING SESSION.

6.40 p.m.—Clubs.

6.31 p.m.—Sunday Stories for Children.

6.55 p.m.—Relay from St. Bartholomew
Church, Norwood.
Preacher, Arch. Deacon Hoy.

9.15 p.m.—Sacred Concert.

9.30 p.m.—Mr. F. H. Nicholls will talk on
"Baal Religion."

6.40 p.m.—Announcements and close down.

Sunday.

10.45 a.m.—Tune in.

11 a.m.—Morning Church Service.
12.15 p.m.—Close down.

9.55 p.m.—Tune In.

A RELAY.

3 p.m.—Sunday School Anniversary Service,
relayed from Charles Street Methodist
Church, West Perth.

6 p.m.—Close down.

7 p.m.—Tune In.

7.5 p.m.—Children's bedtime stories.
1.50 p.m.—Evening Service, relayed from
Charles Street Methodist Church, West
Perth.

FROM THE STUDIO.

9.10 p.m.—After-church service.

10.8 p.m.—Close down.

7ZL, HOBART.

Sunday.

MORNING SESSION—11 a.m. to 12.15 p.m.

11 a.m.—Church Service from Memorial Con-
gregational Church, Hobart.
At conclusion of Church Service Balm Ex-
press Information.

AFTERNOON SESSION.

3.30 p.m.—Pleasant Sunday Afternoon Concert
from the Studio, under the direction of
Mrs. R. Bailey.

4.50 p.m.—Close down.

EARLY EVENING SESSION.

6.20 to 7 p.m.—Children's Corner, by the "Sun-
day Lady."

NIGHT SESSION.

7 p.m.—Church Service from St. David's Cathed-
ral, Hobart.
At conclusion of Church Service, Concert
from the Studio.

Miss Ruby Wallace (soprano).
Miss Ruby Bence (pianist).
Mr. T. Doo (baritone).

Mr. Hugh Taylor (soubrette).
Mr. R. Cooper (magnificence).

Mr. J. Bligh (sax soloist).

6.40 p.m.—The "Mercury" special Internatio-
nal service.

British Official Wireless News.
Ships within wireless range.

Station announcements.
National Anthem.

Monday, Oct. 3

2FC, SYDNEY.

MORNING SESSION.

HOLIDAY PROGRAMME.

10 a.m.—"Big Ben." Weather forecast and
Programme announcements.

10.5 a.m.—Studio music.

10.15 a.m.—"Sydney Morning Herald" news
service.

10.30 a.m.—Studio music.

10.45 a.m.—A talk on "Today's Racing at
Randwick," by the 2FC Commentator.

10.55 a.m.—Studio music.

11 a.m.—"Big Ben" and studio music.

11.5 a.m.—A.P.A. and Butler's Clubs.

11.15 a.m.—Studio music.

11.30 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" and announcements.

12.15 p.m.—Studio music.

12.30 p.m.—"Sydney Morning Herald" news
service.
Relay wireless news.

12.35 p.m.—Studio music.

NOTE: A complete description of the A.J.C.
Spring Meeting at Randwick will be given
by the 2FC Racing Commentator.

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

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

1.50 p.m.—Studio music.

NOTE: During Racing Intervals the follow-
ing Musical items will be heard:
The Sydney Theatre Orchestra, Pitt Street,
Sydney.

The Westworth Symphonic Dance Orches-
tra, under the baton of Mr. Cyril Kaye.

Tina Fagan, Novelty Pianist.

4.30 p.m.—A complete resume of the day's
events.

5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

6.40 p.m.—Programme announcements.

6.45 p.m.—The "Hello Man" talks to the chil-
dren.

6.50 p.m.—Fee the Young Folk: A Story by
Mr. J. R. Kinghorse.
"What the Hero Told Him."

6.40 p.m.—Studio music.

7 p.m.—"Big Ben." Weather Intelligence.

7.3 p.m.—"Evening News" late news service.

7.45 p.m.—A full description of to-day's Spring
Meeting at Randwick, told by the Special
2FC Racing Staff.

NIGHT SESSION.

7.50 p.m.—Programme announcements.

7.55 p.m.—Suebie Lashmore, instrumentalist.

8 p.m.—"Big Ben."

The Haymarket Operatic Orchestra, under
the baton of Mr. Stanley Porter.

8.20 p.m.—Items from the "Orphans' Wall"
(from the Warrington Hall).

8.40 p.m.—Description of the racing from the
Speedway Royal.

8.57 p.m.—Dagmar Thomson, violinist:
"Romance" (Reichberg).

9 p.m.—Latest weather forecast.

9.5 p.m.—Vocal Act from the Haymarket
Theatre.

9.50 p.m.—J. Pheloung, cornet solo:
"On the Shores of the Mighty Pacific"
(Clarke).

9.57 p.m.—Description of events from the
Speedway Royal.

9.58 p.m.—Suebie Lashmore, instrumentalist.

9.59 p.m.—Events from the Speedway Royal,
described in detail.

9.45 p.m.—Dagmar Thomson, violinist:
(a) "Chanson Louis XIV. aux ravines"
(Couperin-Kreutzer).

(b) "Minuet" (Pocpora-Kreutzer).

9.58 p.m.—Description of events from the
Speedway Royal.

9.57 p.m.—J. Pheloung, cornet solo:
"Golden Showers" (Clarke).

10.5 p.m.—Events from the Speedway Royal,
described in detail.

10 p.m.—The Haymarket Theatre Orchestra,
under the baton of Mr. Stanley Porter.

10.25 p.m.—The Westworth Symphonic Dance
Orchestra, conducted by Mr. Cyril Kaye.

10.30 p.m.—Len Maurice, popular baritone.

10.34 p.m.—The Westworth Symphonic Dance
Orchestra.

10.42 p.m.—Len Maurice, in popular numbers.

10.49 p.m.—The Westworth Symphonic Dance
Orchestra.

10.54 p.m.—Len Maurice, baritone.

10.57 p.m.—Late news and announcements.

11 p.m.—"Big Ben."
The Westworth Symphonic Dance Orches-
tra.

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



-all the notes

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ATM
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BBC

2BL, SYDNEY

Monday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 11 a.m.—G.P.O. Clock and Chimes.
Musical programme from the Studio.
11.15 a.m.—News from the "Daily Telegraph" Fictorial.
11.25 a.m.—Musical programme from the Studio.
11.35 a.m.—News from the "Daily Telegraph" Fictorial.
11.45 a.m.—G.P.O. Clock and Chimes.
Musical programme from the Studio.
11.55 a.m.—News from the "Daily Telegraph" Fictorial.

AFTERNOON SESSION.

- Racing information broadcast immediately after each race, by courtesy of the "Sun."
12 noon—G.P.O. Clock and Chimes.
Special Ocean Forecast and Weather report.
12.30 p.m.—Brunswick Panatrops Musical Recital.
12.30 p.m.—News from the "Sun."
12.35 p.m.—Sporting and athletic fixtures.
12.25 p.m.—What's on at the Pictures and Theatres.
12.30 p.m.—Musical programme from the Studio.
12.40 p.m.—News from the "Sun."
12.45 p.m.—Racing resume.
12.55 p.m.—Musical programme from the Studio.
1 p.m.—G.P.O. Clock and Chimes.
Musical programme from the Studio.
1.10 p.m.—Sporting Talk and Athletic fixtures, for the day.
1.30 p.m.—Musical programme from the Studio.
1.30 p.m.—G.P.O. Clock and Chimes.
Talk to Children and Special Entertainment for Children in Hospital.
2 p.m.—G.P.O. Clock and Chimes. Serial Story.
2.15 p.m.—Musical programme from the Studio.
2.25 p.m.—Racing resume.
2.30 p.m.—G.P.O. Clock and Chimes.
News from the "Sun."
During the afternoon Sporting information will be broadcast by courtesy of the "Sun," interspersed with Musical items and broadcasting of Football matches.
3 p.m.—G.P.O. Clock and Chimes.
Racing resume.
3.5 p.m.—Close down.

EARLY EVENING SESSION.

- 6.45 p.m.—G.P.O. Clock and Chimes.
Children's Session.
6.30 p.m.—Musical programme from the Studio.
7.15 p.m.—Result of all Sporting and Athletic fixtures.
7.30 p.m.—Country news from the "Sun."

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
Broadcasters' Topical Chorus.
8.8 p.m.—An Hour's Programme presented by Lindalva's Wives.
Sid and Molly Owen and Jack Netherlands in a Medley of Jaws.
8.23 p.m.—Miss Buntz Stuart (Scottish contralto).
8.30 p.m.—Mr. Henri de Liège (Violinist).
8.37 p.m.—A Song Recital by Madame Goussens-Vicery.
8.57 p.m.—Mr. Sydney Hollister (Comedian).
9.4 p.m.—Weather report and Forecast, by courtesy of Mr. C. J. Maron, Govt. Meteorologist.
9.5 p.m.—Cec. Morrison and His Chorus-chasers broadcast from the Ballroom of The Bondi Casino.
9.15 p.m.—Mr. Bert Gilbert (Comedian).
Another Adventure of Mr. Hogroff.
9.30 p.m.—Cec. Morrison and His Chorus-chasers broadcast from the ballroom of The Bondi Casino.

- 9.40 p.m.—Broadcasters' All Sports Expert will talk on General Sporting.
9.55 p.m.—Cec. Morrison and His Chorus-chasers broadcast from the Ballroom of The Bondi Casino.
10.5 p.m.—Miss Buntz Stuart.
10.12 p.m.—Mr. Henri de Liège.
10.19 p.m.—Cec. Morrison and His Chorus-chasers broadcast from the Ballroom of The Bondi Casino.
10.29 p.m.—Mr. Sydney Hollister.
10.36 p.m.—Cec. Morrison and His Chorus-chasers broadcast from the Ballroom of The Bondi Casino.
10.46 p.m.—Resume of following day's programme.
10.50 p.m.—Cec. Morrison and His Chorus-chasers broadcast from the Ballroom of The Bondi Casino.
11 p.m.—G.P.O. Clock and Chimes, National Anthem.

2GB, SYDNEY

Monday.

- 7 a.m.—Music.
7.6 p.m.—Address.
7.15 p.m.—Instrumental Trio.
7.30 p.m.—National Association of N.S.W.
8 a.m.—Instrumental Trio.
8.15 p.m.—Songs by Rupert Marshall.
1. "Mountain Lovers" (Forster).
2. "Comes of England" (German).
8.23 p.m.—Piano solos by Ada Brook.
1. "Prelude" (Berrie Solomon).
2. "Concert Study D flat" (Liszt).
8.30 p.m.—Songs by Gladys Blake.
1. "Thank God for a Garden" (Joa Reijo).
2. "The Last Rose of Summer."
8.37 p.m.—Violin solo, Dan Scully.
"Prelude and Adagio from Concerto" (Max Broek).
8.43 p.m.—Instrumental Quartet.
Dan Scully, Monica Herder, Marjorie Lang, Ada Brook.
9 p.m.—Address, Rev. R. E. S. Hammond.
"Mending Broken Men."
9.15 p.m.—Songs by Rupert Marshall.
1. "The Glory of the Sea" (Sanderson).
2. "Where'er you walk" (Handel).
9.23 p.m.—Instrumental Quartet.
Dan Scully, Monica Herder, Marjorie Lang, Ada Brook.
9.35 p.m.—Songs by Gladys Blake.
1. "Bob and Eric were the puns she wore."
2. "The Belle of Aberystwyth."
9.45 p.m.—Address by National Association of N.S.W.
10 p.m.—Close down.

2UW, SYDNEY

Monday.

- MORNING SESSION.
9 a.m.—News, Shipping, Mail, Musical Items.
9.45 a.m.—Women's Session.
9.50 a.m.—Resume of forward programme.
10 a.m.—Close down.
- AFTERNOON SESSION.
2 p.m.—Musical Items.
2.59 p.m.—Resume of forward programme.
3 p.m.—Close down.
- EVENING SESSION.
6 p.m.—Studio items.
6.09 p.m.—Resume of forward programme.
6.20 p.m.—Close down.
7 p.m.—Where to Go.
7.30 p.m.—Special Musical Programme, arranged by Professor G. Szasz.
8.15 p.m.—Studio music.
9.23 p.m.—Resume of forward programme.
9.30 p.m.—Close down.

3LO, MELBOURNE.

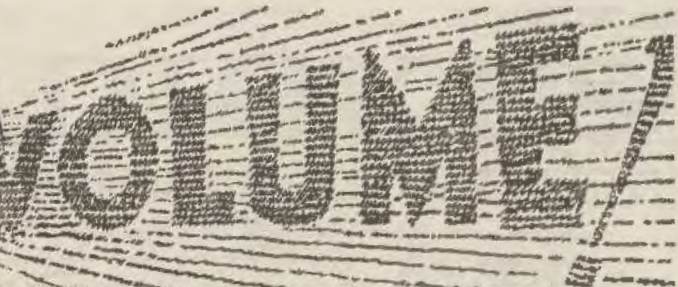
Monday

MIDDAY SESSION.

- 12 noon.—Time signal. Detach Official Wireless News from Rugby. British and the Australian Press Association cables.
"Aragu" news session.
12.30 p.m.—JOE ARONSON AND HIS SYNCRO-SYMPHONISTS:
"Just the Same" (Donizetti).
"Shee-Boo" (Kiki).
"Half a Mouth is Better than No Mouth" (Teymaly).
12.35 p.m.—We have much pleasure in introducing to you:
(By permission of J. C. Williamson, Ltd.):
VERA SPAULL, ambrette:
"Monday."
"Short and Sweet."
12.37 p.m.—Stock Exchange Information.
12.40 a.m.—JOE ARONSON AND HIS SYNCRO-SYMPHONISTS:
"Go Wash an Elephant if You Wanna do Something Big" (Tinker).
"Is a Little Spanish Town" (Wayne).
"The Birth of Blues" (Henderson).
12.50 p.m.—ANITA SHAW, comedienne:
Humorousities.
"Duffing and Dreaming" (West).
"It's His ONE O'CLOCK."
"I'm in one little word, our life, what is that—today" (Diaper).
11 a.m.—JOE ARONSON AND HIS SYNCRO-SYMPHONISTS:
"Me Too Ha Ha Ho Ho" (Brown).
"Sweetie & Mine" (Hagan).
110 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecasts for Kaituma, Kaituma for Victoria, Tasmania, South Australia and New South Wales.
1.17 p.m.—JOE ARONSON AND HIS SYNCRO-SYMPHONISTS:
"Oh, What a Pal was Whoozis" (Kahn).
"Cheerle Beeze Be from Sunny Lady" (Lewie).
"Take in the Sun" (Wood).
1.27 p.m.—ANITA SHAW, comedienne:
"Are You Serry?"
"O, the Bear."
1.31 p.m.—JOE ARONSON AND HIS SYNCRO-SYMPHONISTS:
"Whipped Cream," piano solo (Looge).
"The Village Blacksmith" (Mouss).
"Wha" (Kern).
1.44 p.m.—VERA SPAULL, ambrette:
"Ain't Got Nobody."
"Behind the Clouds."
1.51 p.m.—JOE ARONSON AND HIS SYNCRO-SYMPHONISTS:
"Two Little Bluebirds" (Kern).
"Kennedy Lullaby" (Miller).
"I've Got the Girl" (Donizetti).
2 p.m.—Close down.

AFTERNOON SESSION.

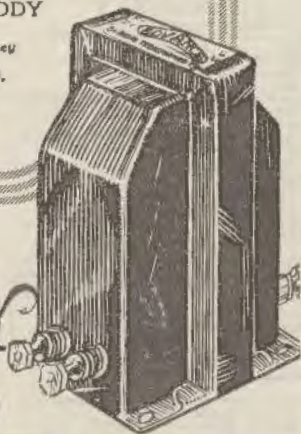
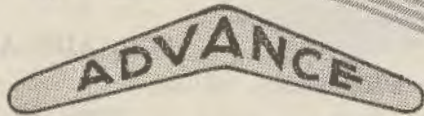
- During the afternoon the results of the Richmond Football Race will be given as they come to hand.
2 p.m.—STUDIO QUARTET:
"Spring Song" (Mendelssohn).
2.30 p.m.—MRS. DOROTHY SILK:
"Homestead."
2.35 p.m.—DOROTHY ROXBURGH, viola:
"Spring's Awakening" (Rach).
2.38 p.m.—MILLEN CARTER, soprano:
"The God I Was the Tender Apple blossom" (Londonderry Air).
"Rose Softly Blooming" (Old English).
2.40 p.m.—STUDIO QUARTET:
"Woodland Wren" (Charles Smith).
2.47 p.m.—BOBBY PARCE, baritone:
"The Floral Dance" (Moss).
"Roses, Roses Everywhere" (Trotter).
2.54 p.m.—FANNY TERRYAN, tenor:
"Song without Words" (Mendelssohn).
"Clear details" (Faullard).
4 p.m.—STUDIO QUARTET:
Overture, "A May Day" (Haydn Wood).



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17/6

- 4.10 p.m.—BOBBY PEARCE, baritone: "The Blind Ploughman" (Clarke). "Melancton in the Wood" (Götz).
- 4.17 p.m.—AGNES FORTUNE, piano: "Tea a Water Lily" (McDowell).
- 4.24 p.m.—EILEEN CASTLES, soprano: "Leaves in the Wind." "Rottenberg" (Schier).
- 4.30 p.m.—MISS FLORA PELL, Inspector of Schools: "Domestic Science."
- 4.45 p.m.—"Herald" news service. Stock Exchange information.
- 5 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

- 4.30 p.m.—Acceptance for Wednesday's Bales at Sandown Park Finesse Hunt Club.
- 4.35 p.m.—ANSWERS to children's letters and happy birthday messages to all by "LITTLE MISS KOOKABURRA."
- 4.45 p.m.—STUDIO QUARTET: "March of the Boy Scouts" (Schaefer).
- 4.55 p.m.—GWEN HUMPHREY, contralto: "Kiddie." "Maiden."
- 5.05 p.m.—MISS M. SHEPHERD has some more strange stories to tell the children.
- 5.25 p.m.—GWEN HUMPHREY, contralto: "A Persian Story of Boying" (Harms). "Daffodil Gold" (Hedgeway).
- 5.40 p.m.—Official reports of Newmarket Stock Sales by the Associated Stock and Station Agents, Houghton, Melbourne. Number of sheep and cattle drawn for week's sale.
- 5.45 p.m.—"Herald" news service.
- 5.55 p.m.—Stock Exchange information.
- 6.00 p.m.—River reports.
- 6.10 p.m.—Fish Market reports by J. R. Doolan, Ltd. Rabbit prices.
- 7.2 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.: Potatoes, grain, hay, straw, tute, dairy produce, position and prices. Market reports of fruit.

NIGHT SESSION.

- 7.15 p.m.—Under the auspices of the Boy Scouts' Association: DEPUTY CHIEF COMMISSIONER DR. C. G. MADDAM: "Rovering."
- 7.30 p.m.—MR. F. C. H. TAYLOR will speak to boys and girls: "School Life and School Sports."
- 7.45 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MR. J. T. RAMSAY, Potato Experts, will speak on: "Planting the Potato Crop."
- 8 p.m.—Announcements.
- 8.5 p.m.—THE HEALTH ASSOCIATION is interested in YOU. It would have you realize that: "A satisfactory diet is essential for the development of a sound set of teeth."—McCollum.
- 9.0 p.m.—STUDIO PRESENTATION of the Searchlight of the Springtime: "THE MERRY WIDOW" adapted from the German of Victor L'Herminier and Leo Stein. Lyrics by Adrien Boes. Music by Franz Lehár. Characters: Viscount Camille de Valentin, HORACE WHITE. Marquis de Casade, BEN MILLER. M. de St. Etienne, JOHN DONOVAN. General Nekrskovik (military attaché), Nick (messenger to the Legation), MAURICE DUDLEY. M. Khadia (Councillor Legation), CHARLES HORSING. Prince Danilo (Secretary of Legation), HUGH HUMPHAM. Baron Popoff (Munrovin Ambassador in Paris), ALFRED ANDREW. Walter at Moscow, FRED BISHOP. Natalie (wife of Popoff), EDITH SUKHAM. Olga (wife of Nekrskovik), JEAN KELLY. Sbirnovin (wife of Natalia), IVY CARLWY. Penkovita, Lolo (Gikn at Moscow), MERLE GREEN. Sonia (The Merry Widow), RAFFO ARNAV.

MUSICAL NUMBERS.

ACT I.

- Opening Chorus: New Ladies and Gentlemen.
- Duet: "Duet." "Duet (Natalie and Camille): A Duetful Wile (We are alone, there's no one here). Entrance Song (Sonia and Chorus): "In Marviva (Ladiesmen, I pray! We cannot starve ourselves away). Ball music.
- Song (Duolet): "Maxim's! (My fatherland, I sing for thee)." "Finale (Ladies' chorus, that's the universal voice).

ACT II.

- Opening chorus and songs: "I bid thee wait here for a minute." "Song (Sonia), "Viva" (There was once a Duke, a wretch of the world). "Duet (Sonia and Danilo): "The Cavalier" (Hail, maiden! See him ride). "Marche-Opérette, "Women" (Oh, the women! Oh, the women!) "Duet (Sonia and Danilo). "Duet (Natalie and Camille), and Oh, see us more! "Romance (Camille), "Love in my heart" ("Love in My Heart Awakening). "Finale (Hail to us! Well, gentlemen, what is your will!)

ACT III.

- Opening scene: "Cake Walk." Ball music.
- Noni-Noni.
- Duet (Sonia and Danilo): "I Love You So" (Though I say not what I may not let you hear). "Finale: (You may study but ways so you can).

- 14.15 p.m.—"Argus" news service. Announcements. Meteorological information. British official wireless information.
- 14.30 p.m.—AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY to the MOTORISTS: "You just succeed in it, but you may not be so lucky next time. Drive as you would have the other fellow drive."
- 14.35 p.m.—ANITA SHAWNE, contralto: "Green & Lullaby."
- 14.40 p.m.—"Who's where my Baby is To-night?"
- 14.45 p.m.—JOE ARNOLD AND HIS SYNGO-SYMPHONISTS.
- 14.50 p.m.—ANITA SHAWNE, contralto: "Rhapsodies from her repertoire."
- 14.55 p.m.—JOE ARNOLD AND HIS SYNGO-SYMPHONISTS.
- 15 p.m.—OUR GREAT THOUGHT: "All that we are is the result of what we have thought: it is founded on our thoughts. It is made up of our thoughts. If a man speaks or acts with an evil thought, pain follows him, as the wheel follows the foot of him who draws the carriage."—Buddha.
- 15.1 p.m.—JOE ARNOLD AND HIS SYNGO-SYMPHONISTS.
- 15.15 p.m.—"GOD SAVE THE KING"

4QG, BRISBANE

Queensland Radio Service. Wave Length, 885 Metres.

Monday.

- MIDDAY SESSION. 1 p.m. to 2 p.m.
- AFTERNOON SESSION. FROM HOTEL-CARLTON. 2.50 p.m.—Afternoon tea music played by Hotel Carlton Symphonic Orchestra.
- 3.15 p.m.—THE STUDIO. 4.15 p.m.—News service supplied by "The Telegraph."
- 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 7 p.m.—News service supplied by "The Daily Mail."
- 7.15 p.m.—Lecturers: A World Call Talk—"How to be"—by the Rev. H. W. McGavin.
- 7.30 p.m.—The children's session—stories by "The Sandman."
- 7.45 p.m.—Daily reports. Stock reports.
- 7.50 p.m.—Weather news. "Daily Bird" news.
- 7.55 p.m.—Standard time signals.
- 7.58 p.m.—Lecturers: "Pip Clut Ego!" by Mr. E. J. Shullen (Instructor in Pip Balancing).

NIGHT SESSION.

ORGAN RECITAL.

Portion of the organ recital by Mr. Geo. Simpson, F.R.C.O., (City Organist) will be relayed from the City Central. 8.00 p.m.—ST. JOHN'S CATHEDRAL.—8 p.m.—Organ recital. BRIGBANE LISTEDPOD CHOIR. FROM THE SCHOOL OF ARTS. 8.45 p.m.—A short choral recital by the Brisbane Identified Choir (conductor, Mr. F. Robinson), including: (a) "Lullaby," (b) "Chorus in the Snow" (Pfeifer), (c) "Lullaby" (Pfeifer), (d) "Lullaby" (Pfeifer), (e) chorus, "The Nations" (Mendelssohn).

STUDIO PROGRAMME.

- 8.15 p.m.—Overture, "Maid and Minstrel" (Greenwald), the Clarwin Orchestra; soprano solo, "Love Me Now" (from "The Blue Bird"), Emily Mrs. Roll; violin solo, "Serenade" (Pierce), Miss Winnie Trallock; contralto solo, "Fairly Pipers" (Brewer), Miss Dorothy Brown; selection, "Marie Malady" (Rosenberg), the Clarwin Orchestra; Hawaiian instrumentalists, in selected numbers, the 4QG Hawaiianists; monologues, "A Buckwood Song" Miss Nell Douglas Graham; violin solo, "The Blue Bird" (Hoff), Miss Winnie Trallock; soprano solo, "Haven of Tenderness" (Gordon), Mrs. Robt. Bell; group of popular numbers, the Clarwin Orchestra; soprano solo (a) "The Blue Bird" (Hoff), (b) "Valis Ron" (Bosno and Julliet), (c) "Gounod", Miss Jill Manners; ten minutes with Henry Lawson, "Out Back" and "Bill", Mr. Claude Walker; contralto solo, "Heap of Deep Love" (Waltley), Miss Dorothy Brown; Hawaiian instrumentalists, the 4QG Hawaiianists; monologue, "Old Ferozi", Miss Nell Douglas Graham; Hawaiian instrumentalists, the 4QG Hawaiianists; march, "The Wallabies" (Lithgow), the Clarwin Orchestra.
- 10 p.m.—"The Daily Mail" news. Weather.
- Close down.

5CL, ADELAIDE.

- Monday. MORNING SESSION. 15 noon.—Chimes.
- 15.1 p.m.—Musical items.
- 15.2 p.m.—"Advertiser" News Service.
- 15.25 p.m.—Musical items.
- 15.30 p.m.—"Advertiser" News Service.
- 15.35 p.m.—Musical items.
- 15.40 p.m.—"Advertiser" News Service.
- 15.45 p.m.—Musical items.
- 15.50 p.m.—"Advertiser" News Service.
- 15.55 p.m.—Musical items.
- 15.58 p.m.—"Advertiser" News Service.
- 15.59 p.m.—Market Reports, Meteorological information.
- 2 p.m.—Chimes.

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AFTERNOON SESSION.

- 3 p.m.—Chimes.
 3.1 p.m.—Relay from the Maple Leaf Cafe:
 Orchestral selections.
 3.45 p.m.—From the Studio:
 Madame Lambert, dramatic soprano.
 4 p.m.—Chimes.
 4.1 p.m.—Relay from the Avenida Cafe:
 Orchestral selections.
 4.55 p.m.—Station announcements.
 Messrs. S. C. Ward and Co.'s Stock Exchange Intelligence.
 5 p.m.—Chimes.

EVENING SESSION.

- 6 p.m.—Chimes.
 6.1 p.m.—Relay from the Covent Garden
 Restaurant Dinner Music.
 6.30 p.m.—Bedtime Stories.
 7 p.m.—The Drawing Competition.
 Chart No. 5 will be directed by Mr. J. H.
 Chinner.
 7.20 p.m.—Messrs. S. C. Ward and Co.'s
 Stock Exchange Intelligence.
 Market Reports by Messrs. A. W. Sandford
 and Co., A. E. Hall and Co., Dalkey and
 Co., S.A. Farmers' Co-operative Union,
 Taylor Bros., Retail Grocers' Association.
 J. H. Young's special report on the Toronto
 Market.
 Interstate Fruit and Produce Market Com-
 pany, Ltd.
 7.30 p.m.—"Criticism" will talk on this week's
 pictures.
 7.35 p.m.—A Lecture.
 7.50 p.m.—Mr. David Unipon will talk on the
 Aborigines Protection League.
 8 p.m.—Chimes.
 8.1 p.m.—Relay from the Adelaide Town Hall:
 500 Voices Children's Choir.
 Interspersed with vocal numbers by Mrs.
 Keith Seward (soprano).
 Madame Lambert, dramatic soprano.
 Mr. F. G. Gueter, basso.
 Studio Orchestra.
 10 p.m.—"Advertiser" News Service.
 Wireless Shipping.
 Remise of the program (Saturday's Sporting
 10.15 p.m.—Studio Orchestra.
 10.30 p.m.—Relay from Glenelg:
 The Maffeo Dance Band.
 11.15 p.m.—"Tomorrow" programme.
 Station announcements.
 Meteorological information.
 National Anthem.

6WF, PERTH.

Monday.

- 12.30 p.m.—Tune in.
 12.35 p.m.—Markets, News, and Cables.
 1 p.m.—Time signal from Perth Observatory.
 1.15 p.m.—Weather notes, supplied by the
 Meteorological Bureau of Western Australia.
 1.5 p.m.—Studio Quintette.
 2 p.m.—Close down.
 2.45 p.m.—Tune in.
 3.25 p.m.—Musical programme from the Studio.
 Afternoon Tea Concert, including vocal and
 instrumental numbers, relayed from the
 Carlton Cafe, Hay Street.
 4.30 p.m.—Close down.
 6.45 p.m.—Tune in.
 6.50 p.m.—Short Stories for the Kiddies, by
 Uncle Henry and Duffy.
 7.45 p.m.—Stocks, Markets, News.
 7.55 p.m.—Opening overture, played by the
 Grand Symphony Orchestra, conducted by
 Mr. Val Smith, relayed from the Grand
 Theatre, Murray Street.
 8 p.m.—Time signal from Perth Observatory.
 8.1 p.m.—Weather notes, supplied by the
 Meteorological Bureau of Western Australia.

CONCERT NIGHT.

- 8.3 p.m.—Musical programme from the Studio,
 including vocal and instrumental numbers.
 Orchestral Selections by the Grand Sym-
 phony Orchestra, conducted by Mr. Val
 Smith, relayed from the Grand Theatre,
 Murray Street.
 10 p.m.—Late News items, by courtesy of "The
 Daily News" Newspaper Co.
 Ships within range announcement.
 Weather report and forecast.

- 10.30 p.m.—Close down.
 100 METRE TRANSMISSION.
 Simultaneous Broadcast on 100 Metres of
 Musical programme given on 1250 Metres,
 commencing at 8 o'clock.

7ZL, HOBART

Monday.

- MORNING SESSION—11 a.m. to 12 noon.
 4.1 p.m.—Tune in selector.
 4.5 p.m.—Hobart Stock Exchange quotations.
 Weather Information.
 Items of interest: Announcements.
 3.15 p.m.—Orchestral Selections by 7ZL Trio.
 4.15 p.m.—Fashion Talk by "Aunt Ethna" of
 Brownells, Ltd., Hobart.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6.30 p.m.—Children's Corner:
 "Uncle Henry" talk-show.
 7 p.m.—"Uncle Henry" talks to the children.

NIGHT SESSION.

- 7.30 p.m.—Musical Selection.
 7.35 p.m.—Physical Culture Talk by Eleutenant
 Reginald McKeon.
 7.50 p.m.—"Mercury" special Tasmanian news
 service.
 Railway Accident Produce Sales.
 Weather forecasts.
 Hobart Stock Exchange quotations.
 8 p.m.—G.P.O. Clock Chimes.
 8.1 p.m.—Vocal and instrumental numbers from
 Findlay's Music Showroom, Elizabeth Street,
 Hobart.
 8.34 p.m.—"Mercury" special interstate news
 service.
 Tasmanian District Weather Reports.
 9 p.m.—Weather forecasts.
 Station announcements.
 National Anthem.

Tuesday, Oct. 4
2FC, SYDNEY.

EARLY MORNING SESSION.—7 to 8 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
 10.45 a.m.—Studio music.
 11.15 a.m.—"Sydney Morning Herald" news
 service.
 10.30 a.m.—Studio music.
 10.35 a.m.—A talk on the latest Sporting
 Information, by the SFC Commissioner.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben."
 Matching music for school children.
 11.15 a.m.—A.E.A. and Beulah's Cables.
 11.40 a.m.—Studio music.
 11.15 a.m.—A talk on Home Cooking and Re-
 cipes, by Miss Ruth Fursl.
 11.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
 12.2 p.m.—Stock Exchange, first call.
 12.3 p.m.—Official weather forecast, rainfall.
 12.5 p.m.—Studio music.
 12.10 p.m.—Summary of "Sydney Morning
 Herald" news service.
 Rugby wireless news.
 12.35 p.m.—Studio music.
 12.40 p.m.—Marching music for school chil-
 dren.
 12.40 p.m.—Daniel Hardy, baritone.
 12.45 p.m.—The Oak Hall Instrumental Trio.
 12.50 p.m.—Studio music.
 1 p.m.—"Big Ben." Weather intelligence.
 Producers' Distributing Society's Report.
 1.5 p.m.—"Evening News" midday news ser-
 vice.

- 1.20 p.m.—The Oak Hall Instrumental Trio.
 1.25 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching music for school children.
 1.45 p.m.—Daniel Hardy, baritone.
 1.50 p.m.—Studio music.
 1.55 p.m.—The Oak Hall Instrumental Trio.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
 3.5 p.m.—A Recital by the Pianoforte Pupils
 of Miss Jessie Williams.
 Continuation of the Recital by Miss Jessie
 Williams' pupils.
 3.50 p.m.—Marching music for school children.
 2.10 p.m.—Doris Crossman (contralto).
 "There let me Rest" (Green) (with violin
 obligato).
 3.45 p.m.—The Oak Hall Instrumental Trio
 (Leader, Mr. Horace Keats).
 3.50 p.m.—Wilfrid Woodbury, tenor:
 "Sembrata" (Toselli).
 4 a.m.—Gladya Aubin, soprano.
 4.15 p.m.—The Oak Hall Instrumental Trio.
 4.25 p.m.—Nancy Wesley, contralto.
 4.30 p.m.—Doris Crossman, contralto;
 "La Sorellina" (D'Almeida) (with violin
 obligato).
 4.35 p.m.—The Oak Hall Instrumental Trio.
 4.35 p.m.—Wilfrid Woodbury, tenor:
 "Thy Beaming Eyes" (McDowell).
 4.40 p.m.—Gladya Aubin, soprano.
 4.45 p.m.—Miss Katherine, first call.
 4.47 p.m.—Nancy Wesley, contralto.
 4.48 p.m.—The Westworth Symphonic Dance
 Orchestra, under the baton of Mr. Cyril
 Kaye.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 6.40 p.m.—The Times of 2FC.
 6.45 p.m.—The "Hills Man" talks to the chil-
 dren.
 6.50 p.m.—Story time for the Young Folk.
 6.55 p.m.—Studio music.
 7 p.m.—Late sporting news.
 7 p.m.—"Big Ben."
 Daley's market reports (wool, wheat and
 stock).
 7.5 p.m.—Fruit and vegetable markets.
 7.55 p.m.—Weather and shipping news.
 7.55 p.m.—Late "Evening News" news ser-
 vice.
 NIGHT SESSION.

- 7.30 p.m.—Programme announcements.
 7.35 p.m.—Miss B. J. Williams, of the Sydney
 University, will talk on "Women and Uni-
 versity Life."
 7.44 p.m.—Eden and Jack Landersou enter
 talents.
 (a) "Tonight's my night with Bakh."
 (b) "Are you gonna be home to-night."
 7.52 p.m.—Edna Dowse, violinist.
 7.57 p.m.—Jack Dunn, baritone:
 "The Love of Silenus" (Finde).
 (b) "Lake in Spain" (Lombardo).
 8.10 p.m.—From the Sydney Town Hall:
 A Public Debate, arranged by the Sydney
 School of Arts Debating Club, on the subject
 of Prohibition.
 Late weather forecast.
 10 p.m.—"Big Ben."
 Nellie Chadwick, soprano:
 "The Love of Silenus" (Finde).
 (b) "A Coronet" (Quilter).
 10.8 p.m.—Eden and Jack Landersou enter
 talents:
 (a) "Look speakin' Papa."
 (b) Piano and harjo novelties.
 10.15 p.m.—Edna Dowse, violinist.
 10.24 p.m.—Jack Dunn, baritone:
 "The Love of Silenus" (Finde).
 (b) "That world is mine" (Duggan).
 10.50 p.m.—The Westworth Symphonic Dance
 Orchestra, under the baton of Mr. Cyril
 Kaye.
 10.37 p.m.—Eden and Jack Landersou enter
 talents.
 10.44 p.m.—Nellie Chadwick, soprano:
 (a) "Are Maria" (Kuhn).
 (b) "Sunday" (Finde).
 10.50 p.m.—The Westworth Symphonic Dance
 Orchestra, under the baton of Mr. Cyril
 Kaye.

Even greater value!

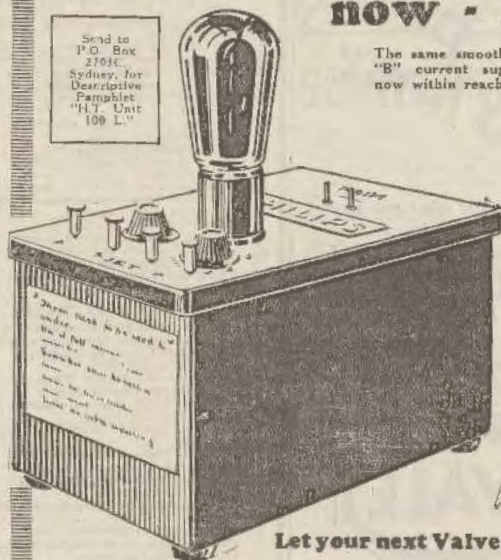
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10.57 p.m.—Late news and announcements.
11 p.m.—"Ely Ben."
The Wonthorpe Symphonic Dance Orchestra in popular numbers until 11.50 p.m.
11.50 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

Tuesday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. clock and chimes.
Musical programme from the Studio.
10.40 a.m.—News from the "Daily Telegraph Historical."
10.50 a.m.—Musical programme from the studio.
11 a.m.—G.P.O. clock and chimes.
ANNOUNCEMENTS.
11.15 a.m.—Social notes. Replies to correspondents by Mrs. Jordan.
Talk on "What is Paralysis" by Mr. Adams, A.M.A.
12 noon.—G.P.O. clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Brunswick Paratrope musical recital.
12.15 p.m.—Information. Mails, shipping and port directory.
12.15 p.m.—News in call by wireless.
12.20 p.m.—Fruit market report.
12.22 p.m.—Vegetable market report.
12.24 p.m.—London metal market report.
12.26 p.m.—Dairy and farm produce market report.
12.30 p.m.—G.P.O. clock and chimes.
Forage market report.
12.32 p.m.—Fish market report.
12.34 p.m.—Rabbit market report.
12.38 p.m.—Stock Exchange report.
12.38 p.m.—News from the "Sun."
12.45 p.m.—Miller's Instrumental Quartet—Director, Cyril Castling.
1.25 p.m.—Stock Exchange report.
1.30 p.m.—G.P.O. clock and chimes.
Talk to children and social entertainment for children in hospital.
2 p.m.—G.P.O. clock and chimes.
Close down.

AFTERNOON SESSION.

Racing information broadcast immediately after each race, by courtesy of the "Sun."
2 p.m.—G.P.O. clock and chimes.
News from the "Sun."
2.15 p.m.—Civil Service Stores Trio—Director, Miss de Courcy Bremer.
2.35 p.m.—G.P.O. clock and chimes.
News from the "Sun."
2.40 p.m.—Musical programme from the Studio.
2.50 p.m.—News from the "Sun."
4 p.m.—G.P.O. clock and chimes.
Civil Service Stores Trio.
4.15 p.m.—Serial Story.
4.35 p.m.—Musical programme from the Studio.
4.55 p.m.—News from the "Sun."
4.55 p.m.—Resume of night's programme.
4.57 p.m.—Racing resume.
4.59 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.
Children's session.
6.50 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").
 N.E.M.A. talk.
 7.15 p.m.—Country news from the "Sun".
 7.20 p.m.—Talk by a member of the Listener-in League.
 7.40 p.m.—Talk by Dr. Makihono on "Ten-tilts."
 8 a.m.—G.P.O. clock and chimes.
 Broadcasters' Typical Chorus.
 8.3 p.m.—Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.
 8.11 p.m.—Miss Marjorie Skill, soprano.
 8.18 p.m.—Mr. Haagen Holmberg, pianist.
 8.25 p.m.—Mr. Alfred Wilmore, tenor.
 8.35 p.m.—Miss Florence Forshaw, viola soloist.
 8.42 p.m.—Miss Heather Kinnaird, contralto.
 8.49 p.m.—Mr. J. M. Post, alto soloist.
 8.58 p.m.—Broadcasters' Light Orchestra.
 9.5 p.m.—Weather report and forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.
 9.7 p.m.—Miss Marjorie Skill.
 9.14 p.m.—Mr. Haagen Holmberg.
 9.24 p.m.—Mr. Alfred Wilmore.
 9.31 p.m.—Miss Florence Forshaw.
 9.38 p.m.—Broadcasters' Light Orchestra.
 9.48 p.m.—Mr. Haagen Holmberg.
 9.55 p.m.—Mr. J. M. Post.
 10.2 p.m.—Resume of following day's programme.
 10.6 p.m.—Broadcasters' Light Orchestra.
 10.15 p.m.—The Ambassadors' Dance Band broadcast from the ballroom of the Ambassadors. During intervals between dances, "Sun" news will be broadcast.
 12 midnight.—G.P.O. clock and chimes.
 National Anthem.

2 UW, SYDNEY

Tuesday.

MORNING SESSION.

9 a.m.—News, Shipping, Mail, Musical Items.
 9.45 a.m.—Women's Session.
 9.59 a.m.—Resume of forward programme.
 10 a.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Mr. Palmer-Kent, Pianoforte solos.
 2.6 p.m.—Professor Sauer, Violin solos.
 2.12 p.m.—Studio Items.
 2.59 p.m.—Resume of forward programme.
 3 p.m.—Close down.

EVENING SESSION.

5 p.m.—Studio Items.
 5.59 p.m.—Resume of forward programme.
 6 p.m.—Close down.

NIGHT SESSION.

7 p.m.—Where to Go.
 7.15 p.m.—Studio Items.
 7.30 p.m.—Talk on Motors, by Mr. Greenwood.
 7.45 p.m.—Studio Items.
 8 p.m.—"Gems of the Opera," No. 8, "Traviata" (Verdi), by George F. Manouf.
 9 p.m.—Studio Items.
 9.29 p.m.—Resume of forward programme.
 9.30 p.m.—Close down.

3LO, MELBOURNE.

Tuesday.

MIDDAY SESSION.

12 noon.—Time signal. Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange (this day). British official wireless news from Rugby, Reuters' and the Australian Press Association cables. "Argus" news service.
 12.15 p.m.—COMMUNITY SINGING from the STUDIO, conducted by Mr. G. J. MACKAY, assisted by the STUDIO QUARTET. (Conductor, REGINALD BRADLEY.)

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1 Macbruan Tone Purifier	1 40025 Variable Condenser, Adv.	21/-
1 40025 Variable Condenser, Adv.	1 Radiokos Kit, split primary screened coils	5/6
1 Radiokos Kit, split primary screened coils	1 40025 Variable Condenser, Adv.	21/17/6
1 40025 Variable Condenser, Adv.	1 Vernier Dial	4/6
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1 D.4 Valve, "Phillips" Special Detector	7/-
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2 0005 Advance Contraint, ea.	22/6	1 Wireless 9043 Condenser	1/6
2 Emeco Vernier Dials, each	7/6	1 Wireless 9001 Condenser	1/6
1 40 ohm, De. Jar	3/6	1 Wireless 901 Condenser	1/6
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The First Baby

The only sensible father I ever met was my own. When I was born, he said that I reminded him of an organ grinder's monkey. Some of my friends declare that the simile is equally striking to-day!

Every other father is an infernal nuisance and should be segregated.

Take old Jim as a case in point. Before his first baby arrived you would rather stand with Jim in a crowded tram car than take a corner seat. He was full of umrpie yarns and ripe cigars. Now he puts his cigar money into a tin money box for the boy and all his friends travel by an earlier car.

Of course, he will grow out of it. When the second one arrives he will borrow my cold chisel and get busy on that money box.

"Only 5 inches square and absolutely silent!" exclaimed the Manager of New System Telephones Pty., Ltd., when I called yesterday.

"Great Scott! What a wonderful baby!" I remarked innocently. When I came to, I understood that he was referring to the new "Acme" Charger.

The Acme Charger is the latest radio baby and the sensation of the year in America. It is almost a pocket edition, yet actually it is three times as efficient as any other battery charger made, and contains the famous Raytheon Rectifying Unit, one of the greatest inventions of modern radio.

It has no acid to spill and no valves to burn out, is wonderfully economical in its use of power, fits into any corner and charges your battery perfectly.

An A6 Acme charges at 2.5 amps. and an A7 at 5 amps. You just switch it on to your light socket and forget about it. Being absolutely silent and out of the way, this tiny giant of radio does its work without telling the world.

Now if a baby could always be quiet at "charging" time, what a joy it would be to the neighbours!

ELLEN CASTLES, soprano:

- "Little Boy Blue" (Novin).
 "Angels Guard Thee" (Goward).
 1. 30 p.m.—In no time, 'tis ONE OF THE CLOCK—the striking of the clock, the running of the sun—day and night, summer and winter, months, years, centuries—these are not arbitrary and outward signs, the measure of time, not time itself. Time is the life of the soul."
 NORMAN BRADSHAW, tenor:
 "Sally, Sally!"
 "Shepherd."

1.45 p.m.—Stock Exchange information, Meteorological information, Weather forecast for Victoria, Tasmania, South Australia and New South Wales, Great forecast, River reports, Rainfall for Victoria, Tasmania, South Australia and New South Wales.

2 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—JOE ARONSON and HIS SYNCOPHYMphonists.
 3.10 p.m.—"AU FAIT":
 Fashion Talk.
 3.25 p.m.—JOE ARONSON and HIS SYNCOPHYMphonists.
 3.35 p.m.—BOBBY PEARCE, baritone:
 "The Bonnie Banks o' Loch Lomond."
 "Oye to Philadelphia" (Chasins).
 3.42 p.m.—JOE ARONSON and HIS SYNCOPHYMphonists.
 3.52 p.m.—ANITA SHAW, comedienne:
 "Ain't You the Cutest?"
 "Happy."
 4 p.m.—JOE ARONSON and HIS SYNCOPHYMphonists.
 4.10 p.m.—BOBBY PEARCE, baritone:
 "The March of the Cameron Men."
 "When You Come Home" (Squire).
 4.19 p.m.—JOE ARONSON and HIS SYNCOPHYMphonists.
 4.27 p.m.—ANITA SHAW, comedienne:
 "Ten for Ten."
 "From One till Two."
 4.34 p.m.—JOE ARONSON and HIS SYNCOPHYMphonists.
 4.46 p.m.—"Herald" news service.
 Stock Exchange information.
 5 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

- 5.30 p.m.—Answers to letters and birthday greetings, by "MARY GUMLEAF."
 5 p.m.—STUDIO QUARTET:
 "Nursery Rhymes."
 5.10 p.m.—"MARY GUMLEAF":
 "The Magic Stocking"—a story for the latest ones.
 5.15 p.m.—STUDIO QUARTET:
 "Parade of the Tin Soldiers."
 5.23 p.m.—"MARY GUMLEAF":
 Story for the bigger children:
 "The Adventure Begins."
 5.40 p.m.—Official report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne; number of sheep and cattle drawn for week's sales.
 5.45 p.m.—"Herald" news service.
 Weather synopsis.
 Shipping movements.
 5.52 p.m.—Stock Exchange information.
 5.57 p.m.—River reports.
 5.59 p.m.—Fish Market reports, by J. R. Borrett, Ltd., Hobart office.
 7.15 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.: Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Farmers' Association.
 Ballarat Stock Market report.

NIGHT SESSION.

- 7.15 p.m.—MR. HARRY CROCK:
 Impressions Abroad: London.
 7.30 p.m.—Under the auspices of the UNIVERSITY OF MELBOURNE EXTENSION BOARD, DR. GWYNETH V. BUCHANAN, D.Sc., senior lecturer in the Zoology Department at the University, will speak on:

- "Some Luminous Animals."
 7.45 p.m.—MR. H. BARKLEY will speak on:
 "The Wheat Harvest Forecast."
 7.55 p.m.—THE HEALTH ASSOCIATION'S MESSAGE for today is:
 "The prevention of fluorisation and subsequent heart disease is not a dream, but a possibility. No child should live in a damp house; no child should sit in damp clothes; no child should be allowed to get about with chronic disease of the tonsils and teeth."
 8 p.m.—Announcements.
 8.2 p.m.—HAROLD ELVINE, pianoforte recital:
 "Arabesque" (Schumann).
 "Ragdoll" (Dale).
 "Aie from Tonia" (Puccini).
 "Spinning Chorus from the Flying Dutchman" (Wagner Libret).
 8.30 p.m.—ELLEN CASTLES, soprano:
 "Aie from Tonia" (Puccini).
 "Serenade" (Schubert).
 8.38 p.m.—Announcements. Brief official wireless news from Rugby.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for today is FOR EVERYBODY:
 "Carelessness is the mother of catastrophe. To an exposed brain to injury, is the shortest road to the grave."
 8.46 p.m.—STUDIO PRESENTATION OF THE OPERA, "IL TROVATORE" under the direction of SUTTON CROW, assisted by THE STUDIO QUARTET and the AUBURN METHODIST CHOIR:
 Cast:

- ELISE DAVIES, soprano, Leonora.
 BEATRICE MEVET, soprano, Ines.
 INA LILLYCRAP, contralto, Azucena.
 JOHN D. SULLIVAN, tenor, Manrico.
 CHARLES D. RIGGALL, tenor, Ruiz.
 J. ALEXANDER, tenor, Il Conte di Luna.
 E. DAVIES, bass, Ferrando.
 10 p.m.—TRANSMISSION FROM ECHUCA: ECHUCA FEDERAL BAND:
 "On the Beach."
 F. C. MUELLER'S PALAIS DE DANSE ORCHESTRA:
 Selection "On with the Show."
 "In a Moroccan Garden."
 ECHUCA FEDERAL BAND:
 "Knight Errant."
 CORNET SOLO:
 "A Musical Hom" (Verdi).
 "McMahon."
 ECHUCA FEDERAL BAND:
 Gavotte "Silver Ball."
 ECHUCA FEDERAL BAND:
 March "Northumbrian."
 ZONOPHONE SOLO:
 "New Colonial" (Carl Mueller).
 PARAMOUNT THEATRE ORCHESTRA:
 "Call of the Bard."
 ECHUCA FEDERAL BAND:
 Novelty, "Rag Time Bass Player."
 11 p.m.—Argus News Service.
 Meteorological information.
 OUR GREAT THOUGHT:
 "To use the hands in making quietness into mortar is better than to cross them in the attitude of indifference on a cross."
 11.8 p.m.—JOE ARONSON and HIS SYNCOPHYMphonists.
 11.48 p.m.—"GOD SAVE THE KING."

4QG, BRISBANE.

Tuesday.

MIDDAY SESSION.

1.0 p.m. to 2.0 p.m.

AFTERNOON SESSION.

- 2.30 p.m.—A Programme of Music from the Studio.
 4.10 p.m.—"The Telegraph" News.
 4.15 p.m.—Close Down.
 4.30 p.m.—DAILY EVENING SESSION.
 5.0 p.m.—From the Studio; "Daily Standard" News; Announcements.
 5.15 p.m.—Lecture: "Astronomy—the Sun and His Family," by Mr. A. R. Chapman.

4.30 p.m.—The Children's Session: Stories by Uncle Jim.
 7.0 p.m.—From the Studio: Special News Service; Market Reports; Stock Reports.
 7.26 p.m.—Music Week Talk by Mr. Les Ebye.
 7.40 p.m.—Weather News; Announcements.
 7.45 p.m.—Standard Time Signals.
 7.45 p.m.—Lecture: "Photography," by Mr. F. L. South (Manager Kodak Ltd.).

NIGHT SESSION.

MR. ERICH JOHN'S PARTY.

To-night's Programme has been arranged by Mr. Erich John, and will be provided by his party of radio artists.

PART I.—CLASSICAL.

Double quartette, "Harvest Song" (Dantzeil); duet, "O Wert! Thou in the Gold Blast" (Mendelssohn); Miss Audrey Bell (contralto), and Mr. Jack Lord (tenor); haritone solo, "Prologue" (from "Il Pagliaccio")—Leoncavallo; Mr. Ben Cloirec (baritone); double quartette, "Naxos's Song" (Gounod); tenor solo, "The Traveller's Song" (Mendelssohn); Mr. Walter Land; duet, "Fleeting" (Rubinstein); Miss Mildred Bell (contralto), and Mr. Ben Cloirec (baritone); male quartette, "Chorus of Old Men" (from "Faust")—Gounod; soprano solo, "Addio del passato" (from "La Traviata"—Verdi); Miss Mayo Hughes; contralto duet, "The Angel" (Rubinstein); Miss Audrey Bell and Audrey Bell; bass solo, "On Wings of Song" (Mendelssohn); Mr. Tom Ryan; duet, "Maybells and the Flowers" (Mendelssohn); Messrs. Jack Lord (tenor), and Ben Cloirec (baritone); double quartette, "Wanderer's Song" (Schumann).

PART II.—NEGRO SPIRITUALS AND

PLANTATION SONGS.

Double quartette, "The Ringed Nigger"; tenor duet, "It's Gone"; Messrs. Jack Lord and Walter Land (with male quartette); contralto solo, "Swing Low, Sweet Chariot"; Mr. Geo. Williamson; double quartette, "Dance and Sing"; soprano solo, "I Got a Bobo"; Miss Mabel Malouf; duet, "Hurry Up Pompey"; Miss Audrey Bell (contralto), and Mr. Jack Lord (tenor); bass solo, "Go Down Moses"; Mr. Tom Ryan; duet, "Far Far Away"; Misses Mabel Malouf (soprano), and Mildred Bell (contralto), with double quartette; double quartette, "The Old Banjo."
 10.0 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

5CL, ADELAIDE.

Tuesday.

MORNING SESSION.

12 noon.—Chimes.
 12.1 p.m.—Musical items.
 12.4 p.m.—"Advertiser" News Service.
 12.16 p.m.—Musical items.
 12.20 p.m.—"Advertiser" News Service.
 12.29 p.m.—Musical items.
 12.35 p.m.—"Advertiser" News Service.
 12.59 p.m.—Messrs. S. C. Ward and Co.'s Stock Exchange Intelligence.
 1 p.m.—Musical items.
 1.10 p.m.—"Advertiser" News Service.
 1.25 p.m.—Musical items.
 1.50 p.m.—Relay from the Regal Cafe; League of Nations Address.
 2 p.m.—Chimes.

AFTERNOON SESSION.

2 p.m.—Chimes.
 2.1 p.m.—Relay from the Maple Leaf Cafe; Orchestral selections.
 2.20 p.m.—From the Studio: Madame Lambert, dramatic soprano.
 2.45 p.m.—Talk by the Rev. G. L. Hale, B.A.
 4 p.m.—Chimes.
 4.1 p.m.—Relay from the Arcadia Cafe; Orchestral selections.

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Canada Cycle & Motor Agency (Q.) Ltd,
Creek & Adelaide Sts., Brisbane.

4.55 p.m.—Station announcements.
Messrs. S. C. Ward and Co.'s Stock Ex-
change Intelligence.
6 p.m.—Chimes.

EVENING SESSION.

6 p.m.—Chimes.
6.1 p.m.—Reply from the Covent Garden
Restaurant—Dancing Music.
6.21 p.m.—Hobart stories.
6.45 p.m.—Banner Times of the East West
Journals.
6.46 p.m.—Hobart stories continued.
7.25 p.m.—Messrs. R. L. Ward and Co.'s
Stock Exchange Intelligence.
Market Reports by Messrs. A. W. Handford
and Co., A. E. Hall and Co., Bulger and
Co., S.A. Farmers' Co-operative Union,
Taylor Bros., Retail Grocers' Association.
J. H. Young's special report on the Tomato
Market.
Interstate Fruit and Produce Market Com-
pany, Ltd.
Messrs. Fish Market Reports.
7.45 p.m.—Gardening Talk, by "Steady."
8.1 p.m.—Home Beautiful Talk, by "Domestic."
8.5 p.m.—Chimes.
8.4 p.m.—Hobart News.
8.18 p.m.—Madison Lambert, dramatic soprano.
8.33 p.m.—Hobart News.
8.50 p.m.—Victor Ryan, Director of the
Government Tourist Bureau, will speak on
Mount Gambler and the South East for
Tourists.
9.45 p.m.—Hobart News.
9.50 p.m.—Meteorological information.
9.5 p.m.—Bulger's wheat report.
9.3 p.m.—Hobart News.
9.10 p.m.—Arthur Bartle, bass.
9.15 p.m.—Hobart News.
9.48 p.m.—George Whittle, recitation.
9.55 p.m.—Arthur Bartle, bass.
9.45 p.m.—Hobart News.
10 p.m.—"Advertiser" News Service.
Wireless Shipping
"Weather" Shipping Service.
Dr. Fick.
10.15 p.m.—Arthur Bartle, bass.
10.19 p.m.—George Whittle, recitation.
10.30 p.m.—Reply from Glenelg.
The Nation Dance Band.
11.15 p.m.—"Advertiser" programme.
Station announcements,
Meteorological information,
National Anthem.

Tuesday.

12.30 p.m.—Tune in.
12.35 p.m.—Market News, and Cable.
1 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather notes, supplied by the
Meteorological Bureau of Western Australia.
1.4 p.m.—Single Instrumental Trio.
1.50 p.m.—Close down.
2.30 p.m.—Tune in.
2.35 p.m.—Musical programme, including vocal
and instrumental numbers.
Organ selections, relayed from the Grand
Theatre, Murray Street.
4.30 p.m.—Close down.
6.45 p.m.—Tune in.
6.50 p.m.—Children's playette, by Uncle Duff,
with Aunties Marjorie, Kathleen, Evelyn
and June, and Uncles Henry, Louie, Perry,
Ray and Duffy.
7.50 p.m.—Stock, Markets, News.
7.45 p.m.—Talk.
8 p.m.—The signal from Perth Observatory.
8 p.m.—Weather notes, supplied by the
Meteorological Bureau of Western Australia.

BAND NIGHT.

8.3 p.m.—Concert by the R.S.L. Band, con-
ducted by Mr. W. A. Halverson.
10 p.m.—Late news items, by courtesy of "The
Daily News" Newsometer Co.
Shows within range announcement.
Weather Report and Forecast.
10.30 p.m.—Close down.
120 METRE TRANSMISSION.
Simultaneous Broadcast on 100 Metres of
Musical Programme given on 1250 Metres,
commencing at 4 o'clock.

7ZL, HOBART

Tuesday.

MORNING SESSION—11 a.m. to 12 noon.

AFTERNOON SESSION.

2 p.m.—P.O. Clock Chimes.
3.1 p.m.—Tune in selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of Interest Announcements.
3.18 p.m.—Orchestral selections by 7ZL Studio
Trio.
4.15 p.m.—Cooking Talk, by "Regala."
4.50 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—"Uncle Peter's" half-hour.
7 p.m.—"Uncle Harter" talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selection.
8.1 p.m.—Literary games and Library Lists,
by Mr. W. B. Fuller.
8.50 p.m.—"Mercury" special Tasmanian news
service.
Hobart Auction Produce Sale.
Weather forecasts.
Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock Chimes.
9.1 p.m.—Musical Items from the Studio.
9.30 p.m.—Dance numbers by Mrs. Sheppard's
Trio, from Imperial Hotel, Hobart.
Interpreted with items from the Studio by
Miss Jean Hibbard (mezzo-soprano),
Miss Alice Briggs (soprano),
Miss Winnie O'Brien (alto/contralto),
Mr. George Muir (tenor).
Accompanied by Mrs. B. Sadler.
9.40 p.m.—British Official Wireless News.
9.50 p.m.—"Mercury" special interstate news
service.
Tasmanian District Weather Report.
9 p.m.—Weather forecasts.
Station announcements.
Ships within wireless range.
National Anthem.

Wednes., Oct. 5 6WF, PERTH. 2FC, SYDNEY

EARLY MORNING SESSION—7 to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news
service.
10.30 a.m.—Studio music.
10.45 a.m.—A Reading.
10.55 a.m.—Studio music.
11 a.m.—"Big Ben."
Marching music for school children.
11.5 a.m.—A.P.A. and Bentzer's Cables.
11.10 a.m.—Studio music.
11.15 a.m.—A Talk on Home Cooking and
Recipes, by Miss Ruth Paret.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.6 p.m.—Stock Exchange, Aree call.
12.3 p.m.—Official weather forecast, rainfall.
12.15 p.m.—Studio music.
12.18 p.m.—Summary of "Sydney Morning
Herald" news service.
Rugby wireless news.
12.25 p.m.—Studio music.
12.30 p.m.—Marching music for school chil-
dren.
12.40 p.m.—Annie Sadger, mezzo.
12.45 p.m.—The Oak Hill Instrumental Trio
(Leader, Mr. Horace Keels).
12.55 p.m.—Studio music.

- 1 p.m.—"Big Ben." Weather intelligence.
- 1.5 p.m.—"Evening News" midday news service.
- Producers' Distributing Society's Report.
- 1.50 p.m.—The Oak Hall Instrumental Trio.
- 1.55 p.m.—Stock Exchange, second call.
- 1.59 p.m.—Marching music for school children.
- 1.40 p.m.—Annie Soderger, mezzo.
- 1.45 p.m.—Studio music.
- 1.50 p.m.—The Oak Hall Instrumental Trio.
- 2 p.m.—"Big Ben."

NOTE: Racing events from the Spring Meeting at Randwick will be described in full by the 2FC Racing Commissioner.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
- 3.5 p.m.—A Complete Description of Racing Events in the running—from the Spring Meeting at Randwick—will be given throughout the afternoon by the 2FC Racing Commissioner.
- During the intervals of Racing the following Musical Items will be given:
- Josie Freeman, contralto;
- (a) "My Dear Soul" (Sanderson).
- (b) "The Leaves and the Wind" (Leon).
- N. McNulty, tenor.
- From the Oak Hall Tea Rooms:
- 3.50 p.m.—Hilda Nelson, mezzo.
- 4 p.m.—Eibel Muller, contralto.
- 4.30 p.m.—Hilda Nelson, mezzo.
- 4.40 p.m.—Eibel Muller, contralto.
- 4.45 p.m.—From the Studio:
- Stock Exchange information, third call.
- 4.45 p.m.—The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
- 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of IFC.
- 6.45 p.m.—The "Hello Man" talks to the children.
- 6.15 p.m.—Uncle Rus and "Jerry" entertain.
- 6.40 p.m.—Studio music.
- 7 p.m.—"Big Ben."
- Dalget's market reports (wheat, wheat and stock).
- 7.5 p.m.—Fruit and vegetable markets.
- 7.10 p.m.—Weather and shipping news.
- 7.15 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.30 p.m.—Programme announcements.
- 7.35 p.m.—A complete description of to-day's Spring Meeting at Randwick, given by the special 2FC Racing Staff.
- 8 p.m.—"Big Ben."
- Julius Van Der Klei, 'cello solo: "Sonnin" (Beecherini).
- 8.5 p.m.—A Programme by the Royal Sydney Apollo Club, conducted by Mr. Arnold Mote (from the Conservatorium Hall, Sydney).
- 9 p.m.—"Big Ben."
- Latest weather forecast.
- 9.1 p.m.—Julius Van Der Klei, 'cello solo: "Andante" (Gottlerman).
- 9.8 p.m.—The Royal Sydney Apollo Club, conducted by Mr. Arnold Mote (from the Conservatorium Hall, Sydney).
- 10.10 p.m.—A talk on Frank Harper's reminiscences of Cricketers—past and present—by Mr. L. G. Watt (from the Studio).
- 10.20 p.m.—Julius Van Der Klei, 'cello solo: "Arliguen" (Popper).
- 10.25 p.m.—Selwyn Seymour and Laurence Halbert in a sketch specially written for broadcasting, dealing with the sensations of an Aviator falling from an aeroplane. The reaction to this sketch will be given by the introduction of radio effects.
- 10.40 p.m.—The Wentworth Symphonic Dance Orchestra, conducted by Mr. Cyril Kaye.
- 10.45 p.m.—Selwyn Seymour, in a humorous item.
- 10.57 p.m.—Late news and announcements.
- 11 p.m.—"Big Ben."
- The Wentworth Symphonic Dance Orchestra.
- 11.30 p.m.—National Anthem.
- Close down.

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MELBOURNE — ADELAIDE



EARLY MORNING SESSION.

7.0 a.m. to 8.0 a.m.

MORNING SESSION.

11.0 a.m.—G.P.O. Clock and Chimes; Musical Programme from the Studio.
11.15 a.m.—Talk on "Motor Tents," by Miss Varley, Broadcasters' Women's Sports Authority. Special Notes; Replies to correspondents by Mrs. Jordan. Talk on "Dental Hygiene," by a member of the Dental Board.

AFTERNOON SESSION.

Having Information Broadcast immediately after each Race by courtesy of the "Sun."
12.0 noon.—G.P.O. Clock and Chimes; Special Omega Forecast and Weather Report.
12.2 p.m.—Brazzaville Panalogue Musical Recital.
12.15 p.m.—Information; Mails, Shipping and Post Directory.
12.16 p.m.—Hints in Call by Wireless.
12.24 p.m.—Fruit Market Report.
12.32 p.m.—Vegetable Market Report.
12.34 p.m.—London Metal Market Report.
12.38 p.m.—Dairy and Farm Produce Market Report.
12.39 p.m.—G.P.O. Clock and Chimes; Foreign Market Report.
12.50 p.m.—Fish Market Report.
12.54 p.m.—Rabbit Market Report.
12.58 p.m.—Stock Exchange Report.

12.59 p.m.—News from the "Sun."
12.45 p.m.—Hilliers' Instrumental Quartette; Director, Caryl Castling.
1.27 p.m.—Stock Exchange Report.
1.30 p.m.—G.P.O. Clock and Chimes; Talk in Children's and Special Entertainment for Children in Hospital.
2.0 p.m.—G.P.O. Clock and Chimes; Musical Programme from the Studio.
2.10 p.m.—Racing Resume.
2.15 p.m.—News from the "Sun."
2.25 p.m.—Special Talk, "The Great Composers," by Mr. G. A. Saunders.
2.6 p.m.—G.P.O. Clock and Chimes; News from the "Sun."
3.10 p.m.—Musical Programme from the Studio.
3.20 p.m.—Talk on "How to Maintain Your Health," by Dr. De Maurie.
3.48 p.m.—Danzon Dance Band, broadcast from the Dargavone Cabaret.
4.0 p.m.—G.P.O. Clock and Chimes; News from the "Sun."
4.10 p.m.—Serial Story.
4.20 p.m.—Danzon Dance Band.
4.30 p.m.—News from the "Sun."
4.45 p.m.—Resume of Night's Programme.
4.50 p.m.—Racing Resume.
4.55 p.m.—Special Omega Forecast.
5.0 p.m.—G.P.O. Clock and Chimes; Close Down.

EARLY EVENING SESSION.

8.45 p.m.—G.P.O. Clock and Chimes; Children's Session.
8.50 p.m.—Musical Programme from the Studio.

SPECIAL COUNTRY SESSION.

7.0 p.m.—G.P.O. Clock and Chimes; Australian Mercantile Land and Finance Co.'s Report; Weather Report and Forecast by courtesy of Government Meteorologist; Producers' Distributing Society's Fruit and Vegetable Market Report; Stock Exchange Reports; Grain and Poultry Reports ("Sun"); Dairy Produce Report ("Sun"); N.R.M.A. Talk.

7.15 p.m.—Country News from the "Sun."
7.30 p.m.—Talk by a Member of the St. John Ambulance Association.
8.0 p.m.—G.P.O. Clock and Chimes; Broadcasters' Topical Chorus.
8.7 p.m.—An Hour's Programme Under the Auspices of The Rose Day Appeal for the Benefit of the Combined Charities of Sydney. Programme kindly arranged for Madame Georges-Vierney. Artists contributing are Vera Lawrence, Hazel McGilvray, Mab

Bowyer, Rita Withworth, Phyllis Edwards, Thelma Perks, Alice Cohen, Etta Cohen (Pianist), Maude S. Solomon (Violinist).
9.0 p.m.—P.O. Clock and Chimes.
9.1 p.m.—Weather Report and Forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
9.2 p.m.—Resume of Following Day's Programme.
9.3 p.m.—The Canterbury District Band (Bandmaster, Mr. Stan Nicholas), broadcast from Baker's Hill, Campsie.
9.35 p.m.—The Third and Fourth Acts of the Operetta, "The Student Prince," broadcast from the Regatta Theatre.
11.0 p.m.—G.P.O. Clock and Chimes; National Anthem.

2GB, SYDNEY

Wednesday.

MORNING SESSION.

8 a.m.—Music.
9.5 a.m.—Address.
9.15 a.m.—Music.
9.25 a.m.—Psychological Class.
9.40 a.m.—Music.
9.45 a.m.—National Association of N.S.W. Close down.

AFTERNOON SESSION.

3.30 p.m.—Music.
3.57 p.m.—Address by Professor E. Wood.
3.52 p.m.—Music.
4.0 p.m.—Address National Association of N.S.W.
4.20 p.m.—Music.
4.30 p.m.—Close down.

EVENING SESSION.

7.0 p.m.—Music.
7.5 p.m.—Address.
7.15 p.m.—Music: Instrumental Trio.
7.30 p.m.—National Association of N.S.W.
8.0 p.m.—Musical Programme.
1. "Bonnie" (Wagner).
2. "Suzanne" (Purcell).
3. 2 p.m.—Songs by Frederick Turrell.
1. "Sound as a stone" (Handel).
2. "How beautiful they are!" (Roland Bonjourn).
8.15 p.m.—Duet for two voices with piano accompaniment.
Dan Scully, Monica Horner, Ada Brook.
8.30 p.m.—Clement Monkton Quartet.
Song Cycle, "A Pagoda of Flowers" (Woolford Linden).
Eddie Brown, Eva Craft, Frederick Turrell, Clement Hoelbling.
9.0 p.m.—Recital by Mr. Heath Murdoch.
9.15 p.m.—Duet for two voices with piano accompaniment.
Dan Scully, Monica Horner, Ada Brook.
9.30 p.m.—Piano Solo, Ada Brook.
"Scherzo à la mineur" (Chopin).
9.35 p.m.—Song by Eddie Brown.
1. "The Carnival" (Debussy).
2. "Walls Song from Tom Jones" (German).
9.45 p.m.—Violin solo, Dan Scully.
"Happy Airs" (Chopin).
9.55 p.m.—Address by National Association of N.S.W.
10 p.m.—Close down.

2UW, SYDNEY

Wednesday.

MORNING SESSION.

9 a.m.—News, Shipping, Mails, Musical Unit.
9.45 a.m.—Women's Session.
9.55 p.m.—Resume of forward programme.
10 a.m.—Close down.

AFTERNOON SESSION.

2.00 p.m.—Studio items.
2.30 p.m.—Resume of forward programme.
2.45 p.m.—Close down.

EVENING SESSION.

8 p.m.—Studio items.
8.30 p.m.—Resume of forward programme.
8 p.m.—Close down.

NIGHT SESSION.

- 7 p.m.—Where to Go.
 7.10 p.m.—Studio Items.
 7.30 p.m.—Talk on Natural History: "The Prelude to Animal Evolution," by G. F. Maxwell.
 7.45 p.m.—Gordon James McDonald: Jazz Interlude.
 8 p.m.—Studio Items.
 8.25 p.m.—Resume of forward programme.
 8.50 p.m.—Close down.

3LO, MELBOURNE.

Wednesday.

MIDDAY SESSION.

- 12 noon.—Time signal. Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day.
 British official wireless news from Rugby, Reuters' and the Australian Press Association cables.
 12.30 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
 12.30 p.m.—EILEEN CASTLES, soprano: "Irish Folk Song" (Foster).
 "I Hear a Thrush at Eve."
 12.37 p.m.—Stock Exchange information.
 12.40 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
 12.50 p.m.—NORMAN PILL, comedian: "Language."
 "Speech Day."

1 p.m.—ONE by the bells—that all-softening, Strengthening knell.

The tollin of the soul—the dinner bell.

1.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.

1.5 p.m.—Meteorological information.

Weather forecasts for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports. Rainfall for Victoria, South Australia, Tasmania and New South Wales.

1.14 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.

1.25 p.m.—EILEEN CASTLES, soprano:
 "Blue Danube" (Strauss).

"Little Red Lark" (Irish).

1.32 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.

1.43 p.m.—NORMAN PILL, comedian:
 "Oh Water: Bottle-Hot."

"The Lounge."

1.49 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.

2 p.m.—Close down.

2.30 p.m.—Description of Craigieburn Hurdle (two miles), FINDON HUNT CLUB, at SANDOWN PARK COURSE, by "Musket," of "The Sporting Globe."

2.55 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—Description of Beveridge Handicap (six furlongs), FINDON HUNT CLUB, at SANDOWN PARK COURSE, by "Musket," of "The Sporting Globe."

3.6 p.m.—STUDIO QUARTET:
 Intermezzo, "The Wedding of the Rose" (Jesell).

3.15 p.m.—JANE BLACKMORE, contralto:
 "Recompense" (Sanderson).
 "Think of Me" (B. Waterford).

3.22 p.m.—STUDIO QUARTET:

Suite, "The Language of Flowers" (Cowen).

3.30 p.m.—Description of Janeville Maiden

Hunters' Steeple, about 2 miles, FINDON HUNT CLUB at SANDOWN PARK COURSE, by "Musket," of "The Sporting

Globe."

3.35 p.m.—TASMA TIERNAN, 'cello:

"Reverie" (Vieuxtemps).

3.42 p.m.—ANITA SHAW, comedienne:

"I've got a New Kind of Man."

"She's Just what the Doctor Ordered."

3.50 p.m.—REYNALD BRADLEY, violin:

"To a Wild Rose" (McDowell).

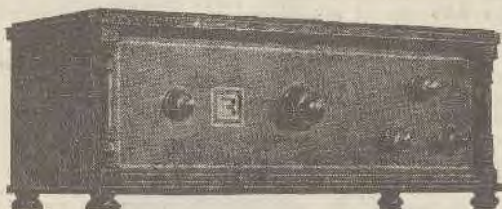
"Pale Moon" (Logan).

4 p.m.—Description of FINDON HUNT CUP,

about 2 miles 6 furlongs, FINDON HUNT CLUB at SANDOWN PARK COURSE, by

"Musket," of "The Sporting Globe."

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With 4in. Control Handle, 11/4 each

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John Arnold, P.O. Box B71,
Degraeve Buildings, Degraeve
Street, Melbourne.

- 4.4 p.m.—JANE BLACKMORE, contralto; "Down to the Forest" (London Record).
"Absent."
4.12 p.m.—STUDIO QUARTET:
"Sweet Jamaica" (London).
4.17 p.m.—ANITA SHAW, comedienne:
"It Winter Comes."
"The Little Wooden Whistle."
4.23 p.m.—STUDIO QUARTET:
"Dancing Nymphs" (Dramatic).
4.26 p.m.—Description of Yan Yean Handicap.
4 1/4 mile, FINDON HUNT CLUB at SANDOWN PARK COURSE by "Musket" of "The Sporting Globe."
4.45 p.m.—SISTER LOCKHART will speak on "Infant Welfare."
4.46 p.m.—"Herald" news service.
Stock Exchange Information.
4 p.m.—Description of Durres Cathedral, 4 mile, FINDON HUNT CLUB at SANDOWN PARK COURSE by "Musket," of "The Sporting Globe."
6 1/2 p.m.—Close down.

EVENING SESSION

CHILDREN'S HOUR

- 5.30 p.m.—Answers to letters and birthday greetings by MARY, MARY, QUITE CONTRARY.
6 p.m.—STUDIO QUARTET:
"Wood Fables" (Hudley).
6 1/2 p.m.—MARY MARY will tell the story of the "DAISY."
6.17 p.m.—STUDIO QUARTET:
"Eloise, at Play" (romance).
6.25 p.m.—MARY MARY will tell you about "KING ROBERT OF SICILY."
6.30 p.m.—"Herald" news service.
Weather reports.
Shipping movements.
6.47 p.m.—Stock Exchange information.
6.52 p.m.—Eggs Market reports, by J. R. Torrell, Ltd. Rabbit prices.
6.55 p.m.—River reports.
6.58 p.m.—Market reports. Official reports of Forecaster who speaks by the Associated Stock and Station Agents, Bourke Street, Melbourne. Poultry, grain, hay, straw, pigs, dairy produce, potatoes and onions.
7 p.m.—Market reports of fairs by the Victorian Fruit-growers' Association. Bullard pig market report.

NIGHT SESSION

- 7.15 p.m.—Under the auspices of the Agricultural Department, Mr. N. A. DOWMAN, sheep and wool expert, will speak on: "Sheep—Preparation for Shearing."
7.30 p.m.—Mr. E. BARRELLY will speak on: "Rainfall and Wool Production."
7.40 p.m.—CAPTAIN PETERS will speak on "Hocks, Wire and Ovens."
7.45 p.m.—THE MESSAGE OF THE HEALTH ASSOCIATION OF AUSTRALIA for to-day is: "Children have a right to possess clean skin, clean hair, clean teeth and a clean mind. SEE THAT THEY GET THEIR RIGHTS."
Announcements.
8 p.m.—UNIVERSITY SYMPHONY ORCHESTRA under direction of Prof. Bernard Reinec:
Orchestra: Overture "Allegretto" (Beethoven). Song, "Lo, Here the Gentle Lark" (Mikhop). Marie Wilton.
Orchestra: Symphony No. 8, 1st Movement (Beethoven).
Song, "The Stars my Lullaby" (Danish Macdonald).
"I Love not Thee" (Grieg).
Linda Barber.
Violin and Orchestra: Concerto in D Minor, 2nd and 3rd movements (Wiblowich).
Solo, violin, MARIORIE SCHMITT.
Aria, with Orchestra, "Ocean, thou mighty wanderer" (Weber).
ETHEL FORSHAW.
Orchestra—Prelude for Strings—"Le derrier sommeil de la Vierge" (Massenet).
Henry VIII. Dances (Edward German).
Morris Dance.
Shepherd Dance.

- Torch Dance.
Song "Prize Fighting Hero" (Hobson).
MYRTLE WIER.
Orchestra: Overture, "Ray Daa" (Mandelsham).
Song, "Trees" (Oscar Rasbach).
"Gray Days" (Noel Johnston).
LINDA BARBER.
Orchestra: "Mock Morris."
"Sheddy's Day" (Percy Grainger).
Song, "Once in My Childhood"
"Tom" (Massenet).
ETHEL FORSHAW.
Orchestra: 1st and 2nd Hungarian Dances in G Minor" (Brahms).
10 p.m.—"Herald" news service. Meteorological Information. British official wireless news. Announcements.
ROYAL AUTOMOBILE CLUB OF VICTORIA: SAFETY MESSAGE for today is for EMBLEPHOY.
2. Before this is read, please. An empty trial of thought is not easy as good as a little wheelbarrow of ideas."
10.22 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
10.25 p.m.—EILEEN CASTLES soprano:
"Eliani" (Vocal).
"Dwas April" (Nevin).
10.30 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
10.40 p.m.—ANITA SHAW, comedienne:
"A Cup of Coffee."
"Bridget O'Flynn."
"I Want to be Happy."
10.47 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
11 p.m.—OUR GREAT THOUGHT:
"Before thou reproach another, take heed thou art not culpable in when thou gart about to reproach. He that cleans a blot with better fingers makes a greater blot."
—Gaulle.
11.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
11.40 p.m.—"GOD SAVE THE KING."

4QC, BRISBANE.

Wednesday.

EARLY MORNING SESSION.

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

MIDDAY SESSION.

1 p.m. to 2 p.m.

AFTERNOON SESSION.

- FROM HOTEL CARLTON.—
2.30 p.m.—Afternoon Tea. Music from the Lounge, played by Hotel Carlton Symphony Orchestra.
FROM THE STUDIO.—
4.15 p.m.—Beauty Talk by Dorothy Webster; and "Telegraph" news.
4.50 p.m.—Close down.

EARLY EVENING SESSION.

- 6 p.m.—"Daily Standard" news; announcements.
6.15 p.m.—Lecturette: NIL.
6.40 p.m.—The Children's Hour—Stories by "Little Miss Brisbane."
7 p.m.—"Herald" news service. Market reports. Book reports.
7.30 p.m.—Weather news; announcements.
7.45 p.m.—Standard time signal.
7.50 p.m.—Manures and Fertilisers in Orchard and Garden, No. 2, by Mr. J. W. Howie (Horticultural, Queensland Agricultural High School and College).

SHORT SESSION.

- TIVOLI ORCHESTRA.
FROM THE TIVOLI THEATRE—
5 p.m.—Music by the Tivoli Operatic Orchestra (conductor, Mr. C. Groves).
AN INTERLUDE.
6.15 p.m.—In response to numerous requests the Interlude, "But, Oh the Little Cargo Boat," which was given some time ago, will be repeated.
ANGLO MALE QUARTETTE.

8 p.m.—A programme by the Anglo Male Quartette. Parly-Quartette. "Nellie Was a Lady" (Parks), the Anglo Quartette; tenor solo. "Sometimes in Summer" (Suzulafe Bennett), Mr. C. R. Kolb; baritone solo. "The Yeoman's Wedding Song" (Poniatowski), Mr. A. F. Stoddart; quartette. "Do Singlanted Coors" (Scott Gatty), the Anglo Quartette; bass solo. "Davey Jones Locker" (Poirie), Mr. R. Pike; duet. "Army and Navy" (Onke), Mr. C. R. Kolb and Mr. A. F. Stoddart; quartette. "Oh, Who Will O'er the Downs to Eres" (Pearall), the Anglo Quartette.

RADIO NOVELTY.

9.30 p.m.—A novelty transmission will be effected. Signor Corti (tenor) and Miss Thelma Champlin (Soprano) will sing in the studio of 4QG, and will be accompanied by the Tivoli Operatic Orchestra, which will play in the Tivoli Theatre. Dual transmission of voices and orchestral music will take place.

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

6WF, PERTH.

Wednesday.

12.30 p.m.—Tune in.

12.35 p.m.—Markets, News, and Cables.

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

1.3 p.m.—Studio Quintette.

2 p.m.—Close down.

2.30 p.m.—Tune in.

3.25 p.m.—Musical programme from the Studio, including vocal and instrumental selections. Orchestral music by Hoyts Orchestra, relayed from Hoyts New Regent Theatre, William Street.

4.30 p.m.—Close down.

6.45 p.m.—Tune in.

6.50 p.m.—Stories for Tiny Tots, by Auntie Marjorie.

7.5 p.m.—Uncle Leslie will tell short stories to the kiddies.

7.20 p.m.—Stocks, Markets, News.

7.45 p.m.—Talk.

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

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

VARIETY NIGHT.

8.3 p.m.—Items by the Stadio String Trio:

Miss Evelyn Willis, A.R.C.M., piano.

Mr. H. G. Becham, 'cello.

Mr. H. T. Newton, violin.

Dance music, by Golla Smith and his Dance Orchestra, relayed from the Perth Palace Royal.

10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Coy.

Ships within range announcement.

Weather Report and Forecast.

10.30 p.m.—Close down.

199 METRE TRANSMISSION.

Simultaneous Broadcast on 199 Metres of Musical Programme given on 1250 Metres, commencing at 5 o'clock.

7ZL, HOBART

Wednesday.

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes.

3.1 p.m.—Tune in selection.

3.5 p.m.—Hobart Stock Exchange quotations. Weather information.

Items of interest—announcements.

3.15 p.m.—Radio Auction Bridge Game No. 12.

4 p.m.—Social and Educational Calendar from Illustrated Transmitter Magazine.

4.15 p.m.—Story from Illustrated Mail.

4.30 p.m.—Close down.

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EARLY EVENING SESSION.

8.00 p.m.—"Uncle Peter's" half hour.
8.18 p.m.—Story from Illustrated Tasmanian Mail—Birth-day Greetings.

NIIGHT SESSION.

7.30 p.m.—Musical selection.
7.35 p.m.—Weekly Scouting Corner; Talk by Scoutmaster Rev. C. E. Robertson; subject: "Radio and Scouting."
7.40 p.m.—"Mercury" special Tasmanian news service; Railway timetable; produce prices; Weather Forecast; Bank of New Zealand exchange quotations; Almonds and stock market reports through the courtesy of Roberts and Co. R.Bart.
8 p.m.—G.P.O. Clock chimes.
8.1 p.m.—Broadcast by direct wire from City Hall, Hobart. Combined Schools Annual Choral Festival (1899 school); (accompanied by Hobart Orchestral Society).
1. "The Last Chord."
2. "On Wings of Song" (vocals to "ah").
3. "Where the Bee Sucks" (trio).
4. "The Glow of Evening" (duet).
5. "My Old Kentucky Home" (Soprano Solo).
6. "The Sands of Time" (Trio).
7. "God Save the King."
8. "The St. John's Choir."
9. "As I went a-Roaming" (part).
10. "Artie O' Shea" (duet).
11. "The Distant Chimes."
12. "When the heart is young."
13. "Magnificat" (Choir, (Dressed Item).
14. "My Home."
15. "Passing On."
At conclusion of Concert.
F. J. S. Official Wireless News. Weather information.
Station Announcements.
Close Down.

Thurs., Oct. 6 2FC, SYDNEY

EARLY MORNING SESSION.—7 to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.2 a.m.—Lecture notes: "Facing Information by the I.P.C. Commission."
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—From the Crystal Palace Theatre, George Street, Sydney.
An Organ Recital by Mr. Hal Stead.
11.30 a.m.—A.P.A. and Reuter's Cable Service (from the Studio).
11.45 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and programme announcements.
12.2 p.m.—Stock Exchange, first call.
12.5 p.m.—Official weather forecast, rainfall, temperature.
1.3 p.m.—Studio music.
1.10 p.m.—Summary of "Sydney Morning Herald" news service.
1.15 p.m.—Studio music.
1.25 p.m.—Studio music.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Lorraine Jernan, soprano.
1.45 p.m.—The Oak Hall Instrumental Trio.
1.55 p.m.—Studio music.
1 p.m.—"Big Ben." Weather Intelligence.
1.2 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—The Oak Hall Instrumental Trio.
1.25 p.m.—Stock Exchange, second call.
1.50 p.m.—Marching music for school children.

1.40 p.m.—Lorraine Jarman, soprano.
1.45 p.m.—Studio music.
1.50 p.m.—The Oak Hall Instrumental Trio.
1.55 p.m.—Last minute Racing information,
by the SFC (omnibus).
2.5 p.m.—Close down.

AFTERNOON SESSION

5 p.m.—"Big Ben" and announcements.
5.5 p.m.—Nora Hallett, comedienne.
6.10 p.m.—Rosalie Locke, vocalist:
"Four Men's Gardens" (Russell).
6.15 p.m.—A Reading.
6.25 p.m.—Kathleen Craeknell, contralto:
"O Thou Hillowy Harvest-field" (Suzel).
6.30 p.m.—Marching music for school children,
6.40 p.m.—Joyce Gillespie, mezzo (from Farm-
er's Tea Rooms).
6.45 p.m.—The Oak Hall Instrumental Trio
(Leader, Mr. Horace Koutis).
6.55 p.m.—Nora Hallett, comedienne.
7 p.m.—Dorothy Benbow, contralto:
"Dear Hands" (Russell).

NOTE: During the afternoon the winner of the
Dempster Shield will be broadcast in
connection with the sports of the Presby-
terian Ladies' College, Crofton.
7.0 p.m.—The Oak Hall Instrumental Trio.
7.15 p.m.—Rosalie Locke, contralto:
"An Emblem" (Thompson).
7.20 p.m.—Joyce Gillespie, mezzo.
7.25 p.m.—The Oak Hall Instrumental Trio.
7.35 p.m.—Kathleen Craeknell, contralto:
"Dawn" (Curran).
7.40 p.m.—Dorothy Benbow, contralto:
"Dreaming of Home" (Besley).
7.45 p.m.—Stock Exchange, third call.
7.47 p.m.—The Wentworth Symphonic Dance
Orchestra, under the baton of Mr. Cyril
Kaye.
8 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION

8.40 p.m.—Programme announcements.
8.45 p.m.—The "Hello Man" talks to the chil-
dren.
8.50 p.m.—Story time for the Young Folk.
8.55 p.m.—Studio music.
9.00 p.m.—Late sporting news.
9.05 p.m.—"Big Ben."
Dalgety's market reports (wool, wheat and
stock).
7.8 p.m.—Fruit and vegetable markets.
7.10 p.m.—Shipping and weather news.
7.15 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.50 p.m.—Programme announcements.
7.55 p.m.—Clyde Thorpe, violinist:
(a) "Andante Cantabile" (Tchaikowsky-
Kreutzer).
(b) "Tarantella" (Ginno-Papiou).
7.45 p.m.—A talk by Mr. J. R. Kierborne on
the adaptations of Birds—relative to Wings,
Feet and Bill.
7.45 p.m.—The Radwick Municipal Band, con-
ducted by Mr. E. P. Kerry.
8 p.m.—"Big Ben."
Harold Tollennache, baritone.
8.8 p.m.—The Radwick Municipal Band.
8.20 p.m.—Ad. Crox, Scotch comedienne.
8.25 p.m.—Clyde Thorpe, violinist:
(a) "The Blue Lagoon" (Winterhitz).
(b) Selected.
8.35 p.m.—The Radwick Municipal Band.
8.50 p.m.—Charles Lawrence, entertainer.
9 p.m.—"Big Ben." Late weather forecast.
9.1 p.m.—From the Studio:
A Programme presented by the Organisers of
the "Rose Day" Appeal, in connection
with the United Charities Fund.
Station SFC is donating this hour's pro-
gramme, as a contribution to the fund.
Reve Maxwell, the well-known Australian
soprano, has been specially engaged for the
purpose.
Other artists associated with the programme
include:
Lindley Evans, pianoforte solo:
(a) "Ballade" (Brahms).
(b) "Rondo in C" (Bethoven).
Harold Tollennache, baritone.
A talk by Mr. H. M. Hawkins on the
objects of "Rose Day."
10 p.m.—"Big Ben."
Charles Lawrence, entertainer.

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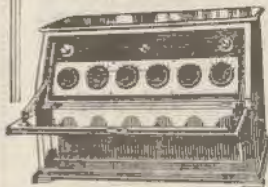
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- 19.8 p.m.—Lindley Young, pianoforte solos: (a) "Autonne" (Chaminade). (b) "Air de Ballet" (Chaminade).
- 19.14 p.m.—Ad Cress, South Australian.
- 19.22 p.m.—The Westworth Symphonic Dance Orchestra, under the baton of Mr. Fred Kaye.
- 19.32 p.m.—Len Maurice, popular baritone.
- 19.38 p.m.—The Westworth Symphonic Dance Orchestra.
- 19.46 p.m.—Len Maurice, baritone.
- 19.50 p.m.—The Westworth Symphonic Dance Orchestra.
- 19.57 p.m.—Late news and announcements.
- 21 p.m.—"Big Ben."
- Len Maurice, baritone.
- 11.5 p.m.—The Westworth Symphonic Dance Orchestra.
- 11.16 p.m.—Len Maurice, baritone.
- 11.20 p.m.—The Westworth Symphonic Dance Orchestra.
- 11.25 p.m.—National Anthem.
- Close down.

2BL, SYDNEY.

Thursday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and Chimes.
- Musical programme from the Studio.
- 10.40 a.m.—News from the "Daily Telegraph" Editorial.
- 10.50 a.m.—Musical programme from the Studio.
- 11 a.m.—G.P.O. Clock and Chimes.
- Announcements.
- 11.5 a.m.—Musical programme from the Studio.
- 11.15 a.m.—Social Notes. Replies to correspondence by Mrs. J. Jordan.
- Talk on "Renovating Existing Buildings" by Mr. Brogan.
- Talk on "Crepe Paper Work" by Mrs. Hughes.
- 12 noon.—G.P.O. Clock and Chimes.
- Special Ocean Forecast and Weather report.
- 12.15 p.m.—Brunswick Panoptrope Musical Revue.
- 12.15 p.m.—Information, Mails, Shipping and Port Directory.
- 12.18 p.m.—Balls in call by Wireless.
- 12.20 p.m.—Fruit Market report.
- 12.22 p.m.—Vegetable Market report.
- 12.24 p.m.—London Metal Market report.
- 12.26 p.m.—Dairy and Farm Produce Market report.
- 12.30 p.m.—G.P.O. Clock and Chimes.
- Foreign Market report.
- 12.32 p.m.—Fish Market report.
- 12.34 p.m.—Rabbit Market report.
- 12.36 p.m.—Stock Exchange report.
- 12.38 p.m.—News from the "Sun."
- 12.45 p.m.—Billiers' Instrumental Quartette: direction, Cyril Costello.
- 1.27 p.m.—Stock Exchange report.
- 1.30 p.m.—G.P.O. Clock and Chimes.
- Talk to Children and Special Entertainment for Children in Hospital.
- 2 p.m.—G.P.O. Clock and Chimes.
- Close down.

AFTERNOON SESSION.

- Reading Information Broadcast immediately after each hour by courtesy of the "Sun."
- 3.0 p.m.—G.P.O. Clock and Chimes; Musical Programme from the Studio.
- 3.19 p.m.—News from the "Sun."
- 3.29 p.m.—Musical Programme from the Studio.
- 3.30 a.m.—News from the "Sun."
- 3.40 p.m.—Bangwan Dance Band broadcast from the Bangwan Cabaret.
- 3.45 p.m.—G.P.O. Clock and Chimes; News from the "Sun."
- 4.10 p.m.—Birtl Story.
- 4.30 p.m.—Bangwan Dance Band.
- 4.50 p.m.—News from the "Sun."
- 4.55 p.m.—Resume of Night's Programme.

- 4.57 p.m.—Haring Review.
- 4.59 p.m.—Special Ocean Forecast.
- 5.0 p.m.—G.P.O. Clock and Chimes; Close Down.

EARLY EVENING SESSION.

- 5.41 p.m.—G.P.O. Clock and Chimes; Children's Session.
- 5.48 p.m.—The Pop's of Miss Monica Sealy will entertain the Children.
- 6.30 p.m.—Musical Programme from the Studio.

SPECIAL COUNTRY SESSION.

- 5.8 p.m.—G.P.O. Clock and Chimes; Australian Mercantile Land and Finance Co's Report; Weather Report and Forecast by courtesy of Government Meteorological Practicers; Distributing Society's Fruit and Vegetable Market Report; Stock Exchange Report; Grain and Fodder Report ("Sun"); Dairy Produce Report ("Sun"); Weekly Traffic Bulletin.
- 7.15 p.m.—Country News from the "Sun."
- 7.25 p.m.—Beneficial Hintu to Listeners by Mr. Alan Burgess.
- 7.30 p.m.—"Eucharistic Congress at Sydney, 1927" by Mr. Rupert Marikam, B.E.
- 8.0 p.m.—G.P.O. Clock and Chimes; Broadcasters' Special Chorus.
- 8.5 p.m.—The Marriecille Salvation Army Band (Bandmaster, Mr. N. E. Knight), broadcast from Wynema Street, Marriecille.
- 8.55 p.m.—De. Response to Numerous Requests: Second Performance of Alexander Dumas' Five Act Drama, "Camille" with Miss Nellie Ferguson in the title role. Incidental Music by Broadcasters' Instrumental Trio.
- 10.15 p.m.—Gee Morrison and His Glenorchy Broadcast from the Ballroom of the Bondi Casino. During intervals between dances, "Sun" News will be broadcast.
- 11.0 a.m.—G.P.O. Clock and Chimes; National Anthem.

3LO, MELBOURNE

Thursday.

MIDDAY SESSION.

- 12 noon.—Time signal. Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. Reuters and the Australian Press Association cables. British official wireless news from Rugby. "Argus" news service.
- 12.15 p.m.—Under the auspices of the Converter-coers and Singing Singers' Association—COMMUNITY SINGING transmitted from the Assembly Hall, Collins Street, Melbourne.
- 1.45 p.m.—Stock Exchange Information. Weather forecasts for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast, river reports, rainfall for Victoria, Tasmania, South Australia and New South Wales.
- 2 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—REV. KENNETH HENDERSON will speak on: "Topics of the Week."
- 3.15 p.m.—MR. FRITZ HART will speak to Students of Music, both vocal and instrumental.
- 3.35 p.m.—Miss G. FLOS GREGG, B.A., will speak on: "Yunonfu," the Capital of the South-Western Province of China."
- 3.45 p.m.—STUDIO QUARTET: "Pastorale" (Barnes)."
- 3.55 p.m.—EILEEN CASTLES, soprano: "I Dream I Dwell in Marble Halls" "Prize Charming."
- 4.2 p.m.—HEITHA (JORGENSEN, violin): "The Prairie Flower" (MacMillan).
- 4.9 p.m.—STUDIO QUARTET: "To Spring" (Greig).
- 4.16 p.m.—EILEEN CASTLES, soprano: "Jeanne D'Arc" (Tchaikovsky). "A Little Birdie" (Puccini).

- 4.32 p.m.—STUDIO QUARTET:
"Red Poppies" (Holt).
4.30 p.m.—"Herald" news service. Stock Exchange Information.
4.45 p.m.—EVENSONG, transmitted from ST. PAUL'S CATHEDRAL.
5.30 p.m.—Accumulators for Saturday's Races, V.A.T.G., Caulfield.

EVENING SESSION.

CHILDREN'S HOUR.

- 5.45 p.m.—Answers to children's letters and birthday greetings, by "MARY GUMLEAF."
6.6 p.m.—THE STUDIO QUARTET:
Schumann Suite, Part I.
6.12 p.m.—"MARY GUMLEAF"—Story for Little Ones.
"Before the Scandinavian cruise"
Story for Boys and Girls.
"How the Windflowers got their Thorns."
6.37 p.m.—THE STUDIO QUARTET:
Schumann Suite, Part II.
6.54 p.m.—"Herald" news service. Weather forecasts. Shipping movements.
6.52 p.m.—Stock Exchange information.
6.57 p.m.—River resorts.
6.59 p.m.—Fish market reports by the Victorian Producers' Co-operative Co., Ltd.
Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions.
7.5 p.m.—Market reports of fruit.

NIGHT SESSION.

- 7.15 p.m.—Under the auspices of the Health Association:
DR. J. POLLOCK will speak on,
"Oral Hygiene."
7.30 p.m.—"China and its relations to Pacific Problems," by "An Australian."
7.45 p.m.—MRS. BEPPIE de VRIES, now appearing in "Madame Pompadour" at His Majesty's Theatre, will speak to you from her dressing-room, by permission of J. C. Williamson, Ltd.
8 p.m.—OUR HEALTH MESSAGE for today—
"Look after your human engine if you would enjoy riding along the Road of Life."
8.5 p.m.—MR. ROD McCREGOR:
"Football."
8.15 p.m.—Announcements.
8.18 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS:
"My Blue Bird" (Wright).
"Don't Sing Aloha to Me" (Moret).
"Black Bottom's Got 'Em" (Jance).
8.28 p.m.—ELLEN CASTLES, soprano:
"O, Whistle and I'll Come to Ye My Lad" (Scott).
8.32 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS.
8.42 p.m.—T. J. B. GEORGE, bass:
"Brian of Glenara" (Herbert).
8.46 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS.
8.56 p.m.—NORMAN PILL, entertainer:
"And Yet I Don't Know."
9 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS.
9.19 p.m.—ANITA SHAW, comedienne:
"Waiting for the Moon."
9.24 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS.
9.24 p.m.—ELLEN CASTLES, soprano:
"Swiss Echo" (Eckerl).
9.25 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS.
9.38 p.m.—T. J. B. GEORGE, bass:
"When a Maiden Takes Your Fancies" (Moret).
9.42 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS.
9.52 p.m.—NORMAN PILL, entertainer:
"Breakfast, Dinner and Tea."
9.58 p.m.—JOE ARONSON AND HIS SYMPOFATING SYMPHONISTS.
10.5 p.m.—ANITA SHAW, comedienne:
"Lamp."
10.10 p.m.—"Argus" news service. British official wireless news. Sporting News, by "Olympus." THE ROYAL AUTOMOBILE

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MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
- 12.2 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—Studio music.
- 12.19 p.m.—Summary of "Sydney Morning Herald" news service.
- Rugby wireless news.
- 12.25 p.m.—Studio music.
- 12.30 p.m.—Marching music for school children.
- 12.40 p.m.—Madeline Hall, soprano: "Thoughts have Wings" (Lehmann).
- 12.45 p.m.—The Oak Hall Instrumental Trio.
- 12.50 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.
- 1.30 p.m.—The Oak Hall Instrumental Trio.
- 1.28 p.m.—Stock Exchange, second call.
- 1.30 p.m.—Marching music for school children.
- 1.40 p.m.—Madeline Hall, soprano: "Lach-a-day" (Crampin).
- 1.45 p.m.—Studio music.
- 1.50 p.m.—The Oak Hall Instrumental Trio.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
- 3.5 p.m.—Duet, Charles Lawrence and Len Maurice.
- 3.10 p.m.—Netta Mullarkey, mezzo: "Sapphische Ode" (Johannes Brahms).
- 3.15 p.m.—A Reading.
- 3.25 p.m.—Duet, Charles Lawrence and Len Maurice.
- 3.30 p.m.—Marching music for school children.
- 3.40 p.m.—Percia Hutter, soprano.
- 3.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 3.55 p.m.—Studio music.
- 4 p.m.—William Bowyer, basso: "All joy be thine" (Sanderson).
- 4.5 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 4.15 p.m.—Frank Botham, baritone: "Red star of the Roman" (Sanderson).
- 4.20 p.m.—Percia Hutter, soprano.
- 4.25 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 4.30 p.m.—Netta Mullarkey, mezzo: "Jeunesse" (Bart).
- 4.40 p.m.—William Bowyer, basso: "The Dawn" (D'Hardelo).
- 4.45 p.m.—Stock Exchange, third call.
- 4.57 p.m.—Frank Botham, baritone: "King Charles" (White).
- 4.59 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA under the baton of Mr. Cyril Kaye.

5 p.m.—"Big Ben." Close down.

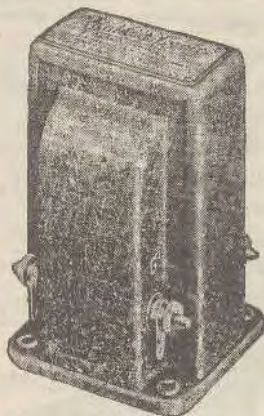
EARLY EVENING SESSION.

- 5.40 p.m.—Programme announcements.
- 5.45 p.m.—"The Holy Man" talks to the children.
- 6.30 p.m.—Story time for the young folk.
- 6.40 p.m.—Studio music.
- 6.50 p.m.—Latest sporting information by the 25C Racing Commissioner.
- 7 p.m.—"Big Ben." Daigety's market reports (wool, wheat and stock).
- 7.8 p.m.—Fruit and vegetable markets.
- 7.10 p.m.—Singing and weather intelligence.
- 7.15 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.30 p.m.—Programme announcements.
- 7.35 p.m.—Eleanor Stanton, contralto: (a) "I det mit dolke ord" (Shuck). (b) "Still as the night" (Bohm).
- 7.45 p.m.—Mr. Graham Keat, pianist: "Ethics of Bridge".
- 7.54 p.m.—Maurice Burklit, pianist.
- 8 p.m.—"Big Ben." From Her Majesty's Theatre, Pitt Street, Sydney. (By permission of J. C. Williamson Ltd.)
- The first act of "The Chocolate Soldier," featuring Strelitz Wilson, James Hay, Lance Fairfax and Charles Walena, in this popular Musical Comedy.
- 8.15 p.m.—From the Studio. Latest weather forecast.
- 8.18 p.m.—Maurice Burklit, pianist.
- 8.23 p.m.—Raymond Edle, English Baritone, and Enid Arvey, soprano, will present the

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The Varnish
Deeper even than the Circuit Diagram—
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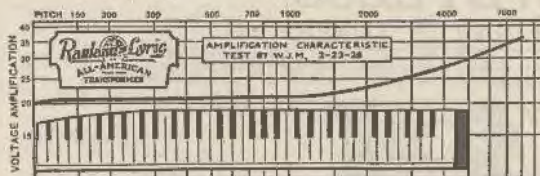


Fig. 1. Rauland-Lyric Curve.

Figure 1 shows the voltage amplification of the "Rauland-Lyric" at various frequencies. It will be noted that the amplification is very uniform, up to 3,000 cycles, and beyond this point there is a gentle increase until 8,000 cycles is reached. From the standpoint of practical amplification, this is of great importance. Most loud speakers have a decided tendency to slight these higher frequencies, and the reproduction from an amplifier having a true straight-line characteristic, would be quite inefficient on some harmonics and overtones. This, of course, would destroy the full rounded quality of the original music or voice. The "Rauland-Lyric" compensates for these loud speaker deficiencies by supplying extra power at the higher frequencies, and faithfully reproduces those qualities which distinguish the various musical instruments from one another.

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SYDNEY**

fish of a series of operatic numbers re-
presenting the Canadian and Southerie in
Opera. Miss D'Arcy will sing:
(a) "Vai che spunti" ("Figaro") (Mozart).
(b) "Quando mi va" ("La Bohème")
(Puccini).

8.43 p.m.—Eleanor Sloman, contralto:
(a) "Le Chere Juliette" (McDonna).
(b) "The Arrow and the Song" (Halle).

8.50 p.m.—Scott Alexander will present the
mythology of the Martin Breek desertations
entitled:
"There's a Reason for Everything."

Specialty written for JFC by Coddington
Hall.

8.57 p.m.—Raymond Ellis, English Baritone,
and Eoid D'Arcy soprano in further
musical numbers.

Miss D'Arcy will sing:
(a) "Cross the Brook" (Schubert).
(b) "Hark! Hark! the Lark" (Griegsbert).

10 p.m.—Scott Alexander will give an ori-
ginal comedy specialty written for broad-
waying by Coddington Hall entitled:
"The Night I was Born/Childhood."

10.24 p.m.—THE WENTWORTH SYMPHONIC
DANCE ORCHESTRA under the baton of
Mr. Cecil Kaye.

10.33 p.m.—Solo music.
10.43 p.m.—THE WENTWORTH SYM-
PHONIC DANCE ORCHESTRA under the
baton of Mr. Cecil Kaye.

10.57 p.m.—Lala news and announcements.
11 p.m.—"Big Ben."

THE WENTWORTH SYMPHONIC DANCE
ORCHESTRA in popular numbers until 11.30
p.m.

Musical items from the studio during the
interval at the Wentworth.
11.30 p.m.—National Anthem.
Close down.

3LO, MELBOURNE

Friday

MIDDAY SESSION.

11.0 noon—Time Signal. Metal Prices re-
ceived in the Australia 8 1/2 cent. Daily
change this day. British General Market
News from Rugby. Britain's Daily 1/2 Cent
Financial Prices. Australia's Daily 1/2 Cent
News Service.

12.20 p.m.—REGENT THEATRE CONCERT
ORCHESTRA. The Metropolitan Boys'
Theatre, Ltd., under the personal direction
of ERNEST G. MITCHELL.

Violin Solo and Leader, T. J. MCARTHUR.
March, "The Mountain Flow" (Hager).
Soloist, "Cocoon" (Reichardt).

12.30 p.m.—J. ALEXANDER BROWNE, Baritone:
"Land of Hope and Glory" (Elgar).
Invitation (Helm).

12.37 p.m.—Stock Exchange Information.
12.40 p.m.—REGENT THEATRE CONCERT
ORCHESTRA.

"Two Sales Pieces" (Ireland).
"The Best Wedding" (Mundelshin).

12.50 p.m.—EILEEN CASTLE, Soprano:
"Canaan" (T. Ungutler).
"April" (Nevin).

1.0 p.m.—TIME SIGNAL. It's One O'clock—
In a New.

1.1 p.m.—REGENT THEATRE CONCERT
ORCHESTRA.

Waltz, "The Blue" (De Syck).
"A Singsong" (M. J. Harney).
Festive, "Al Haddaway" (Gambalton).

1.4 p.m.—Meteorological Information. Weather
Forecasts for Victoria, Tasmania, South
Australia and New South Wales. Ocean
Forecast. River Reports for Victoria, Tas-
mania, South Australia and New South
Wales.

1.50 p.m.—J. ALEXANDER BROWNE, Baritone:
"The Company Sergeant-Major" (Sander-
son).

"For You Alone" (Toad).
1.55 p.m.—REGENT THEATRE CONCERT
ORCHESTRA.

Violin Solo with Orchestra.
"Wonderful Garden of Dreams" (Forster).
"Little Boats Courage" (Dickson).

1.51 p.m.—Selection, "Ave and Green"
(Moussillon).

1.44 p.m.—EILEEN CASTLE, Soprano:
"Vol. IV Saph" (Cavalleria Rustica)
(Toscanelli).
"Leave in the Wind."

1.55 p.m.—REGENT THEATRE CONCERT
ORCHESTRA.

Suite, "The Village Green" (April).
2.0 p.m.—Close Down.

AFTERNOON SESSION.

10 p.m.—STUDIO QUARTETTE:
"Avalon Awake" (Cedman).
"Villena Orientale" (Rovero).

3.10 p.m.—MRS FRANCIS FRASER:
"An Old Fashioned Queen."
3.20 p.m.—DOROTHY ROXBURGH, Violin:
"Venice Villanelle."

"Spring's Awakening" (Bach).
3.31 p.m.—ANITA SHAW, Comedienne:
"When I Got the Blues."

"My Gully's Full of You to Ten."
3.40 p.m.—STUDIO QUARTETTE:
"Golden Years" (Leahard).

3.47 p.m.—MAY ALBERTA, Soprano:
"The Dream Flower."
3.50 p.m.—STUDIO QUARTETTE:

"The Dancer of the East" (L. Gey).
"Clair d'Amour" (Grünfeld).

3.5 p.m.—MAY ALBERTA, Soprano:
"Golden Years" (Leahard).
"Isle of Sunshine" (Hay).

4.12 p.m.—AGNES FORTUNE, Piano:
"Water Wagon" (Scott).
4.20 p.m.—STUDIO QUARTETTE:

"Hallelujah Chorus from Scotland" (Lancini).
4.30 p.m.—MRS M. CALLAWAY MAHOOD:
"The Art of Description."

4.45 p.m.—"Herald" News Service: Stock
Exchange Information.
5.0 p.m.—Close Down.

EVENING SESSION.

8.30 p.m.—Answers to letters and tributes
addressed to BILLY BUNNY.

8.40 p.m.—STUDIO QUARTETTE:
"Childish Memories."
8.50 p.m.—BILLY BUNNY:

"With you" (L. Gey).
9.00 p.m.—STUDIO QUARTETTE:
"Baby's Blues" (Hove).

9.05 p.m.—BILLY BUNNY:
"The Adventure of the Professor's Pocket."
9.10 p.m.—"Herald" News Service: Weather
Service: Selection Movement.

9.25 p.m.—Stock Exchange Information.
9.35 p.m.—Fish Market Reports by J. H. Be-
vort. Ltd. Radio Prices.

9.55 p.m.—River Reports.
10.00 p.m.—Newmarket Sheep Sales by the
Agricultural Stock and Station Agents,
Purvis-street, Melbourne; Market Report
by the Victorian Producers' Co-operative Co.
Ltd.; Football, Grand Prix, Sixes, Judo
Point, Wrestling, Prizes, and Options.

10.12 p.m.—Market Reports of Fruit.

NIGHT SESSION.

11.0 p.m.—Under the auspices of the DE-
PARTMENT OF AGRICULTURE, Mr. R.
J. de G. TALBOT, Veterinary Officer, will
speak on:

"Cattle in Victoria."
11.30 p.m.—COLLINGWOOD CITIZENS
BAND:

March, "Under the Double Eagle."
Overture, "Gabaiana."
11.40 p.m.—ANITA SHAW, Comedienne:

"A Singsong."
"I Don't Do Anything but Rain."

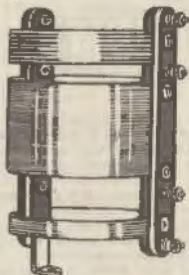
11.45 p.m.—MR. R. E. LOVE:
"The construction of a B. B. Eliminator."
Mr. Love will be glad to attend to your
wireless difficulties, and we ask you to write
to him for any advice that you may require.

11.55 p.m.—ANNOUNCEMENTS.
12.0 p.m.—THE HEALTH ASSOCIATION'S
MESSAGE FOR TO-DAY IS:

"We now know two certain facts about
disease, first, that it is not something
arbitrary, experience, occurs or recedes
but an effect of definite causes and condi-
tions, and, secondly, that these causes and
conditions are large and menacing ones
which are controllable by man."
—Sir George Newman.

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8.1 p.m.—COLLINGWOOD CITIZENS'

BAND:

"Lobengrin."

"A Lane in Spain."

8.11 p.m.—EILEEN CASTLES, Soprano:

"Cavatina (Bisau)."

"A Barque at Midnight."

8.18 p.m.—MR. C. J. WILLIAMS, with comment upon:

"To-morrow's Stadium Event."

8.21 p.m.—GUY MOORE, Tenor:

"Far Off I Hear a Lover's Flute."

"From the Land of the Sky Blue Water"

(Cadenza).

8.35 p.m.—COLLINGWOOD CITIZENS'

BAND:

Selection, "A Garden of Classics."

8.45 p.m.—EILEEN CASTLES, Soprano:

"Rumani" Verdi.

"Would God I Were the Tender Apple

Blossom," Londonderry Air.

8.52 p.m.—Announcements.

THE ROYAL AUTOMOBILE CLUB OF

VICTORIA'S SAFETY MESSAGE FOR TO-

DAY IS FOR MOTORISTS:

"Taking the other fellow's dust is better

than to dust yourself. Say it with brakes

and save the flowers!"

9.0 p.m.—EXTRACTS FROM "MISS HOOK

OF HOLLAND" BY SHEPPARTON

CHORAL SOCIETY:

CAST:

Mr. Hook (a widower, a wealthy liquor

distiller) J. P. McLennan

Captain Adrian Paap G. M. Paul

Lieutenant De Coop (of the Mounted Artil-

lery) Genf. Milton

Bandmaster Van Vuyt (quartered as

Artydyk) W. F. Crane

Lewig Schmaus (foreman of the Dis-

tillery, in love with Mina) W. Milton

An Old Policeman R. Long

Van Eek (a very ordinary Dutchman) ..

J. P. Gray

Simon Slinks (a loafer by the Canal of

Artydyk) W. F. R. Morrish

Eredk Voos F. Potter

Clara Voos J. Dudley

(Orphans sent to school at

(Amsterdam)

Gretchen (manageress of the Distillery) ..

E. A. Tergraveson

An Old Market Woman D. Pink

Mina (maid to the Hooks) Cora Crilly

Sally (Miss Hook of Holland) Annie Guthrie

Chorus of Market Folks, Soldiers, Cheese

Merchants, Villagers, Assistants in the

Liquor Distillery.

MUSICAL NUMBERS.

Opening Chorus: "To Market, to Market,

Song (Schnapps and Chorus), "Miss Hook,"

W. Milton.

Knitting Duet (Orphans), Mrs. Potter and

Miss J. Dudley.

Song (Slinks and Chorus of Men),

"Laxy Loufers," F. R. Morrish.

Song (Sally),

"My Away Kite," Annie Guthrie.

Cheese Chorus, "We've Purchased our Meat,"

Song (Paap and Chorus), Soldiers of the

Netherlands, G. M. Paul.

Duet (Sally and Van Vuyt and Chorus),

"The Sleepy Canal," Annie Guthrie and

W. A. Crowe.

Song (Mina and Chorus), "The Flying

Dutchman," Cora Crilly.

Trio (Schnapps—Slinks—Hook and Chorus),

W. Milton and F. R. Morrish and J. P.

McLennan, "A Little Bit of Cheese,"

Song (Van Vuyt and Chorus), "Tra-La-La,"

W. F. Crane.

Finale: "It is Inebriation."

ACT II.

Opening Chorus: "Any Time You're

Passing."

Madrigal, "Bottles."

Song (Sally and Chorus), "Little Miss

Wooden Shoes," Annie Guthrie.

Song (Mina), "A Pink Doty from Peter,"

Cora Crilly.

Song (Sally), "I Want to be Your Wife,"

Annie Guthrie.

Concerted Number, "The House that Hook

Built."

Song (Van Vuyt and Chorus of Gie), "The

Violoncello," W. F. Crane.

Song (Sally and Chorus), "Cream of the

Sky," Annie Guthrie.

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The Wonderful Blue Spot Headphones.
Featherweight, most sensitive phones made, 20/- pair.

Blue Spot Cells 15/- each
4-Volt "OLDHAM" Accumulators, complete in carrying case, 24/-

Finals. "With His Ton Lo-Lo."
10.6 p.m.—MELBOURNE CHORAL UNION will sing the test pieces for the Ballarat Competitions Grand Choral Contests. Musical: "The Silver Swan" ("Psalms No. 27" (Holt). "Hallelujah Chorus" (Bachmann).
10.10 p.m.—"Argus" News Service: Meteorological Information.
10.17 p.m.—COLLINGWOOD CITIZENS' BAND: "Gems of Gungah."
10.27 p.m.—Read Notes: Supplied by the Royal Automobile Club of Victoria.
10.32 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS: "Sam the Old Accordion Man" (Donaldson).
"The More We Are Together."
"Smaller" (Miller).
10.40 p.m.—ANITA SHAW.
10.52 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS: "Spring is a beautiful time of year, and not to be in the country to see it done is not realizing what glorious mastery we see, and how gloriously nature and art cooperate the fell owners of the season brooder the world for us." W.O.L.
11.1 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS.
11.40 p.m.—GOD SAVE THE KING.

Saturday, Oct. 8 2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m. to 9 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 p.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 p.m.—A talk by the 2FC Racing Commentator.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
11.5 p.m.—A.P.A. and Reuter's Cable Service.
11.10 a.m.—Studio music.
11.15 p.m.—A talk on Gardening by Mr. G. J. Lockley ("Redeem").
11.30 p.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" and announcements.
12.2 p.m.—Stage Foches, Great Hall.
12.3 p.m.—Studio music.
12.30 p.m.—"Sydney Morning Herald" news service.
Rugby wireless news.
12.35 p.m.—Studio music.
Note: The 2FC Racing Commissioner will describe in the morning the events of the last day of the Spring Meeting at Randwick.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
1.20 p.m.—Studio music.
During the afternoon the following musical items will be given:

The Wierbach Trio (Instrumentalia).
The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
4.30 p.m.—Complete resume of the day's sporting events.

8 p.m.—"Big Ben." Close down.
8.15 p.m.—EVENING SESSION.
5.40 p.m.—The "Climes of 2FC."
5.35 p.m.—The "Halls Man" talks to the children.

6.20 p.m.—Story time for the young folk.
6.40 p.m.—Studio music.
6.55 p.m.—"Evening News" late news service.
Weather intelligence.
7.10 a.m.—A full description of today's Spring Meeting at Randwick, told by the special 2FC Racing Staff.

NIGHT SESSION.

7.35 p.m.—Programme announcements.
7.40 p.m.—Lawrence Mazaruni, baritone: (a) "Kaval" (Schubert). (b) "This was once to match Kereka" (Korchi).
7.44 p.m.—Madame Emily Marka, soprano.
7.52 p.m.—Harold Harker, tenor: (a) "Bird song at evening" (Coste). (b) "The Star" (Reoper).
8 p.m.—"Big Ben." The Crystal Palace Theatre Orchestra under the baton of Mr. Harry Storer.
8.15 p.m.—Jack Dunne, baritone: (a) "Cheris I Love You" (Goodman). (b) "The Smoking Room" (Arnould).
8.23 p.m.—Madame Emily Marka, soprano.
8.27 p.m.—Eug. Lawrence Mazaruni, baritone and Harold Harker, tenor: "Waken up, waken up the night" (Rayner).
8.32 p.m.—Description and results of news from the (Federal) Press. (From the B.A. Grandstand, Sydney).
8.40 p.m.—Lawrence Mazaruni, baritone: (a) "Myself when young" (Lebanon). (b) Remembrance number.
8.44 p.m.—Madame Emily Marka, soprano.
8.52 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA under the baton of Mr. Cyril Kaye.
9 p.m.—"Big Ben." Latest weather forecast.
9.1 p.m.—Programme results of the Polling in the New South Wales State elections (from the Chief Secretary's Office, Macquarie Street, Sydney).
9.20 p.m.—Harold Harker, tenor (from the studio).
"A Dream of Happiness" (Asprey).
9.25 p.m.—The Crystal Palace Theatre Orchestra under the baton of Mr. Harry Storer.
9.35 p.m.—"Hear 11. Day 11."
9.40 p.m.—Mr. H. Carlo Thomas: "Time and Rhythm in ballroom dancing." A talk given especially for dance lovers.
9.50 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA under the baton of Mr. Cyril Kaye.

10 p.m.—Programme results of the Polling in the New South Wales State elections (from the Chief Secretary's Office, Macquarie Street, Sydney).
10.20 p.m.—Madame Emily Marka, soprano.
10.25 p.m.—Results from Suezway Royal.
10.30 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA.
10.40 p.m.—Jack Dunne, baritone: (a) "Is your own" (Hillman). (b) "I sometimes wonder" (Finlay).
2 "Old Floured Path" (Arnould).
10.48 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA under the baton of Mr. Cyril Kaye.

10.55 p.m.—Late news and announcements.
11 p.m.—"Big Ben." Programme results of the Polling in the New South Wales State elections (from the Chief Secretary's Office, Macquarie Street, Sydney).
11.20 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA, interspersed with musical items from the studio.
12 midnight—"Big Ben." Programme results of the Polling in the New South Wales State elections.
12.10 a.m.—Musical items from the studio.
1 a.m.—"Big Ben." Further Programme Results of the elections.
1.20 a.m.—Musical items from the studio.
2 a.m.—"Big Ben." Programme results of the Polling in the N.S.W. State elections.
National Anthem. Close down.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

11 a.m.—JOHNSTON'S STUDIO BOYS—March, "Oh! Painful Overture" (Seminole).
11.10 a.m.—EILEEN CASTLES, soprano: "So Near Home" (Arlett). "Little Boy Blue" (Nevin).

11.17 a.m.—CORNET SOLO:

- "Titanic"
Solist, J. Robertson.
March, "Cherry of the Clouds."
11.25 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Lucia di Lammermoor."
11.35 a.m.—ANITA SHAWE, comedienne:
"What are we waiting for?"
"Me, too."
11.49 a.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Madame Pompadour."
11.52 a.m.—NORMAN HILL, comedian:
"Johnson's Jubilee."
"The 11.59 Express."
12 noon.—Time signal. Metal prices, received by the Australian Mines and Metals Association, from the London Stock Exchange, this day. British Official Wireless news, from Rugby. Reuters and the Australian Press Association cables. Argus news service.
12.20 p.m.—JOHNSTON'S STUDIO BOYS:
Waltz, "Santiago."
12.30 p.m.—NORMAN BRADSHAW, tenor:
"Thou standest like a flower" (Liszt).
"I'm longing for you" (Haltway).
12.37 p.m.—Stock Exchange information.
12.40 p.m.—STUDIO QUARTET:
Selection, "Walden."
12.50 p.m.—NORMAN HILL, comedian.
"The Year's Fancy Ball."
"Diemal Jimmie."
1 p.m.—IT'S ONE O'CLOCK. Let us then be up and doing and doing to the purpose, so by diligence shall we do more with less perplexity.
1.1 p.m.—ANITA SHAWE, comedienne.
"I'll take him back if he wants to come back."
"That's a good girl."
1.6 p.m.—Meteorological information. Shipping Intelligence. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports. Rainfall for Victoria, Tasmania, South Australia and New South Wales.
1.16 p.m.—STUDIO QUARTET:
Selection, "The Street Singer."
1.28 p.m.—EILEEN CASTLES, soprano:
"Goodbye" (Foote).
"Irish Folk Song" (Foote).
1.30 p.m.—Description of Ido Walzer, one mile, 1 furlong, V.A.T.C. CAULFIELD, by "Muskiet," of The Sporting Globe.
1.35 p.m.—JOHNSTON'S STUDIO BOYS:
Duet, "Excelsior," W. Honey and R. Spencer.
1.42 p.m.—NORMAN BRADSHAW, tenor:
"Ah, Mieux de my Delia!" (Lichman).
"Star Victim."
1.49 p.m.—STUDIO QUARTET:
Selection, "The Hat" (Sitarski).
1.54 p.m.—JOHNSTON'S STUDIO BOYS:
"Russian Cradle Song."
2 p.m.—Close down.
2.30 p.m.—Description of Debutante Stakes, four furlongs, V.A.T.C. CAULFIELD, by "Muskiet," of The Sporting Globe.
2.35 p.m.—Description of LEAGUE FOOTBALL—Grand Final Match, at M.C.C., by MR. ROD McCREGOR.
2.45 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS.
3.10 p.m.—Description of Caulfield Stakes, W.F.A., 1 mile, 1 furlong, V.A.T.C. CAULFIELD, by "Muskiet," of "The Sporting Globe."
3.15 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS.
3.20 p.m.—Description of LEAGUE FOOTBALL—Grand Final Match, M.C.C., by ROD McCREGOR. Quarter-time.
3.45 p.m.—Description of Ringwood Steeple, 2 miles, V.A.T.C. CAULFIELD, by "Muskiet," of "The Sporting Globe."
3.50 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS.
4 p.m.—Description of LEAGUE FOOTBALL—Grand Final Match, at M.C.C., by ROD McCREGOR—Half-time.
4.10 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS.
4.25 p.m.—Description of Caulfield Guinea, one mile, V.A.T.C. CAULFIELD, by "Muskiet," of "The Sporting Globe."



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4.58 p.m.—Description of LEAGUE FOOT-BALL, Grand Final Match at M.C.C. by ROD MCGREGOR—Three-quarter-time.
 4.40 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
 4.15 p.m.—"Herald" news service.
 5.5 p.m.—Description of Torak Handicap, one mile. V.A.T.C., CAULFIELD, by "Musket" of "The Sporting Globe."
 10 p.m.—Final Scores, LEAGUE FOOT-BALL—Grand Final Match at M.C.C. by ROD MCGREGOR.
 During the afternoon the progress of the 125 mile cycle race, Warranahool to Melbourne, will be broadcast.
 8.15 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

5.30 p.m.—Sporting results.
 5.40 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKA-BURRA."
 6.10 p.m.—STUDIO QUARTETTE:
 "Nursery Rhymes" (Tobias).
 6.50 p.m.—MR. W. J. BUTCHER will give a talk on "Stamp Collecting."
 6.55 p.m.—STUDIO QUARTETTE:
 "Cradle Songs."
 8.40 p.m.—"Herald" news service. Weather reports. Shipping movements.
 8.42 p.m.—Stock Exchange information.
 8.47 p.m.—Market reports.
 8.50 p.m.—River reports.
 8.53 p.m.—Newmarket Sheep sales by Associated Stock and Station Agents, Bourke Street, Melbourne. Market reports by the Victorian Producers' Co., Ltd., Poultry, Grain, Straw, Jute, Dairy Produce, Potatoes, and Onions.
 7.10 p.m.—Market reports of Fruit by the Victorian Fruitgrowers' Association.

NIGHT SESSION.

7.15 p.m.—MR. E. M. PASCOE will speak on "Bowls."
 7.30 p.m.—MR. E. E. PESCOTT will speak on "Australian Blue Leishmaniasis and its Relatines."
 7.45 p.m.—DR. J. LEACH,
 "Australian Geese."
 Announcements.
 "The Million Shilling Fund."
 8 p.m.—THE HEALTH ASSOCIATION'S MESSAGE FOR TO-DAY is:
 "Strength comes from the kitchen and not from the chemist's shop."
 8.4 p.m.—STUDIO QUARTETTE:
 "There is a green hill far away" (Dunaid).
 8.10 p.m.—MADAME GREGOR WOOD:
 "The Spirit's Song" (Haydn).
 "The Puce's Road Song" (Novello).
 8.17 p.m.—STATION TRIO:
 "Dance of the Bees" (Gip) (Hadley).
 8.25 p.m.—MR. GREGOR WOOD:
 "My Heart's Desire" (Clarke).
 "On the Road to Mandalay" (Spinka).
 8.32 p.m.—STUDIO QUARTETTE:
 "La Bell Gavotte" (Grünfeld).
 8.40 p.m.—A Special Programme has been arranged.
 10.10 p.m.—STUDIO QUARTETTE:
 "A Balkan Episode."
 10.25 p.m.—MADAME and MR. GREGOR WOOD:
 Duets, "Who is Sylvia" (Teaton).
 10.33 p.m.—STUDIO QUARTETTE:
 "Toual Owen" (Grinn).
 10.45 p.m.—Late Sporting results.
 ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for to-day is:
 "You have no right to take a chance—the other fellow may have to take the consequence."
 11 p.m.—OUR GREAT THOUGHT:
 "It is a mistake to suppose that men succeed through success; they reach offense succeed through failure."—Samuel Smiles.
 11.1 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
 11.40 p.m.—GOD SAVE THE KING.

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All Readers' Queries Answered Here.

D.X. (CROOKWELL): It appears to me that there is an open circuit in the acid returns of such valve. Check this over carefully, or again perhaps one of the I.F. transformers have broken down to the primary circuit. It is possible that the filter transformer is defective. That would account for the ruffling sound of which you complain.

A.C. (CHASWOOD): This is quite in order. You would have to use a filament control rack in order to eliminate the current on the second valve. See "W.W." 6/5/27.

G.E.M. (NORTH SYDNEY): The lack of panel wiring diagram submitted to me is incorrect. You have omitted to connect G of the second R.F. neutralizer to G of the 2nd valve socket. This would account for your trouble.

P.J.K. (TRUNDLE): I would strongly advise you to employ Carboncote for an "A" battery. Any advertiser in "W.W." will give you the particulars and price.

L.F. (RICHMOND): In your location an aerial 100 feet long should be quite satisfactory. The rest of the particulars which you supply are too meagre to give correct information. Write again.

J.M.C. (HAY): The G.B. positive is the C battery positive which is joined to the A battery negative. The valve you specify is quite satisfactory for the Solotoyne without any alteration.

G.B. (ROZELLE): Glass tubes, \times in. are suitable. See "W.W." 28/9/27.

H.B. (HOTARY): Your alterations are correct. Pay attention to the "W" valve and you will find the benefit of the midget condenser.

C.J.S. (YOUNG): The R.F. Transformer is generally known as the coupler. Look closely to the back of panel wiring diagram and also the circuit diagram and you will be able to pick out such remarks as will allow the layout exactly as suggested and you may be assured of good results.

E.N.N. (DUNDOO): Write to Messrs. Colville Moore Wireless Supplies, Sydney, for particulars regarding their Neodyndyne receiver.

N.W. CHOOM (CANTERBURY): I can't understand your first question, which reads: "What type of is best for this set?" The "H" battery recommended for the "Extraordinary One Valve receiver" is dependent upon the actual valve used. There is no apparatus necessary to determine the "B" battery voltage, it is a matter of common sense. Look at a "B" battery itself.

J.M. (HARBURVILLE): I can't understand your query at all. The receiver you have built is generally accepted as one of extreme selective value. Pay attention to the coil valve.

S.H.H. (ESTELVILLE): Look carefully to the wiring in your radio frequency stage. It is certainly wrong somewhere. The bell-ringing transformer is necessary to the "B" battery eliminator.

G.A. (CONDAMABLE): I will communicate with you further on this matter.

G.R. (SANDRINGHAM): You have made an unwise choice with a 3 gang condenser used. I have viewed this condenser and would not expect to get satisfactory results were I to use it.

WIRELESS (WEST MAITLAND): I have no record of these stations.

J.E.T. (MAROUBRA): Alter the spacing of the coil bringing it closer so that it occupies only half the distance. The rest I have proved satisfactory on the spacing suggested, but more so when it was altered as I mentioned here. Pay particular attention to your reaction portion.

AKRAL (NEWCASTLE): Your present aerial is quite good.

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.

W.T. (GYMPIE, Q.): Why not build a modernized 2 valve receiver? See "Radio" of August for further particulars.

H.N. (CRONULLA): Purchase a Bromment Time Indicator from Swain and Co., Ltd., Pitt-street. The cost is 1/-. Your other query is altogether ambiguous.

T.B.S. (NUNDAE, Q.): Your circuit is quite in order, but you are employing wrong valves for radio frequency work. You would be better off with AEE valves in the radio frequency stages. Personally, I don't like the resistance coupled set you have at all. I can't say more than this.

W.G. (RICHMOND, Q.): The 5th terminal is for connecting the frame of the transformer to earth. I.F. small plate, I.F.P., equals H battery plus I.F. results grid. G is the filament. Relatively these may be reversed.

G.N. (GORDON): A vernier dial is worth while. The valve you are using is not suitable for the circuit.

H.F. (MANYL): I regret to hear this news. I suggest that you use a high resistance grid link of the order of 5 megohms and increase the number of turns in the primary and the secondary of the R.F. transformer.

P.S. (TEMW): Many thanks for your letter.

H.M.V. (DANDENONG): Your letter is very welcome. This little receiver is well named the Extraordinary One Valve.

J.H. (GLISHE POINT): Build the Harneke Two Valve Reflex from "W.W." 13/9/27.

A.R.K. (TEMORA): All the coils are wound in the one direction. Thanks for your remarks.

L.N.M. (ROCKHAMPTON): If you have an aperiodic primary this should not happen. The eliminator in question is prone to blow the fuses if the batteries are connected to the earth proper. Therefore, when the bottom of the primary coil joins the bottom of the secondary coil, this would earth the batteries, causing you trouble. Break this connection in your receiver, leaving the primary coil not connected electrically in any order to the earth circuit directly. This information was omitted in the article.

H.W. (ORRISNOOK): I can't tell you any more than my own results with this set. Several readers have built one and have expressed satisfaction on the distance getting facilities of this receiver. Two C batteries would not do any harm. The valves you specify are O.K., but stick strictly to the letter regarding the radio side.

J.E. (BELMORE): Your valves need rejuvenating. Take them to your dealer.

E.A.B. (PADDINGTON): You would hardly need a power valve on this receiver. If you intend to fit one you would do as advised to simplify the circuit. Omit to accept the heavy "B" battery required to work this power valve. Again a power valve requires a heavy C battery current. For particulars of the frame aerial see "W.W." 27/9/27.

J.F.D.W. (COLLARENEBELI): Reverse the connections of your reaction coil.

J.S. (ASHFIELD): The Jefferson transformer gives an output of 4 volts, therefore, it is always advisable to use a 4 volt valve in this eliminator. Do this and your trouble will disappear.

R.D. (WEST EGARAH): I can't understand this at all. Either your choke or your filter condensers are at fault.

V.E.N. (BROADWATER): I wish you had told me the brand of regenerative tubes substitute for condensers of 6000 micro. In your locally a single valve aerial of a length of 100 feet over all would be quite good.

R.N. (ANNANDAIE): Pay attention to the "H" battery voltage, increasing the detector voltage, until an oscillation can be heard, then adjust for tuning.

E.G.H. (WALKERVILLE): Many thanks for your letter, and I am glad to hear of your good results.

A.R.P. (GRACEVILLE): See "W.W." 28/9/27. This four-valve set would be more to your advantage.

D.C. (HREBBANE): Don't attempt this.

SAL (LEAVENLEIGH): This subject will be dealt with very shortly in "W.W."

A.E.R. (CARLTON): I am afraid that you will have to resort to some form of trickle charger until there is a more perfect system of "A" battery elimination known.

N.O.W. (PICTON, N.Z.): I regret I am not sufficiently familiar with the super hetero you mention to be able to advise you. I understand it is a reflex receiver and while claiming to be competent to know a standard reflex receiver, when it comes to a super heterodyne, I must admit my knowledge is limited on reflex receivers.

B.O.B. (ALEXANDRIA): I hardly think it worth your while going to the trouble of altering your receiver to hear this station.

R.M.D. (DOUBLE BAY): This is not practical.

W.H.E. (GLADSEVILLE): The Bradelyton you have in quite in order. Pay attention to the "B" battery voltage on the detector valve to help you from the point of view of selectivity.

B.H.S. (CRONULLA): The Jefferson Bell-ringing transformer is absolutely essential, but the Ford set may be used as the choke.

E.E.H. (SYDNEY): The installation of Macuracan Tone Purifier will overcome this trouble.

A.L.G. (HAMPTON, VIC.): The circuit is quite suitable, as are your components, but don't add a stage of radio frequency.

J.C. (ALINGBURY): Obtain the Admiralty Handbook on Wireless from Messrs. Turner and Henderson, Bridge Street, Sydney.

A.K.A. (WOOLLAHRA): I certainly can't do this. You would not ask me to break a condenser, surely.

J.R. (DOUBLE BAY): Marvellous as the Marinkay is, the Extraordinary One Valve is a decided improvement. Build it. You should have had good results with the Marinkay provided you used a Bradstreet or a Filostat, to control the filament current, and also the regeneration.

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All Readers' Queries Answered—continued.

A.C.S. (TERRILL): Get new valves.

V.P. (GORDON): I would rather see you with a straight-out 5-valve receiver.

J.P.K. (NORTHWOOD): Your suggested scheme is in order. It is a very easy matter to devise your own layout, the other matter will be described in "W.W." later.

E.D.H. (HURLSTONE PARK): See reply to J.E. (DOUBLE RAY).

R.R.E. (MANLY): This is quite alright. See reply to L.M.N. (ROCKHAMPTON).

M.F.C. (BONDI): The general radio kit specified is very good. Try the All-American Kit.

H.D. (WILLOUGHBY): Note that your condenser is running truly, in each unit. I feel sure a slight adjustment will overcome your trouble.

R.F.B. (EIJ): I did not receive your previous letter. Please write again.

A.G.H. (WELLINGTON): Your present condenser is quite in order, but use two others of a similar brand and size.

L.S. (STH. STRATHFIELD): See "Radio" of August, 1927.

A.T. (DUBBO): Your sockets and transformers are quite in order.

T.E.G. (COULBURN): All you require to do is to plug the connections from the adaptor into the detector socket of your broadcast receiver irrespective of how many stages of radio frequency you may have. The aerial and the reaction coil may be mounted on dilecta rod in such a way that the inductive relation may be altered. See October issue of "Radio."

C.H.P. (CAMPERDOWN): Follow out your own scheme, it is quite alright.

A.F.R. (WINGHAM): We have no back copies with these particulars, but in the near future it will be done over again.

H.R. (DURBO): You have made a mistake in your "A" battery wiring. Check that over.

J.C. (WAVERLEY): Add a few more turns to your secondary coil. I should suggest a further 20 turns.

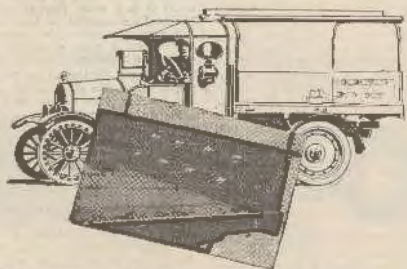
H.M. (MORTDALE): I don't like the condenser you are using.

G.O.M. (DALGETY): The station you heard was a New Zealand amateur. Just what his address is I don't know for the moment.

T.D. (BUNGERDORF): It may take you quite a few weeks to balance an super heterodyne. From your letter it appears to me that you have a reasonably good knowledge of radio. The circuit is correct. In every degree, and a closed circuit should reveal itself when the usual test is applied to the terminals of C6. Check over very carefully and write me again if no better results accrue.

A.C.S. (BAAC, VIC.): It appears to me that your 1 gram condenser wants balancing correctly; use that all the moving plates in each unit run truly with the corresponding distance of dielectric constant.

J.E. (CLOVELLY): I would rather see you with more modern condensers. The 40005 type specified are splendid, and are to be recommended. Many thanks for your remarks.



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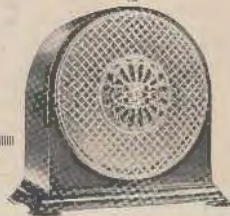
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