

# WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 9

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

NUMBER 26

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Friday, April 22, 1927.

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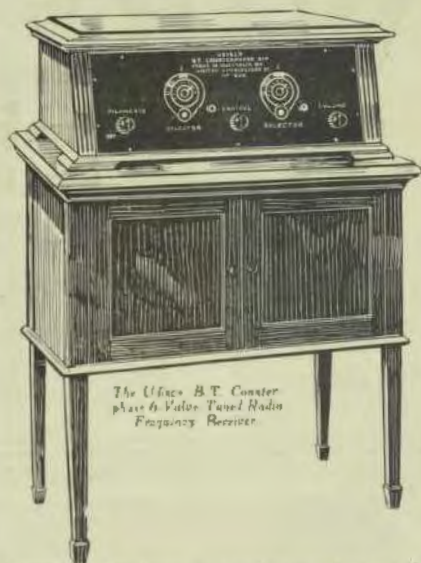
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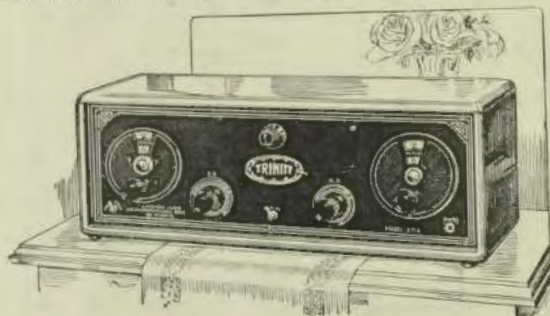
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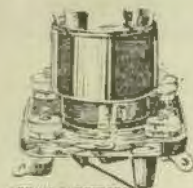
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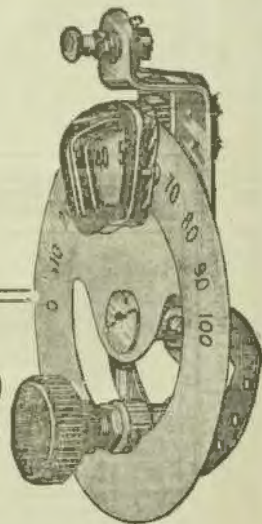
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# WIRELESS WEEKLY

VOL. 9, No. 26.

FRIDAY, APRIL 22, 1927.

## Quality and Quantity

**A** DAY or two since, as is our custom, we stepped into the correspondence branch of Farmers' Broadcasting Service, where one may find the most varied collection of manuscripts in existence. The manager with some pride waved us toward the huge pile of letters received in recent mails, and we were invited to read (the manager has a sense of humor) some 2500 letters bearing on the broadcasting of the arrival of the Duke and Duchess of York; in another file were neatly indexed and numbered 700 odd letters addressed as a direct reply to a sentence let slip by Captain Hurley one night recently; and in yet another file we were shown a formidable bundle of letters and telegrams (not a few of these latter, so is the habit of racing men) from sporting fans in answer to a query, "Do you like racing talks?" with which Mr. Ferry concluded his address a week or two ago.

The manager is a diplomat and having thus disarmed our criticism by displaying his bouquets in advance, he had braced us for the brickbats. But, and here we were surprised, they numbered not more than a good four score, and casting aside the miscellany of minor complaints about half of these could be attributed to a single cause; with variations they asked, "Why are our programmes shorter?"

Beside the flattering comments of the former letters we were tempted to ignore them altogether, for they appeared to represent a small body of opinion, indeed, and their number was undeniable proof of the logic of the manager's argument. Listeners, he maintained, preferred their programmes to be a saturated rather than a diluted mixture of good things. By curtailing the programmes several hours the station was able to place quality before quantity. The present volume of revenue warranted but a certain expenditure upon the programmes, no matter what their length.

The small number of complaints received by 2FC on this score in comparison with the large number of compliments on the improvement of the programmes seems to be all the evidence that is necessary to show that the manager is right. The majority of the brickbats were from late night jazzers and early morning rural workers, classes as distant in nature as the poles, yet both, the records show, singularly backward in expressing their opinion on the broadcasting programmes.

By far the best feature of the new policy is that it is a mutual agreement between the two Sydney stations. Let all listeners hope that it is but a forecast of further reciprocal arrangements wherewith the public benefits.



## Between You And Me And The Microphone

Conducted by Jack Plugge



THE FIRST WIRELESS journal for the blind has just been started by the well-known French publishing house of Chiron in Paris. It is printed in Braille.

F. F. BEMIS, Electrical Division, Department of Commerce, recently announced the leadership of the United States in the export of radio apparatus. In 1925 shipments were valued at £1,980,791, being nearly one-third greater than that of Great Britain. British sales to Europe constituted more than 41 per cent of the total British radio exports, while American volume is built up largely in Canada and Latin America.

PHILIPPINES GET BURY. A new radio bill has been passed in the Philippine Islands under which listeners will be required to subscribe to their local broadcasting station. The principal station, at Manila Heights, has just been re-organized, a new transmitter and new studio having been installed. Listeners who can tune in JOBK, JOCK, or JOAK should be able to hear this station.

THE DEPARTMENT OF COMMERCE, Washington, has just received a letter from a New York citizen asking whether he might remove the seals placed on his wireless equipment by the naval authorities when America declared war on Germany in 1917.

THE TWO AERIAL TOWERS perched on top of the State Insurance Building, and which make 40G a land mark for miles and miles around, will shortly become an object of interest by night as well as by day. A bright blue light is to be fitted to the top of each tower.

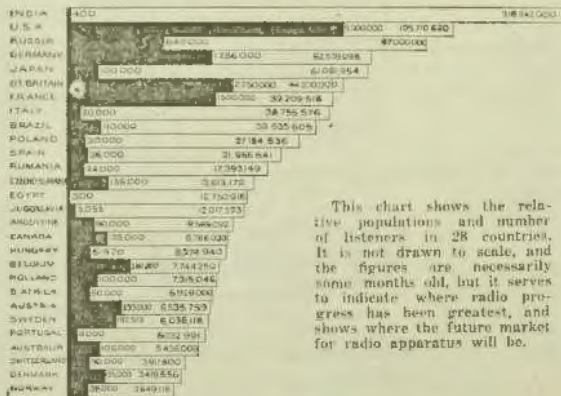
TO THE TUNE OF #150. Mr. Horatio Nichols, the song writer, telephoned a song from New York to his publishers in London recently at a cost of £150. The song took thirty minutes to transmit. The words and notes were first actuated to the leader of a famous orchestra in London, and the song was then sung by the composer. The conductor orchestrated the melody, which was played at a London music-hall on the same evening.

By 1928 JAPAN will have a wireless station with a power of 600 kw., according to a report in "Eastern Engineering." The station will be the property of the Japanese Wireless Telegraph Co., an official concern enjoying the support of Parliament.

REPORTS FROM NEW ZEALAND state that the foundations for the new super-power station at Wellington are now laid and that the foundations for 250 feet towers are in—sunk fifteen feet into solid rock. Private information from England states that the Western Electric Company say that pending the erection of a 13 K.W. station in India this station will be second only to Daventry in the British Empire. It is understood that the opening programme will be rebroadcast by one of the Australian stations, probably 2BL.

STATION 5YA on Sunday, March 13, rebroadcast for about ten minutes a programme received from one of the Pacific Coast stations and the good people of Christchurch wondered what had happened. Crystal set owners got a severe shock to hear an American station announced. As no announcement had been made the astonishment grew—it happened to be one of a series of tests by 5YA's engineers in relation to the rebroadcasting of different stations operated by the Radio Broadcasting Company of N.Z. But this was a complete success.

A UNIQUE INCIDENT happened during the midday session of 4QG on Wednesday, March 23. As market reports were being broadcast several distinct sounds like the chirping of a bird were heard by the engineer on duty, who immediately made his way to the studio to investigate. The announcer had the microphone placed near to an open window owing to the oppressive heat and on the window ledge a Pevit was perched. Here was the cause of the unusual sounds. 2FC has been attempting to train birds for the purpose of broadcasting their calls, but it was left to 4QG's uninvited but nevertheless welcome feathered guest to favour listeners with his song.



This chart shows the relative populations and number of listeners in 28 countries. It is not drawn to scale, and the figures are necessarily some months old, but it serves to indicate where radio progress has been greatest, and shows where the future market for radio apparatus will be.

# For the Love of "Mike"

**Arthur Stigant,**

**Professional laughter-maker for J. C. Williamson, tuned his tickler feed-back regenerative squealer to 2FC the other night and records here his impressions of that station.**

**Yes, that's Arthur on the right!**



**I**SAY! do you ever listen to the news over the air? I always longed for publicity, to have my name mentioned on the wireless, but I've changed now. The other night several of my neighbours blossomed into the limelight and had their names mentioned. I don't think the license is worth the money some people pay for it—do you? I say "Some People." The inspector put our way used to be quite a decent bloke, although very short-sighted. He seemed perfectly satisfied when we showed him the dog license, but he seems to have changed too. I know my neighbours think so.

You know I had a birthday last week. Mother made me a cake with 80 candles on it. We listened in that night to the Hello Man, and think of my surprise when I heard something like this: "Hello Arthur of Yarnog Street, Woop Woop, Dear little chappie, how kind of mother to make you that lovely cake. Had you to get the Fire Brigade to put out all the candles? Write me another nice long letter again next year, dearie, and I'll give you another surprise. Thanks for the fruit, Uncle loves you, Bye-bye, God God." It's wonderful how these Uncles do remember one's birthday, isn't it?

Mind you, I don't agree with people who complain about the Church Services on Sunday. Personally, I like them. I love to hear a silver-throated boy chorister uplifting his soul in song. A beautifully sung anthem positively thrills me, but unfortunately I have to help the wife on Sunday mornings, and by the time I've washed the dog, cleaned the fowl pens and polished the knives, the sermons are on. Of course, that is like carrying coals to Newcastle, because when a fellow has a modern wife he seems to do nothing but listen to—anyway, I like the lady who broadcasts "Baby Welfare."

The other day she said, "Never chastise a child on an empty stomach." She's quite right. I never do. I always turn mine the other side up.

I went to the set the other day to hear the result of the last race in Farnwick. The announcer at the studio, who evidently had a grass lawn at home and wants to water it with a fixed hose, was busy with the "river reports." He declaimed melodiously, "The Murray at Seymour, drop one inch; Albany, drop 2 inches; Murrumbidgee at Wagga Wagga, drop 3 inches." I didn't want to know how much the Murrumbidgee had dropped at Wagga Wagga. I wanted to know how much I'd dropped at Randwick.

There's one thing we find invaluable about 2FC. It's those little lectures. My wife loves to listen to Mr. Lockley's talks on the flower and vegetable gardens, and there's always tangible proof of her interest popping up. A few weeks ago she got in a sack of bone dust. She had it deposited in the garage. It's the only shed we've got outside. You can't put a sack of bone dust in the pantry. It would only start a discussion with the paragonella cheese, and they'd have to be forcibly parted—so into the garage it had to go.

After the next lecture I found the garage getting congested. A sack of blood manure and a couple of sacks of lime had arrived. Old "Redrum" told her the following week about the aphid and how to disperse it by spraying. There are different kinds of aphid—here's the green aphid—the black aphid, and the black and tan aphid, and they all require different treatment. Of course, it's cheaper to

make a spraying mixture or a mulch in large quantities. You can dip a kerosene tin into a cask, go out, and spray it all over the plants in less than no time. So we've got huge casks full of red oil and green oil and sulphate of soda and sulphate of ammonia and syrup of squills and all sorts of mixtures in the garage now. I've hired a garage at the end of the road for the car.

2FC certainly should not broadcast plays. That cannot possibly be successful. A listener-in cannot visualise what is happening on the stage sufficiently unless he has already seen the piece at the theatre; and is very liable to get an altogether wrong impression. A friend of mine listened in the other night to a drama, and when the hero cried in an agonised tone, "It would be better if I were dead," there was a terrific round of applause from the audience in the hall. Naturally, he thought the audience was expressing its private opinion about her. How was he to know the hero had made his entrance at that moment! and that the audience was extending to him a warm welcome.

Another thing 2FC does. Every Friday night they get some gilly ass to broadcast a lot of twaddle from his dressing room at the theatre. I always thought actors were muffs. They're the most unbusinesslike lot

of people I ever met. Other people broadcast from the studio and get paid for it.

But, talking of actors and acting reminds me that I have an announcement to make:

I am giving up acting.

"Ah," I think I can hear someone say, "but why, oh why, is your decision so belated. What a deal of pain and sorrow would have been spared if you had done that sooner." However, I will tell you about it. I have a talent, a talent I have hitherto hidden—not in the proverbial serviette—but spade deep beneath the vegetable patch; rather in-fra-dig, eh?—a shining light which I have concealed as deep down as a Turanaki oil bore. The fact is I was born to be a wheelwright—no, no, a real writer—a playwright.

What awoke me to the fact was a card displayed in a tram. It had a map of Australia on it, and above and below read the slogan: "Wherever you trade, buy Australian made." That brought to my mind many newspaper interviews which I had read and in which local theatrical magnates one and all declared they were ever anxiously searching for a good Australian play. As one inspired came to me these words: "Australian dramas for townies and farmers." I was fired; I had a mission. I, myself, I determined would satisfy their craving. I would supply their demand for home-grown plays. I retired to my study. I grant it is not exactly conducive to thought, my study, but our house is small, and when the wife allowed me to have a small table and chair in the corner of the washhouse—well, I can scribble all the week but Tuesdays. On Tuesdays, odour and hope give way to ink and soap.

Well, as I say, I retired to my study. For weeks I slaved. Nothing passed my lips but my usual four meals a day, and at the end of two months I had evolved and completed Australia's First Great Historical Drama. Captain Cook was the hero and the central figure. I had moulded the play round his life, just as "Lilac Time" was written round the life of Schubert; and I called it "Wattle Time." The Title was an inspiration. I'm only surprised that none had thought of it before. I made Captain Cook partially blind. The central character of a play must have the sympathy of the audience, and who gets more sympathy than the man who can only keep one eye on the clock when 5 strikes.

He might work overtime. However, a man can't go round the world discovering it, if he goes without at least one eye well open; so I split the difference and gave my hero one good eye. Of course, I could have gone for a cheap laugh by making one of

the characters say that he had "lost the other one looking for work"; but no, I had no idea of "tickling" the ears of the "Groundlings," as Shakespeare says. Although what groundlings are, and why their ears shouldn't be tickled if anybody had the time to spare to do it, I don't know.

I made him lose his eye in Act I, in an encounter with a crowd of savages on a beach in N.S.W. I didn't show the actual fight; but I thoroughly gave the audience to understand that that was how Cook lost his eyesight. Of course, you must work up to a happy ending, so I made the villain (Cook's second lieutenant), while masquerading in Cook's uniform, get killed by savages on the Sandwich Isles, while Cook returns

to Australia, marries a lubra, and lives happily ever after. Then in a kind of blank verse epilogue, I show his great grand grandson, Sir Joseph Cook, being made High Commissioner in London, with the members of the Royal Family grouped at his feet in adoring attitude.

It was a very fine piece of work. I sent it to J. C. Williamson's the next day and confidently awaited the news of their acceptance. A letter came the following morning, saying that as the moth had got into their 1760 period wardrobe they would prefer a play set in more recent times, preferably the present day.

Of course, it's the easiest thing in the world to dress a play of the present day. Owing to the utter lack of sartorial taste the wardrobe can be secured at any second-hand shop, and also it was the easiest thing in the world to bring the play up to date. I made Billy Hughes the hero instead of Captain Cook. In the first act he had an encounter with a gang of waterfront workers at the Woolloomooloo wharf. I did not give the actual language used; but I thoroughly gave the audience to understand that that was how I thought Hughes lost his hearing.

Later on, in a very dramatic scene, he acquires a nugget worth \$25,000; and in the blank verse epilogue Hughes is made High Commissioner in London with the aforesaid high performance in the aforesaid low positions, while the villain, for his misdeeds, is made Governor of N.S.W.

It took no more than a week for me to rewrite it, and I sent the new script to J. C. Williamson, Ltd. The directors scribbled the next day that they had, in the interval, concluded contracts for all their dramatic productions till the autumn of 1928; but asked if I had an Australian musical comedy I could submit for their consideration. I hadn't, unfortunately. However, I packed up my manuscript and sent it to another manager whom I cannot designate by name—I will call him Mr. Dash. It was just the play to suit him, I felt sure. But it was all very unfortunate.

I called on him at the theatre the next day, and when I enquired for him the secretary was very upset. It appeared that Mr. Dash had, the night before, been deeply immersed in the study of a bundle of papers, contents unknown; and had sat up half the night reading them. Early in the morning disturbing symptoms developed, a doctor had been called in, and had ordered his instant removal to Gladstoneville asylum. It was just my luck. I feel sure he would have liked my play, and professed it, if only he had read it. By a strange coincidence another manager was taken to Kew Asylum under similar circumstances. Peculiar.

Continued on Page 13

### SLO. TO CANBERRA.

*Township we send a message  
northward bound  
Across the plains, across the  
great divide,  
To greet the new Canberra, soon  
to be  
Australia's sovereign city and  
her pride.*

*Canberra, Hail, Australia offers  
you,  
The fairest, youngest of her  
happy towns,  
The queenship of them all. We  
joy to see  
You thus arrayed in all your  
regal gown.*

*Though you are young, all that  
we have is yours:  
The wondrous stories of our  
pioneers  
And Anzac Men, our great  
ideals.*

*Are in your keeping for the  
future years.*

*Our story and our many hopes  
we give  
Into your keeping, knowing well  
that you*

*Will guard our hopes and see  
our story told  
As it must be while southern  
hearts are true.*

*Beloved Canberra, all Aus-  
tralian eyes  
Are turned to you. Your vigil  
soon will pass.*

*The royal hand will touch and  
you will rise  
To be reckoned; to you we  
charge our glass.*

*From S.L.O. who shares your  
happy youth  
Accept a wish for golden years  
of peace,  
May it be yours to serve our  
native land  
More fully, truly, on the years  
increase.*



# Did Sydney Stations Show Enterprise?

In the article below, our Melbourne Correspondent says "NO!"

**D**URING the Duke's visit to Sydney I had leisure to observe the tremendous part wireless broadcasting played in the proceedings. Descriptions of the main events of the visit were given, and once or twice the Duke's own speeches were broadcast.

I could not help reflecting, however, that the Sydney stations failed to show enterprise above the ordinary. I looked for something unusual in tune with the unusual occasion. I was present at the extraordinary spectacle of the People's Reception at the Town Hall, and was impressed by the incessant shuffle-shuffle of countless feet of that marching multitude. What an unexampled opportunity it would have been to have had a microphone and a man with the gift of speech at the head of the Fruit Street steps! To the listeners in the bush a few words of description to aid the imagination would have enabled thousands beyond the city to have visualised that army of men, women and children who tolled so patiently for nearly an hour and a half on those stone steps; to have actually heard the tap-tap of boots and shoes on stone and the murmur of excited people. I can imagine what 3LO would have made of such an occasion.

Speaking of descriptive talks on such occasion, the average announcer lacks the gift of color, fails to produce the atmosphere of the event. There is a lucrative job waiting for the perfect "describer" of public events, a man with a flow of speech, a picturesque vocabulary, a seeing eye, a vivid imagination, a sympathetic "feeling" for what the unseen thousands want.

## Sound and Vision Synchronised.

At the landing of the Duke and Duchess in Sydney, I was particularly interested in watching the progress of the attempt made by Captain Hawkins to take the pictures of the Royal pair with a cinema camera that also records the sounds of their voices synchronously with their pictures.

A microphone was hidden on the steps of the Lord Mayor's arbor, where it had been arranged that the Duke was to stand while he replied to the Address of Welcome. Unfortunately the arrangement was not adhered to, and the Duke stood too far away from the instrument to



Taylor and Summers, English entertainers who have been engaged by 3LO, Melbourne for a season. Both are artists of first class English reputation, credited in the best schools of comedy and stage-act. In Australia the clever couple have met with great success on the Tivoli circuit, and have also had their own Pierrot organisation.

make success possible. Nevertheless, the following day, a picture of the Renown Band was taken and a simultaneous record of the music they played. I feel sure that the machine will play a big part in public events, and will gradually take on importance with regard to wireless. It is certain that television will be the next big development in wireless. Already it has been successfully tried out, though much has still to be done.

## Wireless Recognition.

Travelling the other day to Bulli, I had an interesting illustration of the far-flung influence of wireless, together with an insight as to the popularity of 3LO in New South Wales. Everyone who has used the Great Southern Road knows Premier Point on the top of the Bulli Pass, whence such a glorious prospect meets the eye. Captain Maer, who lives at Premier Point, was chatting to me, and although he had never met me, he found something about me that gave him a vivid sense of familiarity. It was as though he knew my personality, but was positive he had never actually encountered me in the flesh. It was as though a ghost of some dimly remembered friend had appeared.

At last the enigma was solved. He has a wireless set and 3LO is his favorite station. It was my voice that had started a train of association in his mind, and when he knew my name, he recollected that he had often heard me speak from the big Melbourne station. It was as though

he had met a friend after a long absence. The incident gave me considerable pleasure, for it confirmed my contention that personality, as well as sound, comes across space. One gets a very fair idea of the sort of chap it is speaking into a microphone, even though thousands of miles separate speaker and listener. Every listener that is actually known to be tuning in with interest in a particular speaker helps the latter to project himself better. It is a "getting-together" for a broadcaster to meet his unseen audience, or at least as many as possible. For this reason the parties 3LO gives periodically at which favorite Uncles and Aunts meet their "public" serve a very good purpose.

Of course, the thing may easily work in reverse. It may sometimes be a mistake to allow realisation to spoil the imaginative picture. I once overheard two girls talking in front of a delightfully poetic water-color by a well-known artist. One of them waxed enthusiastic.

"How charming he must be," one said, "I can just picture him, a handsome, slim poet, with great soulful eyes that look beyond you to the eternal verities he paints," or words to that effect.

"Be careful," warned her friend, "he is just behind you." The enthusiast turned, and "Good God!" was all she could say, as she got an eye-full of the squat, somewhat unwashed, shabby fellow. Now she can take no pleasure in the art, having seen the artist so close.

# The Safety Valve

A department in which readers are invited to relieve their feelings by commendation or condemnation of broadcasting stations and their programmes. All letters must be addressed to "The Safety Valve," Wireless Weekly, 51 Castlereagh St., Sydney.



## OTHERS MAY THINK DIFFERENTLY.

Dear Sir,—So varied and interesting are the programmes that I think the various stations would be foolish to interfere with them as they are now. A small improvement could be made, however, by preventing the accompaniment from playing louder than the artist. Flute, cornet, mouth organ, guitars, violin and even songs are better without the accompaniment. I am not wrong, but others may think differently.

Yours, etc.,

LISTENER-IN.

Marks Point.

## RUBBING IT IN.

Dear Sir—The more I listen-in to 2FC and 2BL, the more I like 3LO. Unless the ethereal mixture which the former stations pump into the air is greatly improved, many aerials will shortly become clothes lines. I think these two stations have spent too much time in presenting each other with bouquets and brickbats instead of thinking out programmes and searching for talent. Their latest broadcast announcement, however, suggests that old wounds have healed, and the radio generals have been binding elbows together and by mutual agreement they have decided to cut down the programmes by five hours each day. It is strange that though they can agree for their own benefit, they cannot agree when the result will benefit listeners.

Yours, etc.,

S.H.E.Y.

Fairfield.

## LOCALS POOR.

Dear Sir—I fully endorse "J.B.'s" remarks ("Wireless Weekly" 25/3/27) re our Sydney stations' programmes. They are hardly worth the trouble of keeping a set. I tune-in to 3LO when I want a decent musical evening. 2RL comes through very steadily, but 2FC is really horrible at times. The popular songs never get a look in at either station. Uncle George does his best, but he isn't on when we have time to appreciate him. Miss Elsie Peerless isn't on often enough either.

Yours, etc.,

ONE MORE SUFFERER.  
Grazville.

## SOPRANOS, MOTOR BIKES, AND BAGPIPES TABOO.

Dear Sir,—When I listen I like a bit of everything that is going on, but the everlasting transmission of motor bikes, race horses, and sopranos is too much of a good thing. We get too many of these kind of items. What we want more often is a light, a mouth organ now and again, concertina and accordion at times, but never a bagpipe. One feels disappointed at times after having had a set and only getting sporting all Saturday afternoon. If something is not soon done, there is one who will buy a cheap gramophone and play it to his heart's content.

Bull,

Yours, etc.,

FISHY.

## SPEEDWAY FOR EVER.

Dear Sir—Let me inform "J.G.P.'s" ("Wireless Weekly" 18/3/27), that there are many in Lismore who derive much enjoyment from the detailed accounts of both Sydney and Brisbane Speedways, especially to those having visited them and knowing many of the riders. There are six nights a week in which "J.G.P." can listen to bands, songs, etc. so why begrudge motor bike enthusiasts a chance to listen to their favourite sport. Remember, Murwillumbah is only one town in Australia.

Yours, etc.,

H.T.

Lismore.

## ALL IN FAVOUR, PLEASE.

Dear Sir.—Would it be at all possible to test the feelings of readers of your paper on the Speedway transmissions?

I would not like to attempt to thrust my feelings in this respect on people who differed from me, but, like a good many other listeners round about here, I think that the broadcasting companies who are responsible for these transmissions would be considerably surprised and enlightened if by some means you were able to show them the "for and against" of such transmissions.

Motor cycles are, to my mind, atrocious distortors of the peace at any time, though I realise they are a necessary forte of the community, and have their uses. That there is a big following of the Speedway contests is borne out by the enthusiastic crowds that congregate to witness them. I should also imagine it would be thrilling sport to watch same, but to listen-in to a race being broadcast is, in my opinion, indescribable agony.

You may ask, why I do not tune out the offending station. Like "J.G.P." in last week's issue I attempted to, but with like results, the only difference being that 3LO had descended to the Speedway level, whilst 2FC had apparently given the matter considerable thought, so decided to cut out the Speedway. 3LO committed the heinous offence of interrupting, on one occasion, some very fair music being played by the Brunswick City Band, and switching on to the "superb" strains of a motor cycle's exhaust.

The programmes put over by our broadcasting companies, I am sure, compare with any others the world over, and I feel sure they will rather welcome than condemn this little criticism of the Speedway Contests.

Yours, etc.,

GEO. B. CLASPER.

Byron Bay.

## SLEEPY RADIO MUSIC.

Dear Sir.—Why have 2FC and 2BL cut out an hour of our nightly entertainment? If they gave us three late nights a week, each until 12 o'clock, say one each on Mondays, Wednesdays and Fridays, it would not be so bad. And they close down on Sunday nights far too early. Why can't we have some music on the player-piano late at night from 11 o'clock until 12, if we cannot have dance bands? It is very nice to listen-in late at night to some good fox-trots and waltzes, when you do not feel sleepy. I miss it very much.

Yours, etc.,

V.P.

Gordon.

# IT'S ALL IN THE AIR

## Coming Features in the Broadcasting Programs

ON MONDAY, April 25, St. Quintin Downer, the noted pianist, will commence a series of recitals from the Studio of 2FC.

ORCHESTRAL and choral items will be taken from the Sydney Town Hall next week, during the filming of the special Eucharistic Congress film.

"COUSIN FROM NOWHERE."—By courtesy of J. C. Williamson, Ltd., the 2nd and 3rd acts from "Cousin from Nowhere" will be broadcast on the last night, Friday, April 28.

ON TUESDAY, April 26, Mr. J. G. Lockley will give a reminiscent talk on the visits of various fleets from England to Australia, dealing principally with the fleet which reached our shores in 1882.

A MEXICAN PROGRAMME.—On Sunday evening, between 6 and 7, a special descriptive programme of Mexican music has been arranged by Madame Consuelo de Aldag. Listeners will remember with pleasure her last lecture recital, and a most instructive hour is anticipated.

A FAMOUS ARTIST.—Alfred O'Shea, Australia's foremost tenor, whose delicate handling of the microphone has made him doubly famous in the world of radio, will shortly be heard again from 2FC. A fresh series of appearances are being arranged, and listeners may look forward to this artist at an early date.

ROYAL SYDNEY APOLLO CLUB.—On Tuesday, April 19, the Royal Sydney Apollo Club will render special part songs and choral numbers, under the baton of Mr. Arnold Mote, from the Conservatorium. Cello solos will be given by Jules Van der Klei, the Belgian cellist, and soprano numbers by Miss Gladys Verona.

PRINCE EDWARD THEATRE.—2FC have made special arrangements whereby a transmission will be taken from Prince Edward Theatre, and on Saturday night, April 30, a programme has been arranged particularly suitable for broadcasting. Listeners will have an opportunity of hearing Will Prior's famous orchestra, and items from the Grand Organ.

W. F. KAY'S TALKS on IMMORTALS OF THE SYDNEY STAGE are becoming more interesting at each session. Next Thursday, April 21, the subject of his talk will be "Poverty Point."

AD. CREE'S MERRYMAKERS were enthusiastically received by listeners when they presented their diversified programme from 2FC Studio last Monday night. Further opportunities will be given of hearing these original artists.

ON SUNDAY afternoon at 4.15 Miss Milli-Meyer will begin a series of interesting lectures. Miss Meyer for 10 years with her own caravan travelled the desert of Palestine, Asia Minor, and Montenegro, and her experiences will be well worth while listening to.

ALL - AUSTRALIAN PROGRAMME.—On Tuesday afternoon, April 25, a musicale has been arranged by Miss Hilda Keith and Mrs. Arthur Scrivener, at Burdekin House, when an all-Australian musical programme will be given. 2FC have exclusive broadcasting rights, and listeners will spend a very enjoyable hour. The entertainment commences at 3 p.m.

AN OLD STAGE IDENTITY.—But "old" only in fame. Andrew Higginson, whose work in "The Merry Widow" created such a stir, is back again, and will be heard from 2FC on Thursday, April 28, in association with Miss Enid Lavis.

2FC have also arranged a series of Studio appearances for George Welch, the well-known comedian. Listeners can look forward to his first date, April 20.

IN FUTURE on Saturdays 2BL will make the programme entirely sporting from 3 p.m. until 11 p.m. For instance, on this Saturday during the afternoon all races and other sporting fixtures will be broadcast, in addition at 15 minutes' intervals the ring events of the Show. At night time the Maroubra Speedway, the fight at the Stadium, and the Electric Hares coursing at Epping Race Course, so the public are ensured that in future Saturdays will be as far as practicable reserved for Sporting.



Captain Frank Hurley  
(see paragraph immediately below).

"WIND JAMMERS AND SEA CHANTIES" is the title of Captain Frank Hurley's fourth adventure talk. No greater evidence of this versatile adventurer's popularity can be obtained than the hundreds of letters which have been received at 2FC Studio, all of which, in true Oliver Twist fashion, "ask for more." Effects, musical and typical, have been studied for this talk, and the material offers numberless opportunities for that atmosphere which counts for so much in broadcasting.

CHILDREN, ATTENTION! — Uncle Rus is bringing your old friend "Jerry" back again, to amuse you. Wednesday evening at 2FC hasn't been the same without him, has it? But he returns with a host of funny things to tell about, so be sure and listen-in on April 27.

MAKING a welcome reappearance on the programme of 4QG on April 27, that well-known contralto, Miss Hilda Cooper, will sing some interesting numbers. She will be heard in two songs, "Sand O' Des," by Sanderson, and "Sleepy Hollow Tune," by Kountz.

BRIDGE. — Arrangements have been made with Graham Kent, an authority on bridge, to start a series of Friday night talks, commencing May 13. It has been found that this class of talk is popular with listeners, and if the response warrants it, these talks will be continued right through the winter. 2FC successfully carried out a Bridge series last year.

**ANZAC DAY.**—Not as a day of mourning, but rather a day on which to remember with pride and thankfulness Australia's manhood, comes April 25. 2FC have arranged to broadcast the special Anzac Service from St. Stephen's Presbyterian Church in the morning, and in the afternoon, the Anzac Reunion from Sydney Town Hall, where old soldiers—"who never die"—will foreground to renew friendships made "over there." At night a transmission from the concert to be held in the Town Hall will be taken, and from the Studio Norman Janson, baritone, will sing typical numbers. Captain Fred Aaron will also give a talk in commemoration of the day.

**ANZAC DAY:** The years roll on apace, and just as the Guardians of the National Welfare are bent on keeping the spirit of Anzac Day alive in the hearts of everyone, so are those concerned at 3LO doing their bit to extend the hand, and voice, of friendship to all Diggers who chance to be listening on that day. Following the annual custom, there will be a special programme arranged, and a Digger Sketch is being specially written, introducing some of the old time Camp Fire Stories, grave and gay—and the well known time honoured choruses that made the long marches through the mud and slush of Flanders seem a bit less tragic than they really were.

**ST. GEORGE'S DAY.**—Everybody knows the famous guardian saint of England, but it is not generally known that St. George's Day falls on April 23. In commemoration of the day, 2FC have arranged a special all-English programme, through the kind offices of Madame Evelyn Grieg and Madame Vera Tsarna, who will collaborate in typical English items. Madame Grieg will also give solos on that sweet-toned instrument, so popular over the air—the dulcetto. During the afternoon, the final day of the Autumn Race Meeting, Mr. M. A. Perry, 2FC's popular racing commissioner, will describe the races in running, from Randwick.

**MISS EUGENE DUGGAN:** Miss Eugene Duggan, who has been engaged to take her original parts in a series of Dramatic performances that have been arranged to be broadcast from 3LO has had ample evidence that her fellow countrymen and women always have a warm place in their hearts for the favourite artists. Day by day letters are continually arriving at the Studio for this well known artist, from people who saw her years ago in some of the parts that she is now playing "over the air."

**MR. JAMES FORAN,** the well known Melbourne Tenor, who is contributing to a series of programmes from Studio 3LO is the fortunate possessor of a voice much above the average quality, both as regards quality and diction, to say nothing of its being specially suitable for broadcasting. Mr. Foran is too well known to Melbourne concert goers to need further introduction in these pages, and in his contributions to the programme, which will comprise early English Folk Songs, Operatic Selections, and Ballads, will be found something to the liking of every degree of musical listeners. Tune," by Kountz.

**GRACE AND KEATS:** Few young artists have had the excitable time that has befallen Grace and Keats, who, with their delightful Musical Comedy Pot Pourri, are winning Golden Opinions at 3LO. They have just recently arrived from China, where they were doing Cabaret Work and were each male member of the audience met with a loaded rifle at his side, with the business end of the bayonet well in residence. When at last they were able to get away to join their ship at Shanghai, they were forced to travel, very slowly at dead of night, lying on the floor of a motor car, covered with rugs. However, they are alive to tell the tale, and with their witty outlook on life, will doubtless turn all their experiences to humorous account when they speak over the air.

**THE SYDNEY** broadcasting stations are turning their attention particularly to winter sports. 2BL expects to keep listeners interested on Saturday afternoons by a description of part of the principal football games in Rugby Union rules, Rugby League, Australian Rules and Soccer. An announcer will be present at the important matches on each ground, and will speak into the broadcasting microphones for ten minutes at a time in turn, so that listeners will receive an actual account of each match while it is in progress. In the intervals, while, awaiting his turn to broadcast, such announcer will narrate notes on his games, and on resuming will explain to listeners what has happened in the interval.

**MISS MARIE BREMNER:** When she was studying at the Albert Street Conservatorium, Miss Marie Bremner, the delightful soprano vocalist, who is at present understudying Miss Harriet Bennett in "Rose Marie," at His Majesty's, and will shortly commence a broadcast season from 3LO, used to be known as Dame Nellie Melba's "Little Union Girl," because of her interest in Creole melodies. Since those days, Miss Bremner has gone far, and many great visiting artists, amongst whom may be mentioned such names as Backhaus, Kreisler and Percy Grainger, have all predicted a wonderful career for this young Australian artist.

## 'Twixt Life and Death

**TRAGEDY** is often intermingled with the gaiety and seriousness of the every-day round of broadcasting. Urgent Police messages may be objectionable to some people, but, fortunately most listeners are tolerant and sympathetic towards this phase of wireless, and, realising the incalculable amount of good done, are ever-ready to go out of their way to communicate the messages to those for whom they are intended.

A man lay seriously ill in a private hospital not long ago. His medical attendants declared that the case was hopeless unless an immediate blood transfusion could be made. They sought in vain for a suitable volunteer to allow the transfusion to be effected. The helpless patient was hovering 'twixt life and death, when 3LO spoke. An urgent appeal was made at 7 p.m., and within an hour no less than fourteen volunteers, including two ladies, came forward. A skilful transfusion of blood was made, which resulted in the life of the patient being saved.

Often urgent messages are broadcast for relatives and friends who

are in distant and sometimes unknown parts. Many reunions are brought about, ains, in some cases, at the death-bed. Only a few days ago an aged woman was dying, alone and, she thought, forgotten. She called for her son whom she had not seen for more than 20 years and who was supposed to be somewhere in Tasmania. 3LO sent an urgent message out on the ether. This was picked up by a little girl near Stanley in Tasmania, who knew the man so eagerly sought. She immediately had the message communicated to him, with the result that the last moments of the old lady's life were spent in contentment with her son. Strange to say, he had lost trace of his mother, she having, like himself, drifted from place to place during their long separation.

The tragedies and romances of life are brought home to many people by these urgent messages. "Truth is stranger than fiction" and some day, perhaps, a listener-in may be inspired by them to run into print with a successful true-to-life story.

# How to Solder Like a Professional

*Few Radio Enthusiasts who build their own sets know the correct method of soldering. Reception is easily impaired by unskilful wiring connections.*



**A**SK any radio service dealer just where the home constructor falls down most in his radio receiver and you will in 3 cases out of 10 be told, "soldering." This is very true. The writer during the past few years has had many sets submitted to him for overhaul and remodelling, and the crude attempts at soldering have been deplorable. Joints in busbar, which are supposed to be soldered, have only been stuck together, as often as not the flux or resin acting as the binding medium, and not the solder. This means resistance and losses as well as poor appearance.

Considering the minute electrical energy with which we have to deal in radio reception any form of undesirable loss or resistance is to be avoided. Again the average home constructor is proud of his receiver and is usually anxious to display his handiwork to his friends, so there is no reason why the set should not be "a thing of joy and beauty forever." To this end, preserve neatness throughout even to the soldering.

Soldering, after all, is not difficult—when you know how. Let us tell you how. At the outset let us consider just the tools and material required. Firstly, a soldering iron or soldering bolt is required. These commodities are common enough and may be purchased from most radio dealers or ironmongers. For receiver wiring a small iron of 2-ozs. in weight is very good, and is easy to handle and quick to heat up. Although called an iron this bolt is made of copper, and before it is of any value for soldering purposes the tip must be tinned. More about this later.

For purposes of soldering aerial joints and earth joints a much larger iron is required, but it is hardly necessary to purchase one for these

few joints, borrow one from your neighbor—and return it, of course.

Now a stick of solder is necessary and also some form of soldering fluid, flux or paste. There are some combinations of flux and solder on the market to-day which have their uses. Most readers are familiar with resin cored solder, and it is with this material that so many constructors fail. It often happens with some brands of resin cored solder that there is too much resin or sometimes not enough resin. This makes soldering awkward. Mind you, it must not be understood that all brands are alike, some are good and, properly handled, always produce good results. But a look at some joints effected with resin cored solder, indicates that too much resin is present, resulting in an ugly and bad connection.

Wunderflux is another patent soldering outfit available, and is to be recommended. It is not necessary for us to discuss the methods of using this, as the pamphlet accompanying it deals at length with this subject.

Ask any solderer tradesman for a good soldering flux and he will tell you to obtain some spirits of salts. He is quite correct, but this is not suitable for wireless purposes even when it is "killed," as it is very corrosive. The "killing" process is effected by adding small pieces of zinc which causes the raw spirits to bubble or boil, and continue to do so until the spirits will not dissolve any more zinc. Thus we have killed spirits, but don't use it under any circumstances for wireless sets. If you do you will find that the flux eats into the connections, busbar, etc., leaving a coating, light green in color. More lead-in from aereals have fallen off through the use of corrosive flux, spirits, etc., than from any other cause, and quite considerable

difficulty has been experienced through a corroded joint in busbar, causing a loss which is hard to locate.

Fluxite paste is good and is easy to use, but it must be used sparingly. It is extremely popular and a tin will last for years. Like most other fluxes this material, on account of the cleaning action on metal, makes soldering easy.

But here is a flux that the writer uses quite a lot, and it is absolutely non-corrosive, and besides is home made. Step around to the chemist's and purchase one shilling's worth of carbon tetrachloride—quite a big fearsome name, but don't be bluffed. You should get about three ounces for one shilling. Pour this into a small, clean bottle and add to it one heaped teaspoonful of crushed resin. Resin is obtainable in lumps from any ironmonger and is crushed by ralling with an empty bottle. Shake the mixture well until the resin is dissolved. Here is a good flux which doesn't spatter or fry and is just ideal for radio purposes. A long sharpened stick is handy for applying it sparingly to the joint or prespective joint, and it doesn't really matter if it is allowed to dry on the busbar, as a small deposit of resin is left, which is quite alright. So much for fluxes. Now let us wander back to the iron. When purchased it will be seen that the four tip faces are coated with solder—tinned is the correct expression. Unless the iron is tinned it will not hold the solder, so it will not pick it up. Again, the tinning which is on the iron will not last for ever, it will wear off or be burned off as time proceeds. To tin the iron is a very easy matter. Firstly, the faces must be quite clean. This may be brought about by using a file to remove the dirt or carbon which adheres to the faces. Heat the iron first before fil-

ing, and while hot apply the file to all four faces, and then dip the iron into the flux. Now apply a stick of solder to each face and, if hot enough, the solder will run over all the surfaces, leaving a nice silvered effect. Another method of tinning the iron is to clean it with a piece of block salammoniac. Rub the salammoniac on the faces and it will be seen that all the dirt cleans off, leaving a nice clean copper. Touch the iron on the solder which will run over everywhere the salammoniac has cleaned, producing the same tinning effect. Again, if after tinning clean the hot iron is rubbed on a tin lid in which there is some flux and solder the iron will be tinned in this fashion. Tinning is absolutely necessary and the iron must always be kept in this state.

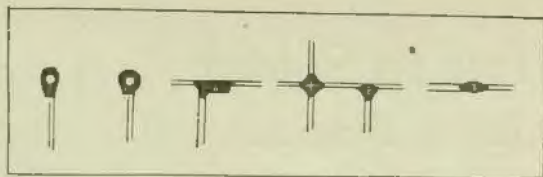
Now heating the iron is an important matter, and herein lies the secret of all soldering. Some have the iron too hot and some too cold—either introduces difficulties. If the iron is heated on a gas ring remember that the blue part of the gas flame is the hottest. Never let the iron become red hot. This destroys the tinning. A good indication of correct heat may be gathered from the green-colored flame. This flame is very pretty and is produced by the copper being heated. Almost immediately the iron is put on the gas a small green flame is visible, afterwards increasing in size and in brilliance. Looking into this flame the iron will look dull or dark. This is the heat required. Prove the heat by tipping on the solder, a ball of which should adhere to the iron. Make sure that the iron is clean before soldering by wiping the tinned faces smartly on a rag or the bench.

Now having applied the flux to the joint rest the iron with the ball of solder on the joint and the solder will be seen to run along the flux. The job must be kept steady and the iron applied, not the tip only, but one of the tinned faces, and allowed to remain long enough on the joint to permit the solder to run in. Remove the iron and allow the solder to set. This is determined when it turns dull. When sore it has set, pull a bit or flick the busbar with the fingers. To note the soundness of the joint.

When soldering busbar don't hold it with your fingers near to the prospec-



How to apply the soldering iron. Note the flux resting on the busbar.



Different joints available. Left to right scarf (2), scarf (3), cross section and straight joint (4), continuation (5).

tive joint or badly burnt fingers will result. If you do it once you will soon learn not to do it a second time. A pair of pliers is best to keep the job still, and don't disturb it before it sets properly. Practice on one or two pieces of busbar before tackling the soldering in the set. You'll soon become accomplished.

Different constructors have different favorite joints for busbar. Some like to bend the busbar for about three-eighths of an inch parallel to the wire to which it is to be connected, and solder along this three-eighths position. This is known as a scarf joint (see "W.W." page 10, on 15/4/24). This is effective. Others make a hook which is hooked over the "to be connected" busbar and fill up the hook with solder. Strong certainly and after a little practice easily worked. Some again prefer to simply lay the one piece on the edge of the other piece and solder, thus making a T joint. All are good—we won't express a preference.

A handy thing to have about when soldering is a small sheet of mica, say 3 inches square. When soldering joints in busbar place the mica underneath the two surfaces so that the busbar rests on the mica. After a while you will become so dexterous that the method of placing the mica under the busbar will render itself useful in holding the job still. Then when the iron conveying the ball of solder to the fluxed joint is applied and gently rubbed back and forth the solder will run in nicely and will leave a good joint with a nice amount of solder.

Finally after each joint is made wipe off any residue of flux which may remain. A damp rag is handy, but with resin a rag dipped in alcohol and wiped over the joint leaves a nice clean fluxless surface.

Practice, and practise again, and soon you will develop into an efficient tradesman. Besides soldering in your wireless set you will find that the lady of the house will find all sorts of odd jobs in mending pots and pans and leaks in the roof. And if the worst comes to the worst there is always a living to be had as a tinker.

## I.F.S. A POTENTIAL MARKET.

It is computed that in the Irish Free State there are 10,000 users of wireless receivers. Less than 5,000 have paid the license duty. A Bill has now been passed by both houses of the Oireachtas which gives power to search and inflict extremely heavy penalties.

2RN, operating from Dublin, is the only station in the territory at present. It transmits on a wavelength—Geneva fixed—of 319.1 metres, with a power of 1½ kw. 2RN is controlled by the State, and broadcasts concerts and news daily from 7.30 to 10.30 p.m. Sunday, from 8.20 p.m. Concerts follow somewhat the usual type of Continental and English stations. Stress is laid on "outside" broadcasts—hurley matches, bands from provincial towns, choirs of colleges.

The revenue is derived from the license fees, and also from the 33 per cent. import duty which is imposed on all radio material entering from other countries.

Within the next year or two it is expected that stations will be operating from Cork, Galway and Athlone, the latter to be a high-power station of possibly 25 kw. rating. The Cork station—which should be transmitting this month—will have a Geneva rating of 3 kw.

It seems likely that the main programme will be provided from Dublin, the capital city of the territory—where artists, and others, can be more easily obtained. The programme will then be relayed to the other stations for retransmission. Galway may prove to be an exception; a great proportion of the programme—if not all—will be in the Irish language.

There is a great potential market for British radio goods in the Irish Free State, where towns of any size are few, and there is little in the way of entertainment.

It is essential that receivers should be able to receive Daventry. This station is the most popular of all in the territory.

## For the Love of "Mike"

Continued from Page 6

don't you think? However, I recovered my scrip and resolved to turn it into a musical comedy and resubmit it to the firm.

Of course, as Captain Cook had disappeared, so Mr. Hughes had to go. My hero was a "little brother," aged 21, and in the first act, when he arrived at Cronulla, he was welcomed by the chorus and ballet of 24 girls, all dressed in bathing costumes such as are not allowed by the local authorities there. I didn't show the actual costumes that they wore, but I thoroughly gave the audience to understand that that was how the "little brother" lost his eyesight. I wrote a great song for him in this act. It went:

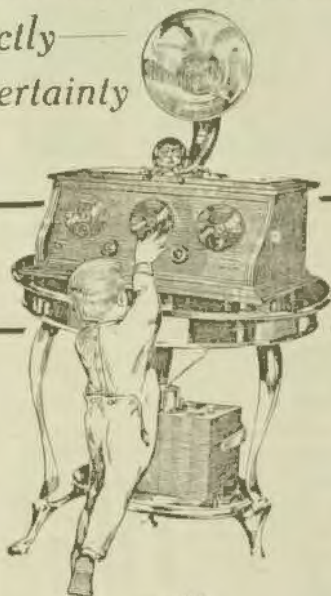
*I will holl my billy,  
Then I'll hump my billy  
Up to Murrumbidgee  
I shall greet my Milly,  
With a gladsome cooee  
Up at Murrumbidgee.*

I haven't finished that number yet. I can't find anything to rhyme with wattle, except cattle. I think I shall have to call it "wattle" and plead poetic licence. However, in the last act, the little brother marries the farmer's daughter—subdivides the estate into blocks of 40 x 140, buys The Night Patrol, and in the last act is made Governor-General of Australia, and is knighted by a Labor Government. The villain was gazetted a J.P. and made Mayor of Cronulla for the term of his natural life.

I sent the completed scrip back to J. C. Williamson and received a very nice letter in reply. They said they thought their audiences were not yet educated up to that class of piece and suggested that I should send it to the Fullers, who, they said, they hoped and prayed would put it on next Xmas in place of the pantomime. It was really a very kind thing for them to say, because the Fullers always put on an excellent pantomime at Xmas, and are always packed both afternoon and evening.

I sent the play along to the Sir Benjamin, but I had a letter from his secretary the following day saying that Sir Benjamin had the day before called for England to see if he could secure any Australian plays. He is not expected back for six months. I don't know what to do with the piece now. I am exercised in my mind whether to turn it into an oratorio and submit it to Mr. Bradley, or make an Italian opera of it for Toti Dal Monte to sing on the air. By the way, if any of our listeners know any small shopkeepers who require any small-sized paper suitable for butter wrappers, I have a quantity, which, as it is typewritten on one side only, I can dispose of cheaply. Please do your best for me.

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Perfectly—  
with certainty



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3 Pilot Kilohm Vernier Dials, 6/9 .....	1	0	3	1 2 meg. Gridleak .....	0	7	0
3 Advance .00025 Condensers, 9/6 .....	1	8	6	3 .002 Mica Fixed Condenser, 1/6 .....	0	4	6
1 De Jur 10 ohm. Rheostat (one hole fixing) .....	0	3	9	1 100,000 ohm. Resistor and Clips .....	0	4	0
1 Philmore Battery Switch .....	0	1	6	2 2-meg. Gridleaks and Clips, 3/9 .....	0	7	6
1 Philmore Double Circuit Jack .....	0	2	2	2 .006 Fixed Mica Condensers, 3/- .....	0	0	0
1 S.C.F.C. Jack .....				3 Bakelite Top Terminals, 3d. ....	0	0	9
1 Pair Benjamin Brackets .....	0	4	6	1 Battery Cord .....	0	2	8
1 Kit Radloaks Circuitoid .....	2	5	0	1 Doz. Round Buswire .....	0	0	11
5 Benjamin Sockets, 5/- .....	1	5	0	Terminal Board .....	0	2	9
				<b>Total</b> .....	<b>£9</b>	<b>14</b>	<b>2</b>

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**We Guarantee to Refund Cash if You are Not Satisfied**

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Now solder Jacks: Take up very little space, double circuit .....	0	4	0	Round Buswire: In straight 2ft. lengths; per doz. ....	0	9	11
Voltmeters: For measuring H. Batteries, 0 to 50 Volts .....	0	4	3	Celastite Wire: Spaghetti covered flex, in 25ft. cartons, per carton .....	0	5	0
Photograph Adaptors: Double Arms, for your headphones .....	0	3	6	Rein Core Solder: High grade, per yard .....	0	0	8
Ear cushions: For Headphone Comfort, Completely covers the ears .....	0	2	10	Kester Radio Solder: Per tin of 5 yards, Wunderflux: The new soldering .....	0	1	6
Advance S.F.F. Condensers: .00035, 10/-, .0005 .....	0	10	6	Burgess B. Batteries: The best heavy duty, 45 Volt Battery .....	1	8	0
Advance Rear Panel Dials: The most modern Dial .....	0	7	0	Volton B. Batteries: Another high-grade, HD Battery, 45 Volts .....	1	2	6
Advance Porcelain UX Valve Sockets: Low losses .....	0	2	6	Voltmeters for A., B. or C. Batteries: A Dependable Instrument .....	0	12	6

"Yours For Lower Prices"

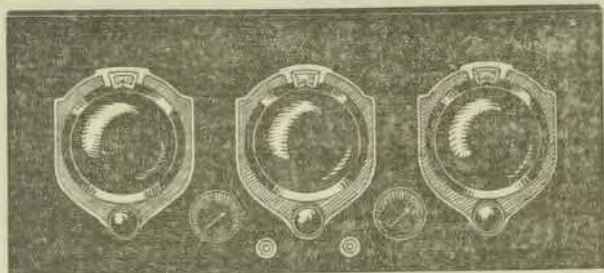
**COUNTRY CLIENTS? We Pay  
Carriage on Orders of 10/- and over, except  
on Batteries, Loud Speakers, Cab-  
inets, and Value Payable Post  
Parcel.**

## THE ECONOMIC RADIO STORES

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## A De Luxe 5 Valve Receiver

*A drawing room receiver which embodies the features of the DX set*

**T**HERE is an ever-constant demand for five-valve receivers.

This is understood, when it is realised that the average five-valver comprised two stages of radio frequency, detector and two stages of audio frequency. As has been mentioned in these pages before, radio frequency amplification is designed to bring in distant stations, and situated geographically as the broadcasting stations of this country, are the reason for the popularity of radio frequency is evident.

The average listener seeks the interstate station. There are those who are so situated that radio frequency is not required for this purpose, a straight out detector valve followed by two stages of audio frequency sufficing. But the city dweller is seldom as fortunate. Complex problems arise which make radio frequency in some form or other most desirable. But, of course, to be successful the radio frequency employed must be of the selective type.

Until a year ago a much used system of radio frequency was the tuned anode method. This system is seldom used nowadays on account of the broad tuning which resulted—broad or flat tuning being the enemy of selectivity, which is of such importance to the listener who is situated close to a broadcasting station.

The great difficulty with radio frequency is the stabilisation. To be useful it must be capable of easy handling and control. It must be kept within bounds. Usually the coils used are spaced far apart from one another to avoid interaction. This interaction is brought about by the magnetic energy of one coil interfering with the action of another coil. There have been many schemes propounded to overcome this.

Let us take the neutrodyne, a receiver known to most. The coils or neutroformers are mounted on an angle to eliminate the interfering effect. This is usually effective, but nevertheless the coils are invariably spaced at least 5 inches from one another. Another method is the use of binocular coils, coils wound on two tubes right alongside each other, the name binocular implying the shape. These also are successful.

Then there is the Circloid, Toroid or Doughnut coil which confines the magnetic field to very small limits. This is produced by the method of winding and shaping the coil. It resembles a doughnut, hence the name. This is the type of coil that has been used in the receiver which is described in this article.

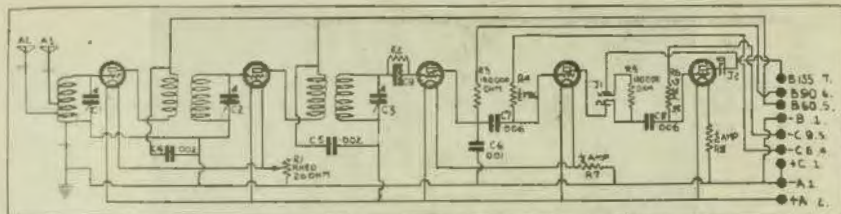
All the coils specified are actually radio frequency transformers. Do you remember the symbol for radio frequency transformers in the article in "W.W." 8/4/22? Circloids are sold in kits of three, one aerial coil and two radio frequency coils. If we examine one of the R.T. coils we find that here is a primary and a secondary. The primary is fitted inside the secondary at the filament end. Altogether a most efficient arrangement.

Now there is no necessity to neutralise this receiver. Neutralising may be carried out if desired, but is really not required. After all, most American receivers sold in cities are of the two stages of tuned radio frequency, detector, and two stages of audio frequency and very few are neutralised. There is always a tendency for self oscillation in radio frequency amplifiers, but as explained before the construction of the doughnut coil lessens this considerably. These coils may be placed right next to one another without any fear of

interaction or self oscillation, but we have in our receiver spaced them equally apart mainly from the point of view of appearance.

The circuit diagram shows the circuit employed. It will be seen that instead of transformer coupled audio frequency amplification, resort has been made to resistance coupled amplification. This may be new to most people, but the outstanding feature of a properly built resistance coupled amplifier is the quality of reception. It is famed for purity. But it must not be expected that an equally high volume is obtainable with two resistance coupled stages, as with two transformer coupled stages. The ratio is approximately three to two, that is, it takes three stages of resistance coupling to produce the volume of two stages of transformer coupling. Still it is realised that many prefer only one stage of audio, others two, of course, so as a compromise we have employed special valves, which will make up the deficiency in volume, yet retain the purity. Extra B battery is required to give the necessary punch, but this will be found quite economical in use.

Another new feature lies in the method of connecting the batteries to the receiver. Instead of the usual terminals a multi-plug and socket of the Yaxley brand is used, thus making battery connection simple in the extreme. All the battery connections in the set are brought to a multi-plug, that is a plug with many pins; one pin for each battery connection. A socket to fit these pins plugs into position and connected to each individual socket there is a cord for connecting to the batteries direct. Each cord has a different colour, therefore, there is no possibility of error in battery connections creeping in. This is a much needed improvement.



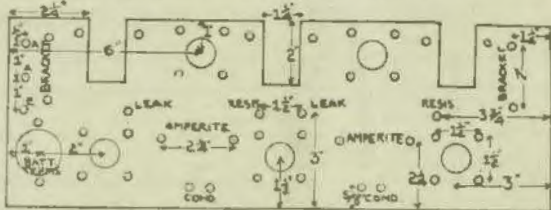
The circuit. The amperite filament control is obvious. Numbers of terminals correspond with the panel wiring diagram.

The parts required for this receiver are itemised here—

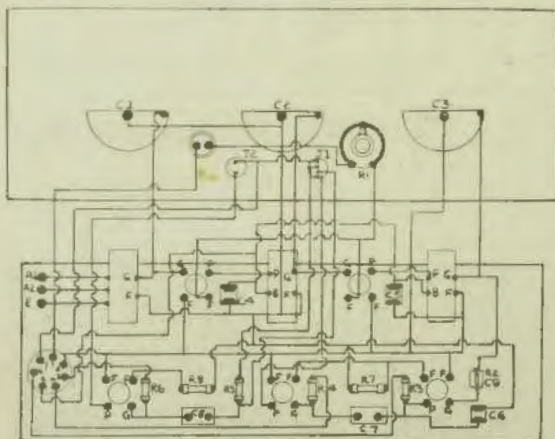
- 1 Dilecto or Radlon Panel, 18 x 8 x 3-16.
- 1 Dilecto or Radlon Sub-Panel, 17 x 6 x 3-16.
- 1 King Kasch Vernier Dial.
- 3 .00025 Pilot S.L.F. Condensers.
- 1 60hm. Rheostat.
- 1 Mayo Battery Switch.
- 1 Emmo D.C. Jack.
- 1 Emmo S.C. Jack.
- 1 Pair Benjamin Sub-panel Brackets.
- 1 Kit Radioloket Circloids.
- 5 Benjamin Sub-panel Sockets.
- 2 Amperites to suit valves.
- 1 .00025 Aerovox Grid Condenser and Clips.
- 1 2 meg. Grid Leaks.
- 2 .002 Aerovox Fixed Condensers.
- 2 100,000 Bradley Resistors and Clips.
- 2 5 meg. Hercules Grid Leaks and Clips.

- 3 .008 or .01 mfd. Aerovox Fixed Condensers.
  - 1 Bakelite Top Terminals.
  - 1 Yaxley Battery Cord, Plug and Socket.
  - Belden Fort Wire for wiring.
  - Sundry screws, etc.
- The brands are given, so that the

constructor, if he desires, may make a duplicate of this set exactly, but other materials may be quite as satisfactory provided it is of the right quality. Still do not depart from the valves given. As may be seen, this receiver is built on the sub-panel method. Instead of on a



SUB-PANEL 17 X 6"  
The sub-panel drilling template.

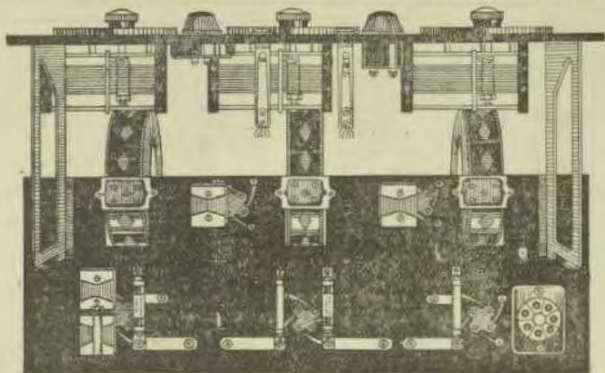


Back of panel wiring diagram. Note the battery connections to the Yaxley socket. All this wiring is subpanelled.

wooden baseboard, the parts are mounted on a sub-panel of Dilecto or Radlon, and all the wiring is concealed beneath. The front panel has mounted thereon three variable condensers, the 6 ohms. rheostat and the battery switch, together with the jacks. On the top of the sub-panel are the valve sockets, amperites and fixed condensers in little tin cases, and the Yaxley socket for the batteries. Also on top will be found the two serial terminals and the earth terminal. Protruding through the sub-panel are the Circloids, while underneath are located the resistances, grid condenser and fixed condensers, and the wiring. Altogether a neat arrangement, which is extremely efficient.

**Construction.**

The first operation called for is the marking out and drilling both panels. The front panel is very simple, being just the usual. Mark out in agreement with the diagram, and drill carefully. Notice the two screws for each of the Benjamin brackets. These holes have to be countersunk. Then attend to the sub-panel. This is a little more difficult and calls for some ingenuity.



The disposition of the parts on the sub-panel. The relation of the Circloids to the condensers are clearly shown.

With each Benjamin sub-panel socket comes a template which shows that a 1-inch circular hole is required for each. There being five sockets in this receiver, five holes are required. These may be cut with an extension bit or if this is not available here is a method of doing it. With a compass describe a circle one inch in diameter and around the inside edge of this circle drill several small holes as close together as is possible. Now with a coping or fret-saw, cut out the small interpieces and finish off with a half round file. The Yaxley socket also requires a hole  $1\frac{1}{2}$  inches in diameter, and is cut out in the same manner. If this job is beyond the home constructor he is catered for by Mr. Clifton Storm, of 51 Castlereagh St., who will also engrave the panel at a moderate cost.

Three slots, 14 inches in diameter and 2 inches long, must be cut to accommodate the Circloids. The positions for these are marked on the diagram. Having cut the required holes, mark out the panel for the screws for holding the valve sockets, amperite clips and resistors. All these positions are marked on the diagram so this should be really simple. Now assemble the sub-panel components and attach to the main panel by means of the Benjamin brackets.

The receiver is now ready for wiring. As has been previously mentioned the wiring is carried out underneath the sub-panel. For this purpose bare busbar is not recommended, hence the recommendation of Fort wire, which is of the insulated variety and nice and easy to handle.

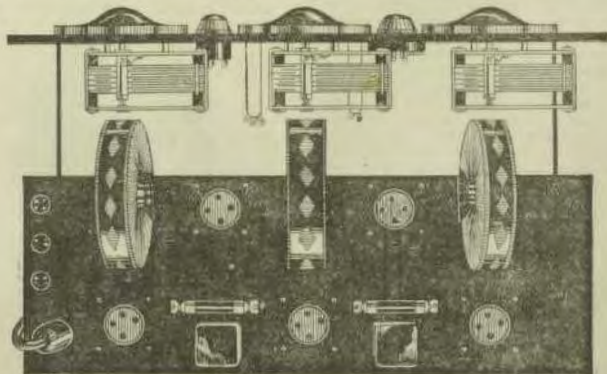
Looking at the sub-panel view the positions of the various parts are seen. Metal strips are used to link the coupling condensers (0.006 or 51 mfd.) to the resistors and leads.

These may not be on hand, so resort to busbar for connections here, or — of course, the Belden Foer is O.K. Notice, too, the arrangement of the resistors of the two audio and the valve sockets. The same screw which is used to hold the grid of the last audio valve and also to act as the grid connection has clamped under it one of the clips for the 1-meg. leak. The same applies to the grid screw of the first valve socket for the other 1-meg. leak, while the plate screw of the same valve grids one end of one of the 100,000 ohm. resistors. The plate screw of the detector valve incorporates one end of the second 100,000 ohms. clip, while the grid screw holds one end of the 0.0025 grid condenser. The other sides of these clips require a special hole in the sub-panel which holes are shown. Now commence the wiring proper.

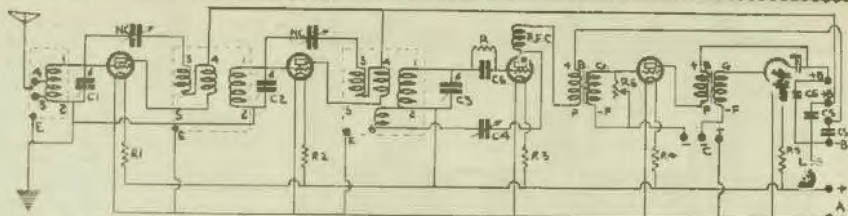
Start by linking up filament wires. The receiver should be, turned upside down during wiring, and each separate wire carefully installed. Take it in easy stages, checking off as you proceed. Keep the wiring nicely spaced, following out either the circuit diagram or the back of panel wiring diagram. Add the battery wires last of all. Now a word regarding the battery wires. The Yaxley socket has seven individual connecting pins, each with a different colour, and one guide pin to which no connection is taken. Make the alterations as follows: In the same division as the Ax (red) mark B — and in the A — (black) mark Cx. The B — (yellow) alter to Bx RF (for radio frequency valves). The Bx Detector (blue) and the Bx amplifier (grey) allow to remain as they are. Mark the green space C — 43 volts, and the light brown C — PR, that is, proportional to the valve of B battery employed on the last stage of audio. These colours given coincide with the colours of the cords and the connections should be made accordingly. When finished with the wiring check over carefully the connect up the receiver for test.

We recommend two 201a Radiotron valves for the R.F. portion, and also for the detector. But for the last stage a UX112 Radiotron is best with an Osram B75b for the first stage of audio. Two DE5 valves are ideal for resistance coupling, and have a very high amplification factor. It is known as a high mu. valve, mu meaning amplification factor. A 6 volt accumulator is required for an A. battery, and 90 to 95 volts for the plates of the R.F. valves. From 225 to 45 volts will be good for the B. supply of the detector valve and 135 volts for the audio stages. The C. battery for the last audio stage

Continued to Page 19



This receiver looking from the top. The RF valves are shown between the Circloids. Amperites are on top of sub-panel.



The circuit of the Solodyne receiver which Major C. Paddon took on his voyage. C1, C2, and C3 is a triple condenser; 2000 capacity; C2 is 0.00025 reaction condenser; C5 are blocking condensers; C4 0.00025 grid condenser; R1 is a 250 ohm grid leak; R2, R3, R4, and R5 are filament ballasts; R6 is the volume control; L is a flash lamp; the screened coils are shown in dotted lines.

## Around the World with a Solodyne

**B**ELOW are a few extracts from a copious log kept by Major C. Paddon during a voyage around the world on the T.S.S. "Anglo Columbian," which recently arrived in Sydney. The receiver on which the stations mentioned were logged is the "Elastic Solodyne," equipped with S.T. (Scott, Taggart) valves and supplied by Messrs. Peto-Scott Co. Ltd., London.

The remarkable qualities of the Elastic Solodyne as revealed by Major Paddon's tests will be doubly interesting to "Wireless Weekly" readers as this circuit will be fully described, with additional information concerning construction and operation, by the Technical Editor in an early issue.

The Elastic Solodyne is a five valve receiver employing two stages of radio frequency, detector and two stages of audio frequency; it has one control only, and screened coils are used.

The "Anglo Columbian" left Tyndale on November 6th, 1923, bound for Galveston, Texas, U.S.A., where it picked up a cargo of sulphur, and sailed from there through the Panama Canal to Auckland, Port Lyttelton, and Port Chalmers, and thence to Sydney. The Solodyne is situated in the bathroom—not a nice place for ideal radio reception at any time—and the aerial used is one erected apart from that used by the ship's operator. It is by no means what might be termed an ideal aerial. In fact, right throughout the whole installation, all the rules laid down by radio engineers are broken.

The workmanship displayed by Messrs. Peto-Scott and Co. Ltd., in the "Solodyne" is excellent. The layout is neat and pleasing to the eye, and when one reads through this most interesting log, one stands amazed at the multitude of stations which it has collected. On going through the log it is learned that a certain amount of

trouble was met with in the high tension battery, and it was not until November 19th, 1926, that it was got into working order. On this date the Major's diary reads as follows:—

"November 19th (Friday): 31.41 N, 54.26 W. Wind soaring from S.W. to N.E. at 3 p.m. without warning, barometer dropped to 29.55, sky very bad, cyclonic clouds and colors all round, lightning continues to S.E., heavy rain falls at intervals, outlook dirty, cleared up completely by 10 p.m., G.M.T. Started sat and got WOK (Homesend), WDCY (Minneapolis), WDAO (Moraud), WHJ (Cleveland), WORD (Batavia), WCWS (Providence), WTAQ (Worcester), WRBG (Earrisburg), WFCE (Pawtucket), WBZ (Springfield), WGY (Schenectady), WOI (San Antonio), WGR (Newark), WFRI (Collegeville), and WJZ (New York)."

Although atmospherics were still bad this following day five new American stations were logged, including KDKA, and on November 22nd, another 67.



Major C. Paddon.

approached, these stations accumulated at the rate of fifteen to twenty a night. A very interesting note is appended alongside the date of November 24, while the ship was passing the Florida Coast, "Note that atmospheric decrease as moon rises."

On November 25, while the ship was within 650 miles of Galveston, atmospherics were so bad that it was absolutely impossible to hear even KDKA. On the 27th the ship arrived at Galveston, where thirty-two new stations were heard.

Up to the present, although the receiver is designed for 120 volts on the plates of the valves it had been working with only 84. At Galveston, this was rectified, and on November 30, off went the "Anglo Columbian," again on its way to New Zealand.

On December 1, seventeen new stations were listened to on the loud speaker, this being the best day until December 11 was reached, with twelve new stations. The audibility meter readings up to the present had varied between 5 and 8. On December 17, WJY (New York) was the furthest station recorded, KDKA getting fainter as time passed. A new station KFDJ (Venice, California) was received very satisfactorily.

It was not until December 29, in 26.23 S, 156.13 W., that the first Australasian station was heard, this being IYA (Auckland), and a note against it reads to the effect, "fading badly." At the same time as this was being received KFWI (San Francisco) was heard. This station is still being received on the "Solodyne," and on January 5, when the ship reached Auckland, Major Paddon met Mr. J. M. Prentice, who is well-known to Australian listeners, as the genial Uncle Jack, late of 2BL.

2BL (Sydney) was picked up first of all on January 4, 300 miles from Auckland. Coming across from Auckland to Sydney all the Australian stations were picked up, very easily,

one after the other, and even up to January, 35 U.S.A. stations could still be heard. Considering that the "Anglo Columbian" sailed into Sydney on Anniversary Day (that is, January 26), this is really a most wonderful performance, and speaks very highly of the set in use.

The "Elastro Solodyne" certainly is one of England's best, and has been mentioned before in these pages. If England continues to produce receivers of this type, very shortly she will lead the world. Up to 7,200 miles has been covered in distance with the "Solodyne," and every credit is due to the designer of the set that is capable of such wonderful results.

Right through the Major's log there are little personal notes, such as paying for his tobacco (no, he's not a Scot), and the temperature of the bathroom in which the "Solodyne" was housed. One little note reads that while in Auckland (New Zealand), a loud speaker demonstration of KFBD (Venice, California) was made to many interested listeners.

Atmospherics were really bad for only five nights out of the whole journey, and many observations contained in the log went into this subject were of interest. This is a very interesting log to read right throughout, and considering that we have been working on this "Solodyne" with a view to publication in "WIRELESS WEEKLY" at a very early date, it is of double interest to us, and will also be to the many readers of "WIRELESS WEEKLY" who contemplate building this marvellous receiver.

The "Anglo Columbian" is going back to London via Cape Horn, and it will be very interesting to have the complete log for publication. Meantime, we know that readers of "WIRELESS WEEKLY" will join us in wishing Major Paddon "bon voyage."

## A De Luxe 5 Valve Receiver

Continued from Page 17

is varied and up to 225 volts may be required. Certainly this is a lot of battery, but it is worth it.

Plug in the speaker and tune in. The three dials should read the same, so remember when tuning. The local stations are soon arrived at, there is no mistaking them, and the interstate will soon be found. An alternative aerial tapping is provided with a terminal, so if any interference is experienced between 2BL and 3LO try the alternative aerial terminal. Brisbane, Adelaide and Auckland should be heard. Tune for them.

At Murrumbidgee on test all these stations were logged easily on the speaker. There was no interference between 1YA Auckland and 2PC Sydney, quite good too, and proves the selectivity of the receiver. It is a splendid set, an aristocrat in fact, and is recommended.

# What is Loud Speaker Strength?

By H. ELLO.

ONE frequently hears wireless technical terms bandied about very loosely. Some of these terms are difficult of positive definition or explanation, and others permit of variable definitions. One of the expressions very frequently used and very little understood is "loud speaker strength."

What is loud speaker strength in N.S.W. from a station like 3LO? The answer to this question would vary very considerably according to the psychological and physiological condition of the person providing the answer. The type of loud speaker to which the listener is accustomed would also tend to influence his reply to the question.

### Comparison with Gramophone Necessary.

Some authorities define "loud speaker strength" as "equal to the volume emitted from a good gramophone." This definition, of course, is loose because the volume given by a good gramophone will vary according to the type of needle used and to other controlling influences in the gramophone. Possibly, a better comparison would be the "volume of sound emitted by a good gramophone when the needle scratch of the gramophone is completely smothered by the volume of musical sound." In point of fact this comparison has been used by Dr. Goldsmith, the American authority, in defining what he calls the "service area" of a broadcasting station. He states that the volume received by an ordinary receiver from the broadcasting station in the service area should smother the static and other interfering noises to the same extent that the music from a good gramophone will smother the needle scratch noise.

The most important factor, of course, in deciding the matter is the human ear. In pitch a good youthful ear can hear very much better than the ear of an adult. The youthful ear can hear tones as low as 16 vibrations per second to as high as 30,000 per second. The range of intensity is likewise enormous. If we regard the strength of the weakest sound we can hear as one, then the strength of the ordinary talking voice would be about 1,000,000.

### Our Ears are Deceptive.

It is quite easy for our ears to deceive us in estimating the relative strength of sounds. For instance, if one asks a number of people to compare the strength of two radio sets, it will

not be surprising to hear very different opinions. The explanation lies, of course, in the fact that they do not understand the peculiarities of the ear. In other words, our ears are very poor at gauging the intensity of sound. If our ears were sensitive to changes in intensity they would either be insensitive to weak sounds, or moderately loud noises would become unbearable.

As an illustration of the difficulty in estimating the intensity of sound, it is related that during the war an American officer conducted an interesting test on 88 Bluejackets. He asked them to listen to two telegraph signals and say which was the louder. One signal was adjusted to have twice the power of the other, and a switch was provided to permit of instantaneous switching from one signal to the other. Each man put on head phones and listened once to one signal, and then immediately to the other. After that, he wrote down his choice. Some of the men said the signals had equal strength and some even said the weaker signal was the stronger. Out of the 88 not only 43 determined the matter correctly.

MADAME LAMBERT. One of the most recent of our distinguished visiting musical artists, Madame Lambert, has been engaged to broadcast from Studio 5LO in a series of vocal recitals. Madame Lambert is widely known on the Continent as an operatic soprano, and has sung in practically all the recognised musical centres of Europe, coming to us, at the height of her musical career to join her husband and son, the Messieurs Edouard and Raymond Lambert. Mons. Edouard Lambert has already won golden opinions of the Australian press and public as a violinist of exceptional merit, and his son Raymond, although still on the sunny side of twenty, has already proved himself a distinguished pianist. During her season at 5LO, Madame Lambert will have the support of her husband and son, and some programmes of high artistic merit may be expected.

IN ISSUING A TARIFF of radio advertisements, the National Broadcasting Company of America announces, that no applications for advertising time will be considered unless the applicant agrees to continue his usual amount of advertising in the Press and on the hoardings.

# Real Radio Enjoyment

Use an EVER-READY B. BATTERY on your set and have Real Radio Enjoyment. The Ever-Ready Radio B. Batteries are manufactured in Australia from the finest materials obtainable. Owing to the exceptional demand, we have new and fresh stocks arriving from the factory almost daily, and all Batteries are tested on a special testing instrument before despatch.

## For 1 and 2 Valve Sets.

WP30—30v. ....	9 6
WP40—40v. ....	12 6
WP60—60v. ....	18 -



## For 3, 4 or 5 Valve Sets.

XP30—30v. ....	16/-
XP40—40v. ....	21/-
XP60—60v. ....	31/6

Illustration of W.P. 60 B. Battery.

ADD an EVER-READY No. 126 "C." or Bias Battery to your Set. In addition to increasing life of your B. Battery, it will make a wonderful improvement to the purity of Reception ..... 2 9 each  
 "Ever-Ready" Standard "A." Battery—4½ Volt ..... 9/-

### METERS. For Testing "A." and "B." Batteries.

0-50 Volts .....	4 9
0-50 Volts—0-50 Amps .....	7 6
0-10 Volts—0-35 Amps .....	4 9
0-10 Volts—0-150 Volts .....	10 6
Packet-type Hy-Dro-Meters—for testing 6 Volt Accumulator	7 6

## Wiles Wonderful Wireless and Electrical Stores

Pitt and Goulburn Streets :: SYDNEY

BRANCH: 384 Pitt St., Nr. Goulburn St.

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MAIL ORDER DEPARTMENT—60 GOULBURN STREET.

# BROADCASTING PROGRAMMES

for the COMING WEEK

## Friday, April 22

### 2FC, SYDNEY

Farmer's Broadcasting Service.

Wave Length, 442 Metres.

#### MIDDAY SESSION.

- 12 noon.—"Big Ben" and programme announcements.
- 12.5 p.m.—Stock Exchange—first call.
- 12.8 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
- 12.15 p.m.—Studio music.
- 12.25 p.m.—Summary of "Sydney Morning Herald" news service and cables. Rugby news.
- 12.45 p.m.—Studio music, a pianoforte reproduction of the "Fighting" Player Piano.
- 12.48 p.m.—Some popular records.
- 12.55 p.m.—Miss Genevieve Engel, soprano: "Wake up" (Phillips).
- 1 p.m.—"Big Ben." Weather intelligence.
- 1.3 p.m.—"Evening News" midday news service. Producers Distributing Society's report.
- 1.20 p.m.—Studio music.
- 1.30 p.m.—Miss Nancie McGilchrist, Violin Solo.
- 1.40 p.m.—Miss Genevieve Engel, soprano: "The Call of the Maxime" (Drabes).
- 1.45 p.m.—Popular records.
- 1.55 p.m.—Miss Nancie McGilchrist, Violin Solo.
- 2 p.m.—"Big Ben." Close down.

#### AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and programme announcements.
- 3.5 p.m.—Miss Nancie McGilchrist, Violin Solo.
- 4.13 p.m.—Miss Gladys Aubin, Soprano: "Come to the Fair" (Maxine).
- 4.17 p.m.—Studio music.
- 4.25 p.m.—Miss Nancie McGilchrist, Violin Solo.
- 4.30 p.m.—Studio music.
- 4.40 p.m.—FROM FARMER'S TEA ROOMS—Miss Eileen Moran, Soprano: "The Hiding of Enoch" (Phillips).
- 4.45 p.m.—A Talk on Home Cooking and Recipes by Miss RUTH FURST.
- 4.50 p.m.—"Big Ben." FROM FARMER'S TEA ROOMS—Miss Ethel Muller, contralto: "A Dream" (Harpertz).
- 4.55 p.m.—Studio Music. Miss Gladys Aubin, Soprano: DieFleder A-blesing" (German).
- 4.58 p.m.—A Short Talk on Music by Mr. Edward Chappin.
- 4.59 p.m.—FROM FARMER'S TEA ROOMS—Miss Eileen Moran, Soprano: "If I Might Come to You" (Rusler).
- 4.55 p.m.—A Talk arranged by the Country Women's Association.
- 4.40 p.m.—FROM FARMER'S TEA ROOMS—Miss Ethel Muller, contralto: "Sylvia" (Donald).
- 4.45 p.m.—Stock Exchange (third call).
- 4.48 p.m.—Studio music until 5 p.m.
- 5 p.m.—"Big Ben." Close down.

#### EARLY EVENING SESSION.

- 5.45 p.m.—"The Chimes of St. Paul."
- 5.50 p.m.—"The Hello Man" Talks to the Children.
- 6.30 p.m.—A Serial story for the older ones.
- 4.40 p.m.—Dinner music.
- 7 p.m.—"Big Ben." Late Sporting Information by the 2FC Racing Commissioner.
- 7.10 p.m.—Daily's Market Reports (Wool, Wheat and Stock).
- 7.15 p.m.—Fruit and Vegetable Markets.
- 7.20 p.m.—Weather and Shipping Intelligence. Stock Exchange.
- 7.25 p.m.—Late "Evening News" news service.

#### NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
- 7.45 p.m.—Musical Items from the Studio.
- 8 p.m.—"Big Ben." FROM THE CRYSTAL PALACE THEATRE—GEORGE STRAET, SYDNEY. Items by the Orchestra, under the baton of Mr. HARRY STONE.
- 8.10 p.m.—FROM THE STUDIO—Miss Eileen Boyd, contralto: "Hullab." ("Three Fishes" (Hullab).
- 8.14 p.m.—A Talk on the Gilbert and Sullivan Season, by Miss Vivia de Lottie.
- 8.25 p.m.—FROM THE CRYSTAL PALACE THEATRE: Orchestral items.
- 8.40 p.m.—FROM THE STUDIO: Mr. Ad Cree, Scotch Comedian.
- 8.44 p.m.—Mr. Charles Alfred "Tousie Harold" Stradella (Fletow).
- 8.49 p.m.—"Art in the Home." A Talk by Mr. Eric Lancher.
- 9 p.m.—"Big Ben." Miss Eileen Boyd, contralto: (a) "Ellen Alannah" (Thomas). (b) "Eileen Flanagan were Ragging" (from "The Travellers" (Verdi).
- 9.5 p.m.—Mr. Charles Lawrence, Entertainer: "If I didn't know your husband" (Barr).
- 9.11 p.m.—Mr. Eugene Ostapoff, Russian baritone.
- 9.18 p.m.—The Honolulu Trio (Steel Guitar, Spanish Guitar and Double).

- 9.20 p.m.—Miss Eileen Boyd, contralto: "Far Across the Desert Sands" (Fadden).
- 9.24 p.m.—Mr. Ad Cree, Scotch Comedian.
- 9.32 p.m.—Mr. Eugene Ostapoff, Russian baritone.
- 9.38 p.m.—Mr. Charles Lawrence, Entertainer: "When the roads up" (Dellor).
- 9.44 p.m.—Mr. Charles Alfred (Tousie Harold) Stradella ("Cavalieri Rusticano" (Mascagni).
- 9.50 p.m.—Mr. Ad Cree, Scotch Comedian.
- 9.54 p.m.—The Honolulu Trio (Steel Guitar, Spanish Guitar and Double).
- 10 p.m.—"Big Ben." Mr. Eugene Ostapoff, Russian baritone.
- 10.8 p.m.—Mr. Charles Lawrence, Entertainer: "Pardon me, Mad" (Grip).
- 10.12 p.m.—FROM THE CRYSTAL PALACE, GEORGE STRAET, SYDNEY: Orchestral items.
- 10.25 p.m.—FROM THE STUDIO: "The Honolulu Trio."
- 10.30 p.m.—Late news and announcements.
- 10.38 p.m.—FROM THE WENTWORTH CAPE, CHELSEA HILL, SYDNEY: The Wentworth Symphony Dance Orchestra in popular numbers. Conductor, Mr. Frederick Leighton.
- 10.42 p.m.—FROM THE STUDIO: Celebrity records.
- 10.48 p.m.—The Wentworth Symphony Dance Orchestra in popular numbers. Conductor, Mr. Frederick Leighton.
- 11 p.m.—"Big Ben." National Anthem. Close down.

## 2EL, SYDNEY

Broadcaster's Ltd.

Wave Length, 358 Metres.

#### Friday.

- 7.2 noon. G.P.O. Clock and Chimes.
- 7.31 p.m.—Racial music (sponsored by courtesy of Mr. Mann).
- 7.52 p.m.—Weather report and forecast.
- 7.58 p.m.—News from the "Sun" and racing results.
- 10.12 p.m.—Musical programme from the Studio.
- 10.16 p.m.—Stock Exchange calls.
- 10.22 p.m.—Rabbit market report.
- 10.23 p.m.—Fish market report.
- 10.24 p.m.—Vegetable market report.
- 10.26 p.m.—Beef market report.
- 10.28 p.m.—Dairy produce market report.
- 10.30 p.m.—G.P.O. Clock and Chimes.
- 10.31 p.m.—Farm produce market report.
- 10.34 p.m.—Musical programme from the Studio.
- 10.40 p.m.—News from the "Sun"
- 10.45 p.m.—"Hilary's Instrumental Quartet. Direction, Cecil Gauding.
- 1.30 p.m.—G.P.O. Clock and Chimes.
- 1.31 p.m.—Shipping arrivals and departures and movements of important shipping.
- 1.35 p.m.—News from the "Sun."
- 1.40 p.m.—Musical programme from the Studio.
- 1.58 p.m.—Stock Exchange calls.
- 2 p.m. G.P.O. Clock and Chimes. Racing Information broadcast by courtesy of the "Sun" immediately after each race.
- 2.1 p.m.—News from the "Sun."

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

- 2FC.—Farmer's Broadcasting Station, Ltd. Sydney, wavelength 442 metres, power 5000 watts.
- 2BL.—Broadcasters' Ltd. Sydney, wavelength 353 metres, power 5000 watts.
- 2GB.—Theosophical Broadcasting Station, Ltd., Sydney, wavelength 318 metres, power 300 watts.
- 2KY.—Trades and Labor Council, Sydney, wavelength 280 metres, power 1500 watts.
- 2UW.—Otto Sandel, Sydney, wavelength 285 metres, power 500 watts.
- 2UX.—Otto Sandel, Wazza, wavelength 300 metres, power 100 watts.
- 2MK.—Moeckler Bros., Bathurst, wavelength 275 metres, power 300 watts.
- 2VE.—Electrical Supplies Co., Sydney, wavelength 260 metres, power 250 watts.
- 2BE.—Burgin Electric Co., Sydney, wavelength 315 metres, 100 watts.
- 2HD.—H. A. Douglas, Newcastle, wavelength 265 metres, 100 watts.

## 2GB, SYDNEY

Theosophical Broadcasting Service.

Wave Length, 316 Metres.

Friday,

## MORNING SESSION.

- 8 a.m.—Music.  
8.15 a.m.—"Devotion Talk by Mr. J. K. Powell.  
8.45 a.m.—Music.  
9.25 a.m.—Paraphrased Class.  
9.45 a.m.—Health Talk and Diet.  
10 a.m.—Close down.

## AFTERNOON SESSION.

- 2.30 p.m.—Music.  
2.45 p.m.—Talk.  
3.45 p.m.—Music.  
4.15 p.m.—Talk.  
4.45 p.m.—Music.  
4.50 p.m.—Close down.

## EVENING SESSION.

- 6.30 p.m.—Children's Session conducted by Miss Inna Barnes.  
7 p.m.—Music.  
7.30 p.m.—Talk by Miss Inna Barnes.  
7.45 p.m.—Music.  
7.50 p.m.—Topical Talk by Dr. Roy, G. & Airfield.  
7.55 p.m.—Talk by Mr. J. H. Powell.  
7.58 p.m.—Announcement.  
7.59 p.m.—Violin Solo by Dan Souly.  
8.0 p.m.—Address, Dr. Roy, G. & Airfield.  
8.05 p.m.—Songs by Mr. Seltzer.  
8.07 p.m.—A Hallibus with the 20th String Quartette, Lloyd Davis, Monica Herder, Muriel Lang, Ada Bronk.  
8.08 p.m.—Vocal Melody by Mr. Walter Hunt.  
8.10 p.m.—Duet for two voices with piano accompaniment: Dan Souly, Monica Herder, Ada Bronk.  
8.25 p.m.—Songs by Mr. Seltzer.  
8.28 p.m.—Piano Solo by Ada Bronk.  
8.40 p.m.—Duet for two voices with piano accompaniment, Dan Souly, Monica Herder, Ada Bronk.  
8.45 p.m.—Chorus Talk.  
10 p.m.—Close down.

## 3LO MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

Friday

## MIDDAY SESSION.

- Announcer ..... MAURICE DUDLEY  
Accountant ..... AGNES FORTUNE  
12 noon—Description of British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; "Agnis" and "Herald" News Services.  
12.20 p.m.—WIN AND WINDLE.  
"The Silent Wife."  
12.25 p.m.—STUDIO ORCHESTRA.  
"Carols"—Suite of Five Episodes" (Montague Kier).  
12.40 p.m.—Stock Exchange Information.  
12.50 p.m.—RUSSELL CALLOW Tenor.  
"E Laureum in Salt" (Pavane).  
"Pale Moon" (Locus).  
12.57 p.m.—STUDIO ORCHESTRA.  
"The Merry Ladies" (Band).  
1.1 p.m.—JESSIE SMITH, Contralto.  
"A Fat Little Fellow."  
"Friend of Lady's Lullaby" (Etonian).  
1.14 p.m.—Metropolitan Information.  
1.20 p.m.—Studio Orchestra.  
"Miss Hook of Holland" (Rubens).  
1.30 p.m.—RUSSELL CALLOW, Tenor.  
"A Birthday Song" (MacFadyen).  
"Only The River Running By" (Hookins).  
1.37 p.m.—WALTER SMITH, Cornet.  
"The Harp Newsroom" (Rouss).  
1.44 p.m.—STUDIO ORCHESTRA.  
Overture, "Mistle" (Gounod).  
1.50 p.m.—JESSIE SMITH, Contralto.  
"Angels Guard Thee."  
"Songs My Mother Taught Me."  
1.57 p.m.—STUDIO ORCHESTRA.  
Overture "Fanny's Care" (Mendelssohn).  
2.0 p.m.—Close Down.  
Results of Pyramid Races will be given at close of the Meeting.

## AFTERNOON SESSION.

- Announcer ..... MAURICE DUDLEY  
Accountant ..... AGNES FORTUNE  
2.45 p.m.—Description of Proceedings at the Public Reception to the Duke and Duchess of York, transmitted from the Exhibition Building.  
2.50 p.m.—STUDIO ORCHESTRA.  
"The Show" (Ballet Suite (Anzell).  
3.10 p.m.—"AD FAIT" "Fashion Talk."  
3.25 p.m.—STUDIO ORCHESTRA.  
"La Traviata," Part I (Verdi).  
4.5 p.m.—Results of Wags Races, Gold Cup Meeting.  
4.10 p.m.—GRACE AND KEATS.  
Song "The Breeze and Stars."  
Duet, "Silver Bells."  
4.17 p.m.—STUDIO ORCHESTRA.  
"La Traviata," Part II (Verdi).  
4.30 p.m.—MRS. M. GALLAWAY MAHOOD.  
"Art in Modern Life."  
4.45 p.m.—"Herald" News Service Stock Exchange.  
5.0 p.m.—Results of Wags Races, Gold Cup Meeting; Close Down.

## EVENING SESSION.

- 5.10 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.  
5.35 p.m.—WIN AND WINDLE will entertain children for a few minutes.  
6.5 p.m.—"BILLY BUNNY" has a lovely story for the littlest ones.  
8.15 p.m.—TIERLGA READY, Banjo Soloist.  
8.22 p.m.—"BILLY RUNNY"  
"Tanglewood Tales."  
8.31 p.m.—"Agnis" and "Herald" News Services; Weather Synopsis; Shipping Movement.  
8.47 p.m.—Stock Exchange Information.  
8.52 p.m.—Fish Market Reports, by J. B. Dorsett, Ltd.  
8.55 p.m.—River Reports.  
9.14 p.m.—Market Reports of Fruit, by the Victorian Fraternity Association, compiled by "The Fruit World," exclusive to 4LO.

7.10 p.m.—Musical programme from the Studio.

7.20 p.m.—Women's Session. Talk on "Home-keeping," by Miss Gwen Varley, Broadcasters' Women's Sports Authority.

7.40 p.m.—Social notes by Mrs. Jordan. Replies to correspondents.

7.50 p.m.—Talk by Mrs. Jordan.

8 p.m.—G.P.O. Clock and Chimes.

8.1 p.m.—Musical programme from the Studio.

8.1 p.m.—News from the "Sun."

8.15 p.m.—Civil Service Station Trio.

8.20 p.m.—Miss Grace Saville, contralto.

8.25 p.m.—G.P.O. Clock and Chimes.

8.31 p.m.—News from the "Star."

8.34 p.m.—Reading room.

8.37 p.m.—Spotting talk ("Sun").

8.57 p.m.—Weather report.

8.58 p.m.—G.P.O. Clock and Chimes.

9.1 p.m.—Civil Service Station Trio.

9.15 p.m.—Social story.

9.20 p.m.—G.P.O. Clock and Chimes.

9.31 p.m.—Musical programme from the Studio.

9.41 p.m.—Producers' Distributing Society's fruit market report.

9.45 p.m.—Producers' Distributing Society's vegetable market report.

9.48 p.m.—Baking room.

9.52 p.m.—Resume of night's programme.

9.54 p.m.—Announcements.

9.56 p.m.—Social notes.

9.58 p.m.—G.P.O. Clock and Chimes.

10 p.m.—G.P.O. Clock and Chimes.

## EARLY EVENING SESSION.

8.45 p.m.—G.P.O. Clock and Chimes.

8.48 p.m.—Lilla White and Dottie Long Legs and entertainers.

8.49 p.m.—Musical programme from the Studio.

## SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and Chimes.

Analyses: Mortarfall, Lead, and Finance Co's report.

Weather report by courtesy of Government Meteorologist.

Producers' Distributing Society's fruit and vegetable market report.

Stock Exchange reports.

Grain and fodder report ("Sun").

Daily produce report ("Sun").

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

7.30 p.m.—Talk on "Gardening Sciences," by Mr. Coombs, Park Superintendent, City Council.

8.0 p.m.—G.P.O. Clock and Chimes.

Broadcasters' Topical Chorus.

8.3 p.m.—Miss Grace Saville, contralto.

8.40 p.m.—Mr. Fraser, Solo, baritone.

8.47 p.m.—Mr. Bill Mountrie, light comedian.

8.54 p.m.—Miss Gladys Vercoe, soprano.

8.54 p.m.—Instrumental Trio.

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

Weather report and forecast by courtesy of Government Meteorologist.

9 p.m.—G.P.O. Clock and Chimes.

9.1 p.m.—Mr. Randal Woodhouse, tenor.

9.5 p.m.—"The Singing from the 'Sun'" will talk on the program of Saturday's meeting.

9.25 p.m.—Graham and Kinney, comedy trio.

9.45 p.m.—Broadcasters' Instrumental Trio.

9.50 p.m.—Miss Grace Saville.

10 p.m.—G.P.O. Clock and Chimes.

10.1 p.m.—Mr. Fraser, Solo.

10.4 p.m.—Mr. Phil Mountrie.

10.15 p.m.—Mr. Randal Woodhouse.

10.25 p.m.—Amateurs' Dance Band broadcast from the ballroom of the Ambassadors. During the intervals between dances, news reports by courtesy of the "Sun."

11 p.m.—G.P.O. Clock and Chimes.

National Anthem.

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

- 31.0.—Broadcasting Company of Australia, Ltd., Melbourne, wavelength 371 metres, power 4000 watta.  
34G.—Queensland Radio Service, Brisbane, wavelength 353 metres, power 5000 watta.  
35L.—Central Broadcasters' Ltd., Adelaide, wavelength 495 metres, power 2000 watta.  
4W.—Western Farmers, Ltd., Perth, wavelength 1220 metres, power 5000 watta.  
2FL.—Zealandia Broadcasters, Ltd., Hobart, wavelength 385 metres, 3000 watta.  
2AR.—Associated Radio Co., Ltd., Melbourne, wavelength 454 metres, power 1000 watta.  
2DB.—Brisbane Business and Technical College, Melbourne, wavelength 253 metres, power 500 watta.  
31Z.—J. J. Nilson & Co, Melbourne, wavelength 313 metres, power 100 watta.  
4GR.—Gold Radio Electric Service, Toowoomba, Queensland, wavelength 736 metres, power 1000 watta.  
4DN.—DIN Pty., Ltd., Adelaide, wavelength 313 metres, 300 watta.



# RADIO

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

## REORGANISED

TO APPEAR AS A MONTHLY

Next Issue Early in May

- ¶ Watch the bookstalls and newsagents for the striking cover design of the new "Radio" to appear as a monthly early in May.
- ¶ It will contain 80 pages (exactly twice the size of the present issue) of interesting and informative articles for radio enthusiasts of all classes, from the beginner to the amateur experimenter.
- ¶ Among the features will be a long article by SENATORE GUGLI-ELMO MARCONI, written specially for "Radio." It will be the first article by the world famous scientist to be published in Australia, and will describe the early experiments which led to the perfection of the beam system of transmission.
- ¶ For the broadcast listener J. G. Reed, assistant chief engineer of Amalgamated Wireless, will give the constructional details of a new ultra-selective, soft-toned, distance-getting receiver, the result of a year's experimenting. Attached to the set is a battery eliminator enabling the whole of the power to be drawn from the electric light mains.
- ¶ C. D. MacLurcan writes for the amateurs whose interests are dealt with in a large Amateur section. An article describing the construction and installation of a small low power, short wave transmitter and receiver will also be published.
- ¶ A dozen other articles dealing with all phases of radio broadcast activity are under preparation.

## ORDER YOUR COPY TO-DAY

At All Newsagents

1/-

## NIGHT SESSION.

Announcer ..... ALFRED ANDREW

Accompanist ..... AGNES FORTUNE

7.15 p.m.—Under the auspices of the Department of Agriculture, MR. J. T. RAMSAY, Potato Expert, "Selection of Seed Potatoes."

7.30 p.m.—STUDIO ORCHESTRA  
"Martial Moments" (Aubrey Winter)7.40 p.m.—ARTHUR DOUGLAS, Comedian,  
"She's the Lass for Me" (Lauder)7.47 p.m.—ELSA LEWIS, Violin,  
Novelty, "Whistling With Violin."7.54 p.m.—TOSNOVOX QUARTETTE,  
"Viking Song" (Coleridge Taylor),  
"Sleeping" (Edward German)8.0 p.m.—DR. BROOKE NICHOLLS,  
"A Wonderful Life"8.15 p.m.—COLLINGWOOD CITIZENS'  
BAND, Overture, "Diamond Crown"8.25 p.m.—JACK KEARNS, Comedian,  
"The Green Grass Grew All Round"  
"My Mother Said"8.32 p.m.—TAMMA TIERNAN, Cello,  
"Aria—Contabile from Sonata" (Beethoven)8.40 p.m.—COLLINGWOOD CITIZENS'  
BAND, Selection, "Songs of England"8.50 p.m.—GRACE AND KEATS,  
Duet, "My Miss"  
"Simple Wedding"8.57 p.m.—MR. H. K. LOVE,  
"Technical Talk"8.55 p.m.—STUDIO ORCHESTRA,  
"Selection of J. L. Molloy's Songs" (Barnes)9.10 p.m.—ELSIE DAVIES, Soprano,  
Aria, "Daddy Asks, My Heart" (Saint Saens)9.24 p.m.—MAXWELL CARKEW, in a  
Humorous Mood9.30 p.m.—COLLINGWOOD CITIZENS'  
BAND,  
Duet, "A Night in Venice"  
March, "Carnival King"9.40 p.m.—RUSSELL CALLOW Tenor,  
"The Great Awakening" (Kramer)  
Soloist9.47 p.m.—C. RICHARD CHUNG, Flute,  
"Pavé Fantasia" (Gounod-Jung)9.54 p.m.—TOSNOVOX QUARTETTE,  
"In a Gondola" (Karl Lindner)9.59 p.m.—"CARDINAL"—Mr. H. A. Wolfe,  
Coordinating Editor of the "Argo" and "Australia-  
Advertiser," will speak on Saturday's Race10.10 p.m.—WIN AND WINDLE,  
"Impressions of the late Albert Chevalier"10.20 p.m.—STUDIO ORCHESTRA,  
"Suite—Indian Summer" (Jaks)10.30 p.m.—"Argo" News Service; British  
Official Wireless News from Radio; Meteorological  
Information from the Bureau10.40 p.m.—ELSIE DAVIES, Soprano,  
"In a Gondola"  
"The Minister Boy" (Moussé)10.45 p.m.—Arrangements for Road Notes, supplied  
by the Automobile Club of Victoria11.00 p.m.—OUR GREAT THOUGHT  
"The year duty, and duty" serve from it,  
To that which your conscience tells you  
to be right, and leave the consequences  
to God"—B. R. Haydon11.10 p.m.—JOE BRONSON AND HIS SYN-  
COPATING SYMPHONIST,  
"Hot Samson and Dullak Melody"  
"You've Got to Black Shuffle" (Sparks)11.20 p.m.—"Covered Glasses" (Storer)  
"Ain't I Wasting my Time" (Bliss)  
"The Village Blacksmith" (Moussé)11.30 p.m.—"That's Why I Love You" (Donaldson)  
"Albion Oh" (Merr, Berger)  
"Hi, Ho, the Merry" (Brown)11.40 p.m.—"The Two, Ho, Ho, Ho-He" (Woods)  
"Bargain" (Merr)  
"In a Little Spanish Town" (Warner)11.50 p.m.—"Inlounge" (Woods)  
"Tonight, my Night with Baby" (Merr)  
"Re, Ho, Hinkook" (Dixon)12.00 p.m.—"I Wish I Had my Old Gal Back" (Tellen)  
"Angers" (Drines)

12.10 p.m.—GOD SAVE THE KING.

## 4QG, BRISBANE

Queensland Radio Service.

Wave Length, 385 Metres.

Friday

## MIDDAY SESSION.

1.0 p.m.—Market Reports; Weather Informa-  
tion; "The Daily Mail" and "The Daily  
Standard" News1.20 p.m.—From Hotel Carlton: Lunch Hour  
Music played by Hotel Carlton Symphony  
Orchestra1.55 p.m.—From the Observatory: Standard  
Time Signal.

2.0 p.m.—Close Down.

## AFTERNOON SESSION.

3.30 p.m.—From Hotel Carlton: Afternoon  
Tea Music, played by Hotel Carlton Sym-  
phony Orchestra.4.15 p.m.—From the Studio: News Service  
supplied by "The Telegraph."

4.30 p.m.—Close Down.

## EARLY EVENING SESSION.

8.0 p.m.—"Daily Standard" News: Weather  
Information; Announcements.8.30 p.m.—Bedtime Stories by "The Sand-  
man"

9.0 p.m.—Market Reports; Stock Reports.

9.30 p.m.—Weather News; Announcements.

9.45 p.m.—Standard Time Signal.

## NIGHT SESSION.

## W.E.A. MUSIC CLASS.

The Workers' Educational Association  
Tutorial Classes in Music are being held  
in the reception hall at 4QG this season  
and are being conducted by Mr. Geo. Samp-  
son, F.R.C.O., Musical Examiner and Ad-  
visor, Department of Public Instruction.  
Lecturer in Music, Teachers' Training Col-  
lege. Each lecture will be followed by  
chamber music.

## NEW ZEALAND STATIONS:

1YA, Auckland, The Radio  
Broadcasting Co. of New  
Zealand, Ltd.Power 500 Watts; Wave-  
length, 420 Metres. Silent  
Night, Monday.2YK, Wellington, The Radio  
Broadcasting Co. of New  
Zealand, Ltd.Power 120 Watts; Wave-  
length, 295 Metres.3YA, Christchurch, The Radio  
Broadcasting Co. of New  
Zealand, Ltd.Power 500 Watts; Wave-  
length, 400 Metres. Silent  
Night, Thursday.4YA, Dunedin, The Radio  
Broadcasting Co. of New  
Zealand, Ltd.Power 750 Watts; Wave-  
length, 380 Metres.2YM, The Gisborne Radio Co.,  
Gisborne.Power 50 Watts; Wave-  
length, 260 Metres.The object of holding the classes at 4QG  
is to broadcast both the lectures and the  
music and so make available to a large  
audience the educational matter played  
before the students. The classes will ex-  
tend over a period and will be held each  
Friday night.The ordinary lecture session which begins  
at 7.45 p.m., will be dispensed with and  
the classes will begin at that hour.The tutor, Mr. Sampson, will lecture  
during the first portion of each evening,  
and chamber music will be played after  
each lecture.

2.45 p.m.—W.E.A. Music Class

8.0 p.m.—Metropolitan Weather Forecast

Weekend road information officially sup-  
plied by the Royal Automobile Club of  
Queensland.

## ST. GEORGE'S CONCERT.

The second portion of St. George's Church  
Concert will be relayed from Bernleigh.9.15 p.m.—FROM BERNLEIGH Vale, "The  
Mauritius Suite" (Sudra); 4QG Orchestra;  
Soprano solo, "The Prince of Denmark" (Bjorkeli);  
Mrs. Leslie G. Murray; Tenor solo, "I'll  
Sing the Songs of Arabia" (Hayes); Mr. E.  
L. Murray; Contralto solo, "Suzanne" (Wid-  
hoff); Mr. C. Hanson (accompanying by  
4QG Orchestra); recitation, selected; Mr.  
Harris; Soprano solo, "The Unknown" (Hart-  
ford); Miss DorothyBrown; Tenor solo, "Maitland" (Toot); Mr.  
Geo. Williamson; Duet, "April Morn"  
(Bathel); Mr. and Mrs. E. L. Murray; barito-  
ne solo, selected; Mr. Tom Collidge; March,  
"Constitution" (Allen); 4QG Orchestra.10.0 p.m.—From the Studio: Football Notes;  
"The Daily Mail" News; Weather News;  
Close Down.

## 5CL, ADELAIDE

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

Friday

## MORNING SESSION.

12 noon—G.P.O. chimes

12.15 p.m.—Records on the New Reproducing  
Process and the Audiotape Reproducing

12.30 p.m.—"Advertiser" news service

12.50 p.m.—Market reports

1.0 p.m.—Musical programme continued

2 p.m.—G.P.O. chimes and close down.

## AFTERNOON SESSION.

2.30 p.m.—G.P.O. chimes

3.15 p.m.—From the Maple Leaf Cafe—Or-  
chestral selections

3.45 p.m.—From the Studio, musical items

4.0 p.m.—G.P.O. chimes

4.15 p.m.—From the Arcadia Cafe—Orchestral  
selections

4.55 p.m.—Station announcements

5 p.m.—G.P.O. chimes and close down.

## EVENING SESSION.

6 p.m.—G.P.O. chimes

6.15 p.m.—Dinner music by the Concert  
Garden Orchestra

7 p.m.—Bedtime stories

7.30 p.m.—Market reports

7.40 p.m.—News Bulletin by "Metropolitan"

8 p.m.—G.P.O. chimes

8.15 p.m.—Broadcast from Messrs. Malcolm  
Reid's—Orchestral selections

8.30 p.m.—Song, Mr. Eric Stephenson

8.54 p.m.—Orchestral selection from Malcolm  
Reid's

8.58 p.m.—Song, Miss Thelma Hall

8.52 p.m.—Orchestral selection from Malcolm  
Reid's

9 p.m.—G.P.O. chimes

9.15 p.m.—Weather report

9.3 p.m.—Wheat report

9.5 p.m.—Malcolm Reid's Orchestra.

12/6

The Latest

12/6

Something New

12/6

Super Detector



Pay 12/6 for a Q.R.S. Super Detector, and double the efficiency of your set.

12/6

Increased Efficiency

12/6

A Better Value

12/6

A Quality Product

*A Different Tube*

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| Double Plate | Double Filament         |
| Double Grid  | Anchored Top and Bottom |

Factory Representatives

**Norman L. Burnell & Co. (N.S.W.) Ltd.**

"Burnell House," 350 Kent Street, Sydney

*If your dealer does not stock them write us.*

9.12 p.m.—Song, Miss Lucie Elliott.  
 9.18 p.m.—Gala solo, Mr. Gus McCallum.  
 9.23 p.m.—Song, Mr. Frank McCabe.  
 9.27 p.m.—Malcolm Reid's Orchestra.  
 9.31 p.m.—Gala solo, Mr. Eric Stephenson.  
 9.41 p.m.—Gala solo, Mr. Vera Rogers.  
 9.46 p.m.—Malcolm Reid's Orchestra.  
 9.55 p.m.—Song, Miss Thelma Ball.  
 10 p.m.—G.P.O. chimes.  
 10.1 p.m.—"Advertiser" news review.  
 10.11 p.m.—Malcolm Reid's Orchestra.  
 10.25 p.m.—Song, Mr. Frank McCabe.  
 10.29 p.m.—Gala solo, Mr. Ted Williams.  
 10.33 p.m.—Song, Mr. Eric Stephenson.  
 10.37 p.m.—Malcolm Reid's Orchestra.  
 10.47 p.m.—Song, Miss Thelma Ball.  
 10.51 p.m.—Malcolm Reid's Orchestra.  
 11 p.m.—G.P.O. chimes and close down.

## 6WF, PERTH

Western Farmer's.

Wave Length, 1250 Metres.

### Friday.

12.30 p.m.—Time in.  
 12.35 p.m.—First local news bulletin.  
 Market report.  
 Caldas.  
 1 p.m.—Time signal from Perth Observatory.  
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 1.2 p.m.—Studio Quintette.  
 2 p.m.—Close down.  
 2.30 p.m.—Time in.  
 2.35 p.m.—Musical programme.  
 4.20 p.m.—Close down.  
 6.00 p.m.—Time in.  
 6.40 p.m.—Musical program for the ladies by Annet Kane and Violet Henry, Lottie, Peggy, Duffy and Jean.  
 8.20 p.m.—Gala and Stars performance.  
 Market reports.  
 Caldas. News supplied by courtesy of "The West Australian" Newspaper Co.  
 7.45 p.m.—"Birds of the Month" by Mr. J. P. Baughn.  
 8 p.m.—Time signal from Perth Observatory.  
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 8.2 p.m.—A Relay.  
 Lectures, No. 5: "The Sonnet and its Development" by Miss Florence Hood, L.R.A.M.  
 No. 3 "Anonima from Sonnets in D" (Bosworth), Miss Florence Hood, L.R.A.M.  
 No. 2 "Sonnets in C" (Bosworth) Miss J. McKinnis, L.A.M.  
 9 p.m.—From the Studio.  
 Talk: "Gardenia Notes" by Mr. E. A. Huxley, representing Messrs. Down and Harrison.  
 Items by Misses Mason and De Bonker, instrumental duo of the duo, Galoniana.  
 10 p.m.—Second local news bulletin supplied by courtesy of "The Daily News" Newspaper Co.  
 10.10 p.m.—Close down.

## Saturday, April 23

### 2FC, SYDNEY

#### MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.  
 12.25 p.m.—Studio music.  
 12.35 p.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.

12.50 p.m.—Studio music.  
 12.55 p.m.—Summary of "Friday Morning Herald" news service and cables.  
 13.30 p.m.—Studio music.  
 13.40 p.m.—A gardening talk by Mr. G. J. Luskier, "Big Ben."  
 14.30 p.m.—Studio music.  
 1 p.m.—"Big Ben." Weather intelligence.  
 1.1 p.m.—"Evening News" midday news service.—Regular wireless news. Stock Exchange.  
 Note.—Racing events in the running will be described by the 2FC racing commission direct from the Randwick course, interspersed with musical items from the Studio at intervals.

#### AFTERNOON SESSION.

3 p.m.—"Big Ben."  
 Continuation of descriptions of racing events in the running, direct from the Randwick Racecourse.  
 During racing intervals, musical items will be given from the Studio and the Westworth Cafe Dance Orchestra, under the baton of Mr. Frederick Leighton, will be heard in popular numbers.  
 4.10 p.m.—A complete resume of the day's sporting events.  
 5 p.m.—"Big Ben."  
 Close down.

#### EARLY EVENING SESSION.

5.30 p.m.—The Chimes of 2FC.  
 5.50 p.m.—The "Hello Mac" talks to the children.  
 6.40 p.m.—A social story for the older ones.  
 6.45 p.m.—Dinner music.  
 7 p.m.—"Big Ben."  
 "Evening News" late news service.  
 Weather information.  
 7.20 p.m.—Studio music.  
 7.30 p.m.—A complete resume of today's racing events at Randwick.

#### NIGHT SESSION.

12.40 p.m.—Comedian, "Franklin," a talk by Eric Alec Fred Adams.  
 5 p.m.—"Big Ben."  
 Mr. Joseph Helm, tenor, "The Blind Begonia" (Elliott).  
 6 p.m.—Mr. Wally Baynes, comedian, in popular numbers.  
 6.5 p.m.—Miss Daisy Richards, violinist.  
 6.12 p.m.—Mr. Fred Harman, baritone.  
 6.24 p.m.—A selection of old English melodies for the Dulciana, in commemoration of St. George's Day, arranged and played by Madame Evelyn Grieg.  
 6.29 p.m.—Madame Vera Tamsa, soprano, in English items:  
 (a) "Nymphs and Shepherds" (Durell).  
 (b) "Should be Bishops" (Bishop).  
 6.28 p.m.—Madame Evelyn Grieg, pianoforte solo.  
 "Fomp and Circumstances" (Elliott).  
 (Introducing "Land of Hope and Glory")  
 6.42 p.m.—Mr. Joseph Helm, tenor.  
 6.45 p.m.—"Ed, not known" (Trotter).  
 (b) "Morphing" (Suzuki).  
 6.49 p.m.—Miss Lucie Elliott, entertainer:  
 (a) "Woman sees less than a man" (Lowe).  
 (b) "My character" (Elliott).  
 6.50 p.m.—Mr. Fred Harman, baritone.  
 6.55 p.m.—Mr. Wally Baynes, comedian, in popular numbers.  
 6.52 p.m.—Miss Daisy Richards, violinist.  
 6.10 p.m.—Mr. Montgomery Street and Miss Myra Leard in a comedy sketch.  
 6.24 p.m.—Continuation of St. George's Day programme arranged by Madame Evelyn Grieg.  
 Two English airs played on the Dulciana.  
 (a) "Silver threads among the gold."  
 "Bally Rooney" Madame Evelyn Grieg.  
 (b) "Madame Vera Tamsa, soprano:  
 (a) "Lullaby" (Cyrl Saint).  
 (b) "Sighs and Linnets' Inn" (O'Brien).  
 (c) "Home Sweet Home" (Bishop).  
 6.30 p.m.—Madame Evelyn Grieg, pianoforte solo.  
 "Dance Nocturne" (Cyrl Saint).

6.40 p.m.—Mr. Joseph Helm, tenor:  
 "Dance dreamy night" (Hollins).  
 6.44 p.m.—Miss Lucie Elliott, entertainer:  
 (a) "Oh, Percy" (Elliott).  
 (b) "Children's Dreams" (Elliott).  
 6.50 p.m.—Mr. Fred Harman, baritone.  
 6.55 p.m.—Mr. Wally Baynes, comedian, in popular numbers.  
 6.50 p.m.—Miss Daisy Richards, violinist.  
 10.10 p.m.—Mr. Montgomery Street and Miss Myra Leard in a comedy sketch, sketched by Miss Myra Leard.  
 10.18 p.m.—From the Westworth Cafe, "The Westworth Symphonette" Dance Orchestra in popular numbers.  
 10.42 p.m.—From the Studio.—Comedian records.—Late news and announcements.  
 10.50 p.m.—From the Westworth Cafe, "The Westworth Symphonette" Dance Orchestra, conducted by Mr. Frederick Leighton.  
 10.51 p.m.—From the Studio.  
 Mr. Montgomery Street, violinists:  
 (a) "The Game of Life."  
 (b) "Before and After."  
 10.52 p.m.—From the Westworth Cafe, "The Westworth Symphonette" Dance Orchestra in popular numbers.  
 10.52 p.m.—From the Studio.—Comedian records.—Late news and announcements.  
 10.55 p.m.—From the Westworth Cafe, "The Westworth Symphonette" Dance Orchestra, conducted by Mr. Frederick Leighton.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY

### Saturday.

11 noon.—G.P.O. Clock and Chimes.  
 12.1 p.m.—Special news broadcast by courtesy of Government Meteorology.  
 12.3 p.m.—Weather report and forecast.  
 12.5 p.m.—Women's Session.—Social notes by Mrs. Jordan.  
 1.15 p.m.—Mrs. Jordan repeats in circumstances.  
 1.25 p.m.—Talk on "Feeding the Family" by Mrs. Jordan.  
 1.50 p.m.—News from the "Sun."  
 1 p.m.—G.P.O. Clock and Chimes.  
 1.1 p.m.—Musical programme from the Studio.  
 1.15 p.m.—Talk on sporting and athletic features for the day, Lorraine Kealey, secretary, Cardiff Baseball.  
 During the afternoon sporting information will be broadcast by courtesy of the "Sun" Newspapers, interspersed with musical programme from the Studio.  
 4.01 p.m.—Resume of night's programme.  
 4 p.m.—G.P.O. Clock and Chimes.  
 5.4 p.m.—Racing round.  
 6.5 p.m.—Close down.

#### EARLY EVENING SESSION.

6.45 p.m.—G.P.O. Clock and Chimes.  
 6.50 p.m.—"Early George" and the ladies.  
 Friends will talk to the ladies.  
 6.40 p.m.—Musical programme from the Studio.  
 6.15 p.m.—Results of all sporting information, including racing, bowls, tennis, swimming, billiards, golfing, by courtesy of the "Sun."  
 6.40 p.m.—Country news from the "Sun."  
 6 p.m.—G.P.O. Clock and Chimes.—Broadcaster's "Trotter" Chorus.  
 6.2 p.m.—Musical programme from the Studio by the following artists:—  
 Mr. Bobb Watson, comedian.  
 Miss Thelma Houston, contralto.  
 Mr. Albert Caville, tenor.  
 Miss Phyllis Aikinawa, mezzo soprano.  
 Friends, Talk on the Amalgams.  
 Between musical items, the various racing events at the Manurewa Raceway will be broadcast direct from the Speedway.  
 Amalgams' Dance Band.  
 11.45 p.m.—G.P.O. Clock and Chimes.  
 National Anthem.

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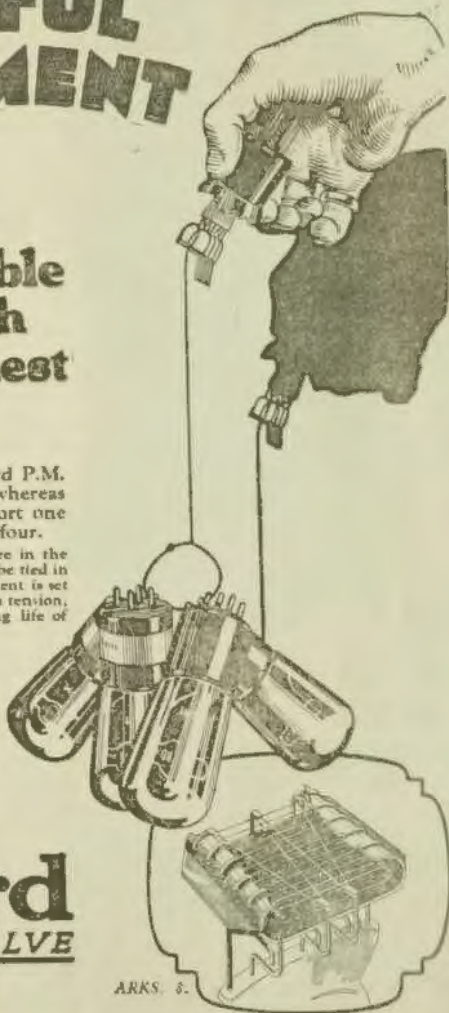
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## 3LO, MELBOURNE

## Saturday

**MORNING SESSION**  
**Anchor**—... MAURICE DODLEY  
**Accompanist**—... KENNY FORTUNE  
**11 a.m.—STUDIO ORCHESTRA**  
 "Remo's Bala, Bala" (Schubert)  
**11.30 a.m.—ARTHUR DODLEY'S Comedian**  
 "I just went for the day"  
**11.45 a.m.—FRANKLIN STONHAM, Clarinet**  
 "My Refrain" (Lagrange)  
 "Adagio From Concerto" (Shostak)  
**11.55 a.m.—STUDIO ORCHESTRA**  
 "The Brown-Hearted" (Bourne) (Hendrix)  
**11.55 a.m.—ROYAL SHERADERS**  
 Quartet, "Love your own"  
**EDITH HUXHAM, DOLLY BURDETT,**  
**RENN MILLAR AND H. HUXHAM**  
 Contable Solo  
 "That's the April Weather."  
**DOLLY BURDETT**  
 Studio Orchestra  
 "Autoute from Villa Cavallotti" (Harc  
 haven).  
 Queen's Favourite Quartet  
**SHERADERS QUARTET**  
 Novelty Song, "White I. Billing"  
**EDITH HUXHAM**  
 House Gleanings, Violin  
 "Prize Flower" (McMinn)  
 Georgia Sabaline Quartet  
 "Switzerland, Rhapsody" (Liza Lehmann)  
**SHERADERS QUARTET**

**12 p.m.—Time signal** British Official Wire-  
 less news from Ripley, Hastings and the  
 British Press Association, Calcutta.  
 "Argyl" and "Herald" news services.  
**12.20 p.m.—STUDIO ORCHESTRA**  
 "A Dutch Cavalry" (Liza Lehmann)  
**12.30 p.m.—S.D. GIGS, Comedian**  
 "Could I send George de la"  
**12.35 p.m.—Description of the arrival of the**  
 Duke and Duchess of York at Flemington  
 Race Course.  
**12.40 p.m.—Stock Exchange Information,**  
 "A Description of the Flemington Race—  
 Flemington, by "Muskie" of the Sporting  
 Globe.

**1.5 p.m.—Russell Callow, Tenor**  
 "La Danse Mabile" (Verdi)  
 "The Little Hills" (Gossett)  
**1.15 p.m.—Meteorological information.**  
**1.25 p.m.—Studio Orchestra**  
 "Serenade" (Valse Espanole) (Bischo)  
**1.35 p.m.—Maxwell Carey in**  
 Viololin Operetta.  
**1.40 p.m.—Description of Duke of York Stakes,**  
 Flemington Races, by "Muskie" of the  
 Sporting Globe.  
**1.45 p.m.—RUSSELL CALLOW, Tenor,**  
 Selected.  
**1.47 p.m.—STUDIO ORCHESTRA**  
 Selection, "Marry" (Hirsch)  
**1.55 p.m.—Studio Orchestra**  
 Results of Warracknabeal Higgs's Carnival  
 will be given as they come to hand.  
**1.55 p.m.—Description of King's Cup, Famine-**  
 Flemington Races, by "Muskie" of the  
 Sporting Globe.

**AFTERNOON SESSION**  
**JOE ARONSON AND HIS SYNCO**  
**SYMPHONISTS**  
**8 p.m.—JOE ARONSON AND HIS SYNCO**  
**SYMPHONISTS**  
 Sunday (Miller)  
 "By the Sign of a Rose" (Fields)  
 "Hello Little Girl of my Dreams" (Berk)  
 "The Original Black Bottom" (Henderson)  
 "Hello Alibi" (Berk)  
**11.15 p.m.—Description of Remona Steeple**  
 Flemington Races by "Muskie" of the  
 Sporting Globe.  
**11.30 p.m.—JOE ARONSON AND HIS**  
**SYNCO-SYMPHONISTS**  
 "Let's all Bury Fanny" (Leslie)  
 "Consolation" (Gershwin)  
 "Baffareddy" (Piano Solo) (Berk)  
 "The more we are together" (Campbell)  
 "Marry Lou" (Lema)  
 "Time a Little While of the the Belle" (Britt)  
**11.35 p.m.—Description of Glapins Handicap**  
 Flemington Races, by "Muskie" of the  
 Sporting Globe.  
**11.45 p.m.—Description of A.J.C. Plate, Handicap**  
 Race Course, Sydney, by arrangement with  
 2BC Sydney.

**8.10 p.m.—JOE ARONSON AND HIS**  
**SYNCO-SYMPHONISTS**  
 "Baby Face" (Aash)  
 "Gambler's Lament" (Berk)  
 "A Cup of Coffee, a Sandwich and You"  
 (Meyer)  
 "I can't love this kind" (Gossett)  
 "Just a Little Eye View" (Donaldson)  
 "Thinking of You" (Aash)  
**8.15 p.m.—Description of Canberra Writing**  
 Competition, by "Muskie" of the  
 Sporting Globe.  
**8.25 p.m.—JOE ARONSON AND HIS**  
**SYNCO-SYMPHONISTS**  
 "Baby Face" (David)  
 "At home with the Works" (Herrin)  
**8.35 p.m.—Herald news service** Stock Ex-  
 change information.  
**8.45 p.m.—Class down.**

**EVENING SESSION**  
**8.50 p.m.—Sporting results**  
**8.55 p.m.—SHERADERS' HOUR** Answers to  
 letters and heraldic questions.  
**9.05 p.m.—MAXWELL CAREY** has some-  
 thing awfully funny to tell you.  
**9.15 p.m.—LITTLE MISS KOOKABURRA**  
 will tell you about  
 "Baby's sweetie" (Meyer)  
 "The Gullible" (Gossett)  
**9.25 p.m.—VIVIAN COX** will sing two  
 little songs.  
**9.35 p.m.—LITTLE MISS KOOKABURRA**  
 will tell the ladies about some about  
 "Card of Halcyon School"  
 (Smith), the latest confession.  
**9.45 p.m.—"Argyl" and "Herald" news ser-**  
 vices. Weather information. Austral Mail  
 information for the Australian Aerial Ser-  
 vices Ltd.  
**9.55 p.m.—Stock Exchange information** De-  
 scribing shipping.  
**10.05 p.m.—Fish market reports** by J. R.  
 de la Lida.  
**10.15 p.m.—Market reports** by the Victorian  
 Producers Co-operative Co. Ltd. Newmarket  
 sheep sales. Poultry and Pigeons. Fruit  
 market reports by the Victorian Wholesaler  
 Producers Association, compiled by "The  
 Fruit World" exclusive to 3LO.

**NIGHT SESSION**  
**Announcer**—... ALFRED ANDREW  
**Accompanist**—... MONK FORTUNE  
**9.15 p.m.—MR. H. HOWLETT BOSS,**  
 "Battle of Zorndorf."  
**9.30 p.m.—MR. F. PESCOTT,**  
 "Australian Autumn Orchard"  
**9.45 p.m.—LEACH**  
 "Gambler's Lament"  
**9.55 p.m.—DR. THORPE NICHOLLS**  
 "An Island Rhapsody."  
**10.05 p.m.—BRUNSWICK CITY BAND,**  
 "The Thrifts and the Rose."  
**10.15 p.m.—HUXHAM'S SHERADERS**  
 Quartet, "Go wrong, make and mothers"  
**EDITH HUXHAM, DOLLY BURDETT,**  
**RENN MILLAR AND H. HUXHAM**  
 Bass Solo, "The Land of the" (Harriman)  
**RENN MILLAR**  
 Bywayville City Band.  
 March, "The Colonel's Parade" (Herrin).  
 Tenor Solo, "Old Mate" (Edwards).  
**HUGH HUXHAM**  
 Quartet, "Chain"  
**THE SHERADERS QUARTET**  
 Concert Solo, "The Last Chord"  
**HUGH NIVEN**  
 Operatic Quartet.  
 "Cassellaria" (Richards)  
**SHERADERS QUARTET**

**8.15 p.m.—FIFTEEN MINUTES from the**  
**STADIUM, Melbourne**  
**9 p.m.—BRUNSWICK CITY BAND,**  
 "Favourite" "Maid of Orleans"  
**9.10 p.m.—ELBA LEWIS, Violin,**  
 "O sole mio" (Di Capua).  
**9.15 p.m.—ORACE AND BEATS,**  
 Duet, "You Ought to See"  
 Song, "You and Me"  
 Medley.  
**9.25 p.m.—MOANA LUA ITO,**  
 "Hawaiian Melodies."  
**9.35 p.m.—BYD BECK, Comedian.**  
 "The General"  
**9.45 p.m.—BRUNSWICK CITY BAND,**  
 Trombone Solo, "I Ease."  
 "The Joyous"  
 March, "King's Guard."

**9.45 p.m.—RUSSELL CALLOW, Tenor.**  
 "A Birthday Song" (MacFadden)  
 "Only the River Running By" (Hopkins)  
**9.55 p.m.—MOANA LUA ITO,** Hawaiian  
 Instrumentals.  
 Popular Airs.  
**10.15 p.m.—"Argyl" News Service** British  
 Official Wireless News; Announcements.  
**10.25 p.m.—BRUNSWICK CITY BAND,**  
 Intermission, "A Storm in June"  
 March, "The Great Little Army."  
**10.35 p.m.—RUSSELL CALLOW, Tenor,**  
 "The Gallop Machine" (Herrin)  
 "Remo"  
**10.50 p.m.—WIS AND WIDDLE,**  
 "Before and After the Hooey."  
**10.55 p.m.—MOANA LUA ITO**  
 Selected.  
**10.57 p.m.—Meteorological information,** Sport-  
 ing Results.  
**11.0 p.m.—"THE GREAT THOUGHT"**  
 "Let us love each other, make night,  
 and in this faith to us, in the end  
 there is no more sorrow, no misunderstanding"  
 — Sir John Lamb.  
**11.1 p.m.—JOE ARONSON AND HIS SYN-**  
**COPATING SYMPHONISTS**  
 "Baby Face" (David)  
 "At Home With the World" (Berk)  
 "Hi Diddo Diddo" (Goss)  
 "Nepotism Light" (Amosette)  
 "Fooling" (Whiting)  
 "Gambler's Lament"  
 "Fire, Fire Fire" (Gay)  
 "Dorothy's Lullaby" (Stenham)  
 "Ass for Doctor, Lady" (Parker)  
 "Gimme a Little Kiss Will Ya, Bub?"  
 (Hoffard)  
 "Boss Mayo" (Herrin)  
 "Tune Love Girl" (Herrin)  
 "No Foolin'" (Gossett)  
 "Bawling Out Steam" (Berk)  
**11.15 p.m.—GOD SAVE THE KING.**

## 4QG, BRISBANE

## Saturday

## NO MIDDAY TRANSMISSION

## AFTERNOON SESSION

**1.55 p.m.—Tune-in.**  
**1.55 p.m.—A Mother for little listeners** by  
 Miss Worsdale.  
**1.58 p.m.—Class down.**

## EARLY EVENING SESSION

**6.40 p.m.—Children's Sunday Bedtime Stories**  
 by "Gable Ben" and "Uncle Jim."  
**7.15 p.m.—Radio News, Football Results,**  
**1.20 p.m.—Sailing Notes** by "Tiller."

## NIGHT SESSION

**7.15 p.m.—Gardening Talk—Some Choice**  
 Varieties of Roses, by "Tosmas."

## GAIETY ORCHESTRA—NATIONAL SPECTRUM

**8.8 p.m.—From Gaiety Theatre, Townsville:**  
 Orchestral Music.  
**8.50 p.m.—From the National Speedway:**  
 Motor Cycle Races.  
**9.00 p.m.—From Lennon's Ballroom:** Dance  
 Music.  
**10.0 p.m.—From the Studio:** "The Sunday  
 Mail" "News Service" Weather News: Close  
 Down.

## 5CL, ADELAIDE

## Saturday

## MORNING SESSION

**11 a.m.—G.P.O. closes.**  
**11.1 a.m.—Recitals on "Autoute Reproduce"**  
 and "New Reproducing System."  
**11.45 a.m.—Advertiser's news service.**  
**12 noon—G.P.O. closes and class down.**

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## AFTERNOON SESSION.

3 p.m.—A running description of the Tattersall Club races by Mr. Arnold Tedder, interstate sporting, and Souera numbers.

## EVENING SESSION.

6 p.m.—G.P.O. cinema.  
6.3 p.m.—Dinner music by Covent Garden Bandstand Orchestra.  
7 p.m.—G.P.O. cinema.  
7.3 p.m.—Bedtime stories.  
7.45 p.m.—Market reports.  
7.55 p.m.—Sporting talk.  
8 p.m.—G.P.O. cinema.  
8.1 p.m.—Relay from Kewick. Proceedings of annual Anzac Dinner, interspersed with vocal numbers by Miss P. Gibbs, Miss Lucie Gilbert, Signor Torra, and Lawrence Haggitt.  
9 p.m.—G.P.O. cinema.  
9.1 p.m.—Whose report.  
9.2 p.m.—Talk on life of Shakespeare, by Rev. Hale. Items, Studio artists.  
9.45 p.m.—Anzac dinner, interspersed with vocal numbers.  
10.15 p.m.—"Advertiser" news service.  
11 p.m.—G.P.O. cinema and close down.

## 6WF, PERTH

## Saturday.

12 noon—Tune in.  
12.5 p.m.—Musical Programmes, including pianoforte recitals by MR. LESLIE JUDSON.  
12.45 p.m.—First Local News Bulletin: Market Report, Club News, Murray Street.  
1 p.m.—Time Signal from Perth Observatory.  
1.15 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.  
1.3 p.m.—Close down.  
4.45 p.m.—Tune in.  
4.55 p.m.—Children's Stories, by Gladys Perry and Mac.  
5 p.m.—Children's Stories, "Real Australia" including "Professor Kockabarra," told by Audley Ross.  
7.15 p.m.—Sports Results supplied by courtesy of "The Mirror" Newspaper Co.  
7.45 p.m.—Market Reports: Cable News. Supplied by courtesy of "The West Australian" Newspaper Co.  
7.45 p.m.—Talk.  
7.55 p.m.—Time Signal from Perth Observatory.  
8.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.

## A RELAY.

8.5 p.m.—Concert relayed from the Billy Edwards Music Association, Murray Street.  
9.15 p.m.—Second Local News Bulletin supplied by courtesy of "The West Australian" Newspaper Co., Sports Results, supplied by courtesy of "The Mirror" Newspaper Co., Weather Report and Forecasts, Late News Items supplied by "The Daily News" Newspaper Co.  
10.30 p.m.—Close down.

## Sunday, April 24

## 2FC, SYDNEY

## MORNING SESSION.

10.45 a.m.—Programme announcements.  
11 a.m.—"Big Ben" FROM ST. ANDREW'S CATHEDRAL, SYDNEY. The Morning Service. Preacher, The Very Rev. the Dean of Sydney. Commemoration of Anzac Day.  
12.15 p.m.—FROM THE STUDIO: News service.  
12.30 p.m.—Close down.

## AFTERNOON SESSION.

2 p.m.—"Big Ben" and programme announcements.  
3.1 p.m.—FROM THE BONDI BEACH Concert Band: A programme arranged by the Bondi Beach Concert Band: "Scottish Century" (Harris).  
3.5 p.m.—Waltz, "Dreams of the Ocean" (Gould).  
3.15 p.m.—Selection, "Our Miss Gibbs" (Douglas).  
3.30 p.m.—Waltz Song, "In a Little Spanish Town" (Wayne).  
3.45 p.m.—Corset, "Nanette" (Hoezee).  
3.55 p.m.—Fox Trot, "Red, Red Robin" (Wood).  
4.30 p.m.—Selection, "Lullaby" (Wallace).  
4.49 p.m.—March, "Palmer House" (Blumen).  
4.15 p.m.—FROM THE STUDIO: Mr. Walter Thorman, the well-known musician, will conclude his travel talks, giving this afternoon the third of the series "MUSIC IN AMERICA."  
4.52 p.m.—Studio music.  
4.45 p.m.—Close down.

## EVENING SESSION.

8 p.m.—"Big Ben" and announcements.  
8.5 p.m.—FROM THE CONGREGATIONAL CHURCH, PETERHAM: An Organ and Vocal Recital arranged by Mr. Christian Hellemann. ORGAN, "Toccata" (Wolfer). "Allegro Cantabile" (Wolfer). MIL CHRISTIAN HELLEMANN. SOLO, MISS EVA WEBB JONES, Mesian Organ, "Prelude to Trium of Gerontius" (Ligeti). MR. CHRISTIAN HELLEMANN. VOCAL SOLO, "Morning Prayer from Eph." (Ligeti). MISS HEINE BASSIEBE. ORGAN SOLO. (8) "Prelude in C Minor" (Chopin). (9) "Prelude in E Minor" (Chopin). (10) "Fantasia O. Sanctissima" (Liszt). MR. CHRISTIAN HELLEMANN. VOCAL SOLO, Miss Eva Webb Jones, mezzo. ORGAN. (11) "Toccata" (Gounod). (12) "Serenade" (Gounod). (13) "Toccata" (Schubert).

MR. CHRISTIAN HELLEMANN. 10.15 p.m.—EVENING SERVICE FROM THE CONGREGATIONAL CHURCH, PETERSHAM. PREACHER, Rev. A. P. DORAN. 8.30 p.m.—FROM THE MASTY BEACH BAND ROTUNDA: A programme arranged by the Masty Beach Band, Loughborough, E. Yorkshire. 8.30 p.m.—FROM THE STUDIO: Mr. Russell Rix, bass: "Baton's Night Song" (Samizet). 9.24 p.m.—Miss Margaret James, soprano: "Vol, che sapete" (Mozart). 9.34 p.m.—Mr. Lionel Lawson, violinist. 9.44 p.m.—Mr. Russell Rix, bass: (a) "Tired Hands" (Anderson). (b) "The Carlew" (Gould). 9.59 p.m.—Miss Margaret James, soprano (c) "With Verdure Clad" (Hyde). (d) "Clairville" (Morgan). 9.55 p.m.—Mr. Lionel Lawson, violinist. 10.4 p.m.—Mr. Russell Rix, bass: "Ten Ways" (Sanderson). 10.8 p.m.—Miss Margaret James, soprano: "Lull Night" (Kleroff). 10.11 p.m.—Mr. Lionel Lawson, violinist. 10.15 p.m.—National Anthem. Close down. At the Piano—MR. HORACE KEATS

## 2BL, SYDNEY

## Sunday.

10.45 a.m.—Special news service.  
11 a.m.—Service broadcast from the Presbyterian Church, Chalmers Street.  
1.30 p.m.—Organ recital, Chalmers Street.

4.30 p.m.—Bible Class, conducted by Mr. "Daino" Bradley.  
5.15 p.m.—Close down.  
8.45 p.m.—Children's service, conducted by Daddy Long Legs.  
9.15 p.m.—Service from St. Jude's Church of England, Bundoora. Close down.  
9.30 p.m.—Mr. William Everard, tenor.  
9.37 p.m.—Bandstand Instrumental Trio.  
9.47 p.m.—Miss Marjorie Skill soprano.  
9.54 p.m.—Resume of following day's programme.

Weather report and forecast by courtesy of Government Meteorologist.  
9 p.m.—G.P.O. News and Cinema.  
9.15 p.m.—Mr. Peter Sutherland, bass.  
9.8 p.m.—Mr. Bryce Carter, cellist.  
9.15 p.m.—Miss Amy Outings, contralto.  
9.25 p.m.—Mr. William Everard, tenor.  
9.28 p.m.—Bandstand Instrumental Trio.  
9.30 p.m.—Miss Marjorie Skill.  
9.40 p.m.—Mr. Peter Sutherland.  
9.45 p.m.—Miss Amy Outings.  
9.50 p.m.—Miss Dolores Blair, violinist.  
10.4 p.m.—Duet, Miss Amy Outings and Mr. Peter Sutherland.  
10.8 p.m.—National Anthem.

## 2GB, SYDNEY

## Sunday.

10.20 a.m.—Organ Music from St. Alban's Liberal Catholic Church, Belfiore.  
10.30 a.m.—Morning Service from St. Alban's. Celebration of the Holy Eucharist: Sermon.  
11 noon—Close down.  
7.15 p.m.—Music from Studio.  
7.35 p.m.—Lecture from Alway Hall.  
8.15 p.m.—Vocal Solos by Monica Herber.  
8.25 p.m.—Songs by Mrs. Bevanston.  
8.35 p.m.—Piano Solos by Mrs. Rogers.  
8.45 p.m.—Music.  
9 p.m.—Songs by Mrs. Bevanston.  
9.15 p.m.—Vocal Solos by Monica Herber.  
9.15 p.m.—Close down.

## 3LO, MELBOURNE

## Sunday.

10.30 a.m.—Bells from St. Paul's Cathedral.  
10.45 a.m.—Dr. Jack O'Connell Wireless News. Express train information.  
11 a.m.—SERVICE FROM TOORAK PRESBYTERIAN CHURCH: Preacher, Rev. W. C. Matthew, M.A. Organist and Choirmaster, Mr. James W. Hudson. Organ Voluntary. Hymn 11: "Holy, Holy, Holy—Old Testament Lesson. Prayer, Thanksgiving. Psalm 143: "Hear my Prayer, O Lord." Prayer: Intercessory. Matrical Psalm 121: "Now let us say and that truly." Address to children. Lord's Prayer. Children's Hymn 207: "If I come to Jesus" Imagination. Offertory and Anthem: "As Pants the Heart" (Sphar). Soloist: Miss Mabel Owen. SERMON. Prayer. Hymn 49: "Rejoice, the Lord is King." Benediction. Organ Voluntary. Close down.

## AFTERNOON SESSION.

2 p.m.—PLEASANT SUNDAY AFTERNOON. WESLEY CENTRAL, MISSION. Rev. J. H. Cain, Conductor, Mr. G. M. Williams. Organ Selection. Hymn, "Onward Christian Soldiers."



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Emmco Bakelite Case Transformer,  
21/-



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Emmco Balanced Socket  
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Emmco Balanced  
Socket, without  
frame, 2/9.

# New Emmco

During the last year or so the sale of EMMCO parts has reached huge proportions, mainly due to their mechanical and electrical perfection, and partly due to the fact that mass production methods, coupled with enormous up-to-date factory equipment, enables them to be sold at prices which are more than competitive.

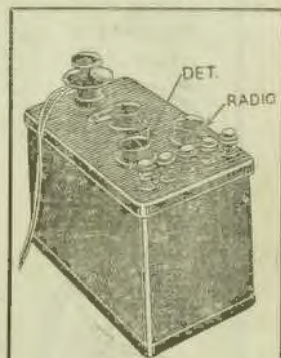
## Made in Sydney by Electricity

The Emmco Bakelite Case Transformer is an entirely new line. Terminals placed at base to ensure easy wiring. Shielded core. The moulded Bakelite case gives a handsome finish and increased efficiency. Ratios 2-1, 3½-1, and 5-1. Price, 21/-.

Emmco Midget Transformer. Answers the requirements of those desiring high efficiency and low price. Shielded core, perfectly insulated windings. Ratios 2-1, 3½-1, and 5-1. Price, 13/9.

Emmco Balanced Sockets. A new departure in the push-type valve socket design. Valve pins fit easily into the socket and are gripped tightly. Positive contact. The natural balance of the socket absorbs any jarring, so that microphonic noises are entirely eliminated. Bakelite frame. Price, 3/9.

Emmco Balance Socket supplied without frame for base panel mounting. Price, 2/9.



## Emmco "B" Battery Eliminator

Specially adapted for the current and voltage of the Australian electric A.C. lighting mains. Has five terminals, one Earth, one 0, one Detector, adjustable by a knob for voltages of from 20 to 45, one Radio, adjustable up to 100 volts, and one Audio, for the full 125 volts. If a lesser voltage is desired in use at more of the Audio valve, this may be connected to the Radio terminals and adjusted to suit. The voltage may be altered by the adjustable knob with the Eliminator in use.

A scientific made tin, sturdy built in a neat metal case with bakelite top. Compact. Weight 1½ lbs. Measurements 8½ in x 3 in x 7½ in. Price, £10/10/-.

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In line with their policy of keeping just a little ahead of the trend in radio development, EMMCO have released a large number of new season's radio parts, which carry the same guarantee of efficiency and quality that has always characterised EMMCO radio products. **Don't fail to see these New EMMCO parts at your dealers.**

## Meter Manufacturing Co. Ltd.



### Emmco De Luxe Illuminated Dial

Emmco De Luxe Bakelite Vernier Illuminated Dial has many distinctive and exclusive features. It incorporates the well-known hairline adjustment, logging window, and wonderfully fine tuning. Give your set that factory finish impossible to obtain otherwise. Price complete with switch and bulb, 13/6. Same dial without illumination. Price, 8/6.

Designed for Controlling the Filament Current for all types of valves, for use in resistance coupled amplification, and for "B" Battery Eliminators, the Emmcostad line is unequalled for performance on this market. The Emmcostad has a Bakelite knob and raising and one hole mounting. Will not pack. Unaffected by heat.

No. 1 Emmcostad, 2 to 100 ohms. Price, 7/6.

No. 2 Emmcostad, 10,000 to 100,000 ohms. Price, 7/6.

No. 3 Emmcostad, 2,500 to 25,000 ohms. Price, 7/6.

No. 4 Emmcostad, 30,000 to 500,000 ohms. Price, 7/6.

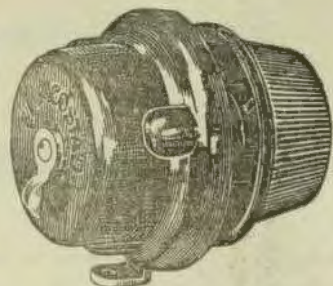
No. 5 Emmcostad, 0 to 5 megs. Specially suited for battery eliminators. Price, 7/6.

No. 6 Emmcostad, 1 to 10 megs. A first-class variable grid resistance. Price, 7/6.

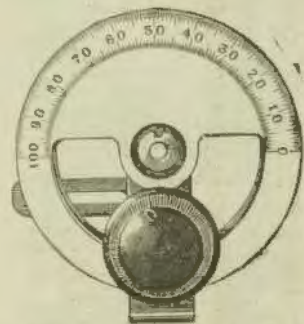
Emmco Back Panel Mounting Vernier Dial is a distinct advance upon anything yet produced. It offers a most handsome appearance, remarkably fine tuning and easy mounting. Price, including Bezel and Template, 5/6. Illuminations only, complete with switch and bulb, Price, 4/6.

The Emmco Stratelyne Condenser embraces correct minimum and maximum capacities, perfect insulation, pig-tail connection, true alignment, cut-away brass plates in both stator and rotor. Base or panel mounting. Has a hollow quarter-inch shaft interlocking, allowing tandem mounting of two or more condensers. Prices, 0005, 12/6; 08325 and 00035, 12/6.

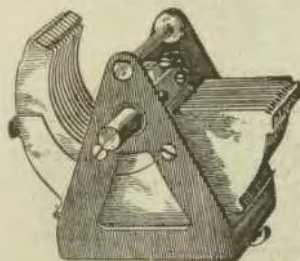
The Maclurcan Tone Purifier clears up harsh and discordant noises in your set and gives true, mellow reproduction. Easily fitted. Price, 21/6.



Emmcostad, 7/6.



Emmco Back-panel Vernier Dial, 5/6.



Emmco Stratelyne Condenser, 12/6.



Maclurcan Tone Purifier, 21/6.

Prayer, Hymn C. Irving Benson.  
Hymn: "Nearer My God to Thee."  
Solo: Mrs. Louis R. Becker (Solo Worldia A.M.U.A., South Australia).  
Orchestral Selection.  
Solo: Mrs. Louis R. Kayser.  
Notice.  
Offering.  
Orchestral Selection.  
ADDRESSES: GEN. I. K. FORSYTH, "Special Anzac Services," 10, St. Paul's Cathedral, National Anthem.  
Benediction.  
8.45 p.m.—MR. E. THURMUND, President of the Returned Soldiers' League, will speak on "Anzac Day, 1927."

## EVENING SESSION

8.45 p.m.—CHILDREN'S HOUR. Hymns to "The Bird People in the Wood."  
"Day is going in the west."  
"Hushed was the Evening Hymn."  
8.55 p.m.—"HILLY HUNNY"  
"Parables for Little People."  
9 p.m.—Musical Programme by "The Pilot Pilots."  
Chorus: "Sweet and Low."  
Solo and Chorus: "Lady Moon."  
Organ Solo.  
Two Little Bird Songs.  
"Little Robin Blue-breast."  
"Bimbobs, Bimbob."  
Piano: "A Little Mind."  
Chorus: "Pilgrim's Song."  
Duet: "The Fairy Tale."  
Evening Hymn: "Thirtieth Years."  
9.25 p.m.—Answers to Letters and Birthdays Greetings.  
9.35 p.m.—"HILLY HUNNY"  
"The Life of Gordon."  
9.45 p.m.—Solo from St. Paul's Cathedral.

## NIGHT SESSION

7 p.m.—SERVICE FROM BAPTIST CHURCH, JOE ARONSON SYMPHONY ORCHESTRA.  
RAYMOND LAMBERT, Organist.  
MADAME LAMBERT, Soprano.  
EDWARD LAMBERT, Tenor.  
WESLEY CHURCH CHOIR.  
Announcement: MAURICE HUDLEY.  
7 p.m.—SERVICE FROM BAPTIST CHURCH, ANZAC COMMEMORATION SERVICE.  
Scriptures.  
Call to Worship.  
Invocation.  
Lord's Prayer (Chanted).  
Hymn: "The Battle Hymn."  
Scripture: St. John's Gospel.  
Hymn: "The Battle Hymn."  
Prayer.  
Singing: "It comes from the misty sea."  
Offertory, Organ Interlude.  
Offertory Prayer.  
Hymn: "Once in Every Man and Nation."  
SERMON: "The Watcher on the Beach."  
John xxi, 4 Rev. W. D. Jackson, B.A., Hon. Padre Melbourne City.  
FROM THE STAGE.  
8.30 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA.  
"Sicilienne (Rhapsody)" (Friedmann).  
8.45 p.m.—RAYMOND LAMBERT, Pianist.  
"Ballad in C Minor" (Chopin).  
"Pompée Valse" (Poldini).  
8.47 p.m.—MADAME LAMBERT, Soprano.  
"Serenade" (Toselli).  
"Matinata."  
8.54 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA.  
"Gems of Gilbert and Sullivan Overture."  
8.54 p.m.—AUSTRALIAN NATIONAL ANTHEM.  
"Australia, Oh, Thou Favored Isle."  
Solo by Wesley Church Choir, and played by JOE ARONSON'S SYMPHONY ORCHESTRA, under direction Wm. C. James.  
8.58 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA.  
"In a Persian Market" (Kestely).  
8.55 p.m.—EDDARD LAMBERT, Violist.  
"Paroles de coeur" (Radoux).  
Variations by Tertini.

9.01 p.m.—MADAME LAMBERT, Soprano.  
"Air—Mini—Bénoîte."  
"Little Greek Home in the West."  
8.58 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA.  
"Four Indian Love Lullies" (Friedman).  
9.16 p.m.—"Argo," new service. British Official Wireless News.  
Meteorological information, Announcements.  
9.25 p.m.—OUR GREAT THOUGHT.  
"He is created who is content with the least; for content is the wealth of nature."  
—Suterast.  
10 p.m.—GOD SAVE THE KING.

## 4QG, BRISBANE

Sunday.

## MORNING SESSION.

## CHURCH SERVICE.

The complete Morning Service will be relayed from the Wharf Street Congregational Church.  
10.05 a.m.—Organ solo, Mr. Arch H. West, L.M.S. T.C.L.  
11.0 a.m.—Responses and Lord's Prayer; hymn 8, "We Praise You, We Worship Thee"; Scripture, Mark vi, 30-44; Cant 700, "The Strain of Unrest"; address in children; Children's hymn, No. 124, "Land of Our Birth"; notices and offering anthem, "Blessed are They that Dwell in Thy House"; hymn 10, "Prayer, hymn 416, "Fight the Good Fight"; sermon, "Gifts of the Desert"—text: numbers xii, 16, Rev. Percival Watson, B.A., hymn 479, "God sendeth Sun"; Benediction; "Nunc Dimittite"; organ postlude.  
12.15 p.m.—Close Down.

## AFTERNOON SESSION

## BAND CONCERT

The concert will be relayed from the Back Gardens.  
3.15 p.m.—Band Concert.  
4.30 p.m.—Close Down.

## NIGHT SESSION.

## CHURCH SERVICE.

The complete Evening Service will be relayed from the Wharf Street Congregational Church.  
7.0 p.m.—Organ solo, "Imperial March" (Egar), Mr. Arch. H. West, L.M.S. T.C.L.; "Impressions in E" (Kestely); children's bedtime stories, Rev. P. Watson, B.A.; organ, "The Hoary" (Novis).  
7.10 p.m.—"Tobacco" Hymn (German); prayer and Lord's Prayer; hymn 111, "Lord of Our Life"; Scripture, Isaiah lvi, solo, "The Lord is Very Faithful" (Benedict); Mr. Jack Lamb, prayer, duet, "Break, Break, Light" (Allison), Miss Dorrie Yarrow and Mr. W. Stukler, solos and recitations; hymn 37, "Wax are These" (Kestely); hymn 37, "For All the Saints"; sermon, "The Spirit of Anax"—text: Isaiah lvi, 1; Rev. Percival Watson, B.A.; hymn 479, "Much, Oh, Sovereign's Benediction"; Postlude.  
BAND CONCERT.  
At the conclusion of the Church Service the Concert by the Brisbane Municipal Council Band (conductor, Mr. E. Jackson), will be relayed from Wickham Park. The programme will include: "d'Ystou" (Adam); Overture, "La Re d'Ystou" (Adam); selection from "Les Huguenots" (Meyerbeer); cavatina, "Rognave and Lizenzi"—from "Lure of Lammranger" (Donizetti).  
9.30 p.m.—Close Down.

## 5CL, ADELAIDE

Sunday.

## MORNING SESSION.

11 a.m.—G.P.O. chimes.  
11.1 a.m.—Relay from Rose Park Congregational Church.  
12.05 p.m.—Close down.

## AFTERNOON SESSION.

2 p.m.—Relay from Elder Park Anzac Memorial service.

## EVENING SESSION.

8.00 p.m.—G.P.O. chimes.  
8.30 p.m.—Sunday stories for children.  
8.55 p.m.—G.P.O. chimes.  
9.1 p.m.—Solo from St. Peter's Cathedral.  
9.15 p.m.—Classical selections by the Victorian Trio, interpreted with vocal numbers by Mr. Ted Jenkins and Miss Florence Ranall.  
9.25 p.m.—Solo from St. Mary Magdalene.  
9.30 p.m.—G.P.O. chimes.  
9.4 p.m.—Weather reports.  
9.50 p.m.—Concert continued.  
10.05 p.m.—G.P.O. chimes and close down.

## 6WF, PERTH

Sunday.

10.45 a.m.—Tune in.  
11.0 a.m.—Morning Service relayed from the Museum Street Baptist Church, Perth.  
1.10 p.m.—Tune in.  
1.15 p.m.—Lieut. Col. Le Sauc' will give a short talk on Reptiles of the Zoo.  
1.30 p.m.—R.S.L. Band and Vocal Concert relayed from the Zoological Gardens, South Perth. Conductor: Mr. G.R.O. S. MELLOR.  
2.45 p.m.—Close Down.  
3.0 p.m.—Tune in.  
3.5 p.m.—Children's Bedtime Stories.  
3.55 p.m.—Evening Service relayed from the Seventh Day Adventist Church, Hay Street, Scotland.  
8.45 p.m.—Perth City Band and Vocal Concert relayed from the Government Gardens, Perth. Conductor, Mr. W. A. HALVORSEN.

Anzac Day, Mon. April 25  
2FC, SYDNEY

## MORNING SESSION.

10.55 a.m.—Programme announcements.  
11 a.m.—"Big Ben," FROM ST. STEPHEN'S CHURCH (Presbyterian), PHILLIP ST., SYDNEY.  
THE ANZAC COMMEMORATION SERVICE.  
The Rev. Hugh Paton will preside.  
11.05 a.m.—"Big Ben," Studio music.  
12.5 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.  
1.15 p.m.—Studio music.  
12.25 p.m.—Summary of "Sydney Morning Herald" news service and cables. Hugh Paton.  
12.35 p.m.—Studio music.  
12.45 p.m.—A Racing Talk.  
1 p.m.—"Big Ben," Weather Intelligence.  
1.15 p.m.—"Evening News" midday news service.  
1.25 p.m.—Studio music.  
2 p.m.—"Big Ben," Close down.

## AFTERNOON SESSION

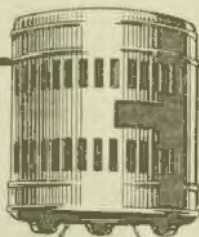
2 p.m.—"Big Ben," FROM THE BASEMENT OF THE SYDNEY TOWN HALL: The Anzac Day Annual Reunion of Soldiers, Chorus, "Rule Britannia"; "The Song of the Anzac."  
MR. W. E. LEWIS.  
Chorus, "Australia will be there."  
Song, "There's a Land."  
MR. DOBBS WARD.  
Chorus:  
61) "Boys of the Dardanelles."  
62) "Sons of the Sea."  
63) "Tappery."  
Duet, "Hos of my Heart."  
MISS OORIE WARD AND MR. W. E. LEWIS.

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**S**TRICTLY in accordance with Philips policy—savings resulting from economy in production and distribution of this popular little Battery Charger are now passed on to the buying public direct.

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**Chorus:**  
 (a) "Maledicelle from Armentiers."  
 (b) "Pack up your Troubles."  
 (c) "The long, long Trail."  
 Speech by Dr. Mary Booth, D.L.B., and General Anderson.  
 Chorus, "A.N.A.C."  
 Speech by General Sir Granville Byrne, High Commissioner, Tasmania.  
 Song, "Keep the Home Fires."  
**MISS DORRIS WARD.**  
**Songs:**  
 (a) "Mother Macbeth."  
 (b) "Grey Home in the West."  
 (c) "W. E. LEWIS."  
 Song, "Roses of Picardy."  
**MISS HART.**  
 Chorus, "The Sunbina of your Smile."  
 Request Chorus.  
 (a) "Auld Lang Syne."  
 (b) "God Save the King."  
**NOTE:** During the intervals at the Town Hall entertainment, sporting results, late news and musical items will be given from the studio.  
 8 p.m.—"Big Ben." Close down.

**EARLY EVENING SESSION.**

8.45 p.m.—The Chimes of St. Paul.  
 9.00 p.m.—The "Hello Man" talks to the children.  
 9.30 p.m.—A story for the older ones.  
 9.40 p.m.—Dinner music.  
 9.50 p.m.—"Big Ben." Late sporting news.  
 9.55 p.m.—Weather and shipping intelligence.  
 10.00 p.m.—"Evening News" late news service.  
 Weather information.  
 10.25 p.m.—Studio music.

**NIGHT SESSION.**

10.45 p.m.—Programme announcements.  
 11.00 p.m.—A talk by Captain Fred Astors on Anzac Day.  
 11.30 p.m.—"Big Ben." FROM THE HAYMARKET THEATRE, GEORGE STREET, SYDNEY. Items by the Operatic Orchestra of 20 members under the baton of Mr. Stanley Porter.  
 11.50 p.m.—FROM THE STUDIO.  
 Mr. Norman Jackson, baritone.  
 11.55 p.m.—Mr. S. Quintin Downer, solo pianist.  
 (a) "Capriccio" (Schubert-Schumann).  
 (b) "Pastorale" (Schubert).  
 (c) "Erl-King" (Foghorn-Liszt).  
 12.24 p.m.—FROM THE BAPTIST HALL, ULTIMO.  
 Items by the Sydney Harmonic Choir, conducted by Mr. William Bourne.  
 Special Anzac Numbers.  
 12.45 p.m.—FROM THE STUDIO.  
 Mr. Tom Rea, trombone solo.  
 12.55 p.m.—Mr. Norman Jackson, baritone.  
 1.04 p.m.—Mr. George Welch, comedian.  
 9 p.m.—Mr. Tom Rea, trombone solo.

1.15 p.m.—FROM THE HAYMARKET THEATRE, GEORGE STREET, SYDNEY.  
 Vocal act.  
 1.20 p.m.—FROM THE STUDIO.  
 Mr. St. Quintin Downer, pianoforte solo:  
 (a) "Nocturne F Sharp Major" (Chopin).  
 (b) "Polonaise A Flat" (Chopin).  
 1.30 p.m.—FROM THE BAPTIST HALL, ULTIMO.  
 The Sydney Harmonic Choir in appropriate Anzac Numbers.  
 Conductor, Mr. W. Bourne.

1.45 p.m.—FROM THE STUDIO.  
 Mr. Norman Jackson, baritone.  
 1.50 p.m.—Mr. Tom Rea, trombone solo.  
 1.54 p.m.—Mr. George Welch, comedian.  
 10.3 p.m.—FROM THE HAYMARKET THEATRE, GEORGE STREET, SYDNEY.  
 Orchestral items.  
 10.12 p.m.—FROM THE STUDIO.  
 Mr. Scott Alexander in some Radio humor.  
 10.20 p.m.—Orchestral items from the HAYMARKET THEATRE, GEORGE STREET, SYDNEY. Conductor, Mr. Stanley Porter.

10.30 p.m.—FROM THE STUDIO.  
 Mr. Scott Alexander in a topical talk.  
 10.58 p.m.—FROM THE WENTWORTH CAPE, CHURCH HILL, SYDNEY.  
 Items by the Wentworth Cape Symphonic Brass Orchestra under the baton of Mr. Frederick Leitch.  
 10.58 p.m.—Celebrity records from the studio.  
 Late news and announcements.  
 10.52 p.m.—The new Wentworth Symphonic Dance Orchestra.  
 11 p.m.—"Big Ben." National Anthem.  
 Close down.

**2BL, SYDNEY****Monday.**

11 a.m.—Anzac Day Commemoration Service broadcast from the Sydney Domain.  
 12 noon—Musical programme from the studio and news from the "Sun."  
 12.50 p.m.—G.P.O. Clock and Chimes.  
 Close down.

**AFTERNOON SESSION.**

1.30 p.m.—During the afternoon musical programme and news from the "Sun" with speeches on Anzac Day, from the Studio.  
 2.05 p.m.—G.P.O. Clock and Chimes.  
 Close down.

**EARLY EVENING SESSION.**

8.45 p.m.—G.P.O. Clock and Chimes.  
 8.55 p.m.—"Doris George and the Kiddies."  
 9.00 p.m.—Musical programme from the Studio.  
 9.15 p.m.—Country news from the "Sun."

**2GB, SYDNEY****Monday.**

9 a.m.—Music.  
 9.15 a.m.—Chorus Talk by Mr. J. K. Powell.  
 9.45 a.m.—Music.  
 9.55 a.m.—Talk Psychological.  
 10.00 p.m.—Music.  
 10.15 a.m.—Health Talk and Diet.  
 10 a.m.—Close down.

**AFTERNOON SESSION.**

1.30 p.m.—Music.  
 1.37 p.m.—Talk.  
 1.45 p.m.—Music.  
 1.47 p.m.—Talk.  
 1.52 p.m.—Music.  
 1.58 p.m.—Close down.

**EVENING SESSION.**

8.30 p.m.—Children's Session conducted by Miss Ilma Barnes.  
 7 p.m.—Music.  
 7.15 p.m.—Talks.  
 7.35 p.m.—Music.  
 7.50 p.m.—Topical Talk by the Rt. Rev. G. S. Arundell.  
 8.00 p.m.—Music.  
 7.55 p.m.—Talk to men.  
 7.50 p.m.—Announcements.  
 7.45 p.m.—Instrumental Trio: DAN SCULLY, MURIEL LANG, ADA BROOK.  
 7.45 p.m.—Address by Professor Ernest Wood.  
 7.40 p.m.—Songs.  
 7.35 p.m.—Instrumental Quartet: Dan Scully, Monica Holder, Muriel Lang, Ada Brook.  
 7.30 p.m.—Announcements.  
 7.25 p.m.—Solo by Monica Holder.  
 9 p.m.—Topical Talk.  
 9.15 p.m.—Songs.  
 9.20 p.m.—Sonata for violin and piano: Dan Scully, Ada Brook.  
 9.40 p.m.—Songs.  
 9.45 p.m.—Piano Solo by Ada Brook.  
 9.55 p.m.—Chorus Talk.  
 10 p.m.—Great Thoughts.

**3LO, MELBOURNE****Monday.**

**MIDDAY SESSION.**  
 HUXHAM'S SERENADERS.  
 GRACE AND KEATS.  
 BESSIE GAUNSON.  
 RUSSELL CALLOW, Tenor.  
 THE STUDIO ORCHESTRA.  
 ANZAC DAY.

12 noon—Time signal, British Official Wireless News from Rugby, Reuters' and The Australian Press Association. Collico.  
 "Argus" and "Herald" news service.  
 12.20 p.m.—HUXHAM'S SERENADERS.  
 Quartette, "Close Your Eyes."  
 EDITH HUXHAM, DOLLY BURDETT, RENN MILLAR, HUGH GUXHAM.  
 Duo Solo, "Land of Hope and Glory."  
 RENN MILLAR.  
 STUDIO ORCHESTRA.  
 Suite, "The Purple Vine," Pt. 1. (Arncliffe).  
 Song, "Love Rules the World."  
 HUGH HUXHAM.  
 Quartette, "A Bird's Eye View of Kentucky."  
 THE SERENADER QUARTETTE.  
 STUDIO ORCHESTRA.  
 Suite, "The Purple Vine," Part 2. (Arncliffe).  
 Quartette, "Inflammatus" (Rossini).  
 THE SERENADER QUARTETTE.

12.40 p.m.—"The Purple Vine" Information.  
 12.45 p.m.—STUDIO ORCHESTRA.  
 "Britannia" (Mackenzie).  
 2 p.m.—GRACE AND KEATS:  
 "In Harmony."  
 1.7 p.m.—BESSIE GAUNSON:  
 "Brendia Vale" (Allard).  
 1.14 p.m.—Meteorological information. Shipping intelligence. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports.  
 1.30 p.m.—RUSSELL CALLOW, Tenor:  
 "Osway Awake Beloved" (Col. Taylor).  
 "Give a Man a Horse he can ride" (O'Hara).  
 1.37 p.m.—STUDIO ORCHESTRA.  
 "Songs Without Words" (Mendelssohn).  
 1.57 p.m.—RUSSELL CALLOW, Tenor:  
 "Ah Moon of My Delight" (Lohman).  
 "An Evening Song" (Bismantoni).  
 1.44 p.m.—MARK BREMNER, Soprano:  
 "Carol of Jesus Child" (Hughes).  
 "Go not happy day" (Frank Bridge).  
 1.51 p.m.—STUDIO ORCHESTRA.  
 Selection, "Reve Anglique" (Hubenstein).

**AFTERNOON SESSION.**

"MARCHING FOR THE DEAR OLD COUNTRY.  
 MARCHING AWAY TO WAR.  
 WITH THE HEARTS THEY LOVE BEHIND THEM.  
 AND THE LIPS THEY LOVE BEFORE."  
 2 p.m.—Description of the ANZAC DAY MARCH PAST OF RETURNED SOLDIERS AND SAILORS—transmission from the Portico of the Town Hall. THE PROCESSION will be headed by THE DUKE OF YORK.  
 2.30 p.m.—ANZAC COMMEMORATION SERVICE, transmitted from the Exhibition Building.

**ORDER OF SERVICE.**  
 Hymn, "All People that on Earth do Dwell" (Led by the Victorian Returned Sailors' and Soldiers' League Memorial Band).  
 PRAYER, Commemoration of the Fallen.  
 "In the Arbor" (Anthony and Cleopatra): R. GREENE.  
 THE PRESIDENT OF THE ANZAC DAY COMMEMORATION COUNCIL, LIEUTENANT GENERAL SIR JOHN MONASH, G.C.M.G., K.C.I.D., V.D.  
 HYMN, "Nearer my God to Thee."  
 LORD'S PRAYER.  
 HYMN, "Recessional."  
 FUNERAL MARCH.  
 BENEDECTION.  
 ONE MINUTE'S SILENCE.



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**LAST POST** Transmits from R.S.S.I.L.M. BAND.  
**NATIONAL ANTHEM.**  
 6.0 p.m.—Herald news service. Stock Exchange information.  
 6 p.m.—Close down.

**RYKING SESSION.**

- 6.40 p.m.—CHILDREN'S HOUR. Answers to Letters and Birthday greetings.
- 6.45 p.m.—GRACE AND KEATS.  
 "Little Songs for Little People."
- 6.5 p.m.—"LITTLE MISS KOOKABURRA" will have a Talk to all her Irish Kookaburra, Solers and Dephers about "Kind Thoughts to Others," and say the poem, "Give it a Thought."
- 6.12 p.m.—THELMA READY will give some Banjo Selections.
- 6.18 p.m.—"LITTLE MISS KOOKABURRA" will give another instalment of "Carol of Holydays School"—Carol's Lessons.
- 6.25 p.m.—"Argus" news service. "Herald" news service. Weather synopsis. Shipping movements.
- 6.47 p.m.—Stock Exchange information.
- 6.52 p.m.—Fish Market reports by J. R. Burnett, Ltd.
- 6.53 p.m.—River reports.
- 6.55 p.m.—Market reports by the Victorian Producers' Cooperative Co. Ltd. Newmarket Sheep sales. Poultry, Grain, Hay, Chief, Stages, Jute, Hairy Potatoes, Potatoes and Onions.
- 7.3 p.m.—Fruit Market reports by the Victorian Wholesale Fruitgrowers' Association, compiled by the "Fruit World," exclusive to 7.0.

**NIGHT SESSION.**

- (Respectively)
- LEIFT-COL. FORREST M.L.A.
- MR. E. C. H. TAYLOR.
- DR. BRODIE NICHOLLS.
- BRUNSWICK CITY BAND.  
 Conductor, R. Nixon.
- CALEDONIAN BOYS PIPE BAND.  
 Pipe Major, Geo. C. DeLano.
- SOUTHERN CHORAL SOCIETY MALE CHORUS.  
 Bugler, E. P. TAYLOR.
- GRAHAM BURGIN, Baritone.
- DOX FORBES, Tenor. MOANA LUA DUO.  
 Announcer—MAURICE DUBHAY.  
 Accompanist—AGNES FORTUNE.
- 7.15 p.m.—Under the auspices of the Drexler Australia League, LEIFT-COL. F. E. FORREST, M.L.A., takes leave of the League.
- 7.20 p.m.—MR. E. C. H. TAYLOR:  
 "School Life and School Sports."  
 7.25 p.m.—DR. BRODIE NICHOLLS:  
 "Fertile Days and Fertile Wars."  
**A NIGHT WITH THE DIGGERS.**  
 8 p.m.—"REVELLE," Bugler E. P. TAYLOR.  
 BAND CALL, Bugler E. P. TAYLOR.  
**ENTRY OF THE BANDS:**  
 "Martial Moments," BRUNSWICK CITY BAND.  
 March "Top F of the Top," CALEDONIAN BOYS PIPE BAND.  
 "Echoes of the Ocean," BRUNSWICK CITY BAND.  
**SOLDIERS AND SAILORS' MARCHING SONGS, SOUTHERN CHORAL SOCIETY MALE CHORUS:**  
 "Madensticite from Armentiers."  
 "Till the Boys Come Home."  
 "Australia will be There."  
 "There's a Long, Long Trail."  
**DESCRIPTIVE SELECTION—An episode of the Great War.**  
 "Kahki Camps," BRUNSWICK CITY BAND.  
 Revells—fall in.  
 Regimental Bands in the Distance.  
 Arrival of Troops and Bands of Welcome.  
 Improvised Concerts—Arrival of the V.C. Hero.  
 Night Fall—Last Post—all lights out.  
 Break of the next day—morning gun—revells.  
 Camp in motion—departure of Troops for Overseas.

- SOLDIERS AND SAILORS' MARCHING SONGS, SOUTHERN CHORAL SOCIETY MALE CHORUS:**  
 "Here we are again."  
 "Come Back."  
**BUGLE CALLS—Fall in—Advance:**  
 Bugler E. P. TAYLOR.  
**MARCH PART OF NAVAL AND MILITARY FORCES:**  
 March, "Victory's Return."  
**CALEDONIAN BOYS PIPE BAND:**  
 March "Duple McCall's Farewell to France" Strategy, "Arctian Gains."  
 Hiss "Miss Jettie."  
**CALEDONIAN BOYS PIPE BAND:**  
 "Song of the Sea."  
**BRUNSWICK CITY BAND:**  
 "Royal Caledonian Society's March."  
**CALEDONIAN BOYS PIPE BAND:**  
 "Flying Squadron."  
**BRUNSWICK CITY BAND:**  
**HUGLE CALL, "Reveille,"**  
 Bugler E. P. TAYLOR.  
**Sunday Parade.**  
**BRUNSWICK CITY BAND:**  
 "Early Morning"—Chorus of the Clock.  
 "Reveille"—Chorus Call—Dressing Bugle Band in the distance—March to Church. Band of the Church goes.  
 Organ Voluntary.  
 Hymn.  
 Collection of Service.  
 Organ Music.  
 Fall in.  
 Benediction Band—Falls in.  
**4.15 MORNING EVENING HOURS.**  
**SOUTHERN CHORAL SOCIETY MALE CHORUS AND BRUNSWICK CITY BAND:**  
 "Last Post Selection."  
**BRUNSWICK CITY BAND:**  
 "In the Memory of the Brave."  
**BRUNSWICK CITY BAND:**  
 6.40 p.m.—"Argus" news service. British Wireless News from Daily Announcements.  
 6.48 p.m.—GRAHAM BURGIN, Baritone.  
 "The Trumpeter."  
 "Trooper Johnnie Ludlow."  
 6.49 p.m.—MOANA LUA DUO:  
 "Hawaiian Melodies."  
 6.54 p.m.—SOUTHERN CHORAL SOCIETY MALE CHORUS:  
 "Song of the Northmen."  
 7.0 p.m.—BRUNSWICK CITY BAND:  
 "Barres of Galgibni" (Helen).  
 7.04 p.m.—DOX FORBES, Tenor:  
 "A Soldier's Song."  
 "Boy of Mine."  
 7.07 p.m.—MOANA LUA DUO:  
 Island Memorabilia.  
 7.08 p.m.—GRAHAM BURGIN, Baritone:  
 "The Last Post."  
 7.12 p.m.—BRUNSWICK CITY BAND:  
 "Trooping the Colours" (Rollways).  
 7.16 p.m.—SOUTHERN CHORAL SOCIETY MALE CHORUS:  
 "Ariele Dove"—(Sisont, Les Bullis).  
 "Lullabiking Pouchet."  
 7.17 p.m.—Meteorological information. Announcements.  
 7.18 p.m.—OUR GREAT THOUGHT:  
 "The ancients tell us what is best; but we must learn of the modern what is fittest."  
 —Franklin.  
 7.11 p.m.—JOE ARONSON AND HIS SYNCO-PATYING SYMPHONISTS:  
 "Angry" (Buzsics).  
 "I Wish I had my Old Gal Barik" (Yellen).  
 "Doo, Doo, Blackbirds" (Pison).  
 "To-night, My Night with Baby" (Meyer).  
 "Jolizing" (West).  
 "In a Little Spanish Town" (Wayner).  
 "Bergandy" (Walle).  
 "Me Too, do-ho, ha-ha" (Vpolski).  
 "Hi, Ho, Merrie" (Brown).  
 "Alaha Or."  
 "There's Why I Love You" (Donaldson).  
 "The Village Blacksmith" (Monroe).  
 "Am I Wasting My Time" (Wibo).  
 "Three Colored Glasses" (Singer).  
 "You've Got in Black Shuffles" (Sparks).  
 7.14 p.m.—GOD SAVE THE KING.

**4QG, BRISBANE**

Monday.

**MORNING SESSION.**

**SPECIAL TRANSMISSION.**  
 The Special Anzac Memorial Service will be played from St. John's Anglican Cathedral, Brisbane.  
 11.2 a.m.—FROM ST. JOHN'S CATHEDRAL, ANZAC DAY SERVICE.  
 12.0 noon—Close Down.

**MIDDAY SESSION.**

1.0 p.m.—Market Reports; Weather information supplied by the Commonwealth Weather Bureau; News Service supplied by "The Daily Mail" and "The Daily Standard."  
 1.20 p.m.—From Hotel Carlton Lunch Menu played by Hotel Carlton Symphonic Orchestra.  
 1.35 p.m.—From the Observatory. Standard Time Signal.  
 2.0 p.m.—Close Down.

**AFTERNOON SESSION.**

2.30 p.m.—From Hotel Carlton Afternoon Tea Music, played by Hotel Carlton Symphonic Orchestra.  
 3.15 p.m.—From the Studio; News Service supplied by "The Telegraph."  
 3.30 p.m.—Close Down.

**EARLY EVENING SESSION.**

6.0 p.m.—News Service supplied by the "Daily Standard."  
 6.30 p.m.—"The Children's Session—Stories by the Studio."  
 7.0 p.m.—Market Reports; Stock Reports.  
 7.30 p.m.—Weather News, Announcements.  
 7.45 p.m.—Standard Time Signal.  
 7.45 p.m.—"The Children's Music Concert," conducted by "The Music Man."

**NIGHT SESSION.**

**CITIZENS' ANZAC DAY MEETING.**  
 The Citizens' Anzac Day Meeting, which will be held in the Exhibition Hall, Brisbane, will be subject:  
 7.15 p.m.—Opening address, Mr. Maurice Lyon, Mayor, 515, Govt. of Eng., address by the Hon. W. Forgan Smith, M.L.A. (Antique Premier of Queensland), who will move the first resolution; male choir, "Invictus," Brisbane Anzacs Club (conductor, Mr. Leonard Francis); address by His Excellency the Lieutenant Governor (Hon. W. Lennon); orchestra, "In Memoriam" (Billivian); "The Last Post," sounded by Sergt. Barnes (late of 15th Batt., A.I.F.).  
 Without announcement, the audience to rise and maintain absolute silence for one minute, after which the orchestra will play the "Dont March" (the audience to remain standing).  
 Solo, "Trumpeter," Mr. J. E. England; orchestra, "La Boutique Fantastique" (Hilary); address, Clavin D. Garland, who will move the second resolution; orchestra, male choir, "The Long Day Close" (Billivian); hymn, "Aldie Wye Me."  
 8.15 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

**5CL, ADELAIDE**

Monday.

**MORNING SESSION.**

11 a.m.—G.P.O. chimes.  
 11.1 a.m.—Relay from Cross of Sacrifice, Anzac memorial service.

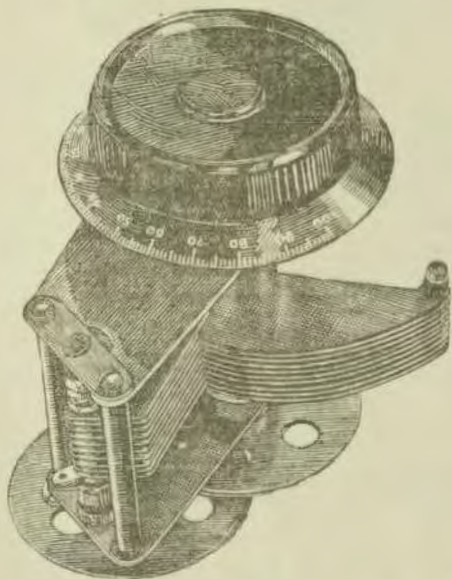
**AFTERNOON SESSION.**

2 p.m.—Relay from Waverley Showground—Description of returned soldiers' football match and sports.  
 3 p.m.—G.P.O. chimes and close down.



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## EVENING SESSION.

- 6.30 p.m.—G.P.O. chimes.  
 6.31 p.m.—Bullseye stories.  
 7.30 p.m.—Talk.  
 7.40 p.m.—Musical items.  
 8 p.m.—G.P.O. chimes.  
 8.1 p.m.—Relay from S.A.R. Institute, a recapitulation of events in the life of the Anzacs from Gallipoli to Penzance by Mr. N. Shepherd, Mr. H. King, Mr. K. Hughes, Mr. W. Hunge, Mr. C. Carter, Mr. Deveson, and others, assisted by S.A.R. Bard, short descriptions of the landing and the reasons for it, by Colonel Ash.  
 8.1 p.m.—G.P.O. chimes and close down.

## 6WF, PERTH

## Monday.

- 12.45 a.m.—Tune in.  
 1.0 a.m.—Morning Church Service.  
 5.0 p.m.—Tune in.  
 7.0 p.m.—Children's Bedtime Stories.  
 8.0 p.m.—Evening Church Service.

Tuesday, April 26  
2FC, SYDNEY

## MIDDAY SESSION.

- 10 noon—"Big Ben" and announcements.  
 12.0 p.m.—Stock Exchange, first call.  
 12.8 p.m.—Official weather forecast, rainfall, temperature, astronomical observations, shipping intelligence, mail services.  
 12.15 p.m.—Studio music.  
 12.25 a.m.—Summary of "Sydney Morning Herald" news articles and cables.  
 12.35 p.m.—Miss Ivy Taylor, mezzo.  
 12.40 p.m.—Rugby wireless news.  
 12.45 p.m.—Studio music.  
 1.0 p.m.—"Big Ben" Weather, intelligence.  
 1.3 p.m.—"Evening News" midday news service.  
 Producers' Distributing Society's Report.  
 1.20 p.m.—Studio music.  
 1.25 p.m.—Stock Exchange information.  
 1.30 p.m.—Miss Ivy Taylor, mezzo.  
 1.35 p.m.—Studio music.  
 1.50 p.m.—Last minute sporting information by the 2FC Racing Commissioner.  
 Close down.

## AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and programme announcements.  
 2.1 p.m.—FROM BURDEKIN HOUSE, MACQUARIE STREET, SYDNEY:  
 A programme of Australian Music and Poetry arranged by Miss Hilda Keith; Pianoforte solo:  
 (a) "Valse Brilliance."  
 (b) "Bonanza."  
 (c) "Mazurka in E."  
 Played by the Composer, MR. CHARLES DAVIS.  
 2.17 p.m.—Viola solo, "Eastern Romance" (O'Dea).  
 MR. CHARLES WENTZEL.  
 2.18 p.m.—Song, "You are my world" (Lilian Mitchell).  
 Sung by the Composer.  
 2.22 p.m.—Pianoforte solo:  
 (a) "A Mood."  
 (b) "The Knockabouts" (Nellie Weatherill).  
 Played by the Composer.  
 2.28 p.m.—Songs:  
 (a) "When the Sun hath Set" (Hilda Keith).  
 (b) "There's a Spring" (Charles Jarmann).  
 MISS MERYL HOLLIDAY, contralto.  
 2.32 p.m.—Recitation:  
 (a) "The Chestnut Thought" (Will Ogilvie).  
 (b) "My Country" (Dorothea McKellar).  
 MISS ALMA MILES.  
 2.40 p.m.—FROM FARMER'S TEA ROOMS:  
 Miss Pernis Butler, soprano.  
 2.45 p.m.—Talk on Home Cooking and Recipes by Miss Ruth Forest.

- 1 p.m.—FROM FARMER'S TEA ROOMS:  
 Miss May Crown, mezzo;  
 "Japanese Song" (Thomas).  
 4.5 p.m.—FROM BURDEKIN HOUSE, MACQUARIE STREET, SYDNEY:  
 Continuation of the Australian programme arranged by Miss Hilda Keith;  
 Song, "Home, Little Maui Huna" (Alfred Hill).  
 MISS MERYL HOLLIDAY, contralto.  
 4.8 p.m.—Recitation:  
 "Ury, Mauida" (Denison).  
 "Waratah and Wattle" (Lawson).  
 MISS ALMA MILES.  
 4.15 p.m.—Pianoforte solo:  
 (a) "Hudson-Croft Song."  
 (b) "Study for Left Hand."  
 Played by the Composer, Miss Nellie Weatherill.  
 4.25 p.m.—Miss Pernis Butler, soprano; FROM FARMER'S TEA ROOMS.  
 4.35 p.m.—Studio Music.  
 4.40 p.m.—FROM FARMER'S TEA ROOMS:  
 Miss May Crown, mezzo;  
 "Brightest Day" (Martin).  
 4.45 p.m.—Stock Exchange, third call.  
 4.50 p.m.—Studio music.  
 4.55 p.m.—"Big Ben." Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of 2FC.  
 6.00 p.m.—The "Hello Max" talks to the children.  
 6.30 p.m.—A serial story for the older ones.  
 6.40 p.m.—Dinner music.  
 7 p.m.—"Big Ben." Late sporting news.  
 7.10 p.m.—Dalgety's market reports (wheat, wheat and stock).  
 7.15 p.m.—Fruit and vegetable markets.  
 7.20 p.m.—Weather and shipping intelligence.  
 Stock Exchange.  
 7.25 p.m.—Late "Evening News" news service.

## NIGHT SESSION.

- 7.45 p.m.—Programme announcements.  
 7.55 p.m.—MR. G. J. LOCKYER will talk about the "Sun" which orbits Australia.  
 8 p.m.—"Big Ben." FROM THE STUDIO:  
 The Leichhardt District Band.  
 8.15 p.m.—Miss Maids Jones, soprante.  
 8.20 p.m.—The Leichhardt District Band.  
 8.22 p.m.—Mr. Harold Tollenmahe, baritone;  
 "The Loggaboymen" (Czechum).  
 8.28 p.m.—The Leichhardt District Band.  
 8.30 p.m.—Miss Maids Jones, soprante.  
 8.34 p.m.—The Leichhardt District Band.  
 8.35 p.m.—Mr. Harold Tollenmahe, baritone:  
 A Chanty, "The Lowestoft Boat" (Elear).  
 8.39 p.m.—Mr. Frank Smythe, bass; solo:  
 "Baby Face."  
 8.41 p.m.—Miss Maids Jones, soprante.  
 8.42 p.m.—The Leichhardt District Band.  
 8.43 p.m.—Miss Maids Jones, soprante.  
 8.48 p.m.—The 2FC Studio Dance Band; conductor, Mr. Eric Pearce:  
 Fox Trot, "Ain't she sweet" (Ager).  
 8.50 p.m.—Captain Frank Hurley will give the third of his series of Adventure Talks. His subject to-night is: "Windjammers and Sea Chanties. Into this talk will be superimposed the attendant atmosphere with typical songs and incidents.  
 8.55 p.m.—Mr. Harold Tollenmahe, baritone:  
 (a) "Round the galaxy tree" (Oliver).  
 (b) "Go in Sea" (Trotter).  
 10 p.m.—"Big Ben."  
 Captain Frank Hurley will give the second part of his adventure talk.  
 10.30 p.m.—The 2FC Dance Band in the following order:  
 (a) "On the Riviera" (Gilbert).  
 (b) "Sam the Old Accordion Man"  
 (c) "Cover me up with Sunshine" (Diano).  
 (d) "Who's Who" (Kern).  
 (e) "Gravy Time" (Yellen).  
 (f) "It made you Happy" (Donaldson).  
 (g) "Waltz (a) "Waiting."  
 (h) "Consolation" (Gardner).  
 During the intervals of dance music late news and announcements.  
 11 p.m.—"Big Ben." National Anthem.  
 Close down.

## 2BL, SYDNEY

## Tuesday.

- 10 noon—G.P.O. Clock and Chimes.  
 12.1 p.m.—Special ocean forecast by courtesy of Mr. Maras.  
 12.2 p.m.—Weather report and forecast.  
 12.3 p.m.—News from the "Sun" and racing results.  
 12.35 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Stock Exchange calls.  
 12.42 p.m.—Rahms' market report.  
 12.45 p.m.—Fish market report.  
 12.48 p.m.—Vegetable market report.  
 12.50 p.m.—Fruit market report.  
 12.52 p.m.—Dairy produce market report.  
 12.55 p.m.—G.P.O. Clock and Chimes.  
 12.58 p.m.—Fruit produce market report.  
 12.59 p.m.—Musical programme from the Studio.  
 1.00 p.m.—News from the "Sun."  
 1.05 p.m.—Billie's Instrumental Quartet. Direction, Carl Castling.  
 1.10 p.m.—G.P.O. Clock and Chimes.  
 1.13 p.m.—Shipping arrivals and departures and movements of important ships.  
 1.15 p.m.—News from the "Sun."  
 1.18 p.m.—Musical programme from the Studio.  
 1.20 p.m.—Women's Section. Social notes by Mrs. Jordan.  
 1.24 p.m.—Mrs. Jordan replies to correspondents.  
 1.25 p.m.—Talk by V. R. Adams, A.M.A.  
 1.28 p.m.—G.P.O. Clock and Chimes.  
 1.31 p.m.—Musical programme from the Studio.  
 1.33 p.m.—News from the "Sun."  
 1.35 p.m.—G.P.O. Clock and Chimes. Trio Direction, Miss de Coorey Renner.  
 1.40 p.m.—G.P.O. Clock and Chimes.  
 1.41 p.m.—News from the "Sun."  
 1.44 p.m.—Racing results.  
 1.47 p.m.—Sporting talk ("Sun").  
 1.57 p.m.—Weather report.  
 4 p.m.—G.P.O. Clock and Chimes.  
 4.1 p.m.—Civil Service Stores Trio.  
 4.15 p.m.—Serial story.  
 4.30 p.m.—G.P.O. Clock and Chimes.  
 4.31 p.m.—Musical programme from the Studio.  
 4.41 p.m.—News from the "Sun."  
 4.50 p.m.—Racing results.  
 4.52 p.m.—Producers' Distributing Society's fruit and vegetable market report.  
 4.54 p.m.—Resume of night's programme.  
 4.55 p.m.—Announcements.  
 4.58 p.m.—Special ocean forecast.  
 8 p.m.—G.P.O. Clock and Chimes.  
 Close down.

## EARLY EVENING SESSION.

- 5.15 p.m.—G.P.O. Clock and Chimes.  
 5.45 p.m.—Daddy Long Legs will entertain the kiddies.  
 6 p.m.—The pupils of Miss South will entertain the kiddies.  
 6.10 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 Mr. Maras.  
 Producers' Distributing Society's fruit and vegetable market report.  
 Stock Exchange reports.  
 Grain and Fodder report ("Sun").  
 Dairy produce report ("Sun").  
 7.15 p.m.—Country news from the "Sun."  
 7.30 p.m.—Talk on "The Motor Car," by Mr. Martin.

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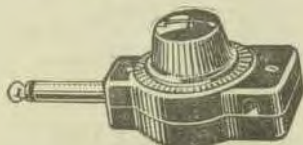


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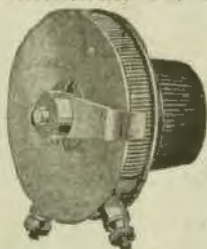


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No. 500 Modulators	0	14	6
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No. 206, 6 ohm Rheostat	0	9	0
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No. 110, 200 ohm Potentiometer	0	12	3
No. 111, 400 ohm Potentiometer	0	14	6
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664 Bourke Street, MELBOURNE.

109 Collins Street, HOBART

8.24 p.m.—Miss Mary Neal.  
 9.31 p.m.—Mr. Eric Masters.  
 9.43 p.m.—Broadcasters' Miniature Orchestra.  
 9.50 p.m.—Mr. Rex Harrison.  
 9.57 p.m.—Miss Pauline Harford-Foster.  
 10.1 p.m.—Mr. Frank Kynn.  
 10.11 p.m.—Miss Deryl Booth.  
 10.15 p.m.—The Ambassadors' Large Band broadcast from the ballroom of the Ambassadors. During intervals between dances "star" news will be broadcast.  
 11 p.m.—G.P.D. Clock and Chimes.  
 National Anthem.

## 3LO, MELBOURNE

Tuesday.

### MIDDAY SESSION.

#### WIN AND WINDLE.

TASMA TIERNAK (Solo).  
 NELL CRANE, Comedian.  
 MARIE BREMNER, Soprano.  
 C. RICHARD CHUGG, Piano.  
 THE STUDIO ORCHESTRA.  
 Accompanists . . . AGNES FORTUNE  
 Announcer . . . ALFRED ANDREW  
 WITH THE LADIES.

11 p.m.—Description of the DISPLAY BY THE ROYAL HUSBAND, THE DUCHESS OF YORK, by the NATIONAL COUNCIL OF WOMEN, transmitted from St. Kilda Town Hall.  
 "A GOOD LAUGH IS SUNSHINE IN A HOUSE"—(Theo).  
 12 noon—Time Signal, British Official Wireless News from Rugby, Hatters and The Australian Press Association Cables, "Argus" and "Herald" News service.

#### 1.30 p.m.—WIN AND WINDLE.

"The Harmonium."  
 1.30 p.m.—STUDIO ORCHESTRA.  
 Overture "The Barber of Seville" (Rossini).  
 1.49 p.m.—STOCK Exchange information.  
 1.50 p.m.—TASMA TIERNAK (Solo).  
 "Auldie with Me" (Lullaby).  
 1.57 p.m.—NELL CRANE, Comedian.  
 "Love for all your worth" (Paraphrase).  
 Monologue "Three Ages of Women" (Lawrence).  
 1.59 p.m.—STUDIO ORCHESTRA.  
 Selection "The Passing Show" (Frank).  
 1.14 p.m.—Meteorological information, Shipping intelligence, Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast, Haver reports.

1.29 p.m.—MARIE BREMNER, Soprano.  
 Love Waltz & Roving (F. Bridge).  
 "The Curlew Clock" (M. Shaw).  
 1.37 p.m.—STUDIO ORCHESTRA.  
 Valse "L'Innocent" (Liszt) (Accolide).  
 1.37 p.m.—C. RICHARD CHUGG, Piano.  
 "Need you" (Carlton).  
 1.41 p.m.—MARIE BREMNER, Soprano.  
 "At Night" (Rachmaninoff).  
 "The Fairy Laundry" (Philips).  
 1.45 p.m.—STUDIO ORCHESTRA.  
 "Suisle Melodique" (Friml).

### AFTERNOON SESSION.

Speakers:  
 MATRON MORELAND.  
 "AD FAIT."

EUGENE DUGGAN.  
 SYD BECK, Comedian.  
 GRACE AND KEATS.  
 JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.  
 Accompanists . . . AGNES FORTUNE  
 Announcer . . . ALFRED ANDREW  
 "COME AND TRIP IT AS YE GO."  
 "ON THE LIGHT FANTASTIC TOE" . . . Milton.

9 p.m.—Description of the DISPLAY BY THE STATE SCHOOL CHILDREN, in honor of the DUKE AND DUCHESS OF YORK, transmitted from the Melbourne Cricket Ground.

FROM THE STUDIO.—  
 3 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.  
 "Sunday" (Miller).  
 "By the Sign of a Rose" (Friday).  
 "Hello, Little Girl of My Dreams" (Beck).  
 3.10 p.m.—"AU FAIT" Fashion Talk.  
 3.25 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.  
 "The Original Black Bottom" (Henderson).  
 "Hello Aloha" (Hart).  
 "Let's All Have Fun" (Leslie).  
 3.35 p.m.—EUGENE DUGGAN.  
 "Vive La France."  
 3.40 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.  
 "Comedienne" (Walt).  
 "Reflexively" Piano Solo (Berg).  
 "The More We are Together" (Campbell).  
 3.51 p.m.—SYD BECK, Comedian.  
 "The Circus came to Town."  
 4 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.  
 "Mary Lou" (Lyman).  
 "Ting-a-Ling Waa of the Bell" (Britt).  
 "Baby Face" (Lax).  
 4.10 p.m.—GRACE AND KEATS.  
 "Pierrot, Pierrot, and a Piano."  
 4.17 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.  
 "Somebody's Lousy" (Davis).  
 "A Cup of Coffee, A Sandwich, and You"  
 "Just One More Kiss" (Owen).  
 4.27 p.m.—MATRON MORELAND.  
 Infant Walkers.  
 4.37 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.  
 "Just a Bird's Eye View" (Donaldson).  
 "Thinking of You" (Ash).  
 "A Day" (Dreux).  
 4.45 p.m.—"Herald" news service. Stock Exchange information.  
 5 p.m.—Close down.

EVENING SESSION.  
 5.40 p.m.—CHILDREN'S HOUR. Answers to Letters and Birthday Greetings.  
 5.45 p.m.—WIN AND WINDLE.  
 "Are you funny people who will entertain the children."  
 6.2 p.m.—"MARY GUMLEAF"—Poems:  
 "Dandelion."  
 "Growing Up."  
 Story for the littlest ones, "Alets and the Bear."  
 6.12 p.m.—STUDIO ORCHESTRA.  
 "The Mouse and the Clock" (Whitney).  
 "Princess Betty's Lullaby" (Stoneham).  
 6.21 p.m.—"MARY GUMLEAF"—Story for the older children.  
 "The Power of Kindness."  
 6.35 p.m.—"Argus" and "Herald" news service. Weather synopsis. Shipping movements.  
 6.45 p.m.—Stock Exchange information.  
 6.51 p.m.—Fruit Market reports by J. R. Borrett, Ltd.  
 6.52 p.m.—Rural reports.  
 6.54 p.m.—Market reports by the Victorian Producers Co-operative Co., Ltd. Dairy Produce, Potatoes and Onions, Haymarket Sheep sales, Poultry, Grain, Straw, Hay and Jute.  
 7.6 p.m.—Market prices of Oranges and Lemons by the Victorian Central Citrus Association. Fruit Market reports by the Victorian Wholesalers' Producers' Association, compiled by the "Fruit World," extensive to 31.0.

### NIGHT SESSION.

Speakers:  
 MR. J. G. CANNON, M.A., M.E.  
 MR. A. F. HICKEY.  
 DR. BROOKE NICHOLLS.  
 MR. A. W. JACKSON.  
 MADAME SOWARD.  
 LEN GIBSON'S NEAPOLITAN  
 SEXTETTE.  
 MADAME LAMBERT.  
 RUSSELL CALLOW, Tenor.  
 SYD BECK, Comedian.  
 ERN SPRY AND HIS ORCHESTRA.  
 7.15 p.m.—MADAME SOWARD.  
 "La Pipe de Jean Bart."

1.20 p.m.—Under the Auspices of the University Extension Board, Mr. J. G. Cannon, M.A., M. Ed. Lecturer in Psychology at the Teachers' Training College.  
 "Children's Hour."  
 7.40 p.m.—LACROSSE AND HICKEY, Mr. H. R. Jallmer, Hon. Gen. Sec. Victorian Lacrosse Association, and Mr. A. F. Hickey, Hon. Gen. Sec. Hockey Assn. Each will speak on "The Coming Season."  
 8 p.m.—DR. BROOKE NICHOLLS:  
 "The Home of the Turtle."  
 8.15 p.m.—Transmission of SPEECHES in connection with the COMMONWEALTH DINNER to the DUKE OF YORK, Queen's Hall, Federal Parliament House.  
 8.40 p.m.—LEN GIBSON'S NEAPOLITAN SEXTETTE:  
 "Hello Aloha."  
 "I Needn't Know how Wonderful You Were"

9.22 p.m.—MR. A. W. JACKSON will speak for a few minutes on "The Golf Finals."  
 9.30 p.m.—MADAME LAMBERT, Soprano:  
 "Alto" (Bogart) (Parsi).  
 "Jah!"  
 9.31 p.m.—LEN GIBSON and CHAS. BACKSTROM, Mandolin and Spanish Guitar:  
 "Meditation, Medley."  
 "La Polka."  
 9.40 p.m.—RUSSELL CALLOW, Tenor:  
 "Spirits gentle" (Donizetti).  
 "When the Night with Silly Silence" (Robert).  
 9.52 p.m.—"Argus" news service. British Official Wireless News from Rugby.  
 10.2 p.m.—SYD BECK, Comedian:  
 "The Blackie" (Gibson) (Snow).  
 10.10 p.m.—LEN GIBSON'S NEAPOLITAN SEXTETTE:  
 "Kadon."  
 "Hosanna Rose."  
 10.11 p.m.—MADAME LAMBERT, Soprano:  
 "Il Bacio" (Azzini).  
 "Serenade Youthful" (Brahms).  
 10.15 p.m.—LEN GIBSON'S NEAPOLITAN SEXTETTE (Schubert).  
 "Use you of Amour."  
 10.17 p.m.—Meteorological information, Announcement Notes by "Glimpse."  
 10.22 p.m.—LEN GIBSON'S NEAPOLITAN SEXTETTE:  
 "Harlequin."  
 "Auldie."  
 11 p.m.—OUR GREAT THOUGHT!  
 "Contentment opens the source of every joy"—Beattie.

11.1 p.m.—ERN SPRY AND HIS ORCHESTRA:  
 "Black Shuffie" (Sparks).  
 "Idling."  
 "A Spanish Town" (Wayne).  
 "Mary Lou" (Lyman).  
 "In a Little Garden" (Lula).  
 "It Made Me Happy" (Donaldson).  
 "Baby Face" (Davis).  
 "Smile a Little Bit" (Mortan).  
 "Am I Wasting My Time" (Johnson).  
 "How Marie" (Friml).  
 "Totem Tom Tom" (Stochart).  
 "Any Ice To-day, Lady" (Ballard).  
 "Oh, Charley, Take It Away" (Malcolm).  
 "Thinking of You" (Donaldson).  
 "Just a Bird's Eye View" (Donaldson).  
 "Hi, Diddle, Diddle" (Reidel).  
 11.40 p.m.—Close down.

## 4QG, BRISBANE

Tuesday.

### MIDDAY SESSION.

1.0 p.m.—Market Reports; Weather Information; News Service supplied by "The Daily Mail" and "The Daily Standard."  
 1.20 p.m.—From Hotel Carlton: Lunch Music from the Lounge, played by Hotel Carlton Symphony Orchestra.  
 1.58 p.m.—From the Observatory: Standard Time Signal.  
 2.0 p.m.—Close Down.

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A VALVE that will not only give more power to your Set, but permits the greater volume without distortion. That means you also reach more stations. At all times it makes reception sharp-cut, clear, distinct. In long-life, in quality of performance and manufacture, MAGNAVOX VALVES give you full satisfaction.

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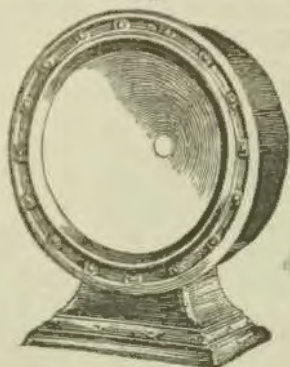
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And at BRISBANE

## AFTERNOON SESSION.

- 2.50 p.m.—A programme of music from the studio, including the following numbers played by the Studio Orchestra:—(a) March, "Miss Liberty" (Leroy); (b) waltz, "Delicacies" (Rolle); (c) intermezzo, "Witches" (Moore); (d) ballad, "It's a Wonderful World After All" (Alexander); (e) rag step, "The Country Wriggle" (Broadshire).
- 4.15 p.m.—"The Telegraph" News.
- 4.30 p.m.—Close Down.

## EARLY EVENING SESSION.

- 6.15 p.m.—"Daily Standard" News, Announcements.
- 6.30 p.m.—"The Children's Session"—Stories by Uncle Ben and Uncle Jim.
- 7.0 p.m.—Market Reports; Stock Reports.
- 7.30 p.m.—Weather News; Announcements.
- 7.45 p.m.—Standard Time Signal.
- 7.45 p.m.—Lecturette: "Motorists: Correct Lubrication," talk No. 2, by "Gargyley."

## NIGHT SESSION.

## WHITE HOTSPOT CONCERT.

- The first portion of to-night's programme will comprise a concert raised from the furniture warehouse of Messrs. Glens and Goodchap, The White House, Woodhatch, and Goodchap.
- 6.30 p.m.—From the White House—Pianoforte solo: (a) "A Water Lily" (McDowall); (b) "see a Wild Rose" (McDowall); Miss K. Warren; tenor solo, unaccompanied, Mr. J. Steele; humorous item, by Mr. H. A. McAllister; mezzo-soprano solo, "Tut a Hat of Sunlight" (Squire); Miss Stella Hoyle; baritone solo, "Mulester of Malaga" (Trotter); Mr. A. N. Falk; "ello solo, "Home to Our Mountains"—from "H Travellers" (Verdi); Miss M. Warren; duet, "In the Garden of Your Heart" (Dore); Miss Stella Hoyle; and Mr. A. N. Falk; pianoforte solo, selection of popular airs; Miss K. Warren; tenor solo, "Mars" (Paderewski); Mr. J. Steele; "ello solo, "Romance" (Margaret Ferguson); Miss M. Warren; baritone solo, "My Old Shako" (Trotter); Mr. A. N. Falk; humorous item, by Mr. H. A. McAllister; mezzo-soprano solo, "A Little Tune" (Licht); Miss Stella Hoyle; duet, "Watchman, What of the Night" (Sergius); Messrs. Stella and Falk.
- 8.15 p.m.—HERBANE APOLLO CLUB: From the School of Art: A recital by the Brisbane Apollo Club—(a) "Invitation" (Frothingwell); (b) "Alexander" (Brewer); (c) "John Bull" (Went).
- 8.30 p.m.—STUDIO CONCERT: From the Studio Selection, "H Travellers" (Verdi); the Studio Instrumental Quartette (conductor Mr. F. C. Smith); a thought for to-night, "The Loner Chamber"; orchestral, "Cupid's Carous" (Hobert); the Studio Instrumental Quartette; soprano solo, "The Song of My Heart"; Miss R. G. Hubbard; orchestral, "Saint D'Amour" (Eliak); the Studio Instrumental Quartette; soprano solo, "The Link Divine" (Hicks); Miss R. G. Hubbard; march, "Conscription" (Allen); the Studio Instrumental Quartette.
- 9.0 p.m.—From the Studio: "The Daily Mail News"; Weather News; Close Down.

## 5CL, ADELAIDE

## Tuesday.

## MORNING SESSION.

- 12 noon.—G.P.O. chimes.
- 12.15 p.m.—Recital of the "New Reproducing" "Shure" and the "Autonee Reproducer."
- 12.30 p.m.—"Advertiser" news service.
- 12.50 p.m.—Market reports.
- 1 p.m.—Musical programme.
- 2 p.m.—G.P.O. chimes and close down.

## AFTERNOON SESSION.

- 3 p.m.—G.P.O. chimes.
- 3.15 p.m.—Relay from Maple Leaf Cafe—Orchestral selections.
- 4.45 p.m.—From the Studio—Recital on the New Reproducing Records and the Autonee Reproducer.
- 4 p.m.—G.P.O. chimes.

4.1 p.m.—Relay from the Arcadia Cafe—Orchestral selections.

4.55 p.m.—Announcements.

5 p.m.—G.P.O. chimes and close down.

## EVENING SESSION.

- 6.15 p.m.—G.P.O. chimes.
- 6.4 p.m.—Relay from the Covent Garden Restaurant.
- 7 p.m.—Recital on the studio.
- 7.45 p.m.—Market reports.
- 7.45 p.m.—Elysian beautiful talk by "Dobson."
- 8 p.m.—G.P.O. chimes.
- 8.1 p.m.—SCL Merry-makers Orchestra.
- 8.15 p.m.—Opening chorus SCL Merry-makers Comedy Co.
- 8.25 p.m.—Comedy interlude, Mr. Will Range.
- 8.30 p.m.—Popular songs, The Merry-makers.
- 8.35 p.m.—SCL Merry-makers Orchestra.
- 8.40 p.m.—Song, Miss Linda Wald.
- 8.45 p.m.—Four Merry-makers.
- 8.50 p.m.—SCL Merry-makers Orchestra.
- 9 p.m.—G.P.O. chimes.
- 9.1 p.m.—Weather report.
- 9.15 p.m.—Wheat report.
- 9.25 p.m.—Part song, Merry-makers Comedy Co.
- 9.10 p.m.—Comedy interlude, Mr. W. Range.
- 9.55 p.m.—SCL Merry-makers Orchestra.
- 10 p.m.—Song, Mr. Eric Wickens.
- 10.15 p.m.—Comedy sketch, "Virtue's reward," Four Merry-makers.
- 9.47 p.m.—Song, Miss Blanche Schneider, with chorus.
- 10.1 p.m.—SCL Merry-makers Orchestra.
- 10.11 p.m.—Song, Mr. Gerald Neely.
- 10.15 p.m.—Cello solo, Mr. Ted Williams.
- 10.45 p.m.—G.P.O. chimes.
- 10.45 p.m.—Advertiser news service.
- 11 p.m.—G.P.O. chimes and close down.
- 10.35 p.m.—Concert continued.

## 6WF, PERTH

## Tuesday.

- 12.30 p.m.—Time in.
- 12.45 p.m.—First Local News Bulletin. Market Reports; Cables.
- 1.0 p.m.—Time Signal from Perth Observatory.
- 1.1 p.m.—Weather News supplied by the Meteorological Bureau of Western Australia.
- 1.2 p.m.—STUDIO QUINTETTE.
- 1.25 p.m.—Close Down.
- 1.30 p.m.—Time in.
- 1.35 p.m.—Musical Programme including pianoforte selections by MR. LESLIE JUDSON.
- 1.4 p.m.—STUDIO TRIO.
- 1.45 p.m.—Close Down.
- 1.55 p.m.—Time in.
- 2.0 p.m.—Station for Tivy Tivy, by Auntie Kate.
- 2.5 p.m.—Globe Leslie will talk to the Box.
- 2.75 p.m.—Stock and Share Intelligence; Market Reports; Cables; News supplied by conveyer of "The West Australian" Newspaper Coy.
- 4.15 p.m.—Talk.
- 4.5 p.m.—Time Signal from Perth Observatory.
- 6.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
- 6.2 p.m.—BAND NIGHT. Concert by the Perth City Band. Conductor, Mr. W. A. HALVORSEN.
- 10.0 p.m.—Second Local News Bulletin supplied by conveyer of "The Daily News" Newspaper Coy.
- 10.30 p.m.—Close Down.

Wednes., April 27  
2FC, SYDNEY

## MIDDAY SESSION.

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

- 1.25 p.m.—Official weather forecast, rainfall, temperature, astronomical observations, shipping intelligence, mail services.
- 12.15 p.m.—Studio music.
- 12.25 p.m.—Summary of "Sydney Morning Herald" news service and cables.
- Buxty wireless news.
- 12.35 p.m.—Studio music.
- 12.45 p.m.—Miss Annie Sadler, mezzo: "Goes you know" (Brake).
- 1 p.m.—"Big Ben" Weather intelligence.
- 1.15 p.m.—Evening News' midday news service.
- Process' Distributing Society's Report.
- 1.20 p.m.—Studio music.
- 1.28 p.m.—Stock Exchange, second call.
- 1.30 p.m.—Marching music for school children.
- 1.40 p.m.—Miss Annie Sadler, mezzo: "The Beat of a Frivolous Heart" (Phillips).
- 1.45 p.m.—Studio music.
- 2 p.m.—"Big Ben" Close down.

## AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
- 3.15 p.m.—A pianoforte reproduction on the "Edison" studio piano.
- 3.15 p.m.—Miss Hilda Nelson, mezzo: "But Why" (Lugnet).
- 3.20 p.m.—Popular recital.
- 3.25 p.m.—Marching music for school children.
- 3.30 p.m.—FROM FARMER'S TEA ROOMS: Miss Florence Grant, soprano: "April Morn" (Butter).
- 3.45 p.m.—Studio music. A talk on Home Cooking and Recipes by Miss Ruth Ford.
- 4 p.m.—"Big Ben."
- FROM FARMER'S TEA ROOMS: Miss Peggy Dunbar, contralto: "Wondering Why" (Conynghy Clarke).
- 4.0 p.m.—FROM THE STUDIO: Popular recital.
- 4.10 p.m.—Miss Hilda Nelson, mezzo: "In Nerley Wood" (Hrabe).
- 4.15 p.m.—A pianoforte reproduction.
- 4.10 p.m.—FROM FARMER'S TEA ROOMS: Miss Peggy Dunbar, contralto: "The Gates of Arady" (James).
- 4.25 p.m.—Studio music.
- 4.30 p.m.—A Reading.
- 4.35 p.m.—FROM FARMER'S TEA ROOMS: Miss Peggy Dunbar, contralto: "Life is a Caravan" (Ed. Busset).
- 4.45 p.m.—Stock Exchange, third call.
- 4.50 p.m.—Studio music.
- 5 p.m.—"Big Ben" Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—The "Hello Ma!" talks to the children.
- 6.30 p.m.—A serial story for the older ones.
- 6.45 p.m.—Dinner hour.
- 7.0 p.m.—"Big Ben" LATE SPORTING NEWS.
- 7.10 p.m.—Bulgery's market reports (wheat, wheat and stock).
- 7.15 p.m.—Fruit and vegetable markets.
- 7.20 p.m.—Shipping intelligence and shipping intelligence.
- 7.25 p.m.—Late "Evening News" news service.
- 7.30 p.m.—EVENING SESSION.
- 7.50 p.m.—Programme, announcements and studio music.
- 8 p.m.—"Big Ben."
- FROM THE LYRIC WINTER GARDEN THEATRE, GEORGE STREET, SYDNEY: Items by Jimmy Elkin's Orchestra with the Grand Organ.
- 8.15 p.m.—FROM THE SYDNEY TOWN HALL: Items from the FAREWELL CONCERT tendered to MISS ILIJAN FROST, well-known Organist, prior to her departure for Europe.
- The following artists will appear: Madame Vera Thomas, soprano; Madame Emily Marks, soprano; Madame Elsie Bette, contralto; piano, Mr. Robert Harter, tenor; Mr. Henri Stael, violin; Mr. Wilfred Thomas, bass; Miss Virginia Bassett, contralto; Mr. H. R. Albee, mezzo; Miss Esther Rabb, pianist; Mr. Lawrence Campbell, accompanist; Mr. W. Caspers, trombonist.
- MISS ILIJAN FROST will play: (a) "The Trecenta in F" (Bach).

# The Best Sets Deserve The Best Parts

STAND 37  
EXHIBITIONSTAND 37  
EXHIBITION

## "Advance" Radio Parts Lead in Quality and Prices.

Since the inception of our business it has been our policy to give better parts for less money, and to increase our markets and output in order to reduce our selling cost to the buying public. This has been done now in numerous cases. The popular demand for our goods has forced us to make a big increase in our plant, and also employ more hands. You get the best at lowest prices, and are supporting an ever-growing Australian industry.



Rear Panel Mounting  
Vernier Dial  
Price, 7/6

The Advance Rear Panel Mounting Vernier Dial has been designed to eliminate that clumsy dial that has ruined the appearance of good sets in the past. Now a neat high finished bezel with only a black knob gives the set a professional appearance. Bring your old set up to date, and install this Rear Panel Dial. Supplied with neat bezel finished in gold, silver or bronze. Stripping template supplied—you can't go wrong. In ordering, specify bezel finish required.



The New  
"Advance"  
CENTRALIGN  
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00025—12/ ,00035—  
12/ ,0006—12/ 6

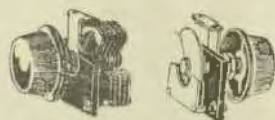


The new "Advance" "Centralign" Condenser has been introduced so that no crowding of spating occurs on any portion of the dial reading, and retains correct separation on the middle of the scale. Constructed in a one-piece aluminium being most rigid, non-corrosive brass plates with a minimum of dielectrically impure stuff designed for multiple mounting and turns either to the left or right, having the same Centralign fitting. The above features make the Advance "Centralign" true in name, advanced ahead of the times.

### "Advance" Audio Frequency Transformer

This Transformer has been designed to build up the volume of detected broadcast signals to a true reproduction of the transmission, to increase the strength of signals without distorting the natural quality of tone. Each individual transformer is carefully inspected and tested at the factory before being packed, and is guaranteed to be electrically and mechanically perfect. Made in pairs of

2-4, 3-1, 5-1 . . . Price 17/6



### 'MIDGET and NEUTRALIZING CONDENSERS.

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

The Neutralizing Condenser of the same construction as above, complete with base, panel, mounting and bakelite knob. Correct capacity for neutralizing and balancing condensers.

Midget 11 plate — 5/6; Neutralizer 3 plate 4/6



### UX or UV Porcelain Tube Sockets

The Advance Low Loss Porcelain Tube Sockets has been designed for its perfect insulation, and for use with either UX or UV type of tubes. Spring contacts of aluminum bronze with side edge and bottom contacts, thus insuring the perfecting of contacts. The porcelain has insures that perfect insulation that is ideal for radio purposes.

Price 2/6



### Improved Straight Line FREQUENCY CONDENSER

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

### PRICES:

00025, 0/6  
00035, 10/  
0006, 10/6

Rheostats  
8, 10, 20 and  
30 ohms—  
1/3



Potentiometers  
200 and  
400 ohms.  
2/6

### Rheostats and Potentiometers

This metal shielded air cooled rheostat is of the same quality as all other Advance products. These are of size contact, and a perfect ratio once built. All that is desirable in the rheostat is embodied in this unit.

The Potentiometers have the same features and characteristics as the rheostats, made in 200 and 400 ohms.



### Knife Switch with Acceptor

A necessary adjunct in all receivers, being tested by the Melbourne University, and passed by the Fire Underwriters' Association. It embodies aerial and earthing switch, with lightning arrestor.

Price 2/2.



### Lightning Arrestor, 2/6

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

(b) "An Elizabethan Jidv" (Noble).  
 (c) "Variation de Concert" (Bonnet).  
 (d) "The Storm Fantasia" (Lemmens) (by request).

8.42 p.m.—FROM THE STUDIO:  
 A talk by Mr. Gratian Smith: Book Reviews.  
 8.52 p.m.—Miss Peggy Post, soloists.  
 9 p.m.—"Big Ben."  
 Mr. Gladstone Bell, vocalist.  
 "Annual Concerts in A Minor" (Cather-metal).

9.10 p.m.—FROM THE SYDNEY TOWN HALL: Items from the second part of the Farwell Concert (conducted by Miss Lillian Farnell).

9.40 p.m.—FROM THE STUDIO:  
 Mr. Laurence Hallett, baritone, in a regular number.

9.44 p.m.—Mr. Gladstone Bell, vocalist.  
 "By the Fountain" (Hastuhl).

9.50 p.m.—Miss Peggy Post, soloists.

9.54 p.m.—FROM THE LYRIC WINTER GARDEN THEATRE, GEORGE STREET, SYDNEY.  
 Jimmy Skelton's Orchestra with the Grand Organ.

10.5 p.m.—FROM THE STUDIO:  
 Mr. Laurence Hallett, baritone.  
 10.10 p.m.—Miss Peggy Post, soloists.  
 10.35 p.m.—FROM THE LYRIC WINTER GARDEN THEATRE, GEORGE STREET, SYDNEY.  
 Jimmy Skelton's Orchestra with the Grand Organ.

10.50 p.m.—FROM THE STUDIO:  
 Celebrity records. Late news and announcements.

10.55 p.m.—FROM THE WENTWORTH CAPE, CHURCH HILL, SYDNEY:  
 Items by the Wentworth Symphonic Dance Orchestra under the baton of Dr. Sydney Simpson.

11 p.m.—"Big Ben." National Anthem.  
 Close down.

## 2BL, SYDNEY

### Wednesday.

12 noon.—G.P.O. Clock and Chimes.  
 12.1 p.m.—Special concert forecast and weather report.  
 12.3 p.m.—Mails and shipping, and movements of important ships.  
 12.10 p.m.—Sydney Stock Exchange calls.  
 12.8 p.m.—Radio in call by Wireless.  
 12.20 p.m.—Musical programme from the Studio.  
 12.25 p.m.—Fruit market report.  
 12.23 p.m.—Vegetable market report.  
 12.22 p.m.—London metal market report.  
 12.23 p.m.—Dairy and farm produce market report.  
 12.27 p.m.—Racing results.  
 12.30 p.m.—G.P.O. Clock and Chimes.  
 12.31 p.m.—Musical programmes from the Studio.  
 12.40 p.m.—Sporting information ("Sun").  
 12.43 p.m.—Musical programmes from the Studio.  
 1 p.m.—G.P.O. Clock and Chimes.  
 1.1 p.m.—Pianoforte lecture serial, by Arnold H. Nide, in the Fine Art Gallery, Anthony Horsford.  
 1.40 p.m.—Musical programme from the Studio.  
 1.50 p.m.—News from the "Sun."  
 2 p.m.—G.P.O. Clock and Chimes.  
 Having information broadcast immediately after each race by courtesy of the "Sun."  
 2.1 p.m.—Talk to children and special entertainment for children in hospital.  
 2.10 p.m.—Musical programme from the Studio.  
 2.30 p.m.—Women's Session. Conducted by Mrs. Jordan.  
 Talk on "Hoekery" by Miss Gwen Varier, Broadcasters' women's sports authority.  
 Special Notes—Replies to correspondents.  
 Talk by Dr. Morris.

3 p.m.—G.P.O. Clock and Chimes.  
 3.1 p.m.—Musical programme from the Studio.  
 3.10 p.m.—G.P.O. Clock and Chimes.  
 3.41 p.m.—Talk to the great composers, illustrated on Stravinsky Piano.  
 3.50 p.m.—News from the "Sun."  
 4 p.m.—G.P.O. Clock and Chimes.  
 4.1 p.m.—Musical programme from the Studio.  
 4.15 p.m.—Serial Story.  
 4.50 p.m.—G.P.O. Clock and Chimes.  
 4.51 p.m.—Musical programme from the Studio.  
 4.41 p.m.—News from "Sun."  
 4.50 p.m.—Racing results.  
 4.52 p.m.—Broadcasters' Distributing Society's fruit and vegetable market report.  
 4.54 p.m.—Resume of night's programme.  
 4.58 p.m.—Announcements.  
 5 p.m.—Special concert forecast.  
 5 p.m.—G.P.O. Clock and Chimes.  
 Close down.

### EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes.  
 5.45 p.m.—Daddy Long Legs and the Ladies.  
 5.49 p.m.—Musical programme from the Studio.

### SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and Chimes.  
 Australian Mercantile, Land, and Finance Co's report.  
 Weather report and forecast by courtesy of Mr. Maro.  
 Broadcasters' Distributing Society's fruit and vegetable market report.  
 Stock Exchange reports.  
 Grain and fodder report ("Sun").  
 Dairy produce reports ("Sun").  
 7.15 p.m.—Country news from the "Sun."  
 7.30 p.m.—Talk by a member of St. John's Ambulance Brigade.  
 8 p.m.—G.P.O. Clock and Chimes.  
 Broadcasters' Vocal Chorus.  
 8.5 p.m.—Mr. Norman Tompkins, baritone.  
 8.10 p.m.—Mr. Stan Cartmel, comedian.  
 8.15 p.m.—Miss Daisy Hooker, contralto.  
 8.24 p.m.—Mr. Alfred Young, operatic tenor, with his piano-accompanist.  
 8.30 p.m.—Miss Florence Little, soloists.  
 8.40 p.m.—Broadcasters' Trio.  
 8.48 p.m.—Resume of following day's programme.  
 9 p.m.—G.P.O. Clock and Chimes.  
 Weather report and forecast by courtesy of Mr. C. J. Maro, Government Meteorologist.  
 9.2 p.m.—Mr. David Smith, baritone.  
 9.3 p.m.—Mr. Ted Stanley, comedian.  
 9.45 p.m.—Duet, Miss Daisy Hooker and Mr. Norman Tompkins.  
 9.50 p.m.—Broadcasters' Trio.  
 9.56 p.m.—Mr. Norman Tompkins.  
 9.54 p.m.—Miss Florence Little.  
 9.41 p.m.—Mr. David Smith.  
 9.44 p.m.—Mr. Stan Cartmel.  
 9.55 p.m.—Broadcasters' Trio.  
 10.2 p.m.—Miss Daisy Hooker.  
 10.3 p.m.—Mr. Ted Stanley.  
 10.15 p.m.—"The Ambassadors' Dance Band broadcast from the ballroom of the Ambassadors. During the intervals between dances, "Sun" news will be broadcast.  
 11 p.m.—G.P.O. Clock and Chimes.  
 National Anthem.

## 2GB, SYDNEY

### Wednesday.

9 a.m.—Music.  
 9.5 a.m.—Cherico talk by Mr. Z. K. Powell.  
 9.15 p.m.—Music.  
 9.25 a.m.—Vocational Class.  
 9.40 a.m.—Mails.  
 9.45 a.m.—Health Talk and Drive.  
 10 a.m.—Close down.

### AFTERNOON SESSION.

3.30 p.m.—Music.  
 3.31 p.m.—Talk.  
 3.52 p.m.—Music.  
 4.17 p.m.—Talk.  
 4.22 p.m.—Music.  
 4.50 p.m.—Close down.

### EVENING SESSION.

6.50 p.m.—Children's Session, conducted by Miss How. (Rare).  
 7 p.m.—Music.  
 7.15 p.m.—Talk.  
 7.16 p.m.—Music.  
 7.20 p.m.—Special Talk by the Rt. Rev. G. B. Aradine.  
 7.30 p.m.—Music.  
 7.35 p.m.—Tells.  
 7.55 p.m.—Duet for two voices with piano accompaniment, Duo Scotti, Monica Harbord, Ada Brown.  
 8 p.m.—Address by Professor Ernest Wood.  
 8.10 p.m.—Song by Ethel Jones.  
 8.1 p.m.—

8.51 a.m.—Vocal Solos by Monica Harbord.  
 8.52 p.m.—2GB Vocal Quartette:  
 1 "Bill Smiling Mori."  
 2 "The Merry Wander."  
 3 "The Merry Wander."  
 4 Ethel Jones, Soloist (Tenor), Thomas Hall, (Soprano) (Horsford).  
 5.10 p.m.—Duet for two voices with piano accompaniment, Duo Scotti, Monica Harbord, Break.  
 5.35 p.m.—Announcements.  
 9 p.m.—Special Talk.  
 9.15 p.m.—Song by Ethel Jones.  
 9.1 p.m.—

9.45 p.m.—Duet for two voices with piano accompaniment, Duo Scotti, Monica Harbord, Ada Brown.  
 9.50 p.m.—Piano Solo by Ada Brown.  
 9.44 p.m.—2GB Vocal Quartette:  
 1 "The Merry Wander."  
 2 "A Happy New Year to you all."  
 3 "Willie's Courtship."  
 4.15 p.m.—Cherico's Talk.  
 10 p.m.—Close down.

## 3LO, MELBOURNE

Wednesday.  
 HUGHAM'S BERNADERS.  
 MAILE BRENNER, Soprano.  
 AGNES FORTUNE, Pianist.  
 PAUL DE RAYONNE, Tenor.  
 FRANKLIN STONHAM, Bassist.  
 1 THE STUDIO ORCHESTRA.  
 Accompanied by ALFRED ANDREW.  
 Accompanied by AGNES FORTUNE.  
 11 noon.—Five Special, British Official Wireless News from Rugby, Boston and The Australia Press Association Cables, Stock Exchange information, "Argus" and "Herald" News services.  
 1.30 p.m.—HUGHAM'S BERNADERS:  
 Quartette (Horsford).  
 "I Don't Like being Tickled by a Fly."  
 EDITH HUGHAM, DOLLY BURDETT, BESS MILLAR, HELEN HUGHAM.  
 Contralto Solo, "Christina Lovers."  
 DOLLY BURDETT.  
 STUDIO ORCHESTRA:  
 "Items from South America." Part 2. (Contd.).  
 Topical Quartette:  
 "We Wonder Why" (new version).  
 THE BERNADIER QUARTETTE.  
 New Solo, "Plymouth Har."  
 BESS MILLAR.  
 STUDIO ORCHESTRA:  
 "Items from South America." Part 1. (Contd.).  
 Quartette, "Carolina."  
 THE BERNADIER QUARTETTE.  
 STUDIO ORCHESTRA.  
 1.50 p.m.—STUDIO ORCHESTRA:  
 "Little Suite Moderne" (Rossa).  
 1 p.m.—MARIE BRENNER, Soprano.  
 "Love is made to make in pain" (German).  
 "Spring dressed a Song" (English).



## Reasons why you should USE VOLTON BATTERIES



**22/6**  
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6. Because the following Practical Radio Experts of Sydney stock and recommend their use—Ask their advice.

Australian Wireless (Radiar)  
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Economic Radio Stores.  
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Hamilton & Baker.  
Howell's Radio.

Keogh Radio.  
Maling, W., and Son.  
Mick Simmons, Ltd.  
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Swains, Ltd.  
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Wallace, Miss F. V.  
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Farmer & Co., Ltd.



### VOLTON VOLTMETERS

*Double Range Wireless Volt Meters—English Make*

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

**PRICE 12/6 EACH**

**Volton Sub Panel Brackets at 3/6 per pair.**

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## Face Values

Until a month ago Brown bored me to tears with his insistence that he could always tell a man's character by his face. When Brown's carner recently disappeared, I asked my friend what sort of a face had got him the job. Now we don't speak!

Talking of faces, reminds me of a true story told of a very plain but extremely brilliant Australian surgeon, who had become world-famous by reason of his success in rebuilding faces shattered by shell or bullet.

"Who's the old bloke?" one soldier in hospital asked another as the surgeon passed.

"Oh, he's the man that puts new faces on Diggers!"

"Cripes! Why doesn't he change his own?"

Of course, we all make the same mistake as Brown. For instance, nine out of ten unhappy men chose their wives on the face value!

A squint, a tooth-brush moustache, a turned up nose, or a toothache, will make any man resemble a criminal. If I had to cash in on my own face, I could not buy a tram ticket with the proceeds.

It's the same thing with dogs. You will see a bulldog, with a face like a motor accident, grinning amiably at a baby sucking pums in it—while a sweet-looking terrier will snap a bit out of your calf.

And when it comes to radio batteries there is only one I know which lives up to its face—the handsome glass-celled rechargeable Philco.

Moreover, the Philco has a special value and by means of an exclusive feature called "visible charge indicators" you can tell in an instant the exact state of the inside—fully charged, half charged or empty. There is no need of a messy hydrometer.

By the way, what a grand thing for the police if they could apply this to drunken clients—

"Look at his face, your Honor. He's fully charged!"

- 1.7 p.m.—AGNES FORTUNE, Piano:  
"Prelude" (Chopin).  
1.14 p.m.—INTERLUDE: Weather report.  
1.20 p.m.—PAUL DE RAYONNE, Tenor:  
"You're hand is frozen" (Puccini).  
"The Song of the Valga Boxman" (Brombe)  
1.27 p.m.—STUDIO ORCHESTRA:  
Selection, "Pazzi" (Donizetti).  
1.31 p.m.—MARIO BRENNER, Soprano:  
"Drift Down" (Bumshof).  
In Summer Fields" (Brahms).  
1.44 p.m.—FRANKLIN STONHAM, Clarinet:  
"Resolution" (Boccherini).  
"Spring's Awakening" (Bach).  
1.52 p.m.—STUDIO ORCHESTRA:  
"Polish Mazurka" (Aronson).  
2. p.m.—"Clear down."  
Results of the Harcus Marsh Races will be given at their time to hand.

### AFTERNOON SESSION.

- Speaker: CAPTAIN D. MACLEAN.  
EUGENIE DUGGAN.  
DOROTHY ROXBURGH, Violin.  
HUXHAM'S SERENADES.  
MILLIE CRANE, Comedian.  
WALTER SMITH, Cornet.  
WIN AND WINDLE.  
AGNES FORTUNE, Pianist.  
THE STUDIO ORCHESTRA.  
Announcer: ALFRED ANDREW.  
Accompanist: AGNES FORTUNE.  
"HOT FOUR!"  
2. p.m.—STUDIO ORCHESTRA:  
Woodland Sketches, Part I (MacDowell).  
3.10 p.m.—EUGENIE DUGGAN:  
"The Knight's Toast."  
"The Goodbye at Gailhill."  
3.20 p.m.—DOROTHY ROXBURGH, Violin:  
Dance Virtuoso.  
3.25 p.m.—HUXHAM'S SERENADES:  
Old Court Harpists—"The Golden Ringers."  
EDITH HUXHAM, DOLLY BURETT,  
KENN MILLAR, HUGH HUXHAM.  
Cavalier Song, "When an was Young."  
DOLLY BURETT.  
C. RICHARD CRUGG, Flute:  
"Holen" (Poussart).  
Quartette, "Down yet cry."  
THE SERENADER QUARTETTE.  
Bert Solo, "You-man of England."  
KENN MILLAR.  
STUDIO ORCHESTRA:  
"Romance" (Sibelius).  
Operatic Quartette from "The Bohemian Girl" (Bailfe).  
THE SERENADER QUARTETTE.  
3.45 p.m.—STUDIO ORCHESTRA:  
Woodland Sketches, Part 2 (MacDowell).  
3.55 p.m.—NELL CRANE, Comedian:  
"Somehow Somebody is Waiting for Me" (Lawrence).  
"Woods" (Almonson).  
4.1 p.m.—WALTER SMITH, Cornet:  
"The Last Day of Summer."  
4.10 p.m.—CAPTAIN D. MACLEAN:  
The King's Road Race into Paradise.  
4.25 p.m.—STUDIO ORCHESTRA:  
"Humoresque" (Brahms).  
4.30 p.m.—WIN AND WINDLE:  
"I Want To Be a Lady."  
4.40 p.m.—AGNES FORTUNE, Piano:  
"Waltz" (Chopin).  
4.45 p.m.—"Herald" news service. Stock Exchange information.  
5 p.m.—"Clear down."

### EVENING SESSION.

- 5.40 p.m.—CHILDREN'S HOUR. Answers to Letters and Birthday Greetings.  
5.55 p.m.—EUGENIE DUGGAN has a special little poem to recite to the children.  
6.2 p.m.—MARY, MARY, QUITE CONTRARY—story for the latest ones:  
"The Crane and the Duetty."  
6.15 p.m.—RUSSELL GALLOWAY, Tenor:  
Will sing two little songs for the children.  
6.20 p.m.—MARY, MARY, QUITE CONTRARY—Story for the older children.  
"Grass Rabbit in Waiting."  
6.35 p.m.—"Argus" and "Herald" news services. Weather and Aerial Mail information by the Australian Aerial Services, Ltd.  
6.4 p.m.—Stock Exchange information. Over-seas shipping.  
6.42 p.m.—Fish Market reports by J. B. Borrett, Ltd.  
6.58 p.m.—Market reports by the Victorian Producers' Representative Co., Ltd., Newmarket, and sales by Messrs. Green, Day, Hume, John, Cliff, Dairy Producers, Potatoes and Onions. Fruit Market reports by the Wholesale Fruit Growers' Association, compiled by "The Fruit World," exclusive to 2LQ.

### NIGHT SESSION.

- 7.55 p.m.—"Herald" news.  
8.10 p.m.—CAPTAIN PETER:  
"Boys, Who and Otherwise."  
8.20 p.m.—DR BROOKE NICHOLLS:  
"The Mysterious Milton Bird."  
MURIEL STAVES, Vocalist.  
ENTHUSIAST OF THE SOULS OF MORTALS.  
8.15 p.m.—MALVERN TRAMWAYS BAND:  
March, "The Cavalry."  
8.25 p.m.—CELEBRITY FOUR, under the direction of WM G. JAMES:  
Introduction, Act 4, "La Boheme."  
MR. HORACE BROWNE.  
Solo, and Act, from "Boiseme" (Handel).  
MISS GERTRUDE HUTTON.  
Finale, Act 1, "Madam Butterfly" (Puccini).  
MILIE, SAFETY KENNA.  
MR. HORACE WHITE.  
Sextette, "Lata" (Donizetti).  
CELEBRITY FOUR.  
8.40 p.m.—MR. WM G. JAMES:  
Pianoforte Recital.  
8.55 p.m.—MALVERN TRAMWAYS BAND:  
Selection, "Maid of the Mountains."  
9.5 p.m.—"THE FUTURISTS," Present their Radio Recusette;  
"BROADCAST HITS."  
"THE FUTURISTS" introduce themselves and sing an Opening Chorus.  
IRA VANDA and the Company will sing:  
"A Bird's Eye View of My Old Kentucky Home."  
"THE FUTURISTS" join G. W. DESMOND in a Recitation.  
IRAN VANDA with GUY DAWSON, that "You Never Know."  
An up-to-the-minute Sketchette.  
"WINNIE WINNIE."  
Winnie Winnetka, IRA VANDA.  
Walter Winnetka, GUY W. DESMOND.  
"Note:—The action of this Sketchette takes place in the Dining-Room of a Cafe and every word spoken by the characters commences with the letter 'W.'  
DESMOND DESMOND will now dismount on love and dance a few steps.  
IRA VANDA says that "She would if she could, but she's not of the sort."  
These Giddy Chatter, DESSY and CYRIL have a few announcements to make.  
FINALE by the Company:  
"You're Hand is Frozen."  
9.35 p.m.—Description of the LORD MAYOR'S BALL in honor of the DUKE and the DUCHESS OF YORK, transmitted from the Exhibition, Blackpool.  
Wishes:—MAC MONDAY.  
10 p.m.—MALVERN TRAMWAYS BAND:  
Overture, "Raymond."  
10.15 p.m.—"Argus" news service.  
British official wireless news from Rugby.

- 10.20 p.m.—NEIL CRANE comedienne:  
 "There's a girl in Moorland" (Lawrence).  
 Child impression, "Has any seen my—"  
 10.27 p.m.—Dance Music transmitted from the  
 LORD MAYOR'S HALL, Exhibition Build-  
 ing.  
 10.45 p.m.—GRACE AND KEATS:  
 "Toretta, Piero and a Piano"  
 10.52 p.m.—Meteorological information,  
 Announcements.  
 11 p.m.—OUR GREAT THOUGHT:  
 "The burden becomes light, which is cheer-  
 fully borne."—Ovid.  
 11.1 p.m.—JOE ARONSON AND HIS SYNCOP-  
 ATING SYMPHONISTS:  
 "Idolizing" (West).  
 "Nobody but you" (O'Haron).  
 "There's a Boatman on the Volga" (Eagan).  
 "That's why I Love You" (Donaldson).  
 "Love Bound" (Rupp).  
 "Oh, Miss Hannah" (Lempen).  
 "Crying for the Moon" (Conley).  
 "Me Too, Haha, Ho-ho" (Woods).  
 "The one to your Aaron Strains" (Shay).  
 "Dog on the Piano" (Shapiro).  
 "Blame it On the Waltz" (Kaha).  
 "Call Me Early, Early in the Morning"  
 (Ruh).  
 "Lonesome and Sorry" (Davis).  
 "While the Sahara Sings" (Nicolo).  
 11.40 p.m.—Close down.

4QG, BRISBANE

Wednesday.

EARLY MORNING SESSION.

- 5.30 a.m.—Phonod Culture Station.  
 7.0 a.m.—Close Down.

MIDDAY SESSION.

- 1.0 p.m.—Market Reports; Weather Informa-  
 tion; News Service supplied by "The Daily  
 Mail" and "The Daily Standard."  
 1.30 p.m.—From the U.P.O.: Lunch Hour  
 Music played by the Postal Institute  
 Orchestra.  
 1.55 p.m.—From the Observatory: Standard  
 Time Signal.  
 2.0 p.m.—Close Down.

AFTERNOON SESSION.

- 3.30 p.m.—From Eitel Carito: Afternoon  
 Tea Music from the Lovores, played by Hotel  
 Carlton Symphony Orchestra.  
 4.15 p.m.—From the State: News Service  
 supplied by "The Telegraph."  
 4.30 p.m.—Close Down.

EARLY EVENING SESSION.

- 6.0 p.m.—"Daily Standard" News, Announce-  
 ments.  
 6.15 p.m.—The Children's Hour—Stories by  
 "Little Miss Brisbane."  
 7.0 p.m.—Market Reports; Stock Reports.  
 7.30 p.m.—Weather News; Announcements.  
 7.40 p.m.—Standard Time Signal.  
 8.45 p.m.—Lecture, "X-Ray for the Lay-  
 man"—the last of a series of four—Mr.  
 E. B. Tugar.

NIGHT SESSION.

THE SCOTTISH ENTERTAINERS.

- 8.0 p.m.—Overture, "The Fugitives" (Corbin),  
 the Studio Orchestra (conductor, Mr. A.  
 E. Featherstone); contralto solo, "Sleazy  
 Malloy" (Ginn) (Kamitz); Miss Elida  
 Cooper; a thought for to-night, Will H.  
 Gibber, "The Worth of a Man"; Hawaiian  
 instrumentalists, "The Gallants of England"  
 by "Rabbit"; monologue, "Janis" (Scott-  
 Garry); Miss Agnes Pinney; Scotch comic,  
 "I Love to be a Sailor" by "Jack"; memo-  
 rie, "Gratitude" (Schonfeld); the Studio  
 Orchestra; tenor solo, "Your Dear Brown  
 Eyes," by "Tam"; soprano solo, selected,  
 Miss Madge Gulleit; organ solo, selected,  
 Mrs. Edith Fleet; vocal duet, "The Lovers";  
 by "Pah" and "Tam"; Hawaiian instru-  
 mentalists, the Biscoe and Gardner Duo;  
 soprano solo, "One Fine Day"—"Madame  
 Butterfly" (Puccini); Miss Elison McLennan;  
 light operetta selection, "La Persichula"  
 (Offenbach); the Studio Orchestra.

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- Ever Ready, WP40, 12/6; XP40, 21/-; WP60, 18/-; XP60, 31/6; No. 126, 2/9.

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8.0 p.m.—Metropolitan Weather Forecast; Contralto solo, "Sandy O' Don" (Sanderson); King Hillis, Contralto, Scotch comic, "Nix When You Love a Wise Lassie," by Jack; comedienne, "The Wearing of the Bree" (Frost); Miss Agnes Hynes, soprano solo, "The Roman Lane" by Tom; letters music, "Buckley" (Totani); the Radio Orchestra; orchestra solo, selected, Miss Madge (Mills); vocal duet, "Lionheart Walsh," by Tom and Bob; closing, "Tune in Now" (Frost); the Daily Mail News; Weather News; Close Down.

## 6WF, PERTH

Wednesday.

12.30 p.m.—Tune In.  
12.35 p.m.—First Local News Bulletin (Market Reports) Cable.  
1.0 p.m.—Time Signal from Perth, Oliver relayed.  
1.5 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.  
1.5 p.m.—STUDIO SEPTETTE.  
2.0 p.m.—Close Down.  
2.30 p.m.—Tune In.  
2.35 p.m.—Musical Programme.  
4.0 p.m.—STUDIO TRIO.  
4.30 p.m.—Close Down.  
4.40 p.m.—Tune In.  
5.00 p.m.—Children's Playette; "Daddy Tom's Cabin," by UNCLE DUFFY, with Auntie Kate and Evelyn, and URSULA HENRY, Leslie, Peter and Jeff.  
5.30 p.m.—Stock and Share Intelligence; Market Reports; Cable; News supplied by courtesy of "The West Australian" News-sheet Co.  
7.40 p.m.—Talk.  
8.0 p.m.—Time Signal from Perth Observer.  
8.10 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.  
8.5 p.m.—VARIETY Musical Programme, including Artistic.  
10.0 p.m.—Second Local News Bulletin supplied by courtesy of "The Daily News" Newspaper Co.  
10.30 p.m.—Close Down.

## Thursday, April 28 2FC, SYDNEY

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.  
12.15 p.m.—Stock Exchange, first call.  
12.25 p.m.—Official weather forecast rainfall, temperatures, astronomical phenomena, shipping intelligence, mail services.  
12.45 p.m.—Studio music.  
12.55 p.m.—Summary of "Sydney Morning Herald" news service and cables.  
1.30 p.m.—Studio music.  
1.40 p.m.—Miss Irene Duncan, soprano; "The Hallowed Hour" (Wood).  
1.50 p.m.—Studio music.  
2.00 p.m.—"Big Ben," Weather Intelligence.  
2.3 p.m.—"Evening News" midday news service.  
Professors' Distributing Societies' Report.  
2.35 p.m.—Studio music.  
2.45 p.m.—Stock Exchange.  
2.50 p.m.—Marching music for school children.  
3.00 p.m.—Miss Irene Duncan, soprano; "Pale Moon" (Logan).  
3.15 p.m.—Studio music.  
3.30 p.m.—Last minute sporting information by the 2FC Racing Commissioner.  
Close down.

AFTERNOON SESSION.

3.40 p.m.—"Big Ben" and announcements.  
3.5 p.m.—A piano-forte reproduction on the "Higgins" player piano.

3.15 p.m.—A talk.  
3.30 p.m.—Miss Mervil Holliday, contralto.  
3.35 p.m.—A popular record.  
3.40 p.m.—Marching music for the school children.  
3.45 p.m.—FROM FARMER'S TEA ROOMS: MISS NANCY MARLEY CONTRALTO: "SWEETEST SONG" (JAMES).  
3.45 p.m.—Market items from the studio.  
3.50 p.m.—"Big Ben"  
FROM FARMER'S TEA ROOMS: Miss Jeanette Rooney, contralto: "Patting a Boy's Head."  
3.5 p.m.—FROM THE STUDIO: Miss Mervil Holliday, contralto: "Silent Noon" (Williams).  
4.10 p.m.—A Reading.  
4.20 p.m.—FROM FARMER'S TEA ROOMS: Miss Nancy Marley, contralto: "If my little name" (de Regio).  
4.25 p.m.—Studio music.  
4.30 p.m.—FROM FARMER'S TEA ROOMS: Miss Jeanette Rooney, contralto: "How many a lonely caravan" (Foden).  
4.35 p.m.—Some popular records from the studio, 2FC Exchange, dated call.  
4.40 p.m.—"Big Ben" Close down.  
4.45 p.m.—EARLY EVENING SESSION.  
4.50 p.m.—The "Hello Man" talks to the children.  
4.55 p.m.—A serial story for the older ones.  
5.00 p.m.—"Big Ben" and sports.  
5.10 p.m.—"Big Ben." Late sporting information.  
5.15 p.m.—"Big Ben" market reports (wood, sheet and steel).  
5.18 p.m.—Fruit and vegetable markets.  
5.20 p.m.—Weather and shipping intelligence.  
"Week Economist".  
5.30 p.m.—Late "Evening News" news service.

NOONLY SESSION.

5.45 p.m.—"The Chimes and progressive announcements.  
5.50 p.m.—The Anniversary of the Landing of Captain Cook.  
6.0 p.m.—"Big Ben." FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY: (Dance by the Orchestra).  
6.10 p.m.—FROM THE STUDIO: Miss Virginia Bassotti, contralto.  
6.15 p.m.—Mr. George Walsh, comedian.  
6.18 p.m.—Mr. Herbert Furze, tenor horn: "While the Heart is Joy Revealing" (Hedlin).  
6.22 p.m.—Mr. Andrew Higinson and Miss Todd Davis in a musical comedy set hour.  
6.24 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY: Orchestral items.  
6.25 p.m.—FROM THE STUDIO: Mr. George Walsh, comedian.  
6.28 p.m.—Miss Virginia Bassotti, contralto.  
6.32 p.m.—Mr. Herbert Furze, tenor horn: "Lullaby No. Four" (de La Traviata) (Verdi).  
6.37 p.m.—Mr. Robert Turner, entertainer: (a) "I Forge" (Lew). (b) "The Differences" (Raffa).  
6.45 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY: Orchestral items.  
6.50 p.m.—FROM THE STUDIO: Miss Virginia Bassotti, contralto.  
6.55 p.m.—Woodlumscho, the Australian Zouave, will continue his stories of his experiences in Africa.  
6.58 p.m.—Mr. Andrew Higinson and Miss Todd Davis in comic couple memories.  
6.58 p.m.—Mr. Herbert Furze, tenor horn: "Basso Ten Frazzato" (Gianotti).  
6.58 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY: Orchestral items.  
7.0 p.m.—FROM THE STUDIO: Mr. George Walsh, comedian.  
7.04 p.m.—Mr. James Donnelly, tenor.  
7.08 p.m.—FROM THE WESTWORTH THEATRE: The Westworth Symphony Dance Orchestra, conducted by Mr. Frederick Loughton, in popular numbers.  
7.15 p.m.—FROM THE STUDIO: Mr. Robert Turner, entertainer: (a) "Battle O' (Shojo Peterson). (b) "A Boy Sees a Patrol Song" (Kipling).

10.34 p.m.—Late news and announcements.  
 11.0 p.m.—FROM THE WESTWORTH  
 CAFE, CHURCH HILL, SYDNEY  
 The Westworth Symphonic Dance Orchestra,  
 under the baton of Mr. Frederick Leighton.  
 10.44 p.m.—FROM THE STUDIO:  
 Celebrity recitals.  
 10.22 p.m.—THE WESTWORTH SYMPHONIC  
 DANCE ORCHESTRA IN POPULAR NUM-  
 BERS.  
 11 p.m.—"Die Den." National Anthem.  
 Close down.

## 2EL, SYDNEY

Thursday.

12 noon.—G.P.O. Clock and chimes.  
 12.1 p.m.—Special Ocean Forecast and  
 Weather.  
 12.3 p.m.—Information—Mail and Shipping  
 and movements of important ships.  
 12.5 p.m.—Sydney Stock Exchange Cals.  
 12.8 p.m.—Boats in call by Wireless.  
 12.10 p.m.—Musical programme from the  
 studio.  
 12.20 p.m.—Fruit market report.  
 12.21 p.m.—Vegetable market report.  
 12.22 p.m.—London metal market report.  
 12.23 p.m.—Dairy and Farm Produce market  
 report.  
 12.27 p.m.—Racing resume.  
 12.30 p.m.—G.P.O. Clock and chimes.  
 12.40 p.m.—Musical programme from Studio.  
 12.45 p.m.—Shipping Information (cont.)  
 12.47 p.m.—Riffers. Instrumental Quartet—  
 direction—Garry Carting.  
 1.00 p.m.—News from the "Sun."  
 1.01 p.m.—Musical programme from studio.  
 1.02 p.m.—News from the "Sun."  
 1 p.m.—G.P.O. Clock and chimes.  
 Racing Information broadcast immediately  
 after each race by courtesy of the "Sun."  
 1.1 p.m.—Talk to Children and special en-  
 tertainment for Children in Hospital.  
 1.10 p.m.—Musical programme from the studio.  
 1.20 p.m.—Women's Session. (Conducted by  
 Mrs. Jordan) Social News—results to corres-  
 pondents Talk on "Handicraft."  
 1.40 p.m.—G.P.O. Clock and chimes.  
 1.41 p.m.—Musical programme from studio.  
 1.42 p.m.—News from the "Sun."  
 1.43 p.m.—G.P.O. Clock and chimes.  
 1.44 p.m.—Musical programme from the studio.  
 1.45 p.m.—Country Women's Session.  
 1.46 p.m.—G.P.O. Clock and chimes.  
 1.47 p.m.—Musical programme from the studio.  
 1.48 p.m.—Social Story.  
 1.49 p.m.—G.P.O. Clock and chimes.  
 1.50 p.m.—Musical programme from the studio.  
 1.51 p.m.—News from the "Sun."  
 1.52 p.m.—Country Women's Session.  
 1.53 p.m.—G.P.O. Clock and chimes.  
 1.54 p.m.—Musical programme from the studio.  
 1.55 p.m.—Social Story.  
 1.56 p.m.—G.P.O. Clock and chimes.  
 1.57 p.m.—Musical programme from the studio.  
 1.58 p.m.—News from the "Sun."  
 1.59 p.m.—Racing Resumé.  
 1.52 p.m.—Producers Distributing Society's  
 Fruit and Vegetable Market Report.  
 1.54 p.m.—Resume of radio programme.  
 1.55 p.m.—Announcements.  
 1.58 p.m.—Special Ocean Forecast.  
 1 p.m.—G.P.O. Clock and chimes—close down.

### EARLY EVENING SESSION.

7.45 p.m.—G.P.O. Clock and chimes.  
 7.46 p.m.—Ossie George and the Kiddies.  
 7.49 p.m.—Musical programme from the studio.

### SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.  
 Australian Mercantile Land and Finance  
 Co's report.  
 Weather report by courtesy of Hort. Soc.  
 Producers Distributing Society's Fruit and  
 Vegetable market report.  
 Stock Exchange news.  
 Grain and fodder report (Hort.).  
 Dairy Produce report (Hort.).  
 7.15 p.m.—Country News from the "Sun."  
 7.16 p.m.—Talk on "Food Motion Pictures" by  
 Mr. O'Donoghue.  
 7 p.m.—G.P.O. Clock and chimes.  
 Broadcaster's Special Chorus.  
 7.31 p.m.—Musical Broadcast from E. Will's  
 Piano Salon.  
 7.45 p.m.—Fashion and social notes by Miss  
 Bessie Tinsington. Broadcaster's fashion  
 expert, broadcast from the ballroom of the  
 Ambassadors.  
 7.49 p.m.—Mr. Harry Avondale humorous at  
 the piano.

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8.15 p.m.—Resumé of following day's programme.  
9.00 p.m.—G.P.O. Clock and chimes.  
Weather report and forecast by courtesy of Mr. T. J. Murray, Gen. Meteorologist.  
9.25 p.m.—Lena's Graham and Syd Kingsley in Comedy and Harmony.  
10.00 p.m.—Miss May McInerghingham (soprano).  
10.15 p.m.—Mr. Arthur Mayo (baritone).  
10.30 p.m.—Miss Gladys Verano (soprano).  
10.45 p.m.—Mr. Harry Reynolds.  
11.00 p.m.—Folk and Social notes from the Ambassadors.  
10.5 p.m.—Miss Mah Featheringham.  
10.10 p.m.—Mr. Arthur Mayo.  
10.15 p.m.—Mr. Arthur Mayo.  
10.20 p.m.—Mr. Arthur Mayo.  
10.25 p.m.—The Ambassadors' Dance Band broadcast from the Ballroom of the Ambassadors. During the intervals between dances "Hot" news will be broadcast.  
11.00 p.m.—G.P.O. Clock and chimes.  
National Anthem.

## 3LO, MELBOURNE

Thursday.

MIDDAY SESSION.

THE FUTURISTS.  
"KELPAC'S SERENADER."  
SYD BECK, comedian.  
BESSIE GAINSON, violin.  
WIN AND WINDLE.  
THE STUDIO ORCHESTRA.  
Announcer: ALFRED ANDREW.  
Accompanist: AGNES FORTUNE.  
A ROYAL TOUR.  
11.00 a.m.—"TRANSMISSION FROM KYNETON"—Description of reception to THEIR ROYAL HIGHNESS, THE DUKE AND DUCHESS OF YORK.  
11.15 a.m.—FROM THE STUDIO.  
English school wireless news from Bagley, Tinsley and the Australian Press Association cables.  
"Arise" and "Herald" news service.  
11.30 p.m.—"THE FUTURISTS" presents their Recitals.

"HUXHAM LAUGH"  
The Futurists sing an original waltz.  
Dessy has a confession to make.  
A domestic tragedy in our gully.  
"THE TWENTY-FIRST DITHIRAM"  
The Mother..... Tex Vandu  
The Father..... Egan Northcote  
The Sun..... Gus Dawson  
"LINA VANDU" will sing "Merronville."  
CYRIL NORTHCOTE and DESSY have an argument.  
Finale by the Company.

1.00 p.m.—STUDIO ORCHESTRA.  
"My native land" (Wood).  
1.15 p.m.—Stock Exchange information.  
1.30 p.m.—HUXHAM'S SERENADERS:  
Quartet. "Keep on harp and oh" EDITH HUXHAM, DOLLY BURDETT, KENN MILLAR, HUGH HUXHAM.  
Trio solo. "Kiss your Doodle" HUGH HUXHAM.

STUDIO ORCHESTRA—Suite "Lavender and Lace" Part I (First Hall).  
Quartet. "The Young Man-servants' Ball"  
THE SERENADER QUARTETTE.  
Solo Solo. "Dimes of Childhood" BENN WILLIAMS.  
STUDIO ORCHESTRA. "Lavender and Lace" Part 2 (First Hall).  
Gypsy Quartet. "Evolution" THE SERENADER QUARTETTE.

MIDDAY SESSION.

1.00 p.m.—TRANSMISSION FROM CASTLE-MAINE description of reception to THEIR ROYAL HIGHNESSES, THE DUKE AND DUCHESS OF YORK.  
10.15 p.m.—HUXHAM'S SERENADERS' PROGRAMME continued.  
1.30 p.m.—Weather report.  
1.45 p.m.—STUDIO ORCHESTRA.  
"The Good Singer" (Franz-Singer).

1.50 p.m.—SYD BECK, comedian.  
"I've never stepped on a onion."  
1.12 p.m.—BESSIE GAINSON, violin.  
"Shera" (Dithers-Orville).  
1.30 p.m.—WIN AND WINDLE.  
2.00 p.m.—TRANSMISSION FROM BENDIGO—Description of reception to THEIR ROYAL HIGHNESSES, THE DUKE AND DUCHESS OF YORK.  
2.10 p.m.—Close down.

AFTERNOON SESSION.

Speaker, MISS FRANCES FRASER.  
MADAME LAMBERT, soprano.  
BERTHA JORGENSEN, violin.  
RUSSELL CALLOW, tenor.  
THELMA READY, banjo.  
THE STUDIO ORCHESTRA.

Announcer: ALFRED ANDREW.

Accompanist: AGNES FORTUNE.

VARIATIONS.

8.00 p.m.—STUDIO ORCHESTRA.  
Selection: "The Dollar Princess" (Leo Fall).  
1.10 p.m.—MADAME LAMBERT, soprano.  
Herodias (Mascagni).  
1.17 p.m.—BERTHA JORGENSEN, violin.  
"Prairie Flower."  
1.24 p.m.—STUDIO ORCHESTRA.  
"Cluck to Wario" (Schreiner).  
1.34 p.m.—RUSSELL CALLOW, tenor.  
"To the day" (Leonovello).  
"I did not know" (Leonovello).  
1.41 p.m.—THELMA READY, banjo.  
Music selection.  
1.48 p.m.—STUDIO ORCHESTRA.  
"Pierrot" (Chaminade).  
4.00 p.m.—MADAME LAMBERT, soprano.  
"The Song" (Schreiner).  
4.10 p.m.—MISS FRANCES FRASER.  
"Pictures of Malay Life."  
4.30 p.m.—"Herald" news service.  
Stock Exchange information.  
4.45 p.m.—Evensong from St. Paul's Cathedral.  
5.00 p.m.—Close down.

EVENING SESSION.

7.40 p.m.—Children's hour.  
Answers to letters and birthday greetings.  
7.53 p.m.—DR. FLOYD and the "Claretier" in "Solis, Poets and Choruses."  
8.05 p.m.—"BABY WIMLEAF"—Story for the boys and girls. "Ade and her pet fawn."  
8.20 p.m.—"Arise" and "Herald" news service.  
Weather synopsis.  
Shipping movements.  
8.47 p.m.—Stock Exchange information.  
8.52 p.m.—Fish market reports, by J. W. Barrett, Ltd.  
8.55 p.m.—River reports.  
8.58 p.m.—Market reports of fruit by the Victorian Producers' Co-operative Co., Ltd. Newmarket sheep sales. Poultry, grain, hay, straw, live dairy produce, potatoes and onions.  
9.00 p.m.—Market reports of fruit, by the Victorian Producers' Association, compiled by "The Fruit World" exclusive to 3LO.

NIGHT SESSION.

Speaker: REV. R. G. NICHOLS.  
MR. A. W. JACKSON.  
JUDITH ANDERSON.  
HUXHAM'S SERENADERS.  
GRACE AND KEATS.  
KELLIFAN, comedienne.  
SYD BECK, comedian.  
JOE ARONSON and HIS SYNCO-PAT-ING SYMPHONISTS.  
Announcer: MAURICK DUDLEY.  
Accompanist: AGNES FORTUNE.  
10.10 p.m.—REV. R. G. NICHOLS.  
"St. Mark's Social Settlement."  
10.20 p.m.—MR. A. W. JACKSON.  
10.35 p.m.—MISS JUDITH ANDERSON new appearance in "KA FOR TWU," at the Theatre Royal will speak to you from his dressing room, by permission of J. C. Williamson, Ltd.

8 p.m.—Reception by the STATE GOVERNMENT OF VICTORIA, transmitted from the Exhibition Building.  
"Dance, laugh and be merry, but be also innocent."

9 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:  
"Alabama Stomp" (Cramer).  
"Adorable" (Ford).  
"Just a Bird's Eye View" (Kahn).

9.10 p.m.—HUXHAM'S SERENADERS:  
In harmonious melody.

9.14 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:  
"Pearl of Malabar" (Nichols).  
"Dream of Love and You" (Taylor).  
"Am I wasting my time" (Bibo).

9.24 p.m.—GRACE AND KEATS:  
"In Harmony."

9.28 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:  
"Rose colored glasses" (Steigner).  
"It's a wondrous world after all" (Davis).  
"My Dream of the big parade" (Dubin).

9.32 p.m.—NELL CRANE, comedienne:  
"Smile Awhile" (Stanley).

9.42 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:  
"My Pal, Jerry" (Rosen).  
"How could Red Riding Hood" (Randolph).  
"Somebody's Lonely" (Davis).

9.52 p.m.—SYD BECK, comedian:  
"I said, No. I don't like to do that."

9.58 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:  
"In a little Spanish Town" (Young).  
"Ruffreddy" (Batey).  
"Save your sorrow" (De Silva).

10.0 p.m.—"Argus" news review.  
British official wireless news from Rugby.  
Meteorological information.  
Sporting notes by "Olympus."  
Announcements.

10.01 p.m.—JOE ARONSON & HIS SYNCOPATING SYMPHONISTS:  
"Say it again" (Richman).  
"Freddie" (Greer).  
"At Peace with the World" (Berlin).

10.01 p.m.—HUXHAM SERENADERS:  
Will again entertain you.

10.04 p.m.—JOE ARONSON & HIS SYNCOPATING SYMPHONISTS:  
"The Animal Fair" (La Forrest).  
"Talking to the Moon" (Baskette).  
"Let's Grow Old Together" (Melson).

10.04 p.m.—GRACE AND KEATS:  
"Once Again."

10.08 p.m.—JOE ARONSON & HIS SYNCOPATING SYMPHONISTS:  
"While we danced till Dawn" (Schuster).  
"It made you happy" (Donaldson).  
"She's Everybody's Sweetheart" (Huse).

11 p.m.—OUR GREAT THOUGHT:  
"Liberalism counts less in giving profusely than in giving judiciously"—Bryere.

11.1 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:  
"I climb the highest mountain" (Brown).  
"Schultz is back again with his boom, boom, boom!"

"Say that you love me" (Nichols).

11.10 p.m.—NELL CRANE, comedienne:  
"You know and I know" (Lawrence).

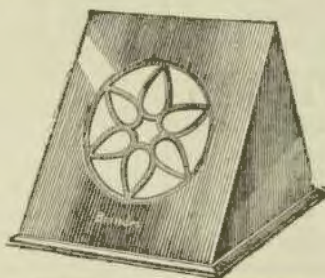
11.14 p.m.—JOE ARONSON & HIS SYNCOPATING SYMPHONISTS:  
"Lutetium and Nery" (Davis).  
"To-night my night with baby" (Meyer).  
"The Savoy Medley of Medleys" (arr. Sottery).

11.24 p.m.—SYD BECK, comedian:  
"The Near East."

11.28 p.m.—JOE ARONSON & HIS SYNCOPATING SYMPHONISTS:  
"Cherie I Love You" (Goodman).  
"No Fault, why do you love?" (Buck).  
"Whisper" (Bibo).

11.30 p.m.—GOD SAVE THE KING.

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## 4QG, BRISBANE

Thursday.

### MIDDAY SESSION.

1.0 p.m.—Market Reports; Weather Information; News Service supplied by "The Daily Mail" and "The Daily Standard".  
1.15 p.m.—From Hotel Carlton, Lunch Hour Music played by Hotel Carlton Symphonic Orchestra.  
1.45 p.m.—From the Observatory; Standard Time Signal.  
2.0 p.m.—Close Down.

### AFTERNOON SESSION.

3.30 p.m.—A PROGRAMME OF MUSIC FROM THE STUDIO: Duo Art selection, "Serenade" (Lindbergh); Australian Vocal selections (a) Sexteto, "Let's Make It" (Albert); Pairs Specialty Orchestra, (b) Song "The King's Minstrel" (Brown); Mr. Malcolm McEwen; Duo Art selection, "Catherine" (Grigg); Australian Vocal selections (a) Solo "El Capitán Marell" (Bauer); U.S.A. Vocal Selections, "I'm in Love with You" (Mason); "You Are Not My Beloved" (Taylor); Mr. John Thomas; Duo Art selection, "Fifteen Minutes" (Laybelle); Australian Vocal selections (a) Sexteto, "Hello Aloha" (Gilbert); Brisbane Dance Orchestra, (b) Duo, "Swanee River Bonnets" (Nichols), Messrs. Nichols and Hines.  
8.15 p.m.—"Editorial" News.  
8.30 p.m.—Close Down.

### EARLY EVENING SESSION.

8.0 p.m.—"Daily Standard" News; Announcements.  
8.30 p.m.—Belltime Stories by "The Handman".  
7.0 p.m.—Market Reports; Stock Reports.  
7.45 p.m.—Weather News; Announcements.  
7.55 p.m.—Standard Time Signal.  
7.40 p.m.—Lectures—a talk on books by Mr. W. A. Hession (McLeod's Lectures).

### NIGHT SESSION.

#### CHORAL RECITAL.

The first portion of tonight's programme will comprise a choral recital which will be presented by the City Tabernacle Choir, and will be relayed from the Baptist City Tabernacle.

8.0 p.m.—FROM THE CITY TABERNACLE.  
First song, "Now is My Chance" (Frederic Max) (Solo), song, "Youth" (Alford); Mr. Edgar Mansfield, part-song, "Masters of the Army" (de Billo); song, "Who is Spoken" (Schubert); Miss Miss King, air, "Sweet An Alarm" (Handel); Mr. Jack Lord, part-song, "O Happy News" (Kilzer); recitation, "John Bull" (Bostelov); air, "My Heart is Sore" (Mr. W. Donald); chorus, "Rag and Wild Bells" (Foster); solo, "The Irish Chorus" (Mason); Miss Ben Brown, song, "Twinkle" (Hazel); Mr. Miss King, part-song, "Abraham Lee" (song, "Pleading" (Hess); Miss Pat. McVicar; song, "Friend" (Dowling); Mr. G. Hession, part-song, "The Bell of St. Michael's Tower" (Hession); song, "My Treasure" (Mrs. Hilda Cooper); musical, "When the Bells are Ringing" (Schubert).

### STUDIO CONCERT.

8.15 p.m.—Metropolitan Weather Forecast; Quartet, "The Wedding Ring" (Hazzard); the Clarwin Orchestra (conductor, Mr. S. Henry); contralto solo, "Fairly Love Song" (Willoughby); Miss Dorothy Brown; violin solo, "Phantom Melody" (Van Boven); Miss G. Pang; soprano solo, "The Wren" (Lohman); Miss Bill Mansson; a thought for the soulful (Willi H. Langer); "Six Letters" (a waltz, "The Love King" (Erzer); the Clarwin Orchestra; moods and mirth by the Melody Makers; popular numbers on the piano, by Miss Jane Clifford; contralto solo, "Yearning" (Condon); Miss Dorothy Brown; violin solo, "Helen" (Ebbel); Miss G. Pang; soprano solo, "Fascination" (a waltz, "The Mountains" (Simpson); Miss Jill Mansson; trombone solo, "O Star of Eve" (Wagner); Mr. W. Seal (accompaniment by the Clarwin Orchestra); selection, "The King" (Bellini); the Clarwin Orchestra; March, "The Union Leader" (Brown); the Clarwin Orchestra.  
10.0 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

## Friday, April 29

## 2FC, SYDNEY

### MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.  
12.15 p.m.—Stock Exchange, first call.  
12.30 p.m.—Official weather forecast, rainfall, temperature, astronomical phenomena, shipping intelligence, mail services.  
12.45 p.m.—Studio music.  
12.55 p.m.—Summary of "Sydney Morning Herald" news service and tables.  
1.00 p.m.—Market news.  
1.25 p.m.—Studio music.  
1.45 p.m.—Miss Kathleen Stanley, soprano; "Milkmaid" (Percy).  
1.55 p.m.—Studio music.  
2.00 p.m.—"Big Ben" Weather intelligence.  
2.15 p.m.—"Evening News" midday news service.  
Producers' Distributing Society's report.  
1.55 p.m.—Studio music.  
1.45 p.m.—Miss Kathleen Stanley, soprano; "Just as you are for Me" (Hawthorne).  
1.35 p.m.—Stock Exchange, second call.  
1.30 p.m.—Marching music for school children.  
1.40 p.m.—Studio music.  
1.50 p.m.—Mr. Cliff Hanson, violin solo.  
2.00 p.m.—"Big Ben." Close down.

### AFTERNOON SESSION.

3.00 p.m.—"Big Ben" and announcements.  
3.15 p.m.—Mr. Cliff Hanson, violin solo.  
3.30 p.m.—Studio music.  
3.40 p.m.—Miss DOROTHY BODDER.  
RODRANO.  
3.50 p.m.—Marching music for school children.  
4.00 p.m.—FROM FARMER'S TEA ROOMS: Miss Ethel Muller, contralto; "Had it not been for Me" (Nichols).  
3.45 p.m.—A talk on home making and receipts by Miss Beth Funnell.  
4.15 p.m.—"Big Ben."  
FROM FARMER'S TEA ROOMS: Miss Ethel Mason, soprano; "Marsalis" (Macmorrough).  
4.30 p.m.—Mr. Cliff Hanson, violin solo.  
4.40 p.m.—"Dulcinea" solo by Mr. Kwart Chappell.  
4.50 p.m.—FROM FARMER'S TEA ROOMS: Miss Ethel Muller, contralto; "Had it not been for Me" (Nichols).  
4.25 p.m.—FROM THE STUDIO: Popular records.  
4.35 p.m.—Miss Dorothy Bodder, soprano.  
4.40 p.m.—FROM FARMER'S TEA ROOMS: Miss Ethel Mason, soprano; "The Fair at Farnham at Eve" (Caldman).  
4.45 p.m.—Studio music, third call.  
4.55 p.m.—Studio music.  
5.00 p.m.—"Big Ben." Close down.

### EARLY EVENING SESSION.

5.45 p.m.—The Chimes of 2FC.  
5.55 p.m.—The "Hello Man" talks to the children.  
6.05 p.m.—The Juvenile pupils of Madame Ann Baker.  
6.30 p.m.—A serial story for the older ones.  
6.45 p.m.—Dance music.  
7.00 p.m.—"Big Ben." Data reporting information by the 2FC Racing Commissioner.  
7.10 p.m.—"Dulcinea" market reports (food, wheat and stock).  
7.15 p.m.—Food and vegetable markets.  
7.20 p.m.—Weather and shipping intelligence. Stock Exchange.  
7.25 p.m.—Late "Evening News" news service.

### NIGHT SESSION.

7.45 p.m.—Programme announcements.  
7.47 p.m.—Mr. James Hession, violinist: (a) "Serenade" (Grieg); (b) "Valse Brillant" (Chopin).



- 7.55 p.m.—Mr. Charles Lawrence, entertainer:  
"Dish Vagabond" (Donaldson).
- 8 p.m.—"Big Ben." Mr. Alfred O'Shea, Australia's foremost tenor.
- 8.5 p.m.—Mr. Charles Lawrence, entertainer:  
"Loy's Hiding Place" (Laska).
- 9.12 p.m.—A talk by Mr. W. F. Kay:  
"Immortals of the Sydney Stage."
- 9.27 p.m.—Mr. Alfred O'Shea, Australia's foremost tenor.
- 9.34 p.m.—Mr. James Glennon, violinist:  
(a) "Acheron Castalia" (Tchaikowski-Kreidler).  
(b) "Aurore and Nicolette" (Kreidler).
- 9.40 p.m.—Mr. Charles Lawrence, entertainer:  
"What a Life" (Kennedy Russell).
- 9.45 p.m.—The Janetski Trio, instrumentalists.
- 9.53 p.m.—Mr. Alfred O'Shea, Australia's foremost tenor.
- 9 p.m.—"Big Ben."
- Mr. Charles Lawrence, entertainer:  
"The Country's the place for Me" (Bennett).
- 9.5 p.m.—FROM THE THEATRE ROYAL, SYDNEY (by permission of J. C. Williamson, Ltd.): Last night's performance of "THE COUSIN FROM NOWHERE," featuring Arthur Elgint and Leyland Hodgson; ACT TWO: Scene: The Terrace of Julia's House (Morning); Musical Numbers: Opening, Flow Allan; Ensemble: "Roderick," Margery Hicklin, Marie Le Varre, Floie Allan, Leyland Hodgson; Arthur Elgint, Harry Williams and Stanley Odgers; Tango Duet: "Love and You," Margery Hicklin and Leyland Hodgson; Dance: "Vance at Spicing," Wally (Stragus), Thurza Rogers and Robert Lawelles; Duet: "The Old and the New," Flow Allan and Gus Bluet; Ensemble: "Balalaïka" Finale.
- 10 p.m.—"Big Ben."
- FROM THE STUDIO:  
The Janetski Trio, instrumentalists.
- 9.10 p.m.—FROM THE THEATRE ROYAL, SYDNEY: The Third Act of "THE COUSIN FROM NOWHERE," Scene: Garden at Julia's House (Morning). The action of the play takes place in Holland. Time: the present day; Musical Numbers: Quartette: "When the clouds roll by," Floie Allan, Marie Le Varre, Arthur Elgint, Gus Bluet and the Twelve Talpa; Duet: "Holland," Thurza Rogers and Robert Lawelles; Song: "Every bit of loving in the world," Margery Hicklin; Duet: "No Foolin'," Floie Allan and Leo Franklyn; Finale: Full Company.
- 10.55 p.m.—FROM THE STUDIO:  
Late news and announcements.
- 11 p.m.—"Big Ben." National Anthem.  
Close down.

## 3LO MELBOURNE

Friday.

MIDDAY SESSION.

GRACE AND KEATS.  
MR. HARDLEY TURNER.  
RUSSELL CALLOW, Tenor.  
TASMA TIERNAN, Cello.  
MARIE BRENNER, Soprano.  
EUGENIE DUGGAN.

THE STUDIO ORCHESTRA.

Accompanier: ALFRED ANDREW

Accompanist: AGNES FORTUNE

FROTH AND BROTH

- 12 noon.—Time Signal, British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; "Acacia" and "Herald" News Service.
- 12.20 p.m.—GRACE AND KEATS.  
"Pierrot, Pierrot and a Piano."
- 12.30 p.m.—STUDIO ORCHESTRA,  
"Stop Flirting" (Gershwin).
- 12.40 p.m.—Stock Exchange Information.

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N.S.I. 8-H

10.56 p.m.—One Act Play, MR. BARLEY

TUNER

"Words and Parts"

11 p.m.—STUDIO ORCHESTRA,

"H.M.S. Pinetore" (Sullivan).

11.10 p.m.—Meteorological Information.

12 p.m.—RUSSELL CALLOW, Tenor.

"Nina Ciara" (Novello);

"You'll" (Allman).

12.17 p.m.—TASMA TIERNAN, Cello.

"Pastoral" (Hind)

12.24 p.m.—MAIE BRENNER, Soprano.

"Brown, is My Love" (Ella. Partch).

"Linden Lea" (V. Williams).

1.01 p.m.—STUDIO ORCHESTRA,

Vocal, "Annette."

1.10 p.m.—EUGENIE DUGGAN,

"Kiss" (Dorothy Turner).

1.26 p.m.—STUDIO ORCHESTRA

"English Folk Songs" (Vaughan Williams).

2.0 p.m.—Close Down.

2.16 p.m.—Description of Walter Handicap,

Ballarat Miners, by "Musket," of the

"Sporting Globe."

2.30 p.m.—Description of the DEPARTURE

OF THEIR ROYAL HIGHNESSES THE

DUKE AND DUCHESS OF YORK, for

Adelaide, transmitted from Spencer Street,

Adelaide.

## AFTERNOON SESSION.

Speakers:

"AU FAIT" MRS. M. CALLAWAY

MAHOOD.

THE STUDIO ORCHESTRA.

THE FUTURISTS.

NELL CRANE, Comedienne.

Announcer ALFRED ANDREW

Accompanist AGNES FORTUNE

REVUE.

Result of Handicap Pony Race, Ballarat

Miners, by "Musket" of the "Sporting

Globe."

3.0 p.m.—STUDIO ORCHESTRA.

"The Merrydancers" (Eric Coates).

3.10 p.m.—"AU FAIT," "Fashion Talk."

3.15 p.m.—STUDIO ORCHESTRA,

"Spanish Gypsy Dance" (Mooney).

3.30 p.m.—Description of April Handicap,

Ballarat Miners, by "Musket," of the

"Sporting Globe."

3.35 p.m.—THE FUTURISTS, present their

Radio Favorite.

"The Time Tattle."

The Futurists are glad to meet you again

and sing an Opening Chorus.

DIEMAL DESMOND and CYRIL NORTH-

COTE have a few words to say.

IRA YANDA looks at the world through

one colored glasses.

A Playlet of the Eternal Triangle.

How to Obtain a Husband?

The Husband GUS DAWSON

The Wife IRA YANDA

The Friend CYRIL NORTHCOTE

Dress becomes gay and says, "No, I don't

like to do that."

Finale by the Company, "Wanna go

Back Again, Blues."

3.55 p.m.—STUDIO ORCHESTRA,

"Music Pictures" (Pumpil).

4.6 p.m.—NELL CRANE, Comedienne,

"Zara" (Lawrence).

"Musical Comedy Memories" (Lawrence).

4.10 p.m.—Description of Novice Handicap,

Ballarat Miners, by "Musket," of the

"Sporting Globe."

4.17 p.m.—STUDIO ORCHESTRA,

"Valse Bleue" (Delig).

4.27 p.m.—MRS. M. CALLAWAY MAHOOD,

"Act II Modern Life."

4.40 p.m.—Description of Handicap Novice

Pony Race, Ballarat Miners, by "Musket,"

of the "Sporting Globe."

4.50 p.m.—"Herabi" News Service, Stock

Exchange Information.

5.0 p.m.—Close Down.

5.20 p.m.—Description of Flying Handicap,

Ballarat Miners, by "Musket," of the

"Sporting Globe."

## EVENING SESSION.

- 8.40 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.  
 8.56 p.m.—NELL CRANE will sing something for you.  
 9.2 p.m.—"HILLY BUNNY" has a very special "Bunny Story for You."  
 9.12 p.m.—"HAROLD COELIERE," "Mouthorgan Selection."  
 9.19 p.m.—"HILLY BUNNY," "Fogliwood, Tales."  
 9.26 p.m.—"Argus" and "Herald" News Services; Weather Synopses; Shipping Museum.  
 9.32 p.m.—Stock Exchange Information.  
 9.32 p.m.—Fish Market Reports, by J. R. Barrett, Ltd.  
 9.53 p.m.—River Reports.  
 9.57 p.m.—Market Reports of Fruit, by the Victorian Fruitgrowers' Association, compiled by "The Fruit World," exclusive to 3LG.

## NIGHT SESSION.

## Speakers:

MR. J. BRAKE, DR. BROOKE NICHOLLS, MR. H. K. LOVE, "CARBIDAN," MR. A. CHADWICK.

## THE STUDIO ORCHESTRA.

COLLINGWOOD CITIZENS' BAND, Conductor, Mr. F. C. JOHNSTON.  
 J. ALEXANDER BROWNE, Baritone.  
 C. RICHARD CHUGG, Flute.  
 GRACE AND KEATS.  
 HUXHAM'S SERENADERS.  
 BESSIE GAUNSON, Violin.  
 EYD BECK, Canadian.  
 MADAME LAMBERT, Soprano.  
 WIN AND WINDLE.  
 RUSSELL CALLOW, Tenor.

Announcer: MAURICE DUDLEY.

Accompanist: AGNES FORTUNE.

9.15 p.m.—Agricultural Department, Mr. J. Brass, Senior Inspector of Agriculture.

"Wheat Growing—Seedling Preparation."

9.20 p.m.—STUDIO ORCHESTRA,

Selection, "Ruddiger" (Sullivan).

9.20 p.m.—J. ALEXANDER BROWNE, Baritone.

"The Star" (Rodgers).

"O Mistress Mine" (Jupiter).

9.25 p.m.—C. RICHARD CHUGG, Flute,

"Dance of the Blessed Spirits" (Gluck).

9.24 p.m.—GRACE AND KEATS,

"Melodious Moments."

9.0 p.m.—DR. BROOKE NICHOLLS,

"The Coral Lagoon."

9.15 p.m.—HUXHAM'S SERENADERS,

Quartette, "Moonlight on the Ganges."

E. HUXHAM, D. BURDETT, K. MILLAR

and H. HUXHAM.

Tenor Solo, "Old Maid."

H. HUXHAM.

STUDIO ORCHESTRA,

"Star Bonanza" (Lugani).

Musical Sketch.

"Pink Th. Hga."

SERENADER QUARTETTE,

BESSIE GAUNSON, Violin,

"Trameter" (Schumann).

Quartette, "The Carnival."

SERENADER QUARTETTE.

9.35 p.m.—COLLINGWOOD CITIZENS'

BAND,

March, "Carnival King."

Polka, "Ziska."

9.45 p.m.—EYD BECK, Comedian,

"She Told me to Meet Her at the Park."

9.52 p.m.—STUDIO ORCHESTRA,

Selection, "Pink Lady" (Ivan Caryll).

9.2 p.m.—MR. H. K. LOVE,

"Technical Talk."

9.10 p.m.—COLLINGWOOD CITIZENS'

BAND,

Thompson Solo, "Lead Me Your Aid."

Soloist, A. Flury.

9.17 p.m.—MADAME LAMBERT, Soprano,

"Serenade" (Strauss).

9.22 p.m.—MR. A. CHADWICK, Captain Mel-

bourne Football Team, will speak on "To-

morrow's Match."

9.32 p.m.—STUDIO ORCHESTRA,

Suite, "Don Quixote" (Saffranke).

9.40 p.m.—WIN AND WINDLE,

Duologue, "Over Weight and Wait."

# A Radio Bargain

3 Valve Set in handsome cabinet, complete in every detail, including—

Loud Speaker  
 Exide Accumulator  
 84 Volt B Battery  
 4½ Volt C Battery  
 Large Valves (the best)  
 Aerial Gear

A guarantee with every Set

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Price - £16 17 6      Price - £19 17 6

Deposit - 1 14 6      Deposit - 1 18 6

Weekly - 5 9      Weekly - 6 9

We charge no interest for these easy terms

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Take one home to-night!

## Radio-W'Less Mfg. Co. Ltd.

317 George Street :: SYDNEY

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# We agree about Ever-Ready

*I'm a wireless enthusiast. You, too, I suppose.*

*Some nights I sit up late getting stations overseas; you're probably content with local and interstate stations. But we're certainly both keen about our "OLD RELIABLES"—the Ever-Ready Batteries we put in just on nine months ago.*

*We agree about Ever-Ready. They had to be good to get where they are.*

## The New Ever-Ready No. 126 or A, B, or C Battery

Price ..... 2/9

One of a group of radio batteries. Useful in wireless, lighting, and amplification. Size, 3 1/2 x 4 x 1 1/2. Most useful for bells, telephones, burglar alarms, medical coils, etc. With three brass terminals. Voltages 1.5, 3 or 4.5 volts. Useful for all wireless purposes as well as general utility.



## The "Standard" "A" Radio Battery.

Price ..... 2/6

The Ever-Ready "Standard" "A" Battery (2-cells), 2.5 volt, specially designed for economical operation of 1, 2, or 3 valves, taking .30 ampere at 2 volts. For sets with four or more valves, the most economical service is obtained by using two "Standard" "A" Batteries connected in parallel.



If unobtainable locally, write for address of nearest source of supply to

**The Ever-Ready Co. (Gt. Britain) Ltd.**

163 Pitt Street      Sydney

- 5:50 p.m.—"CARDIGAN." SIR H. A. WOLFE, Sporting Editor of the "Argus" and "Australasian," will speak on Saturday's News.
- 10:0 p.m.—AOLINGWOOD CITIZENS' BAND.  
Selection, "Recollections of Wales."  
10:10 p.m.—M. DARR KAMBERT, Soprano.  
"Paris" (Apolo).
- 10:15 p.m.—"Argus" News Service. Local Official, Wireless News from Rugby Meteorological Information.
- 10:25 p.m.—J. ALEXANDER BROWNE, Baritone.  
"New Lyrics" (Ireland).  
"Come to the Fair" (Martin).
- 10:35 p.m.—COLLINGWOOD CITIZENS' BAND.  
Novelty, "Fox and Hounds."  
Favourite, "That's Why I Love You."  
10:45 p.m.—RUSSELL CALLOW, Tenor.  
"Mountain Lovers" (Benson).  
"O Love Me" (Carpis).
- 10:50 p.m.—Announcements. Road News, supplied by the Automobile Club of Victoria.
- 11:0 p.m.—OUR GREAT THOUGHT.  
"To bring adversity with an equal result, both the sign and glory of a brave spirit!" —CHARLES.
- 11:1 p.m.—JOE ARONSON AND HIS SYNCHRONIZING SYMPHONETTE.  
"Call Me and Tell Me a Story" (Gree).  
"You're Got To Be a Fool" (Emery).  
"Bea Colored Glasses" (Gibson).  
"Am I Wasting my Time" (Riba).  
"The Village Blacksmith Owns the Village."  
"That's Why I Love You" (Davidson).  
"Odds On" (Arr. Boren).  
"Till He Ties Me" (Brown).  
"Mr. Tom, He'll Be-He" (Wood).  
"Burgundy" (Malle).  
"A Little Spanish Town" (Wagner).  
"Woolly" (Woolly).  
"To-Night's My Night With Hain" (Meyer).  
"My, My, Blackbird" (Gibson).  
"I Wish I Had My Old Girl Back" (Yalson, Avery) (Benson).
- 11:40 p.m.—GOD SAVE THE KING.

## 4QG, BRISBANE

Friday.

### MIDDAY SESSION.

- 12 p.m.—Market Reports, Weather Information, "The Daily Mail" and "The Daily Standard" News.
- 1:20 p.m.—Piano Hotel Carlton; Lunch Hour Music played by Hotel Carlton Symphony Orchestra.
- 1:55 p.m.—From the Observatory: Standard Time Signal.
- 2:0 p.m.—Close Down.

### AFTERNOON SESSION.

- 3:30 p.m.—From Hotel Carlton: Afternoon Tea Music, played by Hotel Carlton Symphony Orchestra.
- 4:15 p.m.—From the Studio: News Service supplied by "The Telegraph."
- 4:30 p.m.—Close Down.

### EARLY EVENING SESSION.

- 6:0 p.m.—"Daily Standard" News; Weather Information, Announcements.
- 6:30 p.m.—Bellini Starts up "The Standard."
- 7:0 p.m.—Market Reports; Stock Reports.
- 7:30 p.m.—Weather News, Announcements.
- 7:45 p.m.—Standard Time Signal.

### NIGHT SESSION.

#### W.E.A. MUSIC CLASS.

The Workers' Educational Association's Tutorial Classes in Music are being held in the Reception Hall at 4QG this season, and are being conducted by Mr. George Sampson, Musical Advisor, Department of

Public Instruction, Lecturer in Music, Teachers' Training College.  
The object of holding the classes at 4.45 is to broadcast both the lectures and the music, and so make available to a large audience the educational matter placed before the students.

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

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

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

7.45 p.m.—Music Class.

CADENZA PLECTRAL CLUB.

8.0 p.m.—From the Studio: Week-end road information for motorists, officially supplied by the Royal Automobile Club of Queensland. Metropolitan Weather Forecast; Overseas; "Titanic" (Huddell); Mrs. Matthews' Cadenza Plectral Club; a thought for tonight (With H. Lister); "This End"; (see recollections and records); "Ladies of Love" (Cobb); the Cadenza Trio; vocal solo; "My Land of Dreams" (Jessie Whitten)—with orchestral accompaniment—Mrs. L. Hunter; music and march by "The Melodicy Duo"; romance "Alta Stella Confidante" (C. Orlandi-Walker); Cadenza Sextet; contralto solo; "Down Here" (Braks); Miss Vera Parker; two melodias and piano; "Serenade" (Ch. M. Widor); Cadenza Trio; contralto solo; "A Love Remembered Not" (Forsyth); Miss Vera Parker; polka brillante; "Punto a Virapolo" (E. Respai); the Cadenza Plectral Club.

10.0 p.m.—"The Daily Mail" News; Weather News; Danmore's Sporting Pictures; Close Down.

Saturday, April 30

3LO, MELBOURNE

Saturday.

MORNING SESSION.

THE STUDIO ORCHESTRA.

ETCENE DUGGAN.  
FRANKLIN STONHAM, Clarinet.  
HUXHAM'S SERENADES.  
WIN AND WINDLE.  
RUSSELL CALLOW, Tenor.  
WALTER SMITH, Cornet.  
SYD. HECK, Comedian.  
Amusement . . . . . ALFRED ANDREW  
Accompanied . . . . . AGNES FORTUNE  
"AND A YOUNG HEART EVERYTHING IS FUN."—Dickens.

11.0 a.m.—STUDIO ORCHESTRA.  
Selection, "No. 10. Nancie" (Youmans).

11.10 a.m.—ETCENE DUGGAN.  
"The Jasmine Flower" (Lied Lyt).  
"Lorraine Lerree" (Kingsley).

11.27 a.m.—FRANKLIN STONHAM, Clarinet  
and AGNES FORTUNE, Piano.  
"Adieu from Suzette" (E. Proulx).

11.24 a.m.—STUDIO ORCHESTRA.  
"Merry Widow" (Lehar).

11.44 a.m.—HUXHAM'S SERENADES.  
Quartet, "Thank God for a Garden."

WINTH HUXHAM, DOLLY BURDETT,  
BEN MILLAR, HUGH HUXHAM.  
Contralto Solo, "Valse."

DOLLY BURDETT  
Studio Orchestra.

"Night W. Gladness."  
Quartet, "Fanny and Modley."

SERENADE QUARTETTE.  
Base Solo, "The Ringers."

BEN MILLAR.  
Studio Orchestra.

"First Courtship" (Lindgreen).  
Operatic Quartet, "El Bacho."

SERENADE QUARTETTE.



RADIO  
ACCUMULATORS  
LOW TENSION ACCUMULATORS



SW Type Cell in Celluloid

Supplied in strong celluloid, ebonite or glass containers, with ample acid spurs and sludge space at bottom.

All terminals are "grease-cap" non-corrodible type. Repairs 2 Volt units only—two for a 1 Volt and 3 for a 3 Volt Battery.

SW TYPE FOR BRIGHT VALVES.

Type	Act. Cap	Int. Cap.	Price Ex. Works	Galvald.
	AH	AH	Ebonite	Galvald.
1 SW 5	20	40	9	6
1 SW 7	30	60	11	6
1 SW 9	40	80	13	6
1 SW 11	50	100	15	9
1 SW 13	60	120	18	6
1 SW 17	80	160	22	0
1 SW 21	100	200	26	3

SWD TYPE FOR BULL VALVES.

1 SWD 5	40	11	9	14	9
1 SWD 7	60	15	3	18	9
1 SWD 9	80	18	6	22	9

HIGH TENSION ACCUMULATORS

Consisting of separate glass cells, with rubber covers. Supplied in crate, with non-corrodible terminals, filling funnel and tapping clip. Absolutely reliable and silent in operation.

Filling Panel.

Price 17/6 Ex Works



20 Volt Type  
RHS; High  
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CHADWELL HEATH. LONDON, ENGLAND.

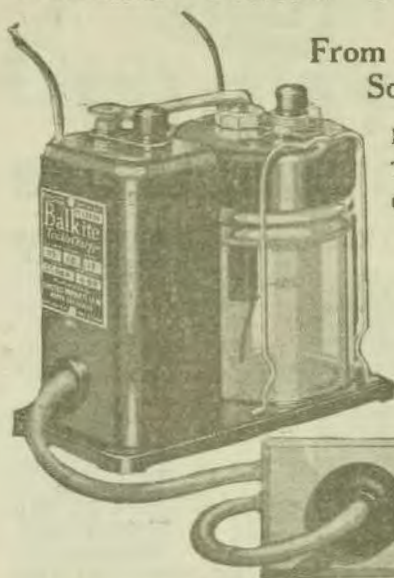
Cables: "FULLER, CHADWELL HEATH"

Western Union 5 Letter (preferred). A.B.C. 6th ED. and BENTLEY'S

ADDITIONAL AUSTRALIAN STOCKISTS REQUIRED  
LIBERAL DISCOUNTS ALLOWED  
ORDERS THROUGH USUAL ENGLISH SHIPPERS

# Balkite Radio Power

From the Light  
Socket



Balkite  
Trickle  
Charger

## THE BALKITE TRICKLE CHARGER

And your "A" Battery supply "A" current from the light socket.

**Model B.—The Balkite Trickle Charger** is probably the most popular of all chargers for "A" batteries. During the last radio season, when it was first put on the market, over 200,000 were purchased and are now in service.

Once connected to your "A" battery the **Balkite Trickle Charger** may be left on permanent or trickle charge. Instead of operating intermittently at a high rate it operates continuously at a low rate, automatically keeping the battery at full power.

The **Balkite Trickle Charger** thus practically eliminates the attention usually required by the battery. In effect it converts your "A" battery into a complete power unit that supplies "A" current from the light socket.

It is noiseless in operation, so that in most instances it can be used during reception. It is very compact and small, and its current consumption is very low—approximately 1/2c. to 1 1/2c. per hour of reception.

This charger can be used as a trickle charger with any 4-volt "A" battery. With 4-volt batteries it can be used as an intermittent charger of the usual type. Or as a trickle charger, if a resistance is added to cut down the charging rate. The charging rate is approximately 5 amperes. Operates from 220-240 AC and 50 cycles.

Price :: £4/7/6

Sole Agent:

**O. H. O'BRIEN (LATE O'BRIEN  
AND NICHOLL)**

37/39 PITT ST., SYDNEY

516 COLLINS ST., MELBOURNE

W. E. PETERMAN, 160 Edward St., Brisbane

- 12 noon.—Time Signal, British Official Wireless news from Kuala Lumpur and the Australian Press Association. Cable "Argo" and "Herald" News Services.
- 12.30 p.m.—STUDIO ORCHESTRA. Selection, "March" (Fronzi).
- 12.50 p.m.—WIN AND WINDLE. Dialogue, "The Way to the River." (Hutchings) (Fronzi).
- 1.10 p.m.—Stock Exchange Information.
- 1.25 p.m.—STUDIO ORCHESTRA. "Hush" (Hutchings) (Fronzi).
- 1.30 p.m.—GOSSELL GILFELLOW. Tenor. "Dramatic Long Ago" (Fronzi).
- 1.40 p.m.—"Cable For O. G. News" (Fronzi).
- 1.45 p.m.—WALTER SMYTH. Comed. "What my Curlew Has Bred." (Fronzi).
- 1.55 p.m.—Special Info. of Day.
- 2.00 p.m.—STUDIO ORCHESTRA. "Twilight Reverie" (Fronzi).
- 2.00 p.m.—Description of Elizabethan Herald, Cañfield Race by "Masket" of the "Sporting Globe."
- 2.15 p.m.—LYD DECK. Comedian. "Wishes on the Brain."
- 2.25 p.m.—GOSSELL GILFELLOW Tenor. "His Father's Son" (Hutchings).
- 2.35 p.m.—STUDIO ORCHESTRA. "Fairy from 'The Sunman's Life'" (Hutchings).
- 2.50 p.m.—Close Down.
- 3.00 p.m.—Description of Kalanda Two-Years Old, Cañfield, Close Down.
- 3.25 p.m.—League Football, MELBOURNE v. RICHMOND, Description from Melbourne Cricket Ground.

## AFTERNOON SESSION

- JOE ARONSON AND HIS SYMPHONISTS.
- 3.30 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
- "Sunday" (Hilli).
- "By the Sign of a Pine" (Fiddler).
- 3.5 p.m.—Description of Glyndor's Cup, Cañfield Race by "Masket" of the "Sporting Globe."
- 4.15 p.m.—League Football, MELBOURNE v. RICHMOND, Quarter Time, Description from Melbourne Cricket Ground.
- 4.25 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
- "Hello, Little Girl of My Dreams" (Hilli). "The Trivial Matter, Boston" (Hutchings). "Hello Aloha" (Hilli). "Let's All Hurray Ford" (Lewie). "Consolation" (Hilli). "Bicycle" (Hilli).
- 4.45 p.m.—Description of Nectin Steeple, Cañfield Race, by "Masket" of the "Sporting Globe."
- 4.55 p.m.—League Football, MELBOURNE v. RICHMOND, Half Time, Description from Melbourne Cricket Ground.
- 4.55 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
- "The More We Are Together" (Hilli). "Merry Lou" (Lewie). "Blue Face" (Hilli). "Someday a Loner" (Hilli). "Just One More Kiss" (Hilli). "The Trivial Matter" (Hutchings). "Hello Aloha" (Hilli). "Let's All Hurray Ford" (Lewie). "Consolation" (Hilli). "Bicycle" (Hilli).
- 4.55 p.m.—Description of Glyndor's Cup, Cañfield Race by "Masket" of the "Sporting Globe."
- 4.55 p.m.—JOE ARONSON AND HIS SYMPHONISTS.
- "Just a Bird's Eye View" (Denison). "Thinking of You" (Ash). "Princess Betty's Lullaby" (Stanhams). "Home Marie" (Fronzi).
- 4.55 p.m.—League Football, MELBOURNE v. RICHMOND, Three-quarter time, Description from Melbourne Cricket Ground.
- 4.55 p.m.—"Herald" News Service: Stock Exchange Information.
- 4.55 p.m.—Description of Brighton Handicap, Cañfield Race, by "Masket" of the "Sporting Globe."
- 5.0 p.m.—League Football, MELBOURNE v. RICHMOND, Full Score, transmitted from Melbourne Cricket Ground.
- 5.10 p.m.—Close Down.

## EVENING SERVICE

- 5.30 p.m.—Service, 7-11.
- 5.45 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.

0.55 p.m.—"LITTLE MISS KOOKABURRA" will tell her little Kookaburraettes about "Puss and Patch" (the family notes, who ran away from home)

0.57 p.m.—RUXHAM'S SERENADERS, in something entertaining for the children, as well as Banjo Selections by THELMA READY.

0.20 p.m.—CAPT DONALD MACLEAN.  
How Pierre Le Grand took the Spanish Vice-Admiral's Great Treasure Lullaby."

0.15 p.m.—"Argus" and "Herald" News Services. Weather Information Aerial Mail information by the Australian Aerial Service, Ltd.

0.47 p.m.—Stock Exchange Information Overseas Shipping.

0.52 p.m.—Fish Market Reports, by J. R. Barrett, Ltd.

0.55 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd. New market Sheep Sales; Potatoes and Onions Fruit Market Reports, by the Victorian Wholesale Fruitgrowers' Association, compiled by "The Fruit World," exclusive to R.O.

#### NIGHT SESSION.

Speakers:

MR. EDWARD SIMMS, MR. F. CHAPMAN,  
DR. LEACH, DR. BROOKE NICHOLLS,  
BRUNSWICK CITY BAND, Conductor,  
RUSSELL CALLOW, Tenor,  
MOANA LUA DUO,  
MADAME LAMBERT,  
THE FUTURISTS,  
GRACE AND KEATS,  
NEEL CRANE,  
WIN AND WINDLE,  
Announcer . . . . . MAURICE BUDLEY  
Accompanist . . . . . AGNES FORTUNE

7.15 p.m.—MR. EDWARD SIMMS, Secretary Commonwealth Railways.

"Uniform Gauge for Australian Railways."

7.30 p.m.—MR. F. CHAPMAN,  
"Natural History of Opals."

7.45 p.m.—DR. LEACH,  
"Pelicans or Gannets."

8.0 p.m.—DR. BROOKE NICHOLLS,  
"The Barrier at Low Tide."

#### POPULARITIES

8.15 p.m.—BRUNSWICK CITY BAND,  
March, "Steel for Steel" (Home).

8.20 p.m.—RUSSELL CALLOW, Tenor,  
"Prelude" (Romantic),  
"Dolores" (Phillips)

8.27 p.m.—MOANA LUA DUO,  
Hawaiian Melodicy.

8.34 p.m.—MADAME LAMBERT, Soprano,  
"Valse Cent Vierge."

8.41 p.m.—BRUNSWICK CITY BAND,  
Overture, "The Diamond Cross" (Greenwood).

8.50 p.m.—RUSSELL CALLOW, Tenor,  
"Like Stars Above" (Squire),  
"From the Land of the Sky Blue Water" (Cudman).

8.57 p.m.—MOANA LUA DUO,  
"Island Memories."

9.0 p.m.—MADAME LAMBERT, Soprano,  
"Valse Musette."

9.12 p.m.—"THE FUTURISTS" present their  
Radio Tourists,  
"Wireless Wars."

The Futurists introduce themselves and sing an Opening Chorus.

IRA VANDA asks you to meet her Rag Time Army.

Tabloid. A series of Sketches introduced by Gus Dawson.

(Note.—Each of these sketches will only take a few seconds.)

IRA VANDA and GUS DAWSON sing "Lena Schmidt," followed by a Dutch Clog Dance.

CYRIL NORTHCOTE will give a dramatic nautical recitation with the assistance of Deasy.

## Does this answer your question?

**Owner:** Personally I prefer the Philco "A" and "B" Accumulator Batteries, but a smart salesman persuaded me to buy an Eliminator. Now my results are not as good, yet my yearly costs are higher. Why?

**Expert:** Eliminators are always more or less noisy, and it is often difficult to cut out the A.C. hum, with roar and buzz. Buyers, too, are frequently disappointed because Eliminators, especially the cheaper sort, do not deliver sufficiently high voltage.

**Owner:** What about Philco batteries?

**Expert:** There you have absolutely pure D.C. current without variation, giving the finest reception. You can be certain of Life, Distance, Volume and Clarity.

**Owner:** That was my own experience with Philcos. Now get on to the costs.

**Expert:** In using an Eliminator you are working with electric light current, which fluctuates. Fluctuating current plays havoc with valves—and you cannot blow out costly valves and look pleasant. Of course Eliminators which use the new Raytheon tube for rectification are more economical than Eliminators employing ordinary valves.

**Owner:** That's a good tip anyhow. Now what about a saving in charging?

**Expert:** Even with an Eliminator you have to buy a Charger for your A battery. With the A and B Philco Batteries you also need a Charger, but the cost of recharging is only a few pence every three or four months. Where does the Eliminator save anything?

**Owner:** Well, if by using the A and B Philcos I can get better results and save money as well, why on earth did I buy an expensive Eliminator?

**Expert:** Ask that smart salesman! I can't tell you.

All High-class Dealers sell Philco Batteries.

Wholesale Distributors:

New System Telephones Pty. Ltd.

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

Charles St., Adelaide

## All Readers' Queries Answered Here

IRA VANDA sings "There'll be Happy"  
 C. W. DESMOND becomes a perfect lady  
 and takes you into her confidence  
 The company tells you to "Have your  
 correct till tomorrow"

8.42 p.m.—BRUNSWICK CITY BAND,  
 Selection, "Irish Air" (Vol. 1).  
 8.50 p.m.—GRACE AND KEATE  
 Piazzetta, Piaccata and a Piano.

10.0 p.m.—"Argus" News Service, British  
 Official Wireless News, Announcements.  
 10.10 p.m.—BRUNSWICK CITY BAND  
 Intermède, "Waltz" (Vol. 2).

10.17 p.m.—NELL CRANE, Comedienne,  
 "Radio Girl" (Lawrence).  
 "When Florida Found Her First Five Male."

10.25 p.m.—WIN AND WINDLE  
 Comedienne, "Is Myself Have Been."  
 10.35 p.m.—BRUNSWICK CITY BAND  
 Waltz, "Prairie Flower" (Greenwood).  
 March, "Old Glory" (Hansen).

10.45 p.m.—Meteorological Information; Sport-  
 ing Results.  
 11.0 p.m.—JIM GREAT THOUGHT.  
 "That nation is worthless which does not  
 joyfully stake everything on her honor."

11.1 p.m.—JOE ARONSON AND HIS SYN-  
 COPATING SYMPHONISTS.  
 "Baby Face" (Davis).  
 "At Home With The World" (Berzin).  
 "Hi, Diddle, Diddle" (Coan).  
 "Napoleon Night" (Zamenick).  
 "Pencils" (Whittle).  
 "Katsika" (Tobias).

"Fire, Fire, Fire, Turn The Head Oh Me"  
 (Gay).  
 "Princess Betty's Lullaby" (Hoskins).  
 "Any Lee To-day, Lady" (Holtard).  
 "Gimme A Little Kiss, Will You?" (Tark).  
 "How Marie" (Hend).  
 "Indian Love Call" (Frini).  
 "No Foolin'" (Oswain).  
 "Howing Off Back" (Davis).

11.40 p.m.—GOD SAVE THE KING.

### 4QG. BRISBANE

Saturday.  
 NO MIDNIGHT TRANSMISSION.  
 AFTERNOON SESSION.

The complete Afternoon Service will  
 be played from the Remond Hay Adventist  
 Church at South Brisbane.

8.30 p.m.—Opening hymn: "An Open Bible  
 for the World"; words H. M. King, D.D.,  
 music W. B. Kirkpatrick. Hymns read:  
 Roman, Chapter 8; (Invocation); "I  
 Sought and sang; sole; hymn, "I Reached  
 the Land" (words J. Sage, music J. R.  
 Swears); versus: "The Decline Influence  
 of the Ten Commandments, and the conse-  
 quently Moral Degradation," by Pastor A.  
 C. Cleaves; HYMN: "A Child With Me" (words  
 H. P. Lyle, music W. B. Monk); Bened-  
 ction.

8.50 p.m.—Close Down.  
 EARLY EVENING SESSION.

8.00 p.m.—Children's Session—Bedtime Stories  
 by "Uncle Sam" and "Uncle Jim."  
 7.15 p.m.—Racing News; Football Results.  
 7.10 p.m.—Reading Notes by "Hiller."

### NIGHT SESSION.

9.05 p.m.—Reading Talk, "Hedges and  
 Hedge Plants"; by "Thomas".  
 8.0 p.m.—From Gaiety Theatre, Townsville.  
 Orchestral Music.  
 8.30 p.m.—From the National Speedways:  
 Motor Cycle Race; Cycle race; 2. R.  
 Swears; versus: "The Decline Influence  
 of the Ten Commandments, and the conse-  
 quently Moral Degradation," by Pastor A.  
 C. Cleaves; HYMN: "A Child With Me" (words  
 H. P. Lyle, music W. B. Monk); Bened-  
 ction.

9.00 p.m.—From the Studio: "The Sunday  
 Mail" News Service; "Wireless News"; Close  
 Down.

H.C. (BARRWOOD)—I can't compare re-  
 ceivers. The result obtained with each set  
 is published.

SAT (MY. COLAN)—Glad to hear good  
 news.

W.E. (DUNGOO)—Yes, senders of the  
 same brand and model will give matched results  
 on the dial with a super-heterodyne.  
 The result was O.K.

W.R. (BALMAIN)—See "W.W." 28/1/27.

V. Mel. (DEE WHY)—Your wire is not  
 double. Glad to know of your results.

D.P. (GULLFORD)—Build the crystal set  
 in "W.W." 18/4/27.

C.H. (CAMPELDOWN)—Build the Heterodyne  
 One-Valve as in "W.W." 22/10/26.

J.B.G. (MR. LEMOIR)—The devil you know  
 is better than the devil you don't know.  
 So hold it as the one opposite you.

S.F. (LEISLARI)—We have no copies  
 of 3/1/28, so I can't advise you.

G.W.J. (BURBY HILLS)—Frasonic trans-  
 formers would be an advantage. Try it. The  
 charger will shortly be described. Book num-  
 bers sent.

A.G. (MORFIELD)—It is not difficult for  
 me to advise you without seeing the receiver.  
 Take it along some good radio "babe".

O.L.P. (HURSTVILLE)—Aerial seems O.K.  
 See first who said so.

J.K.D. (HURSTVILLE)—This is purely a  
 local receiver.

P.A. (BARRAMATTA)—Build the Heterodyne  
 One-Valve as in "W.W." 22/10/26.

H.V.E. (LONGCREAK, Q.)—The Zaphiro  
 $\Delta$  is the only thing to be used.

A.R. (HURSTVILLE)—The transformer  
 is satisfactory. Double to American H-P.  
 OP Hals. 1-3 and F. 18 and G. 5.

A.N. (BRANDWICK)—This valvet is well  
 treated. It will serve shortly.

S.M. (HURSTVILLE)—1) Aaa good  
 valve. (2) No. (3) No. (4) No. 28.

R.P.E. (HURSTVILLE)—Adhere strictly to  
 the set. The 5000 Condenser is O.K. as is  
 also the neutralizing condenser. Are your  
 batteries and valves in good order? If the  
 local station is heard, note the position of  
 the moving plates of your condenser in relation  
 to the fixed plate. Perhaps a few  
 turns less on the coils would help you.

A.W.T. (COOBBE)—Look to your E-  
 lectrolyte in your valve and mount the  
 set carefully along the coil over which it is  
 wound.

A.F. (HURSTVILLE)—The standard connec-  
 tions are O.K. You haven't the correct E  
 battery. The batteries, 30 and 100 cells are  
 required. Reverse connections of primary of  
 E.P.T. and also crystal connections. This  
 should be in "W.W." 10/1/27.

C.F.C. (SWSWICH, Q.)—The paper has  
 been forwarded. The Radiohm is an advance  
 set and use a 8 ohms or a 10 ohm rheostat  
 for the I.T.P. valve.

G.F. (HARRFIELD)—First (A) layout is  
 correct.

W.H.R. (ALPHA, Q.)—The neutrodyne  
 would be a much better circuit. See "Radio"  
 7/1/27 for layout and description.

H.A. (ALBURN)—To be certain I should  
 recommend you a Brumwing Drake or a Neu-  
 tradyne.

W.L. (WOOLFIELD)—The Marvel is de-  
 signed for local reception only. It is not in-  
 stantly sensitive to being in inter-state or  
 your area.

E.T. (WILLOPOHRY)—The Extraordinary  
 One Valve is difficult to make work with  
 audio frequency need. The battery set up at  
 H.P. potential, hence plate disconnecting to  
 overcome it. The Galvala circuit could be good,  
 but why not add a straight on transformer  
 coupled auto? It is best for one stage. I  
 don't recommend the other system for one  
 stage. Use the set connected across the  
 primary of the audio transformer.

R.E.M. (JANDWARAE, Q.)—I wouldn't like  
 to say that the Neutrodyne will bring to Syd-  
 ney and Melbourne in daylight on the last  
 week-end. Even a slight heterodyne with 8  
 valves might not be too good. Write again  
 telling me if you know of anyone in the dis-  
 trict as getting daylight reception.

C.F.O. (GULLFORD)—4 plate cond. 60005.  
 Harmless.

W.A.S. (FAIRFIELD)—Condensers right,  
 also K.H. but match condenser to "W.W." 22/  
 10/26 for further particulars. Filter valve  
 is O.K. Use Filtercap on R.F. valves.

G.E. (MABOOT)—A small 6000 fixed-con-  
 denser in series with the plate will not correct.  
 Radiohm not necessary. Anthony Herdroyd's  
 for choiciness. In series with the coil, in series  
 with the grid and filament leads of the  
 first 6000 valve of the 1000 or 1500 valve.

W.A.S. (ALBURN)—O'Brien O.K., but why  
 not the Marco 4 of the 8/1/26.

C.P. (LUDGEMERE)—There is either a loose  
 or a wrong connection somewhere. Get a  
 friend to check over with you. Look to the  
 detector valve.

H.S.M. (GRINE VALLE)—Just a Good  
 Two-Valver" in "W.W." 22/2/27 would be  
 more suitable.

R.L.G. (WHITFIRE, Q.)—Carbons of  
 Amplex, Ltd. would be better. Write them.

R.E.A. (HANGALU)—What do you expect  
 to receive on 20,000 meters? Well, if the  
 broadcast wave band for a while, then if you  
 desire more transmission on 30,000  
 you have to choose a valve set in the same  
 all through operating at the smaller band  
 20 to 40 meters. Inductives require the  
 aerial statics the rectifier more sensitive.

H.V. (KERNINGTON)—Yours is a good  
 wire tray. The extra parts specified are  
 if you haven't. Increase the value of the  
 battery or the detector plate and have a  
 short aerial.

S.H. (ALBURN)—Yours is not a short aerial,  
 merely making the 6 ohm  
 rheostat to carry too much current, hence  
 heating. Install a Rheostat or an E-memo-  
 del No. 1. These will carry the current.

A.R.C. (RYBIE)—I am afraid that a Neu-  
 tradyne in your case hope in your locality.

R.M.M. (KILLARA)—The aluminium  
 should be raised or lowered in the solution to  
 find the best charging point. See letter on  
 subject in "W.W." 18/2/27.

R.H.G. (MAGILL, S.A.)—The panel is  
 suitable and the extra parts specified are all  
 that is required. Don't attempt to use a single  
 condenser instead of binary. Your tuning  
 would be too broad.

E.A. (WALLBEND)—Can't understand it  
 myself as normally I have at least a 100  
 meter bulb from the self same components  
 and the results are wonderful. Look to your  
 neutrodyne which may be faulty. Return  
 them to Metropolitan Elec. Co. of 27 King  
 Street, Sydney, for test.

B.D.W. (SCEPTAL BAY)—Try using a  
 5000 fixed condenser in series with the aerial.  
 The transformers are of ten by a ratio to be  
 convenient in the same set. Use 250 to 1 in  
 the second stage.

E.V.C. (NEWTOWN)—Try reversing the  
 primary connections on one or all of your  
 neutrodyne. The lamp may be connected  
 across the aerial and earth terminals or you  
 may disconnect the grid and filament leads of  
 the first neutrodyne and connect the lamp direct  
 across these two connections.

G.M. (GRANVILLE)—See "W.W." 28/1/27.

F.I. (DOWER SOUTHGATE)—It is easier  
 and cheaper to purchase one as the small  
 quantity of wire required cannot be bought  
 cheaply.



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"MARITANA." Listeners who are fond of those English Operas so much in vogue a decade ago will be delighted to know that a series of Concert performances of some of the most popular of these Operas has been arranged by Studio 3LO and will commence on April 27, when Madame Ethel Ashton, assisted by her pupils, and other well known principals, will produce "Maritana." Madame Ashton has spared neither time nor trouble in making this performance as artistic as possible, and whilst the old Airs "Scenes that are Brightest" and "The Harp in the Air" will revive memories in the hearts of the older Listeners, the sweet melodies of Wallace, will make countless friends among the younger generation.

AMERICAN AMATEURS have discovered that their local Chamber of Commerce will print their QSL cards free of charge. Anyone willing to approach the Sydney Chamber of Commerce on the subject? QSL cards are indeed a wonderful advertisement, and though most of them explain "The sun always shines here," a few of them are something well worth reading as an advertisement. 3BQ, when at the zenith of his fame, produced a card which not only had a map of Australia on it, but contained detailed information of the country. Population, size, products, etc., were all enumerated. The only thing ever disputed upon it was "Melbourne, the Queen City of the South."

SAFETY FIRST: The new wireless telephone to New York costs five pounds per minute. Scotsmen with weak hearts are advised to send post-cards as usual.

The names of the Philco Rechargeable and Burgess Dry Batteries are among those most familiarly known in the radio world to-day, and those conversant with their individual merits and also with the "service policy" of New System Telephones Pty., Ltd., representatives for these batteries, will be interested to learn that Mr. J. I. Carroll, N.S.W. manager, is now on his way to America to discuss further progressive policies with the manufacturers of each battery.

So extensively have the "Philco" and "Burgess" been adopted by radio users that the efforts to meet the demand have often been taxed to the utmost and the beneficial result of Mr. Carroll's visit should be speedily enjoyed by Australian set-owners.

Incidentally, Mr. Carroll's business trip is also a honeymoon, his bride being a popular member of Sydney society.

THE SPEECH of President Coolidge before Congress on February 22

was broadcast from no fewer than thirty-seven stations, so making the largest S.B. "chain" which has yet been undertaken in the United States, or, in fact, in any other country in the world. Approximately 25,000 miles of landlines were used for this broadcast. KDKA, Pittsburg, and 2XAF, Schenectady, both transmitted the speech on 63 metres and 32.73 metres respectively.

MR. A. J. SCOTT DACK, A.M.I.R.E., late of the wireless staff of the "Oronway" and now on the R.M.S. "Raupura," writes the following from Bombay—"On my last trip home on the "Oronway" I managed to hold on to Station 2FC, both for speech and music with the utmost clarity, until we reached the Indian Ocean. I was only using 3 valves and it was not until we were 5,705 miles distant from Sydney (as the crow flies) that we at last lost your Station. I have met quite a number of wireless fans on this run, who are constantly picking up your station in the East."

MR. L. E. PAGE, director of the Hull relay station of the B.B.C., will leave England shortly to become director of the Indian Broadcasting Company's new station at Bombay.

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