

WIRELESS WEEKLY

Broadcast Programmes a Week in Advance

VOLUME 11

Registered at the G.P.O., Sydney, for
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NUMBER 2



Friday, November 4, 1927.

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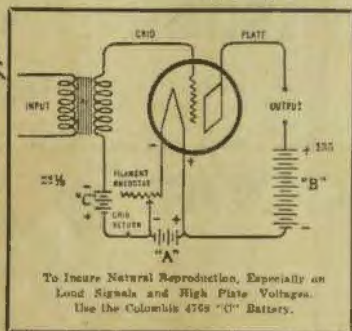
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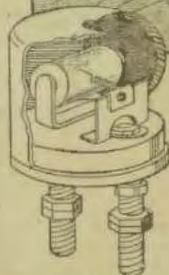
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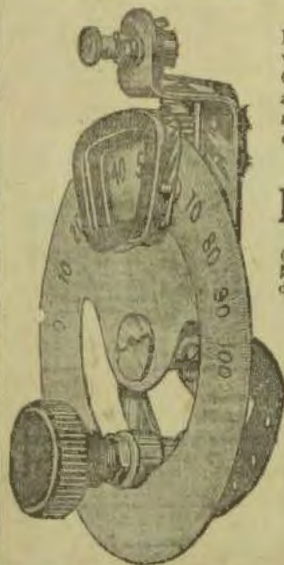
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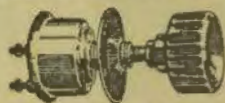


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WIRELESS WEEKLY

VOL. 11 No. 2.

FRIDAY, 4th NOVEMBER, 1925.

The Saturation Point in Broadcasting Services.

THE continued increase in listeners' licences, especially in Victoria, to a degree that exceeds the ratio to population of England has caused people to talk of the "saturation point." It is argued by some that the number of listeners has reached pretty near the limit, that the maximum number of listeners that can be expected is within sight.

This saturation point or maximum density has frequently been applied to discussions concerning other industries. The motor industry, the phonograph industry, have similarly been examined and wiseacres shook their heads and said in effect—we cannot expect to sell many more. But despite these calculations, the sales continued. Even with the sewing machines, the saturation point has often been threatened.

With broadcasting the problem of discovering just when the maximum number of sets or licences is to be reached is more difficult, particularly so with listening equipments.

The types of sets are so variable and various, and the development in new "hook-ups" and methods so rapid, that it is well nigh impossible to say when the demand will fall down to the supply. Sets in use will deteriorate or go out of fashion, better or simpler methods of control will be evolved, and consequently people will change their sets. Thus the replacements of existing receiving equipments or the use of auxiliary sets will be almost as great as the

new sets representing additions to the great body of the listening public.

The cheapening of sets and of component parts will also be a factor of no inconsiderable importance in supplementing and adding to the number of sets in use.

Thus, one might argue that the radio trade will be in no danger of declining into slackness, but signs of a flattening out of the curve of licence development will not be unexpected. The extraordinary result of the concentration on service by 3LO Melbourne, whereby over 150,000 licensed listeners have paid for their services, is an indication that people in large numbers can be induced to listen without any serious flagging of interest. But the point is coming in the curve, when it will tend to flatten out, new listeners will not be so easily found.

The responsibility of the station then will be as great or greater than before, no slackening up can be allowed. It will be just as necessary then to concentrate on every aspect of the service as at present, so that the subscribers and patrons may be retained. It behoves all broadcast enthusiasts to remember the element of co-operation, and to help the broadcasting company, by assisting neighbors in the operation of sets, and by making helpful and useful criticisms of the service. Thus may we expect to find broadcasting in all States developing safely.

Catching Up with the Wireless World.

By R. E. CORDER.



JAP SHORT WAVERS: The following Japanese Government Stations are operating daily on 40 to 80 metres.—JES, KEW, JBK, JKV, JBY, JYZ, JHL, JPS, JPP.

IN THE ARGENTINE: Popular enthusiasm for wireless in the Argentine has developed to such an extent that there are now approximately 150,000 holders of receiving licenses. The majority possess crystal sets, but valve receivers are coming into favor.

A LISTENER, writing to lecturers, says: "The lecturers broadcast by 4QG are very helpful to us. I have four sons, twelve to eighteen years of age, and although we have only had a wireless set six months there is a marked improvement in the speech and general knowledge of my boys. We can find something in every lecture to interest us."

BEAM DEVELOPMENTS: The mildly exciting rumor which gained ground recently in London, to the effect that the Marconi Company would shortly inaugurate beam telephone services to North and South America, owed its origin to a newspaper printer's error. The services will be by beam telegraph. Whilst the inauguration date is uncertain, we understand that it will be in the very near future.

LEAGUE OF NATIONS WIRELESS: That the League of Nations should possess two wireless stations for disseminating news of international interest is the considered opinion of experts consulted at the present session. It was agreed that the establishment of a powerful station with a world-wide range was impossible on the ground of expense, but if the additional expense was not very great the transmission of information and debates by wireless might be contemplated. In that case the wireless station should have a range covering the whole of Europe. It was also agreed that a relatively powerful short-wave transmitter would give the required results, as regards communication with non-European countries.

"THERE'S much to be said on both sides," said the transatlantic telephone operator.

ARRANGEMENTS are being made to broadcast the sounds of a London newspaper office. One interesting item would be the feeding of the poets.

A: "Do you understand mortgages?"

B: "Yes, the first is for the purchase of a radio set and the second is for the upkeep."

THE FEDERAL RADIO Commission of America is considering halving the broadcast stations. Personally, we would even go farther. The tenors should be quartered and the announcers minced.

IT WAS AN ABERDEEN listener, of course, who called at the Post Office and blandly inquired if his license could be supplied at half the usual fee, as he had become deaf in one ear!

UNCLE GEORGE'S "Goodnight" has been heard in many places, and the latest is on the coast of South America. The captain of a sailing-vessel at present at anchor in Sydney Harbor called in at the studio a few days ago to inform Uncle George of this. It is interesting to know that this sailing-vessel anchored in quarantine, after a very stormy passage, and tuning in to 2BL, heard an account read of the hardships they had encountered while crossing the Pacific.

THE EXCEPTIONALLY heavy mail that continues to arrive at 4QG gives some indication of the fact that bedtime stories are not losing their charm. Recently the "Sandman" conducted a competition for the kiddies and more than 2,500 replies reached him. The competition was carried out during the recent railway dispute, when no trains were running, and in several cases, kiddies in country districts telegraphed their replies rather than have them delayed, and so miss being entered.

TO CALL THE FAITHFUL: Calcutta's newest masque is to be fitted with loud speakers and valve amplifying equipment.

A LADY WROTE to Mrs. Jordan (2BL) asking for advice as to how to take tar out of her husband's trousers. The burning question is: Should an enquiry like that come under the category of the Women's Session, or not?

ROME AND RADIO: "More church broadcasting stations" is a slogan of the "Osservatore Romano," the official organ of the Vatican, which decries certain phases of broadcasting as at present practised. One indictment brought against broadcasting is that it causes waste of time by creating the habit of listening in at all hours of the day. But is this waste of time?

B.B.C.'s SHORT-WAVE STATION: It is now an open secret that the short-wave Empire broadcasting experiments are to be conducted at the Marconi Company's works at Chelmsford. The fact that the B.B.C. will work in close association with the Marconi engineers augurs well for the Empire scheme, for the Marconi people are experts in the domain of the short wave, with which the B.B.C. is less familiar, while the B.B.C. engineers have little to learn in connection with the microphone work. A happy combination.

A CHANCE TO HEAR CHINA: With the opening of XOL, the city of Tientsin, China, now has two broadcasting stations. XOL, which is owned by the Chinese Government radio administration, employs a power of 500 watts with a wave length of 480 metres. The programmes consist of gramophone music and concerts from local cafes, in addition to certain market reports. The other broadcasting station in Tientsin, writes a correspondent, is owned by the Gisbo Electric Company, a Japanese electrical firm. This station is restricted to the modest power of 50 watts.



EFC Artists who sang the National Anthem for the benefit of London listeners on October 11 on the occasion of the Second Empire broadcast. Mr. Ewart Chapple at the piano.

King May Shortly Address Australians

THE British Broadcasting Corporation, which controls all broadcasting in Great Britain, has informed the Radio Broadcast Bureau, Sydney, that it is of opinion that the time is close when it will be able to invite the King to address his 450 million subjects throughout the world by word of mouth.

This communication was made in view of the recent progress in broadcasting from one part of the Empire to another. Within the past few days 2FC radiated a programme on two wave lengths simultaneously—28.5 metres for overseas reception and 442 metres for reception in Australia and New Zealand. This was heard in England and part of the programme was re-broadcast by the British Broadcasting Corporation so that listeners throughout the United Kingdom could hear.

It would be useless to suggest that the reception was entirely satisfactory. Listeners in England were certainly thrilled to hear the great broadcasting station in Australia, but there was considerable distortion, showing the need for further experience before world-wide radio is completely reliable.

Empire Broadcasting Chain Nears Completion

The British Broadcasting Corporation informs the Radio Broadcast Bureau that at the present rate of progress the inauguration of an Empire broadcasting service from Britain will depend upon the results of a new series of experiments which are being carried out this month.

EMPIRE BROADCAST: It is one of the remarkable facts in life that "it's the little things that count." When mighty Germany attempted to brush modest Belgium from her path, that gallant little country proved she was a power to be reckoned with, despite her meagre population. When 2FC sent the Australian radio call throughout the length and breadth of England, in co-operation with the all-powerful British Broadcasting Company, history was made, and even the most blasé listener thrilled at the wonder of it all. But the giant Lend-an broadcasting machine casually accepted this feat, and went its way. "You have just heard the Savoy Orchestra play . . ."

But 2FC, tiny unit in the radio world, proved that it too was a power

to be reckoned with. A second programme was arranged for overseas broadcast, on dual wavelength for the benefit of local listeners, and London's teeming listening millions once more stood tip toe on expectation. It is a curious contradiction that after twenty-three minutes, BBC discontinued the relay, "owing to atmospheric conditions." Yet amateurs from near and far poured indignant letters of protest into the papers, together with indubitable proof that Australia's programme had been heard, by a concise logging, not only of musical items, but of announcements and messages.

The pen of one cartoonist offered a caustic solution. BBC's engineer, with one hand on the control, and the other desperately straining a telephone receiver to his ear. "Yes, darling, I'll come along right away . . . Important programme? No, it's only Australia!"

The Press, wholehearted in its condemnation, aroused the Corporation to unusual activity, with the result Station 2FC received a cable asking for a special programme for relay, on Monday morning, 31st October, between 3.45 and 5.30. Of a surety, "great oaks from little acorns grow."

Burgess Went Over the Pole with Byrd.



The Safety Valve

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

!!!

Dear Sir,—Correspondents have said little about the greatest curse listeners-in have to put up with, that is, interference by Morse from ships and land stations. Static and fading are bad, but they are from natural causes, but Morse interference is avoidable and surely listeners who pay a license fee are entitled to some protection, it seems to me to be merely a matter of altering those wave lengths.

So far as I can discover, not a word was said on the matter during the Commission enquiry. Personally, I have spent a large sum on a set, but I think if present conditions continue, I will sell out cheap and buy a gramophone. Morse interference is even worse than howling sets, and heaven knows they are bad.

Another growl I would like to get off my chest, "but only a mild one," why on earth do our A class stations broadcast so many plays? If we have seen the play we don't want to hear it again, unless it's very good, and if we have not seen it, it's senseless, for we have no idea what is going on. Is this class of broadcasting cheaper?

Yours, etc.,

Yamba.

DISGUSTED.

LESS GAMBLING NEWS.

Dear Sir,—I quite recognise that those interested are entitled to some such service as the broadcasting stations are giving in the matter of horse racing, but I think that it should take its place with other matters and be confined to the news sessions and not be forced on those who tune in for the ordinary programmes. Gambling is a growing menace, and the broadcasting companies have a public responsibility in setting a more effective limit on their services. You have just taken a referendum on the matter of limiting religious services, why not consider another one? (1) Should programmes be interrupted with racing information? (2) Should such information be confined to news sessions, except on special occasions? (3) Are you interested in the broadcasting of racing information?

Yours, etc.,

Grafton.

F. R. SWYNNY.

"W.W." SHORT-WAVE SET.

Dear Sir,—In your issue of July 15 you published a circuit, with full details of a three valve low loss set, adaptable to ordinary broadcasting bands as well.

I am pleased to be able to confirm your remarks regarding the set. I have been working a set, built on the lines indicated, for about six weeks, and I must say it has exceeded all expectations. As a receiver for broadcast stations it is a marvel. It is no trouble to bring in all the Australian broadcast stations with speaker volume to spare, but 1YA, 2YA, and 3YA, New Zealand, come in splendidly. As a short-wave receiver it will be hard to beat. My first "kill" was the short-wave of 6WF, Perth, the whole musical programme being easily logged. So clear was the reception that the words of a singer could be picked out. Since then stations all over Australia and New Zealand, with a sprinkling from America, are picked up on the short wave bands daily. On four nights during the past week the Russian station RFN has been logged with ease, and sufficient volume to fill the room on the speaker, using three valves. Of course only two valves are used on the 'phones. The reception of the latter station was wonderfully clear. The hours were 12.45 a.m., 8 to 9 p.m. and 11.15 p.m.

Yours, etc.,

R. N. SHAW.

Wauchope.

TUNED IN RUSSIA.

Dear Sir,—Using a short wave adapter, as described in "Wireless Weekly," of the 9th instant, I have been successful in tuning in regularly the Russian station, RIFL, situated at Nichn, Novgorod.

The programme is heard with remarkable clarity at loud speaker strength and can be tuned in very easily, the wave length is approximately 25 metres and the station signs off at 9 p.m., Sydney time.

Trusting this information may prove useful to your readers.

Haberfield.

G. A. ANDREWS.

DISAPPOINTED.

Dear Sir,—I would like to express my disappointment over 2BL's programme on Friday night, October 21. The evening session of 2BL programme, as published, was Radio Dance night, in aid of the Limbless Soldiers' Aquatic Association with a request to arrange a dance in our homes and subscribe a little to the Association, and to tune in to 2BL for dance music. We invited friends, went to the trouble of preparing room for dancing, tuned in to 2BL and listened to lectures, etc., until 9 o'clock, with one or two dance pieces, which were simply announced dance music. The guests not knowing what dance, therefore, could not select their partners. Then to make matters worse we were switched over to the stadium for a wrestle, the worst thing on the air. We became disgusted and closed down and resorted to piano and violin for music.

I hope when 2BL arranges a like programme again, they will keep to it and not switch over to wrestling, and to disappoint many who endeavor to assist a great and worthy cause.

Yours, etc.,

E. F. TAYLOR.

Durckenfield.

THE MARINKAY.

Dear Sir,—Some time back you published "The Marinkay Singing Valves." Well, so far, that circuit has lived up to all that you said of it in volume and distance.

This circuit was built at home, and using a UV199 valve, the results obtained are more than gratifying. The stations received so far on this set are: 2BL, 2FC, 2GB, 2BE, 2UW, 2VE, 2W1, 2KY, 2ME, 2GO, 2GU, 2QB, 3AR, 3LO, 4QG, 5CL, 7ZL, 1YA, eighteen in all.

We have made several sets, with the same number of valves, and up to the present we have found that the "Marinkay" is the best circuit.

The volume that come from local and distant stations is excellent.

Thanking you and your paper for this excellent circuit.

Edgecliffe.

ALAN C. THOMAS.

You can Recharge a Philco for a few pence.

It's All in the Air

Coming Features in the
Broadcasting Programs

STUDIO BOYS: Johnston's Studio Boys are in the programme again at 3LO, Melbourne, on Saturday, November 4th.

"WELCOME BACK." Alice Prowse, comedienne, who has just returned from a successful tour of New Zealand, has commenced a further series of appearances at Studio 2FC. She appears on Thursday, 3rd November.

ARONSON'S SYMPHONY ORCHESTRA: On Sunday evening, November 6th, Joe Aronson's famous Symphony Orchestra will render a special programme at 3LO, Melbourne.

ANOTHER BALLARAT BROADCAST: The anniversary service at the Pleasant Street Methodist Church, Ballarat, will be relayed to Melbourne, and broadcast by 3LO, Melbourne, on Sunday evening, November 6th.

ST. HON. L. S. AMERY, Secretary of State for the Dominions, has kindly consented to transmit a special message from Station 2FC Sydney, to listeners in the British Empire, on the morning of 7th November, at 4.30 a.m.

OAKS DAY: The Cup Day Service of 3LO, Melbourne, will be repeated on Oaks Day, Thursday, November 3rd. "Newbury" will give running descriptions of the races, whilst Miss Dorothy Duncley will describe the frocks on the lawn at Flemington.

GEELONG COMMUNITY SINGING: Geelong broadcasts are always very successful, and Community Singing from the "Pivot," which is to be transmitted by 3LO, Melbourne, from the Central Hall, Geelong, on Friday evening, November 4th, should be enjoyed by listeners.

ARTHUR APPELBY BENEFIT CONCERT: Sydney's leading artists contributed to an excellent concert held on behalf of Mr. Arthur Appelby, one of Sydney's leading vocal teachers, who is no longer able to teach professionally, held at the Conservatorium on Monday, 31st October. The entertainment was broadcast by 2FC.

CHAMPION CYCLISTS: Harry Moody, champion of New South Wales, Bonae Stanford, champion of Tasmania, Charlie Watson, champion of New Zealand, and Bert White, champion of South Australia, will all say a few words on the Grand Prix, for broadcasting by 3LO, Melbourne, on Thursday, November 3rd, at 7.30 p.m.

"CASTLES IN THE AIR": Listeners to 2FC who enjoyed the first act of this bright musical comedy, will appreciate the opportunity of hearing the 2nd Act on Friday, 4th November.

CHILD IMPERSONATOR: Pat McLean, acrobette and child impersonator, is again in the programme at 3LO, Melbourne, on Saturday evening, November 5th.

JOE, JAZZ AND GEE-GEE: In between the races at Flemington, which will be described by "Newbury," Joe Aronson's Symphonists will play a special programme at 3LO, Melbourne, on Saturday, November 5th.

ROY'S ORCHESTRA: A broadcasting event at 3LO, Melbourne, of more than ordinary interest will be the special programme to be rendered by Roy's Gardner Regent Orchestra, conducted by Professor Pietra Sacelli, on Thursday, November 3rd, at midday.

A NIGHT OF OLD FAVORITES: 2FC listeners will have a special treat on Wednesday night, 2nd November. The programme is made up of old favorites. Jack Lumsdaine, the most popular entertainer on the air to-day, Shirley Cooks and Harry Whyte, inimitable in jazzy old novelties; Rene Maxwell, Australia's own soprano; Oliver King, basso; dance music by the Syncopating Collegians, and popular choruses by Len Maurice.

LOUISE HOMPFEY: The lady baritone, is the latest addition to 2FC's long list of artists. She will be heard from the Studio on Monday, 7th November.

HARP MUSIC will be heard from 4QG on Saturday, November 5th, solos being rendered by Mrs. L. Corrigan, one of Brisbane's well-known harpists, in conjunction with Mr. and Mrs. Sleath. Mr. Sleath, who is a violinist of repute, will also render solos on the cello and viola. Mrs. Sleath will be at the piano. An interesting feature of this one hour's musical entertainment is that some of the music to be played has not yet been heard from station 4QG.



Rena Gurling has a serious musical school, "Mike" in the marriage ceremony— but that's letting the cat out of the bag— watch the programme.

"Burgess" spells "Quality; Life; Service."

SPECIAL ARRANGEMENTS have been made by 2BL for the broadcasting, direct from the Cricket Ground, of the match between New Zealand and New South Wales. Play commences on Friday next. The game will be described and the latest scores given, by Mr. Hyam-Marks, sports master of Sydney Grammar School.

CYRIL KAYE and his Wentworth Symphonic Orchestra will be broadcast regularly by 2BL. Being a radio enthusiast and a musician of more than ordinary ability, Mr. Kaye understands what is best suited in the way of dance music for broadcasting purposes. He promises many novelties, and also request dance nights—but you will learn more about that later on.

FRIDAY, 4th NOVEMBER, at 3.37 p.m., Professor Ernest Wood, who is dealing with the subject of Christianity through the Theosophical Station, will deliver a short address. Also on this evening at 9, Mr. J. K. Powell, who is well known to listeners, and whose Good Cheer talks have proved such a success, will talk on a subject of much interest to listeners.

ARMISTICE SUNDAY: Divine Service will be taken from the Wahroonga Presbyterian Church, on Armistice Sunday, 6th November. The preacher will be Rev. D. J. Flockhart. In the evening, Service from the Lyceum. The address will be given by Rt. Hon. J. M. S. Amery, Secretary of State for the Dominions, which will be broadcast by 2FC. The soloists at this service will be Alfred Cunningham, English baritone, and Jessie Smith, contralto, from 3LO Melbourne.

ARMISTICE DAY: Special arrangements have now been completed by Studio 3LO, Melbourne, to broadcast the many functions that are to take place on Armistice Day, November 11th. At 10.30 there will be the ceremony of laying the foundation stone of the "Shrine of Remembrance" in the Domain, also the Dedication Service, which is to be conducted from the steps of Parliament House, and which will be described by Mr. Norman McCance. At 2.30 there will be another ceremony—the laying of the foundation stone of the Old Melbourne's War Memorial Hall, whilst at night there will be community singing broadcasted from Ballarat, consisting of patriotic and sacred songs. For the remainder of the programme, special solos and orchestral items have been selected to form a fitting conclusion to such an eventful day.

GWALIA PARTY: The Welsh Male Voice Party will broadcast one of their charming Welsh programmes from 3LO, Melbourne, on Saturday evening, November 5th.

SOUTH AUSTRALIA'S VOCALIST'S SUCCESS!—One of the most successful contestants at the recent Ballarat Musical Competitions was Mr. Arnold Matters, A.M.U.A., who was successful in obtaining eight first prizes. Mr. Matters is the possessor of a wonderful Baritone voice, which has been heard to advantage through 5CL on a number of occasions. He will again be heard on the evening of November 6th, when a broadcast will be carried out from the Malvern Methodist Church.



Mrs. W. J. Stelzer, a brilliant pianist who together with husband has done much valuable work for 2GB.

THE NINETY-EIGHTH PSALM: Following the splendid rendering of "The Daughter of Jairus," which was recently broadcast from Studio 3LO, Melbourne, by Madame Ella Kingdon, Messrs. Ernest Sage and V. Wolf, with the assistance of the choir from Collins Street Baptist Church, we are now to have an interpretation of the Ninety-Eight Psalm (Mendelssohn) by the same artists. Every listener is fully aware of the fact that sacred music is one of the most difficult forms of melody to broadcast, but in the hands of these three very fine soloists, and the particularly well-balanced choir, it was truly a thing of beauty.

ARE WE ORTHODOX?—One of Australia's most interesting speakers through radio is Mr. P. H. Nicholls, whose Sunday evening talks have caused much favorable comment with radio enthusiasts. His talk on November 6th will be, "Are We Orthodox?" and should prove a most instructive and interesting dissertation. Listeners are advised to tune to 5CL on the above date.

WARDE MORGAN: It is a very great delight to listen to the singing of Warde Morgan from 3LO, Melbourne. It makes one shudder, however, to reflect upon the tragic railway accident which nearly robbed us of his beautiful voice for all time, and to recall Mr. Morgan's great endurance through a long period of intense suffering. His recovery so far has been almost a miracle, and the best wishes of his many friends and listeners generally go out to him for his complete restoration to health.

EMDEN MEMORIES: Although the years pass on, the Wireless contrives to keep certain outstanding events very green in the memory of listeners—incidents that, were it not for the fact that they call for special broadcasting every year, would have long since passed into oblivion. Among these may be mentioned the history sinking of the "Emden," which celebrates its anniversary on November 9th. As is usual on these occasions, the historical facts and descriptive data will be in the hands of Mr. Howlett Ross, who will deliver one of his customary thoughtful addresses on the subject. Regarding the musical side of the programme, special items have been selected with great care, and will go to complete a fitting programme of outstanding interest.

POPULAR JOKER: Few people are more popular over the air than Mr. Charles Nuttall, artist, humorist, and journalist, whose weekly talks from Studio, 3LO, Melbourne, are such a feature of the programme, and contain much sound information sandwiched in amongst good-humored advice. Mr. Nuttall tells a funny story of the time he was in America, and received a unique commission from a Comic Picture Post Card firm to provide five hundred jokes. He thought this would be a very difficult order to carry out, until he hit upon the ingenious plan of taking the dictionary, opening it at random, and going down the pages word by word and making a joke in connection with each one en route. It little mattered to him what the word was—soap, sausage, of sage—as long as a joke was the outcome.

Great Broadcasting Event

By H. ELLO.



Mr. Mansley Greer, organist at Scots Church, Melbourne, whose recitals are broadcast regularly by 3LO.

VISITORS to the Studio of 3LO, Melbourne, wonder at the signs of excited activity, especially on the part of Joe Aronson and his Symphonists, who are busy every day preparing and rehearsing some new and novel "turns" for the great charity concert and ball at Ballarat on 9th and 10th November. Joe Aronson himself is as merry as a big school boy, and declares that he is going to make "Australia" "sure talk" about that "here called Ballarat." He is throwing himself wholeheartedly into his part of the big "boost," and his enthusiasm is infectious, for all concerned are on tip toes of excitement.

The big symphonies being arranged by Mr. Aronson will be enhanced by local color, so to speak. Mr. Gude and members of the Lyric Orchestra at Ballarat are to join forces with the band from 3LO, Melbourne. This is a new departure in broadcasting and opens up a wide field for future operations.

The second half of the programme at the big concert at the Coliseum is in the hands of Mr. Aronson, and the grand finale will be almost identical with the recent successful performance of himself and his symphonists at the Tivoli Theatre, Melbourne, which caused such a furor, and was hailed with continuous bursts of applause and repeated encores.

The studio of 3LO will be practically spirited away to Ballarat for the occasion. Not only will the concert be broadcast on 9th November, but the special dance numbers to be played by Joe Aronson's Symphonists at the big charity ball on November 10th will also be put on the air, and then

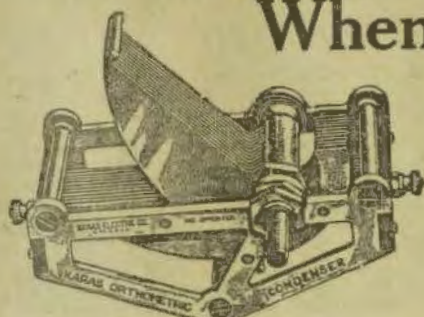
on Friday evening, November 11th, Community Singing will be broadcast from the City Hall, Ballarat. That is not all. The Ballarat Annual Show is to be held on November 10th, and the official opening will be broadcast, together with descriptions of the principal events. A special broadcasting staff of officials, artists and engineers will journey to Ballarat for this big broadcasting event, and 3LO, Melbourne, will have about 30 men "on locality" during the week. "Some stunt" this—Yes, and 3LO, Melbourne, will let the world know that Ballarat is "some" place, or at least will give the Mayor, Cr. Alex. Mackenzie, an opportunity of doing so. Of course, the great immediate aim is to assist the Ballarat Travelers and Bankers, under the presidency of Mr.

Wilfred King, to raise £1,000 for charities. That is the primary motive behind the big effort of 3LO, Melbourne, but opportunity is being taken for the occasion to let the world know of the beauty and potentialities of the premier inland city of Australia.

JOE BRENNAN COMES BACK: After a most successful country tour, Joe Brennan and Ida Newton are returning to 3LO, Melbourne, and will commence another broadcasting season on Monday, November 7th.



Capt. Donald Maclean, whose return to 3LO for a further series of private talks will be hailed with delight by the younger generation.



THE KARAS ORTHOMETRIC LOW LOSS CONDENSER.

Size .00014.—For short wave work 32/9

Size .00025.—For short wave or reaction work 32/9

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Ratio of Movement, 63 to 1.

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They give surprising volume with clarity, equal to resistance coupling

Build The "MARCO" FOUR

The Powerful Four-Valve Set featured in this issue. You will require the following parts:—

	£	s.	d.		£	s.	d.
1 Best Quality Polished Hard Rubber Panel, 21 x 7 x 3/16	0	7	6	2 Crescent Audio (5 and 3 1/2 to 1) Transformers, 13/6 (Or A.W.A. Super Audio Transformers, 18/- ea.)	1	7	0
3 Advance Centralon Condensers; Size, .0008, 12/6	1	17	6	1 2 Megohm Goldleaf and Holder	0	2	0
1 D.M.S. Double Circuit Jack, with Pantall Connections	0	2	2	1 Wireless Fixed Mica Condenser, .00025	0	1	6
1 D.M.S. Single Circuit Jack, with Pantall Connections	0	1	7	1 Wireless Fixed Mica Condenser, .0001	0	1	6
1 D.M.S. Push-button Battery Switch	0	1	6	1 1/4 in. length of 3/16 in. Diameter Radio Tubing ..	0	5	3
1 30 ohm. Bakelite Super Rheostat, 2/6	0	10	0	1 1/4 in. length of 3/16 in. Diameter Radio Tubing ..	0	1	3
1 Keiford Anti-vibration IXX Socket	0	3	0	1 Standard Terminal Board	0	2	9
3 Advance Porcelain IXX Sockets, 2/6	0	7	6	1/2 lb. 24-Gauge Green D.C.C. Wire	0	3	2
				1 doz. Square Tinned Copper Buswire	0	0	10
TOTAL, £5/17/6, COST OF PARTS.							

Country Customers: We guarantee to return purchase price in full on any article you are not satisfied with, if returned to us in good condition within 10 days.

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569 Hunter St. West.
Phone: New. 1622.



The MARCO Four Valve Receiver

IN "Wireless Weekly" of 5/11/26 there was described the Marco Four. It has proved a most successful receiver, so successful, in fact, that many owners proclaim it a much better all-round receiver than the world-famous Browning Drake. We are reprinting the whole article to satisfy the demands of many readers, and it will be found of great interest to the new readers of our paper.

Incidentally, it is worth noting that since the article was written there is available a ready-made set of tuning coils, although this article describes how to make them at home.

The distance getting proclivities of the straight detector Reinartz is well-known all the world over. Until recently all attempts to add radio frequency were never very successful. It remained to Mr. D. L. Pendleton, Consulting Engineer to Martin Copeland Co., the makers of Marco radio material, to devise a system whereby radio frequency could be successfully applied to the Reinartz. Several different systems were tried out and discarded until finally the circuit published here was produced. Looking at this circuit the usual Reinartz will be recognised in coils L3 and L4, tuned with variable condensers C2 and C3. Preceding this is found the RF valve (V1), the coil L2 being the coupling coil transforming the RF energy to L3, and the V2, which is the detector tube. Now the greatest difficulty connected with RF is stabilisation, hence the potentiometer in the tuned anode circuit, and neutralisa-

tion in the Neutrodyne. Unless some means of controlling oscillation is provided, considerable difficulty is met with in radio frequency amplification, thereby rendering it almost useless. The method adopted by Pendleton is simple yet particularly effective. It is always desirable with radio frequency to transfer as much energy as is possible without impairing selectivity, causing uncontrollable oscillation in the RF valve. The method

adopted in this instance is the coupling between the RF plate coil (L2) and the detector grid coil (L3). However, without going into the theory of this matter, be assured that this receiver is wonderfully selective, and although there are three condensers to tune, it is quite simple to bring in the different stations.

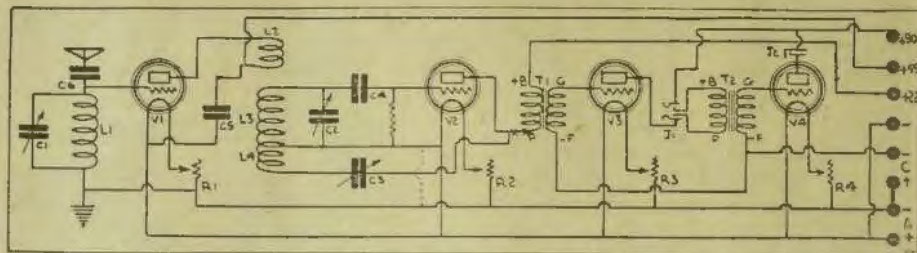
Before going on with the constructional details, a comparison of the circuit with the back of panel view of the receiver will clear up any difficulties which you may have in your mind. Aerial tuning condenser C6, is a constant aerial tuning condenser of .0001 mfd. and assists greatly in selectivity. The incoming energy is tuned to the correct wave length by L1, C1, from which it is passed through the first valve to L2, which converts its energy through L3 tuned by C2 and is detected by valve V2. Reaction is introduced per medium of C3 and L4, after which the volume is stepped up by transformers T1 and valve V3, thence to T2, and valve V2, these two last valves being audio frequency valves and will produce considerable strength on the loud speaker. Should it be desired to use only one valve for loud speaker work, a double circuit Jack, J1, is provided after the first audio valve. In this case rheostat, R4, should be turned down, thus leaving the last valve out of circuit entirely. Condenser C4 is the standard by-pass condenser having a capacity of .002. The three variable condensers each have a capacity of .0095 mfd., whereas C4 is the usual .0025

SHOPPING LIST FOR MARCO 4.

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

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

- 1 Diecto, Radion or Hard Rubber Panel, 21 x 7 x 3-16in.
- 3 .0095 Advance Little Centaig-n Condensers.
- 3 Pilot Vernier Dials.
- 1 D.C. Jack.
- 1 S.C. Jack.
- 1 Battery Switch.
- 4 50 ohms. H. & H. Rheostats.
- 4 Advance Valve Sockets.
- 2 A.W.A. Super Audio Transformer, 1-5 to 1, and 1-33 to 1.
- 1 .00025 Wetless End Condenser.
- 1 .0001 Wetless Condenser.
- 1 .002 Wetless Condenser.
- 8oz. No. 24 D.C.C. Wire.



mid. grid condenser. Looking at the back of panel diagram it will be seen that L1 is so arranged that it is at right angles to the other coils. The most important feature in this receiver is the position of the radio frequency plate coil L2. This is inductively coupled to L3, but its position is most critical. If it is brought too close the selectivity is not so great as when it is kept away. There is a certain position at which this coil gives the greatest signal strength on weak signals with noticeably sharper tuning, and as will be explained later, this position can only be determined by experiment. In the receiver illustrated herewith the best position was found to be when the edge of L2 was 2½-in. away from L3, that is to say, the actual coil itself, not the former.

However, the construction of this receiver will now be proceeded with. The coils themselves should, firstly, be wound. For L1, 47 turns of No. 24 DCC wire is necessary. Proceed to wind this, first of all, drilling two small holes through which the end of the wire has to be threaded, in order that it will be held securely. Wind on the 47 turns of wire and finish off by securing in a similar manner. One of the 3½-in. lengths of Dilecto tubing is required for this purpose, but if this size tubing is not available 3 1-8-in. or 3¼-in. tubing will be found

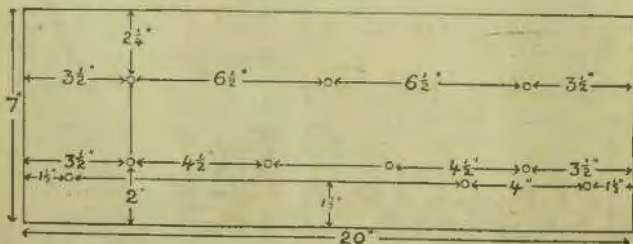
perfectly satisfactory. Another of the same pieces of tubing has to be wound with coils L3 and L4. Grid coil L3 has 45 turns of wire, whereas L4 has 20 turns of the same gauge wire. Both these coils are wound on the same former, the distance between L3 and L4 being one-quarter inch. The third coil, that is, the RF plate coil, comprises 25 turns of No. 24 gauge DCC wire, wound on the remaining portion, that is, the 1½-in. length of tubing. Take a little care and a few pains over winding these coils, as when correctly built, they look very nice and neat.

Leave these coils on one side while you attend to your panel layout and drilling. The diagram given herewith will show you the exact measurement suited to your different panel components. To understand this clearly, a consultation with the front view of the receiver reproduced here will be of great value. There can be seen the three condenser dials, which it will be noted are of the vernier type, and also the four rheostat knobs underneath these condensers. The battery switch is placed at the extreme left of the panel, while the single circuit SC jack is on the extreme right. Midway between the two audio valve rheostats is found the DC jack. Lay your panel on a flat surface and mark out the various positions. Never use lead

pencil for this purpose; rather measure each particular position with a rule and make a small scratch at the correct position and centre punch immediately. Pencil lines provide a path for radio frequency currents, and, as we wish to confine them to the circuit itself, and not the front of the panel, we stress the necessity of not using pencil lines. In drilling, don't forget the golden rule that with Dilecto a light pressure and a high speed quickly bores the panel. When everything is drilled, mount your components on the panel and then prepare for the base board layout.

Before going any further, it is, perhaps, advisable to carefully study the back of panel view of this receiver. As mentioned before, too much importance cannot be attached to the position of the RF plate coil L2, with relation to the detector grid coil L3. To achieve the maximum efficiency from this receiver, lay out the audio end of this receiver. Follow closely our own lay out, and you can then be assured of maximum results. There is nothing whatever to stop you from mounting the aerial coil L1 and the grid and reaction coils L3 and L4, provided you leave sufficient room for experimenting for the correct position of RF plate coil L2. Certainly screw down your valve sockets and transformers and temporarily lay in a near position the RF plate coil L2.

Having done this, carry on with the wiring of this receiver. In the wiring it is always advisable to start off at the audio end of your receiver. Back of panel wiring diagram will give sufficient detail of the wiring to enable you to proceed. Square busbar is ideal for this purpose, and make certain that each joint is tight, and when soldering is required, is carefully soldered. At some later time there will appear in these pages an article devoted entirely to the subject of soldering, which, for some unknown reason or other, from the experience of the writer, seems to



present some difficulty to the average set constructor. This should not be so. Soldering is quite a simple matter, and should present no difficulty whatever. However, for the time being, when you come to wiring the connections of L2, use some ordinary flexible wire, in order that you may be in a position to vary the situation of this coil on actual tests. Take the wiring in easy stages, checking off, with a circuit diagram and the back of panel diagram as you proceed; perhaps the back of panel wiring diagram will be of some assistance to you in wiring, as many of the wires as can be plainly seen in this photograph.

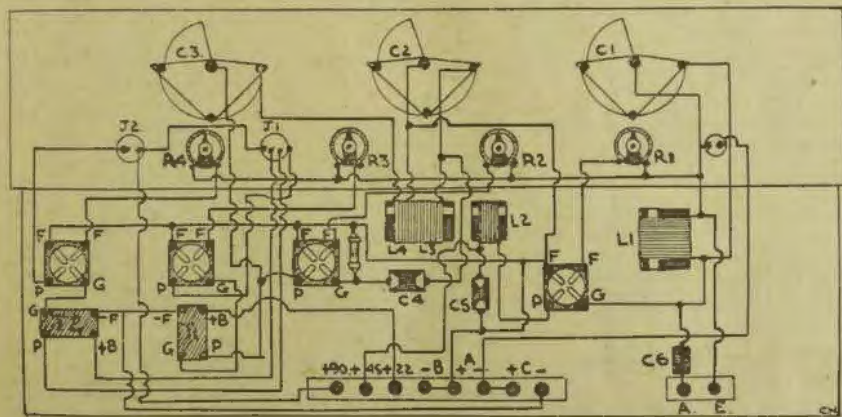
After everything is wired correctly you are now in a position to test your receiver on the air. Connect up your A, B and C batteries, 44 volts being sufficient for the C battery. Insert your valves in their sockets, and hook on your aerial and earth. Insert your phones and jack, J1, and turn up your valve filaments. Leave condenser, C3, at a position when the movable plates are half way emmeshed into the fixed plates, and tune with condenser C1 and C2, using the right hand for tuning the middle condenser, C2. This condenser is very critical of adjustments, and should be rotated in unison with condenser C1. Presently you will hear one of the local stations, and by the careful adjustment of C2 and a final adjustment to C3, you will hear them at an excellent volume. Bear in mind that this time you have the RF plate coil L2, approximately 2in. away from L3. Without moving this coil in any way, tune through all the local sta-

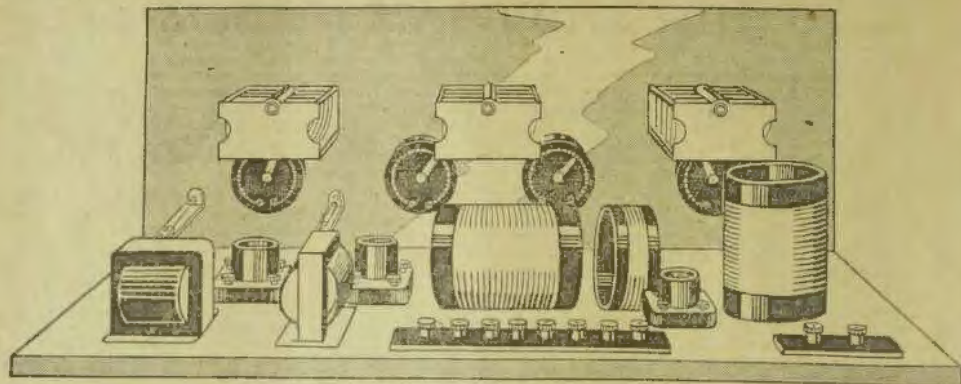
tions, listening to each in turn, and bringing each up to maximum volume, keeping in mind all the time that if too much of condenser C3 is used a certain amount of distortion may occur. Watch this carefully. Now seek the distant station. Go for Brisbane, for example, and note the strength of this station. Plug your phones into jack J2, thereby including all four valves of the circuit. We must needs turn up rheostat R4, tune Brisbane to its loudest pitch, and then move RF plate coil L2 just a fraction away from L3, take away your hand and notice if result is stronger or weaker. Spend half an hour moving this coil closer to, or further away, from L3, until the position is reached where the maximum volume from Queensland is obtainable. At this stage you can make a permanent fixture of coil L2, which need never be disturbed again, and which will respond to all stations, both interstate and local.

Perhaps, it may happen that a slight distortion is perceptible through all reception. If this is so, it points out the necessity for the insertion of the radio frequency choke coil in the plate circuit of the detector valve. This has to be inserted between the two points marked with a cross on the P. lead of transformer T1. To make certain of this, one end of your choke is to be connected to the P. of this transformer, and the other end at the point where the busbar is running from the condenser C3 to the plate lead of the valve. Of course, that portion between the two crosses has to be broken, and to be left in such a pos-

ition that the radio frequency choke coil completes a circuit itself. This coil may take the form of a 200 turn honeycomb coil, or if this is not available, use 4-ozs. of a No. 24 cotton covered wire, wound in any old fashion, on a cotton reel. In actual practice, however, this choke coil was dispensed with and a receiver illustrated herewith, and no detriment was found with this exclusion.

Again, it may happen that a slight difficulty may be experienced in controlling oscillation. If this is the case, it will be advisable to take the grid return lead, that is, the lead which comes from the join of L3 and L4, to the moving plates of condenser C2, and to the bottom of grid lead; take this lead from the A positive where it is fixed in wiring diagram, to the A negative. A dotted line on the circuit diagram shows this alteration, which, if it is necessary, means that that portion which is joined to the filament of valve V2, is taken to the A minus battery wire lead, to which are connected all the rheostats. This alteration will be plain to you, and may even be necessary in order to hold in the oscillations, which may be produced in this receiver. A word about valves will not be out of place. In actual practice, UX201A valves were used to advantage, and the RF plate coil has been designed for this particular valve. Should, of course, UX199 or UV199 valves be used, it may be necessary to wind coil L2 with 50 turns of No. 32 gauge of D.C.C. wire.





Still, this coil is not as critical as it may be, provided particular attention is paid to the coupling.

Before closing this article, it may be worth while mentioning that the most suitable aerial for this receiver was found to be one which did not exceed 50 feet long, that is, including the lead end. A short indoor aerial not exceeding 40 feet long, gave excellent results at Marrickville, the Melbourne station, 3LO, entertaining all present at excellent loud speaker strength. But my remarks of previous weeks must still be borne in mind with regard to interstate stations. Properly constructed, this receiver is capable of yielding interstate stations, provided you are at least 7 miles away from an A class broadcasting station, and perhaps even if you are closer than this, but so much depends on the person who is handling the receiver. It is absolutely essential to become familiar with any receiver before the maximum results can be obtained. It is only natural the more you use a receiver the better results you can obtain from it, and always keep in mind that old adage, that a circuted A keeps the signals away, as it is very true indeed of practically all receivers in every sphere. Persevere, and you will have results, and a receiver of this type just described will find many people who will be pleased to own it for quite a long time to come.

Music in the Air?

“**W**HAT beautiful music is coming over the air these days!” exclaims the non-technically inclined enthusiast. At first blush it seems hard to realise that no music from a broadcasting studio comes over, through or under the air or ground. The station sends out a radio wave. When we speak of music or speech we mean something audible, and no radio wave is audible.

What is it all—some catch or trick? Is the art of equivocation being practised to beguile the radio enthusiast who has not made a deep study of transmission and reception? No, indeed. It's plain, certain science, and no fooling.

The work performed at the broadcasting stations may be divided into two parts, one the pickup, the other the transmission. The microphone is the first instrument to consider in regard to the pickup. Into the microphone the singer delivers vibrations which constitute music (if he or she knows how to sing). An orchestra may be playing, or a pianist, or a talker may be uttering chin music. The vibrations set up by the voice or musical instruments actuate the carbon in the microphone and become electrical currents, which are carried to an amplifying system which makes them louder. While all this is going on a system of regeneration or oscillation is independently creating a radio wave at the wave length assigned to the station. Let us say it is 300 meters, which is the

equal to 1,000,000 cycles per second, for frequency in cycles is equal to the speed of light or electricity, 300,000,000 meters per second, divided by the wave length in meters.

The amplified voice currents or music currents are instantaneously mixed with the radio wave which the station is sending out. The radio wave is known as the carrier.

The audible frequencies have a normal range of from 25 cycles to 10,000 cycles. The phenomenon of mixing the fluctuating audible frequencies with the steady radio or inaudible frequency produces a wave that is constantly changing, but is changing only slightly, since the change is equal to the variations in the original sound. Suppose, therefore, that a single 5000 cycle audible note is being put into the microphone. Suppose the carrier frequency is 1,000,000 cycles. The result of mixing the two is several frequencies, principally the frequency represented by the difference between the two and the frequency equal to the sum of the two. Hence the resultant frequency in one case is 995,000 cycles and in the other 1,005,000 cycles. The human ear does not respond to frequencies much above 10,000.

POCKET WIRELESS: It is reported that United States police are to be provided with pocket wireless receiving sets, complete with valve and batteries. Portable set manufacturers, please note!

Your Choice of Articles

WHAT DO YOU KNOW about broadcasting? Has it struck you that there are a thousand and one things going on in the broadcasting world, of which you are not aware until somebody tells you about them, weeks after they have happened? For instance, do you understand how vital is the question of Empire Broadcasting? Do you know what is being done about it, when it is likely to occur, and whether you will be able to listen-in to London? Do you know what the broadcasters are doing to give us better broadcasting, or whether it is possible to effect improvements in the existing scheme of broadcasting?

THESE ARE SUBJECTS which are of direct importance to every broadcast listener, and it is as well to know what well-known authorities have to say upon them.

THE OCTOBER ISSUE of "RADIO" deals with these matters, and with dozens of other subjects, each one of which presents some new angle of broadcasting or set building.

Here are some of the articles appearing in the October "RADIO":—

MAJOR W. T. CONDER, Director of B.L.O., contributes an article on **PROGRAMMES**, in which he supplies a complete answer to the critics who complain about broadcasting. Major Conder is an authority, and anyone reading this article will gain an entirely new impression of broadcasting.

SUPER POWER, RELAY STATIONS, OR BOTH? J. Garrick Eisenberg, an official of the Radio Corporation of America and formerly of the General Electric Company and United States Navy, is an impartial critic of the Australian Broadcasting situation. As an engineer of note, he discusses the technical advantages of certain suggestions. As a practical commercial man he sums up the possible results of his proposals. As an enthusiastic Radio fan he writes directly to the broadcast listener, and places before him a concrete article that everyone can understand and appreciate.

WHAT IS MIKE FRIGHT? Is it an acute attack of nervousness when first facing the Microphone, or is it a particular disability affecting those of a temperamental nature? Such well-known people as Scott Alexander, Alfred Cunningham, George Gee, etc., give you their impressions upon this absorbing subject.

EMPIRE BROADCASTING. J. E. Graham, an Australian in London, visits Gerald Marcuse, the famous English amateur, who is carrying out preliminary experiments in Empire Broadcasting, and tells us just what manner of man is Marcuse, and what he is doing.

FOR THE HOME SET Constructor there is a variety of articles which cannot fail to appeal.

THE SOLODYNE. Full constructional details of this famous long distance receiver, which has already proved so popular in Australia. This article presents some entirely new and advanced features.

THE SIMPLICITY ONE VALVE RECEIVER.

THE CHAMPION SIX. The combination of sensitivity, selectivity and purity is the feature of this Receiver. Transformer plus resistance coupled audio frequency gives purity. A separate regenerator valve supplies the reaction energy—an interesting departure from the ordinary. Full constructional details.

THE DESIGN AND CONSTRUCTION OF SMALL POWER TRANSFORMERS AND FILTER CHOKES, by J. G. Reed.

CRYSTAL CONTROL AND ZEPPE AERIALS, by W. E. Coxon. In addition to being the Technical Director of 6WF, Mr. Coxon is an enthusiastic experimenter of high repute, and his article covers the question of this type of aerial thoroughly.

THE THREE VALVE REINARTZ RECEIVER. An inexpensive short wave receiver, etc., etc.

ALL IN OCTOBER "RADIO."

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 & NEW ZEALAND
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A Section for the Trade

SPEAKING TO THE MULTITUDE.

Remarkable success has attended the demonstrations of the Amplion Public Speech Equipment with which the Sydney and Melbourne public have become so well acquainted, particularly during the last few weeks. The old method of shouting to one's audience and the previous difficulties which a speaker addressing a large crowd experienced in making his voice audible to those people on the outskirts of the crowd, or some distance away from him, have been overcome, and once again science, in the form of the Amplion Public Speech Equipment, has come forward to assist in the carrying of messages, speeches, music, etc., simultaneously to vast concourses of people. The equipment, although simple to operate and extremely compact and portable, is capable of amplifying the human voice to a tremendous extent, and by the use of the Loud Speakers which are used with the amplifying instrument and the Microphone, the tones of the voice are thrown far vast distances; yet reproduced as perfectly as though one were standing a few feet away from the speaker or singer. The Amplifier itself employs five valves, and the auto coupling transformers which are totally shielded, are especially designed for purity of reproduction. A volume control device and tone control device are incorporated, and a switch for changing over from pick-up to microphone and master control switch are the only adjustments necessary. The control of the whole ap-

paratus is remarkably simple, and the volume can, of course, be made either great or small to suit varying conditions.

While it is not proposed to enter into a full technical description of the Amplion Public Speech Equipment, it is sufficient to say that its practical adaptability in many and varied circumstances has been demonstrated conclusively on innumerable occasions, both abroad and in Australia.

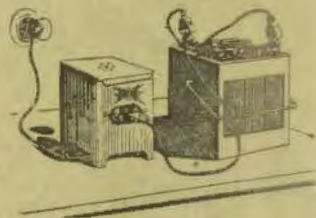
During the recent election campaign in New South Wales, the equipment was used on no less than 75 different occasions, both by the National Party and by the Labor Party. Approximately 275,000 people were reached on these occasions, the largest meeting occurring in the Sydney Domain, when 60,000 people heard clearly every word that was uttered by the speaker.

To permit of the broadcasting of the election results to the thousands of people gathered in the vicinity of King Street on Election night, a large daily paper made use of the Amplion Public Speech Equipment, interspersing the election announcements with musical items.

For some months this equipment has been used at the Palais Royal with remarkable success, and amongst other places might be mentioned the Lyceum Theatre, the Commercial Travellers annual dinner at Sydney, and the Royal Air Force ball at Melbourne. One of the first occasions

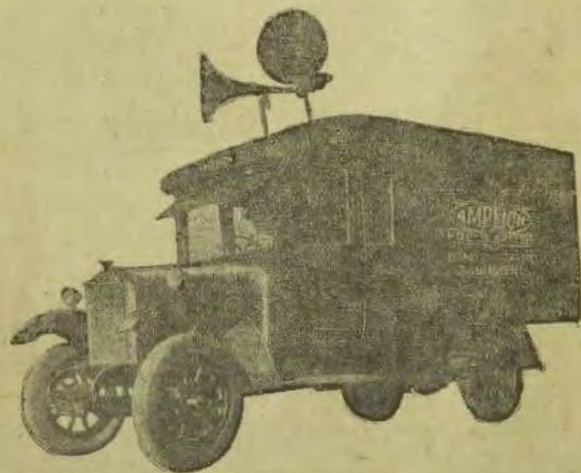
upon which the Amplion Public Speech Equipment was used in Australia was on board H.M.S. "Renown" in Sydney, when on the occasion of a ball, the music from the ship's band was distributed throughout the whole ship. Captain Sullivan and the officers of the "Renown" were loud in their praise of the success of the installation. More recently the equipment was used at the Melbourne Royal Agricultural Show, to the entire satisfaction of both the public and the organisers of the Show. Glowing tributes have been received by the Amplion Company from the Secretary of the R.A. Society of Victoria, also from the Hon. Campaign Organiser of the A.L.P.

Quite recently the Amplion Public Speech truck made a trip to Melbourne, demonstrating the equipment at the various towns en route and surprising many people with its qualities of reproduction, its remarkable volume, and its simplified control.



THE COLMOVOK CHARGER.

Colville Moore Wireless Supplies, Ltd., have submitted a sample of the Colmovox charger, which is manufactured by that Company in Sydney, particularly for Australian conditions. The charger in use proved to be perfectly efficient and reliable. It is very nicely finished in a solid container, is of compact size and simple to use. The model A charger is for charging "A" batteries only, whilst model B may be used for charging either "A" or "B" batteries. The Colmovox charger is of the dry type requiring no electrolyte and obviating waste. It can be used for charging either car batteries or radio batteries, and is supplied complete with full instructions for use.



The World's Flyers carried Burgess.

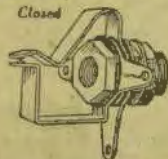
MIDGET JACKS AND SWITCHES.

Every home constructor will be interested in these new products of "Electrad," which the Amalgamated Wireless (Australasia), Limited, of 47 York-street, Sydney, advise us are now available.

The Electrad Jack is a neat, small and positive-acting single circuit jack which requires less than one inch behind the panel. The insulation is made of hard-rubber and it incorporates an oversize phosphor bronze spring, its soldering lugs are tinned and easily accessible. The jacks are made of solid brass, heavily nickelled on all exposed surfaces, sterling silver contact points, electrically and mechanically excellent. Available in open or closed types.

Electrad filament switches closely resemble the Electrad jacks in constructional details, having, of course, the additional plug. The push-pull knob is made of genuine Bakelite and the switching device ensures a positive action at all times.

These instruments should find a welcome place in receivers, in which space is an important factor.



ATWATER KENT.

Major W. J. Avery, Chief of the Foreign Sales Department of the Atwater Kent Mfg. Co. (U.S.A.), who is at present on a visit to Australia, has had an interesting career. He is a graduate of the United States Military Academy at West Point, and served in the United States Army from 1909 to 1920, being Military Aide to President Coolidge, when the

latter was Governor of the State of Massachusetts. Prior to joining the Atwater Kent Company, Mr. Avery was connected with the Foreign Sales Department of the Baldwin Locomotive Works. This year he has visited England, France, Spain, Portugal, Holland, Denmark, Norway, Sweden, Germany, Poland, Greece and Italy, returning to Philadelphia in May last to attend the Atwater Kent Fourth Annual Distributors Convention. He has already taken in New Zealand, and after doing this country will visit India, South Africa, China and Japan, planning to return to his home in January next year.

The Atwater Kent Company made its millionth set on December 3rd, 1926. Some idea of the tremendous output of this concern might be gathered from the fact that whilst in the first year of production the Company made 5,628 sets, in its fourth year it produced 331,298. The Atwater Kent Company is immensely popular throughout north and central America, due to the Atwater Kent concerts which commenced in October last year, and are broadcast every Sunday evening from a chain of 18 power stations throughout the United States. The Company retains the services of the world's best artists for these concerts, and has played a very big part in the popularizing of sponsored programmes in America.

Mr. Avery is a keen business man with a remarkably pleasant personality, and a sense of humor which has carried him through many little crises which have arisen during his travels in foreign lands. He is full of enthusiasm for the future of Radio in Australia, and speaks in glowing terms of our Australian Broadcast Stations.

Tatham and Ten Eyck are factory representatives for Atwater Kent, and Messrs. A. G. Healing and Co., Ltd., distributors.

STRAW PACKING.

The Director General of Health, Melbourne, has issued a proclamation which affects straw packing of any description or kind with goods from all countries except Great Britain, Ireland, United States of America, Belgium, Canada, Czecho-Slovakia, France, Germany, Holland, Italy, Japan, Norway and Sweden. This proclamation provides for the treatment of the straw packing before it is despatched from the country of origin in accordance with the health regulations of the Commonwealth of Australia. Radio dealers or other persons importing goods from countries not specified above would do well to familiarise themselves with this regulation, as unless these clauses are complied with, the straw packing is liable to be destroyed at the importer's expense upon arrival in Australia. Application should be made to the Director General of Health, Mel-

bourne, asking for particulars of the provisions of Quarantine Proclamation No. 172, issued under the Quarantine Act, 1908-24.

ALL-AMERICAN SPEAKER.

This All-American reproducer is an instrument of most unusual tonal qualities. Every feature has been developed by skilled acoustical engineers to make this concealed cone-type speaker a true reproducer of the original rendition of both the human voice and musical instruments. The deep mellow basses issue forth without the slightest taint of a muffle—then climbing upward through the intermediate scales to the high, sweet, overtone treble notes of the flute, the same true tonal "naturalness" is reproduced, unmarred by twangy, unpleasant sounds. Whether the amplifiers are turned on to full volume, or reduced to the faintest whisper, there is always the same uniformity of reproduction. Absolute freedom from inherent pitch assures the finest of all reproduction over the entire musical range. Due to its many superlatives, this All-American reproducer has met with the highest praise and approval. Our sample from O. H. O'Brien, Distributors.



"PUREMAX" LOUD SPEAKER.

A NEW release on the Australian market is the "Puremax" loud speaker. The reproducing unit of this instrument incorporates a number of new features, and forms one of the most rugged and dependable units that we have yet seen. Its construction is a departure from the present-day method of manufacture. Its chief distinction lies in the adoption of the specially prepared mica diaphragm. This is held in position and secured all around the outer edge

(Continued on Page 18.)

by being clamped down between the upper and lower portions of the heavy magnet housing. Its centre is connected by means of a metal arm to a thin steel vibratory reed, which is suspended between heavy double electro-magnets. For adjustment, a non-knurled knob is fitted, and through the medium of a cam control this regulates the spacing of the reed from the pole faces of the magnets. This gives an easy method of control, and appears to allow a good wide margin of adjustment. The magnets are very securely anchored, and the housing of the whole reproducing unit is well constructed. The reproducer is totally enclosed in a highly-polished, nickel-plated, dome-shaped container, which fits down on to the base, where it is firmly held by retaining screws. The base is of the round, flat type, and is finished with a permanent black polish; the underneath portion being heavily cushioned with felt. The horn has been designed to render complete and accurate reproduction of tonal values; every effort having been made to perfect the acoustic properties. It is built in the form of a large, artistically-shaped swan-neck, which is fitted at the top with a detachable wide-mouthed flare. The swan-neck has been given a grey crystalline granite appearance, and the flares is finished with a surface of black ever-bright lacquer. The "Puremax" giant loud speaker can be obtained from the Economic Radio Stores.

SENIA CHOSTIAKOFF: The remarkable singing of Senia Chostiakoff at 3LO, Melbourne, upon his first appearance before the microphone, created quite a sensation. Although he is world famous as the tenor soloist of the Don Cosacks, it was not expected that his voice would have such outstanding qualities for broadcasting. It may be said with truth, that no voice ever broadcast has been more suitable for the purpose. Senia Chostiakoff has a charming personality, and this seems to be picked up to a remarkable degree by the microphone, so that his singing is surrounded by an atmosphere of romance and tragedy, which have marked the life of this picturesque Russian of the Czar's ill-fated white army. Listeners will be pleased that he is to broadcast from 3LO, Melbourne, for a season of three weeks, commencing on 14th November.

S.A.'S November Bride Competition.

A LREADY a vast number of applications have been received by the management of 5CL to contest for the Radio Bride Competition, and small wonder it is when one realises the wonderful gifts that have been donated to the fortunate lady who by public choice is selected as South Australia's most popular bride. The ceremony will take place on November 26th, and herein lies a wonderful opportunity for the lucky bride to be the proud recipient of a sweetly furnished home.

The following firms have generously donated the undermentioned gifts to the lucky bride:—

J. Harpur Reid.	1 Moquet Suite.
Chas Moore & Co.	2 or 3 Window Treatments.
Stokes and Mena.	Kitchen Hardware.
Phazel and Sons.	Open Order.
Bells, Ltd.	Gardening Implements.
Rova Tool Store.	Wedding and Travelling Dress.
Della, Ltd.	Hats, Dress, etc.
Misses Haase.	2 pairs Shoes.
Healy's Shoe Store.	1 Wedding Ring.
Perryman.	1 Cool Safe.
Colton, Palmer and Pearson.	Cake and Reception.
Ellis, Ltd.	Tailoring Machine.
Globe Import Co.	Taxis.
Chester Cab Coy.	Donation.
Uncle George.	
Suites for 2 rooms.	

2BL and 4QG Combine In a Novel Broadcast

CONSIDERABLE ATTENTION has been given to the combination broadcasts of stations 2BL, Sydney, and 4QG, Brisbane, a few evenings ago. Following a pre-arranged scheme, immediately after the Sydney G.P.O. clock struck 9, station 4QG played the accompaniment of the song, "The Fishermen of England." Mr. W. E. Lewis, the well-known Sydney vocalist, standing in the studio of 2BL and wearing a pair of headphones with which he listened to the music from 4QG, sang the words of the song. His voice, together with the Brisbane accompaniment, was broadcast throughout Australia.

To anyone who had tuned in to 2BL without knowing what had been arranged, the item was simply a song with pianoforte accompaniment, but it was a fascinating reflection to think that the pianist and singer were about 500 miles apart.

A listener in Ipswich, writing to 2BL, remarked that the transmission came through very well. "It was indeed novel," he added, "to tune in 4QG and hear just the accompaniment being played, and then to turn over to 2BL and hear both music and song at the same time." A correspondent at Toowoong, Brisbane, commenting on this novel broadcast, remarked that some nights ago Signor Corti sang in 4QG studio while the Tivoli orchestra in Brisbane played the air. In that case, says this correspondent, the orchestra was half a beat behind the singer, but in the case of the 2BL-4QG combination the vocalist and his accompanist kept together perfectly. If it is a fact that Signor Corti and his orchestra were not quite in time it was no fault of the radio, as the speed of sound when broadcast is the same as that of light—practically instantaneous. The singer and his accompanists can, therefore, hear each other as well as if they were side by side.

THE MALVERN METHODIST CHURCH, Adelaide, will give a special choral and instrumental concert to be broadcast by 5CL on Sunday-evening, November 6th, between 8.15 p.m. and 9.30 p.m. Many well-known artists will be heard, including Mr. Arnold Matters, A.M.M.A., who has recently returned from the Ballarat Musical competitions. Mr. Matters was successful in obtaining eight first prizes. Other artists who will be heard are: Harold Tideman, Mrs. C. W. Chinner, L.A.B., Mrs. F. S. Pilgrim, Mr. Lindsay Jessop, Miss Joy Watson, Miss Phyllis Webb, Mr. Ray Wood, Miss Hilda Gill, A.M.U.A., in addition to the Malvern Choir.

DORATHEA MACMASTER: An engagement of great interest at Studio 3LO is that of Miss Dorathea Macmaster, the celebrated Melbourne pianiste, who has but recently returned from the Continent, where she has been completing her musical studies. This is her first broadcasting engagement since her return, and it will doubtless be the means of establishing her still more firmly in the good graces of the musical public of Victoria. It may be mentioned that at a recent recital given by this young artist at the Assembly Hall, she was accorded a warm welcome, and her artistic and sympathetic rendering of the works of the great masters placed her at once in the forefronts of the ranks of Australian musicians.



Things You Should Know About Valves

THE phenomenal growth of the radio industry and the demand for various kinds of vacuum tubes has of necessity led to the introduction of several types of bases. Thus there is the standard Navy base, such as is used with the standard storage-battery tube, with four pins or prongs of equal size. Then there is the UV-199 base, or small dry-battery tube base, similar to the standard Navy base except in size. Again there is the WD-11 base, with three small and one large prongs which are pushed into the holes of the socket. The difference in tube bases has led to some confusion and considerable trouble, especially in changing over to a radio receiver from storage-battery to dry-battery operation, or vice versa. True, adapters have been available for making one base fit another type of socket, but these adapters have not only called for an additional outlay but have introduced additional contacts and opportunities for loose connections and noises.

To end the confusion and trouble of miscellaneous types of base, the Radio Corporation of America, and all leading valve manufacturers have recently introduced a standardized base for all tubes, so that any receiver, provided with the new standardized socket, may use any type of tube. The new standardized base is known as the UX base, which is readily recognised. It has two thicker pins or prongs which are always the filament terminals, so that the possibility of applying plate voltage to the filament in testing is considerably reduced. The pins of the new UX base have ample contact surface. Their arrangement is such that it becomes possible to use an inexpensive socket and to adopt the simplest wiring. Meanwhile, the new UX base will fit the standard Navy socket found in most existing receivers, as well as the new UX socket.

THE valve manufacturers all over the world are giving much time and attention to developing special purpose valves. Special purpose valves, as the name implies, are those valves which are designed for the special purpose of radio frequency detection, audio frequency, power and resistance coupling. Research has shown that the characteristics required for a valve for a given position in a receiver does vary according to the purpose it has to

serve. For example, it is accepted to-day that for the usual method of radio frequency coupling a valve with a high impedance and a high amplification factor functions best and a valve with a lower impedance gives better results on the audio frequency and the last stage of a receiver. Valves for resistance coupling are similar in many respects to the radio frequency valves, and thus are interchangeable in most instances.

The latest creation of the manufacturer—the last stage or power valve—is not quite understood properly by a good number of people. Some expect that to get more volume from their receivers all they need do is to add a power valve without any attention in the plate supply or grid bias. This is entirely wrong.

When a power valve is inserted in the last stage it behoves the owner to increase his plate supply to this stage and balance up correctly with grid bias. Often this grid bias reaches as much as 42 volts, which, when compared to the usual 4½ to 9 volts, is really astounding. But it is so, and it is necessary to apply the correct voltages—to feed the valve in other words. Read what the makers say and believe them.

The special detector valve is one of extreme interest, and takes a certain amount of understanding, but it amply repays the owner for a few moments of thought and reading. Generally, most special detectors are filled with an inert gas, and take a few moments to "warm up" to themselves, so to speak. But when they do, oh, the difference in reception. Try for yourself.

KEEP SPARE VALVES.

DON'T put too much faith in the valves you purchase, unless they are of a very reputable manufacturer, and even then they are not always the best. Quite often considerable trouble can be traced directly to bad valves or tubes. If the receiver is not functioning as you know it should try several changes of valves. No volume, heavy resonating sounds in the speaker, undue noises and poor quality may be traced to the audions. Inability to get DX stations might be attributed to this, therefore occasionally substitute valves, even though they were just recently bought.

The wise radio enthusiast will have a fair supply of spare valves available, so that changes can easily and readily be made in the event he is not satisfied with the way the set is operating. Remember, a valve that does not work good in one certain type of circuit will function surprisingly well in another. Unless you are positive that a valve is useless do not throw it in the junk box.

Another Shipment has Arrived

OF THE

Famous Lion Permanent Detectors

WE are pleased to announce the arrival of another shipment of these famous Permanent Detectors, and after executing outstanding orders we will have a limited number to offer, therefore we would advise you to call or write promptly for the "LION" in order to avoid disappointment. The Lion is the latest development for all Reflex Valve Circuits and for Crystal Receivers. Not only will you be astounded at the wonderfully improved results obtained with the LION but with the continuity of reception owing to the stability of the crystals used.



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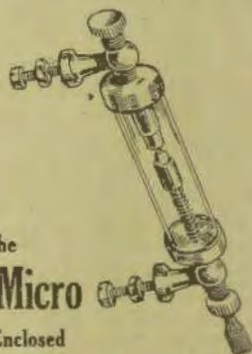


The **LIONTRON**

One hole panel mounting

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REFILLS
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each



The
Lion Micro

Glass Enclosed

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No Catswhiskers — Permanent — Dust and Moisture Proof.

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WILES WONDERFUL WIRELESS and ELECTRICAL STORES

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Opposite Anthony Hardens' & Sons

BROADCASTING PROGRAMMES

For the COMING WEEK

Friday, Nov. 4 2FC, SYDNEY.

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

EARLY MORNING SESSION.—7 to 9 a.m. MORNING SESSION.

- 10 a.m.—"Big Ben" and programme announcements.
10.5 a.m.—Studio music.
11.15 a.m.—"Sydney Morning Herald" news service.
10.40 a.m.—Studio music.
10.35 a.m.—A reading.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben."
Marching music for school children.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.
11.15 a.m.—A talk on Home Cooking and Recipes, by Miss Ethel Ford.
11.30 a.m.—Close down.

MIDDAY SESSION.

- 10 news—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.35 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
Burgly wireless news.
12.35 p.m.—Studio music.
12.30 p.m.—Marching music for school children.
12.40 p.m.—Genevieve Eppel, soprano.
12.45 p.m.—The Oak Hall Instrumental Trio.
12.55 p.m.—Studio music.
1 p.m.—"Big Ben." Weather Intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—The Oak Hall Instrumental Trio.
1.25 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.45 p.m.—Genevieve Eppel, soprano.
"The Swallows" (Frederick Gowen).
1.45 p.m.—Studio music.
1.50 p.m.—The Oak Hall Instrumental Trio.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.
3.3 p.m.—A Pianoforte Recital by the pupils of Mr. Rex De Castro Rego.
3.15 p.m.—Margaret Hunt, soprano: "The Swallows" (Gowen).
3.25 p.m.—Pianoforte solos by pupils of Mr. Rex De Castro Rego.
3.40 p.m.—Marching music for school children.
3.45 p.m.—From Farmer's Tea Rooms:
Florence Grant, soprano.
4.15 p.m.—The Oak Hall Instrumental Trio. (Leader, Mr. Horace Keats).
3.50 p.m.—Pianoforte solos by pupils of Mr. Rex De Castro Rego.
4 a.m.—"Big Ben."
Frank Botham, baritone: "Friend" (Novello Davies).
4.5 p.m.—The Oak Hall Instrumental Trio.
4.10 p.m.—Angela Clancy, contralto: "Whatever it is—'s best" (Lobb).

- 6.15 p.m.—Margaret Hunt, soprano: "What's in the Air Today?" (Lent).
6.20 p.m.—From Farmer's Tea Rooms:
Florence Grant, soprano.
6.25 p.m.—The Oak Hall Instrumental Trio.
6.30 p.m.—Studio music.
6.40 p.m.—From Farmer's Tea Rooms:
Frank Botham, baritone: "Sumbie Woods" (Lull).
6.45 p.m.—Stock Exchange, third call.
6.47 p.m.—Angela Clancy, contralto.
"Softly wakes My Heart" (Scott-Saunders).
6.50 p.m.—Studio music.
6.55 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 6.55 p.m.—The Chimes of 2FC.
7.00 p.m.—The "Hello Man" talks to the children.
7.05 p.m.—Store time for the young folk.
7.10 p.m.—Studio music.
7.15 p.m.—Late sporting news.
7.20 p.m.—"Big Ben."
Dalgety's market reports (wheat, wheat and stock).
7.25 p.m.—Fruit and vegetable markets.
7.30 p.m.—Weather and shipping news.
7.35 p.m.—"Evening News" late news service.

NIGHT SESSION.

- 7.50 p.m.—Programme announcements.
7.55 p.m.—Captain Aarons: A talk on Outstanding Women in History: "Joan of Arc."
7.47 p.m.—Scott Alexander, Radio Sketch.
8 p.m.—"Big Ben."
"The Two Vagabonds," Instrumental numbers.
8.10 p.m.—Virginia Cassetti, contralto.
8.14 p.m.—Scott Alexander, in a sketch specially written for broadcasting by Coltrington Hall.
8.24 p.m.—A talk on Sport.
8.34 p.m.—"The Two Vagabonds," Instrumental numbers.
8.40 p.m.—Scott Alexander, in a One-Act Play.
8.52 p.m.—Harrison White, banjo solo.

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

- 2FC—Farmer's Broadcasting Station, Ltd., Sydney, wavelength 442 metres, power 5000 watts.
2BL—Broadcasters' Ltd., Sydney, wavelength 353 metres, power 5000 watts.
2GB—Theological Broadcasting Station, Ltd., Sydney, wavelength 318 metres, power 5000 watts.
2KY—Trades and Labor Council, Sydney, wavelength 258 metres, power 1500 watts.
2SU—Otto Sandel, Sydney, wavelength 255 metres, power 1500 watts.
2MK—Mackler Bros., Bathurst, wavelength 215 metres, power 250 watts.
2UE—Electrical Utilitites Supply Co., Sydney, wavelength 202 metres, power 250 watts.
2BE—Bergin Electric Co., Sydney, wavelength 318 metres, 100 watts.
2HD—H. A. Douglas, Newcastle, wavelength, 228 metres, 100 watts.

- 8.55 p.m.—Virginia Cassetti, contralto.
Approx. 9 p.m.—Late weather forecast.
9 p.m.—Harrison White, banjo solo.
9.5 a.m.—Virginia Cassetti, contralto.
9.15 p.m.—From Her Majesty's Theatre, Sydney (by arrangement with J. C. Williamson Ltd.): "The Second Act of the new Musical Comedy, broadcast for the first time:

"CASTLES IN THE AIR"

Act Two

- Produced by Frederick J. Blackman.
Scene—Act Two: "Court-yard of a Latician Castle."
Musical numbers from Act 2 of "Castles in the Air":
Dressing, The Chorus.
Lakonian Dance, Leo Maurice, Chorus and Ballet.
Song, "Babe," Gus Hallett and Chorus.
Song, "My Lattina," Roy Russell and Leo Chorus.
Song, "Land of Romance," Rowena Ronald, Duet, "What a Wonderful Day," Rowena Ronald and Roy Russell.
The Lakonian Chant, Full Chorus.
Dance, Flute Solo.
Piano, Principals and Ensemble.
10.20 p.m.—From the Studio:
Leo Maurice, baritone.
10.24 p.m.—Harrison White, banjo solo.
10.30 p.m.—Leo Maurice, baritone.
10.35 p.m.—Harrison White, banjo solo.
10.40 p.m.—The 2FC Dance Band.
10.44 p.m.—Leo Maurice, baritone.
10.57 p.m.—Late news and announcements.
11 p.m.—"Big Ben."
The 2FC Dance Band, interspersed with vocal items, by Leo Maurice, baritone.
11.30 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

Broadcaster's Ltd.
Wave Length, 353 Metres.

Friday

EARLY MORNING SESSION.
7.5 a.m. to 9.0 a.m.

MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and Chimes: Musical Programme from Studio.
10.40 a.m.—News from the "Daily Telegraph Pictorial."
10.50 a.m.—Musical Programme from the Studio.
11.0 a.m.—G.P.O. Clock and Chimes: Announcements.
11.5 a.m.—Musical Programme from the Studio.
11.15 a.m.—Talk on "Hacks," by Miss Gwen Varley, Broadcasters' Women's Sports Authority. Special Notes: Replies to correspondents, by Mrs. Jordan. Talk on "Hacks," by Fennell.
12.0 noon.—G.P.O. Clock and Chimes: Special Ocean Forecast and Weather Report.
12.3 p.m.—Musical Programme from the Studio.
12.15 p.m.—Information: Mails, Shipping, and Port Directory.
12.18 p.m.—Boats in Call by Wireless.
12.20 p.m.—Fruit Market Report.
12.25 p.m.—Variable Market Report.

You can Recharge a Philco for a few pence.

12.24 p.m.—London Metal Market Report.
 12.28 p.m.—Dairy and Farm Produce Market Report.
 12.30 p.m.—G.P.O. Clock and Chimes; Foreign Market Report.
 12.35 p.m.—Fish Market Report.
 12.34 p.m.—Rabbit Market Report.
 12.36 p.m.—Stock Exchange Report.
 12.38 p.m.—News from the "Sun."
 12.45 p.m.—Hilvers' Instrumental Quartets.
 Direction, Carl Castling.
 12.7 p.m.—Stock Exchange Report.

1.30 p.m.—G.P.O. Clock and Chimes; Talk to Children and Special Entertainment for Children in Hospital.
 2.0 p.m.—G.P.O. Clock and Chimes; Close Down.

AFTERNOON SESSION.

Racing Information Broadcast immediately after each Race, by courtesy of the "Sun."
 2.0 p.m.—G.P.O. Clock and Chimes; News from the "Sun."
 2.15 p.m.—Civil Service Stores Trio. Direction, Miss de Courcy Brewer.
 2.30 p.m.—G.P.O. Clock and Chimes; News from the "Sun."
 2.40 p.m.—Musical Programme from the Studio.
 2.45 p.m.—News from the "Sun."
 2.49 p.m.—G.P.O. Clock and Chimes; Civil Service Stores Trio.
 2.45 p.m.—Serial Story.
 2.45 p.m.—Musical Programme from the Studio.
 2.55 p.m.—News from the "Sun."
 2.55 p.m.—Resume of Night's Programme.
 2.57 p.m.—Racing Results.
 2.59 p.m.—Special Ocean Forecast.
 3.0 p.m.—G.P.O. Clock and Chimes; Close Down.

EARLY EVENING SESSION.

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

SPECIAL COUNTRY SESSION.

3.40 p.m.—G.P.O. Clock and Chimes; Australian Mercantile Land and Finance Co.'s Report; Weather Report and Forecast, by courtesy of Government Meteorologist; Producers' Distributors' Society's Fruit and Vegetable Market Reports; Stock Exchange Reports; Grain and Fodder Report ("Sun"); Dairy Produce Report ("Sun").
 3.45 p.m.—Country News from the "Sun."
 3.50 p.m.—Talk by Mr. Gregory of the N.R.M.A.
 3.55 p.m.—Talk on "Gardening Science," by Mr. Cooper, Park Superintendent City Council.
 4.0 p.m.—G.P.O. Clock and Chimes; Broadcasters' Topical Opera.
 4.0 p.m.—Broadcasters' Instrumental Trio: Dulse Blair, Violin; Bruce Carter, Cello; G. Vern Barnett, Piano.
 4.15 p.m.—Broadcasters' Musical Comedy Show under the Direction of Mr. Harley Court. One Happy Hour of Harmony and Rhythm.
 4.15 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Mizes, Government Meteorologist.
 4.15 p.m.—Musical Comedy Selection by Broadcasters' Trio.
 4.20 p.m.—Broadcasters' All Sports Expert will Talk on Cricket.
 4.30 p.m.—Broadcasters' Instrumental Trio.
 4.45 p.m.—The Sporting Editor of the "Sun" will Talk on the Prospects of Saturday's Races.
 4.50 p.m.—Selection by Broadcasters' Instrumental Trio.
 4.55 p.m.—Resume of Following Day's Programme.
 4.59 p.m.—Al Jack's Crackerjack Broadcast from the Ballroom of the Bondi Casino.
 5.0 p.m.—G.P.O. Clock and Chimes; National Anthem.

2GB, SYDNEY

Theological Broadcasting Service.

Wave Length, 316 Metres.

Friday.

MORNING SESSION.

3 a.m.—Music.
 5.5 a.m.—Cherio Talk.
 6.35 a.m.—Music.

9.28 a.m.—Psychological Class.
 9.40 a.m.—Music.
 9.45 a.m.—Health and Diet.
 10 a.m.—Close town.

AFTERNOON SESSION.

3.30 p.m.—Music.
 3.37 p.m.—Address by Professor E. Wood.
 3.52 p.m.—Music.
 4 p.m.—Address.
 4.2 p.m.—Music.
 4.30 p.m.—Close town.

EVENING SESSION.

7 p.m.—Music.
 7.15 p.m.—Resurrection Service.
 7.40 p.m.—Address by Mr. R. E. Bennett.
 7.50 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK.
 8.5 p.m.—Address by Professor Ernest Wood.
 8.20 p.m.—Songs by Mr. Harold Cobb.
 8.35 p.m.—Instrumental Quartets: DAN SCULLY, MURIELLE LANG, ADA BROOK.
 8.30 p.m.—Piano solos: MISS AMY COBB.
 9 p.m.—Address, Mr. J. K. Power.
 9.15 p.m.—Violin Solos, DAN SCULLY.
 1. "Romance in G." 2. "Minnit in G" (Beethoven).
 9.30 p.m.—Songs by Harold Cobb.
 9.30 p.m.—Instrumental Quartets: DAN SCULLY, MURIELLE LANG, ADA BROOK.
 9.50 p.m.—Cherio Talk.
 10 p.m.—Close down.

2UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

Friday.

9 a.m.—News, shipping, mail, studio news.
 9.45 a.m.—Women's session.
 9.53 p.m.—Resume of forward programme.
 10 a.m.—Close down.
 12.15 p.m.—Special employees' Licenseless Session.
 12.45 p.m.—Close down.
 2 p.m.—Studio items.
 2.15 p.m.—Resume of forward programme.
 2 p.m.—Close down.
 8 p.m.—Studio items.
 8.59 p.m.—Resume of forward programme.

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

110.—Broadcasting Company of Australia, Ltd., Melbourne, wavelength 371 metres, power 8000 watts.
 2AR.—Associated Radio Co., Ltd., Melbourne, wavelength 516 metres, power 4000 watts.
 444.—Queensland Radio Service, Brisbane, wavelength 356 metres, power 8000 watts.
 4CL.—Central Broadcasters' Ltd., Adelaide, wavelength 398 metres, power 5000 watts.
 4WF.—Western Farmers, Ltd., Perth, wavelength 1250 metres, power 5800 watts.
 72L.—Tasmanian Broadcasters, Ltd., Hobart, wavelength 516 metres, 3500 watts.
 3DB.—The 3DR Broadcasting Co. Pty., Ltd., Capitol House, Melbourne, wavelength 285 metres, power 500 watts.
 3UZ.—O. J. Nilson & Co., Melbourne, wavelength 318 metres, power 100 watts.
 4GK.—Cold Radio Electric Service, Tasmania, Queensland, wavelength 294 metres, power 100 watts.
 3KA.—Sport Radio Broadcasting Station, Adelaide, wavelength 350 metres, power 1000 watts.
 3DN.—3DN Pty., Ltd., Adelaide, wavelength 213 metres, 550 watts.

4 p.m.—Close down.
 7 p.m.—Sonora selection.
 7.6 p.m.—Where to go.
 7.10 p.m.—Dance Items from Studio.
 7.30 p.m.—Jazz interlude; Harry Atlich.
 7.40 p.m.—Studio selections.
 7.45 p.m.—Miss Alicea O'Connor: Songs at the Studio.
 7.50 p.m.—Studio selections.
 8 p.m.—Harry Atlich's Jazz Interlude.
 8.10 p.m.—George F. Manuel, tenor: "Mary of Argle."
 8.14 p.m.—Miss Jeanet Patterson: Piano-forte solo, Selected.
 8.20 p.m.—Mr. George F. Manuel, tenor: (a) "When Song is Sweet." (b) "I Passed by Your Window."
 8.26 p.m.—Miss Alicea O'Connor: Songs at the piano, Selected.
 8.31 p.m.—Harry Atlich's Jazz interlude.
 8.41 p.m.—George F. Manuel, tenor: "For You Alone."
 8.45 p.m.—Sonora selection.
 8.53 p.m.—George F. Manuel, tenor: "Angels Guard Them."
 8.57 p.m.—Miss Jeanet Patterson: Piano-forte solo, Selected.
 9.2 p.m.—Studio selection.
 9.7 p.m.—George F. Manuel, tenor: "My Dreams."
 9.13 p.m.—Official weather forecast and news Bulletin.
 9.16 p.m.—Studio selections.
 9.28 p.m.—Resume of forward programme.
 9.30 p.m.—Close down.

3LO, MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

Friday.

MIDDAY SESSION.

12.0 noon.—Melbourne Observatory Time Signal; Metal Prices received by the Australian Mines and Metals Association from the London Stock Exchange this day; British Official Wireless News from Ragby; Reuters' and the Australian Press Association Cables; "Argus" News Service.
 12.20 p.m.—HOYTS GARDINER REGENT ORCHESTRA: Selection: "Waltz Dream" (Strauss).
 12.22 p.m.—MICHAEL CONNOLLY, Baritone: "To a Miniature" (May Brahe).
 "The Hills of Dongaul" (Wilfred Sanderson).
 12.40 p.m.—Stock Exchange Information.
 12.43 p.m.—HOYTS GARDINER REGENT ORCHESTRA: "Romance" (Wieniawski).
 12.48 p.m.—ALICE MADIGAN, Piano Recital: "Highland Memories."
 1. "By the Burn" (Hamish McConn).
 2. "On the Loch."
 3. "Harvest Dances."
 1.0 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL.
 "Our time are in His hands who saith, 'A whole I planned. Youth shows but half; trust God; see all, nor heed be afraid!'"
 1.1 p.m.—HOYTS GARDINER REGENT ORCHESTRA: Selection, "Toccata" (Puccini).
 1.15 p.m.—Meteorological Information: Weather Synopsis for Victoria, South Australia, Tasmania, and New South Wales; Ocean Forecast; River Reports for Victoria, Tasmania, South Australia, and New South Wales.
 1.22 p.m.—GRACE JACKSON, Contralto: "Get a Wherry" (Ford).
 "I Love You Truly" (Ford).
 1.30 p.m.—HOYTS GARDINER REGENT ORCHESTRA: "Song of Italy" (Lohe).
 1.35 p.m.—MICHAEL CONNOLLY, Baritone: "Father O'Flynn" (C. V. Stanford). Selected.
 1.40 p.m.—HOYTS GARDINER REGENT ORCHESTRA: "Quartette from Rigoletto" (Verdi).
 1.52 p.m.—GRACE JACKSON, Contralto: "Christina's Lament" (Dvorak).
 "My Land" (Stewart Kiddie).

3.0 p.m.—Description of Trial, Hazels, two miles, WILLIAMSTOWN RACES, by "Newbury of the Argus."
 3.30 p.m.—Close Down.

3.40 p.m.—Description of Three-year-old Handicap, one mile, WILLIAMSTOWN RACES, by "Newbury of the Argus."
 3.55 p.m.—Close Down.

AFTERNOON SESSION.

3.0 p.m.—Melbourne Observatory Time Signal. STUDIO QUARTETTE.

3.10 p.m.—"The City of the Future"—Thomas De Quincey (London).
 3.20 p.m.—"The City of the Future"—A selection from "The City of the Future."

3.30 p.m.—Description of November Handicap, one mile and a quarter, WILLIAMSTOWN RACES, by "Newbury of the Argus."
 3.40 p.m.—MIMI FLETCHER FRASER.

3.50 p.m.—"Hissled Broadcasts the Night." BRADLEY, Violett, and AGNES FORBES, Piano.

"The Racecourse" E. P. Gault.
 3.55 p.m.—ANITA BLAWIE, Pianette.
 "You Don't Like It—Not Much"—"Second Hand News."

4.05 p.m.—BERTHA JORGENSEN, Violin.
 "Air From the Gullmark Concerto."

4.15 p.m.—MICHAEL CONNOLLY, Baritone.
 "Loving Nonsense of Super Kind" (Gould).
 "O Star of Eve" (Wagner).

4.30 p.m.—Description of Christmas Handicap, one mile, WILLIAMSTOWN RACES, by "Newbury of the Argus."
 4.40 p.m.—STUDIO QUARTETTE.

Suite Opus 34, "Turkey in the Straw," from "Lullu" (Fuchs).
 4.55 p.m.—MICHAEL CONNOLLY, Baritone.
 "Theatrical Passing Breeze" (Arthur Sullivan).
 "For You All" (Grieg).

5.05 p.m.—TAMA KIRISAN, Cello.
 "Vandenberg" (Liszt).
 "Andante" (Grieg).

5.15 p.m.—MRS. M. CALLAWAY MAHOOD, Pianette in Art.
 "George Frederik Waite."

5.30 p.m.—Description of Jumpers' Flat, one and a half miles, WILLIAMSTOWN RACES, by "Newbury of the Argus."
 5.40 p.m.—"Herald" News Service: Stock Exchange Information.

5.50 p.m.—Close Down.
 5.55 p.m.—Description of Williamstown Welter, one mile, WILLIAMSTOWN RACES, by "Newbury of the Argus."
 6.05 p.m.—Close Down.

EVENING SESSION.

6.30 p.m.—Anthem to Victoria and Birthday greetings by "BILLY BUNNY."
 6.40 p.m.—STUDIO QUARTETTE.

March, "On the Hunt."
 "Hunting Song" (Mendelssohn).
 6.50 p.m.—BILLY BUNNY.

"Tell Me Why" (Stories about Animals).
 6.55 p.m.—STUDIO QUARTETTE.
 "Second Sullivan Selection."

7.05 p.m.—"Herald" News Service will tell the children about:
 "The Adventures of the Treasure Seekers."

7.15 p.m.—"Herald" News Service: Weather Service: Shipping Reports.

7.25 p.m.—Stock Exchange information.
 7.35 p.m.—Fish Market Reports by J. B. Borrett Ltd.; Rabbit Prices.

7.45 p.m.—Riv. Reports.
 7.55 p.m.—Newmarket Sheep Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne; Market Reports by the Victorian Producers' Co-operative Co. Ltd., Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Poultry and Oatmeal.

8.05 p.m.—Market Reports of Fruit by the Victorian Fruit Producers' Association; Retail Prices: Fruit Market Reports—wholesale prices by Wholesale Fruit Merchants' Association; Wholesale Pig Market Reports by the Ballarat Stock and Station Agents.

NIGHT SESSION.

7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MR. W. J. YULLI, Senior Dairer Supervisor, will speak on "Breed Testing."

7.30 p.m.—STUDIO QUARTET:
 "Hut in the Black Forest."
 7.45 p.m.—MR. H. K. LUCE.

"Technicals."
 "The Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any advice that you may require."

7.45 p.m.—ANITA SHAWN, Pianette:
 "Love is like a little bit of Heaven."
 "Blue Bird."

7.54 p.m.—STUDIO QUARTET:
 "Caucasia"—Eugenie Sully.

8.1 p.m.—MR. C. J. WILLIAMS will comment upon:
 "Memoria's Stadium Event."

8.16 p.m.—ELLA RIDDELL, contralto:
 "The Road to the Isles" (Kennedy Fraser).
 "The Evening Love Lull" (Kennedy Fraser).

8.27 p.m.—Recitation of verses by Couperly for Felix Lloyd for S.L.S. Melbourne's MOUTH ORGAN COMPETITION.

8.32 p.m.—STUDIO QUARTET:
 "Japanese Suite" (Kosugi, Yoneda).
 8.36 p.m.—GEORGE COMMUNITY SINGERS.

Transmitted from Central Hall, Geelong. President, Mrs. Robert Strong.

Conductor, Mr. Will K. Armstrong. Accompanist, Mr. E. J. Dickson.

Secretary, Mrs. E. G. Elliott. His Worship the Mayor of Geelong (Councillor Julia Robinson) will preside.

Opening remarks by his Worship the Mayor. CHORUS: "God Bless Australia."

"Mother Macheson."
 "Ora una vent to now."
 "Welcome Chorus" led by Little Jean

SOPRANO SOLO—Miss Elva Barty. CHORUS—"Eden Affaire."
 "Who Killed Cook Robin?"
 "Society's Paraphrase."

HAWAIIAN QUARTET.
 Messrs. Lance Leock and E. Kessel. Misses Winnie and Elma Taylor.

CHORUS, with Hawaiian accompaniment—"Aloha Oe."
 "O'M Macdonald had a Farm."
 "The Little Nigger Boy."

CONTRALTO SOLO—Miss Ivy Potter. CHORUS:
 "Sweet Genevieve."
 "I'll hold the Power."
 "Mr. Wing."

RECITAL—Miss Lois Dufley.
 10 p.m.—Under the auspices of the Health Association of Australia, the HEALTH MESSAGE for to-day is: "Let in all the sunshine you can. Sunshine and fresh air kill germs and thereby help to keep out sickness."

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for to-day is for

PEDESTRIANS—"There is many a slip betwixt cup and lip, and there are many places where you may slip also. Safety First."

10.1 p.m.—"CARDIGAN" (Mr. R. A. Wolfe, sporting editor of the "Argus" and "Australasian") will speak on to-morrow's race.

10.14 p.m.—MICHAEL CONNOLLY, baritone: Selections from his repertoire.

10.22 p.m.—REGINALD BRADLEY, violin:
 "Le fils du chevalier de la" (Debussy).
 "Hungarian Dance No. 4" (Brahms).

10.31 p.m.—"Argus" news service. Road news supplied by the Royal Automobile Club of Victoria. Meteorological information.

10.37 p.m.—STUDIO QUARTET:
 "Ravel singing quartet."
 10.47 p.m.—ELLA RIDDELL, contralto:
 "Good-bye" (Tosti).
 "Now Sleep the Crimson Petal" (Boger Quilter).

10.53 p.m.—Announcements. British official wireless news from Rugby. Inland steamer movements.

11 p.m.—OUR GREAT THOUGHT:
 "Everyone has the allotted time upon earth; a brief and irrevocable space is given to all; but it is the virtue's work alone to stretch the narrow space by noble deeds."
 11.1 "Argus."

11.1 p.m.—JOE ARONSON and HIS SYNCHRONIZING SYMPHONISTS.
 11.40 p.m.—GOD SAVE THE KING.

4QC, BRISBANE

Queensland Radio Service.

Wave Length, 365 Metres.

Friday.

MIDDAY SESSION.

1 p.m.—Market reports, weather information, "The Daily Mail" and "The Daily Standard" news.

1.30 p.m.—Lunch hour music played by Hotel Carlton Trio.
 1.55 p.m.—Standard time signal.
 2 p.m.—Close down.

AFTERNOON SESSION.

2.30 p.m.—A Programme of music from the studio.
 4.15 p.m.—"The Telegraph" news.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

5 p.m.—"Daily Standard" news, weather information, announcements.
 6.15 p.m.—Lectures: "Astronomy, Shooting Stars and from Whence They Come," by Mr. A. K. Chapman.

6.30 p.m.—Melbina stories by "The Sandman."
 7 p.m.—Market reports, stock reports.
 7.30 p.m.—Weather news; announcements; "Daily Standard" news.

7.45 p.m.—Standard time signal.
 7.55 p.m.—Lectures: "A Queenslanders Impressions of Rural Europe," Mr. J. F. T. Reid (Editor, "Queensland Agricultural Journal").

8 p.m.—NIGHT SESSION.
 8 p.m.—FROM THE STUDIO:
 Overture, "The New Dawn" (Hosni).
 The Studio Orchestra (Conductor, Mr. A. P. Hestonson).
 Bass solo:
 "A Vandenberg's Song" (Gounod).
 Mr. J. F. Curwood.
 A. Thummett for his tonight: "The Doin'ry" (Wm. H. Lister).
 Contralto Solo:
 "Two Roses" (Gibson).
 Miss Margaret Lloyd.
 Cornet Solo:
 "I Hear You Calling Me" (Mendels).
 Mr. J. W. Hargreaves.
 Instrumental Solo:
 "Arabian" (Lamotte).
 Mr. and Miss Griffiths.
 Trumpet solo:
 "Red Devil on the Deck."
 Mr. G. W. Williamson.

NEW ZEALAND STATIONS:

(Corrected List).

1YA, Auckland, The Radio Broadcasting Co. of New Zealand, Ltd.

Power 500 Watts; Wave-length, 333 Metres. Silent Night, Monday.

2YA, Wellington, The Radio Broadcasting Co. of New Zealand, Ltd.

Power 3000 Watts; Wave-length, 420 Metres.

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

Power 500 Watts; Wave-length, 306 Metres. Silent Night, Thursday.

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

Power 750 Watts; Wave-length, 393 Metres.

Value "Enchanted Dale" (Cobb).
The Studio Orchestra.
Soprano Solo:
"The Piper of Love" (Carew).
Miss Thelma Champion.
Vocal Trio:
"Shepherd of the Hills" (Nicobole).
The Studio Orchestra.
Bass solo: "The Last Call" (Sanderson).
Mr. J. P. Cornwell.
Organ solo—Selected.
Mrs. Hilda Woodmer.
Soprano Solo:
"Bird Songs at Eventide" (Coates).
Miss Thelma Champion.
6 p.m.—Metropolitan Weather Forecast.
7 p.m.—West-end road information for motorists, officially supplied by the Royal Automobile Club of Queensland.
8.15 p.m.—Selection: "Plerolara."
The Studio Orchestra.
Tenor solo: "Val" (Russell).
Mr. George Williamson.
Instrumental Duet:
"Egyptian Love Song" (Scott).
Mr. and Miss Griffiths.
Contralto Solo:
"Love I Have Won You" (Ronald).
Miss Margaret Lloyd.
Ensemble:
"Feminine Thrill" (Clay Smith).
The Studio Orchestra.
Vocal Duet:
"Just for a Night."
Miss Thelma Champion and Mr. Geo. Williamson.
Organ Solo:
Folks "Byline" (Brewer).
Mr. J. W. Burgenbelle.
March: "Old Innards" (Lucy).
The Studio Orchestra.
10.30 p.m.—"Daily Mail" news; sporting news.
Close down.

SCL, ADELAIDE

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

Friday.

MORNING SESSION.
12 noon—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and General Information.
12.30 p.m.—Musical selections.
1.0 p.m.—S. C. Ward and Co's Stock Exchange report; Weather report.
1.15 p.m.—Musical selections.
1.30 p.m.—Interstate News from "Advertiser."
1.45 p.m.—Musical selections.
1.55 p.m.—Weather report.
2 p.m.—G.P.O. Chimes. Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Orchestral selections from Maple Leaf Cafe.
Overture, "Magic Flute" (Mozart).
Fox Trot, "Sunny Boy" (Hay).
Valse Charmé (Miles).
Suite "Song of Italy" (Lohr).
Nocturne, "Ballet of Ross" (St. Clair).
2.40 p.m.—Musical selections from studio.
"Moonlight."
"Locand" (Lohr).
"Aspen in the Deep."
"The Diver." Bass Solo by Alim.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Orchestral selection from Arcadia Cafe. (Vocalist: Miss T. Hall).
Selection, "On with the Dance" (Strahan).
A Sylken Glade (Logan).
Fox Trot, "Whistle away your Blues" (Myers).
Violin solo, "Mandragola" (Simonetti).
Suite Pastorale (Awell).
Rustle of Spring (Sinding).
Country Dance (German).
4.25 p.m.—Station announcement.
4.4 p.m.—G.P.O. Chimes and close down.
4.55 p.m.—G.P.O. Chimes.
6.1 p.m.—Dinner Music from Covent Garden Restaurant.
Selection, "Primrose" (Gershwin).
Valse Valse, "Scherzino" (Cherster).
Fox trot, "Blue Skies" (Berlin).
Thoughts at Twilight (Kendall).
Friends in "C" Major (Reichmanoff).
6.50 p.m.—Bedtime Stories by Uncle Mike.

7.20 p.m.—S. C. Ward and Co's Stock Exchange report; Market reports.
7.35 p.m.—Sporting talk by "Winding".
7.50 p.m.—"Willow" will talk on Cricket.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Studio Orchestra.
8.10 p.m.—Contralto solo, Miss Gwen Collett.
8.15 p.m.—Studio Orchestra.
8.25 p.m.—Tenor solo, Keith Clarke.
8.30 p.m.—Comedy, Mr. Wm. Runge.
8.40 p.m.—Studio Orchestra.
8.52 p.m.—Tenor solo, Mr. Keith Clarke.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Weather report.
9.3 p.m.—Dalgely, Wheel report.
9.5 p.m.—Studio Orchestra.
10.10 p.m.—Bass solo, Arthur Bayle.
10.20 p.m.—Comedy, Mr. Wm. Runge.
10.30 p.m.—Mr. W. J. Scaffold (Chief Agricultural Instructor), will talk on "Working the Soil."
10.45 p.m.—Studio Orchestra.
10.55 p.m.—Bass solo, Arthur Bayle.
10 p.m.—G.P.O. Chimes.
10.15 p.m.—"Advertiser" news service.
10.20 p.m.—Wissdag's Sporting Service, Shipping List.
10.25 p.m.—Studio Orchestra.
10.30 p.m.—Belay Maison De Danse Band.
11.10 p.m.—Saturday's Programme, weather report.
11.25 p.m.—National Anthem and Close down.

GWF, PERTH

Westralian Farmer's.
Wave Length, 1250 Metres.

Friday.

12.30 p.m.—Tune in.
12.45 p.m.—Markets, News, and Tables.
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, conducted by Mr. Val Smith.
2 p.m.—Close down.
2.30 p.m.—Tune in.
3.30 p.m.—Organ music, relayed from the Grand Theatre, Murray Street.
Vocal and instrumental interludes from the Studio.
4.40 p.m.—Close down.
4.50 p.m.—Tune in.
5.00 p.m.—Musical evening for the kiddies, by Uncle Henry and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Racing talk by the Sporting Editor of "Truth" Newspaper Coy.

FOREIGN BROADCASTERS.

JOCK—Nagoya Radio Broadcasting Co., Nagoya, JAPAN; 300 metres, 1000 watts. (Announcement in English and Japanese).
JOEK—Osaka Central Broadcasting Co., Osaka, JAPAN; 285 metres, 1000 watts. (Announcement in English and Japanese).
JOAK—Tokyo Broadcasting Co., Tokyo, JAPAN, 375 metres, 1000 watts. (Announcement in English and Japanese).
JFC—Bataviache Radio Vereeniging, BATAVIA, 220 metres, 40 watts.
KZHM—Manila, PHILIPPINE ISLANDS; 413 metres, 1000 watts. (Announcement in English and Philippine).
KGU—"Hemelun Advertiser," Honolulu, HAWAII, 270 metres, 500 watts.
KGO—Oakland, CALIFORNIA; 361.3 metres, 5000 watts.
KFI—Los Angeles, CALIFORNIA, 467 metres, 5000 watts.
KOA—Denver, COLORADO; 322.4 metres, 5000 watts.

8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
POPULAR NIGHT.
8.3 p.m.—Musical programme, including vocal and instrumental articles.
News by the Misses Mason and De Boulay.
Instrumental Duo, of the a.s. Klotzsch.
Detailed description given by the Sporting Editor of "Truth" Newspaper Coy. of Boxing Match held at Perth Stadium, Reservoir Street.
9 p.m.—Talk: "Gardening Notes," by Mr. E. A. Hughes, representing Messrs. Dawson and Harrison, Ltd.
10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Coy.
Ships within radio announcement.
Weather Report and Forecast.
10.30 p.m.—Close down.
100 METRE TRANSMISSION.
Simultaneous Broadcast on 100 Metres of Musical programme given on 1250 Metres, commencing at 8 p.m.

7ZL, HOBART

Tasmanian Broadcasters, Ltd.
Wave Length, 516 Metres.

Friday

MORNING SESSION.—11 a.m. to 12 noon.
AFTERNOON SESSION.
2 p.m.—G.P.O. Clock Chimes.
2.1 p.m.—Tune in selector.
2.5 p.m.—Hobart Stock Exchange Quotations.
Weather Information.
Items of interest; Announcements.
3.15 p.m.—Musical selections by 7ZL Studio Trio.
4.15 p.m.—Educational Talk.
4.30 p.m.—Close down.
EARLY EVENING SESSION.
6.30 p.m.—Children's Corner with the "Radio Lady."
7.15 p.m.—Young Folks' Garden Chat, by Mr. George Nalton.
NIGHT SESSION.
7.30 p.m.—Fruit Industry and Produce Reports, through the courtesy of Roberts and Co., Ltd., Hobart.
7.35 p.m.—Weekly Gardening Talk, by Mr. George Nalton, Glen Nurseries, Cascade.
7.50 p.m.—"Mercury" special Tasmanian news service.
Railway Auction Produce Sales.
Hobart Stock Exchange Quotations.
8 p.m.—G.P.O. Clock Chimes.
8.1 p.m.—Sports Budget, supplied through the courtesy of Mr. H. W. Newton, of Hobart Sports Depot, Hobart.
8.5 p.m.—Studio Concert:
Miss Bertha Marshall (soprano).
Miss Ruby Pears (pianist).
Miss Jean Deeds (solicitorial).
Mr. Harry Foster (baritone).
Mr. Thomas Joe (baritone).
Mr. Victor Pharaoh (bass solo).
Miss Enid Knight (soprano).
9.30 p.m.—Cricket chat, by "Mid-Off."
9.40 p.m.—British Official Wireless News.
9.50 p.m.—"Mercury" special Interstate news service.
Ships within wireless range.
Tasmanian District Weather Reports.
9 p.m. Weather Forecasts.
Station announcements.
Travellers' Week-end Information.
National Anthem.

Saturday, Nov. 5

2FC, SYDNEY

EARLY MORNING SESSION.
7 a.m.—"Big Ben" and programme announcements.
7.5 a.m.—Studio music.
7.15 a.m.—Country Session: Official weather forecast, rainfall, temperatures; astronomical memoranda, shipping intelligence, mail services.



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7.25 a.m.—Investment market, mining share market, metal quotations.
 8.45 a.m.—Wool sales, breadstuffs markets, interstate markets, produce markets.
 9.45 a.m.—"Spitoy Morning Herald" summary.
 9.59 a.m.—Studio music.
 9 a.m.—"Big Ben." Close down.

MORNING SESSION.

10 a.m.—"Big Ben" and programme announcements.
 10.5 a.m.—Studio music.
 10.15 a.m.—"Sydney Morning Herald" news service.
 10.30 a.m.—Studio music.
 10.35 a.m.—A talk by the ZFC Racing Commissioner.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben." Studio music.
 11.5 a.m.—A.P.A. and Venter's Cable Services.
 11.10 a.m.—Studio music.
 11.15 a.m.—A Talk on Gardening, by Mr. G. J. Locking ("Gardener").
 11.30 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" and programme announcements.
 12.5 p.m.—Stock Exchange, first call.
 12.5 p.m.—Studio music.
 12.59 p.m.—"Sydney Morning Herald" news service.
 12.59 p.m.—Ruply wireless news.
 12.59 p.m.—Studio music.
 NOTE: Direct from the Rosehill Racecourse: Events in the running will be described by the ZFC Racing Commissioner.
 1 p.m.—"Big Ben." Weather intelligence.
 1.10 p.m.—"Evening News" midday news service.
 1.20 p.m.—Studio music.
 NOTE: Direct from Melbourne: Results of the last day of the V.H.D. Meeting at Flemington will be relayed.
 Having the interest of racing descriptions and results, musical items will be given, including:
 The Crystal Palace Theatre Orchestra, Sydney, and
 From the Studio:
 Harry White, novelty pianist.
 Sinclair Cooke, soprano.
 4.30 p.m.—A complete resume of the day's sporting events.
 4 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

6.40 p.m.—The Chimes of ZFC.
 6.45 p.m.—The "Hello Man" talks to the children.
 6.50 p.m.—Story time for the young folk.
 6.55 p.m.—Studio music.
 7 p.m.—"Big Ben." Weather intelligence.
 7.5 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.50 p.m.—Programme announcements.
 7.55 p.m.—Lion Smith, pianoforte and saxophonist.
 7.45 p.m.—Gwladys Finnerly, soprano:
 (a) "Rose Saffly Blooming" (Soprano).
 (b) "Four Ducks on a Pond" (Freedman).
 7.55 p.m.—The Congress Band:
 (a) March, "Eutrenty" (Jakeway).
 (b) Selection "Songs of Happiness" (Kirk).
 8 p.m.—"Big Ben."
 Laurence Macintyre, baritone.
 8.1 p.m.—The Congress Band:
 (a) "Meditation" ("Angelus") (Blanc).
 (b) Cornet solo, "Abide with Me" (Lindell), (with band accompaniment).
 Soloist, Bandman T. Smith.
 8.11 p.m.—Descriptions from the Speedway Royal.
 8.20 p.m.—From the Studio:
 Gwladys Finnerly, soprano:
 "O Ship of Mr Delight" (Phillips).
 8.25 p.m.—The Congress Band:
 (a) Selection, "English Melodica."
 (b) March, "Boston" (Cobb).
 8.25 p.m.—NOTE: The Speeches will be broadcast from the Dinner tendered to Mr. Amery, Dominion Secretary, by the Government of New South Wales.
 9.30 p.m.—From the Studio:
 Laurence Macintyre, baritone.
 Late weather forecast.

9.31 p.m.—The Congress Band:
 (a) Selection, "Sole Awakening" (Hall).
 (b) March, "Fire Away."
 9.40 p.m.—Gwladys Finnerly, soprano:
 "A Song Remembered" (Coles).
 9.50 p.m.—Descriptions from the Speedway Royal.
 9.59 p.m.—From the Studio:
 Lion Smith, piano and saxophone solo.
 10.4 p.m.—Descriptions from the Speedway Royal.
 10.10 p.m.—From the Studio:
 Laurence Macintyre, baritone.
 10.15 p.m.—Dance Music, interspersed with musical items from the Studio.
 10.57 p.m.—Late news and announcements.
 11 p.m.—"Big Ben."
 Dance music until 11.45, interspersed with musical numbers from the Studio.
 11.45 p.m.—National Anthem.
 Close down.

2BL, SYDNEY

Saturday.

EARLY MORNING SESSION.

7 a.m. to 9 a.m.

MORNING SESSION.

17 a.m.—G.P.O. Clock and chimes.
 Musical programme from the studio.
 11.15 p.m.—Social Notes by Mrs. Jordan.
 Talk on "Simple Cooking for Children" by Mrs. Jordan.

AFTERNOON SESSION.

Racing information broadcast immediately after each race by courtesy of the "Sun".
 12 noon.—G.P.O. Clock and chimes.
 Special Ocean Forecast and weather report.
 12.1 p.m.—Musical programme from the studio.
 12.20 p.m.—News from the "Sun".
 12.35 p.m.—Sporting and athletic fixtures.
 12.55 p.m.—Whats on at the Pictures and Theatres.
 12.30 p.m.—Musical programme from the Studio.
 12.40 p.m.—News from "Sun".
 12.50 p.m.—Racing resume.
 12.55 p.m.—Musical programme from the studio.
 1 p.m.—G.P.O. Clock and chimes.
 Musical programme from the studio.
 1.10 p.m.—Sporting talk and athletic fixtures for the day.
 1.20 p.m.—Musical programme from the studio.
 5.30 p.m.—G.P.O. Clock and chimes. Talk to children and special entertainment for Children in Hospital.

Short Wave Broadcasters

Bechholes and Wavelengths Subject to Change.

EG-2NM, Gerald Marzani, Caterham, England, 23 and 33 metres (B.B.C. Programme).

EN-PCJ, Phillips Experimental Station, Edinborough, Holland, 30.2 metres (B.B.C. Programme).

NU-2XAF, General Electric Co., Schenectady, New York State, U.S.A., 25.77 metres (W.G.Y. Programme).

NU-2XAG, General Electric Co., Schenectady, New York State 14, 26 and 52 metres (W.G.Y. Programme).

NU-2KRA, Westinghouse Electric Co., Pittsburgh, Penn., U.S.A., 47.5 and 14 metres.

NU-WLW, Crosley Radio Corporation, Cincinnati, Ohio, U.S.A., 22 metres.

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

FO-JR, Johannesburg Broadcasting Company, South Africa, 20 and 25 metres.

3 p.m.—G.P.O. Clock and chimes. Serial Story.
 2.15 p.m.—Musical programme from the studio.
 2.25 p.m.—Racing Resume.
 2.30 p.m.—G.P.O. Clock and chimes.
 News from "Sun".

During the afternoon sporting information will be broadcast by courtesy of the "Sun", interspersed with musical items from the studio.

5 p.m.—G.P.O. Clock and chimes. Racing Resume. Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
 Children's Session.
 6.30 p.m.—Musical programme from the Studio.
 7.15 p.m.—Result of the day's sporting.
 7.30 p.m.—"Evening News" from the "Sun".
 8 p.m.—G.P.O. Clock and chimes.
 Broadcasters' Topical Chorus.

8.5 p.m.—Cyril Kaye and his Symphonic Dance Orchestra transmitting from the ballroom of the Wentworth. Recital by courtesy of H.M.V. Gramophone Company.
 8.15 p.m.—Bernardo De Mayo, (tenor), Arta, "O Paradiso" (Meyerbeer).
 Prayer, "Ain Baidra" (G. A. de Munier).
 8.11 p.m.—Maxwell Orchestra.
 "Interruption," "Asterida" (Smith).
 "In a Monastery Garden".

8.28 p.m.—The Revelers:
 "Where is my Rose of Walkie".
 "Don't Walk too long".
 8.30 p.m.—Stewart Gardner, baritone.
 "An Old Garden" (Temple).
 "The Devout Temple" (White).

8.42 p.m.—Cyril Kaye and his Symphonic Dance Orchestra, transmitting from the ballroom of the Wentworth. Recital by courtesy of H.M.V. Gramophone Company.

8.52 p.m.—Associated Glee Club:
 "The Bell of St. Mary's".
 "John Peel".

9 p.m.—G.P.O. Clock and chimes.
 9.1 p.m.—Resume of following day's programme.

9.3 p.m.—Cedric Sharpe, cellist.
 "Break My Melody" (Van Hien).
 "Largo in G" (Handel).

9.11 p.m.—Gresham Singers:
 "Come to the Fair" (Marlin).
 "The Clock is Ticking" (Blauw).

9.20 p.m.—Frank Grunwitz:
 "Sotya".
 "Old Uncle Bill".

9.27 p.m.—Cyril Kaye and his Symphonic Dance Orchestra transmitting from the ballroom of the Wentworth. Recital by courtesy of H.M.V. Gramophone Company.

9.37 p.m.—Gibson Melville:
 "You forgot to remember" (Berlin).
 "Eye fallen in love".

9.44 p.m.—Gresham Singers:
 "Little Tommy went a-fishing" (Masey).
 "Summer Eve" (Hasten).

9.51 p.m.—Cyril Kaye and his Symphonic Dance Orchestra transmitting from the ballroom of the Wentworth.

10 p.m.—G.P.O. Clock and chimes.
 10.1 p.m.—Recital of H.M.V. Gramophone records.

Lion Smith, pianoforte.
 Ballet Music from "Faust" (Gornied).

10.15 p.m.—Dance music by Cyril Kaye and his Symphonic Dance Orchestra, transmitting from the ballroom of the Wentworth.

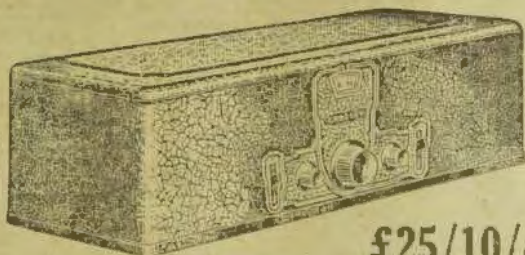
12 midnight.—G.P.O. Clock and chimes.
 National Anthem.

2UW, SYDNEY

Saturday.

7 p.m.—Sonzora selection.
 7.4 p.m.—Where to Go.
 7.10 p.m.—Dance selections from the Studio.
 8 p.m.—Official wireless forecast and news bulletin.
 8.5 p.m.—Studio selection.
 9.25 p.m.—Resume of forward items.
 9.30 p.m.—Close down.

You're there with a Crosley



£25/10/-

"THE BANDBOX"

A Phenomenal Crosley Radio Receiver for the Complete
Enjoyment of the 1927-28 Radio Season.

Here are the seven big things which represent Radio's greatest advancement, brought together by Crosley and combined with the experience, mass production method and leadership of the Crosley organization. No wonder a waiting radio world pronounces the "Bandbox" at the unprecedented price of £25-10/-, Crosley's paramount achievement.

THE BANDBOX IS SHIELDED.

Radio coils are surrounded by magnetic fields similar in every respect to the magnetic field around the earth that moves the needle of a compass, but around radio coils these fields make nuisances of themselves by feeding back on each other. Heretofore, it has been customary to make inefficient coils with inefficient fields to prevent such feeding back. The Crosley Bandbox incorporates copper shields around each coil to prevent such feeding back. The coils consequently can be made and are very much more efficient. The amplification of the receiver is, therefore, much higher—the sensitivity is greatly increased. Condensers are also completely shielded from each other in separate metal compartments. Hitherto only very high-priced sets have enjoyed this super-radio advantage.

THERE IS NO OSCILLATION.

The Bandbox employs completely balanced or neutralized stages to prevent oscillation, instead of the common form of loose method. Costly to be sure, but extremely necessary in achieving such results as are obtained by this marvel of radio reception—THE BANDBOX.

FOR SHARPNESS—THE ACUMINATORS.

"Bandbox" acuminators enable "fishers" for distant stations to bring them in loud and clear. As powerful telescopes magnify distant stars, acuminators increase the volume of far-away signals so they seem like local programmes.

VOLUME CONTROL.

This is another big "Bandbox" feature, which permits full brass band power for those who want their dance notes strong and loud. For others, it cuts volume down to a soft and gentle murmur, without distortion.

ILLUMINATED DIAL.

A Master Station Selector has an illuminated dial for easy reading in shadowy corners. A single knob permits full tuning for ordinary reception of local, near-by and super-powered stations.

INSTALLATIONS SIMPLIFIED.

A woven grille, containing varnished, rubber-covered leads, makes installation and hook-up easy for the veriest novice. No waiting for the radio service man should the battery be changed.

EASILY ADAPTED TO CONSOLES.

Simply remove screws in catchpan and in base of set. Lift off metal case. Classic new stand ready for installation in Console Cabinet. Opening in Console Cabinet permits control shafts to protrude. Rear-panel screws in place, and, Primal the entire radio is complete.

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3LO, MELBOURNE.

Saturday.

MORNING SESSION.

- 11 a.m.—JOHNSTON'S STUDIO BOYS:
March, "Sans Souci."
Overture, "Sourmande."
11.10 a.m.—ANITA SHAW, soubrette:
"Fretful."
"We've Got a Servant."
11.17 a.m.—JOHNSTON'S STUDIO BOYS:
Waltz, "Valse Fair."
11.25 a.m.—JACK O'HAGAN and BOB HOLYNEUX:
"Harmony."
11.37 a.m.—JOHNSTON'S STUDIO BOYS:
Selection: "Il Trovatore."
11.47 a.m.—MICHAEL CONNOLLY, baritone:
"Trottin' to the Fair" (C. V. Stanford).
"The Hills of Donegal" (Wilfred Sanderson).
11.54 a.m.—JOHNSTON'S STUDIO BOYS:
Favourite, "A Lane in Spain"
Hymn: "I'll Sing."
12 noon—MELBOURNE OBSERVATORY
TIME SIGNAL: Metal prices received by
the Australian Mines and Metal Association
from the London Stock Exchange this day.
British official wireless news from
Rugby, Reuters' and the Australian Press
Association cables, "Argus" news service.
12.05 p.m.—STUDIO QUARTETTE:
"Ballet Suite" (Rameau-Motte).
12.10 p.m.—ELLA RIDDELL, contralto:
"Hail Columbia" (Strauss).
"Home o' Mine" (McKenzie Murdoch).
12.17 p.m.—Stock Exchange information.
12.40 p.m.—JOHNSTON'S STUDIO BOYS:
Cornet Solo: "Australia."
Soloist, J. Robertson.
12.47 p.m.—AGNES FORTUNE, Piano Solo:
Selected.
12.55 p.m.—MICHAEL CONNOLLY, baritone:
"Waiaia Poi" (Alfred Hill).
"Father O'Flynn" (C. V. Stanford).

- 1 p.m.—MELBOURNE OBSERVATORY
TIME SIGNAL.
1.1 p.m.—Description of Bateman Stakes, one
mile, V.R.C., FLEMINGTON, by "New-
bury" of the "Argus."
1.6 p.m.—STUDIO QUARTETTE:
"The Kingdom of the Flowers"
(Ringleblou).
Valecette: "A Morning Greeting" (I
(Gehmler).
1.12 p.m.—Meteorological information.
Shipping information. Weather forecast
for Victoria, Tasmania, South Australia,
and New South Wales. Ocean forecast.
River reports for Victoria, Tasmania, South
Australia, and New South Wales.
1.15 p.m.—JOHNSTON'S STUDIO BOYS:
Duo: Cornet and Soprano:
"The Tin-larks."
1.23 p.m.—ELLA RIDDELL, contralto:
"I will await thee" (Coningsby Clark).
"My Heart's Desire" (Coningsby Clark).
1.32 p.m.—TASMA TIERNAN, Cello:
"Robin Adair."
1.40 p.m.—Description of Flemington Stakes,
6 furlongs, V.R.C., FLEMINGTON, by
"Newbury" of the "Argus."
1.45 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Scenes of Beauty."
2 p.m.—Description of Cricket Match, Car-
ton v. St. Kilda, at Carlton, by Mr. Rod
McGregor.
2.15 p.m.—Close down.
2.40 p.m.—Description of C. B. Fisher Plate,
1½ miles, V.R.C., FLEMINGTON, by "New-
bury" of the "Argus."
2.45 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—JOE ARONSON and HIS SYN-
COPATING SYMPHONISTS:
"In An Oriental Garden" (Hayes).
"Meet Me in the Moonlight" (Davis).
"So Blue" (De Siva).
2.10 p.m.—Description of Cricket Match,
Carlton v. St. Kilda, at Carlton, by Mr.
Rod McGregor.
2.20 p.m.—JOE ARONSON and HIS SYN-
COPATING SYMPHONISTS:
"Blue Skies" (Berlin).
"Dawn of To-morrow" (Green).
"Ross Lee" (Ash).

- 2.30 p.m.—Description of V.R.C. Handicap,
1½ miles, V.R.C., FLEMINGTON, by "New-
bury" of the "Argus."
2.35 p.m.—JOE ARONSON and HIS SYN-
COPATING SYMPHONISTS:
"Ain't She Sweet" (Yellen).
"Crazy Words, Crazy Tune" (Yellen).
"There's a Trick in Pickin'" a Chick, Chick
Chicks" (Tobias).
2.42 p.m.—Description of Cricket Match, Car-
ton v. St. Kilda, at Carlton, by Mr. Rod
McGregor.
2.55 p.m.—JOE ARONSON and HIS SYN-
COPATING SYMPHONISTS:
"Love is Just a Little Bit of Heaven"
(Bryan).
"She's Got It" (Davis).
"Sleeping in Society" (Akkel).
"Who-oo! You-oo! That's Who."
"Moo-oo!" Pipe Solo (Blowen).
"Golden Gate" (Leslie).
"Rhythm is the Thing" (Raitz).
"Meribou Moon" (Lawrence).
3.02 p.m.—Description of Victoria Scaphe-
nage, 3 miles, 1 furlong, V.R.C., FLEMING-
TON, by "Newbury" of the "Argus."
3.04 p.m.—JOE ARONSON and HIS SYN-
COPATING SYMPHONISTS:
"Coletti" (Kahn).
"The Hanging Gardens of Babylon" (Carlo)
"Sa-La-La" (Rahm).
"The Spell of the Moon" (Karr).
3.40 p.m.—Description of Cricket Match, Car-
ton v. St. Kilda, at Carlton, by Mr. Rod
McGregor.
3.45 p.m.—"Herald" news service. Stock
Exchange information.
3.50 p.m.—Description of Final Handicap, 1½
miles, V.R.C., FLEMINGTON, by "New-
bury" of the "Argus."
3.55 p.m.—Close down.

EVENING SESSION.

- 3.50 p.m.—Sporting results.
3.50 p.m.—Answers to Letters and Birthday
Greetings, by "LITTLE MISS KOOKA-
BURRA" (Jorth).
4.10 p.m.—STUDIO QUARTETTE:
"In the Clock Store" (Jorth).
4.20 p.m.—"LITTLE MISS KOOKABURRA"
will tell her kookaburras some more
about "The Plucky Pated"—"Phillips Looks
on."
4.40 p.m.—"Herald" news service. Weather
reports, Shipping movements.
4.42 p.m.—Stock Exchange information.
4.47 p.m.—Market reports.
4.50 p.m.—River reports.
4.52 p.m.—Newmarket Sheep sales, by the
Associated Stock and Station Agents, Bourke
street, Melbourne. Market reports by the
Victorian Producers' Co., Ltd.'s Poultry,
Grain, Sirax, Jute, Dairy Produce, Potatoes,
and Orients.
7.10 p.m.—Market reports of Fruit, by the
Victorian Fruitgrowers' Association. Retail
prices. Wholesale prices of Fruit, by the
Wholesale Fruit Merchants Association.

NIGHT SESSION.

- 7.15 p.m.—MR. H. E. F. LAMPE:
"The Talky Chick—The First Watch."
7.20 p.m.—MR. E. E. PESCOFF:
"Poison Plants."
7.45 p.m.—MR. R. RAWSON:
"Esperanto."
THE ROYAL AUTOMOBILE CLUB OF
VICTORIA'S SAFETY MESSAGE, for
To-day is for
EVERYBODY: "We are working to prevent
accidents; to be successful we must have
your help."
Under the auspices of the R.A.C. Association
of Australasia, the HEALTH MES-
SAGE for To-day is:
"Let your bath be a habit, not an event."
8 p.m.—PRAHRAN CITY BAND:
Selection, "Wilfred Sanderson's Songs"
(Home).
8.10 p.m.—THE GWALIA PARTY (Welsh
male voice party):
"Comrades in Arms" (Adolphe Adams).
"In the Sweet Bye and Bye"—Old Welsh
Singing.
8.17 p.m.—PRAHRAN CITY BAND:
Overture, "The Barber of Seville" (Rossini).

- 8.24 p.m.—J. ALEXANDER BROWNE, baritone.
8.30 p.m.—PRAHRAN CITY BAND:
Trombone Solo, "The Joy Wheel" (Sutton).
8.35 p.m.—THE GWALIA PARTY (Welsh
male voice party):
"The March of the Men of Harlech" (ar-
ranged for male voices by Dr. Barry).
"Swing On" (The Ash Grove)—Welsh
Melody.
8.44 p.m.—A Special Programme has been
arranged.
10.15 p.m.—PRAHRAN CITY BAND:
Grand March from "Tanhauser" (Wagner).
March, "Deeds of Daring" (Brimmer).
10.25 p.m.—PAT McLEAN, Soubrette:
"Selected."
10.32 p.m.—Late Sporting Results.
10.45 p.m.—PAT McLEAN, Soubrette:
"Selected."
10.52 p.m.—JOE ARONSON and HIS SYN-
COPATING SYMPHONISTS:
"When will We Meet Again" (Florino).
"Jack in the Box" (Siebel).
"Selected."
11 p.m.—OUR GREAT THOUGHTS:
"Life appears to me too short to spend in
nursing animosity or registering wrongs."
—Charlotte Bronte.
11.05 p.m.—JOE ARONSON and HIS SYN-
COPATING SYMPHONISTS:
11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Saturday.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

- 3.50 p.m.—A matinee for little listeners by
"Miss Warratah."
4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 4.30 p.m.—Bedtime stories by "Uncle Ben."
7.15 p.m.—Reading results.
7.20 p.m.—Today's sporting news described.
7.30 p.m.—Sailing days by Mr. F. Smith.

NIGHT SESSION.

- The first portion of the programme will
comprise music for harp, violin, violinello,
viola and piano, and will be provided by
the Slough Tern.
8 p.m.—FROM THE STUDIO:
Overture: "Marche Militaire" (Schubert).
The Trio.
Violin solo:
(a) "Barcarolle" (Hansert).
(b) "Gavotte" (Gluck).
Mr. Slough.
Harp solo: "Autumn" (John Thomas).
Mrs. Corrigan.
Harp and Piano:
(a) "Moon Moths" (Albert Knauth).
(b) "Tanza" (J. Brill).
Mrs. Corrigan and Mrs. Slough.
Harp and Violin:
"A Maria" (Gounod).
Mrs. Corrigan and Mr. Slough.
Violin Solo: "Oberon" (Wieniawski).
Mr. Slough.
Harp Solo: "Nocturne" (Hanselmann).
Mrs. Corrigan.
Violin Solo: "Oberon" (Wieniawski).
Mr. Slough.
Violin and Harp:
"La Mediane" (Aron).
Mr. Slough and Mrs. Corrigan.
Piano, Violin and Harp:
"To the Evening Star" (Wagner).
The Trio.
8 p.m.—ROBE DAVIES PARK:
Motor Cycle Race.
10 p.m.—LENNON'S BALLROOM:
Dance Music.
10.50 p.m.—"The Sunday Mail" news; weather
news. Close down.

5CL, ADELAIDE.

Saturday.

MORNING SESSION.

- 11 a.m.—G.P.O. Chimes.
11.1 a.m.—"Advertiser" news service and
Special Information.

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Battery-Cost
per hour of
Enjoyment!**

If you have been buying
radio batteries too often,
treat yourself to a set of



BRIGHT STAR RADIO BATTERIES

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Remember, you pay no more
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"Bag Type" cell construction
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A ZBL Feature—The famous Ambassadors Dance Band



"Amazed at its Fidelity"
—says Al. Hammett!

Editor Philips Lamp (Amst. Ed.)
1. System.

Dear Sirs,

Amazed at its fidelity—do perhaps how I can best express my feelings when I was given the opportunity of hearing my usual re-created by one of your "PCJ" Model Loud Speakers.

Credit must also be given to the engineers of ZBL, who regularly put an "on the air" but I never conceived it possible that modern radio had developed to such perfection as demonstrated to me on the occasion in question.

Naturally, one of the Ambassadors' Dance Band are gratified to know that the most artistic changes in tone or color, right down to the deep tones of the big Saxes, can be faithfully reproduced in perfect balance in the hours of leisure, by means of any good radio we use a Philips Loud Speaker.

Many thanks for the opportunity which you afforded me of listening to—

Yours truly

Al. Hammett

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PHILIPS
"PCJ" LOUDSPEAKER

- (b) "A new Commandment" (from "Olivet to Galvary")
 8.15 p.m.—"Big Ben." The Conservatorium Ladies' String Quartette.
 "Variations and Scherzo" (Schubert).
 8.40 p.m.—Jagie Smith, contralto from 3LO.
 (a) "Ave Maria" (Gounod).
 (b) "The Grief of Heav'n" (Dunhill).
 8.45 p.m.—Alfred Cunningham, baritone:
 "The Lord is my Light" (Allibone).
 9.02 p.m.—The Conservatorium Ladies' String Quartette:

- (a) "Boccherini" (J'Oslen Sacken).
 (b) "Mozartka" (Laskov).
 9.40 p.m.—Madame Vera Tazma, soprano:
 (a) "The Little Song" (Meredit Taiton).
 (b) "Old Kentucky Home" (Fisher) (Requies).

- 9.55 p.m.—Alfred Cunningham, baritone:
 "The Smile that shines through tears" (Halleaux).

- 9.55 p.m.—Jessie Smith, contralto from 3LO:
 (a) "Transformation" (Watts).
 (b) "The Heart Worships" (Hobal).

- 9.55 p.m.—The Conservatorium Ladies' String Quartette:
 (a) "Gavotte" (Pochon).
 (b) "Chanson D'Antrope" (Pierre).

- (c) "Musique No. 71" (Haydn).
 10.5 p.m.—National Anthem.
 Close down.

2BL, SYDNEY

Sunday.

MORNING SESSION.

- 10.45 a.m.—Special News Service.
 11.0 a.m.—Service Broadcast from Lugar Bree Methodist Church, Waverley.

AFTERNOON SESSION.

- 2.0 p.m.—G.P.O. Clock and Chimes.
 2.1 p.m.—Children's Service.
 2.15 p.m.—Recital by Courtesy of the R.M.V. Gramophone Co.
 2.45 p.m.—Information Service.
 3.0 p.m.—G.P.O. Clock and Chimes, Close Down.
 3.30 p.m.—G.P.O. Clock and Chimes.
 3.41 p.m.—Organ Recital by Mr. Fred Smead, transmitted from Baptist Church, Petersham.
 4.30 p.m.—Bible Class Conducted by Mr. W. "Gair" Bradley.
 4.9 p.m.—G.P.O. Clock and Chimes, Close Down.
 4.45 p.m.—Children's Service.

EVENING SESSION.

- 7.0 p.m.—Service Broadcast from Baptist Church, Petersham. Address by Rev. G. A. Crain.
 8.30 p.m.—From the Studio: Broadcaster's Trio.
 8.40 p.m.—Mr. Leo Parker (Baritone).
 8.47 p.m.—Duet by Misses Marjorie Skid and Madeline Barnett.
 8.51 p.m.—Trumpet Duet by Messrs. O. Wallace and F. Philpott.
 8.53 p.m.—Weather Report and Forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
 8.56 p.m.—Breeze of Following Day's Programme.
 9.0 p.m.—G.P.O. Clock and Chimes.
 9.1 (a.m.—Miss Marjorie Skid (Soprano).
 9.4 p.m.—Broadcaster's Trio.
 9.15 p.m.—Miss Madeline Barnett (Contralto).
 9.25 p.m.—Trumpet Duet by Messrs. O. Wallace and F. Philpott.
 9.37 p.m.—Mr. Leo Parker (Baritone).
 9.41 p.m.—Miss Marjorie Skid.
 9.44 p.m.—Miss Madeline Barnett.
 10.1 p.m.—Broadcaster's Trio.
 10.41 p.m.—National Anthem.

2GB, SYDNEY

Sunday.

MORNING SERVICE.

- 10.45 a.m.—Service from St. Alban's Liberal Catholic Church, Redfern.
 12 noon.—Close down.

EVENING SESSION.

- 8.45 p.m.—Music from the Studio.
 9 p.m.—Lecture from Adyar Hall, by Professor Ernest Wood.

- 8 p.m.—Songs by Miss Marie Menzies.
 8.5 (a.m.—Duet for two Violins, with Piano accompaniment.
 8.20 p.m.—Songs by Miss Marie Menzies.
 8.25 p.m.—Duet for two Violins, with Piano accompaniment:

- DAN SCULLY, MRS. B. FREEDMAN.
 8.40 p.m.—Talk.
 9 p.m.—Close down.

2 UW, SYDNEY

Sunday

- 10.39 a.m.—Organ solo:
 "Spring Song" (Ballin).
 10.44 a.m.—Mixed choir:
 "Ye Watchers and Ye Holy Ones" (Glaister Lyan).

- 10.49 a.m.—Orchestral selection:
 "Arabia Dance" (from Poet Gyn Suite).

- 10.44 a.m.—Studio selection.
 10.48 a.m.—Violin solo:
 "Dancing Duet" (Poldini-Kreidler).

- 10.52 a.m.—Tenor solo:
 "An Erlbay Love Lull" (Kennedy-Fraser).

- 10.57 a.m.—Mass Choir:
 "Jesus, Lover of My Soul" (Percy).

- 11.1 a.m.—Organ solo:
 "Grand Canon" (Dubois).

- 11.2 a.m.—Studio selection.
 11.2 a.m.—Scapellato Trio (violin, flute, and harp):
 (a) "Simple Aveu" (Thorne).
 (b) "Spring Song" (Mendelssohn).

- 11.25 a.m.—Tennis solo:
 "Herd Song" ("Songs of the North"—Mr. Lawson).

- 11.31 a.m.—Pianoforte solo:
 "Impromptu in A Flat, op. 142 No. 2" (Schubert).

- 11.35 a.m.—Orchestral selection:
 "In the Hall of the Mountain King" (Peer Gynt Suite—Wagner).

- 11.40 a.m.—Studio selection.
 11.54 a.m.—Violin solo:
 "Sousvair" (Dudal).

- 11.58 a.m.—Studio selection.
 12 noon.—Pianoforte solo:
 "Study in E Major, op. 30, No. 3" (Chopin).

- 12.5 p.m.—Selections:
 (a) "Favourite Strains from 'Faust' (Gounod).
 (b) Overture, "Poet and Peasant" (Von Falla).
 (c) "Operatic."

- 12.27 p.m.—Routine of forward programme.
 12.30 p.m.—Close down.
 7 p.m.—Studio selections.

- 7.30 p.m.—Douglas Rae, tenor:
 "A Dream" (Barletti).

- 7.34 p.m.—Miss Madeline Barnett:
 Violin solo, Selected.

- 7.38 p.m.—Sonora selection.
 7.45 p.m.—Miss Madeline Barnett:
 Violin solo, Selected.

- 7.49 p.m.—Col. Paris and steel guitar:
 (a) "Forget-me-not."
 (b) "Sweet Hawaiian Moonlight."

- 8.0 p.m.—Col. Paris and his Orchestra:
 Selected.

- 8.10 p.m.—Douglas Rae, tenor:
 "Where art Thou Work" (Handel).

- 8.14 p.m.—Colin Dun, steel guitar:
 "Nearer, My God, to Thee."

- 8.18 p.m.—Sonora selection.
 8.22 p.m.—Miss Madeline Barnett:
 Violin solo, Selected.

- 8.27 p.m.—Col. Paris and his Orchestra.
 8.37 p.m.—Colin Dun, steel guitar:
 (a) "Katin Waltz."
 (b) "Spanish Town."

- 8.43 p.m.—Col. Paris and his Orchestra.
 8.58 p.m.—Studio selection.

- 9.5 p.m.—Col. Paris and his Orchestra.
 9.19 p.m.—Colin Dun, steel guitar:
 (a) "Palakiko Blues."
 (b) "Isle of Golden Dreams."

- 9.24 p.m.—Studio selection.
 9.25 p.m.—Routine of forward programme.
 9.30 p.m.—Close down.

3LO, MELBOURNE.

Sunday.

MORNING SESSION.

- 10.10 a.m.—Bells from St. Paul's Cathedral.
 10.45 a.m.—Express train information.
 British Wireless news from Rugby.
 News from yesterday's papers.

MORNING SERVICE FROM THE AUSTRALIAN CHURCH, RUSSELL STREET, MELBOURNE.

- Minister: REV. CYPRUS E. MITCHELL.
 11 a.m.—Voluntary, Mr. Charles Tackwell.
 Hymn, "Holy, Holy, Holy."

- Prayer and Choral Responses.
 Chant, "Blessed are the Poor in Heart."
 1st Lesson, St. Mark 4, 1-9.
 Anthem.

- 2nd Lesson, St. Matthew 11—Selections.
 Prayer and Choral Answer.
 Hymn, "Thou Hidden Love of God."

- SERMON, "THE GLORY OF THE CHRISTIAN WAY," Rev. Cyprus E. Mitchell, M.A., D.D.

- Hymn, "Come spirit of All Truth and Love."
 Intimations and Offertory.
 Special Anthem.

- Prayer and Benediction.
 Choral Answer.
 12.15 p.m.—Close down.

AFTERNOON SESSION.

- PLEASANT SUNDAY AFTERNOON SERVICE, WESLEY CENTRAL MISSION.
 Chairman: REV. DR. S. J. HOBAN.

- 3 p.m.—Hymn, "All People that on Earth are Dwell."
 Prayer.

- Orchestral selection, Mr. G. M. WILLIAMS, Conductor.
 Hymn, "God Bless Our Native Land."

- Solo, Mr. J. ALEXANDER BROWNE.
 Orchestra.
 Solo, Mr. J. ALEXANDER BROWNE.
 Notices.

- Offering.
 Service.
 ADDRESS.

- National Anthem.
 Benediction.
 Orchestra.

- 4.30 p.m.—Close down.

EARLY EVENING SESSION.

CHILDREN'S HOUR.

EVENING SESSION.

- SERVICE FROM PLEASANT ST. METHODIST SUNDAY SCHOOL, BALLARA, 30th ANNIVERSARY.

- Preacher: REV. W. J. PALAMOUNTAIN.
 Conductor: MR. A. E. ROBINSON.

- 7 p.m.—Doxology.
 Hymn, "King of Kings" Choir.

- Prayer.
 Hymn, "Trusting His Promise," Choir.
 Scripture Lesson.

- Duet and Chorus, "Say it with Flowers," Misses ELLA and DOBS LEVISTON.
 Scripture Lesson, "Palm 34."

- Anthem, "The Strength of God," Choir.
 Notices and Offering.

- Hymn, "Waiting for the Spring" Choir.
 Hymn, "Never Forget God," Choir.

- SERMON: "THE HOUSE OF OBEDED-ED." 1st Chron. 13, v. 14, Rev. W. J. PALAMOUNTAIN.

- Solo, Miss ADELE PEARSON.
 Hymn, "Come Unto Me," Choir.
 Benediction.

- Hymn, "Share Your Blessings," Choir.
 FROM THE STUDIO.

- 8.30 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA.
 Overture, "Hungarian Lustspiel" (Kraus Bela).

- 8.40 p.m.—ELLA KINGSTON, soprano:
 "Death of Joan of Arc" (Bemberg).
 "All Ye People" (Dubois).

- 8.45 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA.
 "Serenade" (A. Emil Tint).
 "Cello Solists, E. Argente. Flute obligato, J. Berillo.

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8.55 p.m.—SENIA CHOSTAKOFF, Russian Tenor (title subject was the "Don Quixote").
 Selections from his Repertoire.
 9 p.m.—CARLO BRUGLIA, violin:
 "Romio Ben Tullio" (Italian).
 9.5 p.m.—ELLA KINGSTON, soprano:
 "There is no Death."
 "Love's Benediction" (Airsong).
 9.14 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA:
 "Balala Karyana" (Lullaby).
 9.25 p.m.—SENIA CHOSTAKOFF, Tenor:
 Selected.
 9.33 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA:
 "Peer Gynt Suite" (Grieg).
 9.59 p.m.—News.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY IS FOR EVERYBODY:
 "A word to the wise, we look your eyes. Your eyes are the windows of your soul." Under the auspices of the HEALTH ASSOCIATION of Australasia, the HEALTH MESSAGE for to-day is: "Better habits, better children, better citizens, better city."
OUR GREAT THOUGHT:
 "Eyes from a corner it is possible to spring up into heaven; rise, therefore, and form thyself into a fashion worthy of God; thou canst not do this, however, with cold and silver; an image like to his cannot be formed out of such materials as these."
 —Seneca.

10 p.m.—GOD HAVE THE KING.

4QG, BRISBANE.

Sunday.
MORNING SESSION.
WHARF STREET CONGREGATIONAL CHURCH.
 The complete morning service will be relayed from Wharf St. Congregational Church.
 11 a.m.—FROM WHARF STREET CHURCH: Church Service.
 12.30 p.m.—Conclusion. Close down.

AFTERNOON SESSION.
BAND CONCERT.
 The Band Test Concert will be relayed from the Brisbane Botanic Gardens.
 3 p.m.—FROM THE BOTANIC GARDENS: Test Programme under the auspices of the Queensland Band Association. The following bands will compete:
 (a) Crozier's.
 (b) Federal.
 (c) Citymen.
 (d) Windsey.
 (e) Royal Australian Naval.
 The competing bands and the remarks of the three adjudicators will be relayed.
 5 p.m.—Close down.

NIGHT SESSION.
WHARF STREET CONGREGATIONAL CHURCH.
 The complete evening service will be relayed from the Wharf Street Congregational Church.
FROM WHARF STREET CHURCH:
 7 p.m.—Children's Service.
 7.30 p.m.—Evening Service.
BAND CONCERT.
 At the conclusion of the church service, the band concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.
 9.30 p.m.—Close down.

6WF, PERTH.

Sunday.
 10.45 a.m.—Time in.
 11 a.m.—Morning Service relayed from St. Mary's R.C. Cathedral, Perth.
 11.15 p.m.—Close down.
 6.30 p.m.—Time in.

FROM THE STUDIO.
 8.55 p.m.—Musical programme from the Studio, including vocal and instrumental artists.
 4.30 p.m.—Close down.
 7 p.m.—Time in.
 1.5 p.m.—Children's bedtime stories.
 6.55 p.m.—Evening Service, relayed from Salvation Army Citadel, Four Street, Perth.
A RELAY.
 8.45 p.m.—After-Church Service, relayed from Queen's Hall, Williams Street.
 10.5 p.m.—Close down.

7ZL, HOBART.

Sunday.
MORNING SESSION.
 11 a.m.—Church Service from St. David's Cathedral, Hobart.
 Close down.
AFTERNOON SESSION.
 2.30 p.m.—Pianist, Sunday Afternoon Concert from the Studio.
 4.30 p.m.—Close down.
EARLY EVENING SESSION.
 6.30-7 p.m.—Children's Corner, with the "Radio Lady."
NIGHT SESSION.
 7 p.m.—Church Service, from Chalmers' Church, Hobart.
 Preacher, Rev. H. Carroll, B.A. Organist, Mr. Frank Carter.
 An occasion of Church Service either Band Concert from St. David's Park or Concert from the studio.
 8.50 p.m.—"Mercury" news service.
 British Official Wireless News.
 Weather forecasts.
 Station announcements.
 National Anthem.

Monday, Nov. 7
2FC, SYDNEY.

EARLY MORNING SESSION.
 7 a.m. to 8 a.m.
MORNING SESSION.
 10 a.m.—"Big Ben" and programme announcements.
 10.5 a.m.—Studio music.
 10.15 a.m.—"Sydney Morning Herald" news service.
 10.40 a.m.—Studio music.
 10.55 a.m.—Last minute racing information by the TFC commentators.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben." Marching music for school children.
 11.5 a.m.—A.P.S. and Reuters' cable service.
 11.15 a.m.—A reading.
 11.30 a.m.—Close down.
MIDDAY SESSION.
 12 noon—"Big Ben" and announcements.
 12.3 p.m.—Stock Exchange, first call.
 12.5 p.m.—Weather forecast, rainfall.
 12.10 p.m.—Studio music.
 12.14 p.m.—Summary of "Sydney Morning Herald" news service.
 12.25 p.m.—Early wireless news.
 12.30 p.m.—Marching music for school children.
 12.40 p.m.—Lavin Berwick, baritone:
 "When I was a heart" (Gounod).
 12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 12.50 p.m.—Studio music.
 1 p.m.—"Big Ben." Weather intelligence.
 1.15 p.m.—"Evening News" midday news service.
 Producers' Distributing Society's report.

1.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 1.30 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching music for school children.
 1.35 p.m.—Lavin Berwick, baritone:
 "Because" (D'Hardicot).
 1.40 p.m.—Studio music.
 1.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

2 p.m.—"Big Ben" and announcements.
 2.15 p.m.—Studio music.
 2.15 p.m.—A reading.
 2.30 p.m.—Marching music for school children.
 2.40 p.m.—From Farmer's Tea Rooms: Irene Duncan, soprano.
 3.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 3.55 p.m.—Eileen Semple, contralto, from the Studio:
 "Tired Hands" (Sandewas).
 4 p.m.—From Farmer's Tea Rooms: Jeanette Rossiter, contralto:
 "I passed by your window" (Ehrlich).
 4.5 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 4.15 p.m.—Eileen Semple, contralto, from Farmer's Tea Rooms:
 "Quiet" (Walter Sanderson).
 4.20 p.m.—From Farmer's Tea Rooms: Irene Duncan, soprano.
 4.55 p.m.—THE OAK HALL INSTRUMENTAL TRIO (leader, Mr. Herbert Keats).
 4.55 p.m.—From the Studio: Nellie Larkin, violoncello.
 4.40 p.m.—From Farmer's Tea Rooms: Jeanette Rossiter, contralto:
 "When the ships come home" (Olivier).
 4.45 p.m.—Stock Exchange, third call.
 Studio music.
 5.00 p.m.—From the Studio: Nellie Larkin, violinist.
 5 p.m.—"Big Ben."
 Close down.

EARLY EVENING SESSION.

5.42 p.m.—Programme announcements and chimes.
 5.45 p.m.—The "Hello Man" talks to the children.
 5.50 p.m.—Story time for the young folk.
 5.40 p.m.—Studio music.
 6.05 p.m.—Late sporting information.
 7 p.m.—"Big Ben." Dalgety's market reports (wheat, wheat and stock).
 7.8 p.m.—Fruit and vegetable markets.
 7.10 p.m.—Weather and shipping news.
 7.10 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.30 p.m.—Programme announcements.
 7.25 p.m.—Lola Bouffrey, lady baritone:
 "I was nibbling the knob of my cane."
 "A lane in Spain."
 7.42 p.m.—A talk by Mr. J. R. Kinghorn on "Cinema Criticism."
 7.54 p.m.—Lola Bouffrey, lady baritone:
 "What are we waiting for" (Little).
 "I can't get over a girl like you" (Bromes).
 8 p.m.—"Big Ben." From the Haymarket Theatre, George Street, Sydney: The Harmonious Operatic Orchestra, under the baton of Mr. Stanley Purser.
 8.15 p.m.—From the Wahroonga Hall: Items from the monthly concert of the North Sydney Orphans. Artists will include:
 Rene Maxwell, soprano.
 Leo Marrice, popular baritone.
 Stanley Cook, comedienne.
 Harry White, novelty pianist, and others.
 8.4 p.m.—Weather forecast.
 8.5 p.m.—From the Haymarket Theatre, George Street, Sydney: Vocal act.
 9.20 p.m.—From the Barriat Hall, Ultimo: The Sydney Harmonic Society's Chorus, conducted by Mr. W. Bourne.
 9.50 p.m.—Part song, "The Caravane" (Bosain).
 The Sydney Harmonic Society's Chorus.

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Part song, "The Bells of St. Michael's Tower" (Stewart).

9.25 p.m.—From the Studio: Cyril Coy and his dance orchestra in popular numbers.

9.45 p.m.—From the Baptist Hall, Ultimo: The Sydney Harmonic Society's Choir.

Eolo (with male choir accompaniment), "The Cottage on the Hill" (Old Welsh Melody). Solist, Mr. J. Smith.

Male chorus:

"The Belemuerer" (Sullivan).

"Twilight" (Buck).

10 p.m.—From the Wahroonga Hall: Items from the monthly concert by the North Sydney Orphans.

10.30 p.m.—From the Haymarket Theatre, Sydney:

Orchestral items.

10.40 p.m.—From the Wahroonga Hall: Items from the monthly concert by the North Sydney Orphans.

Weather forecast at approx. 10.30 p.m.

10.40 p.m.—From the Studio: Cyril Coy and his dance orchestra.

10.55 p.m.—Late news and announcements.

11 p.m.—"Big Ben."

Cyril Coy and his dance orchestra.

11.30 p.m.—National Anthem.

Close down.

2BL, SYDNEY

Monday.

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

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and Chimes.

Musical programme from the Studio.

10.40 a.m.—News from the "Daily Telegraph" (Victoria).

10.50 a.m.—Musical programme from the Studio.

11 a.m.—G.P.O. Clock and Chimes.

Announcements.

11.5 a.m.—Musical programme from the Studio

11.15 a.m.—Talk on "Tennis" by Miss Gwen Varley, Broadcasters' Women's Sports Authority.

Social Notes—Replies to correspondents by Mrs. Jordan.

Talk on "Summer Breakfasts" by Mrs. Jordan.

12 noon—G.P.O. Clock and Chimes.

Special Ocean Forecast and Weather Report.

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

12.5 p.m.—Information—Mails, Shipping, and Port Directory.

12.11 p.m.—Bells in call by Wireless.

12.13 p.m.—Fruit Market report.

12.15 p.m.—Vegetable Market report.

12.17 p.m.—London Metal Market report.

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

12.22 p.m.—Forage Market report.

12.24 p.m.—Fish Market report.

12.28 p.m.—Rabbit Market report.

12.28 p.m.—Stock Exchange report.

12.30 p.m.—H.M.V. Gramophone Recital.

1.27 p.m.—Stock Exchange report.

1.30 p.m.—G.P.O. Clock and Chimes.

Talk to Children and Special Entertainment for Children in Hospital.

1 p.m.—G.P.O. Clock and Chimes.

Close down.

AFTERNOON SESSION.

Racing information broadcast immediately after each race, by courtesy of the "Sun."

1 p.m.—G.P.O. Clock and Chimes.

Musical programme from the Studio.

1.15 p.m.—News from the "Sun."

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

1.30 p.m.—News from the "Sun."

1.40 p.m.—Dungowan Dance Band, broadcast from the Dungowan Cabaret.

4 p.m.—G.P.O. Clock and Chimes.

News from the "Sun."

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

4.15 p.m.—Serial Story.

4.30 p.m.—Dungowan Dance Band.

4.50 p.m.—News from the "Sun."

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

4.47 p.m.—Racing resume.

4.50 p.m.—Special ocean forecast.

5 p.m.—G.P.O. Clock and Chimes.

Close down.

EARLY EVENING SESSION.

4.45 p.m.—G.P.O. Clock and Chimes.

Children's Session.

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

SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and Chimes.

Australian Mercantile Land and Finance Co. Report.

Weather report and forecast by courtesy of Government Meteorologist.

Producers Distributing Society's Fruit and Vegetable market report.

Stock Exchange reports.

Grain and fodder report ("Sun").

Dairy produce report ("Sun").

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

1.30 p.m.—Talk on "The Motor Car," by Mr. Martin.

EVENING SESSION.

8 p.m.—G.P.O. Clock and Chimes.

Broadcasters' Typical Chorus.

An Hour's programme presented by Lindeman's Wines, Ltd.

8.5 p.m.—King's Mandolin Orchestra, under the direction of Mr. C. C. King.

8.59 p.m.—Songs at the Piano, by Miss Beryl Scott.

8.17 p.m.—Mr. Claude Holland (light comedian), makes his first appearance from this Studio.

8.22 p.m.—Dorothy Manning and Harry Graham present humour and harmony.

8.37 p.m.—Baritone songs by Mr. Dudley Helmrich.

8.44 p.m.—Selections by the Newtown Band, transmitting from the Industrial Hall, Newtown.

9.4 p.m.—Weather report and forecast by courtesy of Mr. E. J. Mares, State Government Meteorologist.

9.5 p.m.—Dance Music by the Wentworth Symphonic Dance Orchestra.

9.13 p.m.—Miss Beryl Scott (Songs at the Piano).

9.22 p.m.—Broadcasters' All Sports Expert will talk on General Sporting.

9.37 p.m.—Further Selections by the Newtown Band.

9.57 p.m.—Resume of the following day's programme.

10 p.m.—G.P.O. Clock and Chimes.

10.1 p.m.—King's Mandolin Orchestra.

10.8 p.m.—Mr. Claude Holland (light comedian).

10.15 p.m.—Dance Music by the Wentworth Symphonic Dance Orchestra.

10.25 p.m.—Mr. Dudley Helmrich (baritone).

10.37 p.m.—Dance Music by the Wentworth Symphonic Dance Orchestra.

10.42 p.m.—"Sun" news service.

10.50 p.m.—Dance Music by the Wentworth Symphonic Dance Orchestra.

11 p.m.—G.P.O. Clock and Chimes.

National Anthem.

2GB, SYDNEY

Monday.

MORNING SESSION.

9 a.m.—Music.

9.5 a.m.—"Oberio" Talk.

9.15 a.m.—Music.

9.25 a.m.—Psychological Class.

9.40 a.m.—Music.

9.45 a.m.—Health and Diet.

10 a.m.—Close down.

AFTERNOON SESSION.

2.30 p.m.—Music.

3.27 p.m.—Address by Professor Ernest Wood.

4.52 p.m.—Music.

4 p.m.—Address.

4.22 p.m.—Music.

4.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Music.

7.15 p.m.—Address by Mr. E. Warner.

7.30 p.m.—Music.

7.45 p.m.—Mr. J. K. Powell.

7.50 p.m.—Music.

7.55 p.m.—Recital by Mr. Heath Burdick.

7.58 p.m.—Songs by Mr. W. J. Stelzer.

8.5 p.m.—Address by Professor Ernest Wood.

8.20 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK.

8.30 p.m.—Songs by Miss Ethel Jones:

(1) "Castilian Lament" (Delibes).

(2) "Tiptoe" (Carew).

8.38 p.m.—Cello solo, MURIELLE LANG:

(1) "Kol Nidrei" (Max Bruch).

8.54 p.m.—Instrumental Trio: MURIELLE LANG, ADA BROOK.

9 p.m.—Address by the Rev. R. D. S. Hammond:

"Mending Broken Men."

9.15 p.m.—Songs by Mr. W. J. Stelzer.

9.25 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK.

9.40 p.m.—Songs by Miss Ethel Jones:

(1) "Wild Rose" (Schubert).

(2) "May Way at Islington" (Osbourn).

9.50 p.m.—Talk.

10 p.m.—Close down.

2UW, SYDNEY

Monday.

9 a.m.—News, shipping, mails, studio items.

9.45 a.m.—Women's Session.

9.59 a.m.—Resume of forward programme.

10 a.m.—Close down.

12.15 p.m.—Special Employees' Luncheon Session.

1.45 p.m.—Close down.

2 p.m.—Studio items.

2.59 p.m.—Resume of forward programme.

3 p.m.—Close down.

4 p.m.—Studio items.

4.59 p.m.—Resume of forward programme.

5 p.m.—Close down.

7 p.m.—Sonata selection.

7.4 p.m.—Where to Go.

7.50 p.m.—Miss Helen Mackenzie: "Health" and "Chiropractic."

7.56 p.m.—Miss Alline O'Connor: Songs at the piano.

7.57 p.m.—Pianoforte selection: "Cavallerie Rusticana."

7.54 p.m.—Douglas Rae, tenor: "Drink to Me only with Thine Eyes."

7.55 p.m.—Miss Ruth Barden, contralto: "The Arrow and the Song" (Hallé).

7.54 p.m.—Violin solo, Bruce Hudson: Selected.

7.58 p.m.—James W. Downing: "Town Planning."

7.48 p.m.—Madame Arlino Sauer: Pianoforte solo, Selected.

7.54 p.m.—James Jackson, baritone: Selected.

7.54 p.m.—Jean Edwards, soprano: "Sometimes at Dawn."

8.2 p.m.—"Photographic Chat" by Mamma Harrington.

8.4 p.m.—Violin solo, Bruce Hudson: Selected.

8.9 p.m.—Madame Lillian May, soprano: "Amarelio" (Winn).

8.11 p.m.—Miss Ruth Barden, contralto: "My Rosary" (Liszt).

8.17 p.m.—Douglas Rae, tenor: "Because" (D'Hardelle).

8.22 p.m.—Robert Meadows, euphonium solo: "Under the Double Eagle," March (Wagner).

8.28 p.m.—James Jackson, baritone: Selected.

8.52 p.m.—Miss Vera Turner, mezzo soprano: Selected.

8.37 p.m.—Miss Ruth Barden, contralto: "Angus MacDonal" (Rockell).

8.42 p.m.—Miss Jean Edwards, soprano: "Who is Sylvia" (Schubert).

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Radiokes engineers have been continually improving this now famous product, and among other advances this kit now includes: Bakelite winding forms, improved design of windings, no dope used in construction, new rigid internal mounting, permanent solder lugs with additional screw terminals and more accurate matching.

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- 2.45 p.m.—Robert Bradshaw, euphonium solo: "My Dear Soul" (Sanderson).
 2.50 p.m.—James Jaschay, baritone: Selected.
 2.54 p.m.—Madame Lillian May, soprano: (1) "Two Eyes of Grey." (2) "Valse" (Hussell).
 3 p.m.—Musa Vera Turner, mezzo soprano: Selected.
 3.4 p.m.—Official news and weather forecast.
 3.5 p.m.—Solo selections.
 3.55 p.m.—Resume of forward programme.
 3.58 p.m.—"Good Save the King."

3LO, MELBOURNE.

Monday

MIDDAY SESSION.

- 11 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL. British Official Wireless News from Rugby. Reuters' and the Australian Press Association Cables. "Argus" News Service.
 12.05 p.m.—STUDIO QUARTET: Selection, "Cherwell's Song."
 12.30 p.m.—GRACE JACKSON, contralto: "The Call of the Martins" (Liza Heabe). "Just Because the Violets" (Kennedy Russell).
 12.37 p.m.—Stock Exchange information.
 12.40 p.m.—AGNES FORTUNE, piano: Suite in G Op. 2, No. 3 (Beethoven).
 12.45 p.m.—STATION TRIO: "The Miller and His Men" (Bishop).
 1 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL "Do something for somebody. Idleness is the nurse of Naughtiness, the chief author of all mischief, one of the seven deadly sins."
 1.1 p.m.—NORMAN BRADSHAW, tenor: "Sometimes in Summer" (Bennett). "Red Devon by the Sea" (Clarke).
 1.15 p.m.—Meteorological information. Weather forecast for Victoria, South Australia, Tasmania and New South Wales. Ocean Forecast. River Reports for Victoria, South Australia, Tasmania and New South Wales.
 1.18 p.m.—STUDIO QUARTET: Suite, "In the Days of Romance."
 1.25 p.m.—GRACE JACKSON, contralto: "There's a Song down every Roadway" (Haden Wood). "Little Brown Cottage" (Dickson).
 1.32 p.m.—TASMA TIERNAN, alto: "A Memory" (Tanner). "Abide with Me" (Liddle).
 1.40 p.m.—NORMAN BRADSHAW, tenor: "Come into the Garden, Mauds" (Balle). "Rosebud" (Drummond).
 1.47 p.m.—REGINALD BEADLEY AND AGNES FORTUNE: "Kreutzer Sonata," 1st movement (Beethoven).
 2 p.m.—Description of Cup Hurdle, two miles, WILLIAMSTOWN RACES, by "Newbury" of "The Argus."
 2.15 p.m.—Close down.
 2.40 p.m.—Description of Two-Year-Old Handicap, 1½ furlongs, WILLIAMSTOWN RACES, by "Newbury" of "The Argus."
 2.45 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—Melbourne Observatory Time Signal.
 3.1 p.m.—BOY'S GARDINER REGENT ORCHESTRA: "Ole So" (Foules).
 3.15 p.m.—Description of Williamstown Cup, 1½ miles, WILLIAMSTOWN RACES, by "Newbury" of "The Argus."
 3.20 p.m.—MRS. DOROTHY SILK: "Homecoming."
 3.25 p.m.—BOY'S GARDINER REGENT ORCHESTRA: "Melodie" (Hachamianoff).
 3.42 p.m.—HAMILTON BATEMAN, violin: "Hungarian Dances" (Brahms). "Valse Bruch" (Edge Auer).
 3.50 p.m.—BOY'S GARDINER REGENT ORCHESTRA: Selection, "Cavaliera Rusticana" (Mascagni).

- 4 p.m.—Description of Sleepchase, about 2 miles, WILLIAMSTOWN RACES, by "Newbury" of "The Argus."
 4.5 p.m.—ANITA SHAW, soprante: "Till Take Him Duck." "Smile, and Keep Smiling."
 4.15 p.m.—BOY'S GARDINER REGENT ORCHESTRA: Trio, "Londonderry Air."
 4.15 p.m.—We are pleased to present to you again: JOE BRENNAN and IDA NEWTON, comedians, in "The Bugrats' Discovery."
 4.28 p.m.—BOY'S GARDINER REGENT CONCERT ORCHESTRA: "Danco of Navarra" (Liszt).
 4.35 p.m.—Description of Altona Handicap, mile, WILLIAMSTOWN RACES, by "Newbury" of "The Argus."
 4.40 p.m.—MISS FLORA PELL, Inspector of Schools: "Domestic Science."
 4.46 p.m.—"Herald" News Service: Stock Exchange information.
 4.50 p.m.—Description of Isaac Walter & Partners, WILLIAMSTOWN RACES, by "Newbury" of "The Argus."
 4.55 p.m.—Close down.

EARLY EVENING SESSION

CHILDREN'S HOUR.

- 5.30 p.m.—Acceptance for Wednesday's Races at Sunbury.
 5.35 p.m.—Answers to letters and Birthday greetings by "LITTLE MISS KOOKA-BURRA."
 5.45 p.m.—STUDIO QUARTET: "In a Clock Store." THE HEALTH MESSAGE for to-day is for CHILDREN: "The growth of the jaws depends upon the preservation and use of the first teeth. Don't throw away your crusts—eat them."
 5.52 p.m.—FREDA NORTHCOE AND HER STUDENTS: GLADYS CASSIDY; Song, "My Treasure" (Trevail). MALVINE CASSIDY: Character song, "Burlington Belle" (Hargreaves). HAZEL DOHREN: Song, "Only a River Running By" (Hopkins). GLADYS POPPINS, recitation: "Trials of a School Mistress." FREIDA CHAPMAN: Song, "Little Old Garden" (Howitt). HEVIE WATKINS: Song, "The Second Minuet" (Besly). GLADYS POPPINS, recitation: "Breton HILL." HILDA BROOKS: Song, "Down at the End of the Garden" (Brube). VERA OSIDER, SHEILA WAGG, OLIVE SHAW: "Three Modest Quakeresses."
 5.58 p.m.—Official Report of Newmarket Stock Sales, by the Associated Stock and Station Agents, Bourke Street, Melbourne; number of sheep and cattle drawn for week's sales.
 6.05 p.m.—"Herald" News Service. Weather Synopsis, Shipping Movements.
 6.08 p.m.—Stock Exchange information.
 6.15 p.m.—River Reports.
 6.20 p.m.—Fish Market Reports by J. R. Barrett, Ltd. Balbitis prices.
 7.2 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.: Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market reports of fruit by the Victorian Fruitgrowers' Association. Retail prices. Wholesale prices by the Wholesale Fruit Merchants' Association.

EVENING SESSION.

- 7.15 p.m.—MR. PHILIP LEWIS (The Wandering Jew) of the Outback and Swaggle Presser) will give a descriptive Talk of his Journeys outback.
 7.20 p.m.—MR. E. C. H. TAYLOR will talk to girls and boys on "School Life and School Sport."

- 7.45 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, Mr. H. C. WILSON, Manager, State Research Farm, Werribee, will talk on "Making Ensilage."
 8 p.m.—MR. H. J. FAY, International Sprinter, will talk on "Omnium Track and Field Events: Quarter Mile."
 8.12 p.m.—Giri Guide Notes.
 8.15 p.m.—BRUNSWICK CITY BAND: Selection, "Lurline" (Wallace).
 8.20 p.m.—ELLA RIDDELL, contralto: "The Merry" (Old Scotch). "They're Four, Four, Awa" (Old Scotch).
 8.22 p.m.—BRUNSWICK CITY BAND: Intermission, "Los Cocheros de St. Moia" (Hummert).
 8.30 p.m.—ELLA RIDDELL, contralto: "My Heart is True" (Old Scotch). "Glasses in the Air" (Old Scotch).
 8.35 p.m.—BRUNSWICK CITY BAND: Euphonium solo, "Schummarlied" (Van Biens).
 8.40 p.m.—Miss Walter: "Dungra" (Grafton). "Can You Forget" (Evey).
 9 p.m.—SIR JAMES BARRETT will speak on the Million Shipping Fund.
 9.5 p.m.—DOROTHEA MACMASTER: Piano Recital: Prelude (Casar Franck). "To a Water-Lily" (MacDowell). "A Deserted Farm" (MacDowell). "Witchery" (Feldin). "Ireland Speaks" (John Ireland).
 9.25 p.m.—Announcement: THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for to-day is for EVERYBODY. "Life is what we make it. Work safely and make it happy." Under the auspices of the HEALTH ASSOCIATION OF AUSTRALIA, the HEALTH MESSAGE for to-day is: "The growth of the jaws depends upon the preservation and use of the first teeth."
 9.25 p.m.—BRUNSWICK CITY BAND: March, "The Colonel's Parade" (Hume).
 9.34 p.m.—Presentation of Prizes to winners of One-Act Play Competition by Cr. Felix Lloyd:
 1. MRS. MAY MURPHY.
 2. MISS HELEN ARMSTRONG.
 3. JACK CURETT.
 9.41 p.m.—JOE BRENNAN and IDA NEWTON, comedians: "The Police Station."
 9.50 p.m.—SENIA CHOSTIAKOFF, tenor (late Don Cossacks' Ensemble): A Legend, "Dohrinia Nikiitch" (arr. L. E. Jaroff). "La Donna e Mobile" from Rigoletto (Verdi).
 9.57 p.m.—BRUNSWICK CITY BAND: Suite, "Four Indian Love Lyrics" (Hindon).
 10.7 p.m.—"Argus" news service. Meteorological information. British Official Wireless News from Rugby. Island steamer movements.
 10.25 p.m.—ANITA SHAW, soprante: "I never see Maggie Alone."
 10.22 p.m.—HAMILTON BATEMAN, violin: "Dance of the Goblins" (Bucini). "Ballad music, "Rosamunda" (Schubert-Erdler).
 10.29 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS: "You Know I Love You" (Morse). "I've Got Somebody Now" (Williams). "Hello, Hello" (Friend).
 10.38 p.m.—PAT MACLEAN, soprante: Impersonation, "Mr. Bear." Monologue, "And Yet I Don't Know."
 10.46 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS: "Brown Eyes in Your Dreams" (Tennant). "One Night of Love in Spain" (Hares). "Barbara" (Silver).
 10.53 p.m.—PAT MACLEAN, soprante: Impersonation, Selected. Burlesque, "Lecture."

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It is a scientifically made job, sturdily built, in a neat metal case, with Bakelite top, the whole measuring 10 1/2 x 9 1/2 x 6 1/2, weight 23 lbs.—and complete with cord and attachment plug.

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- 11.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
"For my Sweetheart" (Brown).
"Bouncing I Love You" (Berlin).
"She Don't Want" (Yellow).
"Charming Moon" (Nausbaum).
"Pleading" (Jones).
"I Won't Go Home Tonight" (Gilbert).
"That Certain Feeling" (Gershwin).
"Looking for a Boy" (Berlin).
"To in my Way Home" (Gershwin).
"By the Old Bed Mill" (Davis).
"Where the Love Bird Leaves the Nest" (Wade).
"Muddy Water" (De Rose).

11.6 p.m.—"GOD SAVE THE KING."

6WF, PERTH.

- Monday.
- 12.30 p.m.—Tune in.
- 12.45 p.m.—Markets, News, and Cables.
- 1 p.m.—Time signal from Perth Observatory.
- 1.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
- 1.2 p.m.—Studio Quintette, conducted by Mr. Val Smith.
- 2 p.m.—Close down.
- 2.30 p.m.—Tune in.
- 3.35 p.m.—Afternoon Tea Concert, relayed from the Carlton Cafe, Hay Street. Orchestral numbers by Mrs. Hogg's Orchestra.
- Vocal and instrumental numbers from the Studio.
- 4.50 p.m.—Close down.
- 4.55 p.m.—Tune in.
- 5.00 p.m.—Studio for the Kiddies, by Uncle Henry and Duffy.
- 5.20 p.m.—Stocks, Markets, News.
- 7.45 p.m.—Talk on the Acclimatization of Animals and Birds, by Lieut.-Col. Le Sotef, Director of the Zoological Gardens, South Perth.
- 8 p.m.—Time signal from Perth Observatory.
- 8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

CONCERT NIGHT.

- 8.5 p.m.—Musical programme, from the Studio, including vocal and instrumental extracts. Orchestral music by the Grand Symphony Orchestra, conducted by Mr. Val Smith, relayed from the Grand Theatre, Murray Street.
- 10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Co.
Ships within range announcement.
Weather Report and Forecast.
- 10.50 p.m.—Close down.
- 100 METRE TRANSMISSION.
Simultaneous Broadcast on 100 Metres of Musical programmes given on 1250 Metres, commencing at 8 p.m.

7ZL, HOBART

Monday.

MORNING SESSION.—11 a.m. to 12 noon.

AFTERNOON SESSION.

- 8 p.m.—G.P.O. Clock Chimes.
- 8.1 p.m.—Tune in selection.
- 8.5 p.m.—Hobart Stock Exchange quotations. Weather information. Items of interest. Announcements.
- 9.15 p.m.—Musical selections by 7ZL Studio Trio.
- 4.15 p.m.—Fashion Talk, by "Aunt Edna," of Brownells Ltd., Hobart.
- 4.20 p.m.—Close down.
- EARLY EVENING SESSION.
- 8.00 p.m.—"Uncle Peter's" Half-hour.
- 7 p.m.—"Uncle Peter's" talk to the children.

NIGHT SESSION.

- 7.30 p.m.—Musical selection.
- 7.35 p.m.—Special Culture Talk, by Lieutenant Reginald McKinnock.
- 7.50 p.m.—"Mercury" special Tasmanian news service.
Railway Auction Produce Sales.
Weather information.
Hobart Stock Exchange quotations.
- 8 p.m.—G.P.O. Clock Chimes.
- 8.1 p.m.—During the Night Session our Great "Mystery" Competition will be conducted. Studio Concert, under the direction of Mrs. Benson.
- 9 p.m.—Talk on Tasmanian Beauty Spots: "Lake St. Clair," by Mr. E. T. Bennett.
- 9.40 p.m.—British Official Wireless News.
- 9.50 p.m.—"Mercury" special interstate news service.
Tasmanian District Weather Reports.
8 a.m. Weather Forecasts.
Station Announcements.
National Anthem.

Tuesday, Nov. 8 2FC, SYDNEY.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and programme announcements.
- 10.5 a.m.—Studio music.
- 10.15 a.m.—"Sydney Morning Herald" news service.
- 10.50 a.m.—Studio music.
- 10.55 a.m.—Late sporting information by the 2FC Racing Commentator.
- 10.45 a.m.—Studio music.
- 11 a.m.—"Big Ben." Marching music for school children.
- 11.0 a.m.—A.P.A. and Reuter's cables.
- 11.10 a.m.—Studio music.
- 11.15 a.m.—A talk on home cooking and recipes by Miss Ruth Funn.
- 11.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and programme announcements.
- 12.2 p.m.—Stock Exchange, 6mat call.
- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—Studio music.
- 12.55 p.m.—Summary of "Sydney Morning Herald" news service. Hugs wireless news.
- 12.25 p.m.—Studio music.
- 12.40 p.m.—Marching music for school children.
- 12.45 p.m.—Annie Sedger, mezzo.
"Will Dawns" (Lowe).
- 12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 12.55 p.m.—Studio music.
- 1 p.m.—"Big Ben." Weather intelligence.
- 1.15 p.m.—"Evening News" midday news service. Producers' Distributing Society's report.
- 1.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 1.25 p.m.—Stock Exchange, second call.
- 1.30 p.m.—Marching music for school children.
- 1.40 p.m.—Annie Sedger, mezzo.
- 1.45 p.m.—Studio music.
- 1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
- 3.5 p.m.—A vocal recital by the pupils of Miss Mabel Batchelor.
- 3.30 p.m.—Marching music for school children.
- 3.40 p.m.—From Farmer's Tea Rooms: Eileen Moran, soprano.
- 3.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO (from Farmer's Tea Rooms).
- 3.55 p.m.—From the Studio, Doris Hastelow, soprano:
"Anarelli" (Winn).
4 p.m.—From Farmer's Tea Rooms, Murie Watt, contralto:
"An Emblem" (Thompson).

- 4.5 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 4.15 p.m.—From the Studio, Olive Cameron, soprano:
"A Caution" (Hines).
4.25 p.m.—From Farmer's Tea Rooms, Eileen Moran, soprano.
- 4.35 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 4.35 p.m.—From the Studio, Doris Hastelow, soprano.
- 4.40 p.m.—From Farmer's Tea Rooms, Murie Watt, contralto:
"The King is Sweet" (Sara Socoli).
4.45 p.m.—Stock Exchange, third call.
- 4.47 p.m.—From the Studio, Olive Cameron, soprano:
"Angus MacDonald" (Roedel).
4.50 p.m.—Studio music.

4.50 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

7.40 p.m.—Programme announcements and Chimes of 2FC.

7.45 p.m.—The "Hello Man" Talks to the Children.

7.50 p.m.—Story time for the Young Folk.

7.50 p.m.—Dinner Music.

8.00 p.m.—Late sporting information.

8.05 p.m.—"Big Ben." "Baggers" Market reports (Wood, Wheat and Stock).

8.05 p.m.—Fruit and Vegetable Markets.

8.10 p.m.—Late Weather and Shipping news.

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

NIGHT SESSION.

- 7.30 p.m.—Programme announcements.
- 7.35 p.m.—A Talk on Armistice Day by a Member of the Limbers Soldiers' Association.
- 7.45 p.m.—Selwyn Sermon, Elocutionist:
"A Liberal Education" (Anthony Hoops).
- 8 p.m.—"Big Ben." Hugs, the Darlington Town Hall, The Metropolitan Band, conducted by Mr. John Palmer.
March, "The Higher Grade" (Karter).
Overtures, "The Golden Scap" (Greenwood).
- 8.15 p.m.—From the Conservatorium Hall, Sydney, Items from the Monthly Concert by the British Music Society.
Assisting A. A. has:
Winifred Burton, solo pianist.
Gwen Selzer, soprano.
The British Musical Society's Girls' Quartette.
Ruth Conway and Scott Craig, Violin and Piano Sonatas.
- 8 p.m.—"Big Ben." From the Studio.
Late Weather forecast.
- 8.1 p.m.—Selwyn Sermon, Elocutionist:
"Rio Grand" ("Barrio" Paterson).
- 8.7 p.m.—From the Conservatorium Hall, Continuation of the programme by the British Music Society.
- 8.15 p.m.—From the Darlington Town Hall, The Metropolitan Band, conducted by Mr. John Palmer.
Fox Trot: "It all depends on you" (Sylvia).
Selection, Mendelssohn (arr. Hawkins).
- 8.53 p.m.—From the Studio, Victor Evans, baritone:
(a) "L'Artiste" ("Un Ballo in Troncha" (Verdi)).
(b) "Elegy" (Massenet).
- 10 p.m.—"Big Ben." The Two Vagabonds, instrumentalists.
- 10.8 p.m.—From the Darlington Town Hall, The Metropolitan Band:
Waltz, "Gents" (Raymond).
March, "The North Sea" (Rimmer).
- 10.20 p.m.—From the Studio, Victor Evans, baritone:
(a) "Thou'rt passing hence my brother" (Sullivan).
(b) "The Carpet" (Sanderson).
- 10.25 p.m.—The Two Vagabonds, instrumentalists.
- 10.35 p.m.—Latest Weather forecast.
- 10.30 p.m.—From the Ambassadors, The Ambassadors Orchestra, under the baton of Mr. At Hammett.
- 10.55 p.m.—Late news and announcements.
- 10.55 p.m.—"Big Ben." The Ambassadors Orchestra, in popular numbers until 11.30 p.m.
- 11.30 p.m.—National Anthem.
Close down.

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Filament voltage.	3.2—3.8	3.2—3.8	3.0	2.5—3.0	3.0	3.0	1.8—2.0
Filament current, amps.	0.6	0.6	.06	.06	.06	.06	0.3
Anode voltage ..	30—90	30—90	50—125	20—100	30—100	30—100	50—125
Total emission, m/a.	5	5	8.0	8.0	8.0	8.0	8.0
Impedance, ohms	90,000	30,000	60,000	17,000	17,000	17,000	60,000
Purpose	Radio, also Resistance Coupling	Audio	Radio, also Resistance Coupling	Detector	Audio	Audio	Radio, also Resistance Coupling
	6/-	6/-	6/-	7/6	7/6	7/6	7/6
Type	D3 Det.	D3 L.F.	MD3	DFA0	DFA1	DFA3	DFA4
Filament voltage.	1.6—2.0	1.8—2.0	1.8—2.0	5.5	5.5	5.5—6.0	5.5
Filament current, amps.	0.3	0.3	0.3	0.35	0.2	.06	0.2
Anode voltage ..	20—100	30—100	30—100	50—100	50—100	50—100	75—125
Total emission, m/a.	8	8.0	8.0	20.0	25.0	15.0	15.0
Impedance, ohms	16,000	16,000	16,000	7,000	8,300	13,000	27,000
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Mullard

THE MASTER VALVE

2BL, SYDNEY.

Tuesday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 8 p.m.—G.P.O. clock and chimes.
Broadcasters' Topical Chorus.
A programme of classical music from the Studio.
- 8.5 p.m.—Overture by Broadcasters' Light Orchestra under the direction of Mr. J. Knight Barnett.
- 9.11 p.m.—Miss Ethel Friend, contralto.
9.15 p.m.—Mr. Leslie McCallum, tenor.
9.25 p.m.—Mr. Gordon Hamilton, baritone.
9.32 p.m.—Piano solos by Mr. G. Vera Harnett.
- 9.40 p.m.—Mr. Alfred Willmore, tenor.
9.45 p.m.—Broadcasters' Light Orchestra.
- 9.55 p.m.—Weather report and forecast by courtesy of Mr. G. J. Maron, Government Meteorologist.
- 9 p.m.—G.P.O. clock and chimes.
- 9.51 p.m.—Miss Gladys Verona presents a recital of songs. Her farewell appearance before commencing a tour of Queensland.
- 9.51 p.m.—Broadcasters' Light Orchestra.
- 9.51 p.m.—Miss Ethel Friend.
- 9.59 p.m.—Mr. Leslie McCallum.
- 9.45 p.m.—Mr. Gordon Hamilton.
- 9.52 p.m.—Broadcasters' Light Orchestra.
- 10.2 p.m.—Resume of following day's Programme Announcements.
- 10.15 p.m.—Mr. Alfred Willmore.
10.15 p.m.—Dance music by the Westworth Symphony Orchestra broadcast from the ballroom of the Westworth. Between the dances, news items from Broadcasters' news service.
- 11 p.m.—G.P.O. clock and chimes.
Close down.

AFTERNOON SESSION.

- Racing information broadcast immediately after each race, by courtesy of the "Sun."
- 3 p.m.—G.P.O. clock and chimes.
- News from the "Sun."
- 3.15 p.m.—Civil Service Storm Trio—Direction, Miss de Courcy Bremer.
- 3.30 p.m.—G.P.O. clock and chimes.
- News from the "Sun."
- 3.50 p.m.—Musical programme from the Studio.
- 3.59 p.m.—News from the "Sun."
- 4 p.m.—G.P.O. clock and chimes.
- Civil Service Storm Trio.
- 4.15 p.m.—Serial story.
- 4.35 p.m.—Musical programme from the Studio.
- 4.50 p.m.—News from the "Sun."
- 4.55 p.m.—Resume of night's programme.
- 4.57 p.m.—Harping rumba.
- 4.59 p.m.—Special ocean forecast.
- 5 p.m.—G.P.O. clock and chimes.
Close down.

EARLY EVENING SESSION.

- 6.45 p.m.—G.P.O. clock and chimes.
Children's session.
- 6.50 p.m.—Musical programme from the Studio.
- SPECIAL COUNTRY SESSION.
- 7 p.m.—G.P.O. clock and chimes.
Australian Mercantile, Land, and Finance Co's report.
- Weather report and forecast by courtesy of Government Meteorologist.
Fruitgrowers' Distributing Society's fruit and vegetable market report.
Stock Exchange reports.
Grain and fodder report ("Sun").
Dairy produce report ("Sun").
P.M.H.A. 1911.

- 7.15 p.m.—Country news from the "Sun."
- 7.30 p.m.—Talk by a member of the St. John Ambulance Association.

- 8 p.m.—G.P.O. clock and chimes.
Broadcasters' Topical Chorus.
A programme of classical music from the Studio.
- 8.5 p.m.—Overture by Broadcasters' Light Orchestra under the direction of Mr. J. Knight Barnett.
- 9.11 p.m.—Miss Ethel Friend, contralto.
9.15 p.m.—Mr. Leslie McCallum, tenor.
9.25 p.m.—Mr. Gordon Hamilton, baritone.
9.32 p.m.—Piano solos by Mr. G. Vera Harnett.
- 9.40 p.m.—Mr. Alfred Willmore, tenor.
9.45 p.m.—Broadcasters' Light Orchestra.
- 9.55 p.m.—Weather report and forecast by courtesy of Mr. G. J. Maron, Government Meteorologist.
- 9 p.m.—G.P.O. clock and chimes.
- 9.51 p.m.—Miss Gladys Verona presents a recital of songs. Her farewell appearance before commencing a tour of Queensland.
- 9.51 p.m.—Broadcasters' Light Orchestra.
- 9.51 p.m.—Miss Ethel Friend.
- 9.59 p.m.—Mr. Leslie McCallum.
- 9.45 p.m.—Mr. Gordon Hamilton.
- 9.52 p.m.—Broadcasters' Light Orchestra.
- 10.2 p.m.—Resume of following day's Programme Announcements.
- 10.15 p.m.—Mr. Alfred Willmore.
10.15 p.m.—Dance music by the Westworth Symphony Orchestra broadcast from the ballroom of the Westworth. Between the dances, news items from Broadcasters' news service.
- 11 p.m.—G.P.O. clock and chimes.
Close down.

2 UW, SYDNEY

Tuesday.

- 9 a.m.—News, shipping, mails, studio items.
- 9.15 a.m.—Comer's Session.
- 9.29 a.m.—Resume of forward programme.
- 10 a.m.—Close down.
- 10.15 p.m.—Special Employees' Luncheon Session.
- 12.45 p.m.—Close down.
- 2 p.m.—Studio items.
- 2.30 p.m.—Resume of forward programme.
- 3 p.m.—Close down.
- 3 p.m.—Studio items.
- 3.59 p.m.—Resume of forward programme.
- 4 p.m.—Close down.
- 7 p.m.—Comer's selection.
- 7.4 p.m.—Where to Go.
- 7.10 p.m.—Favourite strains from "Faust."
- 7.18 p.m.—Miss Aileen O'Connor.
Songs at the piano, Selected.
- 7.33 p.m.—Duet, Trombone and Cornet.
"Night in Venice" (Locatelli).
- 7.36 p.m.—Gordon James McDonald, tenor.
Selected.
- 7.34 p.m.—Miss Sonia Sermovoy, soprano.
Selected.
- 7.38 p.m.—Miss Aileen O'Connor.
Songs at the piano, Selected.
- 7.43 p.m.—Gordon James McDonald, tenor.
Selected.
- 7.48 p.m.—Trombone solo.
"The Village Blacksmith" (Calder).
- 7.54 p.m.—Miss Sonia Sermovoy, soprano.
Selected.
- 7.58 p.m.—Gordon James McDonald, tenor.
Selected.
- 8.4 p.m.—Gems of the Opera, No. 11.
"Pavane" (Lennéville).
- 9 p.m.—Official news and weather forecast.
- 9.35 p.m.—Studio selections.
- 9.55 p.m.—Resume of forward programme.
- 9.50 p.m.—"God Save the King."

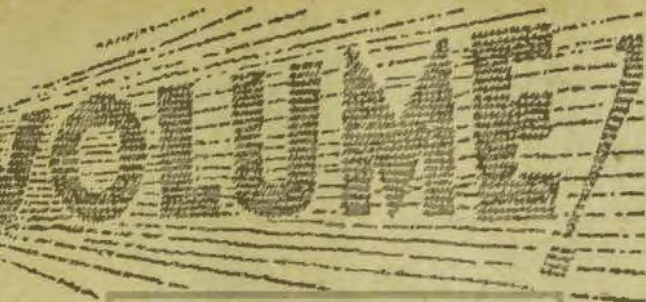
3LO, MELBOURNE.

Tuesday.

MIDDAY SESSION.

- 12 noon.—Melbourne Observatory Time Signal.
- Mixed prices received by the Australian Milk and Metals Association from the London Stock Exchange this day. British

- Official Wireless News from Rugby. Director's and the Australian Press Association. Cables. "Argus" News Service.
- 12.30 p.m.—THE ROYAL SCOTS:
"The King's Own" (Walter).
"My Old Remains Home" (Foster).
12.30 p.m.—MIDDAY QUARTET:
Pantalone Monologues—PART I (G. C. White).
12.40 p.m.—Stock Exchange information.
12.45 p.m.—BILLY BLINDOO, solo.
"You'll Never Be Troubled by the Sun"
(E. B. White).
- 12.50 p.m.—ANITA SHAWL, soloist.
"Take Me back to Old Virginia."
"I Was a Soldier."
- 12.55 p.m.—SPRING QUARTET:
"Spring Quartet, 'Old Black Joe'" (arr. Deakin).
- 1 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL. "The one of the clock—This's glory is to calm surrounding lights in a human fashion and bring truth to life."—Wind, see "XIV" used to help make this all world a happy place for all.
- 1.1 p.m.—BOBBY PEARCE, baritone.
"Lily of Laguna" (Stuart).
"Glow Worm" (Hayes).
- 1.15 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, New South Wales and South Australia. Prices received for Victoria, Tasmania, New South Wales and South Australia.
- 1.15 p.m.—STUDIO QUARTET:
"Fantasy Melodica" (Licht), 2.
- 1.25 p.m.—JOE BRENNAN and IDA NEWTON, comedians.
"Billy Blindoo," Selected.
- 1.35 p.m.—TAEMA TIERNAN, (sello).
"Carry Me back to Old Virginia."
- 1.40 p.m.—KATON TRIO.
"To Be a G. Major" (Hayes).
- 1.45 p.m.—BOBBY PEARCE, baritone.
"The Radio Song" (Hamer).
"We Had My Little Banjo."
- 1.45 p.m.—AGNES FORTNER (piano) and REGINALD BRADLEY (violin).
"Old Folks at Home" (Kreutzer).
- 2 p.m.—Close down.
- 2.15 p.m.—AFTERNOON SESSION.
- 2 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL.
- 2.15 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
"In an Oriental Garden" (Hayes).
"Meet Me in the Moonlight" (Davis).
"So Blue" (De Sylva).
- 2.18 p.m.—"AU FAIT"!
"Fashion Talk."
- 2.25 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
"Blue Sails" (Berlin).
"Dawn of To-morrow" (Greet).
"Blue Lee" (Ash).
- 2.35 p.m.—NORMAN HILL, comedian.
"My Invention, Kiddle."
"The Weck of the Raspberry Jam"
- 2.42 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
"Ain't She Sweet" (Yellen).
"Crash, Woops, Crazy Tans" (Yellow).
"There's a Trick in Pickin' a Chick, Chick, Chickin'" (Tobias).
- 2.52 p.m.—THE ROYAL SCOTS:
"Mammy's Little Sunny Honey Bun" (Calders's Story).
"Come where de Lilies"
- 2.55 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
"Love is Just a Little Bit of Heaven" (Hayan).
"She's Got It" (Davis).
"Stepping in Society" (Ahn).
- 2.57 p.m.—ANITA SHAWL, soloist.
"Because I Love You."
"That's a Good Girl."
- 2.59 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
"Windows, You-see, That's Who" (Oliver).
"You-see, You-see, You-see" (Hayan).
"Hidden Gals" (Lynch).
- 3.00 p.m.—NORMAN HILL, comedian.
"A Trifle Mixed."
"Maloney's Fenian Cat."



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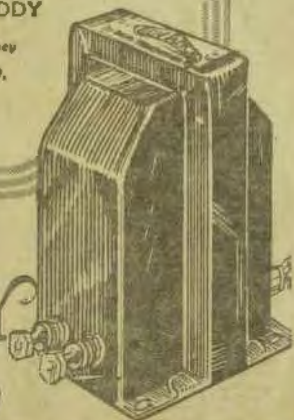
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ADVANCE

**AUDIO FREQUENCY
TRANSFORMER**



17/6

4.25 p.m.—**MATRON MORELAND:**

"Mozartiana."

4.45 p.m.—"Herald" News Service.

Stock Exchange information.

5 p.m.—Close down.

EARLY EVENING SESSION.

5.30 p.m.—Answers to letters and birthday greetings by "MARY GUMLEAF."

6 p.m.—**STUDIO QUARTET:**

"Henry VIII Dances."

6.7 p.m.—"MARY GUMLEAF" poems:

"The Only Pebble on the Sand."

"A Funny Football Match."

Story for the Littlest One:

"To Santa Claus."

6.17 p.m.—**STUDIO QUARTET:**

"Hallow's Chorus" from "The Flying Dutchman" (Wagner).

6.24 p.m.—**CAPTAIN DONALD MACLEAN:**

"Pirates and More Pirates."

6.40 p.m.—Official report of Newmarket stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Number of sheep drawn for week's sales.

6.46 p.m.—"Herald" news service. Weather synopsis. Shipping movements.

6.52 p.m.—Stock Exchange information.

6.57 p.m.—River reports.

6.59 p.m.—Fish market reports by J. R. Rowett, Ltd., Rabbit prices.

7.2 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.: Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruitgrowers' Association. Retail prices. Fruit market reports, wholesale prices by the Wholesale Fruit Merchants Association of Victoria. Ballarat sheep market reports.

EVENING SESSION.

7.15 p.m.—**MR. C. J. MILLER,** the Crown Champion of Victoria, will speak on the forthcoming International Championship Test Matches.

7.30 p.m.—Under the auspices of the UNIVERSITY EXTENSION BOARD, DR. C. H. McRAE, Secretary to the University Extension Board—Psychology, will speak on "Telepathy."

7.45 p.m.—**MR. E. M. PASCOE:**

"Boreas."

8 p.m.—**MR. T. M. BURKE** will speak on the Million Shilling Fund.

8.5 p.m.—**GRACE JACKSON:**

"Carrizinus" (Penn).

"Jeunesse" (Barry).

8.12 p.m.—**COBURN CITY BAND:**

March, "King of the Air" (Bennett).

Footrest, "Sam, the Old Accordion Man" (Donaldson).

March, "Eleonathra" (Rimmer).

8.22 p.m.—**JOE BRENNAN AND IDA NEWTON,** Comedians:

"Humoristics."

8.32 p.m.—**SCOTS CHURCH CHOIR:**

"The 8th Psalm" (Mendelssohn) as sung by the Choir at the Evening Service from Scots Church, Collins street.

CHOIR PRINCIPALS.

Miss Annie Caddell, soprano.

Kathleen Gregor Wood, contralto.

Mr. Culp Thomson, tenor.

Mr. Leslie Paul, bass.

Mr. Mungley Greer, Organist, and Director of Chorus.

1 Solo and Chorus, "O Come, Let Us Worship."

2 Solo and Chorus, "Come, Let Us Sing to the Lord."

3 Duet, "In His Hands Are All the Corners of the Earth."

4 Chorus with Solo, "For His is the Sea, and He Hath Fashioned It."

5 Solo and Chorus, "Lendetho When Ye Hear His Voice Entreatings, Turn Not Deaf Ears, Shew Not Hard Hearts."

6.7 p.m.—**COBURN CITY BAND:**

"Hymn to Music" (Rock).

8.15 p.m.—Announcements.

The Royal Automobile Club of Victoria's SAFETY MESSAGE for today is for PEDESTRIANS. "Train your eyes to see an accident before it happens."

Under the auspices of the HEALTH ASSOCIATION of Australasia the HEALTH

MESSAGE for today is: "From labor health, from health contentment spring" (James Beattie).

9.10 p.m.—**ONE-ACT PLAY:**

"April Fool," by Helen Armstrong. This play was second prize in the recent RLO One-Act Play Competition.

9.46 p.m.—**COBURN CITY BAND:**

"Woodland Blossoms" (Greenwood).

9.47 p.m.—**GRACE JACKSON,** contralto.

"Lord is My Light" (Allison).

"In a Heautontimor Garden" (Gleeson).

9.54 p.m.—**COBURN CITY BAND:**

Hawaiian Two-Step "Hilo"

Harping "Isolation," "The Merry Piper" (Campbell).

10 p.m.—**SENIA CHOSTIAKOFF,** tenor.

"It is Peaceful and Serene" (Gr. Bohm-Hooking).

10.07 p.m.—"A Night of Love" (Abta).

10.17 p.m.—Argus News Service. Meteorological information. British Official Wireless news. Sporting notes by "Dumpeu."

10.17 p.m.—**COBURN CITY BAND:**

March, "El Abasco" (Jacobs).

10.25 p.m.—**THE ROYAL SCOTS:**

"When You and I Were Young" (Butler-Field).

"Carry Me Back to Old Virginia" (Foster).

10.35 p.m.—**JOE ARONSON AND HIS SYNCO-SYMPHONISTS:**

"Whine will we meet again" (Florida).

"Jack in the Box" (Nichol).

"Blahnik" (Nichol).

10.43 p.m.—**SENIA CHOSTIAKOFF,** tenor.

"A Dream" (Bartlett).

"Oh, Beautiful Night" (A Russian folk song).

10.43 p.m.—**JOE ARONSON AND HIS SYNCO-SYMPHONISTS:**

"Marie Marie" (Brown).

"Just a Rose in Old Kilbarney" (Swan).

11 p.m.—**GURU GREAT THOUGHT:**

"Shows all arts great music is the art. To raise the soul above all earthly storms.

For in it lies that purest harmony. Which lifts us over self and up to God."

—Leyland.

Make Victoria More Musical—Subscribe to the million Shilling Fund.

11.1 p.m.—**JOE ARONSON AND HIS SYNCO-SYMPHONISTS:**

"Joking—You Wonderful Boy" (Meyer).

"I'm Going to Dance with the Guy Who Brings Me" (O'Keefe).

"I Ain't Got Nobody and Nobody Cares for Me" (Craham).

"The Little White House to Honeywood Lane" (Dowling).

"I Love the College Girls" (Jaffe).

"Classicans" (Lange).

"That Waltz of Yesterday" (Curtis).

"Take your Finger out your Mouth" (Yellman).

"Honolulu Song Bird" (Leslie).

"She Knows Her Onions" (Yellen).

"Killy Sanna Helly" (Czakow).

"Deed I Do" (Hirsch).

11.40 p.m.—**GOD SAVE THE KING.**

6WF, PERTH.

Tuesday.

10.45 a.m.—Tune in.

11 a.m.—Wool Sales Report.

12.30 p.m.—Tune in.

12.55 p.m.—Market, News, and Cables.

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

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

1.2 p.m.—Studio Instrumental Trio.

1.30 p.m.—Wool Sales Report.

1.35 p.m.—Tune in.

2.35 p.m.—Afternoon Tea Concert. Vocal and instrumental numbers from the Studio.

Organ selections, relayed from the Grand Theatre, Murray Street.

4.30 p.m.—Close down.

6 p.m.—Wool Sales Report.

6.45 p.m.—Tune in.

6.50 p.m.—Stories for the Tiny Tots, by Uncle Henry.

7.20 p.m.—Stocks, Markets, News.

7.45 p.m.—Talk: "Wireless Troubles," by Dr. Fixem.

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

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

ORCHESTRAL NIGHT.

8.1 p.m.—Concert by 4WF's Station Orchestra, conducted by Mr. Ronald G. Nayle, A.T.C.I.

Vocal selections, arias.

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

Shows within range announcement.

Weather Report and Forecast.

10.30 p.m.—Close down.

100 METRE TRANSMISSION.

Simultaneous broadcasts on 100 metres of musical programmes given on 1210 metres, commencing at 8 p.m.

7ZL, HOBART

Tuesday.

MORNING SESSION.—15 a.m. to 12 noon.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock Chimes.

2.1 p.m.—Tune in selection.

4.2 p.m.—Hobart Stock Exchange quotations.

Weather information.

Items of interest; Announcements.

4.35 p.m.—Orchestral selections by 7ZL Studio Trio.

4.15 p.m.—Cooking Talk, by "Regula."

4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—"Uncle Peter" talks to the children.

7 p.m.—"Uncle Peter's" Half-hour.

NIGHT SESSION.

7.30 p.m.—Musical selection.

7.55 p.m.—Literary Lapses and Library Lists, by Mr. W. E. Fuller.

7.50 p.m.—"Mercury" special Tasmanian news service.

Railway Auction Produce Sales.

Weather forecasts.

Hobart Stock Exchange quotations.

8 p.m.—G.P.O. Clock Chimes.

8.1 p.m.—Broadcast by direct wire from Imperial Hotel, Hobart.

Dance numbers by Mrs. Sheppard's Dance Trio, interspersed with items from the Studio by Mrs. Jack Green (soprano), Mr. G. Bescham (tenor), Mr. Thos. Spencer (baritone).

9 p.m.—Radio Question Corner, by "Annie."

9.40 p.m.—British Official Wireless News.

9.50 p.m.—"Mercury" special Interstate news service.

Ships within wireless range.

Weather reports.

9 a.m. Weather forecasts.

Station announcements.

National Anthem.

Wednes., Nov. 9

2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and programme announcements.

10.5 a.m.—Studio music.

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

10.40 a.m.—Studio music.

10.35 a.m.—A reading.

10.45 a.m.—Studio music.

11 a.m.—"Big Ben" Marching music for School Children.

11.5 a.m.—A.P.A. and Healer's Cables.

11.10 a.m.—Studio music.

11.15 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Forest.

11.30 a.m.—Close down.

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4RH5	4	25 amps.	£ 2 10 0
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6RH7	6	40 "	4 8 0

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2V.55



2V.57



2V.50



Type 4SR7



For Men Only.

The only certain way to induce every woman to read this column is to mark it, "For Men Only."

Curiosity is the only fly in the perfect amber of the feminine character. It turned Lot's wife into a pillar of salt, and if all the other wives in the world had been in the same neighbourhood at the same time there would have been a forest of salt pillars.

If I told my wife to-day that the Recording Angel had just paid me a visit, her first question would be inevitable: "What did she have on?"

Clothes are twin-sister of Curiosity, and no man understands either. Why, for instance, should a woman put snake skin on her shoes?—unless it goes back to the days of Eden and the prophecy that the seed of the woman should walk on the serpent's head.

Talking of the Garden of Eden reminds me that documents discussed in America prove that the Serpent beguiled Eve by suggesting that Apple Blossoms would suit her better than Fig Leaves.

When I asked my flapper daughter why she wanted crepe de chine nighties instead of good, plain, inexpensive cotton ones, she smiled indignantly, "Oh, Dad, suppose we had a fire!"

Last week I heard my wife praising the Philco radio battery to an afternoon tea party. I listened in, and what do you imagine I heard?

Best rechargeable battery in the world? Months without recharging. Finest long distance reception? Years of life!—not on your life! Here it is:

"My dears, you must all buy Philco. They're absolutely the loveliest things ever. You would just dote on the pretty glass fronts and the cute little indicators which drop when it's run down and hop up cheerfully when it's in good shape."

Glass fronts and cute little indicators! What a shock the New System folks will get when some society lady calls at 280 Castle-reach-street and asks for the pretty little glass battery with the indicators which hop up and down!

- 12 noon—"Big Ben" and announcements.
 12.5 p.m.—Stock Exchange, first call.
 1.5 p.m.—Official Weather Forecast: rainfall.
 1.55 p.m.—Studio Music.
 12.10 p.m.—Summary of "Sydney Morning Herald" news service. (Rugby Wireless) news.
 12.25 p.m.—Studio music.
 12.30 p.m.—Marching Music for School Children.
 12.40 p.m.—Eather Herford, soprano:
 "Weep" (Spaulk).
 12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO. (Leader, Mr. Horace Keats).
 12.55 p.m.—Studio Music.
 1 p.m.—"Big Ben." Weather still-forecast.
 1.5 p.m.—"Evening News" midday news service. Producers' Distributing Society's report.
 1.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 1.25 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching Music for School Children.
 1.40 p.m.—Eather Herford, soprano:
 "Yo San" (Woodforde-Hinden).
 1.45 p.m.—Studio Music.
 1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and programs announcements.
 2.5 p.m.—FROM THE LYRIC WINTER GARDEN THEATRE, George Street, Sydney.
 The Lyric Winter Garden Theatre Orchestra.
 2.30 p.m.—Marching Music for School Children.
 2.40 p.m.—From Farmer's Tea Rooms, Eibel Muller, contralto:
 "I Sometimes Wonder" (Hall).
 2.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO (Leader, Mr. Horace Keats).
 2.55 p.m.—From the Studio, Belle Sammons, mezzo:
 "Already is Ever Young" (Lionel Monckton).
 3 p.m.—"Big Ben." From Farmer's Tea Rooms.
 Angela Clancy, contralto.
 4.5 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 4.10 p.m.—A Talk by Madame Keebra Gieg, Interpreter and Teacher of Music.
 4.20 p.m.—From Farmer's Tea Rooms, Eibel Muller, contralto:
 "My Message" (D'Hardelet).
 4.25 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 4.35 p.m.—From the Studio, Fernia Rutter, soprano:
 "Daffodil Time" (Crittton).
 4.40 p.m.—From Farmer's Tea Rooms, Angela Clancy, contralto.
 4.45 p.m.—From the Studio, Stock Exchange third call.
 4.45 p.m.—Belle Sammons, mezzo:
 "The Pipes of Pan are Calling" (Monckton).
 4.50 p.m.—Studio music.
 4.54 p.m.—Fernia Rutter, soprano:
 "The Bells of Youth" (Fletcher).
 4.67 p.m.—Studio music.
 5 p.m.—"Big Ben." Close down.
- EARLY EVENING SESSION.
- 6.40 p.m.—The Chimes of 2FC.
 5.45 p.m.—The "Hello Man" Talks to the Children.
 6.15 p.m.—Uncle Ben and "Jerry" entertain.
 6.30 p.m.—Story time for the Young Folk.
 6.45 p.m.—Dinner Music.
 6.50 p.m.—Late sporting news.
 7 p.m.—"Big Ben." Daigerty's Market reports. (Wool, Wheat and Stock).
 7.5 p.m.—Fruit and Vegetable markets.
 7.10 p.m.—Weather and Shipping news.
 7.15 p.m.—"Twining News" late news service.

NIGHT SESSION.

- 7.30 p.m.—Programme announcements.
 7.35 p.m.—From the Studio, Susie new records.
 7.40 p.m.—Stanley Colman, and Les. Harris, Instrumental Duo, in a melody in which a number of various musical instruments will be employed.
 8 p.m.—"Big Ben." Mariel O'Malley, contralto:
 (a) "One Lone Star" (MacCann).
 (b) "Heartcase" (WHL/45).
 8.5 p.m.—Jack Lumsdaine, Entertainers Songs at the Piano.
 9.00 p.m.—Madame Emily Marks, soprano:
 (a) "Hocurra" (Michael Heald).
 (b) "Years Ago" (Strahl).
 9.27 p.m.—Stanley Colman and Les. Harris, Instrumental Duo.
 9.30 p.m.—Musiel O'Malley, contralto:
 (a) "When the Dream is There" (D'Hardelet).
 (b) "Soul of Mine" (Barner).
 9.40 p.m.—Jack Lumsdaine, Songs at the Piano.
 9.55 p.m.—Madame Emily Marks, soprano:
 (a) "The Sawing" (Bomberg).
 (b) "Buy My Rose" (Ganter).
 9.5 p.m.—Weather forecast.
 9.4 p.m.—From the Studio, Mr. Scott Alexander will present the famous Romantic Play by Edward Bulwer Lytton, revised and reconstructed for broadcasting by Coddington Hall, entitled:
 Act One—"THE LADY OF LYONS"
 The Play will be given in its entirety, and will be acted by Mr. Scott Alexander and Claude Melnitz, supported by a full Company of experienced radio artists.
 NOTE—During the interval between the Acts, Cec Morrison and His Dance Orchestra will play from the Studio.
 9.55 p.m.—Cec Morrison and His Dance Orchestra.
 9.40 p.m.—Act Two: "THE LADY OF LYONS."
 10.10 p.m.—Cec Morrison and His Dance Orchestra.
 10.15 p.m.—Act Three: "THE LADY OF LYONS."
 10.45 p.m.—Cec Morrison and His Dance Orchestra. Late Weather forecast.
 10.55 p.m.—Len Maurics, popular baritone.
 10.57 p.m.—Late news and announcements.
 11 p.m.—"Big Ben." Cec Morrison and His Dance Orchestra.
 11.10 p.m.—Len Maurics, popular baritone.
 11.15 p.m.—Cec Morrison and His Dance Orchestra.
 11.20 p.m.—National Anthem.
 Close down.

2BL, SYDNEY.

Wednesday.

EARLY MORNING SESSION.

7.0 a.m. to 8.0 a.m.

MORNING SESSION.

- 11.0 a.m.—G.P.O. Clock and Chimes; Musical Programme from Studio.
 11.35 a.m.—Talk on "Athletics," by Miss Gwen Varley, Broadcaster's Women's Sports Authority. Social Notes; Replies to Correspondents by Mrs. Jordan. Talk on "Dental Hygiene," by a member of the Dental Board.
 RACING INFORMATION Broadcast immediately after each Race by courtesy of the "Sun."
 12.0 noon.—G.P.O. Clock and Chimes; Special Ocean Forecast and Weather Report.
 12.3 p.m.—Musical Programme from the Studio.
 12.5 p.m.—Information; Mails, Shipping and Port Directory.

AFTERNOON SESSION.

12.11 p.m.—Bonds in Call by Wireless
 12.12 p.m.—Fruit Market Report.
 12.13 p.m.—Vegetable Market Report.
 12.17 p.m.—London Metal Market Report.
 12.19 p.m.—Dairy and Farm Produce Market Report.
 12.21 p.m.—Farago Market Report.
 12.24 p.m.—Fish Market Report.
 12.28 p.m.—Rabbit Market Report.
 12.31 p.m.—Stock Exchange Report.
 12.46 p.m.—R.M.V. Gramophone Recital from the Studio.
 1.1 p.m.—Stock Exchange Report.
 1.29 p.m.—G.P.O. Clock and Chimes. Talk to Children and Special Entertainment for Children in Hospital.
 2.0 p.m.—G.P.O. Clock and Chimes; Musical Programme from Studio.
 2.12 p.m.—Racing Resumes.
 2.16 p.m.—News from the "Sun."
 2.25 p.m.—Operatic Talk. "The Great Composer," by Mr. Saunders.
 3.0 p.m.—G.P.O. Clock and Chimes; News from the "Sun."
 3.10 p.m.—Musical Programme from the Studio.
 3.20 p.m.—News from the "Sun."
 3.30 p.m.—Musical Programme from the Studio.
 3.40 p.m.—Dunowen Dance Band, Broadcast from the Dunowen Clubroom.
 3.51 p.m.—G.P.O. Clock and Chimes; News from the "Sun."
 4.2 p.m.—Musical Programme from the Studio.
 4.15 p.m.—Serial Story.
 4.20 p.m.—Dunowen Dance Band.
 4.30 p.m.—News from the "Sun."
 4.35 p.m.—Resums of Night's Programme.
 4.47 p.m.—Racing Resumes.
 4.59 p.m.—Special Ocean Forecast.
 5.0 p.m.—G.P.O. Clock and Chimes; Close Down.

EARLY EVENING SESSION.

8.05 p.m.—G.P.O. Clock and Chimes; Children's Resumes.
 8.30 p.m.—Musical Programme from the Studio.

SPECIAL COUNTRY SESSION.

7.0 p.m.—G.P.O. Clock and Chimes; Australian Mercantile Land and Finance Co.'s Weekly Weather Report and Forecast, by courtesy of Government Meteorologist; Producers Distributing Society's Fruit and Vegetable Market Report; Stock Exchange Report; Grain and Fodder Report ("Sun"); Dairy Produce Report ("Sun"); N.B.M.A. Talk.
 7.15 p.m.—Country News from the "Sun."
 7.30 p.m.—Talk on "Tennis," by Dr. McElhannon.
 8.0 p.m.—G.P.O. Clock and Chimes; Broad-casters' Topical Chorus.
 8.3 p.m.—The Third of a Series of Organ Recitals by Mr. Fred Englem, transmitting from the Congregational Church, Newtown.
 8.25 p.m.—Tenor Songs by Professor Randall Woodhouse.
 8.3 p.m.—Selections by the Canterbury District Band, under the Direction of Band-master Stan Nicholls, broadcast from Baker's Hall, Cammerie.
 8.50 p.m.—Humour Presented by Mr. Harry Cash.
 9.0 p.m.—Weather Report and Forecast by courtesy of Mr. C. J. Mars, Government Meteorologist.
 9.15 p.m.—Resums of Following Day's Programme.
 9.0 p.m.—G.P.O. Clock and Chimes.
 9.1 p.m.—Humorous Songs by the Whispering Lady Quartet.
 9.3 p.m.—Broadcasters' All Sports Expert will Talk on "Boxing, Golf and General Sporting News."
 9.51 p.m.—Selections by the Canterbury District Band.
 10.0 p.m.—Mr. Harry Cash (Comedian), will entertain.
 10.0 p.m.—Professor Randall Woodhouse, Tenor.
 9.57 p.m.—The Whispering Lady Quartet.
 10.4 p.m.—James Music from the Bondi Casino. Between the Danes, News Items from "Sun," News Service.
 11.0 p.m.—G.P.O. Clock and Chimes; National Anthem.

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2GB, SYDNEY

Wednesday.

MORNING SESSION.

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

AFTERNOON SESSION

- 2.30 p.m.—Music.
2.37 p.m.—Address by Professor Ernest Wood.
2.52 p.m.—Music.
4 p.m.—Address.
4.15 p.m.—Music.
4.20 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Music.
7.8 p.m.—Address by Mr. S. Dobzyns.
7.15 p.m.—Music.
7.20 p.m.—Address by Mr. J. E. Powell.
7.40 p.m.—Music.
7.40 p.m.—Professor Ernest Wood.
7.55 p.m.—Songs by Miss Eva Croft:
(1) "The Pearl Cross" (Marshall).
(2) "The Dear Homeland" (Slaughter).
8.5 p.m.—Address by Mr. Harold Marton.
8.20 p.m.—Instrumental Trio.
MURIELLE LANG, ADA BROOK.
8.30 p.m.—2GB Vocal Quartette:
(1) "Sleep, Noble Heart."
(2) "Home, Dearie Home."
(3) "Ben Bolt."

ETHEL JONES, EVA CROFT, THOMAS HALL, CLEMENT HOSKING.

- 8.43 p.m.—Viola solo, DAN SCULLY:
(1) "Love Song" (Sammartini).
(2) "Gavotte" (Gossec).
8.45 p.m.—Songs by CLEMENT HOSKING:
(1) "Myself when Young" (Lehmann).
(2) "Sing, Break into Song" (Ballinson).
8.55 p.m.—Viola solo.
9 p.m.—Humorous sketch by Mr. Heath Burdock.
9.15 p.m.—Instrumental Trio:
DAN SCULLY, MURIELLE LANG, ADA BROOK.
9.25 p.m.—SBR Vocal Quartette:
(1) "Sally Homer."
(2) "By the Lowland Lea."
(3) "Silver Threads among the Gold."

ETHEL JONES, EVA CROFT, THOMAS HALL, CLEMENT HOSKING.

- 8.35 p.m.—Piano solos, ADA BROOK:
(1) "Foxy Schme" (Schumann).
(2) "Romance" (Schumann).
8.43 p.m.—Songs by Miss Ethel Jones:
(1) "The Land of the Skye Blue Water" (Caban).
(2) "The Wood Pigeon" (Lehmann).
9.10 p.m.—"Cheerio" Talk.
10 p.m.—Close down.

2 UW, SYDNEY

Wednesday.

- 9 a.m.—News, shipping, mail, studio items.
9.45 a.m.—Women's Session.
9.59 a.m.—Resume of forward programmes.
10 a.m.—Close down.
12.15 p.m.—Special Employees' Luncheon Session.
12.45 p.m.—Close down.
2 p.m.—Studio items.
2.50 p.m.—Resume of forward programmes.

- 2 p.m.—Close down.
5 p.m.—Studio items.
5.59 p.m.—Resume of forward items.
6 p.m.—Close down.
7 p.m.—Songs selection.
7.4 p.m.—Where to Go.
7.10 p.m.—Studio selection.
7.30 p.m.—Douglas Rae, tenor:
"Yes, Let Me like a Soldier Fall."
7.35 p.m.—Miss Mabel Ramsbotham:
Viola solo, Selected.
7.40 p.m.—Studio selection.
7.45 p.m.—Gordon James McDonald:
Jazz Interlude:
(a) "Black Bottom."
(b) "So Blue."
(c) "Slow River."
(d) "Everything's Peaches."
8 p.m.—A. D. Kay: "Individual Effort."
8.20 p.m.—Douglas Rae, tenor:
"Friend o' Mine" (Sanderson).
8.24 p.m.—Gordon James McDonald, Jazz pianist:
(a) "Doll Dance."
"Song of the Wanderer."
8.30 p.m.—Studio selection.
8.35 p.m.—Miss Mabel Ramsbotham:
Viola solo, Selected.
8.45 p.m.—Douglas Rae, tenor:
"I Heard You Go By" (Wood).
8.45 p.m.—Studio selections.
9 p.m.—Official news and weather forecast.
9.5 p.m.—Studio selections.
9.25 p.m.—Resume of forward programmes.
9.30 p.m.—"God Save the King."

3LO, MELBOURNE.

Wednesday.

MIDDAY SESSION.

- 11 noon—Melbourne Observatory time signal.
12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day.
British Official Wireless news from Rugby, Reuters's and The Australian Three Association Cables. "Argus" news service.
12.20 p.m.—THE ROYAL SCOTS:
"The Admiral's Broom" (Bevan).
"Mary of Arrie" (Chas. Jefferys).
12.30 p.m.—THE STUDIO QUARTETTE:
"Ailed National Airs."
12.40 p.m.—Stock Exchange information.
12.45 p.m.—STUDIO QUARTETTE:
"Sailors' Chorus from the Flying Dutchman" (Wagner).
12.50 p.m.—JOE BRENNAN and IDA NEWTON, comedians:
"The Plumber's Proposal."
1 p.m.—Melbourne Observatory Time Signal.
"Get busy—Lecture is pain—taken off our chariot wheels, and then how heavily we drag the load of life."—Do something for somebody, quick.
1.1 p.m.—DOROTHY ROXBURGH, violist:
"Allegretto" (Simsone44).
1.15 p.m.—Meteorological information.
Weather forecast for Victoria, Tasmania, South Australia and New South Wales.
Rainfall for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports.
1.15 p.m.—STUDIO QUARTETTE:
"Admirals All" (Borb).
"All About" (Fletcher).
1.22 p.m.—SANTA CHOSTAKOFF, tenor:
"By the Firsids" (Strak).
"Evening Bells" (Str. S. Jaroff).
1.20 p.m.—Official Opening of Ballarat Agricultural Show, Transmitted from the Show Grounds, Ballarat.
2 p.m.—Close down.
2.50 p.m.—Description of Haylea, 2 miles, 355 yards. SUNBURY RACES, by "Muckel," of "The Sporting Globe."
2.55 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—Melbourne Observatory time signal.
 2.1 p.m.—Description of Mason Plate 5 Furlongs, SUNBURY RACES, by "Musket," of "The Sporting Globe."
 2.3 p.m.—FIRE BRIGADE BAND:
 Selection, "Ballads Songs."
 2.17 p.m.—BOBBY PEARCE, baritone:
 "Heron of the Dardanelles" (Stoneham).
 "The Old Brigade" (Barrie).
 2.21 p.m.—JOE BRENNAN, in serious mood:
 "Ball Gales of Scaoters."
 2.23 p.m.—Description of Wether Plate, six Furlongs, SUNBURY RACES, by "Musket," of "The Sporting Globe."
 2.25 p.m.—FIRE BRIGADE BAND:
 March, "Royal Artillery."
 March, "The Victoria Return."
 2.33 p.m.—MR. J. HOWLETT ROSS:
 "The Sinking of the Emden."
 2.4 p.m.—Description of Sunbury Cup, one mile, SUNBURY RACES, by "Musket," of "The Sporting Globe."
 2.7 p.m.—FIRE BRIGADE BAND:
 Two sea songs, "The Midshipmate."
 "They all Love Jack."
 2.17 p.m.—SENIA CHOSTIAKOFF, tenor:
 "Snowflakes" (Verlanov).
 "When the stars are brightly shining," from "Tosca" (Puccini).
 2.24 p.m.—FIRE BRIGADE BAND:
 Fligel solo, "Lorette."
 Flautist, J. Bramwell.
 2.30 p.m.—Description of Wether Purse, six Furlongs, SUNBURY RACES, by "Musket," of "The Sporting Globe."
 2.33 p.m.—JOE BRENNAN:
 "Henry V.'s speech at Agincourt" (Shakespeare).
 2.42 p.m.—FIRE BRIGADE BAND:
 Waltz, "Banks."
 2.48 p.m.—"Herald" news service.
 Stock Exchange Information.
 2.5 p.m.—Description of Kismet Handicap, six Furlongs, SUNBURY RACES, by "Musket," of "The Sporting Globe."
 2.52 p.m.—Close down.

EARLY EVENING SESSION.

CHILDREN'S SESSION.

- 5.30 p.m.—Answers to Letters and Birthday Greetings by "MARY MARY."
 6 p.m.—STUDIO QUARTETTE:
 "Whims of Tipperary" (Amers).
 "All Aboard" (Fletcher).
 6.15 p.m.—"MARY MARY" will tell the children about the "Sinking of the Emden."
 6.25 p.m.—STUDIO QUARTETTE:
 Selection, "National Airs."
 6.32 p.m.—"MARY MARY":
 "The Flower Garden."
 6.40 p.m.—SAFETY MESSAGE: Children.—Many accidents are caused by sending the boy out to work and the girl out to play.
 SAFETY FIRST:
 "Herald" news service. Weather.
 6.41 p.m.—Stock Exchange reports.
 6.45 p.m.—Fish Market reports from J. R. Barrett, Ltd. Rabbit prices.
 6.52 p.m.—Market reports. Official reports of Newmarket Sheep sales by the Associated Stock and Station Agents, Bourke street, Melbourne. Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Fruit Market reports by the Wholesale Fruit Merchants' Association. Wholesale prices.

EVENING SESSION.

- 7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, Mr. R. CROWE, Acting Director of Agriculture, will speak on "Marketing Methods."
 7.30 p.m.—Under the auspices of the Institute of Engineers, Australia, Melbourne Division—COMMISSIONER R. H. HORSFIELD, M.L.C. Aust (State Rivers and Water Supply Commission) will speak on "The Water Supply of Victoria."
 7.45 p.m.—CAPTAIN C. H. PETERS:
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9 p.m.—MR. WESTON PETTY will speak a few words on the Million Shilling Fund.

9.5 p.m.—THE BALLARAT MALE HARMONISTS, transmission from the Coliseum, Ballarat.
Concerted Item, "My Motor Car" (Soprano).

THE COMPANY.
Tenor Solo, "Madalena" (James).

E. DAVE.
Humorous Sketch:
"The Lost Child" (Ballaran).

"Steal Away" (Humiley).
THE COMPANY.
Humorous Monologue.

"Reminiscences."
C. JOHNSTON.
Bass solo, "Hyacinth the Cretan."

STAKE JONES.
"The Reinstated Cook" (Scott Gatty).
"The Old Band"

THE COMPANY.
Tenor Solo, "I Hear You Calling Me" (Tait).

GOMAR THOMAS.
Humorous Sketch.
"Wire in My Larder" (Leigh).

JAS. H. DAVEY.
Baritone Solo.
"Prologue from 'Pagliacci'"

CEDRIC GOWER.
Baritone Solo.
"Jimmy Law" (Edward Parel).
JAS. H. DAVEY AND COMPANY.
At the Piano—CEDRIC GOWER.

9.20 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA, augmented by the BALLARAT LYRIC ORCHESTRA;
Overture, "Morning, Noon and Night in Vienna" (Suppe).

9.25 p.m.—MISS FLORENCE PRYOR, soprano.
"Lullaby" (Liszt).

"The Winds in the South To-day" (Scott).

9.35 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA, augmented by the BALLARAT LYRIC ORCHESTRA;
Selection, "Echoes of the Metropolitan Opera House" (arr. Tubani).

9.47 p.m.—MAVIS SVENSON, contralto:
"Waltz Maestri" (Hill).
"Lily's Epithet" (Hill).

9.54 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA, augmented by the BALLARAT LYRIC ORCHESTRA;
"On with the Show" (Nichols).
FROM THE STUDIO—

10 p.m.—"Argus" news service. Meteorological information. British official Wireless news from Rugby.
FROM BALLARAT—

9.22 p.m.—JOE ARONSON'S SYMPHONY ORCHESTRA, augmented by the BALLARAT LYRIC ORCHESTRA;
"On with the Show" (Nichols).
FROM THE STUDIO—

The Royal Automobile Club of Victoria's SAFETY MESSAGE for To-day is for EVERYBODY: "Many Accidents are caused by sending the body out to work and the mind out to play. SAFETY FIRST. OUR HEALTH MESSAGE is: "The labor we delight in physics pain" (Shakespeare).

9.58 p.m.—HAM JOHNSON'S MONTE CARLO ORCHESTRA:
"Anno Domini."
"Weeping Willows."

11 p.m.—OUR GREAT THOUGHT:
"Music is the most poetic, the most powerful, the most living of all arts. It ought to be the best, but it is not yet."
—Berlioz.
Make Victoria's Move Musical. Subscribers to the Million Shilling Fund.

11.1 p.m.—HAM JOHNSON'S MONTE CARLO ORCHESTRA:
"Falling in Love."
"Just Once Again."
"Wonder How I Look When I'm Asleep."
"Number Ten."
"What Does it Matter."
"Cater's Due at Two to Two."
"Under the Moon."

"You Should See My Toostie"
Waltz, "Perhaps You'll Think of Me."
"There Ain't No Maybe."
"Night Time is Love Time."
"Brown Sugar."

11.40 p.m.—GOD SAVE THE KING.

6WF, PERTH.

Wednesday.

12.50 p.m.—Tune in.
12.55 p.m.—Markets, News, and Cables.
1 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

A RELAYED CONCERT.

1.2 p.m.—Lunch-hour Concert, arranged by Messrs. Murgrove's Limited, relayed from Lyric House, Murray Street.
1.30 p.m.—Studio Quartette.
2 p.m.—Close down.
2.50 p.m.—Tune in.
2.55 p.m.—Orchestral music, played by Hoyt's Orchestra, conducted by Mr. Harold Partington, relayed from Hoyt's Regent Theatre, William Street.
Vocal and instrumental interludes from the Studio.
4.50 p.m.—Close down.
4.45 p.m.—Tune in.
4.50 p.m.—Stories for the Kiddies, by Auvie June.

7.30 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

A RELAY

8.5 p.m.—Old-time Minstrel Night, relayed from the Billy Edwards Music Warehouse, Murray Street.
Items by the Specialty Four:
Mr. David J. Lyle, lyric tenor.
Mr. Billy Edwards, songs at the piano.
Mr. Lionel Carter, bass.
Mr. Percy Hill, humorous entertainer.
Items by vocal assisting artists.
10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Coy.
Ehno within range announcement.
Weather Report and Forecast.
10.50 p.m.—Close down.

100 METRE TRANSMISSION.

Simultaneous Broadcasts on 100 Metres of Musical programmes given on 1250 Metres, commencing at 8 p.m.

Thurs., Nov. 10
2FC, SYDNEY

EARLY MORNING SESSION.
7 to 8 a.m.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.

- 10.35 a.m.—Last minute racing information by the IFC Commissionery.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben." Marching music for school children.
 11.3 a.m.—A.P.A. and Reuter's Cables.
 11.10 a.m.—Studio music.
 11.15 a.m.—A Reading.
 11.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben," and programme announcements.
 12.2 p.m.—Stock Exchange, first call.
 12.3 p.m.—Official weather forecast, rainfall.
 12.5 p.m.—Studio music.
 12.10 p.m.—Summary of "Sydney Morning Herald" news service, Rugby wireless news.
 12.35 p.m.—Studio music.
 12.50 p.m.—Marching music for school children.
 12.55 p.m.—Margaret Butterworth, Contralto: "Less than the Dust" (Frimont).
 12.55 p.m.—THE OAK HALL INSTRUMENTAL TRIO:
 12.55 p.m.—Studio music.
 1 p.m.—"Big Ben." Weather intelligence.
 1.1 p.m.—"Evening News" midday news service. Producers' Distributing Society's report.
 1.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 1.24 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching music for school children.
 1.40 p.m.—Margaret Butterworth, contralto: "I love the moon" (Rubens).
 1.45 p.m.—Studio music.
 1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 1.55 p.m.—Last minute sporting information by the IFC Commissionery.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and programme announcements.
 2.5 p.m.—From the Christ Church, St. Laurence, Sydney. An Organ recital by Mr. Christian Hellemann.
 2.5 p.m.—Organ:
 "Overture to Beethoven" (Wagner).
 "Meditation" (D'Evry).
 "Intermezzo" (Hellemann).
 "Scherzo in A Minor" (Hellemann).
 Mr. Christian Hellemann.
 3.40 p.m.—From Farmer's Tea Rooms—Mary Craven, mezzo:
 "Years Ago" (Brake).
 3.45 p.m.—From the Christ Church, St. Laurence:
 Organ recital by Mr. Christian Hellemann.
 Organ:
 "Sonata in F Minor" (Mendelssohn).
 Allegro Moderato, B. Adagio.
 Andante Recit. D. Allegro, Assai Vivace.
 4 p.m.—"Big Ben" From Farmer's Tea Rooms—Marie Bosley, soprano:
 "Rosenkranz" (L'Acid).
 4.5 p.m.—From the Christ Church, St. Laurence, Sydney: An organ recital by Mr. Christian Hellemann:
 "Grand Choeur" (Dubois).
 "Gentilens" (Dubois).
 "Grand Cortege" (Hellemann).
 4.50 p.m.—From Farmer's Tea Rooms—Mary Craven, mezzo:
 "I love you more" (Lee).
 4.55 p.m.—Clare Fothergill, dramatic soprano, TAL TRIO.
 4.55 p.m.—Clare Fothergill, dramatic soprano, from the Studio:
 "The Threshold" (Kewdney Russell).
 4.60 p.m.—From Farmer's Tea Rooms—Marie Bosley, soprano:



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3 H. & H. Pico-dial Sockets	9/-	1 500 Igratic Condenser	2/-
2 Geco Transformers	£3/19/-	1 Terminal Board, seven terminals, 2/0	
1 Panel 20 x 8 x 3/16, Radion	16/-	1 Terminal Board, two terminals, 2/0	
1 Geco 13 Plate Condenser	£1/7/-	1 Baseboard, 4-ply	2/6
1 Cutter Hammer Battery Switch, 3/6		15 Assorted Screws	6d.
1 Double Circuit Jack	2/2	1 400. Bamber Wire	30d.
1 Single Circuit Jack	1/7	1 Philips' D.E.V.	7/-
1 Electrical Condenser, with Clips, 1/0		1 Bradstake	£1/-
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1 4 Volt 50 Amp. Accumulator	2 10 0
Aerial Equipment	0 7 6
1 Amplion Loud Speaker	3 15 0

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3 400 Advance Little Centaligen Condensers	37/0	2 A.W.A. Super Audin Transformer	16/-
3 Pilot Vernier Dials	20/3	2 3/4-inch Lengths of 2-inch diameter Diecta or Radion Tapping	4/6
1 D.C. Jack	1/2	1 1 1/2-inch Length Diecta	1/-
1 S.C. Jack	3/3	3 ex. No. 24 D.C.C. Wire	3/6
1 Battery Switch	2/-	1 Terminal Board	2/3
4 30 ohms Rheostats	19/-		

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Degraeve Buildings, Degraeve
Street, Melbourne.

"Morning and you" (Ayward).
4.45 p.m.—From the Studio—Stock Exchange, third call.
4.57 p.m.—Clare Fothergill, dramatic soprano: "Let 'B' follow" (Gordon).
4.59 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2P.
5.45 p.m.—"Hello Man" (talk to the children).
6.30 p.m.—Story time for the young folk.
6.40 p.m.—Studio music.
6.55 p.m.—Lace, sporting news.
7 p.m.—Dakota's market reports (wool, wheat and stock).
7 p.m.—Fruit and vegetable markets.
7.19 p.m.—Weather and shipping news.
7.36 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.30 p.m.—Programme announcements.
7.35 p.m.—From the Studio—Jack Dunne, baritone.
"Night Nursery" (Arundale).
"Mountains O'Mourne" (Collison).
7.48 p.m.—A boyish interview.
8 p.m.—"Big Ben." From the Studio—The Bondi Beach Concert Band, conductor, Mr. G. Bignell:
March, "Pomp and Pageant" (Anderson).
Waltz, "September" (Morel).
8.10 p.m.—Gwen Silva, lyric soprano—makes her first broadcast appearance since returning from London:
(a) "Regnava nel" (Donizetti).
(b) "Silenzio" (Lucia di Lammermoor).
8.19 p.m.—The Bondi Beach Concert Band, Conductor, Mr. G. Bignell:
Selection, "Mirella" (Gounod).
8.33 p.m.—Madame Lilian Gibson, contralto:
(a) "Ah renal ni" (Bead).
(b) "Sappho's Farewell" (Gounod).
8.41 p.m.—Edna Brown, violinist:
"Romance" (D'Amico).
8.47 p.m.—The Bondi Beach Concert Band, Conductor, Mr. G. Bignell:
(a) "Moroccan Scottish Patrol" (Macbeth).
(b) Selection, "Gipsy Love" (Laba).
9.4 p.m.—Charles Lawrence, entertainer:
"Our Labour-saving Home" (Jackson).
6.10 p.m.—Gwen Silva, lyric soprano:
(a) "Lilacs" (Rachmaninoff).
(b) "The Island" (Rachmaninoff).
(c) "Night" (Rachmaninoff).
9.18 p.m.—The Bondi Beach Concert Band, Conductor, Mr. G. Bignell:
Fantasia, "Kensilworth" (Greenwood).
6.27 p.m.—Charles Lawrence, entertainer:
"Aisy's Pull of Tact" (Chester).
9.34 p.m.—Edna Brown, violinist:
(a) "Garden" (Monty).
(b) "Meditation" (Gürand).
9.43 p.m.—Madame Lilian Gibson, contralto:
(a) "Rondo Gavotte" (Mignon).
(b) "Gamin' thro' the Eye" (Old Scotch).
9.50 p.m.—The Bondi Beach Concert Band, Conductor, Mr. G. Bignell:
March, "The President" (German).
9.56 p.m.—Wally Baynes, comedian.

10.3 p.m.—From the Ambassadors, Sydney: The Ambassadors Dance Orchestra, under the direction of Mr. Al Hammett.
10.39 p.m.—Latest weather forecast.
10.51 p.m.—Wally Baynes, comedian.
10.49 p.m.—From the Ambassadors, Sydney: The Ambassadors Dance Orchestra.
10.59 p.m.—From the Studio: Jack Dunne, baritone:
(a) "Lane in Spain" (Lombardo).
(b) "Sing, Happy Birds" (Liddle).
10.57 p.m.—Late news and announcements.
11 p.m.—"Big Ben."
The Ambassadors Orchestra, Conductor, Mr. Al Hammett.
11.50 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

Thursday.

EARLY MORNING SESSION.

5 a.m. to 8 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. clock and chimes.
Musical programme from the Studio.
10.40 a.m.—News from the "Daily Telegraph Pictorial."
10.50 a.m.—Musical programme from the Studio.
11 a.m.—G.P.O. clock and chimes.
Announcements.
11.3 a.m.—Musical programme from the Studio.
11.15 a.m.—Social Notes. Replies to correspondents by Mrs. Inelau.
Talk on "Housing," by Mr. Program.
Talk on "Domestic Craft," by Miss Hoyle.
12 noon.—G.P.O. clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Musical programme from the Studio.
12.4 p.m.—Information. Mails, shipping and port directory.
12.11 p.m.—Boats in call by wireless.
12.13 p.m.—Fruit market report.
12.15 p.m.—Vegetable market report.
12.17 p.m.—London metal market report.
12.19 p.m.—Dairy farm produce market report.
12.22 p.m.—Foreage market report.
12.24 p.m.—Fisk market report.
12.26 p.m.—Rabbit market report.
12.28 p.m.—Stock Exchange report.
12.30 p.m.—H.M.V. gramophone record from the Studio.
1.27 p.m.—Stock Exchange report.
1.30 p.m.—G.P.O. clock and chimes.
Talk to children and special entertainments for children in hospital.
2 p.m.—G.P.O. clock and chimes.
Close down.

AFTERNOON SESSION.

Racing information broadcast immediately after each race, by courtesy of the "Sun."
2 p.m.—G.P.O. clock and chimes.
Musical programme from the Studio.
3.10 p.m.—Talk on "The Cannibals of Malasia," by Mr. Hans Kirk.
3.40 p.m.—Dungowan Dance Band, broadcast from the Dungowan Cabaret.
4 p.m.—G.P.O. clock and chimes.
News from the "Sun."
4.3 p.m.—Musical programme from the Studio.
4.15 p.m.—Serial story.
4.36 p.m.—Dungowan Dance Band.
4.40 p.m.—News from the "Sun."
4.56 p.m.—Resume of night's programme.
4.57 p.m.—Racing resume.
4.59 p.m.—Special ocean forecast.
5 p.m.—G.P.O. clock and chimes.
Close down.

EARLY EVENING SESSION.

6.45 p.m.—G.P.O. clock and chimes.
Children's Session.
6 p.m.—The songs of Miss Monica Scully will entertain the children.

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

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. clock and chimes.
Australian Mercantile, Land and Finance Co.'s report.
Weather report and forecast by courtesy of Government Meteorologist.
Producers' Distributing Society's fruit and vegetable market report.
Stock Exchange reports.
Cocoa and felder report ("Sun").
Daily produce report ("Sun").
Weekly traffic bulletin.
Talk on books.
- 8.15 p.m.—Country news from the "Sun."
- 8.20 p.m.—Helpful hints to listeners by Mr. Alan Burrows.
- 8.30 p.m.—Talk on "Centenary of death of William Blake" by Mr. Rupert Markham, H.E.
- 8.45 p.m.—Talk on "The Care of the Eyes," by Mr. Patterson.
- 9 p.m.—G.P.O. clock and chimes.
Broadcasters' Tropic Chorus.
An hour's programme presented by Home Recreations, Limited.
- 9.15 p.m.—Dance music played by the Salomola Dance Orchestra.
- 9.16 p.m.—Popular numbers by Miss Eily Dalgleish, soloist.
- 9.20 p.m.—The Salomola Dance Orchestra.
- 9.27 p.m.—Mr. Roger Jones, baritone.
- 9.34 p.m.—The Salomola Dance Orchestra.
- 9.44 p.m.—Miss Eily Dalgleish, soloist.
- 9.51 p.m.—The Salomola Dance Orchestra.
- 9.61 p.m.—Weather report and forecast, by courtesy of Mr. G. J. Mares, Government Meteorologist.
- 9.62 p.m.—Selections by the Marrickville Salvation Army Band (bandmaster, Mr. N. H. Twyford), broadcast from Wemyss-street, Marrickville.
- 9.68 p.m.—Mr. Bert Gilbert, comedian, will present another adventure of Mr. Himpstrolch.
- 9.87 p.m.—Further selections by the Marrickville Salvation Army Band.
- 9.97 p.m.—Resumes of following day's programmes.
- 10 p.m.—G.P.O. clock and chimes.
- 10.1 p.m.—Baritone songs by Mr. Roger Jones.
- 10.4 p.m.—"Sun" news service.
- 10.13 p.m.—Dance music by the Wentworth Symphony Orchestra broadcast from the ballroom of the Wentworth. Between the dances, news items from the "Sun" news service.
- 11 p.m.—G.P.O. clock and chimes.
National Anthem.
- 3LO, MELBOURNE**
- Thursday.
- MIDDAY SESSION.
- 12 noon.—Melbourne Observatory time signal.
Metal prices received by the Australian Mines and Metals Associations from the London Stock Exchange this day. Buxter's and the Australian Press Association Cables.
British Official Wireless news from Rugby. Agnes news service.
- 12.15 p.m.—COMMUNITY SINGING, from the Studio, conducted by MR. G. J. MAC-KAY, assisted by the STUDIO QUARTETTE (Conductor, REGINALD BRADLEY).
JOE BRENNAN, "Seven Ages of Man."

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IDA NEWTON: "Spectral"
SENIA CROSTIAKOFF.
"Song of the Volga Boatman."
"Arioso from Purcell."
1 p.m.—Melbourne Observatory time signal.
1.15 p.m.—COMMUNITY SINGING CON-
CERTED.

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

2 p.m.—Close down.

2.10 p.m.—Description of Trial Hurdle two miles, MORNINGTON RACES, by "Musket" of The Sporting Globe.

2.15 p.m.—Close down.

2.40 p.m.—Description of Handicap Maiden Plate, six furlongs, MORNINGTON RACES, by "Musket" of The Sporting Globe.

AFTERNOON SESSION.

3 p.m.—REV. KENNETH HENDERSON.
"Tables of the Week."

3.15 p.m.—Description of Mornington Handicap, 3/4 furlongs, MORNINGTON RACES, by "Musket" of The Sporting Globe.

3.20 p.m.—MR. WILLIAM G. JAMES will play the Students of—
"Music."

3.35 p.m.—MR. J. HOWLETT ROSS will say a few words on—
"Armistice Day."

3.45 p.m.—Description of Trial Handicap, six furlongs, MORNINGTON RACES, by "Musket" of The Sporting Globe.

3.59 p.m.—STUDIO QUARTET:
"Schura from Erving Quartet in E Minor," Op. 44, No. 3 (Mendelssohn).

4 p.m.—THE ROYAL SCOTS:
"Sound the Bells" (McLeod).
"My Ais Foll" (Lennox).
"I'm Ninety-three To-day."

4.10 p.m.—Description of Novice Handicap, 2 furlongs, MORNINGTON RACES, by "Musket" of The Sporting Globe.

4.15 p.m.—HAMILTON BATEMAN, violin.
Carrie Viennas (Kreutzer).

4.25 p.m.—STUDIO QUARTETTE—
"Canonetta from String Quartets in D Flat Major, Op. 12 (Mendelssohn)."

4.30 p.m.—Harold news service. Stock Exchange information.

4.45 p.m.—EVENSONG, transmitted from St. Paul's Cathedral.

5.00 p.m.—Acceptance for Saturday's races. Results of Welter Handicap, 7 furlongs, MORNINGTON RACES.

EARLY EVENING SESSION.

5.35 p.m.—Answers to letters and birthday greetings by "MARY GUMLEAF."

6.5 p.m.—RIEGL BRADSHAW:
"We'll play some more songs for the children."

6.12 p.m.—MISS M. SHEPHERD will tell a strange tale of the sea.

6.27 p.m.—ELSIE BRADSHAW:
Further songs.

6.34 p.m.—"MARY GUMLEAF":
More stories of Hawaii.

6.40 p.m.—Harold news service. Weather reports. Shipping movements.

6.47 p.m.—Stock Exchange reports.

6.52 p.m.—Fish Market reports by J. R. Forrest Ltd. Bullish prices.

6.56 p.m.—River reports.

6.58 p.m.—Market reports. Official reports of Newmarket stock sales by the Association Stock and Station Agents, Banker street, Melbourne. Poultry, Grain, Hay, Straw, Juice, Dairy Produce, Potatoes and Onions. Sale of reports of Fruit, by the Victorian Fruitgrowers' Association. Retail prices. Fruit market reports, wholesale prices, by the Wholesale Fruit Merchants' Association. Ballarat Fruit Market report, by the Ballarat Stock and Station Agents.

EVENING SESSION.

7.10 p.m.—MR. A. W. JACKSON:
"Gold."

7.30 p.m.—"China and its relation to Pacific Problems, Part 4," by an "Australian."

7.45 p.m.—A surprise talk from His Majesty's Theatre, Melbourne.

8 p.m.—MR. ROD MCGEEGOR will speak on:
"Cricket."

8.15 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Who" (Kern).
"Falling in Love" (Davis).
"Two Little Bluebirds" (Kern).

8.25 p.m.—GADY MAUDSLEY:
"The Million Shilling Fund."

8.35 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Mamma's Gave You" (Weston).
"That Certain Feeling" (O'Hagan).
"Because I Love You."

8.39 p.m.—JOE BRENNAN, comedian:
"Charlie, take it easy."

8.43 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Song of the Wanderer" (Moret).
"To-night You Belong to Me" (David).
"Doll Dances" (Brown).

8.53 p.m.—IDA NEWTON, comedienne:
"Little by little."

8.57 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Blue Skies" (Berlin).
"So Blue" (Henderson).
"Black Bottom" (Henderson).

9.1 p.m.—THE ROYAL SCOTS:
"A City of the Old Block" (Squire).

9.11 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Birth of the Blues" (Henderson).
"Charlie" (Goodman).
"Collette" (Banc).

9.21 p.m.—MR. G. N. S. CAMPSBELL:
"A few minutes on the War Memorial."

9.25 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"You don't like it not much" (Henderson).
"It all depends on you" (Henderson).
"Hollywood Wood" (Lawrence).

9.35 p.m.—ANTIA SLEWE, Scabrette:
"Are you sorry?"

9.39 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"No Foolin'" (Hanky).
"Sparish Town" (Banc).
"Telling the Birds" (Brown).

9.49 p.m.—JOE BRENNAN, comedian:
"Volla."

9.53 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Hole Dream Girl" (Low).
"While we danced" (Santley).
"Red Riding Hood" (Whitcomb).

10.3 p.m.—Argus News Service. Meteorological information. Sporting notes by "Olympus."

Island shipping information. Under the auspices of the HEALTH ASSOCIATION, the HEALTH MESSAGE for today is:

"Men in a good suit—stand straight!"
The Royal Automobile Club of Victoria's SAFETY MESSAGE for today is:

"Cross Country's Cantinero—compensation can never take the place of perfectly good limbs."

10.16 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Overbitch's Peachy" (Squire).
"Sandown" (Donaldson).
"Meadow Lark" (Keldal).

10.28 p.m.—IDA NEWTON, comedienne:
Selected.

10.32 p.m.—ERN SPRY AND HIS ORCHE-
TRA:
"Hans Accordian Man" (Donaldson).
"You See Sully" (Donaldson).
"He's the last word" (Donaldson).

10.43 p.m.—SENIA CROSTIAKOFF, soloist.
"The Star of the North" (Glinka).

- 10.44 p.m.—ERN SPRY AND HIS ORCHESTRA:
"Take in the Sun" (Woods).
Selected.
- 10.56 p.m.—SENIA GHOSTIAKOFF (soprano):
Kuminka Park Song (Svetlana Kahanov).
- 11 p.m.—OUR GREAT THOUGHT:
"Music is a necessity of life, we need it at home, in church, at any festival or ceremony, whether it be to express joy or grief, as well as in places of entertainment."
—Weekley.
- Make Victoria More Musical. Subscribes to the HILTON SILLING FUND.
- 11.1 p.m.—ERN SPRY AND HIS ORCHESTRA:
Selected.
- 11.40 p.m.—GOD SAVE THE KING.

Friday, Nov. 11 2FC, SYDNEY.

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

- 10 a.m.—"Big Ben" and programme announcements.
- 10.5 a.m.—Studio music.
- 10.10 a.m.—Last minute Sporting Information by the 2FC Racing Commissioner.
- 10.15 a.m.—"Sydney Morning Herald" news service.
- 10.30 a.m.—From the Cenotaph, Martin Place, Sydney
The Annual Commemoration of Armistice Day.
A description of the arrival of representatives of the Army, Navy and Air Forces, Reception of His Excellency, the Governor, speeches by His Excellency, the Governor, and the Hon. the Premier of New South Wales.
Description of the Crowds.
Two minutes' silence.
The Last Post.
Placing of the wreaths on the Cenotaph.
"God Save the King."
- 11.5 a.m.—From the Studio:
A.P.A. and Receiver's Cable Services.
- 11.10 a.m.—Studio music, appropriate to the day.
- 11.15 a.m.—A talk on Home Cooking and Recipes, by Miss Ruth Furst.
- 11.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben." Announcements.
- 12.3 p.m.—Stock Exchange, first call.
- 12.8 p.m.—Official weather forecast, rain/fall.
- 12.5 p.m.—Studio music.
- 12.10 p.m.—Summary of "Sydney Morning Herald" news service.
Rugby wireless news.
- 12.25 p.m.—Studio music.
- 12.30 p.m.—Marching music for school children.
- 12.40 p.m.—Genevieve Eppel, soprano:
"Kilbarney" (Walls).
- 12.45 p.m.—The Oak Hall Instrumental Trio.
- 12.55 p.m.—Studio music.
- 1 p.m.—"Big Ben." Weather Intelligence.
- 1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
- 1.30 p.m.—The Oak Hall Instrumental Trio.
- 1.33 p.m.—Stock Exchange, second call.
- 1.30 p.m.—Marching music for school children.

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October Issue of
RADIO
On Sale Everywhere

1.40 p.m.—Genevieve Eppel, soprano:
"Gone with My Mother Thought me" (Dvorak).
1.46 p.m.—Studio music.
1.56 p.m.—The Oak Hall Instrumental Trio.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.3 p.m.—A Recital by the pupils of Mr. Walter Thorman.
3.30 p.m.—Marching music for school children.
3.40 p.m.—From Farmer's Tea Rooms:
Florence Grant, soprano.
3.45 p.m.—The Oak Hall Instrumental Trio.
3.58 p.m.—From the Studio:
As from the Recital by Mr. Walter Thorman's pupils.
4 p.m.—From Farmer's Tea Rooms:
Neva Hallett, mezzo.
4.5 p.m.—The Oak Hall Instrumental Trio.
4.15 p.m.—From the Studio:
Lewin Berlek, baritone;
"Prelude" ("Pagliacci") (Loewevallo).
4.20 p.m.—From Farmer's Tea Rooms:
Florence Grant, soprano.
4.25 p.m.—The Oak Hall Instrumental Trio.
4.35 p.m.—From the Studio:
G. McNeilly, tenor.
4.40 p.m.—From Farmer's Tea Rooms:
Neva Hallett, mezzo.
4.45 p.m.—From the Studio:
Stock Exchange, third call.
4.47 p.m.—Lewin Berlek, baritone:
"For You Alone" (Gahl).
4.50 p.m.—Studio music.
4.54 p.m.—G. McNeilly, tenor.
4.57 p.m.—Studio music.
2 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the Children.
8.15 p.m.—Jessie Smith, contralto:
Songs for the little folk:
(a) "Daddy's Sweetheart"
(b) "Baby Coon, Good-night."
8.23 p.m.—Story time for the young folk.
8.40 p.m.—Studio music.
8.50 p.m.—Late sporting information by the JFC Racing Commissioner.
9 p.m.—"Big Ben."
Haleley's market reports (wool, wheat and stock).
9.4 p.m.—Fruit and vegetable markets.
9.16 p.m.—Weather and shipping news.
9.18 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.30 p.m.—Programme announcements.
7.35 p.m.—From the Studio:
Louise Homfrey, lady baritone:
(a) "That Just sets me out on the Day"
(Lupino).
(b) "Wonderful Eyes" (Redstone).
7.42 p.m.—A talk on Sport.
8 p.m.—"Big Ben."
Cyril Monk, violinist:
(a) "Fish Ale" (Hill).
(b) "Spanish Dance No. 8" (Saravate).
8.8 p.m.—Jessie Smith, 3LO contralto:
(a) "Gone with My Mother Thought Me"
(Dvorak).
(b) "The Early Morning" (Graham Peal).
8.18 p.m.—Win and Windle, English entertainers.

8.20 p.m.—Louise Homfrey, lady baritone:
(a) "Colonel B'owze-Browze" (Galsworthy).
(b) "Bill You Went Away" (Newell).
8.27 p.m.—Alfred O'Shea, Australia's Greatest Tenor.
8.38 p.m.—Win and Windle, English entertainers.
8.47 p.m.—Frank McEneaney, baritone:
(a) "Lemon" (Beaumont).
(b) "Ruling down to Rio" (German).
8.55 p.m.—Cyril Monk, violinist:
(a) "Song of the North" (Chamblaudel).
(b) "Nelson Bozmarin" (Krisler).
9.3 p.m.—Late weather forecast.
9.4 p.m.—A Theatre Transmission (by permission of Messrs. J. C. Williamson, Ltd.).
9.45 p.m.—From the Studio:
Frank Shmith, 4LO contralto:
(a) "None but the Weary Heart" (Toschakowsky).
(b) "The Owl" (Wells).
10.3 p.m.—Cec. Morrison and his Dance Orchestra.
10.10 p.m.—Alfred O'Shea, Australia's foremost tenor.
10.25 p.m.—Cec. Morrison and his Dance Orchestra.
10.35 p.m.—Frank McEneaney, baritone:
(a) "Drain Gage West" (Sanderson).
(b) "Devonshire Cream and Cider" (Sanderson).
10.38 p.m.—Late weather forecast.
10.39 p.m.—Cec. Morrison and his Dance Orchestra.
10.50 p.m.—Late news and announcements.
11 p.m.—"Big Ben."
Cec. Morrison and his Dance Orchestra.
11.10 p.m.—Len Maurice, baritone.
11.15 p.m.—Cec. Morrison and his Dance Orchestra.
11.18 p.m.—National Anthem.
Close down.

3LO, MELBOURNE

Friday

MORNING SESSION.

10.30 a.m.—Description of Activities Day Celebrations at the site of the National War Memorial, The Domain, St. Kilda road, Melbourne, by Mr. Norman McEwen.
11 a.m.—Two minutes silence.
11.4 a.m.—Laying the Foundation Stone of National War Memorial by His Excellency the State Governor, Lord Somers.
12.20 a.m.—Close down.
12 noon.—Melbourne Observatory Time Signal.
12.1 p.m.—Metal prices received by the Australasian Mines and Metals Association, from the London Stock Exchange this day.
British official wireless news from Banker, Kester's and the Australian Press Association Cables. News service.
12.20 p.m.—REGENT GRAND CONCERT ORCHESTRA:
ARMISTICE DAY at THE CENOTAPH, LONDON.
Incidental Music arranged by ERNEST G. MITCHELL.
10.45 p.m.—Chimes.
Approach of Bands.
11 a.m.—Big Ben Chimes.
Two Minutes Silence.
March Signal.
Reveille.
Hymn.
BAND.
"Pomp and Circumstance."

J. ALEXANDER BROWNE, baritone

"Lord of Hope and Glory."

RAND:

"Saver Medley"

Guard Marches Away.

12.45 p.m.—Stock Exchange Information.

1.00 p.m.—SENIA CHOSTIAKOFF, tenor

"Beautiful Eyes" (A Gypsy romance).

"Come Back to Sorrento" (Scenes from

Rome and Juliet, by F. Catter).

1.30 p.m.—REGENT GRAND CONCERT

ORCHESTRA:

"May Day Suite" (Travers).

1 p.m.—Melbourne Observers' Time Signal.

1.1 p.m.—J. ALEXANDER BROWNE:

"Ship."

"Finest Job of All."

MIDDAY SESSION.

1.0 p.m.—Meteorological information.

Weather synopsis for Victoria, South Aus-

tralia, Tasmania and New South Wales.

Dawn forecast. River reports for Victoria,

Tasmania, South Australia and New South

Wales.

1.15 p.m.—REGENT GRAND CONCERT

ORCHESTRA:

Patrol, "Woe McGregor" (Amers).

Patrol, "Blue Skies" (Berlin).

1.25 p.m.—SENIA CHOSTIAKOFF, tenor:

"The Red Scaffah" (a Russian Folk Song).

"A Bohemian Affair" (Hart).

1.30 p.m.—REGENT GRAND CONCERT

ORCHESTRA:

"Cello Solo by Kitty Anderson, "The Swan"

(Saint Saens).

1.35 p.m.—J. ALEXANDER BROWNE:

"The King."

"Australia, Oh, Thou Favored Isle."

1.45 p.m.—REGENT GRAND CONCERT

ORCHESTRA:

Attention: "Merry England" (German).

2 p.m.—Close down.

2.30 p.m.—Laying of Foundation Stone of

the Old Melbourne War Memorial Hall at

Melbourne Church of England Grammar

School, Melbourne.

A full description of this ceremony will be

given by Mr. Norman McChance.

During the afternoon results will be given

at intervals of the Public Schools Cricket

Match, Melbourne Grammar School v. Ge-

elong College at Melbourne Grammar School;

also Xatler College v. Geelong Grammar

School; and Scotch College v. Wesley

College.

AFTERNOON SESSION.

2 p.m.—STUDIO QUARTETTE:

Nautical Overture, "Britannia" (Mackenzie)

2.10 p.m.—MISS FRANCES FRASER:

"Westminster Abbey."

2.20 p.m.—ANITA SHAW, Soprano:

"Eternity."

"It's a Long Way to Tipperary."

2.30 p.m.—TASMA TIERNAN, "cello:

"On Wings of Song" (Mendelssohn).

2.40 p.m.—Marie Magan, soprano:

"The Devon Maid."

"The Infinite Shining Heavens."

2.45 p.m.—STUDIO QUARTETTE:

"Glimpses of London" (Lever).

2.57 p.m.—HAMILTON BATEMAN, violin:

"Hejse Kad" (Hilary).

"Mamma's Mamma" (Schubert-Kreidler).

3.4 p.m.—MARIE MAGAN, soprano:

"The Island."

"Painter and Painter in my Humble"

(Bramms).

4.12 p.m.—STUDIO QUARTETTE:

"Rhaps of Tipperary" (Amers).

"Jolly Sailor's A-Boo."

4.20 p.m.—JOE BRENNAN:

"The Bell Gates of Solomon."

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current which passes through the coils on the end of the magnet above it.

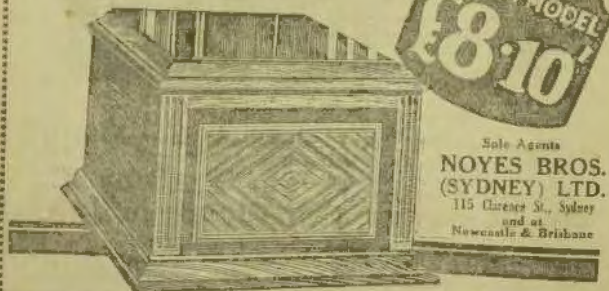
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Disc Model	£10/10/-	H4 Model	£27/-
Cabinet Model	£8/10/-	H3 Model	£4/3/6
H2 Model	£2/18/-	Sphinx Model	£16/16/-
H1 Model	£6/15/-	Q Model	£21/-
HQ Model	£7/15/-	A2 Type Headphones	£2/10/-
Crystavox	£7/15/-	F. Type Headphones	£1/7/6

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- 4.50 p.m.—MRS. M. CALLAWAY MAHOOD—
Personality in Art
"Hogman Hunt."
4.45 p.m.—"Herald" news service. Stock
Exchange information.
5 p.m.—Close down.

EARLY EVENING SESSION

- 6.30 p.m.—Answers to Letters and Bishop
Grafton by "BILLY BUNNY."
6 p.m.—STUDIO QUARTETTE
Selection: "Mama Ala" (Wood).
6.10 p.m.—"BILLY BUNNY":
"Sensible Day."
6.20 p.m.—STUDIO ORCHESTRA:
"National Airs."
6.25 p.m.—CAPTAIN DONALD MACLEAN:
"Dance of Daring."
6.40 p.m.—"Herald" news service. Weather
synopsis. Shipping movements.
6.47 p.m.—Stock Exchange information.
6.52 p.m.—Fish Market reports by J. R. Barr,
Gen. Ltd. Rabbit prices.
6.57 p.m.—River reports.
6.58 p.m.—Newmarket sheep sales by the Ass
sociated Stock and Station Agents, Bourke
street, Melbourne. Market reports by the
Victorian Producers' Co-operative Co. Ltd.,
Faulks, Grain, Hay, Straw, Jute, Dairy
Products, Potatoes and Onions.
7.12 p.m.—Market reports of Fruit for The
Victorian Producers' Association. Retail
prices. Fruit Market reports—Wholesale
prices by Wholesale Fruit Merchants' Association.
Ballarat Stock and Station Agents.

EVENING SESSION

- 7.15 p.m.—Under the auspices of the DE-
PARTMENT OF AGRICULTURE:
MR. R. J. HARRIS, Senior Potato Inspector,
will speak on:
"Spraying Potatoes."
7.30 p.m.—COLLINGWOOD CITIZENS'
BAND:
Overture: "Semiramide."
March: "The National Emblem."
7.40 p.m.—MR. H. K. LOVE:
"Technification."
Mr. Love will be glad to attend to your
Wireless difficulties, and we ask you to
write to him for any advice that you
may require.
7.50 p.m.—THE ROYAL SCOTS:
"Hill Cadetaria" (Ostelo).
"The Scottish Blue Bells" (Faulcher).
8 p.m.—Melbourne Observatory Time Signal.
8.1 p.m.—Sir Philip Gubb's DESCRIPTION OF
THE OPENING OF THE MEMORIAL
ARCH at BERRIN GATE, by Maurice Dudley
—Incidental music by the Collingwood Cit-
izens' Band.
8.16 p.m.—SENIA CROSTIAKOFF, (soprano).
"Song of the Volga Boatmen" (arr. Chailin-
pini).
Arioso from Pagliacci (Leoncavallo).
8.23 p.m.—COLLINGWOOD CITIZENS'
BAND:
Inter-meo: "White Lilies."
8.30 p.m.—Mr. E. LEB NEH, will speak a
few words on the Million Building Fund.
8.34 p.m.—COMMUNITY SINGING FROM
BALLARAT.
President: Cr. W. Elsworth.
Conductor: Mr. Bert Humphreys.
Acting Secretary: Mr. Frank Beaton.
March: "Bayswood" (Kimmer).
Selection: "Musical Review" by Ballarat
Soldiers and Sailors' Memorial Band.
Bandmaster: Mr. B. Stansmann.
Opening Remarks: His Worship the Mayor,
Cr. A. McKenna, chairman.
Chorus: "Drink to Me Only."
"Mellow Muck."
"Soldier's Farewell."

Mrs. E. Warrisco, soprano: Selected.
 Choruses: "Old Blues Australia."
 "Clemencia."
 "I Want to be Happy."
 Mr. A. Palmari:
 Selections on Musical Saw.
 Choruses by Girls' and Boys' Choir, of
 Ballarat:
 "How do you Do."
 "Old Folks at Home."
 Choruses: "Beautiful Ohio."
 "Land of Hope and Glory."
 "Glory Song."
 Miss Marie Swenson, contralto:
 "The Curtain Falls" (Guy D'Hardastot).
 "The Lovers and the Wind" (Franco
 Leon).
 Choruses:
 "Let the Best of the World Go By."
 "Some Folks Do."
 "Lost We Forget."
 Ballarat Soldiers and Sailors Memorial
 Band—
 Selection, "Diamond Cross" (Greenwood).
 Choruses:
 "Lindy Loo."
 "Oft in the Silly Night."
 "The Gwinn 'Back to Dixie."
 Mr. Jack Haynes, Violin Solos:
 "Berceuse de Jocelyn" (Godard).
 "Mazurka" (Wieniawski).
 Choruses by Girls and Boys' Choir of Bal-
 larat Orphanage:
 "On the Road to Anywhere."
 "I'm Going."
 Choruses:
 "More We are Together."
 "Mary Lou."
 "Pick Up Your Troubles."
 "When the Great Red Dawn."
 "Just a Wee Deoch and Dirie."
 AULD LANG SYNE.

10 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 Waltz: "The Maid of the Mountains."
 10.5 p.m.—MR. C. J. WILLIAMS will com-
 ment upon—
 "To-morrow's Stadium Event."
 10.17 p.m.—SENIA CHOSTIAKOFF, tenor:
 "Nostalgically Kings the Bell" (Liszt).
 "Down the Poltrovsky" (Russian Folk Song).
 10.24 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 Novelty, "The Ragtime Bass Player."
 Hymn: "Nearer, My God to Thee" (By
 request).
 10.30 p.m.—"CARDIGAN." Mr. H. A. Wolfe,
 Sporting Editor of the "Argus" and Aus-
 tralian, will speak on—
 To-morrow's Races.
 10.40 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "I Wonder Who's With You?" (Dixon).
 "This is June" (Leonard).
 10.45 p.m.—"Argus" news service. Metro-
 logical information. Road Notes, supplied
 by the Royal Automobile Club of Victoria.
 ROYAL AUTOMOBILE CLUB'S SAFETY
 MESSAGE for To-day is:
 "Cut out the cutting-in." Make Motoring
 a pleasure, not a peril. Safety First.
 Under the auspices of the Health Association
 of Australia, the HEALTH MESSAGE for
 To-day is:
 "The secret of good health is really no
 secret at all, being only the observance of
 a few simple rules."

Here is the popular
"PORTA"
 Self contained Radio Set



MUSIC in a Moment—just
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- 11 p.m.—OUR GREAT THOUGHT:
"Music in what books are not—a matter, mainly of public performance, which in turn is a matter of finance."
—Ernest Newman.
Make Victoria more Musical—Subscribe to the Million Shilling Fund.
- 11.1 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS:
"What Does it Matter?" (Berlin).
"The Deacon's Bride" (Mathieu).
"Everything is Made for Love" (Johnson).
"I Didn't Know" (Swift).
"Upright and Grand"—Piano Solo (Bloom).
"Muddy Water" (De Rose).
"Where the Love Bird Leaves the Nest" (Wade).
"By the Old Red Mill" (David).
"I'm On My Way Home" (Berlin).
"Looking for a Boy" (Gershwin).
"I Want to Go Home To-night" (Gilbert).
"Pleading" (Jones).
"Chinese Menu" (Nauhaum).
"She Don't Wanna" (Vellen).
"Because I Love You" (Berlin).
"For My Sweetheart" (Brown).
"Barbara" (Silver).
"One Night of Love in Spain" (Hayes).
"Brown Eyes in Your Dreams" (Tennent).
"Hello, Bluebird" (Friend).
"I've Got Somebody Now" (Williams).
"You Know I Love You" (Morse).
- 11.45 p.m.—GOD SAVE THE KING.

Saturday, Nov. 12 2FC, SYDNEY.

EARLY MORNING SESSION.—7 to 2 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and programme announcements.
- 10.5 a.m.—Studio music.
- 10.15 a.m.—"Sydney Morning Herald" news service.
- 10.50 a.m.—Studio music.
- 10.25 a.m.—A talk by the 2FC Racing Commissioner.
- 10.45 a.m.—Studio music.
- 11 a.m.—"Big Ben." Studio music.
- 11.5 a.m.—A.P.A. and Renter's Cable Services.
- 11.10 a.m.—Studio music.
- 11.15 a.m.—A talk on Gardening, by Mr. G. J. Leckley ("Redgum").
- 11.30 a.m.—Class down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and programme announcements.
- 12.2 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Studio music.
- 12.50 p.m.—"Sydney Morning Herald" news service.
- 12.52 p.m.—Rugby wireless news.
- 12.55 p.m.—Studio music.
- NOTE: Direct from the Course: The Canterbury Park Racing Events will be described in the running by the 2FC Racing Commissioner.
- 1 p.m.—"Big Ben." Weather intelligence.
- 1.5 p.m.—"Evening News" midday news service.
- 1.55 p.m.—Studio music.

NOTE: During racing intervals the following musical items will be given:
From the Crystal Palace Theatre, George Street, Sydney:

Jim Elkins' Jazz Band, with the Grand Organ.
 From the Studio:
 Cliff Arnold, novelty pianist.
 Dorothy Dewar, songs at the piano.
 4.30 p.m.—Complete resume of to-day's sporting events.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION

5.40 p.m.—The Chimes of 7PC.
 6.45 p.m.—The "Hello Man" talks to the children.
 7.30 p.m.—Story time for the young folk.
 8.00 p.m.—Stidie music.
 8.30 p.m.—"Big Ben." Weather intelligence.
 8.30 p.m.—Evening News' late news service.

NIGHT SESSION.

7.45 p.m.—Programme announcements.
 7.55 p.m.—Dittie by Mr. S. H. Bourden on How to See a Picture.
 7.45 p.m.—Sid Montigue, ukulele.
 8.21 p.m.—From the Railway and Tramway Institute, Sydney:
 Items from the Third Annual Eksteddfod. As this is the final night an opportunity will be given of hearing finalists in the Choral Section, which will include: Male Choruses, Mixed Chorus, Male, Mixed and Harmonic Quartettes.
 Finalists in the Vocal Section, including songs by Australian composers: Sacred Solo Male, Mixed and Ladies' Duet.
 Finalists in the Chappell "Song Competition."

Finalists in the Pianoforte Section.
 Finalists in the Eloquentia Section.
 Wind instrument finalists will be heard in the following:
 Cornet.
 Euphonium.
 Tenor Horn.
 Trombone.
 Brass Quartette.

Finalists in the "Boomerang" Mouth Organ Competition.

8.10 p.m.—From the Studio:
 Rex Garing and his "Sparklers" in their monthly programme:
 Introduction, "How do you do?" The Company.

Mr. Brunton Gibb seeks "revenge."
 Ernest Archer, tenor:
 "Beneath Thy Window."
 Sid Montigue, ukulele.
 Dorothy Dewar, soprano:
 "The Bird on Nellie's Hat."
 The "Sparklers" invite listeners to fox trot.
 Wilfred Thomas, bass:
 "Holding down to Rio" (German).
 Charles Lawrence, entertainer:
 Sparkling humor.

Peggy Dunbar, contralto:
 "Summer Night" (Thomas).
 Dorothy Dewar, soprano, and Mr. Rex Garing in a sketch:
 "Behind the Scene."
 Time for another dance.

Brunton Gibb, eleventhist:
 "Pigeons Himself."

Ernest Archer, tenor:
 "Little Green Balcony."
 "Jerry" joins the Jesters.
 Dorothy Dewar, soprano:
 "Following Along."

A dance number.

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8/10/27.

Dear Sirs,

Since my father wrote to you on May 23rd, I have had further success with my 5 valve Super Neutrodyne. My complete list of stations logged is now as follows:—

N.S.W.:—2BL, 2FC, 2GB, 2KY, 2UE, 2UW, 2BE, 2BI, 2GQ, 2PS, 2ME, 2WO, 2KO, 2QJ, 2BA, 2GU, 2DI, 2QA, 2QC, 2QD, 2DU, 2GO, 2QB.

VIC.:—3LO, 3AR, 3DB, 3BY, 3SW, 3RS, 3KR, 3LG, 3PF, 3FA, 3BU, 3CB, 3UZ, 3AM.

Q'LAND:—4QG.

E. AUST.:—5CL, 5DN, 5KA.

TAS.:—7ZL, 7UX, 7LA.

N.Z.:—1YA, 2YA, 3YA, 4YA.

FOREIGN:—JOAK, EZRM.

All these 50 stations were received at loud speaker strength with a single exception. My receiver works almost as well with a frame aerial as with an outdoor one. I have received 42 stations, including some in New Zealand and Tasmania, using a frame aerial, and 19 stations, including 1YA and 2YA, were heard on the loud speaker without aerial or earth.

All the above stations were logged using 5 ordinary UX201A Valves.

Yours faithfully,

(Signed) A. NICHOLSON.

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ivity!
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100 Degrees
50 Stations

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Wilfrid Thomas, tenor:
"The Floral Dance" (Moss).
Some more "Sparks," by Charles Lawrence.
Peggy Dunbar, contralto:
"At Dawning" (Caldwell).
The "Sparklers":
"A-aching we will go" and that's all.
10.40 p.m.—From the Ambassadors!
The Ambassadors Dance Orchestra, conducted by Mr. Al Hammett, will play until 11.45 p.m., interspersed with musical items from the Studio.
10.57 p.m.—Late news.
11.45 p.m.—National Anthem.
Close down.

1.45 p.m.—STUDIO ORCHESTRA:
Waltz, "Mercedes"
1.45 p.m.—BOBBY PEARCE, baritone:
"Stone-cracker John" (Costa).
"The Englishman" (Blockley).
1.52 p.m.—JOHNSON'S STUDIO BOYS:
Novelty, "Slidra" thro the Rye.
3 p.m.—Description of Cricket Match—Carlton v. St. Kilda, at Carlton, by Mr. Rod McGeevor.
2.10 p.m.—Close down.
2.30 p.m.—Description of Stansmore Two Year Old, 6 furlongs, V.A.T.C., CAULFIELD, by "Newbury," of the "Argus."
2.45 p.m.—Close down.

Associated Stock and Station Agents, Bourke street, Melbourne. Market reports by the Victorian Producers' Co. Ltd., Poultry, fruit, straw, fish, dairy produce, potatoes and unions.
7.10 p.m.—Market reports of fruit by the Victorian Fruit-growers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association.

EVENING SESSION.

7.15 p.m.—Mr. H. E. F. LARPK, The history of Pinckney's "Galle's Pendulum."
"The First Hair-Spring."
7.50 p.m.—Mr. F. CHAPMAN, National Museum:
"From the Rangoon to the Sea."
7.50 p.m.—Mr. CLARENCE WEBBER:
"Health Talk."
8 p.m.—HAWTHORN CITY BAND:
Selection, "Chorister's Waltz" (Phipps).
8.30 p.m.—HARMONIST MALE QUARTET:
"Drink to me only with thine own."
"So some lass she smil'd" (Morley).
8.37 p.m.—HAWTHORN CITY BAND:
Selection, "La Coquette" (Lemond).
8.57 p.m.—JAMES FRASER:
"When the Sergeant-Major's on Parade" (Donstaffe).
TOM MASTERS and HORACE WHITE:
"Who is Sylvia" (Schubert).
8.34 p.m.—HAWTHORN CITY BAND:
Fantasia, "Helsinki Glö" (Balle).
8.45 p.m.—A special programme has been arranged.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

11 p.m.—JOHNSON'S STUDIO BOYS:
Selection, "The Yeoman of the Guard."
11.10 a.m.—ANITA SHAWE, Comedienne:
"Some Day You'll Say O.K."
"Constitution."
11.17 a.m.—JOHNSTONE'S STUDIO BOYS:
Comed. Duet, "Forest Warblers."
Soloist, W. Huncy, L. Barrett.
Fox Trot, "A Lane in Spain."
11.27 a.m.—HAMILTON BATEMAN, violina:
"Liebesfreund" (Kreiser).
"Ave Maria" (Schubert).
11.54 a.m.—THE ROYAL SCOTS:
"We a' go hame the same way" (Lauder).
"Gungarry" (Walker).
11.45 p.m.—JOHNSON'S STUDIO BOYS:
Selection, "Il Trovatore."

MIDDAY SESSION.

12 noon—Melbourne Observatory time signal.
Metal prices received by The Australian Mines and Metals Association, from the London Stock Exchange this day. British official wireless news from Rossby, Reuters and The Australian Press Association cables.
"Argus" news service.
12.30 p.m.—STUDIO QUARTETTE:
Selection from "The Beggar's Opera."
12.36 p.m.—SENIA CHOSTAKOFF, tenor:
"A Dream" (Quartets).
"A Beautiful Night" (Russett Folk Song).
12.37 p.m.—Stock Exchange information.
12.40 p.m.—JOHNSON'S STUDIO BOYS:
Glee, "Solennele."
March, "Handel Wakes."
12.53 p.m.—JOE BRENNAN AND IDA NEWTON:
"In Comedy Veil."
1 p.m.—Melbourne Observatory Time Signal.
1.1 p.m.—STUDIO QUARTETTE:
"Danny Boy."
1.3 p.m.—Meteorological information. Shipping information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports for Victoria, Tasmania, South Australia and New South Wales.
1.15 p.m.—BOBBY PEARCE, baritone:
"The Skipper" (Jude).
"Harlequin" (Sanderson).
1.25 p.m.—JOHNSON'S STUDIO BOYS:
Waltz, "Lipsban."
1.30 p.m.—Description of Kasaska Hardie, 2 miles 68 yards, V.A.T.C., CAULFIELD, by "Newbury," of the "Argus."
1.35 p.m.—JOE BRENNAN AND IDA NEWTON:
"Mrs. Clark."

AFTERNOON SESSION.

2 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS:
"The Toy Town Parade" (Morellet).
3.5 p.m.—Description of the Armatada Race-day, 1 mile 3 furlongs, V.A.T.C., CAULFIELD, by "Newbury," of the "Argus."
3.40 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS:
"Just Once Again" (Ash).
"Holding Down the Rio" (King).
"When Lights are Low in Cairo" (Merle).
3.50 p.m.—Description of Cricket Match, Carlton v. St. Kilda, at Carlton, by Mr. Rod McGeevor.
3.40 p.m.—Description of Tara Staphelane, about 2 miles, V.A.T.C., CAULFIELD, by "Newbury," of the "Argus."
3.45 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS:
"Beneath Venetian Skies" (Lewis).
"Yah Goma Be Home To-night" (Dubin).
"In 'Talia' the Birds, 'Talia' the Bees" (Brown).
"The Spell of the Moon" (Kahn).
"Sa-Lu-Tu" (Kahn).
"The Hanging Gardens of Babylon" (Carlo).
"Collects" (Gaid).
"Hawaii Moon" (Lawrence).
"Rhythm is the Thing" (Bain).
"Goblet Gate" (Leslie).
"Ziz Zag"—Piano Solo (Bloom).
4.15 p.m.—Description of Ormond Stakes, 1 mile, V.A.T.C., CAULFIELD, by "Newbury," of the "Argus."
4.20 p.m.—Description of Cricket Match—Carlton v. St. Kilda, at Carlton, by Mr. Rod McGeevor.
4.30 p.m.—"Kerald" news service. Book Exchange information.
4.50 p.m.—Description of Roxton Plate, 5 furlongs, V.A.T.C., CAULFIELD, by "Newbury," of the "Argus."
5 p.m.—Close down.

During the afternoon the results of the Morning Races will be given at intervals.

EARLY EVENING SESSION.

5.30 p.m.—Sporting results.
5.40 p.m.—Answers to letters and birthday greetings, by "LITTLE MISS HOOKABURR."
6.10 p.m.—STUDIO QUARTETTE:
"Three Scottish Symphonic Dances" (Wright).
6.20 p.m.—CAPT. DONALD MACLEAN:
"Pirates and more Pirates."
5.40 p.m.—Herald news service. Weather reports. Shipping movements.
6.42 p.m.—Stock Exchange information.
6.47 p.m.—Market reports.
6.50 p.m.—River reports.
6.52 p.m.—Newmarket sheep sales by the

"Swing along sis" (Koppit).
"Home! I want you now" (Coe).
10.47 p.m.—JOE BRENNAN AND IDA NEWTON, comedienne:
"The Fireman."
10.45 p.m.—Late sporting news. The Royal Automobile Club of Victoria's Safety Message for today is for EVERYBODY. "Be who laughs last must believe in Safety First."
Under the auspices of the Health Association of Australia, the Health Message for today is: "Do not die your grave with your knife and fork."
11 p.m.—OUR GREAT THOUGHT for today is:
"Feeling is the eye of Passion. Poetry is the voice of Passion. Music is the throbbing of her heart."—Francis Thompson.
Make Victoria more Musical, subscribe to the Milton Shilling Fund.
11.5 p.m.—JOE ARONSON AND HIS SYNCO-PATING SYMPHONISTS.
11.40 p.m.—GOD SAVE THE KING.

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All Readers' Queries Answered Here.

L.A.S. (ORANGE).—Q. 1: For the Markness Muller which is the most suitable valve, a UX20A or a UX19B?

A. Kilder.

Q. 2: Could a power valve be used?

A. It is not advisable.

Q. 3: Would A.W.W. transformer be suitable?

A.: Yes, any good transformer would be suitable.

Q. 4: If I used two .26 valves, would I be able to use two pairs of phones from B batteries?

A.: I can't quite understand this question, but in any case you should be able to use two pairs of headphones.

R.W.B. (WESTMEAD).—Please supply me with a simple efficient one-valve circuit, to receive Sydney broadcasting stations.

A.: See "W.W." 1/7/27, for the Extraordinary One Valve.

Y.E.D. (NEWCASTLE).—Q. 1: Would you please tell me the particulars of how to make autotransformers for the neodydium?

A.: The secondary winding consists of 65 turns of No. 24 gauge wire, wound on a 3-in. former and tapped at the 15th turn from the end, for neutralising purposes. The primary wire would be from 5 to 7 turns of the same gauge wire wound on 2½-in. former, and fitted inside the secondary coil at the neutralising tapping end. The coils should be spaced at least 1-in. apart and at an angle of approx. 54 degrees.

Q. 2: Is the ordinary house series of electricity direct or alternating current?

A.: In the suburbs it is alternating current. The rest of your queries will be answered by the above-mentioned people, whose advice you can rely on.

J.P.H. (MEGAN).—Q.: Could you tell me what is wrong with my radio set, a 5 valve set? During a thunderstorm one recent afternoon I endeavored to pick up the race results from 3BL, there was lightning at the time, and owing to severe static had to give up hope. At night time I went to my set again, expecting to have no trouble in tuning in, but failed to pick up any stations. I might state that my valves and batteries are O.K.

A.: Anything may have happened. Perhaps the contacts of your lightning arrester have been shorted, or possibly the lead-in wire has parted inside the insulated covering. Write to the agents for your receiver if these suggestions do not help.

NENAM (ASHFIELD).—Q.: As we are amateurs with wireless and take the "Wireless Weekly," could you give me the dialing of a Stewardyne 6 valve set for 3L0, Melbourne, or tell me how I could get it as I would like to hear the Melbourne Cup?

A.: I am sorry I can't. I don't even know your make of receiver. Why not write the people you bought it from. They should be able to give you a rough idea. But can you get Melbourne at night time? If so, the same settings will apply in day time; if not, then give up hope of day-time reception of 3L0.

May I suggest that the Sydney stations will give you the Melbourne Cup result just as quickly as the Melbourne station.

F.A.T. (TAREE).—Q.: Am I correct in assuming:

(1) That a rheostat does not save battery?

(2) That it is sufficient simply to disconnect the negative terminals of the A and B batteries in order to prevent leakage although the switch or rheostat is turned off?

A.: Yes and no. A rheostat turned on to the full will not save A battery, as the valve used will insist on being fed up to its maximum. So you can see that if the rheostat is only two-thirds of the way on to supply the valve with its maximum current a certain saving is effected.

A.: If you have a good switch (it really isn't necessary).

HODD (MULLALEY).—Q.: I have a 5 valve Neodydium, can you please tell me why the following occurs: My valves (as far as I know) are quite O.K. but when I put a new valve in, in any stage, it does not give as good results as the one previously removed. I have to advance my H.F. rheostat as much as 20 degrees to receive?

A.: You haven't given me sufficient particulars to judge and help you out of your troubles. Valves today vary greatly in their characteristics and must be selected accordingly. Write again telling me of the make and the number of the valves you are using; tell me more.

J.C.M. (CARRATHOOL).—Q.: The Super-Heterodyne I built a few weeks ago is causing a rushing sound when tuned to any station. This sound spoils the signals to a large extent, and consequently daylight reception is almost impossible. Night reception is also spoiled by this rushing sound. Would a fixed condenser stop this? If so, where should it be placed, please?

A.: Install 2 mfd. condensers across each tapping of the B battery. Perhaps your oscillator requires adjusting, or, if there is regeneration in your receiver, you are using too much feedback.



EIGHT "LOTUS" Valve Holders fitted with large power valves and fixed to tailboard of Ford Motor Lorry, driven over rough roads for 30 miles, survived the test.

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