WIRELESS WEEKLY

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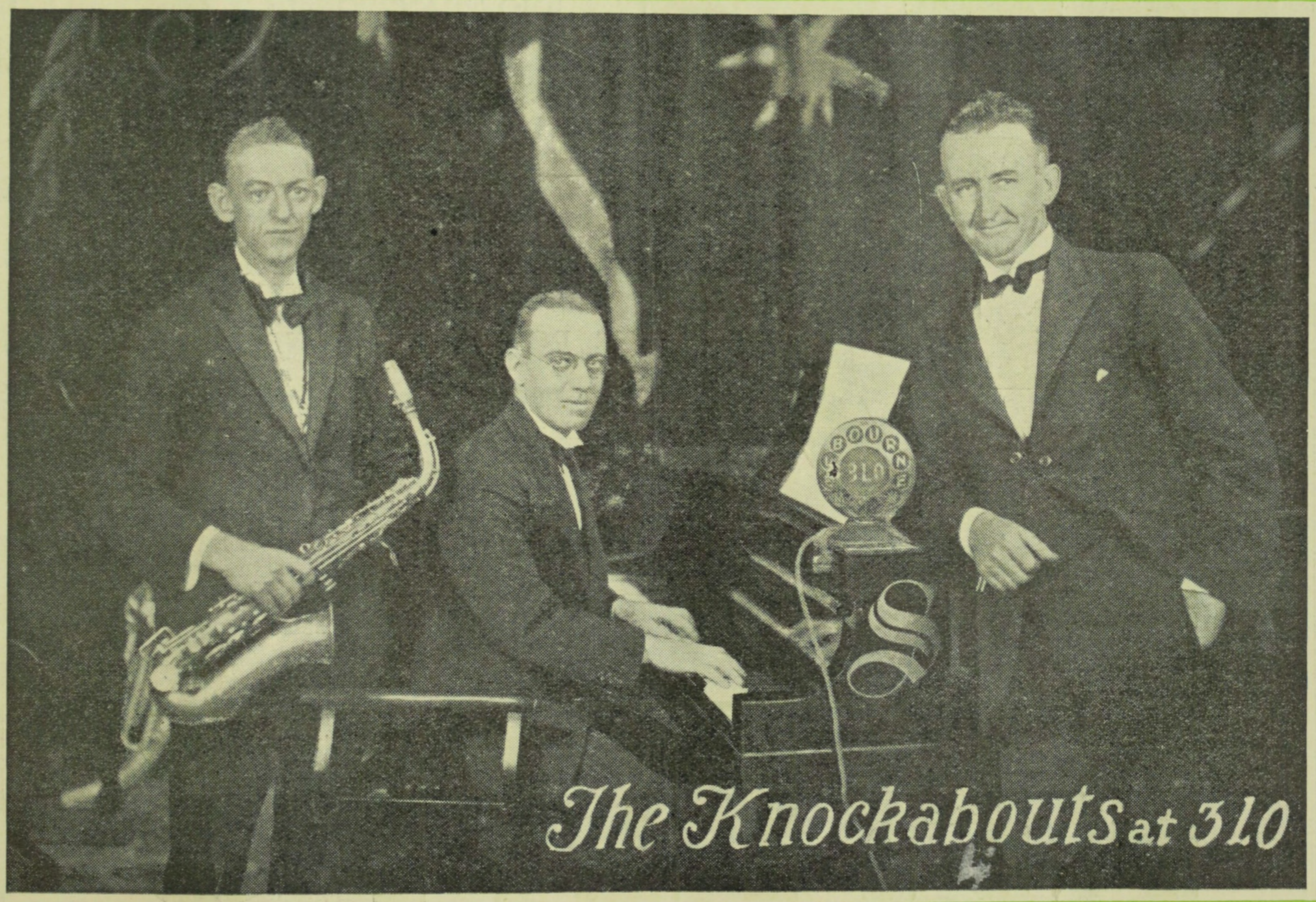
SYDNEY

Broadcast Programmes a Week in advance

VOLUME 11

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

NUMBER 25



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Friday, April 13, 1928

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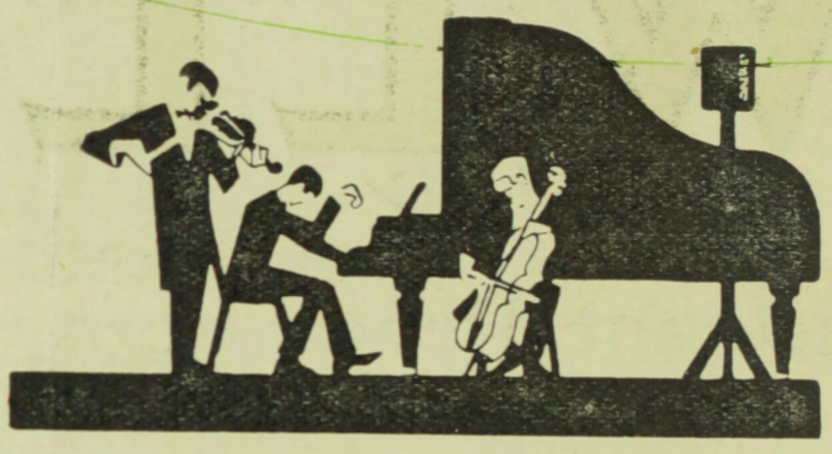

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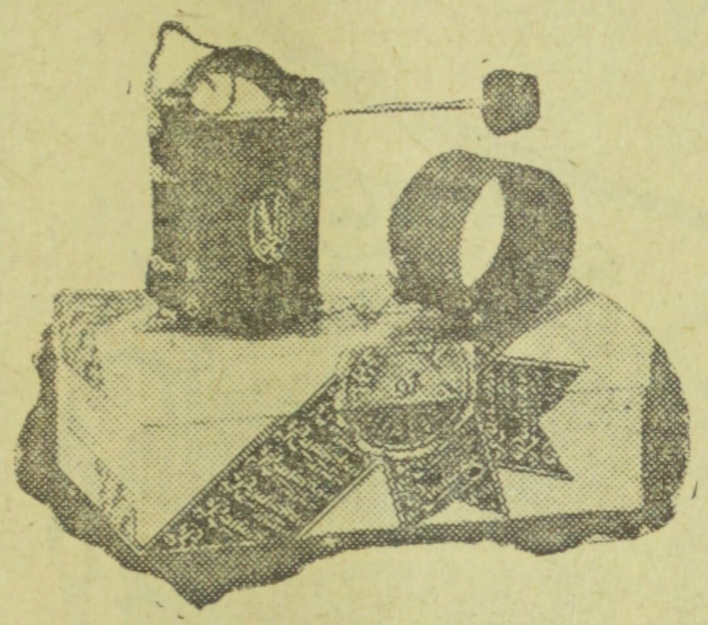

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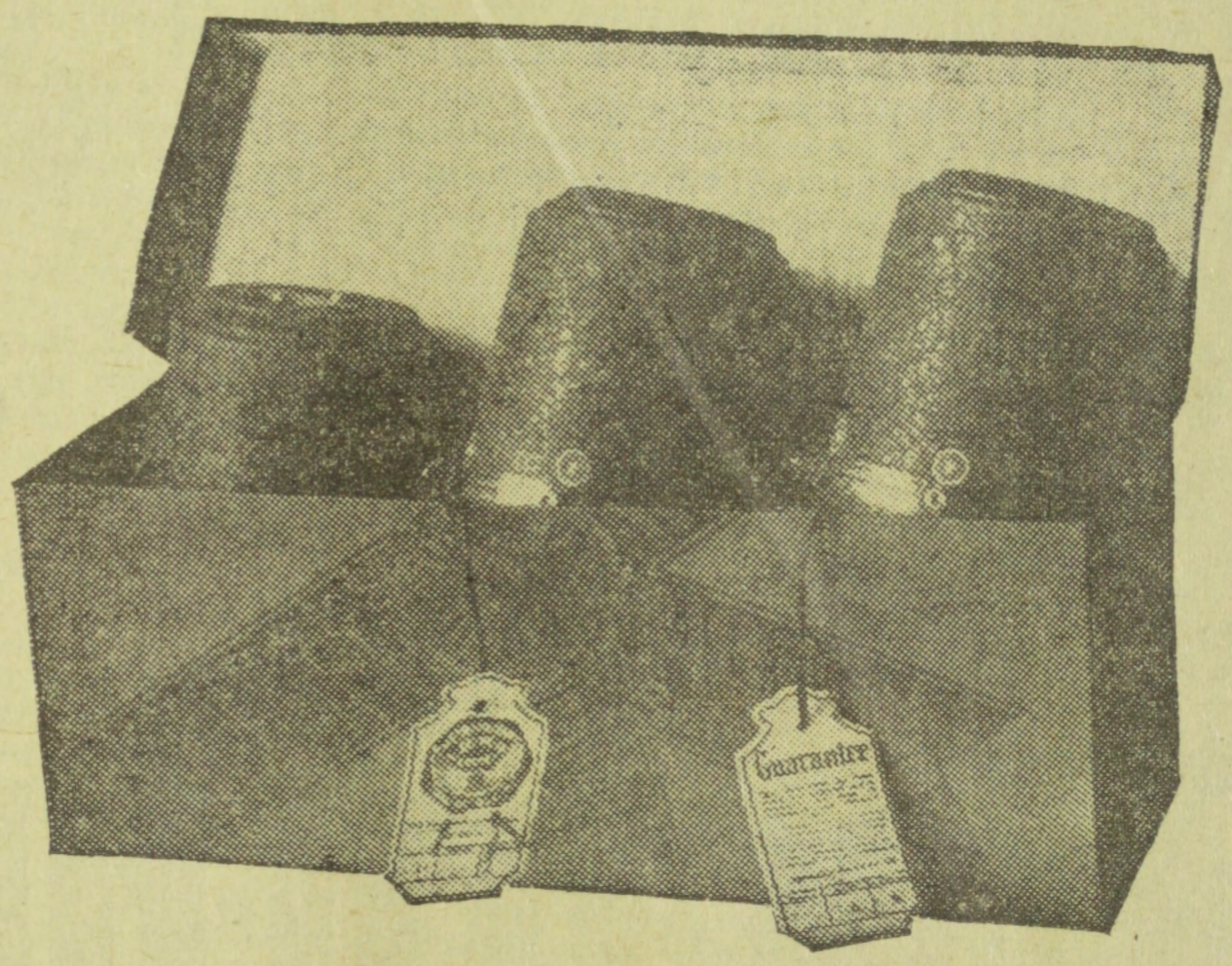

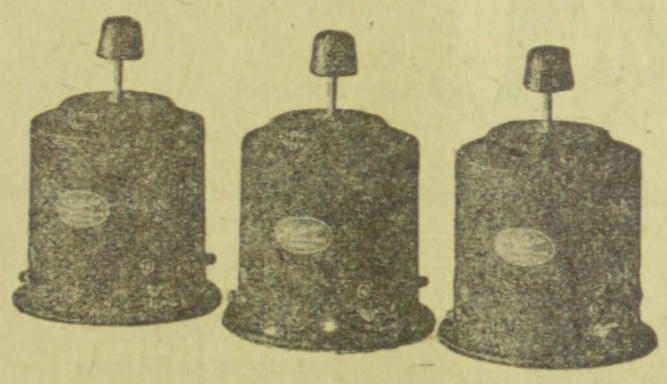

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WIRELESS WEEKLY

VOL. 11. No. 25. FRIDAY, 13th APRIL, 1928.

The Romance of Radio.

THERE are now in Victoria alone nearly 140,000 wireless receiving licences, or more than the total number issued in all the other States together, and it would appear that the majority of listeners in Australia depend mainly upon 3LO Melbourne for their broadcast services.

Wireless has invaded the everyday life of practically the whole community. There is no section for which 3LO Melbourne does not provide a service. All the arts and sciences are drawn from, and every avenue of learning, religion, entertainment, sport and sociology is exploited for the comprehensive daily programmes. Universities of the world, leaders of thought and men and women of genius and fame are brought to the microphone so that listeners in town and country alike may benefit by their knowledge and talent.

Way out back in pioneers' homes, where music at one time never entered, and in lonely bush camps, can now be heard, the very latest in music, song and story. Dances are held regularly throughout Australia to music broadcast by 3LO. The country is brought closer to the City, or in other words the City is taken to the Country.

Than this, surely, there is no better remedy for the evils of centralisation. Wireless is a veritable godsend to the aged and the sick and infirm. Tragedies lay behind many of the urgent police messages broadcast and through them many relatives and friends, long parted, are brought together, often, alas, at the deathbed.

Many lives are saved by urgent broadcast appeals for blood transfusions. Settlers are warned of approaching floods, and are kept advised as to the state of the markets, men who go to sea are informed of storms, and explorers in the heart of the continent are kept in daily touch with the outside world.

Such are some of the many services rendered by 3LO Melbourne.

The absolute futility of endeavoring to please every listener at the same time is obvious. It is not in human nature to do so. It is the unenviable task of 3LO, therefore, to please as many as possible at any one time, and everyone as much as possible, and as often as possible.

The task of preparing daily programmes always four weeks in advance must be colossal, and results, together with the favorable findings of the Royal Commission on wireless which sat last year, are the best indication of the popularity of the services of 3LO.

Nevertheless, this does not act as an incentive for those responsible for the services to sit back and rest upon their oars, so to speak.

They must look ever forward and besides continuing comprehensive research and psychological study here, comb the world for new ideas to improve both transmission and programmes.

The future holds many important developments. Relay stations in the country are the first essentials to efficient provincial services, and 3LO is particularly anxious to procure the necessary consent of the Postmaster-General to proceed with these. Unification of control and decentralisation of operations would be followed by widespread efficiency. Television is surely coming, and it will not only be an adjunct to broadcasting, but part and parcel of the everyday functions of 3LO. Other developments will come. This baby science is just beginning to walk, and yet its remarkable evolution constitutes one of the world's great romances—what the future holds, who can tell? Sufficient for the day is the determination to keep pace with the march of events, so that listeners will at all times receive the best services possible.

Catching Up with the Wireless World.

By R. E. CORDER.

A LADY SPEAKER recently delivered a lecture lasting over eight hours. In the end, we understand, her husband agreed to buy her the hat.

THE FIRST radio niece in Australia was Cousin Willa, who has regularly been entertaining children with lullaby and children's happiness songs for five years. Cousin Willa is now a grown woman, so last Saturday a bucket of water was poured over her and she was rechristened "Aunt Willa."

FULL CONSTRUCTIONAL details of an interesting and most efficient five valve receiver—the Peridyne—will be described in "Radio" for April, by the Technical Editor. On the inception of this instrument in America, astounding claims were made for its performance, and these claims are endorsed through actual experience by Mr. Knock.

TEN YEARS ago radio was unknown in most homes. To-day there are millions of people in the world who have a real interest in radio broadcasting. Discounting many times (as any sensible person unconsciously does) the figures given out by over-enthusiastic broadcasting managers, we must still place the number of listeners at some several hundred thousand millions.

THE OTHER EVENING, whilst "Mike" was being transported to a ceremony, he slipped off his transport, unknown to the driver, and hid behind a seat in Hyde Park where two persons were discussing interesting matters. It is feared that "Mike" so enjoyed his eavesdropping that he intends to do this frequently. Listeners heard the conversation on topical matters, and even 2FC were not aware that all was not as it should be. Owing to the fact that "Mike" has a cold, it is not thought advisable to put him in chains, and listeners should not be surprised should similar events happen.

A TRANS-ATLANTIC radio telephone rate of not over £4 for a three minute talk is forecast by William Marconi, by improved beam methods. He is to test his idea soon from his yacht in the Mediterranean.

THERE IS GREAT rejoicing in Japan, and not without reason. The Japanese Government has decided to revoke its previous decision to prohibit the operation of radio apparatus by amateurs. The result is that a large number of the Japs. are already in operation under new call signs of four letters, and the need for secrecy is happily passed.

LETTERS and telegrams were received from all over Australia following on the recent broadcast of the Rosehill races. From Singleton, Walcha, and other distant parts enthusiastic telegrams were sent, and one writer said: "These transmissions are the best I've heard since Mr. Dexter's descriptions last Christmas." Mr. Basil Kirke is in charge of these transmissions.

PASSENGERS on the "Aorangi" last Thursday evening were beginning to make arrangements for embarkation at Sydney, when across the waters a powerful human voice came from the void. "Hello, 'Aorangi'!—Welcome back to Sydney. Hello, Mr. Lake—is Mr. Lake on deck?" then a sentence that caused a hearty cheer from the passengers—"Welcome back to the Waratahs—the world's greatest footballers." Pitch darkness hid the tossing pilot steamer, "Captain Cook," from view of the passengers, who had crowded the rails the better to hear the mystic voice. On the Captain Cook was a speech amplifier which had been erected with the co-operation of Amplion Ltd., in order that Mr. N. B. Freeman, Managing Director of Metro-Goldwyn-Mayer Ltd., and other celebrities might, with the co-operation of the captain of the famous pilot steamer, adopt this most unusual method of greeting Mr. David Lake, General Sales Manager of M.G.M., who was returning after a business trip to America.

RADIO TELEGRAPH service has been extended now that a service has been established from Hong-Kong to North and South America, Hawaiian Islands and Europe.

EUROPEAN stations may be heard about 4 a.m., and an occasional one in the late afternoon, while some of the South Africans put in an appearance in the early hours of the morning. Yanks are numerous at dusk, but seem to fall away after that time.

MUSIC should be approached as an experience. Cut and dried systems are of no avail. It is an experience like a summer holiday, or falling in love, or even like bad news. It is something that happens to one, but it is not on that account a passive experience, for the supreme argument in favor of musical appreciation is that as much good is derived from it as is put into it.

THE MANAGEMENT of 2GB desire to thank the many listeners who have written regarding the improvement of this station's broadcast programmes since the new studio came into use. Nearly twice as large as that formerly in use, the new studio is to be further improved yet. A thick blue carpet will be laid, and blue drapings to match will be hung around the walls. The ceiling and walls are to be colored cream. The latest in gramophone attachments is already in use, and many listeners actually mistake gramophone records for actual broadcast items.

THE WOMEN'S competitions at the Radio Exhibition, conducted by Mrs. Jordan, of 2BL, were a great success. The prizewinners were: Plum cake, Mrs. Curry; sponge cake, Mrs. Phillips; toffee, Mrs. C. Capes; jellies, Mrs. E. Hill; candy, Mrs. G. Ralph (1st prize); Mrs. J. Thurben (2nd); preserves, Mrs. Watson; jams, Mrs. Sapsford (1st prize), Mrs. Tracey (2nd); muffins, Mrs. H. V. Gould (1st), Mrs. Pears (2nd); sealing wax craft, Mrs. Rason; crepe paper work, Mrs. Rason; poker work, Mrs. W. T. Kirwan; embroidery, Miss Montgomery.

"Radio as a Factor in International Relations"

By Dr. E. E. Fournier d'Albe, F. Inst. P.

The second of a series of articles, by the eminent scientist, in which he discusses the wider, more embracing aspects of Radio

WITH the formation, in March, 1925, of the Union Internationale de Radiophonie, with its permanent seat in Geneva, international relations entered upon a phase hitherto unknown.

In order to realise the full significance of the new departure, let us for the moment substitute the press for the broadcasting companies, and imagine the European newspapers arriving at an agreement comparable to that of the "Plan de Geneve." The European population would have been parcelled out into eighty-three areas, within each of which one newspaper had a practical monopoly of publicity, a voice which predominated over all other voices, without fear of interruption by its neighbors. That alone would have given a power and prestige to the press hitherto undreamt of.

But the International Broadcasting Union has done more than that. Not only has it distributed wavelengths in proportion to the area, population, and activity of the various States concerned, and guaranteed them against mutual interference, but it has established the principle of active co-operation, based on mutual respect and goodwill. It has been agreed that no broadcasting station shall transmit anything likely to give offence to its neighbors.

This admirable agreement may be fairly easy to carry out in the present state of broadcasting, when those in charge of the stations are anxious to avoid anything in the nature of controversy. But the real test will come in broadcasting news and comments regarding matters on which public opinion in neighboring States diverges considerably. It is amusing to hear Moscow and Warsaw shouting more or less well disguised propaganda at each other. One wonders which will prove the more persuasive of the two: the flexible consonants of the Polskie Radio or the still more flexible vowels of the Old Komintern. The comments of Kovno station on the Vilna question had a distinctly patriotic bias, but showed more restraint than the Lithuanian newspapers. The old observation that the acquisition of power breeds a sense of responsibility has not failed in this case. When Russia will have joined the "gentleman's agreement" about broadcasting, a firm foundation will have been laid for a United States of Europe.

The main difficulty in the way of the creation of a sense of unity among European nations is the linguistic one. It is by no means true, as Esperantists contend, that all international disputes are due to misunderstandings attributable to differences of language. Some of the bloodiest wars, even in modern times, have been fought between people speaking the same language. The Austro-Prussian war, the American civil war, and the Irish rebellion were fought between combatants speaking the same language and inheriting the same civilisation.

And these wars were not commercial wars. Austria and Prussia fought for the sake of pride and power. America was divided on the issues of slavery and self-determination. Ireland fought for freedom, although that freedom might bring commercial ruin and industrial stagnation. There was war in heaven before there was war on earth, the war of ideas and ideals. The best way to stop men killing each other is to preserve harmony among their ideals.

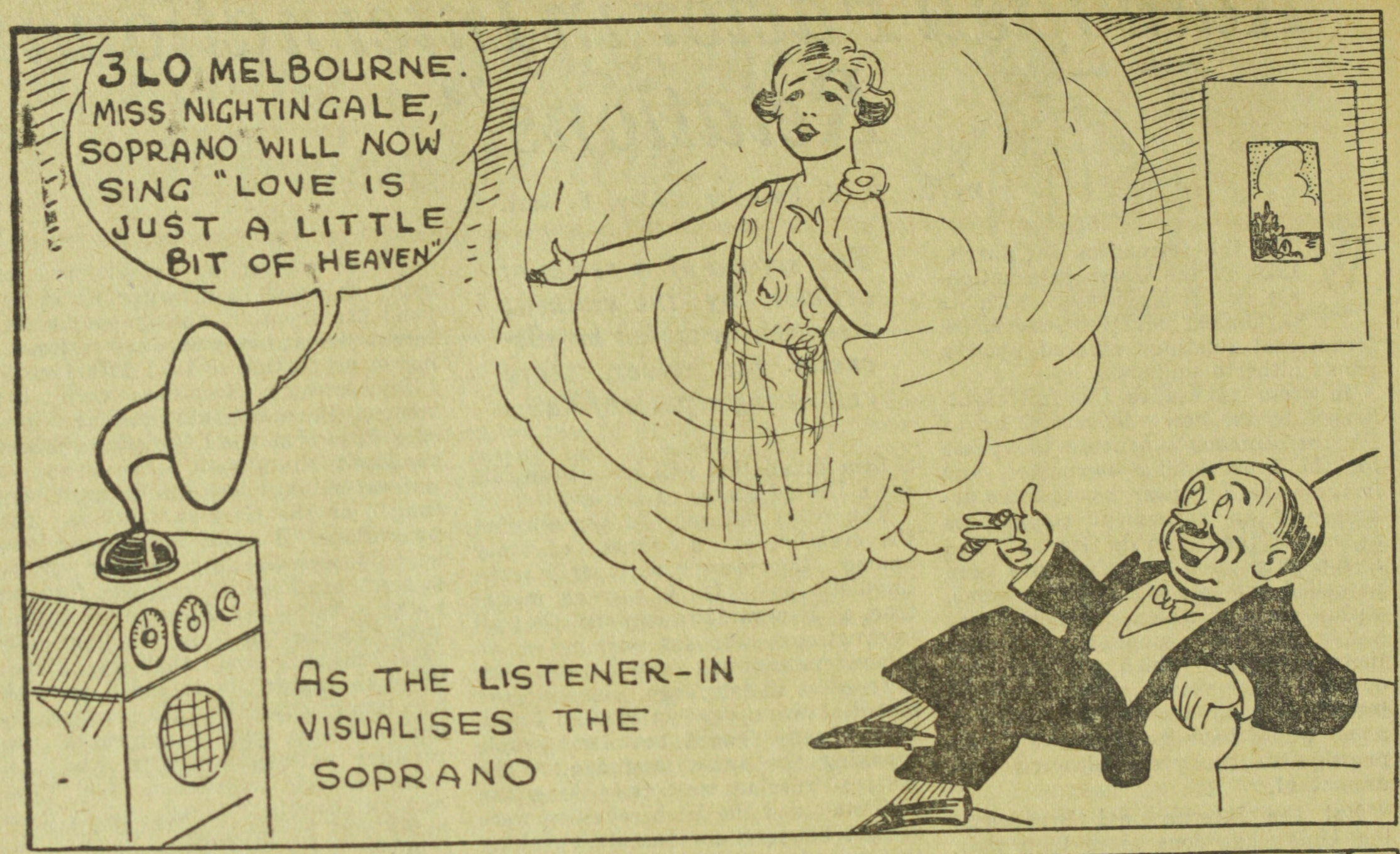
It is in this direction that broadcasting can exercise an influence making for peace. The national wireless programmes give a faithful picture of the national taste, of the opinions, the hopes, and the aspirations of the people. This is particularly noticeable in countries, which, like Great Britain, Germany, Austria, Italy, and Scandinavia, have adopted the system of indirect State ownership. In listening to Dutch stations, one may indeed get the impression from the voluminous police news that criminals are unusually active there; and Barcelona, broadcasting from a place where they make artificial pearls, gives an impression of commercialism far remote from the true nature of Spain. But the international listener who roams through Europe with the aid of his four-valve receiving set, gradually acquires a sense of comforting familiarity, of being at home in a larger world beyond the frontier, among people different from his own, and interesting in proportion to that difference.

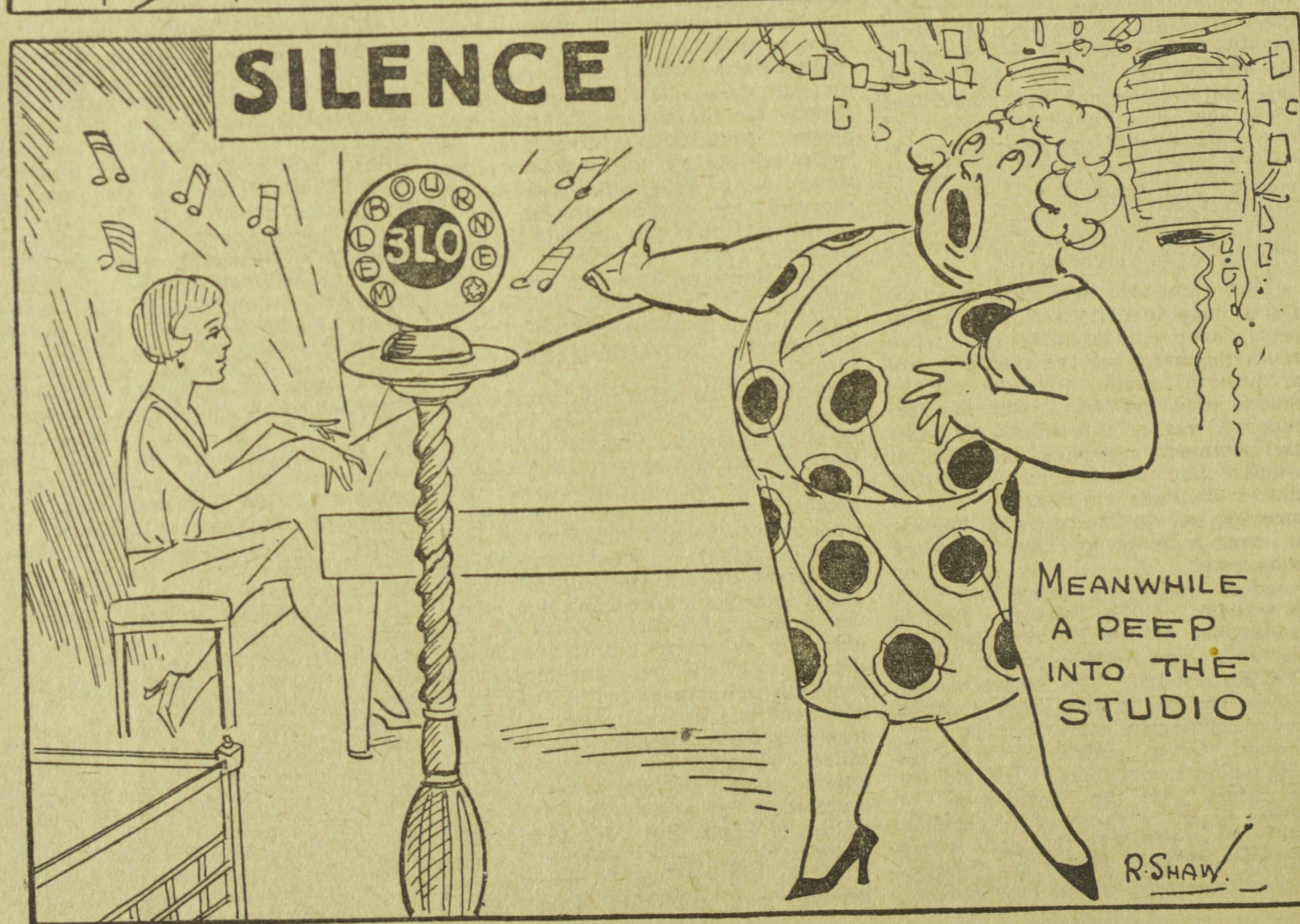
In becoming familiar with the various European stations, the listener finds that the linguistic difficulty gradually disappears. He learns to understand the semi-military "Achtung!" of the German stations, the punctilious "Bonsoir, Mesdames; bonsoir Mesdemoiselles; bonsoir Messieurs" of France, and the "Buona notte a tutte" of Rome. He learns that "Lahku noc" is Serbian for "Good-night," and that the Dutch "Wel te rusten" is intended to wish him happy slumbers. He becomes acquainted with quite a number of unfamiliar national anthems, and acquires a vivid impression of a "Concert of Europe," where all is harmony and benevolence.

One must not build too many hopes on this beginning. Some of us remember that until just before the war the Eiffel Tower was in the habit of sending out most affectionate greetings to "tous les chers amis de F.L." But we can hardly compare a small number of Morse readers who understood and felt the warmth of these messages with the millions affected by modern broadcasting. The constant daily experience of international sympathy and co-operation must have a lasting effect on the mutual attitude of nations.

We need not look forward to the reduction of the number of languages to a minimum in order to break down the barriers between nations. The world loses by the death of every language which has been used and cultivated by great thinkers and writers for expressing their thoughts. The European listener has one great advantage over the American. He lives in a garden of the most choice and varied flowers, each carefully cultivated and having a choice perfume of its own. America offers only English and Spanish.

Greece owes the success of its struggles for independence to Europe and the love inspired by Homer and Plato. The debt we owe to Greece has been paid back a hundredfold. Broadcasting makes it possible for every nation to make a free gift of its cultural treasures to all. Such gifts make enmity impossible.


3LO MELBOURNE. MISS NIGHTINGALE, SOPRANO WILL NOW SING "LOVE IS JUST A LITTLE BIT OF HEAVEN"
AS THE LISTENER-IN VISUALISES THE SOPRANO


SILENCE
3LO
MEANWHILE A PEEP INTO THE STUDIO
R. SHAW.

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.

CHOIRS.

Dear Sir,—May I add my views to those already published on the subject of broadcasting religious services? My chief complaint against some of the latter is the vocal merit (or demerit) of some of the choirs. It is hard enough in church to sit out a miserable service, but without the environment, it is doubly hard. One choir that we heard quite recently was composed chiefly of one alto of raucous quality-execrable! For choirs of this kind to claim that they are broadcast singers from an A class station seems unreasonable and ludicrous in the extreme, besides the "infliction" on listeners. There are some choirmasters and organists who understand nothing whatever about the voice, and cannot distinguish between singing and shouting. Although they may realize that "something" is wrong "somewhere," they are incapable of "righting" it, and the old saying that "choirs ruin more voices than enough" is only too true in such cases. My contention is that only the very best services from each denomination should be "put on the air." I think it is safe to assert that an A class station would not entertain a proposal to broadcast a concert or theatrical chorus of untrained voices of little or no merit whatever, so why "put over" choirs of that kind? I do not for one moment wish to undervalue the smallest effort of any denomination, it is all helping with the "Great Plan," but to scatter it broadcast is quite another matter, and one that is liable to militate against the beauty of church work. When "Madame Pompadour" was on the air with its highly-trained and beautiful singing —quite the best of anything of the kind from local stations—the difference was so marked as to be painful to hear a miserable church-service come over.

For general singing, Pitt Street and Petersham Congregational churches easily come first, and are fine services, especially their chanting of the Lord's Prayer; the preachers also are well worth hearing, but for choral work St. Andrew's Cathedral stands alone with its beautiful intonation and male choir. Some of the suburban Anglican services have not been "up to the mark" in the past, but have greatly improved latterly, and have been beautiful and inspiring to those of us who understand them. St. Thomas', North Sydney, was one of the best, but we have not heard it for a long time. "The Lyceum" Hall has given us some good services at times, also some poor ones, and of the Presbyterian, I think that "Chalmers Street" and St. Stephen's are the best, but could be much better. I do not understand the Roman Catholic service, but must mention "the fine choir" from Manly College, also that of St. Patrick's, Church Hill.

For those who regard the religious services as "cant," etc., and would eliminate them, it would be well to remember that the world is made up of different people, and because a few are agnostics or atheists, it is not quite equitable on their part to wish to deprive many of us of what is the grand item of the week—a good service from our beloved church. I think that the number of votes against broadcasting religious services would be negligible.—I am, etc.,

Auburn. A LISTENER.

CN 5 VALVES.

Dear Sir,—In the last issue of your "Wireless Weekly," I noticed a letter from Mr. B. O'Brien, Sydney, in connection with 2FC's wavelength. I have a D. J. Standard Five Valve set, 4 volt A battery, 4 Mullard P.M. 3 valves, and 1 P.M. 4. 2 45 volt T.A.B. rechargeable dry batteries. I wish to state before going any further that my T.A.B. batteries have been in use 6 weeks, and have not been recharged. I find no alteration in 2FC's wavelength, still get them on the following numbers—40, 37, 33. I have had my set six months and the only wavelength that has altered is 5CL, from 395 to 409. I get no interference from 2FC and 3AR. I get 3AR on the following numbers—50, 47, 53. I notice Mr. O'Brien says these two stations are only 4 degrees different on the dials. They are 10 on mine, and a difference of 24 metres in wavelength.

Mr. O'Brien quotes 4QG as a good station for reception. This station on my receiver is one blur. Worse at times. Also 2BL is very mushy at times on my receiver. 5CL, 2FC, 2KY, 2GB, 2UE, 3LO, 3AR, 2YA all come in clear and loud on my receiver. 3LO, of course, stands on its own, 2FC next, 5CL next. Then 2GB and 2YA.

My opinion is that there is a station interfering with the wavelength of 4QG and 2BL, and this JOBK, 385 metres. This station I picked up on earphones last Sunday night between the hours of 10 and 11 p.m. I could not understand what the announcer was saying, as it was in a foreign language. It was quite loud on earphones at times. Also 2BL. The station effecting its wavemetre in my opinion is 5WA. I also wish to say there is a Code station on 4QG's wavelength, and I get it very strong on speaker when 4QG closes down. I might also state I pick up the following stations on phones when weather conditions are favorable:—EAJ4, when 3LO closes down, KZRM, KZRQ, JOBK. I would not be too sure about EAJ4. It may be JOAK. In my opinion Mr. O'Brien's receiver must be constructed wrongly, if 3AR and 2FC cuts in on one and other at 24 metres apart.

Yours faithfully,

Barellan. MAC.

DX.

Dear Sir,—The average person who owns a radio set, from the humble 2 to the Super 8, at some time or other stays up half the night looking for D.X. signals, with the ultimate result that he gets disgusted and shuts up his set and goes to bed, and sometimes to a tongue banging from his better half for burning the light unnecessarily. I am no exception to the rule, and the only D.X. I have got has been static, some of which, judging the intensity, was from outside of Australia. I have a set of which I am proud of, but I do not make extravagant statements as to its possibilities, like some of the sets I have seen advertised, such as the following. "Last night I logged 6 Japanese, 2 Spanish and 8 or 9 Americans. I can also get JOAK and JOCK on my set using only 6ft. of tape, etc., etc." The average man who reads these advertisements buys a set and imagines that he can do the same, and after trying for about 3 months, he comes to the conclusion that he has been had; he goes back to the shop and the plausible salesman hears his tale of woe; his answer is, invariably, that "the set is quite O.K., but, of course, the weather is rather against long distance reception." When, oh when, will we get truth in advertisements? I always thought that the U.S.A. was good at "hot air," but after some of the advertisements of sets in Australia (made here) I am almost inclined to give them the "medal."

Yours faithfully,

Newcastle. CHELTONA.

B.V.R.G. REPLIES TO R.S.L.R.

Dear Sir,—R.S.L.R.'s letter in reply to mine criticising the monopolisation of both the "A" class broadcasting stations by churches and religious bodies for the greater part of the Sunday programmes, is characterised by assumptions, personal abuse and didacticism. He assumes, gratuitously, that I am antipathetic to the religious section of the community. I am stigmatised as selfish and lacking in consideration. We are also delivered a little homily on the lack of religion in these wicked modern days. Finally, we are reminded of the number of sects who have to be considered and my estimate of one per cent. of the population as being church goers is challenged, R.S.L.R.'s estimate being five per cent.

So far as selfishness is concerned, that appears to be the stock argument against any criticism of the broadcasting programmes. It seems to be assumed that if a listener-in criticises this or that subject he wishes to wipe it out. That is not my position. I have never suggested that religious services should be eliminated from the "A" class stations. My fundamental objection is that on the one day of rest and recreation in the week both 2FC and 2BL broadcast religious services three times simultaneously.

Broadcasting is a public service made possible by the fact that every listener-in pays a fee, and for that fee he expects to get a reasonably good service. It is impossible to please everybody, but the aim should be to please the greatest possible number. If one small section of the public is regularly and exclusively catered for that is an abuse which should be rectified. That is precisely what happened in regard to horse racing until the two A class stations had the brilliant inspiration to agree that one only should devote its efforts to that pastime.

We will suppose that R.S.L.R.'s estimate of 5 per cent. of the population of N.S.W. being church-goers is correct. Presumably only a certain proportion of that 5 per cent. having been to church would listen-in to church services when they get home. And one may also reasonably assume that only an insignificant minority of the remaining 95 per cent. listen-in. R.S.L.R. reminds us of all the various sects, and he says that it would be surprising to find a Roman Catholic listening in to a Methodist service. It might be added that there are also sharp divisions and schisms in each religion. So the actual number of listeners-in who enjoy or approve of any two services being broadcast by 2FC and 2BL at one time must be an extremely insignificant minority of the total.

In U.S.A. the various religious bodies pay rent for broadcasting stations when they require same. Here in N.S.W. we have two religious bodies who have established their own stations. But the remaining sects have gone one better. By custom and usage they have taken the whole of the A class waves for a considerable portion of each Sunday, without any cost whatever to themselves. I say that they have no more right to do so than they have to seize a public park or any other property or service that belongs to the general public.—I am, Dear Sir, yours truly,

"B.V.R.G."

Sydney.

MR. O'BRIEN REPLIES.

Dear Sir,—With reference to the comments made by listeners regarding my letter, which was published in a recent issue of "Wireless Weekly," and referring to the Browning Drake Receiver therein, I would like to inform two of the writers that they have made a grave mistake in condemning this receiver as being non-selective under the conditions set down in my letter, which actually only happens with one station. I will explain this later.

I feel that I have been made, as it were, look like a Nationalist politician in amongst a pack of Labour fans. "Slinging-off" was well in evidence in some of those letters, which was actually uncalled for. For instance, one individual under the pen name of "'Common Sense," hints that the letter sounds all rot to him, because I say at one instance that "I wish to depart from the usual, that of receivers and how to get the best out of them." He wants to know when did I write on the subject. Well let me tell him that I have never written upon this matter, and so far as I am concerned, never will, if it is for his benefit. I simply said that this week I wished to depart from the usual of receivers, and how to get the best out of them, etc., etc. What I meant in my last letter (Improved 4QG) I had boasted the Browning Drake, and explained how good results could be obtained by using good and sound parts, that I wanted to let this go and continue with the complaint regarding the 2FC transmission, instead of wasting time talking of the Browning Drake in general, and results obtained. Is that point clear now, "Common Sense?" The statement was inclined to be more or less burlesque and was the best thing I could think of at the commencement of the letter.

About the interference between 2FC and 3AR, which is still going strong with me. I should like to mention here that 2FC has cleared up its modulation effects lately, and they are now coming in with good clarity on the speaker. But I still stand firm in my belief that 2FC has altered or strayed from its wavelength. 3AR is almost inaudible, due to the choking effect that is produced through the jamming of wavelengths. In my letter I said that 2FC had shifted two metres, changing the dial setting, and leaving a gap of four degrees between both stations. "Common Sense" measured the dials up well in his estimate that 4 degrees meant forty metres on my set, perhaps he could oblige by giving me a little information, and explaining the following little query. The wavelength of 2BL is 353 metres; we all know that. And the wavelength of 3LO is 371 metres. We all know that too. The separation is by 18 metres, and both are received two degrees apart. Not a sound can be heard from 2BL while listening to 3LO (this is where I comment on "Selectivity's" letter), not even when they fade, and this station is received with volume enough to operate two loud speakers easily. On the other hand, while 2FC is separated from 3AR by no less that forty metres, interference is apparent on this wavelength with me than anywhere on my set that I have tried. 2BL and 4QG are separated by a lesser wavelength than 2FC and 3AR are, namely 32 metres, and not a sound of interference is experienced from either 2BL or 3LO while listening to this station on the speaker. Can "Common Sense" please account for this occurrence? If this report fails to convince him I would be glad if he would call along to my residence at Alexandria, and I will be pleased to demonstrate this remarkable receiver to him. This applies to all other listeners also.

My next little chat is with "Selectivity," of Leura, who most graciously offers a fine proposition of a wave-trap which is absolutely "up to putty" because it has been tried without any success. In my letter (I am still quoting it) I stated that 4QG was received perfectly, although a little distorted, which simply meant that usually, and now at times 4QG was found to be unstable in their reception due to bad modulation, causing, as it were, a swinging wavelength. Until recently 4QG has been quite reliable and stable in their transmissions, and all items can be listened to, although the concert is distorted to a certain extent. No! "Selectivity," I shall never have this receiver of mine "scrapped," it is too good a friend, and I will back it on all round lines against any five valve Neutrodyne offered to-day. Bring your Neuts. and yourselves along and the backing will take place. It is a well-known fact that 3LO is our best station. They ought to be able to put on good programmes because of the fact that they have a good staff of directors to back them up. "Melbourne Herald," "J. C. Williamson," and "Buckley and Nunn."

I am afraid that I have gone too far with this letter. I would like to hear from readers once again.

Yours etc.,

Alexandria. B. O'BRIEN.

It's All in the Air

Coming Features in the Broadcasting Programmes

Miss Dulcie Starkey, soprano 2BL.

W. F. KAY: 2FC listeners will welcome their old favorite in a new series of theatrical talks. On Friday, 13th April, he will discuss "A Stranded Actor."

"ROSE MARIE," Friml's record-breaking musical comedy, re-opened at Her Majesty's on Wednesday, 4th April, and the 1st Act will be broadcast by 2FC on Friday, 13th inst. Prior to the transmission, Miss Goodie Reeve will interview Hariett Bennet, at her dressing-room at the theatre. Miss Bennet has many thrilling experiences to relate of her long association with the most captivating production Sydney has known for some time, and listeners will enjoy her gladsome chatter as she dresses for the show.

OLD WORLD ROMANCE: How often we hear of radio bringing cheer to those cast into a tragic backwater of life through physical affliction. To 2FC the other day came Mr. and Mrs. H. Faulkner. "We would like a trial," Mr. Faulkner said diffidently. "My wife sings a little, and I accompany her on the organ. Yes, we are blind," he continued quite naturally, filling rather an awkward pause, "but we think perhaps your listeners would enjoy the little programme we have prepared." And so he played, and Mrs. Faulkner sang simple, old world melodies, her voice untrained, but of heart searching sweetness. The old world romance about it all gave even the harassed management of 2FC pause, and it was unanimously decided that listeners would indeed enjoy the "little programme," so half-an-hour on Sunday, 15th April, has been set aside for the purpose.

"SHORT WAVE TO THE RIGHT." With 2FC's American mail recently came a massive envelope from Cleveland, Ohio, addressed, "Farmer and Company Limited—SHORT WAVE DEPT." Surely the day of the old slogan: "From a needle to an anchor" has gone, when a department store "takes the air" in its stride.

THE SILVER QUARTETTE, which recently delighted listeners to 2BL with a number of instrumental pieces, have accepted a contract to play for this station. They began their contract on Thursday, April 5. The instruments played are as follows:—R. Meadows, euphonium; S. Makin, tenor horn; A. Kenny, solo cornet; and J. Loughland, second cornet.

THE INTRODUCTION of a Sunday night concert arranged by Station 2GB in conjunction with the Straube Piano Company in Adyar Hall, on Sunday night, has now been running for the past six weeks, and considering the crowds that appear each week, they have proved an absolute success. The Hall is filled by regular visitors, who want some place to go on a Sunday night, where good music is to be heard. The listening public are cordially invited to attend. No charge is made.

DIVERSITY: Next to quality, the slogan of broadcasting Stations in the all-absorbing task of programme preparation, is "Diversity." 2FC pride themselves on their ability to present a programme which combines items guaranteed to appeal to the varied tastes of a thousand listeners, without offending individual susceptibilities. On Good Friday afternoon a special Columbia recital of the Bayreuth-Wagnerian Festival music has been prepared. There will also be a transmission from the magnificent Wurlitzer organ recently installed at the Capitol Theatre. In the early evening, Stainer's "Crucifixion" will be rendered by the Choir of St. Mark's, Darling Point, and from the Studio items suitable to the day will be given by the Salvation Army Congress Band. Later in the evening, by arrangement with the Central Methodist Mission, a musical programme will be broadcast from the Lyceum.

THE POPULAR actress, Miss Betty Ross Clarke, appearing in "The Bride" at the Princess Theatre, Melbourne, will broadcast through 3AR from her dressing room at 7.45 p.m. on Friday, April 20. A few days later, Miss Clarke will make her final appearance in Australia prior to departing for America, where she will once again be seen acting for the movies.

MOVIE NEWS now forms one of 2GB's attractions. Uncle George is giving 15 minute talks about the famous movie artists, and so great has the interest become, that Metro-Goldwyn-Mayer are to form a Radio-Movie Club from 2GB listeners. Another innovation that will later be adopted by this station is the actual broadcasting of movie pictures after the style of boxing matches. Imagine —"Greta Garbo is now kissing John Gilbert—still kissing. They haven't finished yet—stand by—" and five minutes later—"They're still kissing —now they've stopped—here's the villain, dressed in a striped silk shirt and top hat. Gosh! she's killed him —now, she's kissing him again," etc.

3LO FREQUENTLY receives little reminders that its Sunday afternoon Sonora concerts are appreciated. Letters come along from far and near from people who might have chanced to listen in to the concert for the first time, or from listeners who feel constrained to comment upon the excellence of a particular programme. The concerts are looked forward to by all listeners.

FOR THE FIRST time since broadcasting was inaugurated actors and actresses performing in the Athenaeum Theatre will be heard on the wireless. This innovation has been brought about by 3AR, and arrangements have been made with the manager of the theatre (Mr. Frank Talbot) for Mr. Percy Hutchinson, who takes the leading part in "The Joker," and Miss Stella Francis, who plays the lead opposite him, to speak from their dressing rooms for about 15 minutes prior to the curtain on certain nights. The date on which these artists will speak will be announced in the programmes next week.

What is the Empire Wireless League?

In our last issue we published an article by Mr. H. A. Hankey, who visited Australia recently to inquire into the possibilities of forming an Australian branch of the Empire Wireless League. Below we reprint a pamphlet which was to have been issued here, in which the objects of the League are outlined.

THE WIRELESS LEAGUE.
(Incorporating the Wireless Association of Great Britain).

Chairman:
The Hon. Sir Arthur Stanley, G.B.E., C.B., M.V.O.

Vice-Chairman:
Sir Lawrence Weaver, K.B.E.

Committee:

Rt. Hon. The Earl of Drogheda, C.M.G.	P. A. Bennett, Esq.
Captain Ian Fraser, M.P.	J. G. Blair, Esq.
L. Hore Belisha, Esq., M.P.	W. O. Coate, Esq.
Professor A. M. Low.	F. A. Davies, Esq.
George Gordon, Esq.	F. G. Edwards, Esq.
Major Chas. F. C. Jarvis.	J. S. Hill, Esq.
S. J. Adams, Esq.	J. E. Kemp, Esq.
The Hon. C. M. de Adlersparre.	R. T. Little, Esq.
	H. B. Old, Esq.
	D. S. Richards, Esq.
	A. W. Shirley, Esq.
	Rev. A. Tildsley.

General Secretary:
A. E. Parnell.

Secretary, Empire Broadcasting Branch:
H. A. Hankey.

Address:
The Secretary, The Wireless League,
Empire Broadcasting Branch,
7 Southhampton Street, Holborn,
London, W.C.1,
ENGLAND.

EMPIRE BROADCASTING BRANCH.

WHAT IT IS.

It invariably happens that when an addition is made to the amenities of our daily life, the need is found for some form of association to control or direct or support its activities. As at the outset of the motoring movement it was found necessary for motorists to band themselves together into a club, so listeners felt the necessity of an organisation to protect their interests on the advent of broadcasting. The amount of space devoted to listeners' complaints and suggestions in the correspondence columns of the Press was one of the many indications that it was essential they should combine. The formation of the Wireless League was, therefore, decided upon, and it entered upon its activities in March, 1925. Its aims and objects are as follows:—

Aims and Objects.

1. To perpetuate, consolidate, and extend the public service character of broadcasting in the British Empire, and, with that object, to support centralised executive control.
2. To exercise increasing vigilance to protect broadcasting from any lowering of its standards and ideals.
3. To safeguard the essential public service against any demand for broadcasting facilities, the granting of which would endanger Imperial defence.
4. To maintain the use of wireless broadcasting for educational as well as entertainment purposes.
5. To assist broadcast listeners in their efforts to secure efficient reception, and to co-operate with other radio organisations in their districts.
6. To bring to the notice of the broadcasting authorities such criticisms as may seem to be constructive, and generally to act as a link between the listening public and the authorities.
7. To watch over all legislation which may affect listeners, and to take all possible steps to protect their interests.
8. Generally to do all such things as are conducive to the efficiency of the service, and in the interests of listeners.

REPRESENTATION OF LISTENERS' VIEWS.

Listeners were quick to realise the importance of belonging to an organisation whose views on such questions as the broadcast programmes, reception, transmission, etc., command the attention of the appropriate authorities. They could, of course, write direct themselves, but isolated complaints or suggestions, for obvious reasons, could not achieve the success which attends corporate representations. The authorities, too, welcomed the appearance of a body entitled to put forward the views of the listener. The Wireless League was the first organisation called to give evidence before the Committee appointed by the Postmaster-General to advise as to the future control of broadcasting, and the recommendations made to the Government were based largely on the League's suggestions.

AN EMPIRE BROADCASTING BRANCH.

With the object of further strengthening their representative powers, the Wireless League recently joined forces with the Wireless Association of Great Britain, an organisation which had previously combined with them to press for the immediate inauguration in England of a broadcast service for the especial benefit of Dominion and colonial listeners. Now that this service will soon be an accomplished fact, the desirability of an organisation to represent the views of overseas listeners, and generally to protect their interests, is obvious, and to meet this need the Wireless League has formed an Empire Broadcasting Branch. We feel sure that overseas listeners will appreciate the advantage of having at their service a body which is already firmly established, and which is recognised by the authorities in the Old Country.

The Empire Broadcasting Branch of the League will assist its members by:—

(a) direct representation of their interests through the Leagues' members on the British Broadcasting Corporation Advisory Committee;
(b) giving them a quarterly Bulletin which will contain live material of interest to overseas listeners, in order to keep them *au fait* with the latest news and developments, circuits, etc.;
(c) watching legislation affecting overseas listeners, and taking steps to protect their interests;
(d) technical correspondence, assisting overseas members to secure efficient short-wave reception;
(e) promoting the general advancement of wireless science and its application, and facilitating the exchange of information and ideas by members of the Empire Broadcasting Branch;
(f) generally doing all such things as are conducive to the efficiency of the Empire service and the interests of listeners.

Overseas members will be welcomed at the offices of the Wireless League when visiting England.

RESULT OF MOVIE COMPETITION.

Croydon Boy Wins.

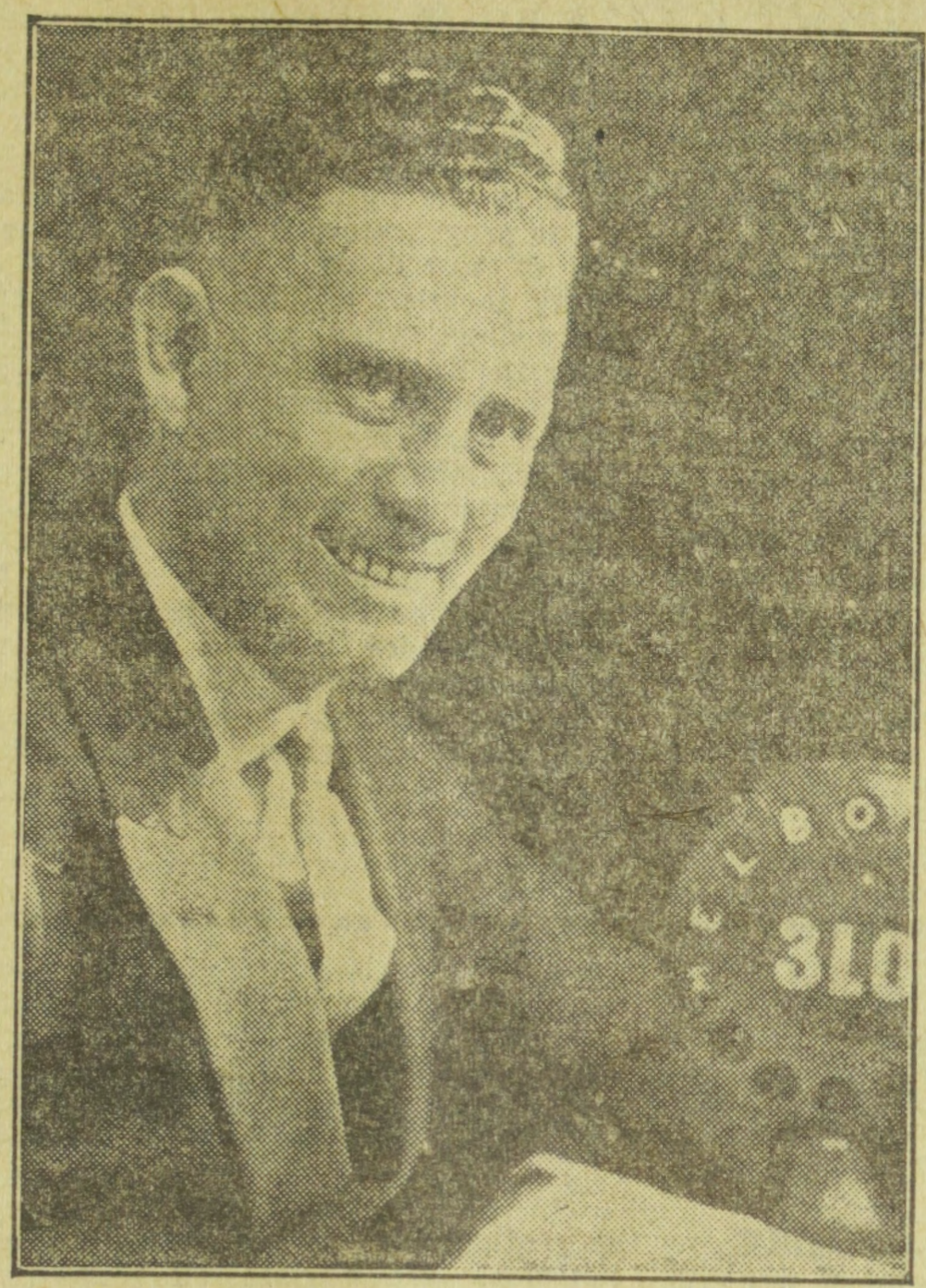
Out of the hundreds of entrants who tried to solve the names of the ten Movie Stars, described by Miss Goodie Reeve, over 2FC, only two people succeeded in getting the whole ten answers correct. The first correct answer to be opened was submitted by LES SMYTH, but as no address whatever was given this candidate had to be disqualified.

THE FIRST PRIZE was subsequently awarded to ALFRED JONES, Esq., 35 Brady Street, Croydon.

And the SECOND PRIZE to MISS JOYCE FISHER, 4 Ellis Street, Chatswood.

The correct solution of the competition was as follows:—

1. Douglas Fairbanks.
2. Lupe Velez.
3. Alice Joyce.
4. Don Alvarado.
5. Clive Brook.
6. Camilla Horn.
7. Percy Marmont.
8. Nils Asther.
9. Merna Kennedy.
10. Carmel Myers.



Frank Hatherley announcer at 3LO Melbourne.

3LO News and Features

ROY GALLOWAY, the English baritone, and Beryl Hayden, soubrette, are two other artists booked for a season with 3LO, commencing on April 16th.

DURING THE week beginning April 16th, University students will celebrate Commencement, and 3LO has invited them to the studio on Thursday night, April 19th—the dance night. The students will provide items between dances, and they promise to be extra good.

RUPERT HAZELL and Elsie Day, the popular comedians who were a feature at 3LO a little while ago, are booked for a return season, commencing on Monday, April 16th. Listeners will be glad to learn that these gifted entertainers will be at 3LO for a month.

WELL DESERVED popularity has been won by the series of descriptions of popular operas, with incidental music, broadcast from 3LO. The feature has been so skilfully done that opera lovers have made special efforts to listen in, and many others have made a first acquaintance with the operas under very favorable circumstances. Another of the opera series will be broadcast from 3LO on the night of Wednesday, April 18th.

COLONEL JOTTINGER will continue educational talks from 3LO on the evening of Thursday, April 19th. These discourses have become quite a Thursday night feture, as they are sufficiently interesting to hold the attention of the most fervent worshipper of jazz.

THE UNIVERSITY Symphony Orchestra, which is 100 strong, and one of the best musical combinations in the metropolis, will broadcast a programme from 3LO on the evening of April 16th. The orchestra is deservedly popular, and listeners will be on the look out for this event.

THAT POPULAR baritone, J. Ernest Sage, still continues to add to his laurels at 3LO, where he has established himself as a firm favorite, and is broadcasting for an extended season. Mr. Sage has now been before the Melbourne public for many years, and his audiences have found that whether he figures in oratorio, ballads, or the concert productions of grand opera, his work always bears the same artistry and finish. He is a member of the well-known Meistersingers' Quartette, and it is pleasing to note, that when the sweet voice of charity is uplifted, the voice of this genial artist is never silent.

THE MOONEE Valley races on Wednesday, April 11th, will be broadcast by 3LO.

THE UNIVERSITY cricket final match, to be played on the University Oval on Wednesday, April 11th, will be followed by 3LO, which will give out progress reports of the fixture.

RACEGOERS should not fail to tune in 3LO at 4.10 p.m., on Saturday, April 14th, to hear the broadcast description of the King's Cup race at Randwick.

3LO HAS arranged to broadcast results of the Aspendale Park races to be held on Saturday, April 21st.

RESULTS OF THE Echuca races on Saturday, April 21st, will be put on the air by 3LO during the afternoon.

CONSIDERABLE interest, particularly in rowing circles, centres in the struggle for rowing supremacy of the Melbourne University. Trinity will meet Queens, and Ormond will be opposed to Newman, in the elimination contest on Thursday, April 19th, and the following day the final will be rowed. 3LO will broadcast results and details of both days' racing.

THE FIRST big match of the 1928 League roster will be that between Collingwood and Geelong on the Geelong ground on Saturday, April 21st. Rod McGregor will broadcast a full account of the match for 3LO, and progress scores of other League matches will be put on the air at the end of each quarter.

YOU MAY NOT understand French, but you cannot fail to appreciate the delectable qualities of French music. A programme of French gems is being arranged by Miss Mary Campbell, of the Albert Street Conservatorium of Music, to be broadcast from 3LO on the night of Wednesday, April 18th. The interlude should be a musical treat.

TUESDAY, April 17th, will be an Old Time Night at 3LO. A special band has been engaged to broadcast old time melodies, and special songs will be sung also. 3LO caters for every taste, and those for whom the past holds many golden memories should not fail to use this means of living once more in those happy days of youth.

THE MOST instructive Women's Hour talks, which have become such a popular 3LO feature, continue to win popularity. Every morning from 11 am. to 12 noon, fully qualified lecturers discuss matters of particular interest to women, going over a wide range of subjects. Often talks are given in a series by experts on every conceivable subject in which women are interested.

ON APRIL 20th, a most interesting travelogue is to be broadcast from 3LO, Melbourne, by Miss Frances Fraser, who may be said to be one of the most widely travelled and extensively read women speakers over the air. In a little talk with Miss Fraser, one learns of an exciting tussle with Italian Bandits, her familiarity with the language helping her to escape, and the fact that she claims to have been educated in the University of the World, taking her Science degree in Australia, her degree of Literature in Scotland, and her Arts Degree in America. During many years of Globe trotting, she has used her keen observation to great advantage, made copious notes, and is now giving listeners, especially those in the Back Blocks, the benefit of her entertaining experiences.

OFTEN, when a talk is broadcast owing to lack of time, or some other unavoidable circumstances, Listeners are only presented with one side of the question. In the Women's Hour, however, especially with regard to cooking, every aspect of the culinary art is sounded. Realising that the majority of people in the country are strangers to the Gas or Electric Cooker, special lectures are broadcast dealing with cooking by the cooking range and "one fire" stove, whilst those fortunate possessors of gas and electric cookers, are also well catered for. Special lectures are also devoted to the preparation of food for the sick, and the harassed housewife, with a small income, is carefully instructed how to render the cheaper joints appetising and succulent, and also how to furnish dainty savouries from unappetising "left overs."

AN ENGAGEMENT of great interest in musical circles in Melbourne is that of Madame Mina Hesseleva, who is now broadcasting from 3LO. The possessor of a beautiful lyric soprano voice, Madame was an exhibitionist at the Conservatorium at Petrograd, where she carried off innumerable prizes during her student days, whilst studying opera and the folk songs of Russia, which she intends to introduce into her programme from the studio. The war unfortunately put an end to her career in her own country, and she came to Australia to join her brother, Mons. Hesseleva, who is well known to Melbourne concert goers as a violinist of much artistry.

A HEARTY welcome is extended to that versatile humourist and entertainer, Rupert Hazell, who with his wife, Elsie Day, to say nothing of the one string fiddle, are to again add much to the lightness and brightness of the programmes from 3LO. Always full of anecdotes, Rupert tells a funny incident of his early concert party days, when, at a small seaside town in England, his party occupied the bandstand, whilst a rival band of artists performed on the beach. The "beachcombers" were not doing very good business, and, one day, after handing the shell round to a meagre audience, a holiday maker, anxious to broadcast the fact that he knew one of the "actors," called out "Doing good business, Bill?" "Good business," was the gloomy rejoinder, "Why, we're lucky to get our shell back."

The Women's Session

WOMEN AFRAID OF MIKE.

Uncle Peter had a most unusual task on Tuesday afternoon when he presented the prizes to the successful winners, who entered exhibits for the Women's section at the recent Radio Exhibition. He presented the prize to each bashful recipient in a most paternal manner although he could not persuade them to speak into the microphone. The little Mike scared them stiff, and although the Studio at 2BL was filled with women, never were women so silent. Even the little children some of the mothers brought with them, were absolutely quite overawed by the Presence of the Announcer. Perhaps! Or had the anxious mothers schooled them to quietness beforehand. Anyway, it was a thrilling experience for them all, and an afternoon to be remembered.

LISTENER-IN HELP.

The cafe run by the City Girls' Amateur Sports' Association at the Radio Exhibition was a huge success, and will bring a substantial sum into their coffers. A very hearty response was given each day as a result of appeals made from the Women's session and listeners dropped the work in their several households and came in to the Town Hall to give willing help to the Association. Our grateful thanks are extended to these helpers; we could not have managed without them.

DR. HARVEY SUTTON SAYS:

That the breast-stroke in swimming is far more beneficial for women than any other, as it exercises all her muscles. He advises all women to adopt this exercise.

SISTER BIRKIN TO SPEAK.

A series of interesting and instructive talks will be given from the Women's Session at 2BL, by Sister Birkin. Sister Birkin, who has lived in the country in New South Wales, and has had experience with A.I.F. in France and Egypt, is particularly interested in our Country Listeners, and will direct her talks mainly for them.

Information will be given on what to do pending the Doctor's arrival in such cases as Sunstroke, Snakebite, Hemorrhage, etc.

Country folk often have to wait a long time before the Doctor arrives, and serious results may occur through not knowing what to do before his arrival.

Listeners are invited to write in to Sister Birkin, who will answer all letters over the air.

AIDS TO BEAUTY.

"How can I make my little girl's hair curl," writes a Mother to Mam'selle Vitkowska, who gives talks on the Art of Beauty each Tuesday.

"How shall I keep from being sunburnt while surfing," writes another.

In great distress a wife asks "Is there any cure for my husband's baldness."

Mam'selle answers all these queries in her own way, perhaps not always to the satisfaction of the inquirer, but nevertheless, truthfully.

Bert Hinkler Talks to 3LO Kiddies

A talk delivered during the childrens' hour at 3LO by the famous airman recently.

HELLO, children—Bert Hinkler speaking:—

First of all I want to thank you for that very handsome present you sent me. I shall prize it all my life, and will always feel very proud when I hand it round to my friends and say to them, "That's what the 3LO children gave me; wasn't it nice of them to think of me?"

I suppose you would like to know how I felt when I was away up in the air on my long journey to Australia. Well, I just felt that I was a flying kangaroo, coming home to my dear native land in big hops. It's a grand thing to feel that you are coming home. You know how you feel when you have been away for a holiday; what a good time you have when you are away, how you enjoy everything —new scenes, new playmates, new games, and all the rest of it, but after all there's nothing more enjoyable than the journey home. And let me tell you that the joy of homecoming is better than ever when you have been far away from your own country. Some day you'll experience this and you will know how I felt when I reached Australian shores after my flight.

What a lot of interesting places I saw on the way back. I wish I had time to tell you about them all, but this is impossible. I daresay most of you know that the first place I stopped at was Rome, more than 1000 miles from London. In those olden days the famous Coliseum was often a scene of great brilliancy during bullfights and many other contests. It was at the Coliseum also that the poor Christians were tortured. To-day the Coliseum is one of the very interesting sights of ancient Rome. Other ruins of famous buildings nearby are also preserved. What a grand old place it is, the Eternal City of the Seven Hills. I could imagine what it was like in the days of old with the proud Roman citizens in their flowing togas, the ladies in their robes of cloth of gold, and the palm-bearing slaves, like living statues of ebony. I remembered that Rome was the birthplace of that great airman, de Pinedo, and I thought of the great scene that must have taken place about two and a half years ago when de Pinedo landed his 'plane on the waters of the Tiber after his long flight to Australia and Japan and home again.

The next place I called at was the island of Malta. That's the place to see, lovely gardens and beautiful fruit orchards and groves of lemons and oranges, all flourishing in the sunny clime of these parts. Malta has a very romantic history, and I advise you all to look it up and learn all about this wonderful island.

Now, after Malta was a long sea journey over the Mediterranean. It took me six hours to get to Benghazi on the African Coast, Tebruk, Ramleh and Basra, and there you get some idea of the kind of country where the great camel trains used to plod along with their tinkling bells, carrying their freights of "gold and gems and silken scarves." It is the land of dates and spices and sweet oils. It makes you think of Ali Baba, the Golden Road to Samarkand; the ancient river of the Abana, and all the glitter and the mystery of the Arabian Nights.

After a run down the Persian Gulf we come to India, first of all the town of Karachi, and then a big hop over to Cawnpore. Those of you who are learning history will remember that it was at Cawnpore that the treacherous Nana Sahib betrayed the British soldiers during the Indian Mutiny. Cawnpore is now a busy commercial city.

Next there was Calcutta. No doubt you have heard a good deal about that very important British outpost, and a very fine city it is. Now I must hurry along and take you across the Bay of Bengal to Rangoon and on to Victoria Point. Did any of you see the picture called "Chang"? Well, that would give you some idea of what the jungles of Siam and Burma are like. The very thought of it gives one the shivers.

All aboard now for Singapore, but on the way we pass Georgetown on the Island of Penang, another great British port, and one of the busiest places I saw all the way. And this reminds me there's a great treat in store for you. When passing over there I saw the British flying boats now on their way to Australia. These flying boats, four of them, are manned by members of the Royal Air Force, and they are due to arrive in Australia about June. Look out for them—it will be a great sight.

Well my time is nearly up and I must hurry you through the Dutch East Indies down to Bima, where I hopped off for Australia. One thing about Bima I shall never forget, and that was the mosquitoes. They nearly ate me alive, and I believe they would have had a go at the 'plane, too, if I hadn't stepped lively.

That brings us to the last hop, over the Timor Sea. Australia is in sight, see there at Darwin is the little monument to Ross Smith, my brother Australian, who made the first of all the flights to this country. Now we're home in dear old Australia. It didn't take us long, did it?

Well, boys and girls, some day you'll all be taking the air like I did. Read up all you can about flying. Learn all about flying and the aeroplane as soon as you can, and remember this, you are Australians and you are Britishers, and we all must see that Britons lead the world in flying as they do in so many other ways. I never lost sight of the good old Union Jack all the way out. It is our protection wherever we go. Look up to it, work for it, and let the world know that Australians are second to none.

And now, fly away on the wings of sleep to the country of dreams.

Good-night, kiddies all, good-night!

3LO Posies.

By Sonia Hardie.

Sing a song of a packet of seeds,
That Mary sends, you know;
Dig your ground and pick out the weeds,
Then wait and watch them grow.

With lots of water, and lots of sun,
To help them on their way,
They'll do their best, their honest best
To bloom for you, one day.

Mary, Mary, at 3LO
(She's not contrary now),
Will send you garden seeds to sow,
And Daddy will show you how.

So go and dig with your little spade,
And rake it smooth and neat,
And shoo the dog, 'case he spoils it all,
With his jumpy, dancy feet.

WHICH DO YOU PREFER?

To buy a Ready Built Radio — or to Build your own?

SEND TO US FOR QUALITY PARTS FOR ANY SET.
LAYOUT AND DIAGRAMS FREE.

YOU SAVE HALF THE COST

AND YOU GET TEN TIMES THE ENJOYMENT

Something Modern!

Ripault's Lateral-Action

LOW LOSS CONDENSER

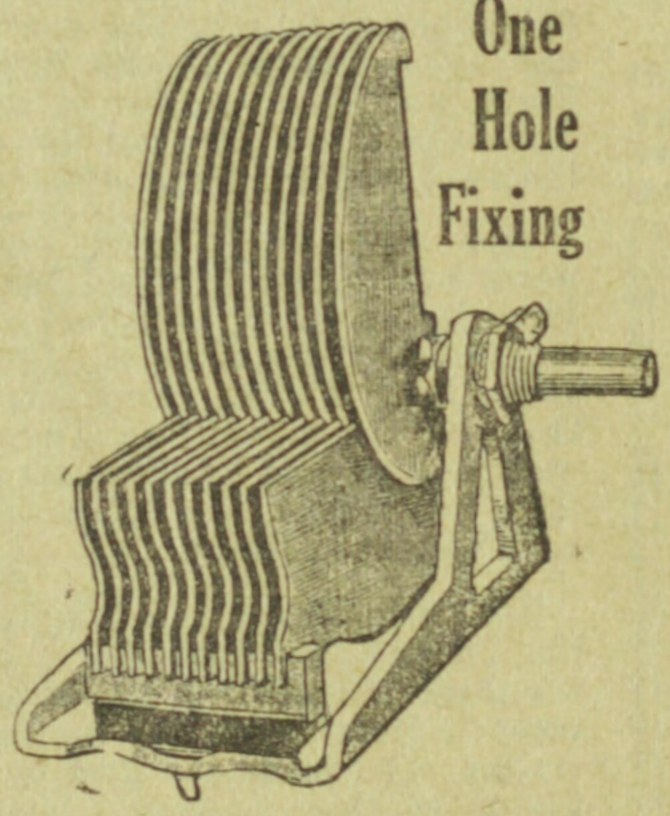
Sizes: .00014, .00025, .00035, .0005

COMPLETE WITH SLOW MOTION DIAL

14/4

Quality Parts for Short Wave Sets

	£	s.	d.
Ripault's Short Wave Condensers	0	14	4
Radiokes Short Wave Kits	2	15	0
Radiokes R.F. Chokes	0	8	6
Kelford Anti-vibration Sockets	0	3	0
Econotron Super Detector Valves	0	13	6
Crescent Audio Transformers	0	13	6
Plug Adaptors to Short Wave Adaptors	0	4	6
Sub-panel Brackets, Pair	0	3	6
Radion Panels, 12 x 7 x 3-16	0	5	3
Time Charts—Gives time all over the world	0	0	10



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PARTS FOR —

THE SCREENED GRID 4

IN THIS ISSUE

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1 Polished Hard Rubber Panel, 18 x 7 x 3-16	0	6	6
1 Radiokes Bayer Coil Kit	1	5	0
2 Quaker Brass .0005 S.L.F. Condensers, at 9/6	0	19	0
2 Pilot Art. Vernier Dials, at 7/6	0	15	0
4 Kelford UX Vibrationless Sockets, at 3/-	0	12	0
2 High-grade Radio Frequency Chokes, at 5/6	0	11	0
1 Crescent Transformer, 6 to 1	0	13	6
1 Crescent Transformer, 3½ to 1	0	13	6
3 Brachstats to Suit Valves, at 4/9	0	14	3
2 Philmore 30 ohm. Certified Rheostats, at 2/-	0	4	0
1 B.M.S. Battery Switch	0	1	6
2 Eco 1 mf. Bypass Condensers, at 3/9	0	7	6
1 Wetless Mica Condenser, .001	0	1	6
1 Wetless Mica Condenser, .00025, and Leak	0	2	9
1 B.M.S. Single Circuit Jack	0	1	7
10 Engraved Binding Posts, 3d.	0	2	6
1 UX 222 R.C.A. Screened Grid Valve	2	5	0
1 Spring Clip, 4d., and 1-yd. Single Flex, 2d.	0	0	6
TOTAL	£9	16	9

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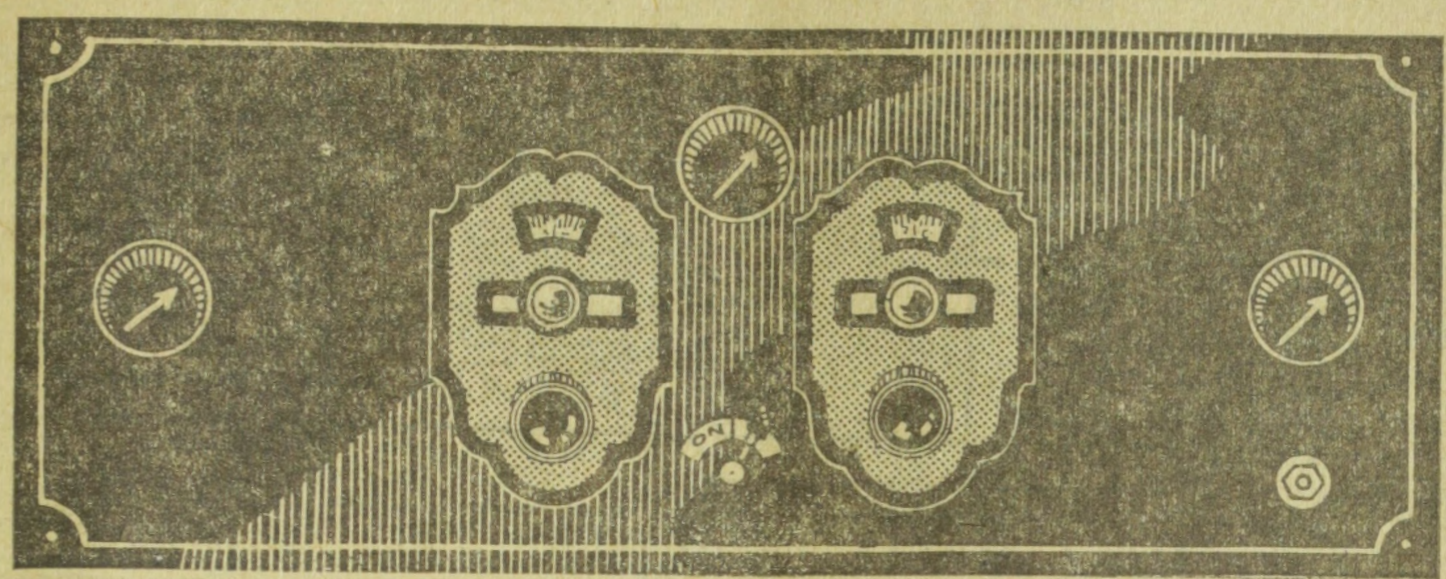


A Screened Grid Four

IT is well known that the valves of a radio frequency amplifier cannot be usually operated in the most beneficial manner without running a risk of self oscillation. There are many methods of overcoming this undesirable feature, but all of them in some form constitute a compromise which results in reducing the maximum degree of amplification obtainable. The supersonic Heterodyne method may be disregarded as this lies in a different category. We find then that the most satisfactory method may be disregarded, as this plification has hitherto been by the neutrodyne method. Neutrodyning is not always satisfactory, as when a circuit is neutralised by this means, this involves a considerable amount of time and care in the process. The new screened valve is a big step forward in radio frequency amplification in that it removes the need for the introduction of loss in the design and construction of radio frequency amplifiers. It dispenses with the necessity for exterior aids to stability. The construction of the valve is similar to the ordinary three Electrode valve, excepting that a fourth electrode is included which takes the form of an outer grid between the normal grid and plate. By the introduction of this outer grid, a screen is provided between the normal grid and plate and thus prevents to a large extent any possibility of feed back due to inter-electrode capacity. A more important property of the screened valve than the elimination of feed back is the comparatively large amplification which may be achieved by the use of a screened valve. The main difficulty with a three electrode valve is that the maximum amplification obtainable cannot be actually neutralised because the feed back increases with the amplification, with a consequent increase in tendency to self oscillation. Another reason why the screened valve gives higher amplification than the three electrode valve is because its internal resistance is much higher.

The receiver around which this article is written makes use of the UX222, the screened grid valve manufactured by the Radio corporation of America. The valve has the standard arrangement of three electrodes with an addition in the form of a screen or shield consisting of a grid inserted between the control grid and plate. The valve may correctly be referred to as a Four electrode valve, but this may lead to some confusion, owing to the fact that there are valves on the market which have two grids in which the second grid is not intended for use as a shield between the plate and other elements. It is therefore much more correct to refer to this valve as a screened plate or screened grid valve, remembering that the plate is screened and the grid does the screening. The filament of the UX222 requires .132 amperes at a voltage of 3.3, thus requiring at least a 20 ohm rheostat if the filament is heated from a 6 volt source. It may be connected across the filament of a UX201A or similar valve, thus being supplied from a 5 volt source. It is better to supply it through a separate rheostat from the 6 volt source, as if any valve is removed from its socket in the first case, the voltage on the UX222 will be increased considerably. The receiver shown in the accompanying illustrations uses one UX222 valve in a tuned radio frequency amplifier stage with the usual transformer coupling between this and the detector. It has always been emphasised that a screened grid valve will work best with tuned impedance coupling between the stages, but it was found that using an inter-stage transformer with an adjustable value of primary coupling the disadvantages necessitating tuned impedance coupling were obviated. The radiokes Bayer coil kit lends itself admirably to this circuit, owing to the adjustable primary coil. The adjustable aerial coupling coil is also a distinct advantage, and is useful in increasing the selectivity of the circuit.

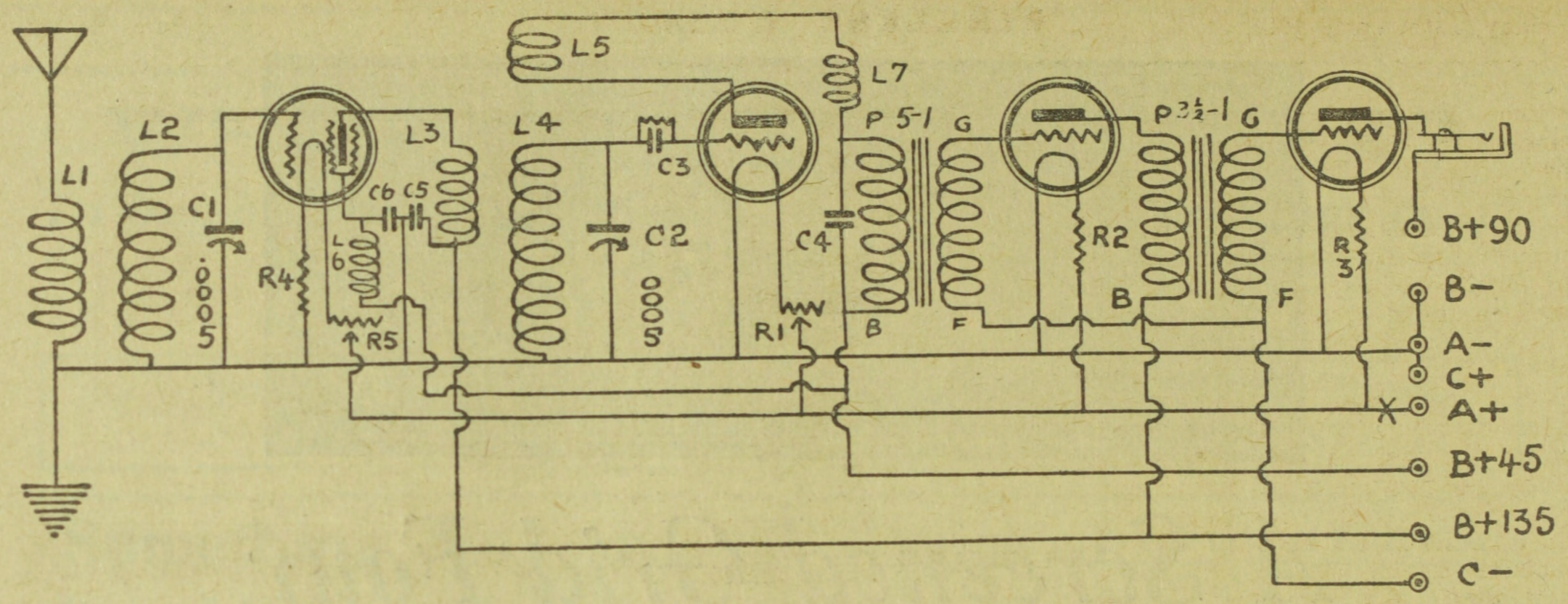
It was found, contrary to expectation, that shielding was not necessary

LIST OF PARTS FOR THE SCREENED GRID FOUR.

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

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

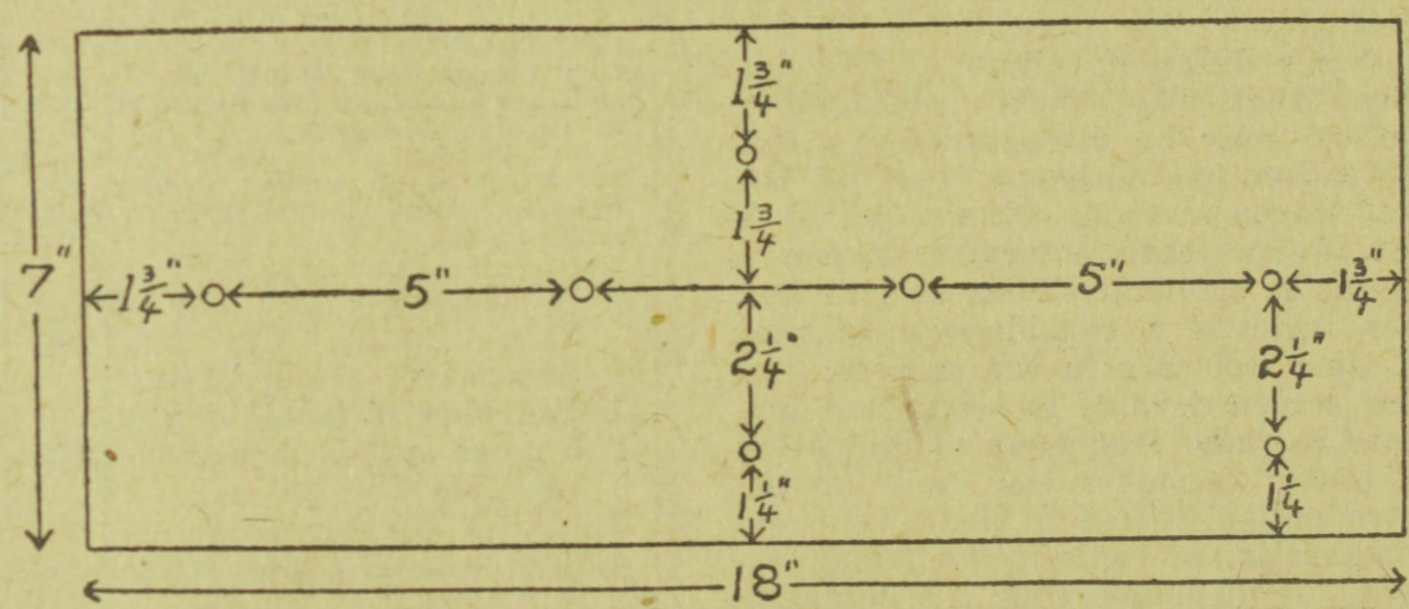
- 1 Dilecto, Formica or Hard Rubber Panel, 18 x 7 x 3-16in.
- 1 Baseboard, 17½ x 12½in.
- 1 Radiokes Bayer Coil Kit.
- 2 Emmco or Advance .0005 SLF Variable Condensers.
- 2 Viking Vernier Dials.
- 4 Benjamin UX Valve Sockets.
- 2 Radiokes R.F. Chokes.
- 1 A.W.A. or Jefferson 5 to 1 Ratio Inter-valve Transformer.
- 1 Ditto, 3½ to 1 ratio Inter-valve Transformer.
- 3 Amperite or Brachstat Ballasting Resistances.
- 1 30 ohm. Rheostat.
- 1 20 ohm. Rheostat.
- 1 Battery Switch.
- 2 1 mfd. T.C.C. or Mansbridge Fixed Condensers.
- 1 .001 Fixed Condenser.
- 1 .00025 Grid Condenser and Leak.
- 1 Single Circuit Jack.
- 10 Moulded Top Terminals.
- 1 UX 222 R.C.A. Screened Grid Valve.
- 1 Spring Clip and Short Length Flex Wire.
- 16's Tinned Copper Wire, Solder, Screws, etc.



nor even of serious value in this four valve circuit, provided that the coils were spaced at a minimum distance of 12 inches apart. This was done in the final layout of the receiver with excellent results. It was necessary to keep coupling between the R.F. amplifier and detector circuits at an absolute minimum, and this was done by by-passing as shown. The screened grid valve was liable to cause changes in screen grid current, and this was eliminated by a radio frequency choke in the screen grid lead. There is no more difficulty encountered in the construction of such a set than a conventional Four, and the results are certainly vastly interesting and pleasing. To put the matter in a nut shell, the use of the UX222 with this receiver, resulted in much higher radio frequency amplification with stability than is normally obtainable with two stages of tuned and shielded R.F.

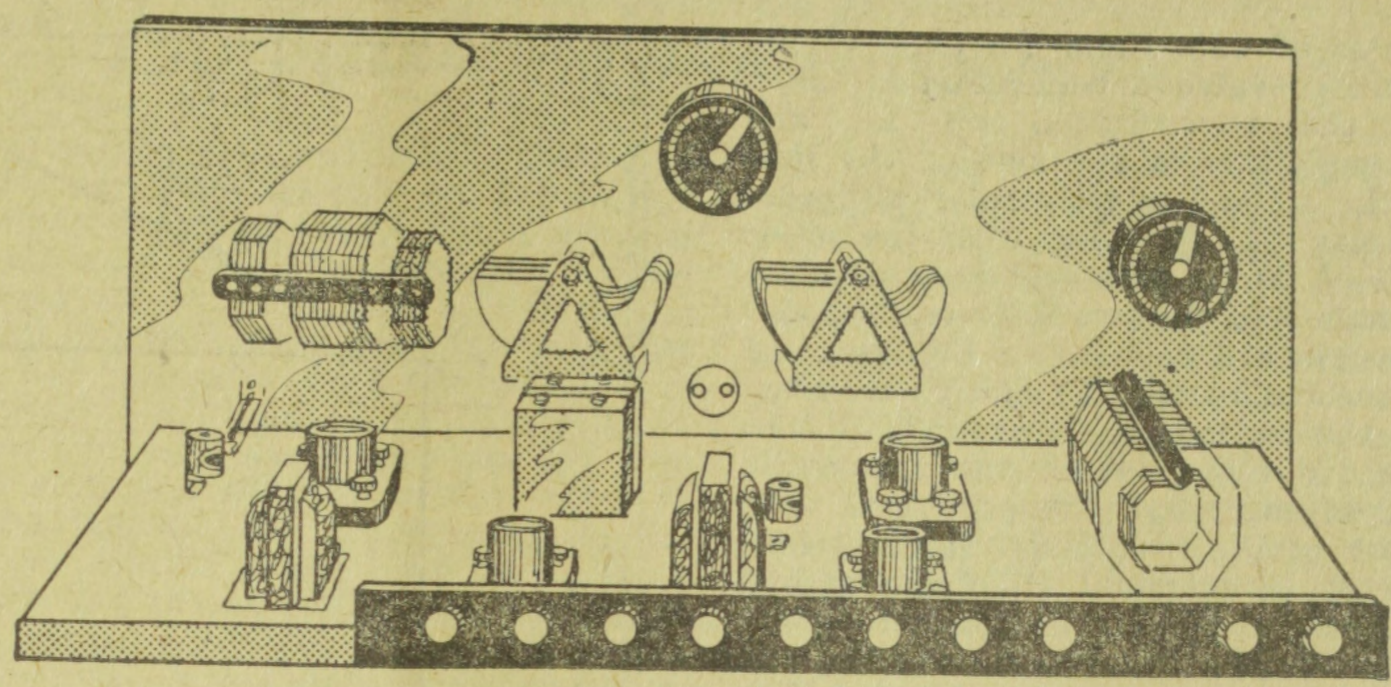
Before commencing the construction of the receiver let us take a resume of the theoretic 1 circuit diagram, together with all values of components, etc. Coils L1 and L2 are the aerial coupling and R.F. coils respectively of the Bayer coil kit. Coils L3, L4 and L5 are the primary, secondary and regeneration coils of the inter-stage transformer. Condenser C1, tuning the R.F. stage, is an Advance or Emmco straight line frequency type condenser, and condenser C2 tuning the detector circuit the same. C3 is the usual .00025 grid condenser with a two megohm leak in shunt, and C4 a .001 by-pass condenser across the primary of the first inter-valve transformer. C5 and C6 are both by-pass condensers, having a value of 1 mfd. each, and are of the Mansbridge or T.C.C. type. Two radio frequency chokes are provided, the first one L6, being in series with the screen grid, and the plate circuit of the detector valve. The second R.F. choke is in series with the primary of the first inter-valve transformer, and the plate of the detector valve through the regeneration coil L5. This is marked L7. Both these chokes are of Radiokes manufacture, and besides being highly efficient are extremely compact, and a desirable unit for any set requiring the use of radio frequency chokes. The disposition of the screen grid is clearly shown in the theoretical diagram in the form of two grids surrounding the plate and linked together and connected through the R.F. choke L6. The valves used apart from the UX222 were all UX201A's, although better results are obtainable by the use of the correct power valves in the audio frequency stages, such as the UX112 or the UX171. The receiver may well be constructed and tried out by the reader using primarily UX201A's, substituting power valves later on. The rheostats next claim attention. It will be noted that the UX222 is controlled by means of two resistances, one being fixed and one variable. This allows the use of the valve from a 6 volt filament supply source. R5 is a 30 ohm rheostat of the variable type, and R4 is a ballasting resistance of the Amperite or Brachstat type. The one used is of the 6 volt 199 type. This combination allows for a censoring of the supply for the UX222, together with a latitude of filament control. R1 is a 20 ohm rheostat controlling the filament supply of the UX201A in the detector socket. A lower value of resistance may, of course, be used here.

R2 and R3 are ballasting resistances of the UX201A 6 volt type. The two inter-valve transformers T1 and T2 are respectively of 5 to 1 and 3½ to 1 ratio. A single circuit jack is provided for the output and if the reader so desires, the volume may be controlled by means of a Royalty Tonatrol. This has a maximum resistance of 100,000 ohms., and is normally shunted across the secondary of transformer T2. The layout of the receiver is clearly shown in the back of panel diagram. To commence construction a panel will be required measuring 18 inches by 7 by 3-16, with a baseboard measuring 17½ x 12 x ½in.

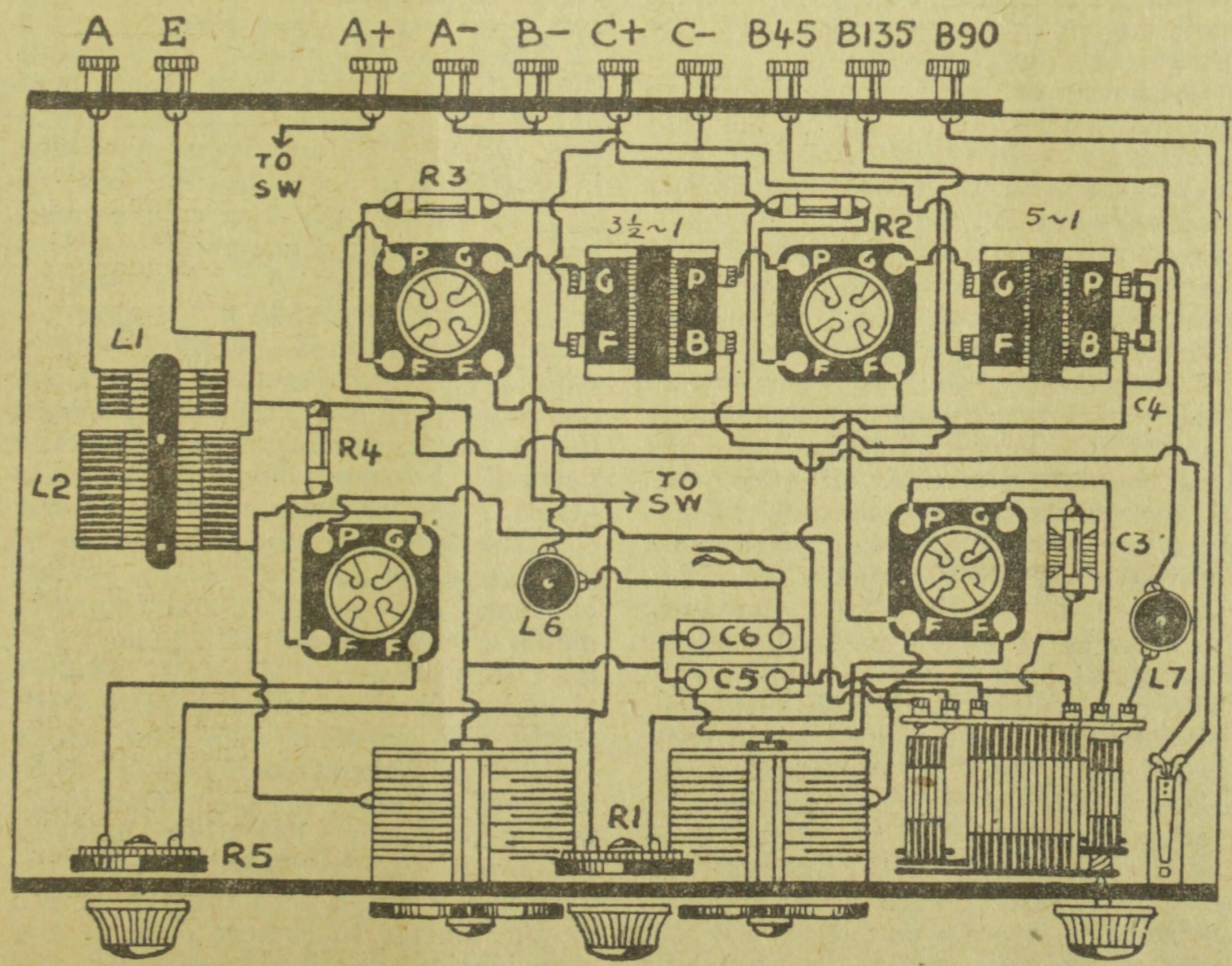


The panel drilling template shows the marking off positions for the various controls which, as seen in the front panel view, are quite symmetrical and pleasing in appearance. The two main controls are situated in the centre of the panel. These are the vernier dials for C1 and C2. Between these and above is the rheostat R1 for the detector valve. Under these controls is placed the battery

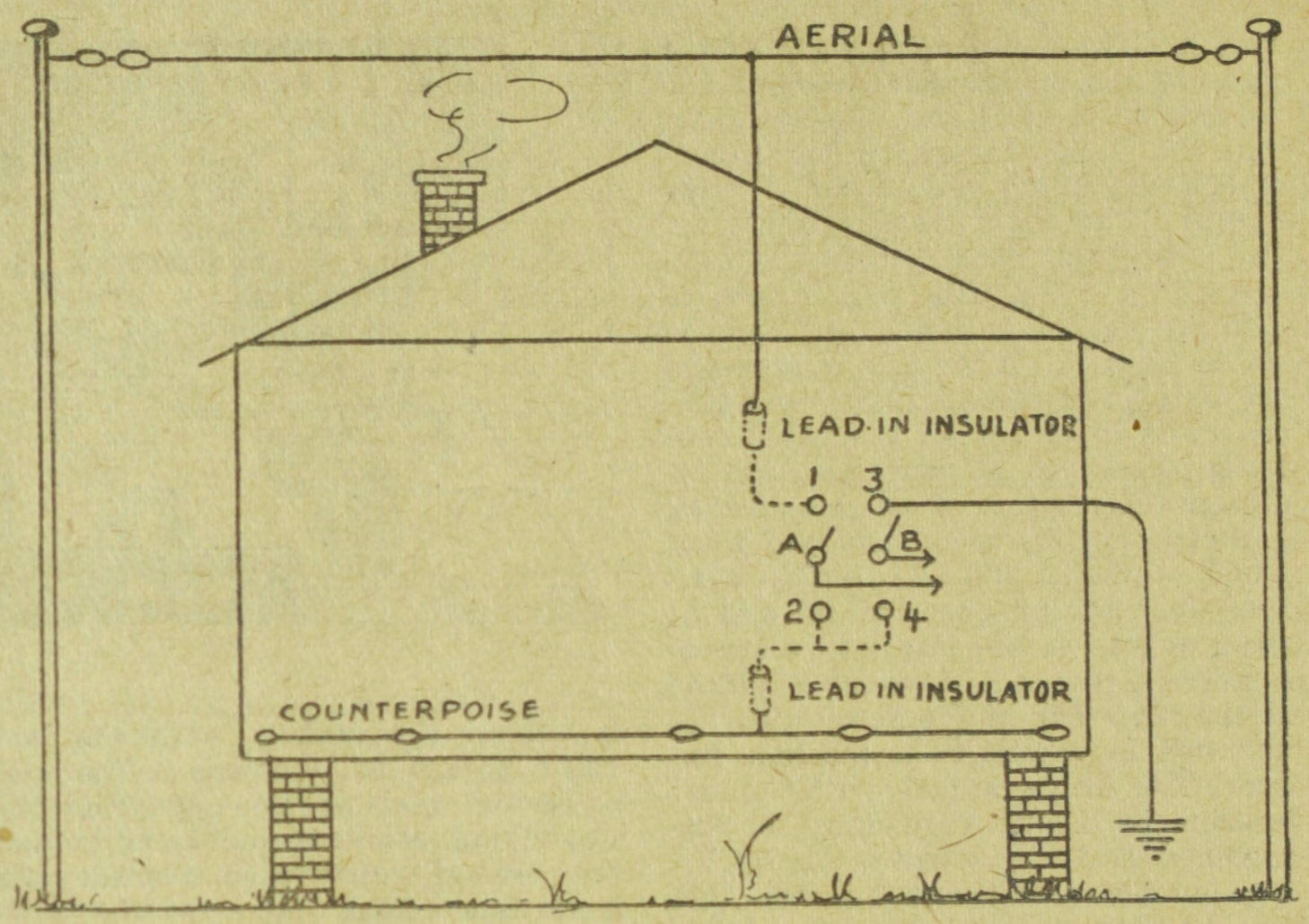
switch. The knob to the right of the panel is the regeneration control and the one to the left the 30 ohm. rheostat R5. Under the regeneration control is the single circuit jack for the output. The exact measurements for the position of each control are indicated in the diagram. It is best to drill the panel before attaching to the baseboard. When this is done and the baseboard mounted, the next procedure is to mount all the panel controls. The back of panel diagram indicates the position of all components, both on the baseboard and the front panel. Coils L1 and L2 are placed immediately behind rheostat R5 and at right angles to the inter-stage transformer L3, L4 and L5, which is placed at the other end of the panel. This is mounted by means of a one hole fixing. The valve socket with its attendant ballasting resistance for the screened grid F.F. valve is placed behind condenser C1 and between this and L1, L2. The R.F. choke L6 is also placed behind this condenser. Behind condenser C2 tuning the detector circuit are placed the two 1 mfd. by-pass condensers in series with the screen grid and the primary coil, L3. The detector valve socket with the grid condenser, leak, and R.F. choke L7, is located behind the inter-stage transformer L3, L4, and L5. The first inter-valve transformer of 5 to 1 ratio is placed immediately behind the detector valve socket and the socket for the first audio amplifier to the left of this transformer looking from the front of the panel. Similarly the 3½ to 1 ratio transformer



is behind the socket with the last valve socket as shown. The two ballasting resistances controlling the amplifying valves are situated behind the second inter-valve transformer towards the back edge of the baseboard. Ten terminals will be required for aerial and earth and battery connections. The aerial and earth terminals are placed on the left edge of the baseboard apart from the battery terminals. This keeps the leads reasonably short and less unsightly. These terminals are mounted on a separate strip of dilecto and provided in the usual way with small distance pieces to keep the underportion of the terminals off the baseboard. A strip will be required for mounting the eight terminals for battery connections. It will be noted that A negative B negative and C positive are linked together. Having mounted all components, commence the wiring with the filament circuits first. From the A negative, B negative, C positive terminal, run a lead to the negative filament terminal of the two radio valve sockets, similarly to the detector valve, and to the rotor plates of condenser C2. From here continue to the mid-point tapping of the two 1 mfd. by-pass condensers C6 and C5, thence to one side of the ballasting resistance used for "censoring" the screened grid valve and to the rotor plates of condenser C1 and the earth terminal. The A positive terminal is connected to one side of each rheostat and ballasting resistance, excluding, of course, the ballasting resistance R4. The other side of the resistances connect in turn to the positive filament terminal of each valve socket. The grid terminal of the R.F. valve socket is connected to the stator plates of condenser C1, and to terminal G of coil L2. Terminal F of this coil connects to the rotor plates of C1. The plate terminal of the R.F. valve socket is connected to one side of the primary coil L3 and through this to one side of C5. This continues to the B positive terminal 135. C6 and C5 are linked together as shown with the centre connection to A negative and the other side of C6 is connected through the R.F. choke L6 to terminal B of the first inter-valve transformer, and one side of the by-pass condenser C4. This also connects to the B positive 45 terminal. A flexible lead is now required which is connected from C6 and L6 to the screen grid of the UX222 valve. This connection to the valve is made by means of a spring clip, gripping the connector on the top of the valve. Keep this lead as short as possible. This completes the wiring of the R.F. circuit. From the grid of the detector valve connect up through the grid condenser C3 to the stator plates of the condenser C2 and terminal G of coil L4. Terminal F of this coil is now connected to the rotor



plates of C2. From the plate of the detector valve a connection is taken to the regeneration coil L5 and through this to one side of the R.F. choke L7 and to terminal P of transformer T1, together with the other side of the by-pass condenser C4. Terminals F of the two inter-valve transformers are now linked together and connected to the C negative terminal on the baseboard. Terminals G connect to the grids of the two audio amplifying valves, respectively. The plate of the first audio valve is connected to terminal P of the second inter-valve transformer, and terminal B is linked up with the B positive 135 terminal on the baseboard. The plate of the last valve is connected through the single circuit jack to the B positive 90 terminal. All that now remains is to connect up the aerial to the other side of the coil L1. Remember that as described this receiver is used with 6 volt valves, apart from the UX222, which has the compensating resistance R4 in circuit to effect the necessary reduction in voltage. It is quite a simple matter to use four volt valves in place of 6, but the resistances must be suited accordingly. The most important feature of the design of the receiver is the effective separation of the R.F. coil and inter-stage transformer, which must be at least 12 inches apart. This is strictly necessary in order to avoid the use of external metallic shielding, which is not normally necessary by this means. The screened grid valve opens up extremely interesting possibilities for many readers who will, no doubt, want to try what is a new and highly efficient system of radio frequency amplification. The operation of the receiver is no more difficult than a standard Browning Drake or Marco Four, but unless care is taken in the layout, there will be a tendency to "motor boating" on the point of oscillation due to feed-back to the detector circuit from the screened grid amplifier. The receiver is not by any means expensive to construct, and is well worth consideration. This circuit has been presented in as simple a form as possible without any formidable obstacles, to initiate readers to the use of the new screened grid valves, and although the gain in amplification in this circuit is not all that is actually possible, yet the use of the screened grid valve increases the amplification voltage to the detector to at least twice the amount delivered by a 201A type valve. This means that the receiver is capable of a considerable increase in R.F. amplification, which means a corresponding increase in range. One enormous advantage is that stronger signals will be received without the fussiness of neutralisation or hair-splitting adjustments.



An Aerial Earth Counterpoise Combination

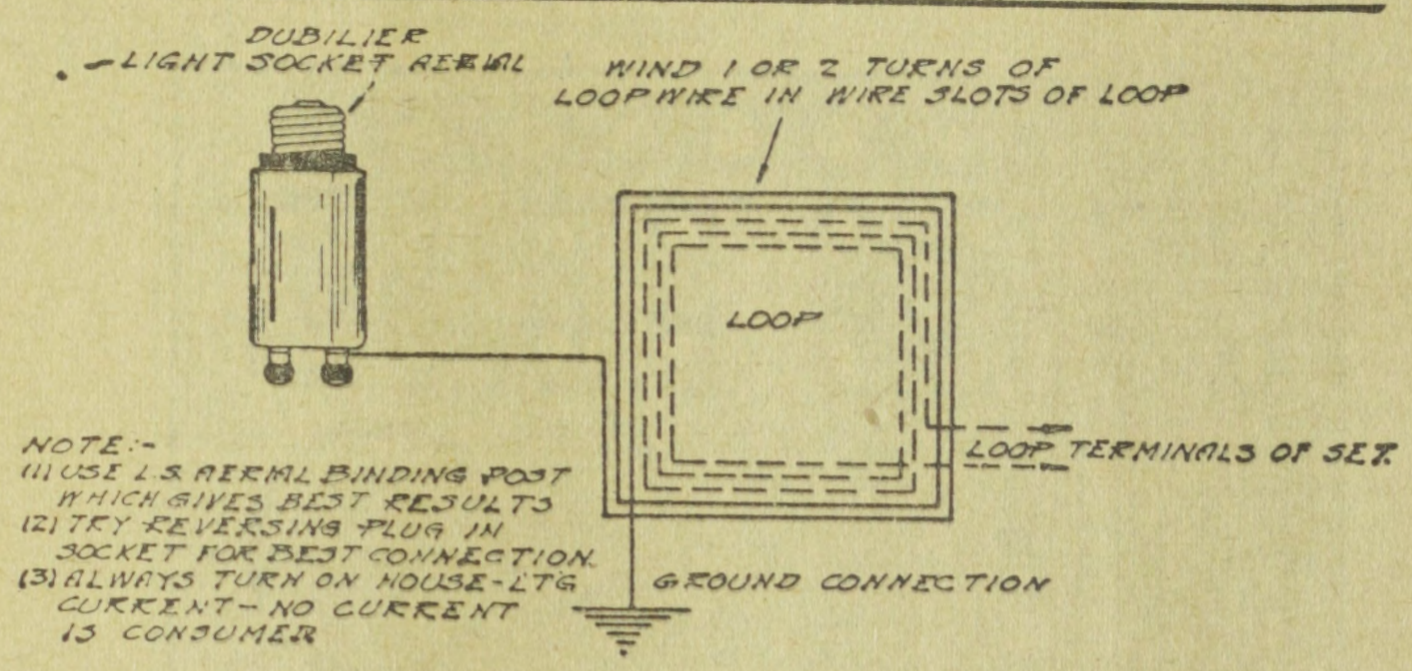
IN many cases a counterpoise is a decided advantage in reception as an aid to selectivity, and is often effective in elminating to a certain extent extraneous interference from power leaks and earth induction. One of our readers has kindly forwarded to us details of his aerial-earth-counterpoise arrangement, which gives him decidedly satisfactory results, and we are passing this on for the benefit of many readers who may be so interested. The only addition required to the normal equipment is two single pole double throw knife switches. The diagram is self explanatory.

Although our correspondent uses an unbalanced aerial, by taking his lead in from a point between the centre and the end of the aerial, yet this is not seriously detrimental. An unbalanced aerial is always liable to help in increasing the broadness of tuning of any receiver, but when used with a counterpoise, the effect is counteracted to a certain extent. The aerial used consists of a single wire 100ft. long and 30ft. high, and the counterpoise a single wire 60ft. long, insulated by stand-off insulators run along the outside of the wall of the house, at a distance 3ft. from the ground. The lead from the counterpoise is taken off vertically under the aerial lead in through the wall. The earth plate used with this combination is a sheet of galvanised roofing iron. Used in the country at Cessnock, the aerial-counterpoise system gave practically the same range as the aerial and earth, but with decidedly sweeter results. The counterpoise-earth system enabled the reception of Sydney station at full loud speaker strength throughout the day, and interstate stations at night time. By this arrangement the counterpoise acts as an aerial, although placed close to the ground. Using a counterpoise in this way as an aerial quite a large amount of static is eliminated without greatly impairing signal strength. A glance at the diagram will show the combinations possible. The main advantages of this system are: (1) The aerial and earth system is used for long distance reception such as 2YA, New Zealand, and interstate B class stations. (2) Aerial and counterpoise for interstate A class stations with an increase in quality and total elimination of interference from street power transformers and local generators, etc. Such an arrangement as this is particularly suitable for use in mining towns. (3) The counterpoise and earth combination gives good daylight reception of A class stations within a radius of 130 miles approximately at good loud speaker strength, with interstate stations at night time, and also permits reception through heavy static conditions which would normally be impossible on the main aerial. The receiver used on these combinations comprised a stage of R.F. detector and two audio stages, but excellent results and improvements will be noticed with almost any type of receiver. Country readers should find this arrangement well worth the erection. The two single pole, double throw switches are both mounted together on a common block and an ordinary lightning arrester spark gap may be placed between the terminals 1 and 3 permanently. It is a simple matter to change over to any combination required according to weather conditions and interference.

Hints on Layout

By the TECHNICAL EDITOR

When laying out component parts, for the construction of a receiver, it is obvious that the dimensions of certain components may not conform to certain requirements. For this reason, it is usually not possible to design a receiver on the drawing board, for the average constructor. A great deal of the layout has to be left to the discretion of the constructor himself. Nevertheless there are certain hard and fast rules, which should be followed on undertaking the construction of a receiving set. The first thing to consider is the principle of the circuit and to compare this electrically, with the requirements of the finished article. Usually, the theoretical diagram gives a good indication of the arrangements of the components, and indicates the relative positions. Assuming that all the parts are on hand, it is necessary first to decide which components are to be mounted on the front panel. Modern practice emphasizes the necessity for a minimum of controls. Nowadays, one does not literally "plaster" the panel with unsightly and unnecessary knobs and dials, as was the tendency in the earlier days. It is very rarely that one finds more than three main controls, actuating the tuning. There are, of course, necessary additions in the form of inconspicuous battery switches and jacks, but these are not disfiguring to any degree. In most cases, rheostat controls may be obviated owing to the more convenient use of filament ballasting resistances incorporated in the receiver itself. The idea should be to keep the panel as clear as possible, and to keep the dials fairly well spaced. If possible, avoid the fixing of components to the back of the panel where an unsightly screw head will protrude on the front, Keep the main dials in line, even though the circuit arrangement does not always call for symmetry. In some cases, it will be found that a symmetrical layout will result in a sacrifice of efficiency, but this is very rare, and is often an indication of a well-designed set, owing to the unbalanced control arrangement. Unless it is absolutely necessary to cramp the components, avoid this feature unless compactness is imperative. Crowding means that the wiring will become difficult, and it often happens that a few additions may be necessary after the general design is fixed. Behind the panel a uniform arrangement will look well in a simple set, although a multi-valve receiver looks better with the components grouped. Many parts which are electrically related to each other may be assembled in quite a small space, thus keeping leads as short as possible. Valve sockets and their associated filament resistors may not fall in line along the baseboard, but a symmetrical out of line arrangement may be adopted, with no loss of efficiency. Other components may fall into line with the valve sockets, but this is mainly determined by their relative size, purpose and circuit position. The wiring is a most important factor in the layout. If using a baseboard, keep all the leads down as close as possible to the board, and if using a sub-panel, run them as directly as possible immediately under the surface of the sub-panel. Often it is necessary to place a component at an angle so that one of its terminals is placed in such a position as to shorten the wiring. Mount such components as by-pass condensers and C batteries underneath the sub-panel. Always avoid inter-coupling between audio frequency transformers and between coils used for tuning or as radio frequency transformers. The same applies to radio frequency chokes. Finally, do not overlook the fact of the possibility of stray capacity coupling.



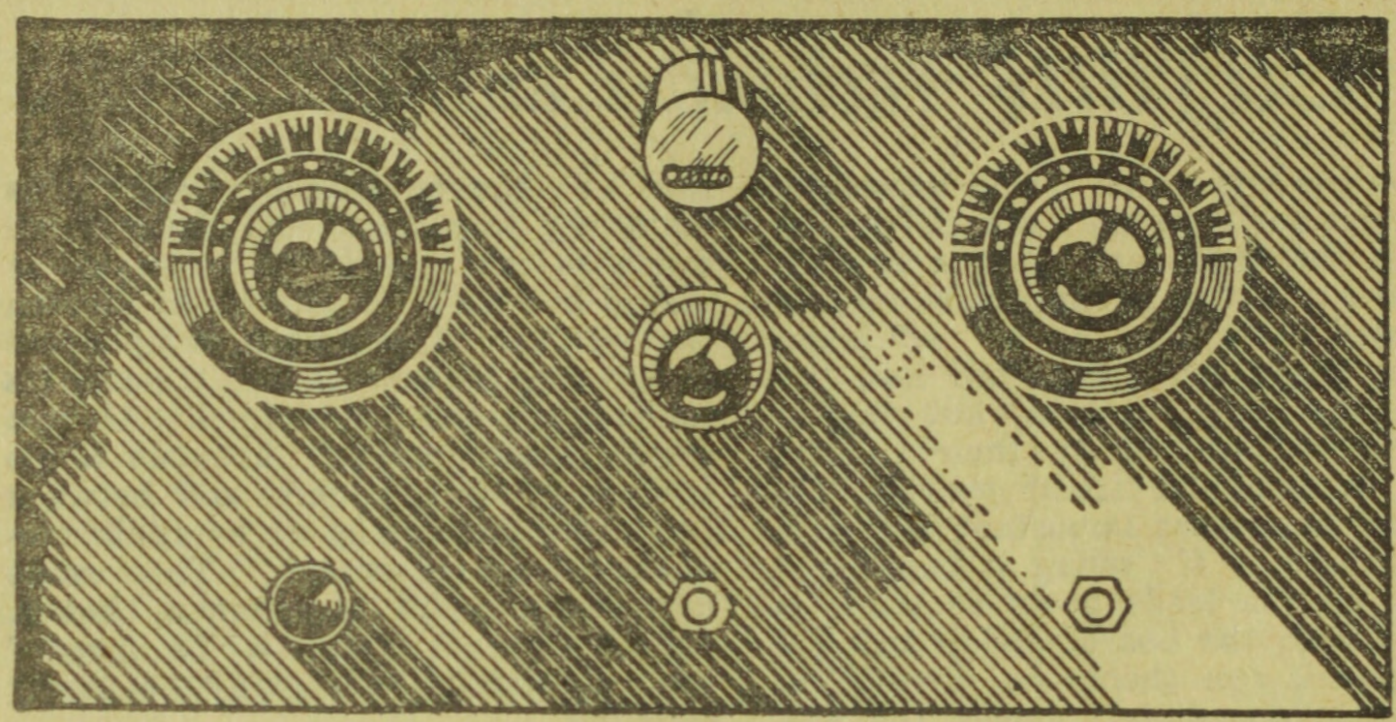
More Sensitivity and Selectivity from the Loop Receiver.

WHILE the loop type receiver has many features to recommend it in preference to the antenna-operated receiver, there are conditions under which the loop wave interceptor leaves much to be desired by way of sensitivity and selectivity. In the steel buildings of the city, the loop receiver is often employed in what amounts to a shielded cage, so that it is difficult to pick up signals. Again, the usual loop intercepts signals in either direction of a straight line, so that the utmost selectivity through directional reception is not achieved in practice.

In studying the operation of loop receivers, the Dubilier Research Laboratories have worked out a novel and simple means of improving the performance of such receivers. Referring to the accompanying diagram, it will be noted that a single turn or two of wire is placed on the usual loop, and connected with a Dubilier light socket aerial and ground. Otherwise, the loop remains connected as before. This arrangement provides an interesting combination of antenna, antenna coupler, and loop. The sensitivity of the set, due to increased pick-up of signals, is enormously increased, so that distant reception becomes possible irrespective of the steel framework or other adverse conditions in the city home. In the event that the loop is still picking up an appreciable signal strength from the direction opposite that of the desired signal, this arrangement will be found to change the pick-up pattern from the usual figure 8 or reception in both directions on a given line, to reception on one side only of a given line, thereby providing an added factor of selectivity.

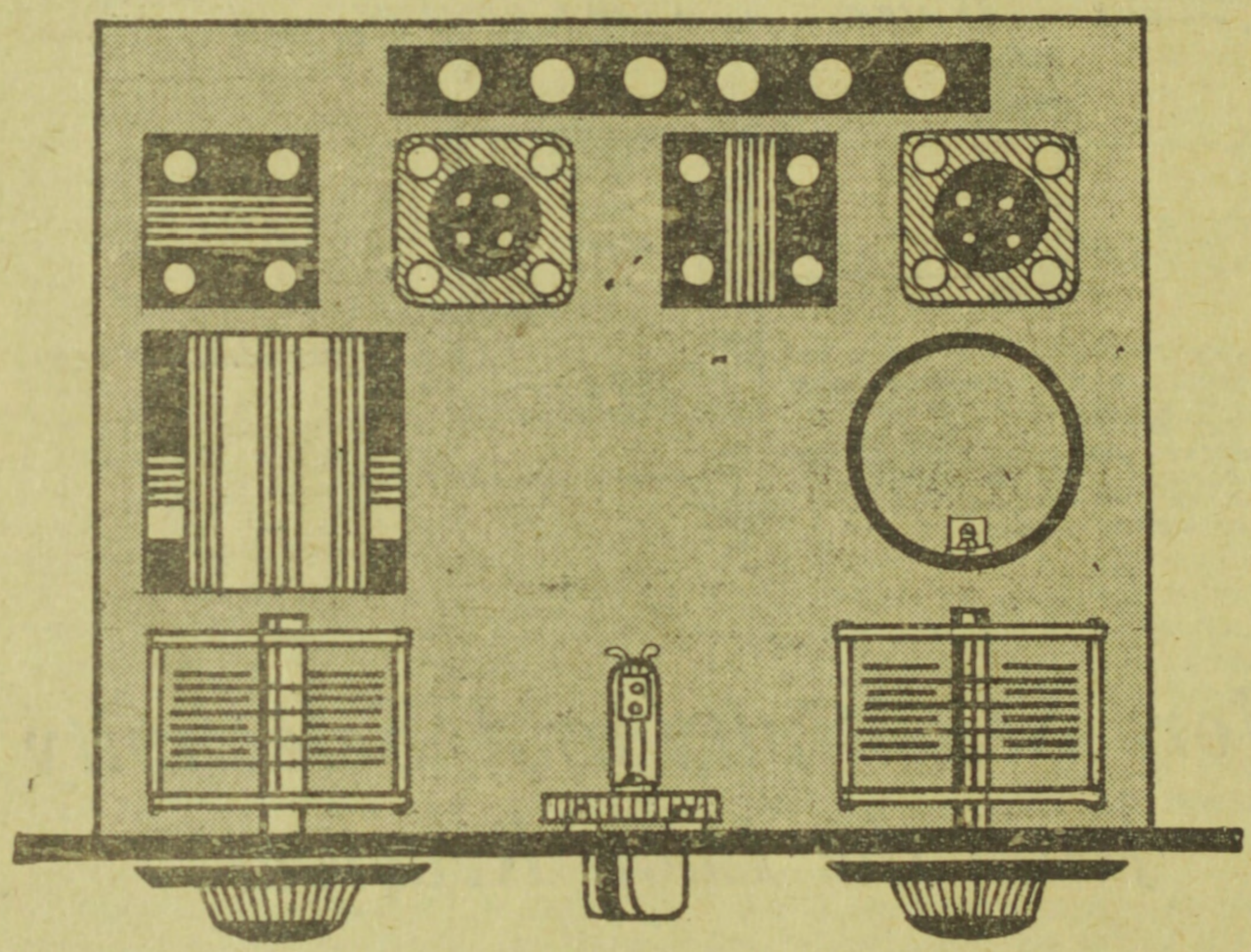
Interesting results await the application of the Dubilier light socket aerial in its present improved form, to the loop type receiver.

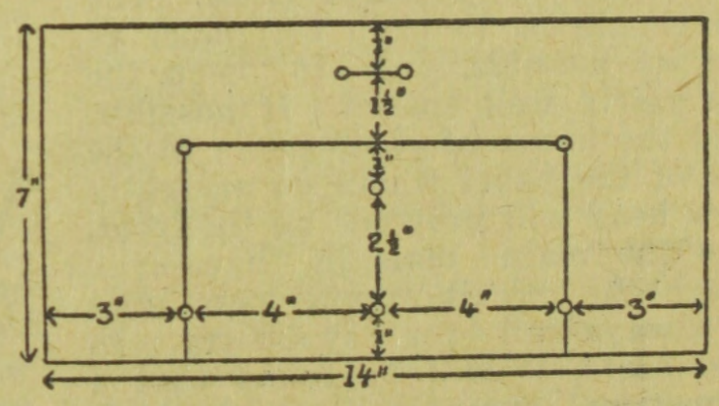
CORRE

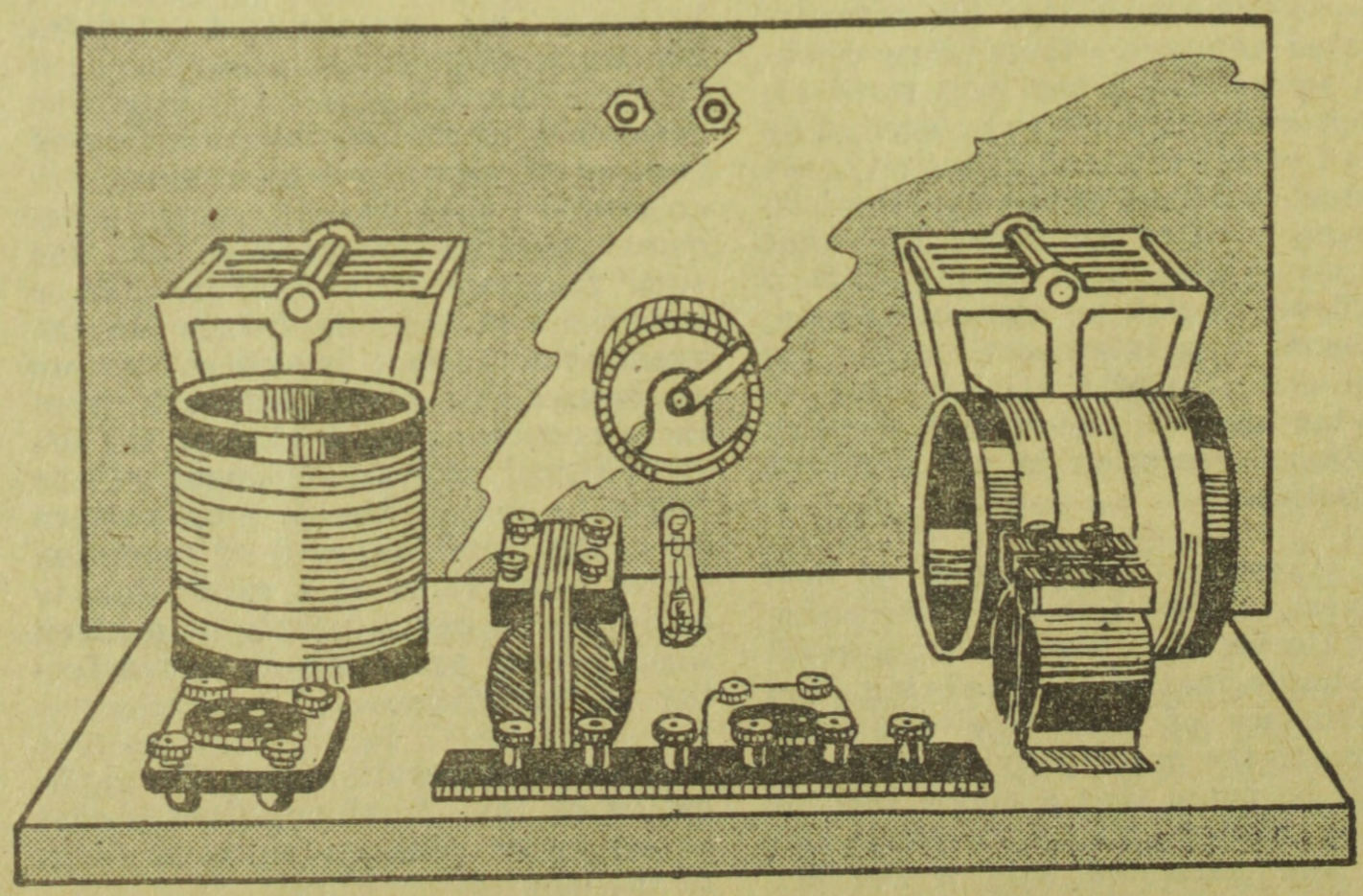


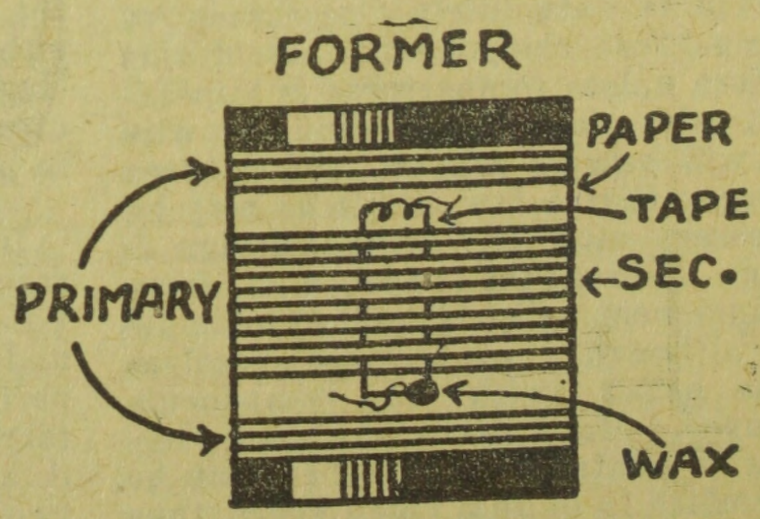
IN the re-publication of the constructional details of the popular Harkness Reflex Two Valve Receiver in the last issue of "Wireless Weekly," we regret that a serious error was made in the reprinting of the illustrations. Instead of the diagrams of the Harkness Two Valve Reflex, which previously appeared in the issue of September 16, 1927, the diagrams for the Harkness Three Valve Receiver were published. The error escaped notice in the proofs owing to an accident (a broken arm) occurring to the Technical Editor a few days before publication.

We reprint, therefore, on this and the opposite page the correct diagrams which should have accompanied the article printed last week.









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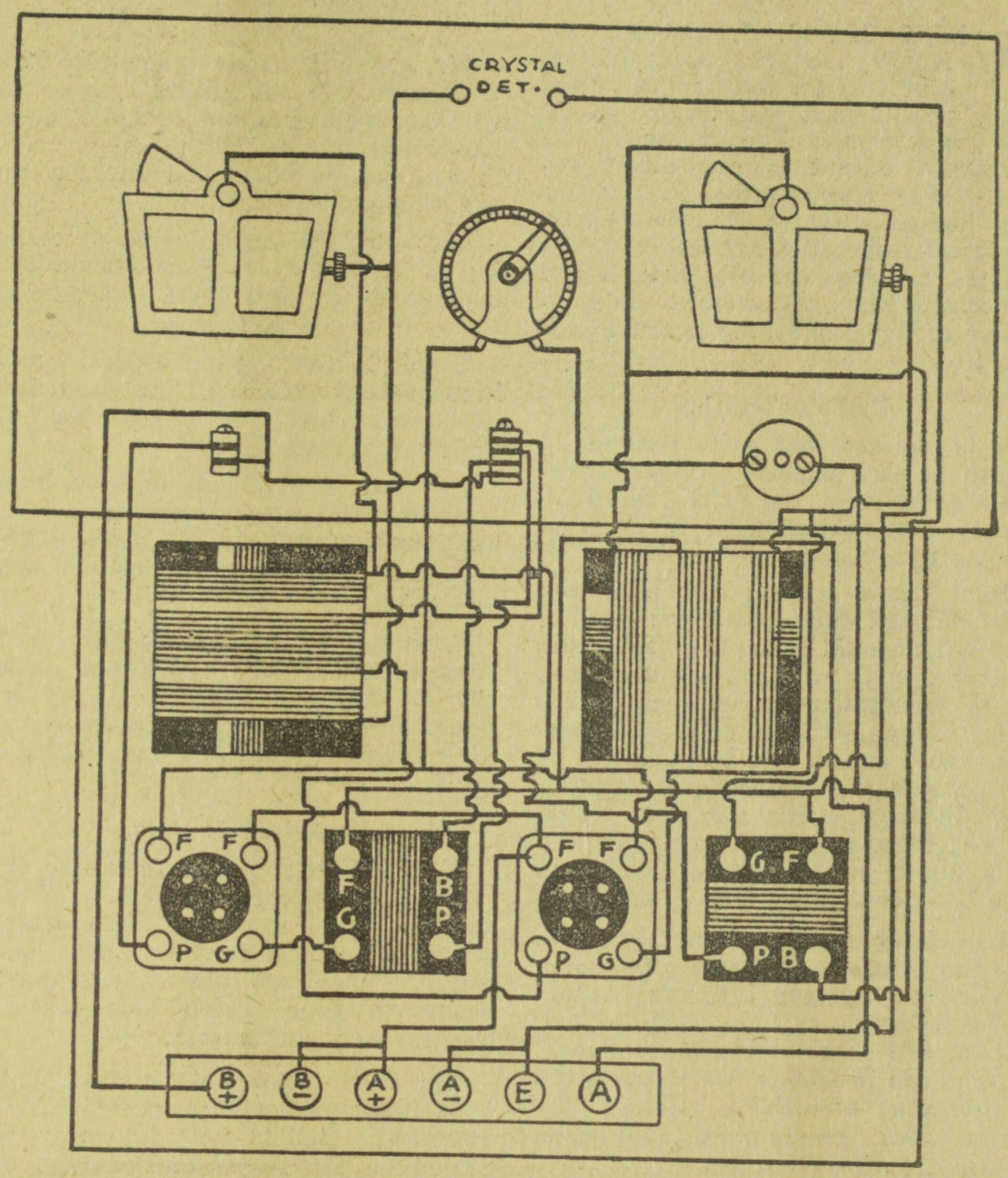
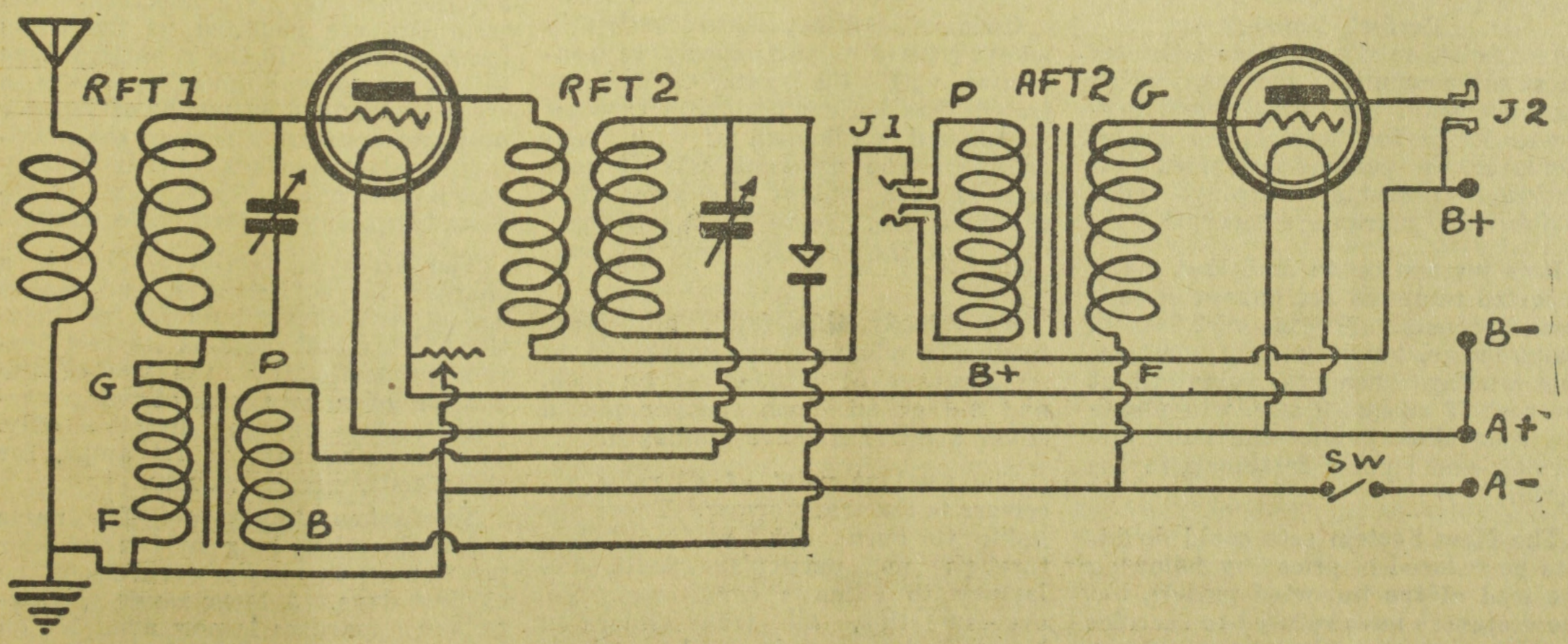
LIST OF PARTS FOR THE HARKNESS REFLEX.

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

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

- 1 Dilecto Formica or Hard Rubber Panel, 14 x 7 x 3-16in.
- 2 .0005 Advance or Emmco Variable Condensers.
- 1 30 ohm. Rheostat.
- 1 Double Circuit Jack.
- 1 Single Circuit Jack.
- 1 Crystal Detector (or stabilised carborundum detector).
- 1 Battery Switch.
- 1 5 to 1 Ratio Audio Frequency Transformer.
- 1 3½ to 1 Ratio Audio Frequency Transformer.
- 2 Formers, 3 x 3 in. long.
- 1 Terminal Board.
- ½ lb. 24 D.C.C. Wire.
- 1 Baseboard, 12 x 9 x ¾.
- 16-g. Tinned Copper Wire, Screws, etc.





With the Traders

WHEN Mr. J. I. Carroll, the N.S.W. manager, made his recent foreign tour he inspected every possible set and studied every new invention. The present unparalleled output is one direct result. The New System sets, from the humble 3-valve to the superb electrically-operated aristocrat of receivers, embrace the best British and American ideas, fashioned into a frame of flawless strength and amazing life.

Radio's Zenith.

It is claimed that radio reaches its zenith in each superb receiver, offering guaranteed daylight reception and an astonishing night range from Auckland to Adelaide.

Dual drum control abolishes the old-fashioned dials, preserves the full clarity and tonal richness of the finest receiver, and retains all overtones while eliminating interference. Yet it is so simple that a child can operate it and obtain the full benefits of its extremely high degree of selectivity. In short, radio has been transformed from a highly technical hobby to a family acquisition, and the sets can be operated on indoor aerials.

Especially suitable and attractive are the exquisite full size cabinets in which New System sets are housed. These cabinets can be made to any period, and some of the most perfect in type are in Queen Anne, Louis the Fourteenth and Early Italian designs. Even the standard table model charms by its loveliness.

Thus the designer has succeeded in producing cabinets which are an ornament to the most tastefully furnished living room.

Perfect Finish.

The finish on the cabinets is in the latest nitro-cellulose lacquer, which does not stain nor crack and preserves its perfect surface for years. Moreover, the genuine laminated construction prevents warping, adds variety and guarantees strength.

It is interesting to note that many imported receivers are housed in very small cabinets. These cost less to manufacture, but it is very questionable whether cheapness, obtained at the cost of adequate size, will please the Australian public—the most discerning and rightly fastidious in the world.

The New System sets could doubtless be reduced in price by following the lead of the imported models, but the designers have refused to sacrifice anything in size or beauty.

Why Australian-made?

Mr. Carroll's tour convinced him that no single set in America or on the Continent could adequately meet Australian needs. Many popular sets in America would not be tolerated in the Commonwealth.

Secondly, the high tariff—amounting to £64 in every £100—made the inadequate foreign sets extremely costly into the bargain.

Thirdly, the geographical and broadcasting conditions in Australia effectively ruled out nine-tenths of the foreign-made article.

Fourthly, a combination in a New System receiver of the best ideas in each foreign set studied gave a result far exceeding the merits of any one set.

Fifthly, the New System idea of an Australian set for Australians could only be followed by building an entirely new receiver at a price suited to Australia and Australian conditions.

Electrical Designs.

All the New System sets can be obtained in electrical models. These electrical sets are true light socket receivers which banish acids and water. They are not of the usual electrical type, which use trickle charges and eliminators.

The whole electrical apparatus is built in as part of the receiver. New electrical models will shortly be placed on the Australian market by this enterprising company, and some of these will contain the new A.C. tube.

Special Points.

Owing to flimsy construction in many receivers, particularly in connection with the gang condensers, trouble has been experienced through mechanical breakdown of the condensers. The different sets of condensers get out of alignment after continual use, due to the small shaft used and the flimsy bearings employed.

To remedy this fault, all New System condensers are machined to an accuracy of 1-10,000 of an inch, and 3-8 of an inch copper plated silver steel shafts are employed.

The weakest point of all radio receivers is the transformer. These are liable to burn out at any time through no particular fault, due largely to climatic conditions. To overcome this, all transformers in New System receivers have been specially designed to cope with this, and are mounted in removable clip-in cases, so that in the event of a breakdown, they can be replaced in a few seconds without loss of time.

A special "phasing" tube is employed which will automatically compensate against change in efficiency over the wave-length band. This makes the set very easy to handle.

Every part which goes into the receiver is specially designed and made for the job. Once screwed in it becomes part of chassis. The chassis itself is pressed at a single blow from a sheet of aluminium, ensuring absolute standardisation.

Audio transformers are specially designed and the cases are of sufficient size to avoid any possibility of saturation. All transformers, including the radio frequency couplers, have their primaries designed for the valves used, thus securing maximum amplification.

Visitors to the New System stand or to 280 Castlereagh-street, Sydney, will find a score of other points of interest in this 1928 model receiver.

VARTA BATTERIES AND TELEFUNKEN ACCESSORIES.

A very comprehensive range of new batteries under the name of VARTA have made their appearance on the market. They are of extremely robust construction, and are supplied in glass containers both for the A. and B. type. All types are available with or without carrying cases. The carrying cases are supplied with a strong handle for easy transportation and terminals are mounted on the cases for connection. In the B battery type a variation of voltage of two volts in steps is provided by means of Wonder plug tappings from zero to the maximum voltage. This is particularly useful where a critical value is required in many modern radio circuits.

The Simplex Rectifier.—This is a charger for A batteries, and makes use of a Wehnelt bulb for rectification. This bulb obtains its rectification properties by the use of the heating of a rare gas, allowing current to flow in one direction only. The charging rate is 1.4 amps. for three cells, simultaneously.

Telefunken Apparatus.—The name Telefunken has long held a premier position in the radio world from the earliest days. A large range of Telefunken apparatus is now available on the market. This includes Arcophon

and Arcolette loud speakers, inter-valve transformers, headphones and a complete range of Telefunken valves for every purpose. The latter include all general purpose valves, double grid valves, power valves, transmitting, rectifying and A.C. valves. A special power amplifier valve for Panatrope work is also available. The price of all these accessories is in each case very moderate, and they are obtainable from the Electric Supplies and Engineering Ltd., 187 Clarence Street, Sydney.

THE NEW OSRAM VALVES.

A new range of Osram Valves has recently been put on the Australasian market by the British General Electric Co., Ltd.

This new range comprises valves for 2, 4 and 6 volt accumulators, radio, detector and first stage audio and power. In the case of the 2 volt range a super-power valve is included. Super-power valves for 4 and 6 volt accumulators are following shortly.

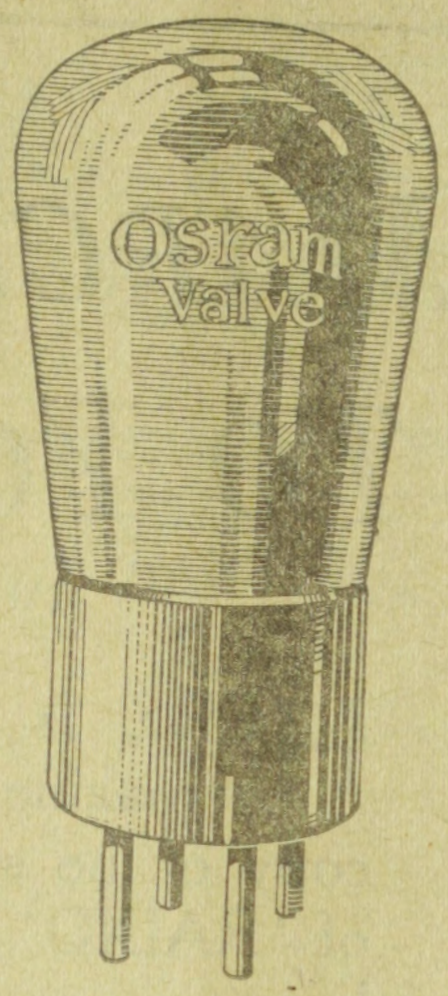
The outstanding features of these New Osram Valves are:—

(1) Long life, due to the New Osram Filament, which is of vastly improved design, and which is capable of emitting an internal stream of electrons operating at a very low temperature.

(2) Non-Microphonic.

(3) Less than 10 per cent. variation from published characteristics, doing away with the necessity of matching valves for special circuits.

(4) Robustness. The New Osram Range are designed to withstand shocks without risk of the filament being damaged.



The New "Osram" Range of Valves.

Position in Receiver.	2 Volts.	4 Volts.	6 Volts.	Price.
Resistance, Capacity, Amplifying and Detector ...	DEH 210	DEH 410	DEH 610	13/6
R.F. Amplifier and Detector	HL 210	—	—	13/6
General Purpose and L.F. Amplifying	DEL 210	DEL 410	DEL 610	13/6
L.F. Power Amplifying	DEP 215	DEP 410	DEP 610	15/-
Last Stage, Super Power Amplifying	DEP 240			
R.F. Amplifying Screened-Grid	—	—	S 625	30/-
A.C. R.F. Valve	—	KH 1	—	35/-
A.C. L.F. and Detector ...	—	KL 1	—	35/-

New Osram Nomenclature.

One of the principal difficulties met with by the potential purchaser of valves in the past has been to distinguish the purposes for which each valve was intended by reference to the titles alone.

The new Osram nomenclature simplifies this considerably.

"L" indicates a valve of moderately low "Impedance," suitable for transformer-coupled audio circuits, detectors, and stabilised R.F. amplifiers.

"H" indicates a valve having a high "Amplification Factor," suitable for resistance-capacity amplifiers, anode-bend detectors, and certain R.F. amplifying circuits.

"P" indicates a Power Valve, suitable for Loud Speaker operation.

"H.L." indicates a valve suitable for R.F. amplifiers, where a circuit with some form of stabilising or damping is employed, also as a detector, and for choke-coupled Audio Amplifiers.

The figures after the letters indicate Filament voltage and consumption.

As an example:—

DEL 610 is a Dull Emitter 6 Volt general purpose valve, consuming 10 amp.

These New Osram Valves are the result of Experimental Research at the G.E.C. Research Laboratories in England, and are British-made throughout at the Osram Valve Works, London.

Obtainable in UX or English Base.

Book Review

EVEN better than the last year's production is the A.W.A. Radio Guide 1928, which contains 216 pages and innumerable illustrations. The year's advance in both Commercial Wireless services, research work, receiver development, and a design of wireless parts, is splendidly laid out in the Guide for both the technical and non-technical to examine. Quite apart from the comprehensive catalogue of parts and receivers handled by Amalgamated Wireless (A'sia), Ltd. (and this in itself is something that no radio enthusiast should be without) the book itself is a remarkably complete record of wireless activities in every field and containing in countless instances the answers to questions which often puzzle the radio user. Without direct reference to this work, it would be almost impossible for the average lay-man to realise the extent to which Wireless Commercial Services in Australia have been developed.

The publication of a newspaper on board ships, the describing of wireless equipment used by the Police Department in New South Wales and Victoria, the organisation of Empire Broadcasting programmes in conjunction with 2FC, short wave research work, radio in hospitals, etc., all of these have been given individual attention in the A.W.A. Radio Guide 1928. The technical section, which might be divided into two portions, sub-technical and technical, is remarkably well defined. The first section gives a host of handy hints and general information for the non-technical person. For the home constructor, the second section features a young army of circuits, all of which may be recommended for both short wave reception and broadcast receiving purposes. There are pages of formulae, wireless symbols, technical values, lists of abbreviations, wiring tables, valve characteristics, and so on, which are of incalculable value to wireless enthusiasts. For short wave enthusiasts there are lists of world-wide short wave broadcast stations, and a full list of the Australian and New Zealand transmitting licences. The broadcast fan is well catered for in this direction by the inclusion of a full list of Australasian broadcasting stations, and the principal broadcasting stations throughout the world. In each instance the wavelength and power being clearly shown.

All summed up the A.W.A. Radio Guide, 1928, which is priced at 1/6, and is published by Amalgamated Wireless (A'sia), Ltd., represents honest value for the money. It is a book which we, ourselves, find of distinct value for reference purposes, and one which we can recommend to anybody whether his interest in wireless is superficial or otherwise.

HAVE THE MARCH 'RADIO' DELIVERED TO YOUR DOOR

HERE is your opportunity of making sure of receiving a copy of the special exhibition issue of 'RADIO' delivered free to your home.

You should not miss this issue even if you do not get 'RADIO' regularly, for it contains, in addition to the two leading technical articles of the year, short stories of merit, humorous articles illustrated by the best artists and numerous other features, both important and interesting to radio enthusiasts.

See Also Subscription Form

PLEASE send post free to the following address, one copy of the Special Exhibition Number of "RADIO," for March 21, 1928, for which I enclose 1/1 in stamps.*

Name . . . . . .

Address . . . . . .

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*Note.—This places me under no obligation whatever to subscribe regularly to "Radio."

Fill in, clip out, and forward this coupon to the "Circulation Department, Wireless Newspapers, Ltd., 51 Castlereagh-street, Sydney," enclosing 1/1 in stamps. A copy of the Special MARCH Issue of "Radio" will be posted to you by return mail.

BROADCASTING PROGRAMMES for the COMING WEEK

2FC—Coming Features of the Week

Talks

FRIDAY, 13th APRIL:
7.40 p.m.—W. F. KAY—the first of a new series of Theatrical Talks—"A Stranded Actor."
7.45 p.m.—Interview with HARRIET BENNET, by Miss Goodie Reeve.
SATURDAY, 14th APRIL:
11.5 a.m.—J. G. LOCKLEY: "Gardening."
7.50 p.m.—REV. F. H. RAWARD: "Let's Go Round the World."

Church Services

SUNDAY, 15th APRIL:
11 a.m.—St. Mary's Cathedral.
7.15 p.m.—Lyceum Methodist Church.
MONDAY, 16th APRIL:
7.48 p.m.—S. E. NAPIER: "The Great Barrier Reef."
8.30 p.m.—HENRY SILVER. "Graphology."
4 p.m.—"DELISSE": Topical subjects.
TUESDAY, 17th APRIL:
4 p.m.—"DELISSE": Topical subjects.
WEDNESDAY, 18th APRIL:
7.45 p.m.—PROF. MILLS: "Economics."
THURSDAY, 19th APRIL:
4 p.m.—"DELISSE": Topical subjects.

Music, &c.

FRIDAY, 13th APRIL:
9.30 p.m.—2FC STUDIO ORCHESTRA.
9.53 p.m.—MADAME EMILY MARKS, soprano.
3.30 p.m.—Recital of modern music from King's Hall—Cyril Monk, Moore McMahon, violinists; Wilfred Arlom, flute.
SATURDAY, 14th APRIL:
8.5 p.m.—CONSERVATORIUM ORCHESTRA.
Pianoforte solos by IRIS de CAIROS REGO.
SUNDAY, 15th APRIL:
3.5 p.m.—Mr. and Mrs. H. Faulkner (BLIND ARTISTS): Vocal solos with organ accompaniment.
3.30 p.m.—MANLY BAND.
9.30 p.m.—Excerpts from "PAGLIACCI."
(Norman Janson, baritone; Charles Stephens, tenor; Gilda Pattini, soprano.)
HENRY PENN, pianoforte recital.
MONDAY, 16th APRIL:
9 p.m.—2FC STUDIO ORCHESTRA.
8.15 p.m.—SIGNOR EUBALDO RUSSO and LINDA BRADFORD: Duets.
TUESDAY, 17th APRIL:
8.12 p.m.—N.S.W. TRAMWAY BAND.
3.5 p.m.—ORGAN RECITAL BY CHRISTIAN HELLEMANN.
9.10 p.m.—LIONEL LUNT, English baritone.
WEDNESDAY, 18th APRIL:
3.5 p.m.—Annual presentation of medals (Victoria College of Music, London) and accompanying musical programme.
8 p.m.—Prologue from CAPITOL THEATRE.
8.15 p.m.—EILEEN BOYD, contralto.
THURSDAY, 19th APRIL:
8.10 p.m.—2FC STUDIO ORCHESTRA.
8.30 p.m.—HENRY PENN, pianoforte recital.

Drama, Comedy, &c.

FRIDAY, 13th APRIL:
8 p.m.—First Act of "ROSE MARIE."
SATURDAY, 14th APRIL:
9.10 p.m.—"The Two Magpies."
SUNDAY, 15th APRIL:
6.5 p.m.—"The Sentimentalists." (Produced by R. D. Maunsell, assisted by Paula Nash and Bryson Taylor.)
MONDAY, 16th APRIL:
8.40 p.m.—JOE CAHILL, Irish humorist.
TUESDAY, 17th APRIL:
8.25 p.m.—CHARLES O'MARA, entertainer.
WEDNESDAY, 18th APRIL:
9.5 p.m.—H. W. VARNA COMPANY: "Sherlock Holmes."
SPECIAL NOTE: The Great Public Schools' Regatta will be described on the afternoons of Wednesday, 18th, and Saturday, 21st April.

Friday, April 13

2FC, SYDNEY.

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

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

MORNING SESSION.
10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.45 a.m.—A talk by "Delisse."
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.
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" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby Wireless News.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Agnes McDiarmid, soprano.

AFTERNOON SESSION.
3 p.m.—"Big Ben" and announcements.
3.3 p.m.—From the King's Hall, on the occasion of the First Annual Conference of the Music Teachers of New South Wales:
Musical Lecture: "The Trend of Modern Music."
Lecturers: Wilfred Arlom, Cyril Monk.
Violinist: Moore MacMahon.
Pianist: Wilfred Arlom.
3.30 p.m.—From Petersham Congregational Church: An Organ Recital by Ambrose Gibb.
3.45 p.m.—From the Studio:
Alice Pomroy, soprano.
3.48 p.m.—Popular records.
3.56 p.m.—Hilda Nelson, mezzo.
4 p.m.—"Big Ben."
From Petersham Congregational Church:
Further items from Organ Recital by Ambrose Gibbs.
4.15 p.m.—From the Studio:
Alice Pomroy, soprano.
4.20 p.m.—From Petersham Congregational Church: Further items from Organ Recital by Ambrose Gibbs.
4.45 p.m.—From the Studio:
Stock Exchange, third call.
4.47 p.m.—Hilda Nelson, mezzo.
4.50 p.m.—Studio music.
5 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.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news, told by the 2FC Racing Commissioner.

7.10 p.m.—Dalgety's Market Reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news session.

NIGHT SESSION.

7.38 p.m.—Programme announcements.
7.40 p.m.—W. F. Kay in a new series of Theatrical talks:
No. I. "A Stranded Actor."
7.52 p.m.—Reginald Hayward, baritone.
8 p.m.—"Big Ben."
From Her Majesty's Theatre, Sydney (by permission of J. C. Williamson, Ltd), on the occasion of the return to Sydney of the Popular Musical Play,

"ROSE MARIE,"

Featuring Harriet Bennett and Frederick Bentley. The First Act will be broadcast.
Cast:
Sergeant Malone, James Hughs.
Lady Jane, Yvonne Banvard.
Black Eagle, George Bryant.
Emile le Flamme, Lou Vernon.
Edward Hawley, Noel Allan.
Wanda, Stephanie Deste.
Hard Boiled Herman, Frederick Bentley.
Jim Kenyon, Reginald Dandy.
Rose Marie La Flamme, Hariet Bennet.
Ethel Brander, Mabel Lambeth.
Scenes: Act I.
1. Lady Jane's Hotel, Fond du Lac, Saskatchewan, Canada.
2. Impression—a Campfire.
3. Black Eagle's Cabin—One hour later.
4. Impression—The Campfire again.
5. Totem Pole Lodge near Kootenay Pass in the Canadian Rockies. A few weeks later.
Musical Numbers:
Introduction.
Song, "Hard-boiled Herman," Frederick Bentley and Chorus.
Song, "Rose Marie," Reginald Dandy and James Hughes.
Song, "The Mounties," James Hughes and Chorus.
Song, "Lak Jeem," Harriet Bennet and Chorus.
Duet, "Indian Love Call," Harriet Bennet and Reginald Dandy.
Song, "Pretty Things," Harriet Bennet and Chorus.
Ballet Eccentric, Frederic Bentley and Chorus.
Duet, "Why Shouldn't We." Yvonne Benvard and Frederick Bentley.
Song, "Totem Tom Tom," Stephanie Deste and Chorus.
Finale.
9.40 p.m.—From the Studio:
The 2FC Studio Orchestra, conducted by Horace Keats:
(a) Overture, "Maid of Orleans" (Rawlinson).
(b) "Gavotte Caprice" (Bortiewiez).
9.53 p.m.—Mde. Emily Marks, soprano. (With orchestral accompaniment.)
10 p.m.—"Big Ben."
The 2FC Studio Orchestra:
(a) Suite, "Le Lac des Cygnes" (Tschaikowsky).
(b) "Rhapsodia Russe" (arr. Nussbaum).
10.16 p.m.—Reginald Hayward, baritone. (With orchestral accompaniment.)
10.24 p.m.—The 2FC Studio Orchestra: "A Summer's Morn" (Haines).
10.30 p.m.—Late weather forecast.
10.31 p.m.—The 2FC Studio Orchestra:
(a) "Peer Gynt Suite" (Grieg).
(b) Selection, "Miss Hook of Holland" (Rubens).
10.57 p.m.—To-morrow's programme and late news.
11 p.m.—"Big Ben."
From the Ambassadors:
The Ambassadors Dance Orchestra, conducted by Al. Hammet.
11.45 p.m.—National Anthem.

2BL, SYDNEY.

Broadcaster's Ltd.

Wave Length, 353 Metres.

FRIDAY, 13th APRIL, 1928.

EARLY MORNING SESSION.
8 a.m. to 9 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and chimes.
Musical programme from Studio.
11 a.m.—G.P.O. Clock and chimes.
Talk on "Basket Ball" by Miss Gwen. Varley, Broadcasters' Women's Sports Authority.
Social Notes. Replies to correspondents.
Talk on "Feeding the Family," 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.
12.8 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, and Produce Market report.
12.22 p.m.—Forage Market report.
12.24 p.m.—Fish Market report.
12.26 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.
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."
3 p.m.—G.P.O. Clock and chimes.
Talk by Mrs. Jordan.
3.15 p.m.—Civil Service Stores Trio.
3.30 p.m.—Talk on "Sweets" by Miss Kathleen Jordan.
4 p.m.—G.P.O. Clock and chimes.
Civil Service Stores Trio.
4.15 p.m.—Talk on "The Women of Ancient Rome."
4.35 p.m.—Pianoforte Recital from the Studio.
4.50 p.m.—News from the "Sun."
4.57 p.m.—Features of evening's programme.
4.59 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.

SPECIAL COUNTRY SESSION.

6.30 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast, by courtesy of Government Meteorologist.
Producers' Distributing Society's Fruit and Vegetable Market report.
Stock Exchange report.
Grain and Fodder report ("Sun").
Dairy Produce report ("Sun").
N.R.M.A. report.
6.45 p.m.—Country news from the "Sun."
7 p.m.—G.P.O. Clock and chimes.
Gulbransen Dinner Music.
7.30 p.m.—Talk on "Gardening Science" by Mr. Cooper, Park Superintendent, City Council.

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.
Broadcasters' Topical Chorus.
8.3 p.m.—The Rose Bay Winter Garden Orchestra, broadcast from the Studio, assisted by the following vocalists:—Mr. Stanley R. Catlett (tenor), Miss Thelma Houston (contralto), Miss Dulcie Starkey (soprano).
The Sporting Editor of the "Sun" will talk on the prospects of Saturday's racing.
10.15 p.m.—Romano's Restaurant Dance Orchastra, under the direction of Mr. Merv. Lyons. During intervals between dances, "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

2GB, SYDNEY

Theosophical Broadcasting Service.

Wave Length, 316 Metres.

FRIDAY, 13th APRIL, 1928.

MORNING SESSION.

10 a.m.—Music.
10.10 a.m.—Address: Alfred E. Bennett.
10.20 a.m.—Music.
10.30 a.m.—Women's Session by Miss Helen J. Beegling.
11 a.m.—Close down.

AFTERNOON SESSION.

2 p.m.—Music.
2.12 p.m.—Address.
2.22 p.m.—Music.
2.37 p.m.—Address.
3 p.m.—Close down.

EVENING SESSION.

5.30 p.m.—Children's Session.
7 p.m.—Stock and Market reports by New Zealand Loan and Mercantile Agency.
7.15 p.m.—Music.
7.30 p.m.—Address by Arthur Beaufoy.
7.45 p.m.—Music.
8 p.m.—Town Hall Chimes and Opening Chorus.
8.2 p.m.—Violin Solos by Mr. Leonard Brewer.
8.8 p.m.—Songs by Mr. Will Stelzer.
8.15 p.m.—Address.
8.30 p.m.—Songs by Miss Gwladys Edwards.
8.37 p.m.—Flute solos by Mr. Leslie Sproule.
8.45 p.m.—Songs by Madame Chaubert.
8.52 p.m.—Songs by Mr. Will Stelzer.
9 p.m.—Humorous recital by Mr. Heath Burdock.
9.20 p.m.—Pianoforte solos by Miss Mollie Jones.
9.27 p.m.—Songs by Miss Gwladys Edwards.
9.34 p.m.—Violin solos by Mr. Leonard Brewer.
9.43 p.m.—Songs by Madame Chaubert.
9.50 p.m.—Flute solos by Mr. Leslie Sproule.
10 p.m.—Close down.

2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

FRIDAY, 13th APRIL, 1928.

EVENING SESSION.

7 p.m.—Studio items.
7.10 p.m.—Where to Go Session.
7.15 p.m.—Dinner music.
7.45 p.m.—Instrumental and Vocal selections.
8 p.m.—News items and shipping intelligence.
8.20 p.m.—Request numbers.
8.45 p.m.—Weather forecast.
8.50 p.m.—Dance music by courtesy of Morley, Johnson, Ltd.
9.20 p.m.—Request numbers.
9.35 p.m.—Dance music.
9.55 p.m.—Announcements.
10 p.m.—Close down.

3LO, MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

FRIDAY, 13th APRIL, 1928.

EARLY MORNING SESSION.

"Herald" Breakfast Hour."
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS of how to create creature comforts with a minimum of cash.

SEA PIE.

1-lb. steak (stewing), 1 teaspoon salt, little pepper, 1 turnip, 1 pint water, 1 carrot, 1 small onion, suet crust (½-lb. flour ¼-lb. suet, ½-teaspoon baking powder, pinch salt, ¼-pint water).

Method: (1) Cut meat in ½in. dice; (2) put into the saucepan with water and salt; (3) while coming to the boil, peel vegetables; (4) cut them into dice, then add them, simmer 1 hour; (5) make suet crust; (6) roll it in a round to fit in saucepan; (7) half-an-hour before dinner, put suet crust on top, and allow tosoak gently with lid on; (8) have ready hot dish; (9) arrange it on the dish with meat and gravy underneath and crust on top.

11.2 p.m.—THE GLORY OF THE GARDEN.
Good gardening means doing the right thing at the right time, and putting the right plants in the right position. This is the terminal month of Autumn, and, if not already done, sowing should not be further delayed, as the cold weather which will soon be upon us will retard their growth.
Dianthus, Polyanthus, Primrose, Stock, Sweet Peas, in fact, any of these varieties will do well if sown in a warm position and before the weather becomes too cold. Keep your garden gay with flagrant flowers.

11.5 a.m.—VEGETARIAN COOKING:
Matron Bartlett will give hints on the cooking of vegetable dishes.

11.20 a.m.—Musical interlude.

11.25 a.m.—"AU FAIT":
"Fashions Fancies."

11.40 a.m.—Musical interlude.

11.45 a.m.—Under the auspices of the Public Health Department, DR. PAUL ROWAN will speak on
"Clean food—the right of everybody."

MIDDAY NEWS SERVICE.

12 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. Reuter's and the Australian Press Association cables. British Official Wireless news from Rugby. "Argus" news service.

12.20 p.m.—BERTHA JORGENSEN'S QUARTETTE:
Magic Flute (Mozart).

12.30 p.m.—EILEEN CASTLES, soprano:
"Deli Vieui" (Mozart).
Selected.

12.37 p.m.—Stock Exchange information.

12.40 p.m.—DOROTHY ROXBURGH, Viola:
"Adagio" (Mozart).

12.47 p.m.—BERTHA JORGENSEN'S QUARTETTE:
"Cosi Fau Tutti" (Mozart).

1 p.m.—Melbourne Observatory Time Signal.

1.1 p.m.—DOLLY BURDETT, contralto:
"Voi Clu Sapate" (Mozart).
Selected.

1.8 p.m.—Meteorological information.
Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports.

FOUNDATIONS OF MUSIC.

1.15 p.m.—BERTHA JORGENSEN, violin, in a continuation of the works of Wieniawski:
"Polonaise Brilliante" (Wieniawski).

1.25 p.m.—EILEEN CASTLES:
"Porgi Amour" (Mozart).

1.32 p.m.—BERTHA JORGENSEN'S TRIO:
"Necken—Swedish Folk Song"—Somdby).

1.38 p.m.—DOLLY BURDETT, contralto:
"Lament of Isis" (Bantock).
"Hinden Song" (Bembery).

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:
Suite, "Summer Days" (Eric Coates).
1. "In a Country Lane."
2. "On the Edge of the Lake."
3. "At the Dance."

2.26 p.m.—FRANK AND FRANCIS LUIZ:
Steel Guitar, "Kawaihau Waltz."
Song, "Isles of Paradise.'
Duet, "Calm Hawaiian Seas."

2.37 p.m.—THE STATION ORCHESTRA:
Cobweb Castlel: "In the Owl's Turret" (Liza Lehman).
2. "Fly Away, Ladybird."
3. "By the Sundial."
4. "A Legend."
5. "Evensong."

2.50 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.):
"I'll Tell You Another."
Selected.

2.57 p.m.—THE STATION ORCHESTRA:
Selection, "Pagliacci" (Leoncavallo).
Selected.
INTERLUDE.

3.2 p.m.—FRANCES FRASER, Travels with Ulysses:
"Courage," he said, and pointed towards the land,
"This mounting wave will roll us shoreward soon.
"In the afternoon they come unto a land
"In which it seemed always afternoon."
This visit to the land of the Lotus-eaters is one of the incidents in the travels of Ulysses and his companions, who met with the most thrilling adventures and miraculous escapes.

3.17 p.m.—THE STATION ORCHESTRA:
"A Perfect Day" (Carrie Jacob Bond).
"Mighty Lak' a Rose" (Nevin).

3.24 p.m.—ROY GALLOWAY, Baritone (by permission of J. C. Williamson, Ltd.):
Selected.

ORGAN RECITAL.

3.30 p.m.—C. E. MONTEATH, F.R.C.O., A.R.C.M., Organist at St. Peter's Church.
Introduction to Act III., and Bridal Chorus from "Lohengrin."
"Minuet from Samson" (Handel).
Introduction, "Adagio" and "Allegro" from the 2nd Organ Sonata (Mendelssohn).

FROM THE STUDIO.

3.50 p.m.—THE STATION ORCHESTRA:
"Spanish Dance" (Moszkowski).
"Chanson Triste" (Tschaikowsky).

4 p.m.—JACK LUMSDAINE (The Radio Rascal), by permission of J. C. Williamson, Ltd.:
"That's a Good Girl."
"Thinking."

4.7 p.m.—HAROLD MOSCHETTI, tenor, sax.:
Selected.

4.14 p.m.—BERYL HAYDEN, Soubrette:
"Culled from the Comics."

4.20 p.m.—THE STATION ORCHESTRA:
Selection, "To-night's the Night" (Rubens).

4.30 p.m.—ROY GALLOWAY, Baritone:
Selected.

4.37 p.m.—THE STATION ORCHESTRA:
"Prelude" (Junefeldt).

4.40 p.m.—Weather forecast from Adelaide. Weather forecast for Mildura district.

4.41 p.m.—JACK LUMSDAINE, the Whispering Baritone:
"She's Just What the Doctor Ordered."
"I'd Climb the Highest Mountain."

4.48 p.m.—THE STATION ORCHESTRA:
Selections from Moszkowski.

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

5.15 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

6 p.m.—Answers to Letters and Birthday

6.40 p.m.—"BILLY BUNNY":

6.20 p.m.—DICKSON GREGORY:
A World Famous Steamer—the "old" "EDINA."

6.35 p.m.—Musical interlude.

6.40 p.m.—"BILLY BUNNY":
"Stories of the Australian Bush."

NEWS AND MARKET REPORTS.

7 p.m.—Official report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke-street, Melbourne.

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

7.12 p.m.—Stock Exchange information.

7.17 p.m.—Fish Market reports by J. R. Borrett, Ltd.—Rabbit prices.

7.19 p.m.—River reports.

7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, Grain, Hay, Jute, Dairy Produce, Potatoes and Onions. Market reports of Fruit by the Victorian Fruiterers' Association—Retail prices. Wholesale prices of Fruit Merchants' Association. Citrus fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the Department of Agriculture, J. T. RAMSAY, Potato Expert, will speak on:
"Storage of Seed Potatoes."

SPORT—TECHNICALITIES AND MUSICALITIES.

7.45 p.m.—COLLINGWOOD CITIZENS' BAND:
Concert Piece, "A Little Peach."

7.52 p.m.—OLIVER PEACOCK, Baritone.

8 p.m.—H. K. LOVE: "Technicalities."
Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any information you may require.

8.10 p.m.—COLLINGWOOD CITIZENS' BAND:
Waltz, "Reflections."

8.17 p.m.—EILEEN CASTLES, soprano:
Aria,
"Tosca" (Puccini).
"Bells of Shandon" (Irish).

8.24 p.m.—ERIC AKINS will speak on:
"To-morrow's Events at the Motordrome."

8.34 p.m.—COLLINGWOOD CITIZENS' BAND:
March, "Silver Wood."
Intermezzo, "Pompadour."

8.44 p.m.—JACK LUMSDAINE, Whispering Baritone (by permission of J. C. Williamson, Ltd.):
"I'm Tickled to Death, I'm Single."
"Just Like a Butterfly."

8.50 p.m.—MOANA LUA DUO, Spanish and Steel Guitar Duets:
"Southern Blues" (Akoui).
"Kawahau Waltz" (Awai).

PIANOFORTE RECITAL.

8.57 p.m.—WILLIAM G. JAMES.

"AND THE NIGHT SHALL BE FILLED WITH MUSIC."

9.12 p.m.—COLLINGWOOD CITIZENS' BAND:
Selection, "An English Garden."

9.22 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Dreamy Hawaii."
Song, "Kuu Home."
Steel Guitar, "Hula Blues."
Duet, "My Blue Heaven."

9.34 p.m.—EILEEN CASTLES, soprano:
"Saper Vorreste" (Verdi).
"On Wings of Song" (Mendelssohn).

9.41 p.m.—"AINTREE" will speak on to-morrow's races.

9.51 p.m.—COLLINGWOOD CITIZENS' BAND:
Euphonium solo, "Neptune."

10 p.m.—"Argus" news service. Meteorological information. Road Notes. British Official Wireless news from Rugby. Island Shipping notes.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for To-day is for MOTORISTS:
"Never run your engine unless the garage door is open or at least two windows. If you feel any headache or faintness, go at once to the open air."

10.22 p.m.—JACK LUMSDAINE, Whispering Baritone:
"Kentucky's Way of Saying Good Morning"
"Me and My Shadow."

10.19 p.m.—COLLINGWOOD CITIZENS' BAND:
Selection, "The Merry Makers."

10.30 p.m.—MOANA LUA DUO:
"Kaluna Waltz" (Awai).
"My Blue Heaven" (Donaldson).

10.37 p.m.—OLIVER PEACOCK.

10.45 p.m.—COLLINGWOOD CITIZENS' BAND:
March,
"Canberra."
Selected.

11 p.m.—OUR GREAT THOUGHT:
"The Shrine of Remembrance."
"Even as we utter the words 'we shall ever remember' we begin to forget. To forget is to betray; for it is to be false to the men who fell, to the cause for which they fell, and to ourselves. Let the whole people join in creating such a monument as will keep the names and memories of these men fresh in the minds of our children's children."—Sir William Irvine.

10.55 p.m.—MOANA LUA DUO:
"Song of Hawaii" (Bones and Corbell).
"Hilo" (Pale).

11.1 p.m.—THE VAGABONDS.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Associated Radio Co.
Wave Length, 484 Metres.

FRIDAY, 13th APRIL, 1928.

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

MIDDAY CONCERT SESSION.
Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

1.21 p.m.—Mr. Art Gillham and his Southland Syncopators.
1.27 p.m.—Mr. Gil Dech, piano:
"It all depends on you" (de Sylva).
"Yesterday" (Harrison).
1.33 p.m.—Six Jumping Jacks:
"There's a trick in pickin' a chick, chick, chicken."
1.39 p.m.—Miniature Concert Orchestra:
"Over the Waves" (Rossas).
"Wedding of the Winds" (Hall).
1.45 p.m.—The Merrymakers:
"My Castle in Spain" (Isham).
"Sweet Child" (Whiting).
1.51 p.m.—Mr. Tapperman, organ:
"Charmaine" (Rapee).
1.54 p.m.—Walter B. Rogers' Brass Band.

MATINEE SESSION.
ORCHESTRAL DANCE CONCERT.

2 p.m.—Ayarz Dansonians:
A half-hour Dance Session by Melbourne's favorite Dance Band. All the latest popular hits, each one announced prior to its presentation.
2.30 p.m.—Melbourne Concert Orchestra:
"Scenes Pittoresques" (Massenet).
"Mountain Music" (Borch).
2.45 p.m.—Miss Jean Lewis, contralto:
"Silent Moon" (Vaughan-Williams).
"Mifawny" (Forster).
2.52 p.m.—Melbourne Concert Orchestra:
"Norwegian Suite" (Schytte).
"Plantation Songs" (Clusan).
3.10 p.m.—Miss Jean Lewis, contralto:
"Husheen" (Needham).
"Kathleen Mavourneen" (Crouch).
3.18 p.m.—Ayarz Dansonians.
3.30 p.m.—Interval announcements.
3.35 p.m.—Interval talk on Cooking in the House.
3.45 p.m.—Melbourne Concert Orchestra:
"The Myrtles of Damascus" (Woodforde-Finden).
"Spanish Gypsy Dance", (Mowrey).
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second weather forecast.
4.3 p.m.—Mr. William Davies, baritone:
"Dreams of the Dusk" (d'Hardelot).
"A Vagabond's Son" (Cundell).
4.11 p.m.—Ayarz Dansonians.
4.27 p.m.—Mr. William Davies, baritone:
"Song of Hybrias the Cretan" (Elliott).
"I Think" (Guy d'Hardelot).
4.35 p.m.—Melbourne Concert Orchestra:
"In a Persian Garden" (Lehmann).
"Norwegian Scenes" (Matt).
4.50 p.m.—To-night's entertainment. Announcements.
5 p.m.—G.P.O. Clock says "Five."
"God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.

EVENING SESSION.
BALL ROOM AND CONCERT HALL.

7.15 p.m.—Health Session: Mr. George Beattie, Principal of the Beattie College of Physical Culture, on "Physical Fitness."
7.30 p.m.—Sport Session: "Harlequin" presents his budget of news and comments on Sport of the day.
7.50 p.m.—Macnamara's Stock Reports.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra:
Overture, "Calif of Bagdad" (Boieldieu).
8.9 p.m.—Mr. John Hobbs, bass-baritone:
"Rage, thou angry storm" (Benedict).
"Yeoman's Wedding Song" (Pontiatowski).
8.17 p.m.—Ayarz Dansonians.
8.33 p.m.—Miss Ethel Newman, from the Palace Theatre, London:
In recitations and monologues.
8.40 p.m.—Melbourne Concert Orchestra:
"Three Little Oddities" (Zez Confrey).
8.50 p.m.—Announcements.
9.2 p.m.—Melbourne Concert Orchestra:
"Der Zarewitsch" (Lehar).
9.19 p.m.—Mr. Ken. Code, trombone:
"The Switchback," Novelty (Sutton).
9.23 p.m.—Mr. John Hobbs, bass-baritone:
"Song of the Flea" (Moussorgsky).
"Trottin' to the Fair" (Stanford).
9.30 p.m.—"Harlequin": Sports results.
9.38 p.m.—Ayarz Dansonians.
9.50 p.m.—Announcements.
10 p.m.—G.P.O. Clocks says "Ten."
10.1 p.m.—Semi-final weather forecast, specially for our Country Listeners.
10.3 p.m.—Melbourne Concert Orchestra.
10.23 p.m.—Miss Ethel Newman, from the Palace Theatre, London:
In recitations and monologues.
10.30 p.m.—Ayarz Dansonians.
10.45 p.m.—"Harlequin": Sport results.
10.50 p.m.—"Age" news bulletin, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "The Kookaburras," by John O'Brien.
11 p.m.—G.P.O. Clock says "Eleven."
"God Save the King."

4QG, BRISBANE.

Queensland Radio Service
Wave Length, 385 Metres.

FRIDAY, 13th APRIL, 1928.

MORNING SESSION.
10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports; weather information supplied by the Commonwealth Weather Bureau; news services supplied by "The Daily Mail" and "The Daily Sta
1.20 p.m.—Lunch hour music.
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.
3.31 p.m.—A programme of music from the studio.
"The Telegraph News."
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times, Daily Standard news, Weather Information announcements.
6.10 p.m.—Dinner Music.
6.30 p.m.—Bedtime stories by "The Sandman."
7 p.m.—Market reports; stock reports.
7.30 p.m.—Weather news; "Daily Standard" news; announcements.
7.43 p.m.—Standard time signals.
7.45 p.m.—To-morrow's racing news.

NIGHT SESSION.
ITHACA ORCHESTRAL SOCIETY.

8 p.m.—Overture:
"Jolly Robbers" (Supe).
The Ithaca Orchestral Society (Conductor: Mr. A. Kaeser).
Soprano solos:
(a) "At My Window" (Parker).
(b) "Twas April" (Nevin).
Miss R. Marsden.
Pianoforte Solo:
"Donnybrook" Fair" (Scott).
Miss Thelma Sanderson.
Tenor Solo:
"One Heart Divine" (Rosewig).
Mr. C. T. Birkbeck.
Dervish Chorus:
"In the Soudan" (Sebek).
The Ithaca Orchestral Society.
Contralto Solos:
(a) "Echoes" (Allen).
(b) "Love's Rhapsody" (D'Hardelot).
Miss Vera Parker.
A Thought for To-night:
"The Will of Providence."
Will H. Lister.
Slavonic Rhapsody by Friedman.
The Ithaca Orchestral Society.
9 p.m.—Metropolitan Weather Forecast.
Tenor solos:
(a) "Once Again" (Sullivan).
(b) "Like Stars Above" (Squire).
Mr. C. T. Birkbeck.
Waltz:
"Wiener Burger" (Ziehrer).
The Ithaca Orchestral Society.
Ten Minutes' Fun by "Graham and Wattie."
Pianoforte Solo:
"Ragamuffin" (Ireland).
Miss Thelma Sanderson.
Characteristic:
"Parade of the Tin Soldiers" (Jessel).
The Ithaca Orchestral Society.
Soprano Solos:
(a) "Who Knows" (Ball).
(b) "A Night of Love" (Larry Spier).
Miss R. G. Husband.
Grand March:
"The Queen's" (Riviere).
The Ithaca Orchestral Society.
10 p.m.—Week-end road information officially supplied by the Royal Automobile Club of Queensland.
10.15 p.m—"Daily Mail" news. Weather news. Close down.

5CL, ADELAIDE.

Central Broadcasters, Ltd.
Wave Length, 395 Metres.

FRIDAY, 13th APRIL, 1928.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Musical numbers on the Studio "Recreator."
12.50 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Musical numbers on the studio "Recreator."
1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the studio "Recreator."
3.30 p.m.—Menu talk.
3.45 p.m.—Musical numbers on the Studio "Recreator."
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
5 p.m.—G.P.O. Chimes.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's entertainment by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
6.50 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Interstate Fruit and Produce Market Co. Ltd., Retail Grocers Association.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—"Windbag's" Sporting Service.
7.8 p.m.—S. C. Ward and Co." Stock Exchange Intelligence.
7.15 p.m.—Scripture Reading.
7.22 p.m.—Selections, Studio Orchestra.
7.40 p.m.—Tenor solo, Howard Bauerochse.
7.50 p.m.—Selection Studio Orchestra.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Relayed from Malcolm Reid and Co.'s Showrooms, orchestral selections by Malcolm Reid and Co's Orchestra.
8.10 p.m.—Contralto solo, Magaret Pirie.
8.20 p.m.—Orchestral selections, Malcolm Reid's Orchestra.
8.30 p.m.—Popular numbers, Norman Shepherd
8.40 p.m.—Selections, Malcolm Reid's Orchestra
8.45 p.m.—Contralto solos, Margaret Pirie.
8.50 p.m.—Selections, Malcolm Reid's Orchestra
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Meteorological information.
9.2 p.m.—British Wireless News.
9.9 p.m.—Dalgety's wheat report.
9.15 p.m.—Selection, Studio Orchestra.
9.25 p.m.—Popular songs, Norman Shepherd.
9.30 p.m.—Talk on Football by "Highmark."
9.45 p.m.—Contralto solo, Margaret Pirie.
9.50 p.m.—Selections, Studio Orchestra.
10 p.m.—G.P.O. Chimes.
10.1 p.m.—"Advertiser" news service.
10.10 p.m.—"Windbag's" Sporting Service.

10.20 p.m.—Selection, Studio Orchestra.
10.30 p.m.—Dance Music relayed from the Maison de Danse, Glenelg.
10.55 p.m.—Saturday's programme and meteorological information.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

FRIDAY, 13th APRIL, 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, news, and cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meterological Bureau of Western Australia.
1.2 p.m.—Studio Quintette, conducted by Mr. Val Smith.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Orchestral music played by Hoyts Orchestra, conducted by Mr. Harold Partington, relayed from Hoyts Regent Theatre, William street.
Vocal and instrumental numbers from the studio.
4.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength
6.50 p.m.—Stories for the Kiddies, by Uncles Henry, Bertie and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Racing talk b ythe Sporting editor of "Truth" Newspaper Co.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Popular Night:
Musical programme from the Studio, including vocal and instrumetnal artists:
Mr. Cedric Messner, baritone.
Miss Evelyn Willis, A.R.C.M., pianist.
Orchestral music played by the Grand Symphony Orchestra, conducted by Mr. Val Smith, relayed from the Grand Theatre, Murray street.
9.35 p.m.—Health talk by Mr. H. S. Hatton, Principal of Hatton's Prysical Culture School.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within range announcement.
Weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 516 Metres.

FRIDAY, 13th APRIL, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes the hour.
11.1 a.m.—Special Midlands Weather forecast.
11.5 a.m.—British Official Wireless news.
11.10 a.m.—Mercury morning news service.
11.30 a.m.—Shipping information.
Ships within wireless range.
Mail notices.
Commercial news.
Foreign Exchange markets.
Produce sales.
Housewives guide.
Railway sales.
11.45 a.m.—Musical selections.
11.50 p.m.—Whats Doing—Amusement guide.
11.55 a.m.—Tasmanian weather stations 9 a.m. reports.
12 noon.—G.P.O. Clock chimes the hour.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selections.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of Interest.
3.15 p.m.—Selections by 7ZL Studio Trio:
March, "The Gladiators" (Blankenbun).
Valse, "Abandon" (Coates).
"Polo Play" (Fetras).
Selection. "Queen High" (Hanley).
Violin solo. Selected. Mr. E. J. McCann.
"Rain Drops" (Brown.)
Piano Solo. Selected. Mr. A. Roberts.
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 p.m.—Uncle Hectors' half hour.

NIGHT SESSION.

7.30 p.m.—Fruit, Poultry and Produce reports through the courtesy of Roberts and Co., Ltd.
7.35 p.m.—Chat on To-morrow's Football Prospects.
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 the hour.
8.1 p.m.—Broadcast by Direct wire Weekly Lecture at Lyceum Club, Hobart
Concert from the Studio.
Miss Norah Freney, soprano.
Mr.G. Hook, comedian.
Mr. Victor Pharoah, banjoist.
Mr. Harry Bates, tenor.
Miss Ruby Piesse, accompanist.
Mr. E. Brooker, accordian.
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.
Weather reports from Australian Capital cities.
Travellers week-end information.
Station announcements.
Saturday's Programme.
10 p.m.—Close down.

Saturday, April 14

2FC, SYDNEY.

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

MORNING SESSION.

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

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange information.
12.3 p.m.—Studio music.
12.20 p.m.—"Sydney Morning Herald" summary.
12.25 p.m.—Rugby Wireless News.
12.30 p.m.—Studio music.
NOTE: A complete description of events of the last day of the Easter Meeting at Randwick will be given by the 2FC Racing Commissioner.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
1.15 p.m.—Studio music.
NOTE: During the Racing intervals at Randwick, the following musical programme will be given from the Studio:
"The Smart Set Trio"; leader, Molly Grant.
Peggy Shaw, soubrette.
William Doyle, novelty pianist.
5 p.m.—"Big Ben." Close down.
4.45 p.m.—Complete sporting resume.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.15 p.m.—Weather intelligence.
7.18 p.m.—Fruit and vegetable markets.
7.28 p.m.—Studio music.

NIGHT SESSION.

7.45 p.m.—Programme announcements.
7.50 p.m.—Rev. F. H. Raward:
Talk, "Let's Go Round the World."
8.5 p.m.—From the Conservatorium Hall, Sydney, on the occasion of the First Annual Conference of the Music Teachers of N.S.W.:
Concert by the Conservatorium Orchestra and Choir (Final night of the Conference):
1. Overture, "Egmont" (Beethoven).
The struggle between the Netherlands and the King of Spain, in which the story of "Egmont" forms a principal episode, and which ended in the rise of the Dutch Republic, is one of the most tremendous conflicts of modern times.
The Conservatorium Orchestra.
8.20 p.m.—The Conservatorium Choir.
8.32 p.m.—Suite No. 6 (Bach-Wood).
The first number is an arrangement of the third Prelude of the celebrated forty-eight Preludes and Fugues for the Clavichord. The second, "Lament," is the third movement from the Capriccio in B Flat Major. The fourth is the Gavotte and Musette from the sixth English suite. The fifth, "Andante Mistico" is from the famous twenty-second Prelude in B Flat Minor of the "Forty-eight." The sixth and last is the Finale from the sixth unaccompanied Violin Sonata, the difficult solo part being allotted to the violins.
The Conservatorium Orchestra.
8.40 p.m.—The Conservatorium Choir.
8.55 p.m.—From the Studio:
During the interval at the Conservatorium "The Two Magpies."
9.5 p.m.—From the Conservatorium; Continuation of the programme by the Conservatorium Orchestra and Choir:
Concerto for Pianoforte:
A Minor Opus 16 (Greig).
Solo Piano, Miss Iris de Cairos-Rego.
This beautiful composition was performed for the first time in public by the composer himself in 1879 at the Gewandhaus, Leipsic. The moledy, harmony and rhythm are choice, while the orchestral accompaniment is a special feature, and adds colour to the solo part.
The Conservatorium Orchestra.
9.37 p.m.—The Conservatorium Choir.
9.47 p.m.—"Sea Symphony" (Vaughan Williams).
The "Sea Symphony," composed in 1909, and lately revised, is one of the composer's larger settings of Walt Whitman's words.
The Conservatorium Orchestra.
10.5 p.m.—From the Studio:
Sydney Calland, baritone.
10.13 p.m.—"The Two Magpies."
10.23 p.m.—Sydney Calland, baritone.
10.30 p.m.—Late weather forecast.
10.31 p.m.—From the Ambassadors:
The Ambassadors Dance Orchestra, conducted by Mr. AL Hammet.
10.57 p.m.—From the Studio:
Late news.
To-morrow's programme.
11 p.m.—"Big Ben."
The Ambassadors Dance Orchestra.
11.45 p.m.—National Anthem.
Close down.

2BL, SYDNEY

SATURDAY, 14th APRIL, 1928.

EARLY MORNING SESSION.

8 a.m.—G.P.O. Clock and chimes.
Metropolitan weather report.
8.1 a.m.—State weather report.
8.2 a.m.—Tides at Fort Denison.

8.3 a.m.—Musical programme from the Studio
8.15 a.m.—G.P.O. Clock and chimes.
News from the "Daily Telegraph Pictorial."
8.30 a.m.—G.P.O. Clock and chimes.
Musical programme from Studio.
8.35 a.m.—Information, mails, shipping, arrivals, departures, and sailings.
8.38 a.m.—News from the "Daily Telegraph Pictorial."
8.45 a.m.—G.P.O. Clock and chimes.
Musical programme from Studio.
9 a.m.—G.P.O. Clock and chimes.
Close down.

MORNING SESSION.

11 a.m.—G.P.O. Clock and chimes.
Social Notes, by Mrs. Jordan.
Talk on "Simple Cooking for Children," by Mrs. Jordan.

AFTERNOON SESSION.

12 noon.—G.P.O. Clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Musical programme from the Studio.
12.20 p.m.—News from the "Sun."
12.25 p.m.—Sporting and athletic fixtures.
12.27 p.m.—What's on at the Pictures and Theatres.
12.30 p.m.—Musical programme from the Studio.
12.40 p.m.—News from the "Sun."
12.50 p.m.—Musical programme from the Studio.
1 p.m.—G.P.O. Clock and chimes.
During the afternoon, descriptions of each race, at Randwick races, will be broadcast, interspersed with musical items from the Studio.
4.55 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.
6.30 p.m.—Racing resume. Sporting resume.
7 p.m.—G.P.O. Clock and chimes.
Dinner Music.
7.30 p.m.—Talk on "Aborigines" by "Bringa."

EVENING SESSION.

8 p.m.—G.P.O. Clock and chimes.
Broadcasters' Topical Chorus. Dance night.
8.3 p.m.—Anne Henderson's Happiness Girls in Dance Numbers.
9 p.m.—Description of the Boxing Contest, by Mr. Walter E. Withrow, broadcast from the Stadium.
9.30 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. S. Simpson. "Sun" news will be broadcast during intervals.
11.45 p.m.—G.P.O. Clock and Chimes.
National Anthem.

2UW, SYDNEY

SATURDAY, 14th APRIL, 1928.

EVENING SESSION.

7 p.m.—Studio items.
7.10 p.m.—Where to Go Session.
7.15 p.m.—Dinner music.
7.45 p.m.—Instrumental and vocal selections.
8 p.m.—News items and shipping intelligence.
8.20 p.m.– Request numbers.
8.45 p.m.—Weather report.
8.50 p.m.—Dance music by courtesy of Morley, Johnson, Ltd.
9.35 p.m.—Dance music.
9.50 p.m.—Request numbers.
9.55 p.m.—Announcements.
10 p.m.—Close down.

3LO, MELBOURNE.

SATURDAY, APRIL 14th.

EARLY MORNING SESSION.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—THE STATION ORCHESTRA:
"Tales of the Vienna Woods" (Strauss).
"The Broken Hearted Sparrow—a love episode in Birdland" (Bindip).
11.11 a.m.—EILEEN CASTLES, soprano:
"Ia Voce"—Puritani (Bellini).
"Blackbirds' Song" (Cyril Scott).
11.18 a.m.—THE STATION ORCHESTRA:
Selection, "A Waltz Dream" (Strauss).
"Arabian Song" (Max Vogrich).
11.34 a.m.—OLIVER PEACOCK, baritone.
11.41 a.m.—THE STATION ORCHESTRA:
"A Musical Switch"—A Potpourri of melodies old and new" (Alford).
11.51 a.m.—EILEEN CASTLES, soprano:
"Deh Vieni" (Mozart).
"Little Boy Blue" (Nevin).
11.58 a.m.—THE SHRINE OF REMEMBRANCE.

"We talk of remembrance. Let us act in our lives as if we ourselves really were making some sacrifice in remembrance of the great sacrifice made by the brave men who went forth to war during those terrible five years. It is our duty to continuously do some personal deed of sacrifice lest we forget what we owe, not only to those who gave their lives, but the vast numbers who came back permanently injured and all who did their duty. It is our duty to raise a monument so that our children and childrens' children will preserve a reverential feeling of remembrance of what they also owe to the men who did such noble deeds to make the foundations of liberty and civilisation more secure. Those of us who have felt the deep emotion that comes over us while walking through the soldier cemetries in Flanders and Gallipoli, have thoughts that constantly well within us to remind us of the devotion to duty of the thousands of our brave sons. The simple slab on those ever-green God's acres, with the name of the soldier on it, or the words, "Known only to God," make an appeal to remember which we never forget.

"Let the Shrine of Remembrance in Melboure be a worthy epitaph to their memory."

—George Swinburne.

MIDDAY NEWS SERVICE.

12 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. Reuter's and the Australian Press Association cables. "Argus" news service.

IN JOYOUS MOOD.

12.20 p.m.—THE STATION ORCHESTRA:
Selection, "You're in Love" (Friml).
12.31 p.m.—FRANK AND FRANCIS LUIZ:
Duet, "Hana Lei."
Steel Guitar, "Kalima Waltz."
Song, "Lay my head beneath a rose."
Duet, "Drifting and dreaming."
12.43 p.m.—Stock Exchange information.
12.45 p.m.—THE STATION ORCHESTRA:
Selection, "The Chocolate Soldier."
Selected.
1 p.m.—Melbourne Observatory time signal.
1.1 p.m.—JACK LUMSDAINE, whispering baritone (by permission J. C. Williamson Ltd.):
"Baby Mine."
"Bungalow and You."
1.8 p.m.—Meteorological information. Weather report and rainfall for Victoria, Tasmania, South Australia and New South Wales. Ocean reports. River reports.
1.15 p.m.—THE STATION ORCHESTRA:
"Atalantis—The Lost Continent" (Safranck)
Morning Hymn of Praise.
A Court Function.
I Love Thee (The Prince and Aana).
The Destruction of Atlantis."
1.23 p.m.—OLIVER PEACOCK, baritone.
1.31 p.m.—THE STATION ORCHESTRA:
"Stars of the Desert" (Amy Woodford Finden).
1.42 p.m.—JACK LUMSDAINE, the radio Rascal:
"Dew, Dew, Dewey Day."
"Calling" (Lumsdaine).
1.49 p.m.—Close down.
During the afternoon results of Woodford Club Races will be given as they come to hand.
2 p.m.—Description of Ninth Annual Military and Athletic sports at the Melbourne Cricket Ground.
2.10 p.m.—Close down.

AFTERNOON SESSION.

2.15 p.m.—HARRY SHRUGG'S BAND:
Selection, "Fox Trots."
2.30 p.m.—Description of Two-year-old Handicap, 5 furlongs less 20 yards, EPSOM RACES, by "Aintree."
2.35 p.m.—HARRY SHUGG'S BAND:
Selection, "Comic Opera."
2.45 p.m.—Announcements and sporting results.
2.50 p.m.—HARRY SHUGG'S BAND:
Selection, "Waltzes."
3 p.m.—Description of Trial Plate, 6 furlongs, EPSOM RACES, by "Aintree."
3.5 p.m.—Description of Ninth Annual Military and Athletic Sports at the Melbourne Cricket Ground.
3.15 p.m.—HARRY SHUGG'S BAND:
Selection, "Grand Opera."
3.30 p.m.—Description of Traial Purse, 1 mile, EPSOM RACES, by "Aintree."
3.35 p.m.—HARRY SHUGG'S BAND:
Selection, "Marches."
3.45 p.m.—Announcements and sporting results.
4 p.m.—Description of Brush Steeple, 2 miles 15 chains, EPSOM RACES, by "Aintree."
4.5 p.m.—HARRY SHUGG'S BAND:
Selection, "Dance Music."
4.10 p.m.—Description of KING'S CUP RACE run at RANDWICK RACE COURSE, SYDNEY, transmitted from Randwick.
4.16 p.m.—FROM THE STUDIO. HARRY SHUGG'S BAND:
Selection, "Comic Opera."
4.30 p.m.—Description of Epsom Handicap, 1¼ mile, EPSOM RACES, by "Aintree."
4.35 p.m.—HARRY SHUGG'S BAND:
Selection, "Popular Melodies."
4.45 p.m.—Weather reports.
4.50 p.m.—Description of Ninth Annual Military and Athletic Sports at the Melbourne Cricket Ground.
5 p.m.—Description of Jumpers' Flat Race, 1¼ mile, EPSOM RACES, by "Aintree."
5.5 p.m.—"Herald" news service.
Stock Exchange information.
5.15 p.m.—Close down.
During the afternoon the results of Woodford Club Races will be given as they come to hand.

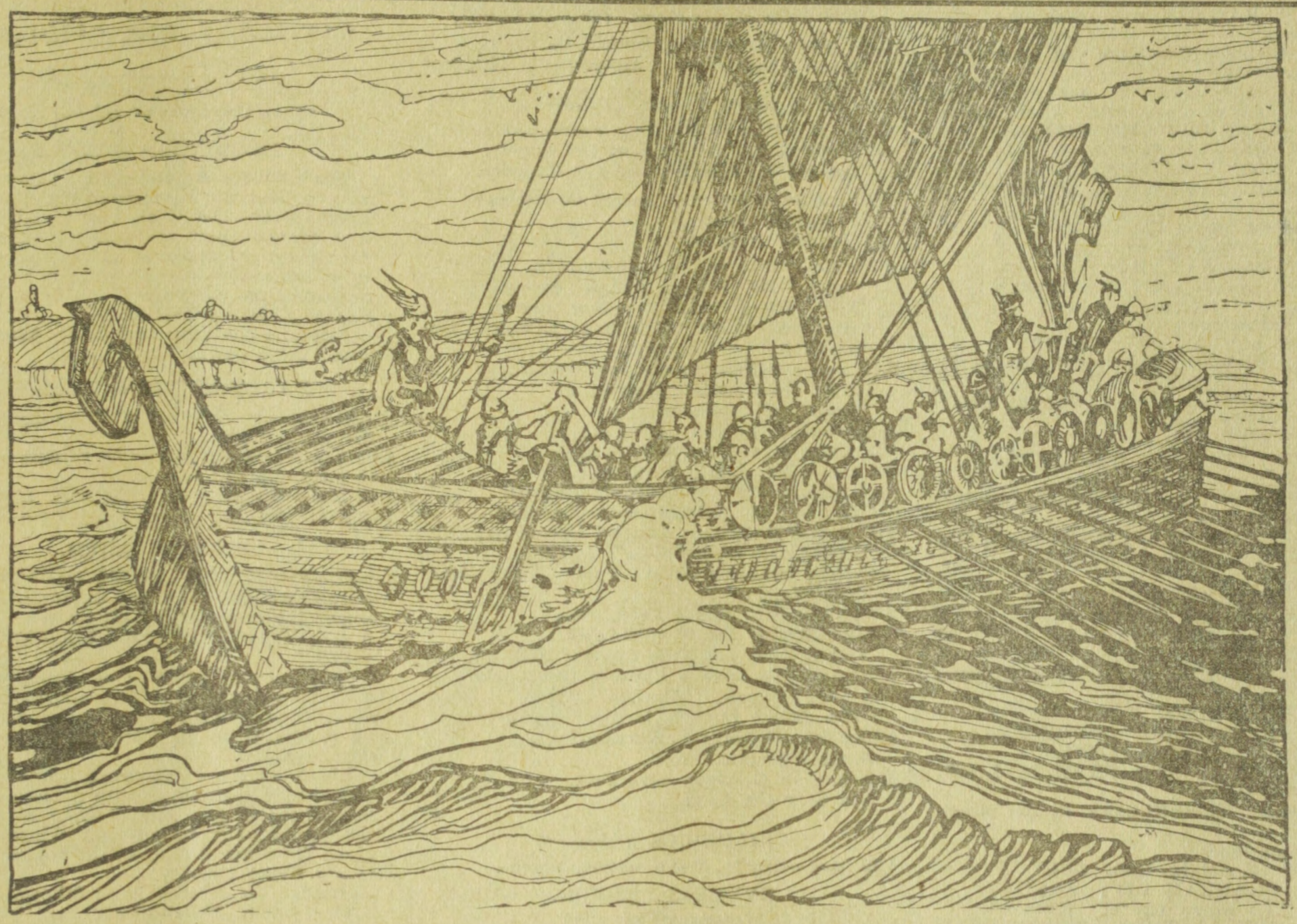
EVENING SESSION.

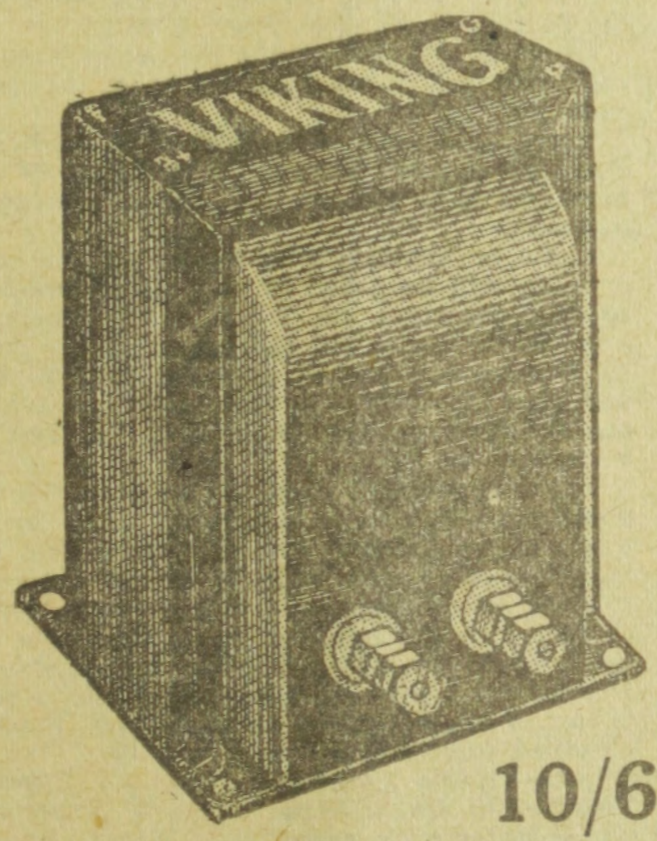
6.0 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."
6.20 p.m.—CAPTAIN DONALD MacLEAN:
The Spanish Conquests.
How the Dons discovered the Treasures of the World.
6.35 p.m.—Musical Interlude.
6.40 p.m.—LITTLE MISS KOOKABURRA:
Story for the Little Ones,
"Molly's Cat, named 'White Socks.'"
Story for the Bigger Ones,
"How Jock, Dick and Jim Spend a Half Holiday."
NEWS AND MARKET REPORTS.
7.0 p.m.—Sporting Results.
7.5 p.m.—"Herald" News Service; Weather
7.12 p.m.—Stock Exchange Information.
Synopsis; Shipping Movements.
7.17 p.m.—River Reports.
7.20 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 Fruiterers' Association; Retail Prices; Wholesale Prices of Fruit by the Wholesale Fruit Merchants' Association; Citrus Fruits.

NIGHT SESSION.

7.30 p.m.—FREDERICK CHAPMAN, A.L.S., F.G.S., Palaeontologist of the National Museum, will speak on:
"Trilobites."

Nature has fashioned many curious things in order to people the earth and sea, but none, perhaps, more curious and wonderful than the crustaceans that we call trilobites. These three-lobed animals were once living in every sea, but are now all extinct. Their remains often occur in stone quarries, clay pits and even on slabs of slate, and in this talk some localities in Victoria will be mentioned where their many-jointed and petrified bodies may still be found.





10/6

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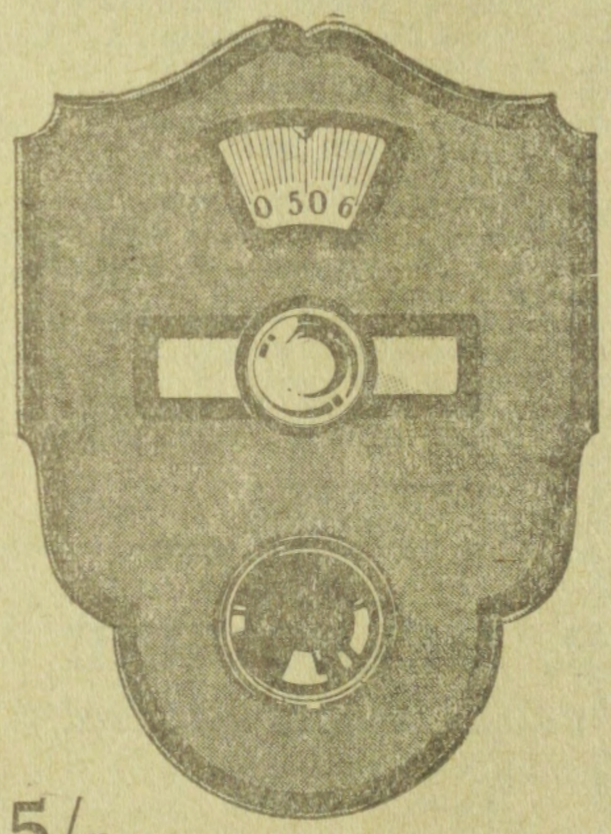

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7.45 p.m.—DR. J. A. LEACH, will speak on: "Lories."
8.0 p.m.—R. RAWSON will speak on: "Esperanto."
8.15 p.m.—Birthday Greetings and Programme Announcements.
". . . The 'voice' of that fitful song sings on and is never still." (Longfellow)
8.16 p.m.—PRAHRAN CITY BAND: Valse, "Casino Tanze" (Gunge).
8.26 p.m.—ROY GALLOWAY, Baritone (by permission J. C. Williamson, Ltd.): "Selected."
8.33 p.m.—PRAHRAN CITY BAND: "Nevada" (Nicholls). (
March, "Blencathia" (Rimmer).
8.40 p.m.—EILEEN CASTLES, Soprano: "Porgi Amor" (Mozart).
"Elegie" (Massenet).
8.47 p.m.—PRAHRAN CITY BAND: Selection, "Melodious Memories" (Rimmer).

MOTORDROME.

8.57 p.m.—Description of Events at the Motordrome, by "Olympus."

FROM THE STUDIO. (

9.7 p.m.—THE STATION ORCHESTRA: "Moonlight Sonata" (Beethoven).
"Reconciliation" from the "Ballet, Les Millions D'Arlequin.
9.17 p.m.—BERYL HAYDEN, Soubrette (by permision J. C. Williamson, Ltd): Selected.
9.24 p.m.—PRAHRAN CITY BAND: "My Blue Heaven" (Donaldson). (
"Minuet in G" (Beethoven).

STADIUM.

9.30 p.m.—Description of to-night's Stadium Event.

FROM THE STUDIO.

10.0 p.m.—THE STATION ORCHESTRA: Suite, "Songs of Italy" (Lohr).
10.10 p.m.—FRANK AND FRANCIS LUIZ. Duet, "Hula Maid."
Steel Guitar, "Three O'Clock in the Morning."
Song, "Kuu Ipo."
Duet, "My Honolulu Hula Girl."
10.22 p.m.—PRAHRAN CITY BAND: Overture, "La Gozza Ladra" (Rimmer).
10.37 p.m.—THE STATION ORCHESTRA: "Berceuse—from Jocelyn" (Godard).
Tango, "El Amante" (Thos Allen).
10.44 p.m.—BERYL HAYDEN, Soubrette: "Selected."

LATE SPORTING RESULTS.

10.50 p.m.—Late Sporting.
11.0 p.m.—OUR GREAT THOUGHT:
Many and many a man has been ruined by his memory. So has many a firm. So has many a nation.
It is a fatal thing to make the Memory the Prime Minister of the Mind. (
Cultivate your memory—yes, go as far as you can; but NEVER REMEMBER A THING THAT OUGHT TO BE FORGOTTEN.

DANCE MUSIC.

11.1 p.m.—THE VAGABONDS.
11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

SATURDAY, 14th APRIL, 1928.

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

MIDDAY CONCERT SESSION.
12 noon to 1 p.m.

Transmitted from Panatrope House, 252 Collins Street (by exclusive premission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.
ORCHESTRAL DANCE CONCERT.

Sport results. During the afternoon the results of the Epsom Races will be broadcast immediately each race is run, together with other information.
2 p.m.—Ayarz Dansonians.
A half-hour dance session by Melbourne's favorite Dance Band. The latest popular hits, each one announced prior to its presentation.
2.30 p.m.—Melbourne Concert Orchestra: "Ballet Music from Gioconda" (A. Ponchielli).
"Berceuse Slave" (Neruda).
2.45 p.m.—Miss Beth Corrie, contralto: "Ombra mai Fu" (Handel).
"The Birth of the Morn" (Franco Leoni).
2.53 p.m.—Melbourne Concert Orchestra: Suite, "Tales by Moonlight" (Vincent Thomas).
"Four Selected Pieces" (Friml).
3.14 p.m.—Miss Beth Corrie, contralto: "Little Blue Boy" (Teresa Del Riego).
"Beyond the Viel" (Kennedy Russell).
3.21 p.m.—Melbourne Concert Orchestra: "Cavatine" (Raff).
"Menuett" (Mozart).
3.30 p.m.—Interval announcements.
3.40 p.m.—Mr. Robert Adams, cornet: "True Heart Polka" (Walter Lewis) (accompanied by the Melbourne Concert Orchestra).
3.44 p.m.—Melbourne Concert Orchestra: "Suite from India" (Popy).
"Edera" (E. Carosio).
4 p.m.—G.P.O. clock says Four.
4.1 p.m.—Second weather forecast.
4.3 p.m.—Mr. James Scott, bass: "Till I Wake" (Woodforde-Finden).
"The Gallant Salamander" (Barnard).
4.11 p.m.—Melbourne Concert Orchestra: "Violin Solo from Sylvia" (Delibes).
Second selection from "Lilac Time" (arr. Clutsam).
4.26 p.m.—Mr. James Scott, bass: "The Pirates' Song" (Chadwick).
"Old Clothes and Fine Clothes" (Shaw).
4.34 p.m.—Melbourne Concert Orchestra: A tone journey, "Missippi" (Grofe).
"The Savoy English Medley" (Somers).
4.55 p.m.—To-night's entertainment. Announcements.
5 p.m.—G.P.O. clock says Five.
God Save the King.

CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's entertainment.

EVENING SESSION.
DANCE CONCERT.

7.30 p.m.—Sport session. "Harlequin" persents his budget of up-to-date news and comments on sport of the day.
7.45 p.m.—Everyman's garden. Special week-end talks by Mr. W. R. Warner, president of the Nurserymen's and Seedsmen's Association of Victoria.
8 p.m.—G.P.O. clocks says Eight.
8.1 p.m.—Ayarz Dansonians.
8.16 p.m.—Mr. Robert Gillard, bass: "Drinking" (Old Air).
"Myself when young" (Lehmann).
8.24 p.m.—Ayarz Dansonians.
8.43 p.m.—The Sundowners' Male Quartet: "Three Negro Spirituals" (Burleigh).
8.50 p.m.—Announcements.
9.2 p.m.—Ayarz Dansonians.
9.18 p.m.—Mr. Tom Semple, tenor: "O, Mistress Mine" (Quilter).
"Sylvelin" (Sinding).
9.25 p.m.—Ayarz Dansonians.
9.42 p.m.—The Sundowners' Male Quartet: "Blue Skies" (Berlin).
"My Idea of Heaven" (Tobias).
9.50 p.m.—Announcements.
10 p.m.—G.P.O. clock says Ten.
10.1 p.m.—Semi-final weather forecast, specially for our country listeners.
10.3 p.m.—Ayarz Dansonians.
10.19 p.m.—Mr. Herbert Sanderson, baritone: "When thy blue Eyes" (Larsen).
"Tom Brown" (Squire).
10.26 p.m.—Ayarz Dansonians.
10.35 p.m.—Mr. Robert Allen, alto: "The Rose of Tralee" (Glover).
"I shall know" (Zucca).
10.42 p.m.—Mr. Tom Semple, tenor, and Mr. Herbert Sanderson, baritone: Duet, "Come to the Fair" (Martin).
10.45 p.m.—"Harlequin." Sports results.
10.52 p.m.—To-morrow's entertainment. Announcements.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "In the Face of the Dead," by Ethel Castilla.
11 p.m.—G.P.O. clock says Eleven.
God Save the King.

4QG, BRISBANE

SATURDAY, 14th APRIL, 1928.

NO MORNING SESSION.
NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

The Brisbane Amateur Turf Club's meeting will be described direct from the Albion Park Racecourse. The commence of transmission will depend upon the starting time of the first race and will, as usual, be announced from the studio at 7.45 p.m. on the evening preceding the meeting.

FROM ALBION PARK:
Brisbane Amateur Turf Club's Meeting.
5 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Special Bi-weekly News Bulletin for distant listeners.
6.30 p.m.—Bedtime stories by "Uncle Ben."
7.15 p.m.—Racing results.
7.20 p.m.—To-day's sporting news described.
7.30 p.m.—Sailing notes by Mr. Fred Smith.

NIGHT SESSION.

8 p.m.—FROM THE TIVOLI THEATRE: Ocrhestral music. Tivoli Operatic Orchestra under the baton of Mr. C. Groves.

A RADIO NOVELTY: "A TEST OF QUICK WITS."

The second portion of to-night's programme will take the form of the second of a series of four Radio Novelties, which will be presented to listeners over a period of four weeks.

Those who are interested in the Novelty should arm themselves with a piece of paper and a pencil, and should listen carefully to the preliminary instructions which will be given from the station at the commencement of the Radio Novelty.

Briefly, the scheme is as follows:—

The Radio Novelty will last over four nights, the second portion will be given to-night, the third on Friday, April 20th, and the fourth on Monday, April 23rd.

On each of the nights the announcer at 4QG will ask listeners a series of 12 questions.

These questions will deal with ordinary everyday current events. The object of the questions is to test the general knowledge of listeners.

Radio enthusiasts who follow up the competition will be asked to write their answers to the questions on a sheet of paper, to keep their replies till the whole of the questions have been asked over the four nights, and then post them to the station, marking the envelope across the corner, "A Test of Wits."

The listener who correctly answers all the questions will receive a prize of £5. In the event of no listener correctly answering the questions the prize will be awarded to the listener whose replies are nearest to being correct. In the event of more than one listener correctly answering all the questions, the correct replies will be placed into a container, a drawing will be made, and a prize awarded accordingly.

8.30 p.m.—Radio Novelty: "A Test of Quick Wits."
9 p.m.—Motor cycle races.
9.30 p.m.—FROM LENNON'S BALLROOM: Dance music.
10 p.m.—FROM THE STUDIO:.
"Sunday Mail" news.
Weather news.
Close down.

5CL, ADELAIDE

SATURDAY, 14th APRIL, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Chimes.
11.1 a.m.—"Advertiser" news service and British Wireless News.
11.30 a.m.—Musical numbers on the Studio "Recreator."
12 noon.—G.P.O. chimes and close down.

THE ability to choose your own programme from the various stations is a great boon! It means that if you do not care for the jazz from here, or the lecture from there, you can tune in elsewhere—WITHOUT INTERFERENCE.

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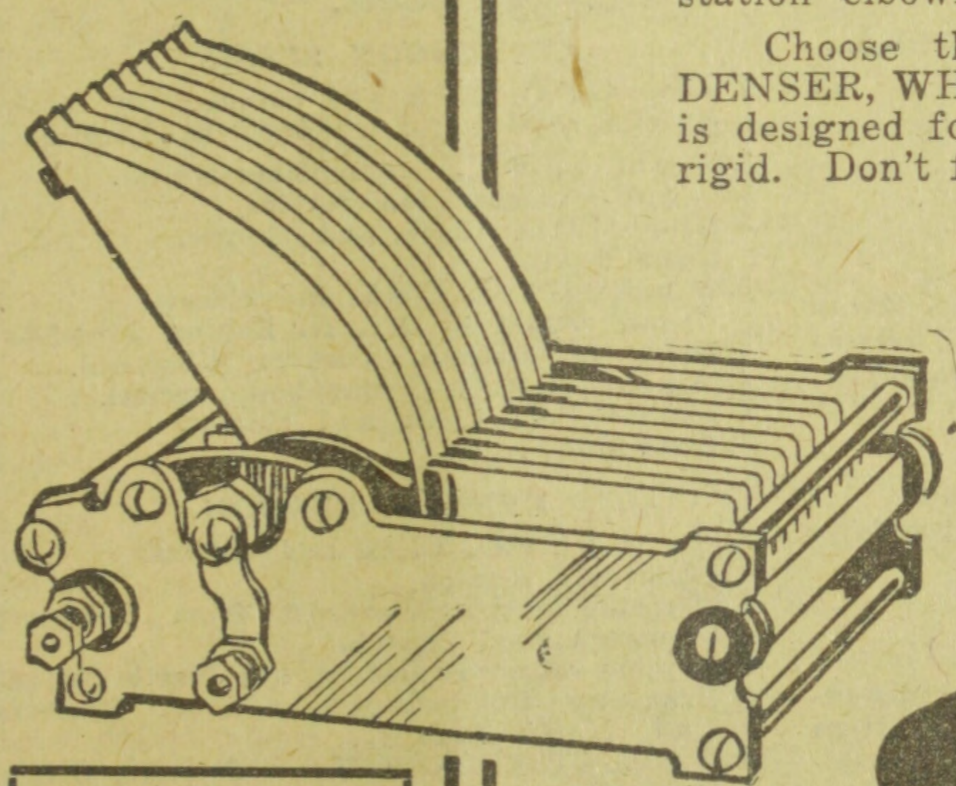

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MELBOURNE : SYDNEY : ADELAIDE : BRISBANE

AFTERNOON SESSION.

1 p.m.—Relayed from Victoria Park Racecourse, a running description of events of S. A. Tattersalls Club's meeting, by Mr. Arnold Treloar, interspersed with interstate results and musical numbers from the studio.
5 p.m. (Approx).—Close down.

EVENING SESSION.

5.50 p.m.—Resume of the afternoon's sporting results.
6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's entertainment by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
7.8 p.m.—Scripture Reading.
7.15 p.m.—Address by Mrs. A. H. Moss, Australian Woman delegate to League of Nations, 1927.
7.45 p.m.—Summary of sporting results, local and interstate.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Orchestral concert by the Bijou Orcehstra, under H. S. Hubber.
9 p.m.—G.P.O. Chimes.
9.1 p.m.Orchestral concert continued.
10 p.m.—G.P.O. Chimes.
10.1 p.m.—Sporting results local and interstate
10.15 p.m.—Dance Music relayed from the Maison de Danse Glenelg.
10.55 p.m.—Sunday's programme.
11 p.m.—G.P.O. chimes and National Anthem.

6WF, PERTH.

SATURDAY, 14th APRIL, 1928.

MIDDAY SESSION.

12 noon.—Tune in.
12.5 p.m.—Musical programme, including pianoforte selections by Miss Evelyn Willis, A.R.C.M.
12.47 p.m.—Markets, News, and Cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Close down.

AFTERNOON SESSION.

3.15 p.m.—Tune in.
3.20 p.m.—Sporting Session.
Racing results and Progressive Cricket scores.
Vocal and instrumental numbers from the Studio.
5.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength
6.50 p.m.—Birthday greetings for the Kiddies by Uncles Henry, Bertie and Duffy.
7.10 p.m.—Sports results.
7.20 p.m.—Markets, News, and Cables.
7.45 p.m.—Talk.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Musical programme from the studio, including vocal and instrumental artists.
Old time dance music relayed from the Unity Theatre, Beaufort street.
10 p.m.—Late news items by cuourtesy of "The Daily News" Newspaper Co.
Ships within Range announcement.
Weather report and forecast.
Sports results.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

SATURDAY, 14th APRIL, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes the hour.
11.1 a.m.—Special Midlands weather forecast.
11.5 a.m.—British Official Wireless news.
11.10 a.m.—Mercury morning news service.
11.30 a.m.—Shipping information.
Ships within wireless range.
Mail notices. Commercial news. Foreign Exchange markets. Housewives guide. Produce sales. Railway Sales.
11.45 a.m.—Hobart Stock Exchange quotations.
11.50 a.m.—Sporting anticipations.
Boat Express information .
12 noon.—G.P.O. Clock chimes the hour.
Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
Broadcast by direct wire from North Hobart Oval description of the Football Match New Town v. Lefroy. Progress racing and sporting events, musical items from the studio.
5 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Uncle Huberts half hour.
7 p.m.—Uncle Hector talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selections.
7.50 p.m.—Mercury special Tasmanian news service.
Sporting results.
Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock chimes the hour.
8.15 p.m.—Dance numbers by the Pavilion Dance Band from the City Hall, Hobart interspersed with items from the studio.
10.20 p.m.—British Official Wireless news.
Ships within wireless range.
Weather information.
Station announcements.
Sunday's programme.
Close down.

Sunday, April 15

2FC, SYDNEY.

MORNING SESSION.

10.55 a.m.—Programme announcements.
11 a.m.—"Big Ben."
From St. Mary's Cathedral, Sydney: The Morning Service.
12.15 p.m.—From the Studio:
Musical items and news session.
12.30 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.3 p.m.—From the Studio:
A programme by Blind Artists:
Organ, "Andante and Allegro" (Bache).
Mr. T. F. Faulkner.
Contralto solos:
"Abide with Me" (Liddle).
"A Land of Roses."
Mrs. T. F. Faulkner.
3.20 p.m.—From the Studio:
Musical items.
3.30 p.m.—From the Band Rotunda, Manly Beach: A programme by the Manly Municipal Band. Conductor, James Pheloung.
5 p.m.—"Big Ben." Close down.

EVENING SESSION.

6 p.m.—"Big Ben" and announcements.
6.5 p.m.—Madame Evelyn Grieg, pianoforte solos:
(a) "Polonaise No. 12 (Chopin).
(b) "Valse No. 3 (Chopin).
(c) "Mazurka" (Chopin).
6.15 p.m.—A Sketch entitled "The Sentimentalists," arranged by R. D. Maunsell, from Dennis' "The Play."
Characters:
The Professor, Bryson Taylor.
The Lady, Paula Nash.
The Bloke, R. D. Maunsell.
During the Sketch Bryson Taylor will sing the tenor aria from "Romeo and Juliet" (Gounod).
Miss Paula Nash will sing "The Waltz Song" from "Romeo and Juliet" (Gounod).
6.45 p.m.—Madame Evelyn Grieg, pianoforte solos:
(a) "Clair de Lune" (Debussy).
(b) "The Sea" (Palmgren).
6.50 p.m.—The Evening Service from the Lyceum Hall, arranged by the Central Methodist Mission.
Preacher, Rev. H. C. Foreman, M.A.
Organist, Miss Constance Bardsley, L.L.C.M.
Choirmaster, Mr. V. W. Peterson, B.A., B.Sc.
Organ solo.
6.55 p.m.—Anthem.
7 p.m.—Entract and Invocation.
Hymn 23.
Prayer.
Hymn 106.
Lesson: Isaiah, chap. 61. Rev. A. J. Gould.
Solo, "Be thou faithful unto death."
Horace Kayes.
Prayer.
Notices. Offertory Anthem.
Hymn 763.
Sermon: Rev. H. C. Foreman, M.A.: "A Preacher Retrospect."
Hymn 645.
Benediction.
8.30 p.m.—From the Band Rotunda, Manly Beach: The Manly Municipal Band. Conductor, James Pheloung.
9.30 p.m.—From the Studio:
Excerpts from "Pagliacci" (Leoncavallo).
By the Operatic Trio:
Norman Janson, baritone.
Charles Stephens, tenor.
Paula Nash, soprano.
9.40 p.m.—Henri Penn, pianoforte solos:
(a) "Moto Perpetuo" (Weber).
(b) "The Maiden's Wish" (Chopin-Liszt).
(c) "Waltz and Confidences"(Syambati).
9.52 p.m.—Excerpts from "Pagliacci" (Leoncavallo), by the Operatic Trio.
10.2 p.m.—Henri Penn, pianoforte solos:
(a) "Prelude in C" (Prokofieff).
(b) "O God thy Mercy" (Beethoven-Liszt).
(c) "Toccata" (Saint Saens).
10.10 p.m.—A group of English songs by the Operatic Trio (arr. by Norman Janson).
10.20 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

SUNDAY, 14th APRIL, 1928.

MORNING SESSION.

10.45 a.m.—Special news service.
11 a.m.—Service broadcast from Newtown Congregational Church.

AFTERNOON SESSION.

2 p.m.—G.P.O. Clock and chimes.
Special session for children in hospitals.
2.15 p.m.—H.M.V. Gramophone recital.
2.45 p.m.—Information Service.
3 p.m.—G.P.O. Clock and chimes.
Close down.
3.30 p.m.—G.P.O. Clock and chimes.
Organ recital by Mr. N. Robins, broadcast from the Arcadia Theatre, Chatsood.
4.30 p.m.—H.M.V. Gramophone recital.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.
6.30 p.m.—Service broadcast from Newtown Congregational Church.
8.30 p.m.—Band recital by the North Sydney Tramway Band broadcast from Manresa Hall, North Sydney.
9.15 p.m.—The British Music Society's String Quartette.
9.22 p.m.—The first of a series of National Art Song recitals by Miss Hilda Boyle-Englund.
9.42 p.m.—The British Music Society's String Quartette.
9.49 p.m.—Miss Nellie Ravens, contralto.
9.56 p.m.—Resume of following day's programme.
Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
10 p.m.—G.P.O. Clock and chimes.
10.1 p.m.—The British Music Society's String Quartette.
10.8 p.m.—Miss Nellie Ravens.
10.15 p.m.—G.P.O. Clock and chimes.
National Anthem.

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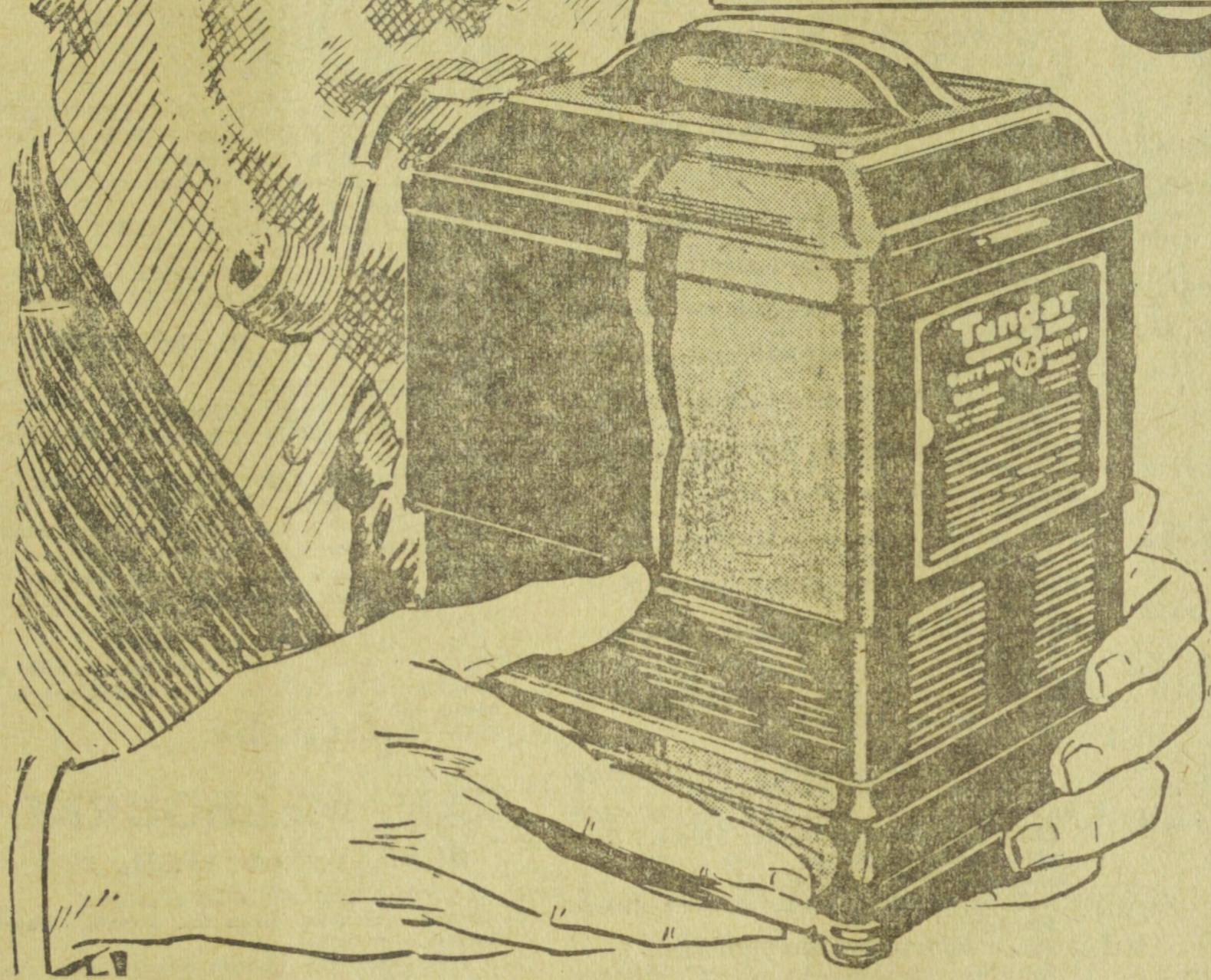

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2UW, SYDNEY

SUNDAY, 14th APRIL, 1928.

10.30 a.m.—Studio items.
10.35 p.m.—Special H.M.V. Recital of vocal and instrumental records, by courtesy of The Gramophone Co., 163 Pitt-street, Sydney
11.30 a.m.—Request numbers.
12 noon.—Studio items.
12.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Studio items.
7.45 p.m.—Special Scottish programme from the Studio:
Miss Sylvia Churchill, soprano.
7.55 p.m.—Studio item, Bagpipe selection: "Highland Schottische."
7.58 p.m.—Mr. Douglas Rae, tenor solos:
(a) "Mary."
(b) "Ye Banks and Braes of Bonnie Doon."
8.8 p.m.—Studio item, Band selection: "Scottish Patrol." Gathering of the Clans (Williams).
8.12 p.m.—Miss Mabel Ramsbotham, violin solo: "Coronach."
8.18 p.m.—Studio item, Bagpipe selection: "Military Two-Step."
8.22 p.m.—Miss Sylvia Churchill, soprano, and Mr. Douglas Rae, tenor, duet:
"Oh, Where, tell me Where, has my Highland Laddie Gone."
8.30 p.m.—Studio item, Flute solo: "Coming thro' the Rye."
8.34 p.m.—Miss Sylvia Churchill, soprano: "The Auld Hoose."
8.41 p.m.—Studio item, Pipes and Drums: "March Past of the Cameron and Gordon Highlanders."
8.45 p.m.—Weather forecast.
8.47 p.m.—Miss Mabel Ramsbotham, violin solo: "Scottish Fantasie."
8.54 p.m.—Studio item:
"Bells of Baumville."
"Blue Bells of Scotland."
8.58 p.m.—Mr. Douglas Rae, tenor:
(a) "Afton Water."
(b) "Scots wha hae."
9.8 p.m.—Studio items, Pipes and Drums: "March Past of Royal Scots and Royal Highlanders."
9.12 p.m.—Request numbers.
9.28 p.m.—Announcements.
9.30 p.m.—Close down.

3LO, MELBOURNE.

SUNDAY, 14th APRIL, 1928.

MORNING SESSION.

10.30 a.m.—Bells from ST. PAUL'S CATHEDRAL.
10.45 a.m.—Express train information. British Official Wireless news from Rugby. News from yesterday's papers.
11 a.m.—SERVICE FROM SCOTS CHURCH, Collins Street, Melbourne.
Preacher: THE REV. D. A. CAMERON, M.A.
Organist: MANSLEY GREER.
Psalm (Metrical Version), 36 v.v. 5-9, Tune 79.
Prayer.
Prose Psalm 66 and 67.
Chants 265 266 and 264.
Old Testament Lesson: Isaiah 58.
Hymn 193.
Prayer of Intercession.
New Testament Lesson: St. John 15/8-16.
Anthem, "As it began to dawn" (Myles Foster).
The Lord's Prayer. (The Congregation standing, will unite.)
SERMON: "Social Service in the Spirit of Christ."
Prayer.
Intimations.
Offering.
Offertory, "The Answer" (Wolstenholme).
Hymn 438.
Benediction.
FROM THE STUDIO—
12.15 p.m.—Announcement. Close down.

AFTERNOON SESSION.

2 p.m.—SONORA RECITAL OF THE WORLD'S MOST FAMOUS RECORDS.
PIANO SOLOS:
"Moment Musical" (Schubert).
"Traumes Wirren" (Schumann).
Played by Wilhelm Backhaus.
Another outstanding record by the favorite pianist, who has countless admirers all over Australia. These two delightfully melodious short piano works are brilliantly played, and with Backhaus' inimitable lightness of touch. Schubert's charming "Moment Musical" and Schumann's "Traumes Wirren" "Dream Visions") are too well-known for comment.
ORCHESTRAL:
"Symphony No. 4 in E Minor, Op. 98" (Brahms).
London Symphony Orchestra, conducted by Hermann Abendroth.
Part 1. 1st Movement—Allegro non troppo (Part 1).
Part 2. 1st Movement—Allegro non troppo (Part 2).
Part 3. 1st Movement—Allegro non troppo (Part 3).
Part 4. 2nd Movement—Andante moderato (Part 1).
Part 5. 2nd Movement—Andante moderato (Part 2).
Part 6. 2nd Movement—Andante moderato (Part 3).
Part 7. 2nd Movement—Andante moderato (Part 4).
Part 8. 3rd Movement—Allegro giocoso (Part 1).
Part 9. 3rd Movement—Allegro giocoso (Part 2).
Part 10. 4th Movement—Allegro energico e passionato (Part 1).
Part 11. 4th Movement—Allegro energico (Part 2).
Part 12. 4th Movement—Allegro energico (Part 3).
SONG:
"On Wings of Song" (Mendelssohn).
Tudor Davies (Tenor).
VIOLIN SOLO:
"La Fille aux cheveux de lin" (Debussy)
Played by Jacques Thibaud.
8 p.m.—PLEASANT SUNDAY AFTERNOON SERVICE. Central Wesley Mission, Lonsdale Street, Melbourne.
Chairman: REV. J. H. CAIN.
Hymn No. 9, "Come let us join our cheerful songs."
Prayer: REV. C. IRVING BENSON.
Orchestral selection, Mr. G. M. Williams, Conductor.
Hymn No. 23, "I am Thine, O Lord."
Quartette, The Meister Quartette Party.
Orchestra.
Quartette, The Meister Quartette Party.
Notices.
Offering.
Orchestra.
ADDRESS.
National Anthem.
Benediction.
Orchestra.
4.30 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

6 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6.25 p.m.—"BROTHER BILL" will chat with the children about:
"Blazing a Trail."
6.45 p.m.—BELLS FROM ST. PAUL'S CATHEDRAL.

NIGHT SESSION.

7 p.m.—EVENING SERVICE—ST. PAUL'S CATHEDRAL (Choral):
Hymn (A. & M.) 139, "Come see the place where Jesus lay."
Sentence.
Exhortation.
General Confession.
Absolution.
The Lord's Prayer.
Versicles and Responses.
Psalm 103.
1st Lesson.
Magnificat.
2nd Lesson.
Nunc Dimittis.
The Apostles' Creed.
The Collects.
Easter Carols.
Prayers.
Hymn 137: "Alleluia! Alleluia! Hearts to Heaven."
THE SERMON: REV. F. A. RAY.
Hymn 302, "Come, ye faithful, raise the anthem."
The Benediction.
"O music, sphere descended maid,
Friend of pleasure, wisdom's aid."
—Collins.
FROM THE STUDIO—
8.30 p.m.—Birthday Greetings and Programme announcements.
8.32 p.m.—Song Feature of the Week.
8.35 p.m.—The Record of the Week.
8.38 p.m.—THE BRUNSWICK CITY BAND: "Overturiana."
8.48 p.m.—EDMUND B. BUTTERWORTH, baritone (of the Gilbert & Sullivan Opera Co., His Majesty's Theatre):
"Don Juan Serenade" (Tschaikowsky).
"Lolita" (Buzzi Peccia).
8.55 p.m.—THE BRUNSWICK CITY BAND: "Handel's Celebrated Largo."
9.1 p.m.—STORY OF THE OPERA—Part 4.
9.30 p.m.—THE BRUNSWICK CITY BAND: Selection, "Gounod."
9.45 p.m.—EDMUND B. BUTTERWORTH, baritone:
"A Vuchella" (Tosti).
"Will o' the Wisp" (Cherry).
9.52 p.m.—"Argus" news service. Announcements.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY: "If you find any one unconscious in a garage drag him at once to the open air and start artificial respiration. If you do not know how to start artificial respiration, LEARN."
10 p.m.—OUR GREAT THOUGHT:
"To bear adversity and prosperity with an equal mind is both the sign and glory of a brave spirit."—Quarles.
GOD SAVE THE KING.

3AR, MELBOURNE

SUNDAY, 14th APRIL, 1928.

MORNING CHURCH SESSION.

10.30 a.m.—Chimes from St. John's Church, Toorak.
11.0 a.m.—Morning Church Service from Australian Church, Russell Street. Preacher, Rev. Dr. C. Strong.

AFTERNOON SESSION.

"CELEBRITY CONCERT."

3.0 p.m.—Miss Ilma Cook, Piano:
"Shepherd's Hey" (Percy Grainger).
"Deux Arabesques" (Debussy).
3.8 p.m.—Mr. Ernie Pettifer, Saxaphone:
"Vision D'Amour" (Wiedoeft).
"Dance Hongroise" (Ring Hager).
3.16 p.m.—Miss Ann Middleton, Soprano:
"A Summer Night" (Thomas).
"Down the Vale" (Frank L. Moir).
3.24 p.m.—Mr. C. Richard Chugg, Flute:
"Prelude Orientale" (Boisdeffe).
"Cradle Song" (Schubert).
3.31 p.m.—Mr. Charles Trewavis, Baritone:
"The Last Call" (Sanderson).
"The Wraith" (Schubert).
3.39 p.m.—Mr. Ernie Pettifer, Clarinet:
"Concertino" (Weber).
"Spring's Awakening" (Bach).
3.49 p.m.—Miss Ann Middleton, Soprano:
"The Bird of the Wilderness" (Ed. Horsman).
"The Flutes of Arcady" (W. James).
3.57 p.m.—Mr. C. Richard Chugg, Flute:
"Valse Gracieuse" (Ed. German).
"La Flute de Pan" (Wasch).
4.5 p.m.—Mr. Charles Trewavis, Baritone:
"To Anthea" (Hatton).
"Droop not Young Lover" (Handel).
4.13 p.m.—Miss Ilma Cook, Piano:
"Sea Pieces" (MacDowell).
"Poupee Valsante" (Poldini).
4.21 p.m.—Mr. Ernie Pettifer, Clarinet, and Mr. C. Richard Chugg, Flute:
Duet, "Sweet Longing" (Menzel).
Duet, "Tarentelle" (St. Saens).
4.30 p.m.—God Save the King.

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No complicated series of plugs. No danger. Smooth, easy power always, once properly adjusted.

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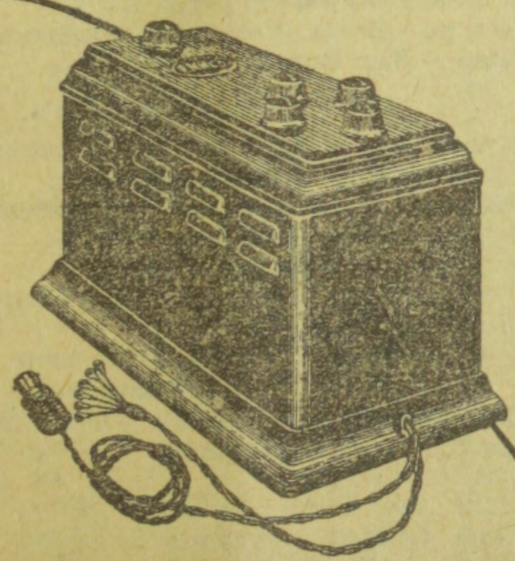
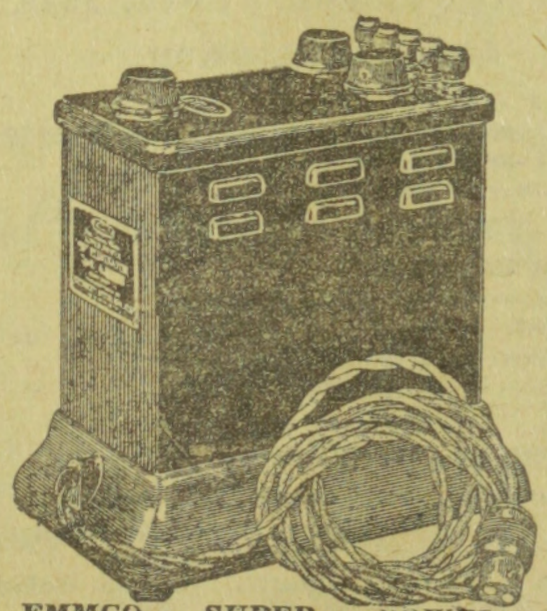
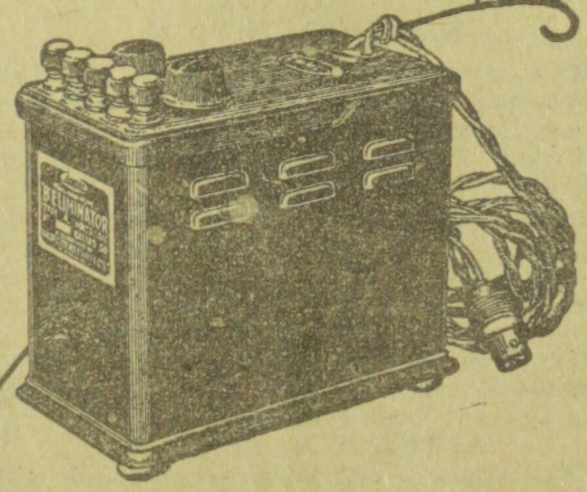


EMMCO A.B.C. ELIMINATOR for sets with .25 valves. Potential regulated up to 350 M.A. Variation of forty volts on input.

PRICE:
For .25 Valves Type, £19/19/-
For .06 Valves Style, £15/15/-



EMMCO SUPER POWER ELIMINATOR, for multi-valve sets. Potential regulated up to 85 M.A. Variation of 40 volts on sets input. PRICE £12/12/-



EMMCO B. BATTERY ELIMINATOR for sets up to 5 valves.
PRICE £10/10/-

USE EMMCO RADIO POWER UNITS

CHILDREN'S SESSION.

6.0 p.m.—Special Children's Hour.

EVENING CHURCH SESSION.

7.0 p.m.—Evening Service from Toorak Presbyterian Church. Preacher, Rev. J. MacKenzie.

EVENING SESSION.

8.30 p.m.—Brunswick Panatrope Entertainment. Broadcast from Panatrope House, 252 Collins Street, Melbourne (by exclusive permission of Wills and Paton, Ltd.), under the direction of the Panatrope Committee:

8.31 p.m.—The Regimental Band of His Majesty's Grenadier Guards.
Irish Selection, "The Shamrock" (Ar. W. H. Myddleton). In two parts.

8.38 p.m.—Mr. Tom Burke, Tenor:

8.44 p.m.—Court Symphony Orchestra:
"Dance of the Fire and Water," from "The Blue Bird" (Norman O'Neill).
"Dance of the Mist Maids," from "The Blue Bird" (O'Neill).

8.50 p.m.—La Scala Chorus of Milan:
"Testa H. Pane" from "La Gioconda" (Ponchielli). In two parts.

8.56 p.m.—The Band of The Royal Air Force:
Selection, "Community Song" (Ponchielli), Parts 3 and 4.

9.2 p.m.—Miss Minnie Danter, Piano:
"Etude in G Flat," from "The Butterfly" (Chopin).
"La Castagnette" (Henri Ketten).

9.8 p.m.—The B.B.C. Wireless Symphony Orchestra:
Suite, "Casse Noisette" (Tschaikowsky). In two parts.

9.16 p.m.—Mr. Harold Williams, Baritone:
"The Ginghy Road" (Cheyney).
"Limehouse" (Burke).

9.22 p.m.—Cleveland Orchestra:
"Wedding Music, Act III., Scene I.," from Lohengrin (Wagner).
"Prelude to Act III.," from Lohengrin (Wagner).

9.28 p.m.—Mr. Lew White, Kimball Organ:
"It all Depends on You."
"Trail of Dreams."

9.34 p.m.—Johann Strauss' Symphony Orchestra:
Selection, "Die Fledermaus," "The Bat" (Johann Strauss). In two parts.

9.42 p.m.—Mr. Tom Burke, Tenor:
"O Vision Entrancing" (Marzials).
"My Dreams" (Weatherly).

9.48 p.m.—The Regimental Band of His Majesty's Scots Guards:
"British Imperial Chimes" (with Chimes), (Partridge).
"The Russian Chdrch Parade" (with Chimes) (Partridge).

9.54 p.m.—"The Age" News Bulletin, exclusive to 3AR.

9.58 p.m.—Weather Forecast.

9.59 p.m.—Our Australian Good-Night Quote is taken from the poem, "The Boy Crusader," by Brunton Stephens.

10.0 p.m.—God Save the King.

4QG, BRISBANE

SUNDAY, 14th APRIL, 1928.

MORNING SESSION.

The complete morning service will be relayed from St. Andrew's Church of England, South Brisbane.

10.50 p.m.—FROM ST. ANDREW'S CHURCH OF ENGLAND: Organ music by Mr. E. W. Taylor; Holy Communion Service (Merbecke); Hymns (ancient and modern)—134 "Jesus Christ is Risen To-day," 135 "Alleluia the Strife is O'er," 316 "Alleluia Sing to Jesus," 322 "And Now O Father," 318 "Bread of Heaven," 499 "On the Ressurrection Morning"; Nunc Dimitts; sermon by the Rector; organ music; conclusion.

AFTERNOON SESSION.

The concert by the Federal Band will be relayed from the Botanic Gardens.

3.15 p.m.—FROM THE BOTANIC GARDENS: Band Concert.

4.30 p.m.—Close down.

NIGHT SESSION.

The complete evening service will be relayed from St. Andrew's Church of England, South Brisbane.

7 p.m.—FROM ST. ANDREW'S CHURCH OF ENGLAND:
Children's hymns and talk.

7.20 p.m.—Organ music by Mr. E. W. Taylor.

7.30 p.m.—Festival Evensong: Psalm 103; Winchester in F., Magnificant and Nunc Dimittis; Anthem, "The Strife is O'er" (Stearne); Hymns—131 "Christ the Lord is Risen To-day," 140 "Jesus Lives," 138 "Christ is Risen"; sermon by the Rector; Threefold Amen; organ music.

8.30 p.m.—Benediction.

At the conclusion of the church service the concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.

FROM WICKHAM PARK:
Band concert.

9.30 p.m.—Close down.

5CL, ADELAIDE.

SUNDAY, 14th APRIL, 1928.

MORNING SESSION.

10.45 a.m.—Carillon of bells from St. Andrews Crurch, Walkerville.

11 a.m.—G.P.O. Chimes.

11.1 a.m.—Divine Service from the Salvation Army Citadel.

12.10 p.m. (Approx).—British Wireless news.

12.20 p.m.—Time Announcement.
Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.

3.1 p.m.—Relay from the Salvation Army Citadel, a special Sacred programme of vocal and instrumental items.

4 p.m.—G.P.O. Chimes.
Close down.

EVENING SESSION.

6.30 p.m.—G.P.O. Chimes.

6.31 p.m.—Carillon of bells from St. Andrew's Church.

6.36 p.m.—Running time of East-West express.

6.37 p.m.—Sunday Stories for the children.

7 p.m.—G.P.O. Chimes.

7.1 p.m.—Relay from St. Bartholomews Church, Divine Service.

8.15 p.m.—Sacred Concert from St. Bartholomews.

9.30 p.m.—Address by P. H. Nicholls.

9.45 p.m.—Adelaide's Churches No. 6 Mr. A. L. Brown.

10 p.m.—G.P.O. Chimes.

10.1 p.m.—Meteorological Information and Weather Forecast.

10.4 p.m.—British Wireless news.

10.10 p.m.—National Anthem.

6WF, PERTH.

SUNDAY, 14th APRIL, 1928.

MORNING SESSION.

10.45 a.m.—Tune in.

11 a.m.—Morning church service relayed from Salvation Army Citadel, Perth.

12.15 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.

3.35 p.m.—FROM THE STUDIO.
Musical programme from the Studio, including vocal and instrumetal artists.

4.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength

7.5 p.m.—Children's bedtime stories.

7.30 p.m.—Evening church service relayed from Wesley Church, Hay Street, Perth.

8.45 p.m.—A Relay.
After-Church service relayed from Queen's Hall, William street.

10.5 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 7 p.m.

7ZL, HOBART

SUNDAY, 14th APRIL, 1928.

MORNING SESSION.

11 a.m.—Divine Service from Memorial Congegational Church Hobart.
Preacher. Rev. Arthur C. Nelson.

AFTERNOON SESSION.

3.30 p.m.—G.P.O. Clock chimes the hour.
Concert from the studio.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Childrens Corner with the Sunday Lady.

NIGHT SESSION.

7 p.m.—Church Service from St. Davids Cathedral, Hobart.
At conclusion of Church Service Concert from the studio or Band concert from St. Davids Park.

9.40 p.m.—Mercury special Interstate news service.
British Official Wireless news.
Ships within wireless range.
9 p.m. Weather forecasts.
Station announcements.
Monday's programme.
Close down.

Monday, April 16

2FC, SYDNEY

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

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.

10.5 a.m.—Studio music.

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

10.30 a.m.—Studio music.

10.35 a.m.—Last minute Racing information by the 2FC Commissioner.

10.45 a.m.—Studio music.

11 a.m.—"Big Ben." Studio music.

11.5 a.m.—A.P.A. and Reuter's Cables.

11.15 a.m.—A Reading.

11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.

12.2 p.m.—Stock Exchange, first call.

12.3 p.m.—Weather forecast, rainfall.

12.5 p.m.—Studio music.

12.10 p.m.—Summary of "Sydney Morning Herald" news service.

12.15 p.m.—Rugby wireless news.

12.20 p.m.—Studio music.

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

1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.

1.20 p.m.—Studio music.

1.28 p.m.—Stock Exchange, second call.

1.30 p.m.—Doris Robinson, soprano.

1.34 p.m.—Studio music.

1.55 p.m.—Doris Robinson, soprano.

2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.

3.5 p.m.—Gwen Gillard, soprano:
"Gather Ye Rosebuds" (Sanderson).

3.10 p.m.—John Dellore, tenor.

3.15 p.m.—A talk by "Delisse."

3.30 p.m.—Dorothy Branson, pianoforte solo. (Pupil of Heri Penn.)

3.40 p.m.—Dorothy Shields, soprano.

3.45 p.m.—From the Ambassadors:
The Ambassadors Dance Orchestra.
Conductor, Al. Hammet.

4 p.m.—"Big Ben."
From the Studio:
Gwen Gillard, soprano:
"Tiptoe" (Carew).

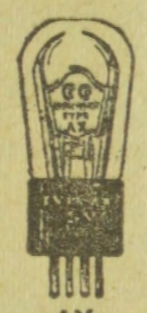
4.4 p.m.—Dorothy Bransdon, pianoforte solo. (Pupil of Henri Penn.)

4.12 p.m.—John Dellore, tenor.

4.16 p.m.—Dorothy Bransdon, pianoforte solo. (Pupil of Henri Penn.)

6.25 p.m.—Dorothy Shields, soprano.

A Complete Line of Ce Co Tubes *for* Every Radio Need



AX

(201-A)

"CeCo" type "AX" corresponds to UX-201-A and is the Standard Storage battery tube of Radio.

Excellent detector and amplifier for any circuit and noted for uniformity, low operating cost and marked efficiency.

Fil. Volts ..... 5.
Fil. Amp. ..... .25
Plate Volts ..... 45—135
Standard Base—Long Prongs.
LIST PRICE 8/-

J-71

(171)

"CeCo" type "J-71" output tube, similar to the UX-171, will handle the largest loud speaker at full volume. At ninety volts it will handle twelve times the undistorted volume of the ordinary "A" type.

Fil. Volts ..... 5.
Fil. Amp. 5
Plate Volts ..... 90—180
UX Base—Long Prongs.
LIST PRICE 21/-

F

(112)

"CeCo" type "F" corresponds to UX-112 and is a power amplifier tube for the last stage of audio frequency. For use with storage battery, or A.C.

Fil. Volts ..... 5.
Fil. Amp. 5
Plate Volts ..... 90—180
UX Base—Long Prongs.
LIST PRICE 20/-

G

"CeCo" type "G" is a high mu-tube intended for impedance and resistance coupling. Will give clearer reproduction and increased volume in all audio frequency sockets except last or output socket.

Fil. Volts ..... 5.
Fil. Amp. ..... .25
Plate Volts ..... 90—180
UX Base—Long Prongs.
LIST PRICE 13/-

H

"CeCo" type "H" is a special Detector non-critical as to filament or plate potential and also non-microphonic.

For use with Storage Battery and especially recommended for weak signals and distance reception.

Fil. Volts ..... 5.
Fil. Amp. ..... .25
Plate Volts ..... 67—90
UX Base—Long Prongs.
LIST PRICE 13/-

DG

Gas Filled Rectifier

(NO FILAMENT)

Makes a good "B" Eliminator Better

Easy Filtration—Less strain on Filter condensers and smoother output with less Hum or Ripple.

Rating:

Max. Volts 300
Max. Cur. ..... 85 M.A.
LIST PRICE 25/-

E

(120)

"CeCo" type "E" corresponds to UX-120 and is a power amplifier tube for the last stage of audio frequency. For use with dry cells.

Fil. Volts ..... 3.
Fil. Amp. ..... .125
Plate Volts ..... 90—180
UX Base—Long Prongs.
LIST PRICE 13/-

BX

(199)

"CeCo" type "BX" corresponds to UX-199 and is intended for Dry Cell use. Good detector and amplifier, and can be used in any receiver for which this type is specified. Low filament consumption.

Fil. Volts ..... 3.
Fil. Amp. ..... .06
Plate Volts ..... 45—90
UX Base—Long Prongs.
LIST PRICE 12/-

Detector
Type N-27.
(227)

Heater Volts 2.5
Heater Amps. 1.75
Plate Volts:
As Detector 45
As Amplifier ..... 90—135
Not to Exceed 180
LIST PRICE 40/-

Make Any Good RECEIVER Better

Amplifier
Type M-26
(226)

Fil. Volts 1.5
Fil. Amp. 1.05
Plate Volts ..... 90—135
Not to Exceed 180
LIST PRICE 20/-

Sole Agent: O. H. O'BRIEN (Sydney)

37-39 Pitt Street, Sydney. 654 Bourke Street, Melbourne. W. E. Peterman, 160 Edward Street, Brisbane

4.30 p.m.—From the Ambassadors: Dance music.
4.45 p.m.—Stock Exchange.
4.47 p.m.—From the Ambassadors: Dance music.
5 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.
6.15 p.m.—Story time for the young folk: Fairy Tales told by "Aunt Eily."
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben."
Late sporting news.
7.10 p.m.—Dalgety's Market Reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.45 p.m.—Programme announcements.
7.47 p.m.—Elliott Napier will continue his series of talks on the "Great Barrier Reef" (No. 2).
8 p.m.—"Big Ben."
Acts from the Tivoli Theatre.
8.20 p.m.—From the Studio: Henry Silver, Graphology talk.
8.35 p.m.—Ubaldo Russo (baritone, and Linda Bradford (soprano):
(a) Duet, "Thank God for a Garden" (Del Riego).
(b) Solo, "Keep on Keeping on" (Longstaffe).
Ubaldo Russo.
(c) Duet, "Don Giovanni"—"La ci darem" (Mozart).
8.45 p.m.—Joe Cahill, entertainer:
(a) "Father Riley's Horse" (Paterson).
(b) "Mister Dooley on Piano Playing" (Dune).
8.52 p.m.—Elsie Peerless, soprano:
(a) "The Dream of Home" (Arditti).
(b) "My Curly-headed Babby" (Clutsam).
9 p.m.—"Big Ben."
Late weather forecast.
2FC Orchestra, conducted by Horace Keats.
9.10 p.m.—Ubaldo Russo (baritone) and Linda Bradford (soprano):
(a) Duet from "Il Trovatore"—"Ah dove sei" (Verdi).
(b) Duet, "Russian Lullaby" (Berlin).
9.17 p.m.—2FC Orchestra.
9.30 p.m.—Elsie Peerless, soprano:
(a) "A fors e Lui" (Verdi).
(b) "Waltz Song," from "Romeo and Juliet" (Gounod).
(With orchestral accompaniment.)
9.40 p.m.—Joe Cahill, entertainer:
"A Reel Thrill" (Thompson).
"Then and Now" (Whitman).
9.48 p.m.—Ubaldo Russo, baritone, and Linda Bradford, soprano:
(a) Duet, from "Traviata."
(b) Soprano solo, "I Already Knew" (Hart).
(c) Duet, "Barcarolle," from "Tales of Hoffman."
9.58 p.m.—The 2FC Orchestra, conducted by Horace Keats.
10.10 p.m.—Len Maurice, popular baritone.
10.18 p.m.—The 2FC Orchestra.
10.30 p.m.—Late weather forecast.
10.31 p.m.—Len Maurice, popular baritone.
10.40 p.m.—The 2FC Orchestra.
10.50 p.m.—Len Maurice: Dance Items.
10.58 p.m.—To-morrow's programme and late news.
11 p.m.—"Big Ben."
National Anthem.
Close down.

2BL, SYDNEY.

MONDAY, 16th APRIL, 1928.

EARLY MORNING SESSION, 8 to 9 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and chimes.
Musical programme from the Studio.
11 a.m.—G.P.O Clock and chimes
Talk on "Tennis," by Miss Gwen Varley, Broadcasters Women's Sports Authority.
Social Notes. Replies to correspondents.
Talk on "'Preserves," 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
12.8 p.m.—Information. mails, shipping, and port directory.
12.12 p.m.—Boats in call by wireless.
12.14 p.m.—Fruit market report.
12.16 p.m.—Vegetable market report.
12.18 p m.—Dairy farm and produce market report.
12.22 p.m.—Forage market report.
12.24 p.m.—Fish market report.
12.26 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.
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" Newspapers.
3 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.—Dungowan Dance Band, broadcast from 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.—Talk on "'The Women of Ancient Rome."
4.30 p.m.—Dungowan Dance Band.
4.50 p.m.—News from the "Sun."
4.57 p.m.—Features of Evening's programme.
4.59 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.

SPECIAL COUNTRY SESSION.

6.30 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast by courtesy of Government Meteorologist.
Producers Distributing Society's Fruit and Vegetable market report.
Stock Exchange report.
Grain and Fodder report ("Sun.").
Dairy Produce Report ("Sun.").
6.45 p.m.—Country news from the "Sun."
7 p.m.—G.P.O. Clock and chimes.
Gulbransen Dinner Music.
7.30 p.m.—Talk on "The Motor Car and its Idiosyncrasies," by Mr. Martin, Manager of Central Motor Agencies, Hurstville
8 p.m.—G.P.O. Clock and chimes.
IRISH NIGHT.
8.1 p.m.—Mr. Donald Woodrow, baritone.
8.8 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood. Orgnaist: Mr. N. Robins.
8.15 p.m.—From the Studio, Miss Norah Hill, Soprano.
8.22 p.m.—Mr. Michael O'Connell, Elocutionist.
8.29 p.m.—Mr. Len Howell, tenor.
8.36 p.m.—Broadcasters Instrumental Trio.
8.46 p.m.—Miss Linda Hartge, contralto.
8.53 p.m.—Miss Anna Burke in Irish Songs.
9 p.m.—G.P.O. Clock and chimes.
Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
9.1 p.m.—Mr. Donald Woodrow.
9.8 p.m.—Mr. Michael O'Connell.
9.15 p.m.—Mr. Len Howell.
9.22 p.m.—Broadcasters Instrumental Trio.
9.29 p.m.—Miss Norah Hill.
9.36 p.m.—Irish Sketch by Mr. Jack Radford and Partner.
9.56 p.m.—Miss Linda Hartge.
10.3 p.m.—Resume of following day's programme.
10.7 p.m.—Miss Anna Burke.
10.14 p.m.—The Wurlitzer Organ broadcast from the Arcadia Theatre, Chatswood.
10.24 p.m.—Talk on "Ceylon—The Gem of the East," by Mr Basil irke (courtesy of P. & O. Company).
10.30 p.m.—Romano's Restaurant Dance Orchestra under the direction of Mr. Merv. Lyons. During intervals between dances, "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

2UW, SYDNEY

MONDAY, 16th APRIL, 1928.

EVENING SESSION.

7 p.m.—Studio item.
7.10 p.m.—Where to Go Session.
7.14 p.m.—Dinner music.
7.40 p.m.—Mr. Robert Meadows, euphonium solo: Selected.
7.47 p.m.—Studio item.
8.1 p.m.—News items and shipping intelligence.
8.15 p.m.—Mrs A. Pearce, violin solo: Selected.
8.22 p.m.—Studio item.
8.26 p.m.—Mr. Robert Meadows, euphonium solo: Selected.
8.32 p.m.—Studio item.
8.36 p.m.—Mrs. A. Dalton, pianoforte solo: Selected.
8.43 p.m.—Studio item.
8.46 p.m.—Weather forecast.
8.48 p.m.—Mrs. A. Pearce, violin solo: Selected.
8.55 p.m.—Studio item.
9 p.m.—Dance music.
9.30 p.m.—Request numbers.
9.45 p.m.—Dance music.
9.58 p.m.—Announcements.
10 p.m.—Close down.

3LO, MELBOURNE.

MONDAY, 16th APRIL, 1928.

HERALD BREAKFAST HOUR.
7.15 to 8.15 a.m.

MORNING SESSION.

11.0 a.m.—3LO's CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.

RAINBOW CREAM.

1 pint Lemon Jelly.
½ pint Cream or Custard.
½ oz. Gelatine.
1 oz. Sugar.
Coffee Essence.
Cochineal or Carmine.
Lemon and Vanilla.

Dissolve gelatine in a little water. Line a mould with half the lemon jelly, and set. Ship cream or make custard. Add melted gelatine and sugar. Divide into three colors—one part with coffee, one with carmine and the third leave white and flavor with vanilla. Allow all to set, then fill the prepared mould roughly with spoonfuls of the different colors. Pour on the remainder of the jelly cold, but not set. Allow to set, then turn out.

11.2 a.m.—THE GLORY OF THE GARDEN—Digging in Autumn:

There can hardly be two opinions about the beneficial effect of the elements on cultivated soil, and the greater the surface exposed the more the benefit. In digging, therefore, during autumn and winter, throw up the surface as rough as possible. This is especially desirable in the case of stiff, retentive land. In spring, ground so treated is a pleasure to work, being sweetened and pulverised, and so brought into just the proper state for the reception of seeds and plants.

11.5 a.m.—FLORA PELL, Inspector of Schools, will chat with you on the all important subject of: "Cooking."
11.20 a.m.—Musical Interlude.

ORMOND'S LATEST TRIUMPH

—*Surpassing all previous records of Condenser design!*

When Ormond produced their Standard S.L.F. Condenser they attained a triumph that alone was enough to ensure the endurance of their reputation. But with the eagerness of enterprize they aimed at even greater achievement. The result transcends anything previously accomplished as you will readily admit if you examine the new Ormond "No. 3" S.L.F. Condenser at your dealer's.

THE NEW ORMOND "No. 3" S.L.F. CONDENSER is a typical Ormond product —highly finished, highly efficient. It is cheaper in price than any yet, but still peerless in performance.

The New ORMOND "No. 3" S.L.F. CONDENSER is the precision Straight Line Frequency condenser with a greatly reduced frame and highly finished Bakelite end plates.

Specially shaped vanes give high maximum and low minimum capacity with TRUE S.L.F. readings throughout the full 180 degrees scale. No bunching of half the wavelengths between 0 and 27 degrees—all stations are spread evenly over the dial.

Supplied either with 4 in. Bakelite Plain Dial or 4 in. Bakelite Friction Control Dial.

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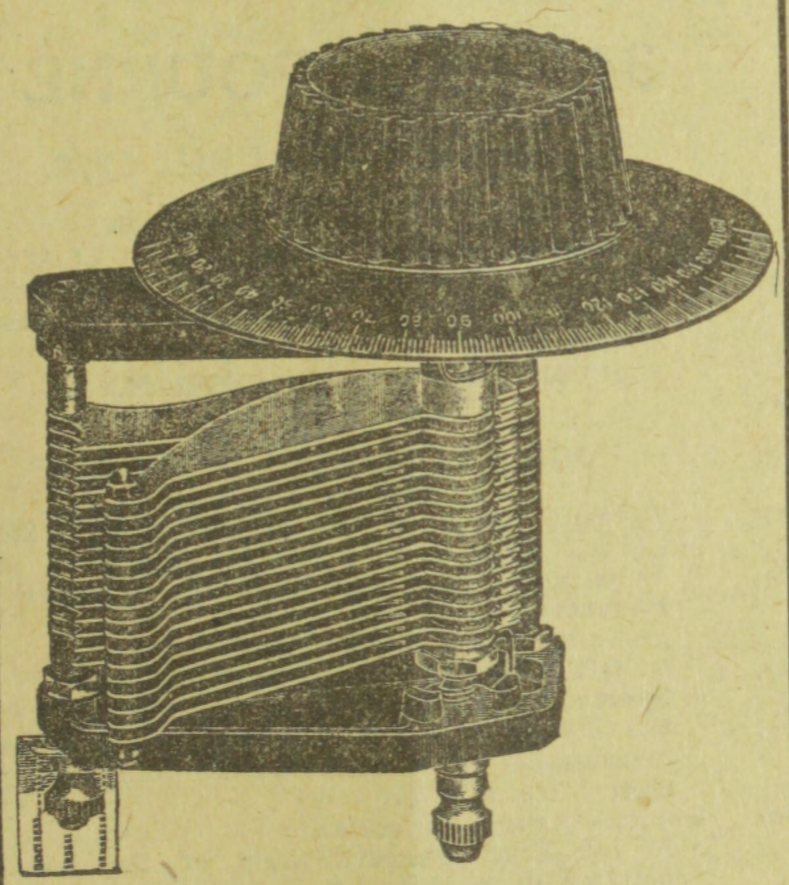

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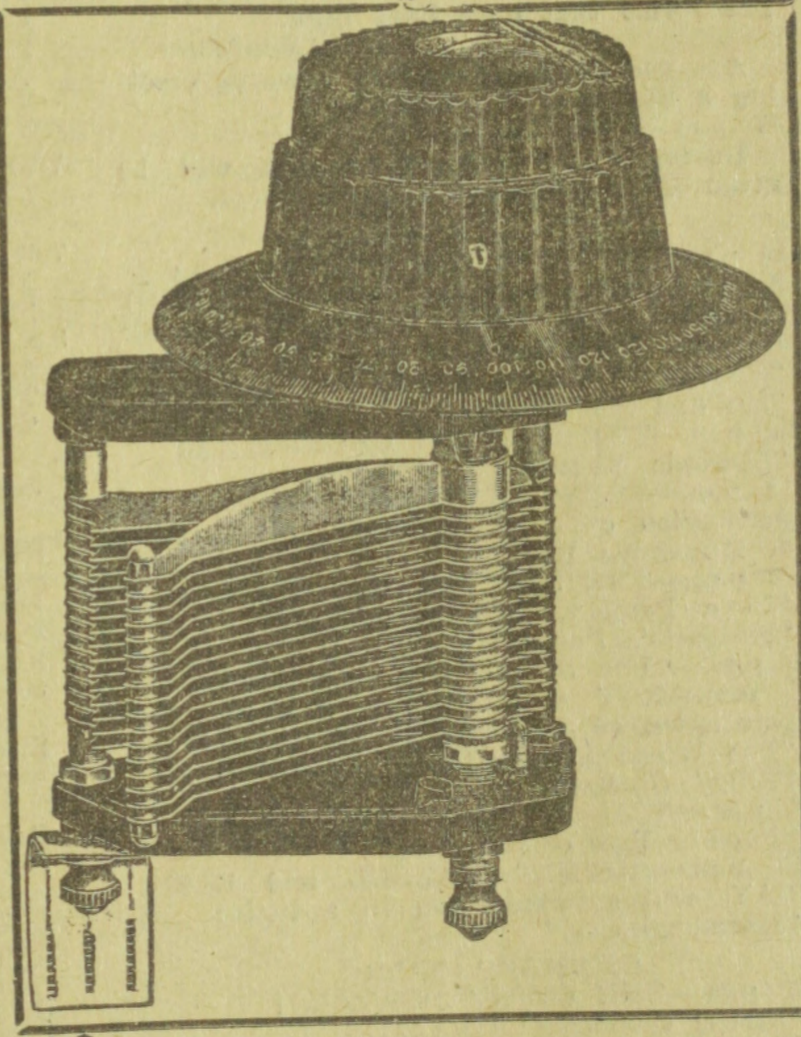

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TELEGRAMS: "Ormondengi, Kincross."

11.25 a.m.—Uunder the auspices of the Royal Victorian Institute of Architects, MISS A. G. WARWICK, A.R.V.I.A.:
"The Advantages of Built-in Furniture."
11.40 a.m.—Musical Interlude.
11.45 a.m.—"DOMINA" will conclude her series of talks on:
"Journalism for Women."

MIDDAY NEWS SERVICE.

12.0 noon.—MELBOURNE OBSERVATORY TIME SIGNAL.
12.1 p.m.—British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; "Argus" News Service.
12.15 p.m.—COMMUNITY SINGING in the Assembly Hall, Collins Street, Melbourne. Conductor, G. J. MACKAY, assisted by THE GYPSY PLAYERS.
We have pleasure in reintroducing our very good friends, RUPERT HAZELL and ELSIE DAY, who will entertain you with a little
"Harmonylarity."
AMBROSE McMAHON, Baritone:
"My Old Shako" (Trotere).
"Acushla Machree" (McDonald).
FROM THE STUDIO:
1.45 p.m.—Stock Exchange Information; Meteorological Information; Weather Forecast and Rainfall for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports; Announcements.
1.55 p.m.—THE SHRINE OF REMEMBRANCE:
This is the place. Stand still, my steed,
Let me review the scene,
And summon from the shadowy Past
The forms that once have been.
—Longfellow.
Are you doing your share towards erecting a Shrine of Remembrance?
1.56 p.m.—Close Down.
During the afternoon results will be given of the Richmond Trotting Races.

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:
Selection, "The Chocolate Soldier" (Strauss)
2.25 p.m.—JACK LUMSDAINE, Whispering Baritone (by permission of Tivoli Theatres, Ltd.):
"Kentucky's Way of Saying Good Morning."
"Me and My Shadow."
2.32 p.m.—THE STATION ORCHESTRA:
"Slavonic Rhapsody" (Friedman).
2.42 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.):
A Humorous Item.
2.50 p.m.—THE STATION ORCHESTRA:
"In a Persian Market" (Ketelby).
"Mosquito's Parade" (Whitney).
3.0 p.m.—Time Signal; Sporting Results.
3.1 p.m.—ROY GALLOWAY, Baritone (by permission of J. C. Williamson, Ltd.):
"The Wheel-tapper's Song" (Charles).
"Billy" (Coates).
3.8 p.m.—THE STATION ORCHESTRA:
"Popular Hits of the Week."
3.15 p.m.—RUPERT HAZELL and ELSIE DAY will entertain you in a little:
"Harmonylarity."

CHAMBER MUSIC.

3.30 p.m.—THE GYPSY PLAYERS:
"String Quartette" (Haydn).
3.40 p.m.—AGNES FORTUNE, Piano:
"Novelette" (Schumann).
3.47 p.m.—We now have great pleasure in introducing MINA HESELEVA, the well known Russian Soprano:
"Bell Song, Lakme" (Delibes).
"Nightingale" (Alabieff).
3.54 p.m.—THE GYPSY PLAYERS:
"Andante" (Dittersdorf).
"Rondo" (Mozart).
4.4 p.m.—BERTHA JORGENSEN, Violin:
"Sonata" (Handel).
4.12 p.m.—MINA HESELEVA, Soprano:
"Song of the Fish" (Arensky).
"We Sat Together" (Tschaikowsky).
4.19 p.m.—THE GYPSY PLAYERS:
"Quartette" (Mozart).

POPULARITIES.

4.30 p.m.—Sporting Results.
4.31 p.m.—THE STATION ORCHESTRA:
"Oriental" (Cue).
4.35 p.m.—JACK LUMSDAINE, Whispering Baritone:
"She's Just What the Doctor Ordered."
"I'd Climb the Highest Mountain."
4.41 pm..—Special Weather Report.
4.42 p.m.—THE STATION ORCHESTRA:
"Old Favourites."
4.47 p.m.—BERYL HAYDEN, Soubrette:
"Tommy Boy" (Du Soir).
Selected.
4.54 p.m.—THE STATION ORCHESTRA:
Selected.

NEWS SESSION.

5.0 p.m.—"Herald" News Service; Stock Exchange Information; Sporting Results
5.15 p.m.—Close Down.

EVENING SESSION.

6.0 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6.20 p.m.—DICKSON GREGORY, will tell the thrilling story of the stealing of:
"The S.S. 'Ferret.'"
6.35 p.m.—Musical Interlude.
6.40 p.m.—"BILLY BUNNY" will continue his stories about:
"The Australian Bush."

NEWS AND MARKET REPORTS.

7.0 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.
7.10 p.m.—"Herald" News Service; Weather Synopsis; Shipping Information.
7.12 p.m.—Stock Exchange Information.
7.17 p.m.—Fish Market Reports, by J. R. Borrett, Ltd.; Rabbit Prices.
7.19 p.m.—River Reports.
7.21 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 of Fruit by the Wholesale Fruit Merchants' Association; Citrus Fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the BOY SCOUTS' ASSOCIATION—DR. McADAM:
"Phases of Scout Training."
7.45 p.m.—E. C. H. TAYLOR, will speak to Young Australia about
"School Life and School Sport."
8.0 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MR. J. T. RAMSAY, Potato Expert:
"Storage of Seed Potatoes."
8.15 p.m.—Birthday Greetings and Programme Announcements; Girl Guide News.
"Music . . . a strange bird singing the songs of another shore."—J. G. Holland.
8.16 p.m.—Programme Arranged by THE UNIVERSITY CONSERVATORIUM OF MELBOURNE, under the direction of PROFESSOR BERNARD HEINZE:
Orchestra,
Overture, "Fingal's Cave" (Mendelssohn).
Sisca Navaretti, Soprano,
"Pace Mio Dio" (La Forza del Destino), (Verdi).
Orchestra,
Entractes and Ballet Music from "Rosamunde" (Schubert).
Lilian George, Soprano,
"Pleurez mes yeux" (Massenet).
"Obstination" (Fontenailles).
Orchestra,
"Symphony, No. 5" (Beethoven).
Dorothy Reseigh, Soprano,
"Mignon" (Thomas).
Orchestra,
"Peer Gynt Suite" (Grieg).
Sisca Navaretti, Soprano,
"Musetta's Aria" from "La Boheme" (Puccini).
"The Swan" (Grieg).
Vera Bradford, Pianist and Orchestra:
"Hungarian Fantasie" (Liszt).
Lilian George, Soprano,
"Who is Sylvia" (Schubert).
"Hark! Hark! the Lark." (Schubert).
Orchestra,
Entr'acte from "Manfred" (Reinecke).
Dorothy Reseigh, Soprano,
"My Lovely Celia"—Old English, arr. by L. Wilson.
"Milkmaids" (Dunhill).
Orchestra,
"Hornpipe" (L. Lavater).

NEWS SESSION.

10.16 p.m.—"Argus" News Session; Meteorological Information; British Official Wireless News from Rugby.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY IS:
"Reckless driving is not a demonstration of skill."
THE SHRINE OF REMEMBRANCE:
"THE NATIONAL WAR MEMORIAL" should commend itself to every man and woman in Victoria as a public acknowledgment of the debt due to the men who sacrificed their lives to maintain our national honor, to preserve our Empire, and our civilisation."—The Mayor of Bendigo.

SOME CARELESS SONGS AND A LITTLE NONSENSE.

10.27 p.m.—JACK LUMSDAINE, Whispering Baritone (by permission of Tivoli Theatres, Ltd.):
"That's a Good Girl."
"Thinking."
10.33 p.m.—THE STATION ORCHESTRA:
"The Little Clock on the Mantle."
"Over the Waves" (Rosas).
10.40 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.):
"I'm So Refined."
"Mr. Bear."
10.47 p.m.—THE STATION ORCHESTRA:
Selection, "Remmick's Hits."
10.54 p.m.—ROY GALLOWAY, Baritone (by permission of J. C. Williamson, Ltd.):
"The Yeomen of England" (Curnam).
"Eleanore" (Coleridge-Taylor).
11.0 p.m.—OUR GREAT THOUGHT:
"Wisdom is not found with those who dwell at their ease; rather nature, when she adds brain, adds difficulty."—Emerson.

DANCE MUSIC.

11.1 p.m.—THE VAGABONDS.
11.40 p.m.—GOD SAVE THE KING. 6

3AR, MELBOURNE

MONDAY, 16th APRIL, 1928.

EARLY MORNING SESSION.

9.15 a.m.—Description of the arrival of Mail Liner from Overseas at Princes Pier, Port Melbourne, by Mr. J. D. Porter, of the "Graphic."

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

MIDDAY CONCERT SESSION.
12.1 p.m. to 1.53 p.m.
Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.
ORCHESTRAL DANCE CONCERT.

Sport: During the afternoon the results of the Richmond Trots, together with other information, will be broadcast immediately each Race is run.
2 p.m.—Ayarz Dansonians:
A half-hour Dance Session of the latest popular dance hits by Melbourne's favorite Dance Band. Each one announced prior to its presentation.
2.30 p.m.—Melbourne Concert Orchestra:
"By the Lake of Geneva," part 1 (Bendel).
"Guy D'Hardelot's Popular Songs" (arr. Higgs).
2.48 p.m.—Miss Ethel Newman, Entertainer from the Palace Theatre, London:
In Monologues and Recitations.
2.56 p.m.—Melbourne Concert Orchestra:
"A Summer Night" (Carl Doud).
"La Furlane" (Lee Roberts).
3.10 p.m.—Miss Ethel Newman, Entertainer from the Palace Theatre, London:
In Recitations.
3.17 p.m.—Ayarz Dansonians.
3.30 p.m.—Interval Announcements.
3.40 p.m.—Melbourne Concert Orchestra:
"Margarette," from the Opera "Faust" (L. Stasny).
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second Weather Forecast.
4.3 p.m.—Miss Ruth Phillips, soprano:
"My Message" (D'Hardelot).
"Lullaby" (Gyril Scott).
4.10 p.m.—Ayarz Dansonians.
4.26 p.m.—Mr. Herbert Pettifer, violin:
"Serenata d'Amalfi" (Becce).

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1 .00025 Grid Condenser and Leak	0	3	6
10 Moulded Top Terminals	0	2	6
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1 Spring Clip	0	0	4
Bus Bar, doz.	0	0	10
Silver-plated Wood Screws, ½, ¾ and 1in., per doz.	0	0	3
N.P. Screws, with nuts, per doz.	0	1	0
Solder, per length	0	0	3
Flex Wire, per yard	0	0	3

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4.30 p.m.—Miss Ruth Phillips, soprano:
"I Live for You" (Thompson).
"Waltz Song from Tom Jones" (German).
4.38 p.m.—Melbourne Concert Orchestra.
4.50 p.m.—To-night's entertainment.
4.55 p.m.—Special Racing Report, Acceptances and Barrier Positions for the Kyneton Races, by "Daybreak."
5 p.m.—G.P.O. Clock says "Five."
"God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.

EVENING SESSION.
EVERYBODY'S CONCERT.

7.15 p.m.—Hobby Session: "Snapshot" of the Listeners-In will speak on Photography for Beginners.
7.25 p.m.—Sport Session: "Harlequin" presents his budget of up-to-date news and comments on Sport of the Day.
7.45 p.m.—Miss Stella Francis, leading lady in "The Joker," will talk from her dressing-room at the Athenaeum Theatre.
7.50 p.m.—Macnamara's Stock Report.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra:
Overture, "Raymond" (Thomas).
8.10 p.m.—Miss Julia Russell, soprano:
"Prelude" (Landon Ronald).
"A Night Idyll" (Loughborough).
8.17 p.m.—Ayarz Dansonians.
8.33 p.m.—Mr. Ernie Pettifer, saxaphone:
"Lament d'Amour" (Herzberg).
8.37 p.m.—Miss Julia Russell, soprano:
"Mimi's Song," from "La Boheme" (Puccini).
"Homing" (Del Riego).
8.45 p.m.—Melbourne Concert Orchestra:
"Polly" (Zamecnik).
8.50 p.m.—Announcements.
9.2 p.m.—Melbourne Concert Orchestra:
"Potpurri from the Geisha" (Sidney Jones).
9.15 p.m.—Mr. Leslie Williams, humorous entertainer:
"Birds of a Feather" (Williams).
9.22 p.m.—Ayarz Dansonians.
9.31 p.m.—"Harlequin": Sports results.
9.39 p.m.—Melbourne Concert Orchestra:
"Menuett" (Paderewski).
"Spanish Dances" (Moszkowski).
9.50 p.m.—Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-Final Weather Forecast, specially for our country listeners.
10.3 p.m.—Ayarz Dansonians.
10.19 p.m.—Mr. Ken. Code, trombone:
"Serenade" (Schubert).
10.23 p.m.—Mr. Leslie Williams, entertainer:
"Humorous Patter" (Con. West).
"The Lecturer" (C. H. Taylor).
10.31 p.m.—Melbourne Concert Orchestra:
Selection, "Fedora" (Giordano).
10.45 p.m.—"Harlequin" Sport Results.
10.52 p.m.—The "Age" News Bulletin, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "Life's Treasures," by Mary Gilmore.
11 p.m.—G.P.O. Clock says "Eleven."
"God Save the King."

4QG, BRISBANE.

MONDAY, 16th APRIL, 1928.

MORNING SESSION.

10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports. Weather information. "The Daily Mail" and "The Daily Standard" news.
1.30 p.m.—Lunch hour music.
158 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.
3.31 p.m.—A programme of music from the studio.
4.15 p.m.—"The Telegraph" news. Weather news.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—Mail train running times. "Daily Standard" news. Weather information. Announcements.
6.10 p.m.—A Science Talk: "The Beaver and His Architecture"—by Mr. Inigo Jones.
6.30 p.m.—Bedtime stories by "The Sandman."
7 p.m.—Special news service; Market reports; Stock reports.
7.30 p.m.—Weather news. Announcements.
7.43 p.m.—Standard time signal.
7.45 p.m.—Lecturette: "Interstate Pig Industry Conference"—by r. E. J. Shelton (Instructor in Pig Raising).

NIGHT SESSION.

A programme of music by the Brisbane Eisteddfod Choir of 100 voices (conductor, Mr. F. Robinson), relayed from the Brisbane School of Arts, comprising:—

(1) Selection of choral numbers from the recent Ipswich Eisteddfod:—Madrigal, "Fair Oriana Beauty's Queen" (Hilton); part-song, "The Leprehaun" (Bantock); ladies' chorus, "The Galway Piper" (Fletcher); mal echorus, "It Was a Lover and His Lass" (Dunhill).
(2) A Short Talk on the Eisteddfod Movement in Queensland by Mr. F. Robinson (Secretary of the Eisteddfod Council).
(3) A rendering at sight of the Madrigal in 5 parts, "Sweet Flowers You Were Too Fair" (Walmsley), set for the forthcoming Windsor Eisteddfod.
(d) Two selections set for the forthcoming Murwillumbah Eisteddfod:" Weary Wind of the West" (Elgar); "It Comes from the Misty Ages" (Elgar).

The choral numbers will be interspersed with duet, quartette, elocutionary and solo items by the choir.

8 p.m.—Brisbane Eisteddfod Choir.
10 p.m.—"The Daily Mail" news.
Close down.

5CL, ADELAIDE.

MONDAY, 16th APRIL, 1928.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Musical numbers on the Studio "Recreator."
12.50 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Musical numbers on the Studio "Recreator."
1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the studio "Recreator."
3.30 p.m.—Menu talk by "Homelover."
3.45 p.m.—Musical numbers on the Studio "Recreator."
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
5 p.m.—G.P.O. Chimes and colse down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's time with the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence.
7.8 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, Interstate Fruit and Produce Market Co. Ltd.
7.15 p.m.—Talk by Miss Tompkinson of the Aborigines Protection League.
7.30 p.m.—Resume of the previous Saturday's sporting in South Australia and other states.
7.40 p.m.—Entertainment for the 5CL Twinkler Boys Club.
8 p..m—G.P.O. Chimes.
8.1 p.m.—Solomon Sisters, Instrumental Trio,
"Extase" (Louis Gaune).
"Humoresque" (Anton Dvorak).
8.12 p.m.—Gerald Healy, tenor:
"Duna" (McGill).
"The girl of the Golden West" (Puccini).
8.19 p.m.—Solomon Sisters, Instrumental Trio,
"Melody" (Moszkowski).
8.26 p.m.—Vera Clarkson, soprano:
"The Moorish Maid" (Parker).
"Annie Laurie" (Lehmann).
8.33 p.m.—Solomon Sisters, Instrumental Trio,
"Minuet in G." (Beethoven).
8.40 p.m.—Gerald Healy, tenor:
"Oft in the Stilly Night."
8.44 p.m.—Selected Humour by Will Runge.
9.1 p.m.—Meteorological information.
Weather forecast.
Dalgety's Wheat report.
9.2 p.m.—British Wireless news.
9.8 p.m.—Relay from Glenelg, The Maison Dance Band.
9.30 p.m.—Vera Clarkson, soprano:
"I know a lovely garden" (D'Hardelot).
9.34 p.m.—Humorous, Will Runge.
9.42 p.m.—Solomon Sisters, Instrumental Trio,
"Spring Song" (Mendelssohn).
9.49 p.m.—Don Wildsmith, baritone:
"Captain Mac" (Sanderson).
9.52 p.m.—Relay from Glenelg, The Maison Dance Band.
10.1 p.m.—"Advertiser" News service.
Results of previous Saturday's racing.
10.10 p.m.—Solomon Sisters, Instrumental Trio:
"Overture to Martha."
10.20 p.m.—Don Wildsmith, baritone:
"Chip off the old block" (Squire).
"Song of the Waggoner" (Breville-Smith).
10.28 p.m.—Relay from Glenelg—Maison Dance Band.
10.55 p.m.—To-morrow's programme and meteorological information.
11 pm.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

MONDAY, 16th APRIL, 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, News, and Cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteoorlogical Bureau of Western Australia.
1.2 p.m.—Lunch hour music.
Brunswick Panatrope Hour relayed from Messrs. Musgrove's Limited, Concert Hall, Murray street.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Afternoon Tea Concert relayed from the Carlton Cafe, Hay street.
Vocal interludes from the studio.
4.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the Kiddies by Uncles Henry, Bertie and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk by Lieut. Col. Le Souef, Director of the Zoological Gardens, South Perth.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Band Night.
Concert by the R.S.L. Band, conducted by Mr. W. A. Halvorsen, relayed from the R.S.L. Institute.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within Range anouncement.
Weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

MONDAY, 16th APRIL, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes the hour.
11.1 a.m.—Special Midlands Weather forecast.
11.5 a.m—British Official Wireless news.
11.10 a.m.—Mercury morning news service.
11.30 a.m.—Shipping information.
Ships within wireless range.
Mail notices. Commercial news. Housewives guide. Foriegn Exchange Market Produce sales. Railway Sales.
11.45 a.m.—Musical selections.
11.50 a.m.—Whats Doing.
Amusement guide.
11.55 a.m.—Tasmanian Weather Stations 9 a.m. reports.
12 noon.—G.P.O. Clock chimes the hour.
Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest.
3.15 p.m.—Musical selections by 7ZL Studio Trio:
"Fairy Feet" (Finck).
Suite. "Sylman Scenes" (Fletcher.)
Valse, "Student Prince" (Romberg).
Violin solo. Selected. Mr. E. J. McCann.
Selection, "Sunny" (Kern).
Clarionet Solo. Selected. Mr. Arthur Young.
Valse, "Lente" (Marchetti).
Pianoforte Solo. Selected. Mr. Arthur Roberts.
4.15 p.m.—Fashion talk by Aunt Edna of Brownells Ltd.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Uncle Huberts half hour.
7 p.m.—Funny Man talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.35 p.m.—Cooking talk by Regulo.
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 the hour.
8.1 p.m.—Concert by Derwent Concert Band, Conductor, Mr. T. W. Hopkins.
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.
Weather reports from Australian Capital cities.
Station announcements.
Tuesday's programme.
10 p.m.—Close down.

Tuesday, April 17

2FC, SYDNEY

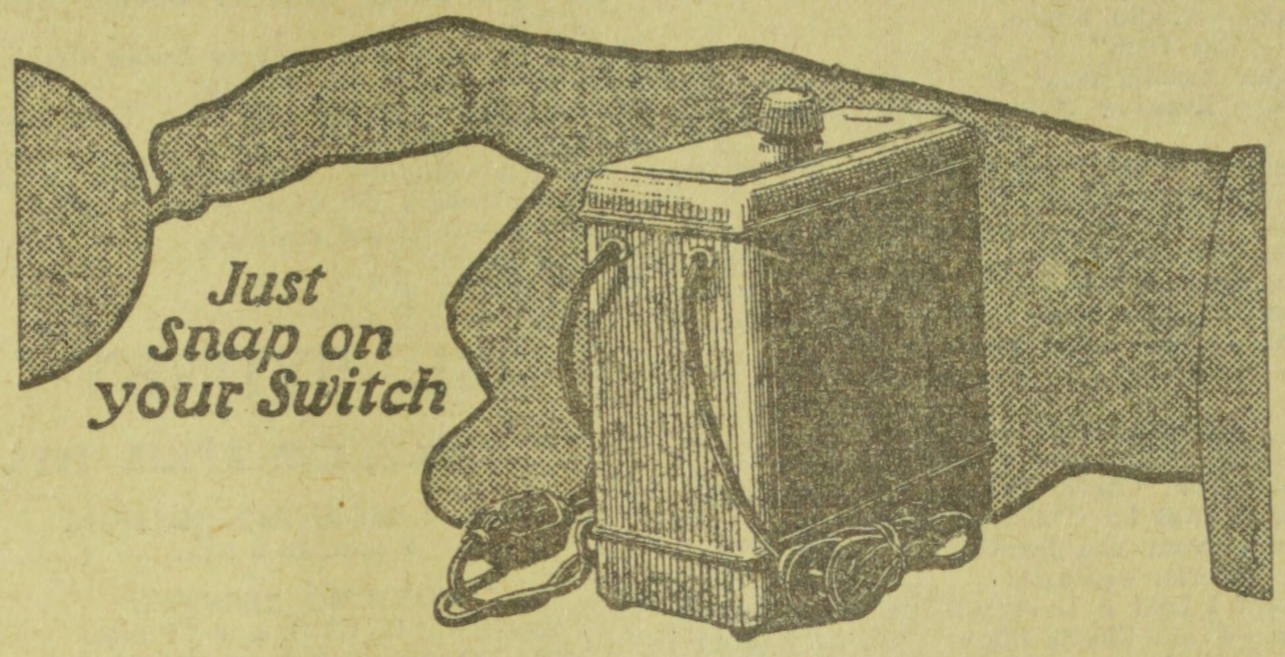
EARLY MORNING SESSION.
7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—Last minute Racing information by the 2FC Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben" and studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.15 a.m.—A Cooking talk by Miss Ruth Furst.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.



Here's a 180 volt "B" Eliminator at a price you don't mind paying

Acme Socket power provides constant radio power at the cost of a few pence per month. Added to economy is convenience. Just a snap of the switch and it's on. No trouble—no fuss ! Acme rectifies and filters ordinary house lighting current to specially suit your set.

For any number of valves an ACME

Wholesale :
New System Telephones Pty. Ltd.,
280 Castlereagh St., Sydney
181-3 King St., Melbourne
Charles St., Adelaide.

Acme Facts

Supplies up to 180 volts
Tappings for A.F., R.F. & Detector
Uses Raytheon Tube as Rectifier
A filter removes all hum
It is neat and compact
Three types are available
May be bought on easy terms.

ALL RELIABLE DEALERS

ACME
SOCKET POWER

12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby wireless news.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben."
Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Studio music.
Aileen Bear, mezzo.
1.34 p.m.—Studio music.
1.55 p.m.—Aileen Bear, mezzo.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—From Christ Church, St. Laurence:
Organ Recital by Christian Hellemann.
3.20 p.m.—From the Studio:
Helen Morris, soprano:
"Far Off I hear a Lover's Flute" (Cadman).
3.25 p.m.—From Christ Church, St. Laurence:
Organ solos by Christian Hellemann.
3.40 p.m.—From the Studio:
Nita Lee, soubrette:
"Thinking of Me To-night" (Davis and Askt).
"My Blue Heaven" (Donaldson).
3.45 p.m.—From Christ Church, St. Laurence:
Further Items from the Organ Recital by Christian Hellemann.
4 p.m.—"Big Ben."
From the Studio:
Helen Morris, soprano:
"Good Morning, Brother Sunshine" (Lehmann).
4.5 p.m.—From Christ Church, St. Laurence:
Further Items from the Organ Recital by Christian Hellemann.
4.20 p.m.—From the Studio:
A talk by "Delisse."
4.35 p.m.—Nita Lee, soubrette.
4.40 p.m.—Studio music.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk:
Fairy Tales told by "Aunt Eily."
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben."
Late sporting news.
7.10 p.m.—Dalgety's Market Reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping intelligence.
7.26 p.m.—"Evening News" late news services.

NIGHT SESSION.

7.45 p.m.—Programme announcements.
7.50 p.m.—N.S.W. Tramway Band.
8 p.m.—"Big Ben."
The Sydney Harmonic Choir, conducted by W. Bourne.
8.10 p.m.—N.S.W. Tramway Band.
8.26 p.m.—Ian Iredale, tenor.
8.34 p.m.—The N.S.W. Tramway Band.
8.50 p.m.—The Sydney Harmonic Choir.
Conductor, W. Bourne.
9 p.m.—"Big Ben."
Lionel Lawson, violinist.
9.10 p.m.—Lionel Lunt, baritone:
(a) "Il Balen." Aria from "Il Trovatore" (Verdi).
(b) "Beyond the Night" (Meale).
9.18 p.m.—The N.S.W. Tramway Band.
9.28 p.m.—The Sydney Harmonic Choir.
9.38 p.m.—Lionel Lawson, violinist.
9.48 p.m.—Ian Iredale, tenor.
9.56 p.m.—Charles O'Mara, entertainer:
(a) "Molly Branigan" (arr. Stanford).
(b) "The Auld Plaid Shawl" (Haynes).
10.5 p.m.—A late booking.
10.20 p.m.—Lionel Lunt, baritone:
(a) "Lilies of Lorraine" (Connor).
(b) "You" (Hamblem).
10.30 p.m.—Late weather forecast.
The Ambassadors Dance Orchestra, conducted by Al. Hammet.
10.40 p.m.—From the Studio:
Charles O'Mara, entertainer:
(a) "Killaloo" (McGlennon).
(b) "The Rocky Road to Dublin" (Glover Kind).
10.47 p.m.—The Ambassadors Dance Orchestra.
10.57 p.m.—From the Studio:
To-morrow's programme and late news.
11 p.m.—"Big Ben."
The Ambassadors Dance Orchestra in popular numbers till 11.45 p.m.
11.45 p.m.—National Anthem.
Close down.

2BL, SYDNEY

TUESDAY, 17th APRIL, 1928.

EARLY MORNING SESSION.
8 a.m. to 9 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and Chimes.
Musical programme from the Studio.
11 a.m.—G.P.O. Clock and Chimes.
Social Notes—Replies to correspondents.
Talk on "Toilet Hints," by Mademoiselle Vitkowska.
12 noon.—G.P.O. Clock and Chimes.
Special Ocean forecast and Weather report.
12.3 p.m.—Musical programme from the Studio.
12.8 p.m.—Information—Mails, Shipping, Arrivals, Departures and Sailings.
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.—Grain and Produce Market report.
12.22 p.m.—Forage Market report.
12.24 p.m.—Fish Market report.
12.26 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.
2 p.m.—G.P.O. Clock and Chimes.
Close down.

AFTERNOON SESSION.

Race results 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 Stores Trio, direction, Miss de Courcey Bremer.
3.30 p.m.—G.P.O. Clock and chimes
News from the "Sun"
3.40 p.m.—Pianoforte Recital from the Studio.
3.50 p.m.—News from the "Sun."
4 p.m.—G.P.O. Clock and Chimes.
Civil Service Stores Trio.
4.15 p.m.—Talk on "The Women of Ancient Rome."
4.35p.m.—Musical programme from the Studio.
4.50 p.m.—News from the "Sun."
4.55 p.m.—Features of evening's programme.
4.57 p.m.—Producers Distributing Society's Poultry report.
4.59 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.

SPECIAL COUNTRY SESSION.

6.30 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast by courtesy of Government Meteorologist.
Producers Distributing Society's Fruit and Vegetable market report.
Stock Exchange report.
Grain and Fodder report ("Sun").
Dairy Produce report ("Sun").
N.R.M.A. Talk.
6.45 p.m.—Country news from the "Sun."
7 p.m.—G.P.O. Clock and chimes.
Dinner Music.
7.30 p.m.—Talk on "First Aid," by Mr. Wilkinson, District Superintendent St. John Ambulance Association.

NIGHT SESSION.

8 p.m.—G.P.O. Clock and chimes.
Broadcasters Topical Chorus.
8.3 p.m.—An Hour's programme of Scandinavian music.
Mr. Clement Q. Williams, baritone.
8.15 p.m.—Mr. Haagen Holenbergh, pianist.
8.23 p.m.—Miss Hilda Boyle, soprano:
8.33 p.m.—Mr. Clement Q. Williams.
8.43 p.m.—Mr Haagen Holenbergh.
8.53 p.m.—Miss Hilda Boyle.
9.3 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
9.4 p.m.—The Sydney Welsh Male Voice Party.
9.11 p.m.—Tooth's Brewery Band.
9.31 p.m.—The Sydney Welsh Male Voice Party.
9.38 p.m.—Tooth's Brewery Band.
9.58 p.m.—Sketch by Miss May Nancarrow and Mr. William Collins.
10.10 p.m.—Resume of following day's programme.
10.15 p.m.—The Wentworth Cafe orchestra, under the direction of Mr. S. Simpson, broadcast from the Wentworth. During intervals between dances "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Cloc kand chimes.
National Anthem.

2 UW, SYDNEY

TUESDAY, 17th APRIL, 1928.

EVENING SESSION.

7 p.m.—Studio items.
7.10 p.m.—Where to Go Session.
7.14 p.m.—Dinner music.
7.30 p.m.—Mr. and Mrs. Campbell, steel guitar duets
7.37 p.m.—Studio items.
7.45 p.m.—Mrs. Campbell, pianoforte solo:
Selected.
7.52 p.m.—Studio items.
8 p.m.—News items and shipping intelligence.
8.10 p.m.—Mr. and Mrs. Campbell, steel guitar duets.
8.17 p.m.—Studio items.
8.21 p.m.—Gems of the Opera:
"Lohengrin" (Wagner).
Arranged and presented by Mr. G. F. Manuel
9.30 p.m.—Dance music.
9.55 p.m.—Announcements.
10 p.m.—Close down.

3LO, MELBOURNE.

TUESDAY, 17th APRIL, 1928.

EARLY MORNING SESSION.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.

APPLE CHARLOTTE.

1lb. apples, 2oz. butter, lemon, 4oz. breadcrumbs, 3oz. sugar, little milk.

METHOD: (1) Butter a pie dish. (2) Peel and slice the apples. (3) Place alternate layers of breadcrumbs, apples, sugar and lemon juice till pie dish is full. (4) Cover the top with crumbs and add a few pieces of butter. (5) Bake in slow oven about one hour, till apples are soft and crumbs brown. (6) Turn on to hot dish and sprinkle with sugar and serve.

THE GLORY OF THE GARDEN.—The wise gardener is he who hoes and then hoes again to keep the surface of his bulb bed free and open. In some districts the recent rains, after the dry summer, have driven plants to make excessive growth. This should be pinched off. Carrots are best sown broadcast. They will then do well, and as the young plants make growth commence thinning out. But do not be too drastic with this. Good results are obtained in cooking with the young carrots.

ENCOURAGE YOUR CHILDREN TO HAVE BOTH FLOWER AND VEGETABLE GARDENS.

11.5 a.m.—MISS E. NOBLE, cooking with a gas stove:
"Preparing cold sweets, jellies and creams."
11.20 a.m.—Musical interlude.
11.25 a.m.—MRS. DOROTHY SILK:
"Homecrafts."
11.40 a.m.—Musical interlude.
11.45 a.m.—Under the auspices of the FREE KINDERGARTEN UNION, Miss R. G. HARRIS, publicity officer, will speak on:
"Social Clubs and Guilds in connection with Free Kindergarten."

MIDDAY NEWS SERVICE.

12 noon.—MELBOURNE OBSERVATORY TIME SIGNAL.
12.1 p.m.—Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.

MIDDAY SESSION.

12.20 p.m.—THE GYPSY PLAYERS:
"Two Norwegian Dances," 1 and 11 (Grieg).
12.30 p.m.—J. ALEXANDER BROWNE, baritone:
"The Jolly Miller" (Quilter).
"Over the Mountains" (Quilter).
12.37 p.m.—Stock Exchange information.
12.40 p.m.—THE GYPSY PLAYERS:
"Two Mexican Dances" (Viderique).

INTERLUDE.

12.47 p.m.—THE FARMERS' CONVENTION, OFFICIAL LUNCHEON. Speeches transmitted from Town Hall, Kerang.

FROM THE STUDIO.

1.17 p.m.—THE GYPSY PLAYERS:
"Hungarian Dances" (Brahms).
1.24 p.m.—J. ALEXANDER BROWNE, baritone:
Irish Folk—"The next market day" (Kennedy).
"She moved through the fair" (Kennedy).
1.33 p.m.—THE GYPSY PLAYERS:
"Spanish Dance" (Moszkowski).
1.45 p.m.—Close down.

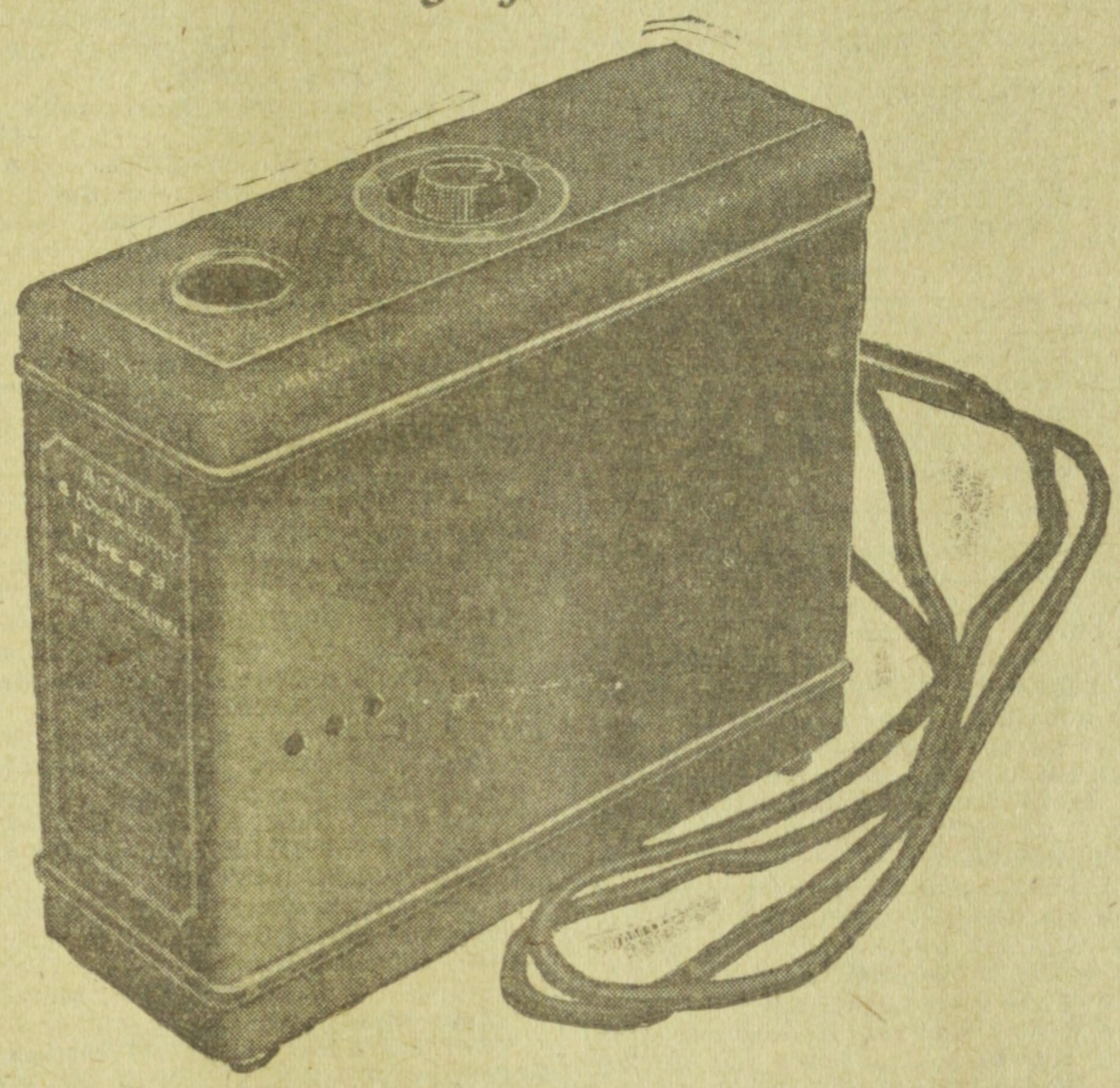
AFTERNOON SESSION.

2.15 p.m.—THE VAGABONDS:
"Doctor Jazz" (Melrose).
"Kiss and make up" (Miller).
"Where is my Meyer" (Gilbert).
2.24 p.m.—JACK LUMSDAINE, the radio rascal (by permission Tivoli Theatres, Ltd.):
"Maori Maiden."
"Blue Heaven."
2.31 p.m.—THE VAGABONDS:
"Millinberg Joys" (Morton).
"Cross your heart" (Pencler).
"Baby's feet go pitter patter" (Kahn).
2.40 p.m.—BERYL HAYDEN, soubrette (by permission J. C. Williamson, Ltd.):
"They catch 'em young."
Selected.
2.47 p.m.—THE VAGABONDS:
"I've got somebody now" (Williams).
"Bless her little heart" (Deunicker).
"Shanghai Dream Man" (Davis).
2.56 p.m.—AMBROSE McMAHON, baritone:
"Muleteer of Malaga" (Trotere).
"A Farewell" (Liddle).
3.3 p.m.—THE VAGABONDS:
"Just a memory" (Henderson).
"Persian Rosebud" (Leslie).
"Love is just a little bit of Heaven" (Bryan).
3.12 p.m.—RUPERT HAZELL AND ELSIE DAY in:
"Harmonylarity."
3.27 p.m.—THE VAGABONDS, with OLIVER PEACOCK:
Popular Jazz Hits.
3.36 p.m.—ROY GALLOWAY, baritone (by permission J. C. Williamson, Ltd.):
"Trawlers, Ahoy" (Elliott).
"Hullo" (Crimp).
3.43 p.m.—THE GYPSY PLAYERS:
Overture, "Fingal's Cave" (Mendelssohn).

"ACME"

Socket Power

eliminates worry of run-down batteries



Modernize your Receiver!

" ACME " operates any set, with any valves, from your ordinary electric-light socket. Think what this means! No " B " batteries to bother about; up to 180 volts—smooth direct current; no hum, no distortion! Improved tones due to the unlimited reserve power; clearer, deeper and more natural reception. This eliminator will bring you a new appreciation of radio. It is economical too, for the first cost is practically the last. Price, **£10/15/-**

As a rectifier, the famous " RAYTHEON " Valve is employed. This tube, better known in U.S.A., is a synonym for simplicity, rugged construction, long life and general efficiency. It contains no filament, gives full-wave rectification and is easily replaced. Visit the Wireless Department and inspect this amazing accessory.

GROUND FLOOR, NEW BUILDING

FARMER'S

Pitt, Market and George Streets

3.50 p.m.—MINA HESELEVA, soprano:
"L'ete" (Chaminade).
"The Soldier's Wife" (Rachmaninoff).
3.57 p.m.—DOROTHY ROXBURGH, viola:
"Spring Song" (Mendelssohn).
4.3 p.m.—ROY GALLOWAY, baritone:
"O, lovely night" (Landon Ronald).
Selected.
4.10 p.m.—THE GYPSY PLAYERS:
"Piano Quartet" (Mendelssohn).
4.17 p.m.—HELGA BRENNICKE, 'cello:
"On wings of song" (Mendelssohn).
4.22 p.m.—MINA HESELEVA, soprano:
"Mad Scene"—"Hamlet" (Thomas).
"How sad" (Rachmaninoff).
4.29 p.m.—THE GYPSY PLAYERS:
"Canzonetta" (Mendelssohn).
"Scherzo" (Mendelssohn).
4.39 p.m.—JACK LUMSDAINE, the radio rascal:
"I'm tickled to death, I'm single."
"Just like a butterfly."
4.45 p.m.—Weather report from Adelaide. Weather report from Mildura district.
4.46 p.m.—THE VAGABONDS:
"I'm loney without you" (Warren).
"My blue heaven" (Donaldson).
"Just around the corner."
4.55 p.m.—BERYL HAYDEN, soubrette:
"Some imitations."
"I might learn to love him later on."
5 p.m.—"Herald" news service.
Stock Exchange information.
5.15 p.m.—Close down.

EVENING SESSION.

6 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."
6.20 p.m.—HAVE YOU A GARDEN? IF NOT, WHY NOT? It's the most fascinating hobby in the world! Just you listen to what "BILLY BUNNY" thinks about it—he has a beautiful garden of his own and will give you all one or two hints on how to set about making yourself a "fairy garden." SEND TO 3LO FOR SOME SEEDS.
6.25 p.m.—CAPTAIN DONALD McLEAN:
"Spanish Conquests."
"How the Dons discovered the treasures of the world."
6.40 p.m.—Musical interlude.
6.45 p.m.—"BILLY BUNNY":
"Stories of the Australian Bush."
7 p.m.—Official report of Newmarket stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne.
7.10 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
7.12 p.m.—Stock Exchange information.
7.17 p.m.—Fish market reports by J. R. Borrett, Ltd. Rabbit prices.
7.19 p.m.—River reports.
7.21 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, grain, hay, straw, jute, dairy produce, onions and potatoes. Market reports of fruit by the Victorian Fruitgrowers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the ROYAL AUTOMOBILE CLUB OF VICTORIA, LTD. CHAS. J. P. HODGES, secretary of the club, will speak on:
"The Month in Motordom."
7.45 p.m.—Under the auspices of the UNIVERSITY EXTENSION BOARD, H. SCOTT BENNETT, lecturer in public speaking for the board:
"How to concentrate."
8 p.m.—A. W. JACKSON will speak on:
"Golf."
8.15 p.m.—Birthday greetings and programme announcements.
THE SHRINE OF REMEMBRANCE:
"The Great War was a severe test of the character of the men and women of this State, but they were equal to the trial and through sacrifice rendered the nation a great and noble service, which will never be forgotten."
—Director of Land Settlement.

"Music is the mediator between the spiritual and the sensual life. Although the spirit be not master of that which it creates through music, yet it is blessed in this creation, which, like every creation of art, is mightier than the artist."—Beethoven
8.18 p.m.—MINA HESELEVA, soprano:
"Caro Nome"—Rigoletto (Verdi).
"Away at the river" (Arensky).
8.25 p.m.—TASMA TIERNAN, 'cello:
"Softly awakes my heart"—Samson and Delilah (Saint Saens).
8.32 p.m.—ERNEST SAGE, baritone:
"The first primrose" (Grieg).
"A Swan" (Grieg).
"There let the pealing organ blow,
To the full voiced quire below,
In service high, and anthems clear,
As may with sweetness, through mine ear,
Dissolve me into ecstasies,
And bring all heaven before mine eyes."
—Milton.
8.40 p.m.—ORGAN RECITAL. MANSLEY GREER, transmitted from Scots' Church, Collins Street, Melbourne, assisted by COLIN THOMSON, tenor.
MANSLEY GREER, organ:
"Marche Funebre et chant seraphique" (Guilmant).
COLIN THOMSON, tenor:
"Comfort ye my people—Messiah" (Handel).
MANSLEY GREER, organ:
"Prelude and Fugue in C minor" (Bach).
FROM THE STUDIO.
9.5 p.m.—CAPTAIN DONALD MacLEAN:
"The Marie Celeste."
9.20 p.m.—ERNEST ORAM and the TIVOLI THEATRE ORCHESTRA, transmission of the second half of a programme, from Tivoli Theatre, Bourke Street, Melbourne.
FROM THE STUDIO.
10.25 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby. Sporting notes by "Olympus." THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS:
"The traffic officer has a difficult job at the best and drivers should make every effort to assist him."
10.35 p.m.—MINA HESELEVA, soprano:
"Slave Song" (Del Riego).
"None but a loney heart" (Tschaikowsky).
10.42 p.m.—THE STATION ORCHESTRA:
Selected.
10.53 p.m.—ERNEST SAGE, baritone:
"Youth" (Allitsen).
"Annie Laurie."
11 p.m.—OUR GREAT THOUGHT:
"The direst misery is the result of a self-centred life. Unhappiness cannot exist in its keenest form where self is forgotten."
—Hugh Black.
11.1 p.m.—THE VAGABONDS:
Dance music.
11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

TUESDAY, 17th APRIL, 1928.

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

MIDDAY CONCERT SESSION.
12.1 p.m. to 1.54 p.m.
Transmitted from Panatrope House 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.
ORCHESTRAL DANCE CONCERT.

2 p.m.—Ayarz Dansonians:
A half-hour Dance Session by Melbourne's favorite Dance Band. All the latest popular hits, each one announced prior to its presentation.
2.30 p.m.—Melbourne Concert Orchestra:
Selection, "Andre Chenier" (Giordano).
2.46 p.m.—Miss Frances Dillon, soprano:
"The Fairies' Complaint" (R. Clarke).
"Lullaby" (Cyril Scott).
2.53 p.m.—Melbourne Concert Orchestra:
"Carmen—Rhapsodie" (Bizet).
3.11 p.m.—Miss Frances Dillon, soprano:
"Swing Low, Sweet Chariot" (Burleigh).
"Bird Songs at Eventide" (Coates).
3.18 p.m.—Ayarz Dansonians.
3.30 p.m.—Interval announcements.
3.35 p.m.—Madamoiselle Jeunesse: Interval talk on Timely Topics of Interest to our Lady Listeners.
3.45 p.m.—Melbourne Concert Orchestra:
"Souvenir de Chopin" (Fetras).
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second weather forecast.
4.3 p.m.—Mr. Robert Adams, cornet:
"Macushla" (Margetson).
4.6 p.m.—Mr. Robert Allen, alto.
"The Threshold" (Russell).
"Juanita" (Norton).
4.14 p.m.—Ayarz Dansonians.
4.29 p.m.—Mr. Robert Allen, alto:
"The Arrow and the Song" (Balfe).
"Brian of Glenaar" (Graham).
4.37 p.m.—Melbourne Concert Orchestra:
"Der Grof von Luxemburg" (Lehar).
4.55 p.m.—Announcements. To-night's entertainment.
5 p.m.—G.P.O. Clock says "Five."
"God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's Entertainment.

EVENING SESSION.

ORCHESTRAL CONCERT.

7.20 p.m.—Dr. Floyd, Organist and Choirmaster at St. Paul's Cathedral, Melbourne, will talk on "The Art of Listening."
7.30 p.m.—A broadminded and up-to-date short talk by "Friar Tuck":
"Love."
7.35 p.m.—Sport Session: "Harlequin" presents his budget of up-to-date news and comments on Sport of the Day.
7.50 p.m.—Macnamara's Stock Report.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra:
Overture, "Zampa" (Herold).
8.9 p.m.—Miss Isabel F. Wood, soprano:
"I Love the Moon" (Paul Rubens).
"Memory's Garden" (Lucien Denni).
8.16 p.m.—Mr. C. Richard Chugg, flute:
"Chanson" (Whittaker).
8.20 p.m.—Ayarz Dansonians.
8.39 p.m.—Miss Isobel Woods, soprano:
"Robin Adair" (Old English).
"Ye Banks and Braes" (Old Scotch).
8.46 p.m.—Mr. Ernie Pettifer, saxaphone:
"Saxena" (Wiedoeft).
8.50 p.m.—Announcements.
9.2 p.m.—Melbourne Concert Orchestra:
"Handel's Riches" (Urbach).
"Romeo's Farewell to Juliet" (Baron).
9.19 p.m.—Mr. James Scott, bass-baritone:
"When I was a Bachelor" (Gregory).
"Diaphenia" (Samuels).
9.26 p.m.—Miss Ethel Brearley, piano:
"Fifth Valse" (Godard).
9.30 p.m.—"Harlequin": Sport results.
9.38 p.m.—Ayarz Dansonians.
9.50 p.m.—Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-Final Weather Forecast, specially for our country listeners.
10.3 p.m.—Melbourne Concert Orchestra:
Suite, "Ballet Suite" (Gretry-Mottl).
"Three Pictures from Syria" (Montague Ring).
10.23 p.m.—Mr. James Scott, bass-baritone:
"Harpenden Common" (Buchanan).
"The Jolly Sailor" (Squire).
10.31 p.m.—Ayarz Dansonians.
10.45 p.m.—"Harlequin": Sport results.
10.52 p.m.—"Age" News Bulletin, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "Unshriven," by Adam Lindsay Gordon.
11 p.m.—G.P.O. Clock says "Eleven."
"God Save the King."

4QG, BRISBANE.

TUESDAY, 17th APRIL, 1928.

MORNING SESSION.
10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports. Weather information "The Daily Mail" and "The Daily Standard" news.
1.30 p.m.—Lunch hour music.
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.
3.31 p.m.—Afternoon tea music.
4.15 p.m.—"The Telegraph" news.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

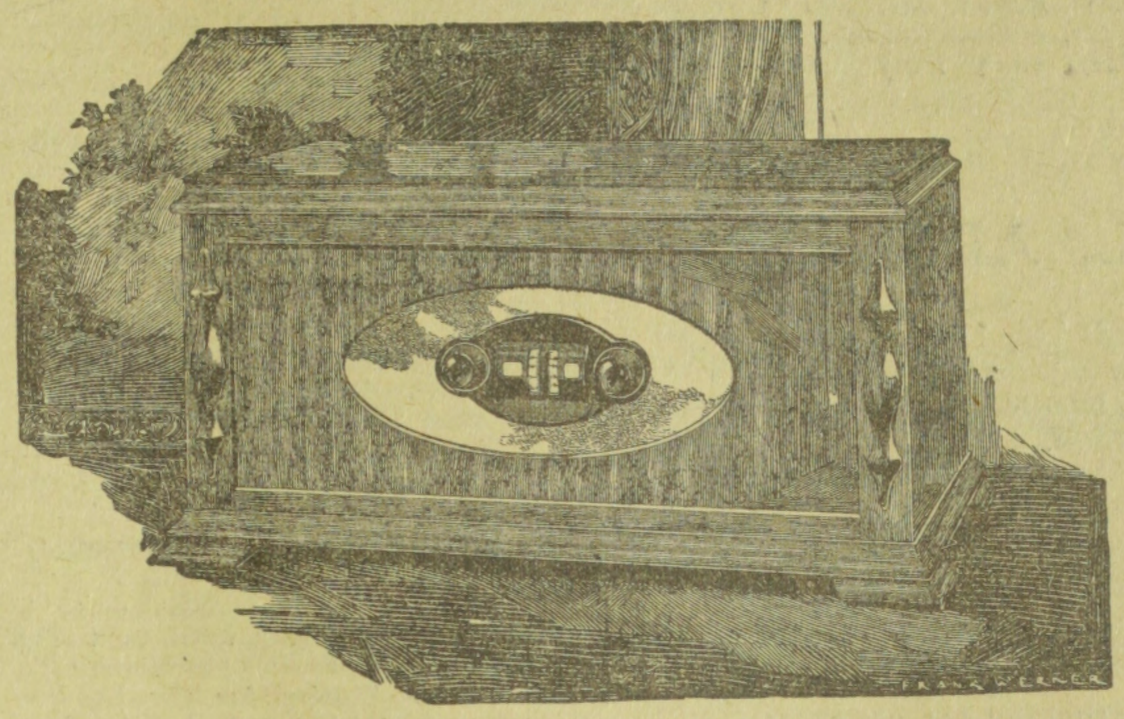
6 p.m.—Mail train running times; "Daily Standard" news. Announcements.
6.15 p.m.—Dinner music.
Stories by "The Sandman."
7 p.m.—Special news service. Market reports. Stock reports.
7.30 p.m.—Weather news. Announcements.
7.43 p.m.—Standard time signal.
7.45 p.m.—Lecturette: A Talk on "Photography," by Mr. F. L. South (Manager Kodaks, Ltd.).

NIGHT SESSION.

8 p.m.—An hour's programme by "The Richmond Party."
Instrumental Trio:
"Symphonie Concertante," No. 4, Op. 98 (Charles Dancla).
Mr. Jack Ellis, Miss M. Auld, Mr. Max Aronsten.
Mezzo-soprano solo:
"The Little Damozel" (Novello).
Mrs. W. F. Hamilton.
Violin Solo: "Sans Paroles" (Squire).
Miss Margaret Auld.
Baritone solos:
(a) "A River Song" (Wargrave).
(b) "Cargoes" (Coningsby Clarke).
Mr. Max Aronsten.
Pianoforte solo:
"Nocturne in F-Sharp" (Chopin).
Mr. Jack Ellis.
Vocal Duet: "Kingfisher Blue" (Amy Woodforde Finden).
Mrs. W. F. Hamilton & Mr. Max Aronsten
Instrumental Trio:
"Waltz from Serenade," op. 48 (Tschaikowsky).
Mr. Jack Ellis, Miss Margaret Auld, and Mr. Max Aronsten.
Violin solo: "Adoration" (Borowski).
Mr. Max Aronsten.
Mezzo-soprano solos:
(a) "What's in the Air To-day?" (Robert Eden).
(b) "Bird Songs at Eventide" (Eric Coates).
Mrs. W. F. Hamilton.
Baritone solo:
"Gloria" (Buzzi-Peccia).
Mr. Max Aronsten.
Pianoforte solo:
Pianoforte solo:
"Capriccio in B Minor" (Brahms).
Mr. Jack Ellis.
Vocal Duet:
"A Night in Venice" (Lucantoni).
Mrs. W. F. Hamilton and Mr. Max Aronsten.
Instrumental Trios:
"Entr'acte de Rosamonde" (Schubert—arr. Hermann).
"Merry Wives of Windsor" (Nicolai—arr. Hermann).
Mr. Jack Ellis, Miss M. Auld, and Mr. Max Aronsten.
9 p.m.—Metropolitan Weather forecast.

PART II.

9.3 p.m.—The Story of "Faust" (Gounod), arranged by Miss Alice Raven and presented by her party of radio artists.
Vocal and Orchestral numbers:
(1) "Easter Carols."
(2) "Cavatina."
(3) "The Flower Song."



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DAVID JONES'

Castlereagh, Market & Elizabeth Streets

(4) "The Jewel Song."
(5) "When All Was Young."
(6) "The Death of Valentine."
(7) "Angels Chorus."
Artists:—Mrs. Morris, Miss Italia Guyatt, Miss Alice Raven, Mr. Leo Guyatt, Mr. Albert Falk, 4QG Orchestra.
10 p.m.—"The Daily Mail" news. Weather news.
Close down.

5CL, ADELAIDE.

TUESDAY, 17th APRIL, 1928.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and British Wireless News.
12.30 p.m.—Musical numbers on the Studio "Recreator."
12.50 p.m.—S. C. Ward's Stock Exchange Intelligence.
12.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the Studio "Recreator."
3.45 p.m.—Talk by Rev. G. E. Hale, B. A.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers on the Studio "Recreator."
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's entertainment by the 5CL Radio Family.
6.30 p.m.—Dinner Music on the Studio "Recreator."
6.50 p.m.—General Market reports by by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S.A. Farmers Co-operative Union, Taylor Bros. Retail Grocers Association, Interstate Fruit and Produce Market Co. Ltd.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—Stock Exchange Intelligence by S. C. Ward and Co.
7.10 p.m.—British Wireless News.
7.25 p.m.—Gardening talk by Lasscocks Nurseries, Lockleys.
7.40 p.m.—5CL Bluebird Girls Club entertainment.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Railways Band.
8.11 p.m.—Jean Sinclair, contralto:
"Melisande in the Woods" (Goetz).
"The Silver Ring" (Chaminade).
8.18 p.m.—Railways Band.
8.28 p.m.—Humorous interludes by George Horton.
8.36 p.m.—Railways Band.
8.43 p.m.—Jean Sinclair, contralto:
"Waters of Minnetonka" (Lieurance).
8.47 p.m.—Railways Band.
9.1 p.m.—Meteorological information. Weather forecast and Dalgety's Wheat report.
9.2 p.m.—British Wireless news.
9.8 p.m.—More Humour by George Horton.
9.15 p.m.—Railways Band.
9.22 p.m.—Hadyn Male Quartette.
9.29 p.m.—Harry Hutchins, Violinist,
"Obertass" (Wieniawski).
9.37 p.m.—Railways Band.
9.44 p.m.—Mrs. Keith Steward, soprano:
"Come along Fairies."
"Love is meant to make us glad."
9.51 p.m.—Haydn Male Quartette.
9.58 p.m.—Railways Band.
10.5 p.m.—"Advertiser" news service.
10.15 p.m.—"Windbag's" Sporting Service.
10.25 p.m.—Harry Hutchins, violinist.
"Moderato from Fantasia Apassionata" (Vieuxtemps).
10.34 p.m.—Mrs. Kieth Steward, soprano:
"Whatever is, is best."
10.38 p.m.—Relay from Glenelg, The Maison Dance Band.
10.55 p.m.—To-morrow's programme and meteorological information.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

TUESDAY, 17th APRIL, 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, news, and cables.
1 p.m.—Time signal.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Instrumental Trio:
"Chelsea China" (Besley).
Selection, "Cleopatra" (Wood).
1.30 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Organ music relayed from the Grand Theatre, Murray street.
Vocal and instrumental numbers from the Studio.
4.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcsat on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the Kiddies by Uncles Henry, Bertie and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk: "Books of the Month" by Mr. J. P. Bathgate.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Concert Night.
Musical programme from the studio, including vocal and instrumental artists.
10 p.m.—Late News items by courtesy of "The Daily News" Newspaper Co.
Ships within range announcement.
Weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

TUESDAY, 17th APRIL, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes the hour.
11.1 a.m.—Special Midlands Weather forecast.
11.10 p.m.—Mercury morning news service.
11.30 a.m.—Shipping information.
Ships within wireless range.
Mail notices. Commercial news. Housewives guide. Foreign Exchange markets. Produce sales. Railway sales.
11.45 a.m.—Musical selections.
11.50 a.m.—Whats Doing.
Amusement guide.
11.55 a.m.—Tasmanian Weather Stations 9 a.m. reports.
12 noon.—G.P.O. Clock chimes the hour.
Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selections.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of Interest.
3.15 p.m.—Selections by 7ZL Studio Trio:
"First Love" (Michiels).,
"Russle of Spring" (Sinching).
Valse, "Boston" (Grigo).
Clarionet Solo. Mr. A. Young.
"Inclodia" (Carosio).
Violin Solo. Selected. Mr. E. J. McCann.
Pianoforte Solo. Selected. Mr. Arthur Young.
4.15 p.m.—Educational Talk.

EARLY EVENING SESSION.

6.30 p.m.—Cousin Mac's half hour.
7 p.m.—Uncle Hector's corner.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.35 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 the hour.
8.1 p.m.—Broadcast by Direct wire Prince of Wales Theatre, Hobart:
Selections by Prince of Wales Orchestra.
Conductor. Mr. E. J. McCann.
9.50 p.m.—British Official Wireless news.
Mercury special Interstate news service.
Tasmanian District Weather reports.
9 p.m. weather forecasts.
Weather reports from Australian Capital cities.
Station announcements.
Wednesday's programme.
10 p.m.—Close down.

Wednes., April 18

2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A Reading.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.15 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" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby wireless news.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben."
Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Constance Cooper, soprano.
1.34 p.m.—Studio music.
1.55 p.m.—Constance Cooper, soprano.
2 p.m.—"Big Ben."
Note: During the afternoon from the Parramatta River, on the occasion of the Great Public Schools, Head of the River Regatta: a description of the heats of the first and second Fours and the Senior Eights will be described by Roger Fitzhardinge, Interstate and International Oarsman.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—From the Royal Colonial Institute, Bligh Street: Annual Concert and Presentation of Medals, Diplomas and Certificates.
Rev. Arthur Killworth, M.A., LL.B., will preside.
Arthur D. Bridges, A.F.I.A., will make the presentations.
Chairman's address, Rev. Arthur Killworth, M.A., LL.B.
Piano solo, "A Spring Flower" (Lewis).
Isabel Wall (Primary Grade).
Piano solo, "The Mill" (Jensen).
Jean Dowling (Junior Grade).
Humorous selection, "The First Day Back" (V. Trotman).
Tibbie Smith.
Piano solo, "Le Desir" (Cramen).
Doris Chapman (Intermediate Grade).
Piano solo, "Gipsy Roude" (Haydn).
Mavis Woods (Intermediate Grade).
Soprano solo, "Poor Wandering One" (Sullivan).
Muriel Bossley.

Violin solo:
(a) "Country Dance," from "Nell Gwynne."
(b) "Torch Dance," from "Henry 8th."
Queenie Southan, A.V.C.M
Address by Arthur D. Bridges, A.F.I.A.
Piano solo, "La Consolation" (Dussek).
Jean Simons (Adv. Senr. Grade).
Violin duet, No. 5 Duet (Pleyel).
Queenie Southan and Warwick Mackenzie.
Soprano solo, "Morning and You" (Aylward).
Miss Muriel Bossley.
Monologue, "The Dream King of the Desert" (Milton Hayes).
Tibbie Smith.
Piano solo, "Andante and Prustissino" (from "Sonata Appassionata") (Beethoven).
Winifred J. Ellis, F.V.C.M.
Remarks by State Representative.
4.20 p.m.—From the Studio:
Ivy Dunstone, mezzo.
4.25 p.m.—Ian Iredale, tenor.
4.30 p.m.—A talk by "Delisse."
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Ivy Dunstone, mezzo.
4.50 p.m.—Ian Iredale, tenor.
4.54 p.m.—Studio music.
5 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.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben."
Late sporting news by 2FC Commissioner.
7.5 p.m.—Dalgety's Market reports (wool, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.45 p.m.—Programme announcements.
7.48 p.m.—Professor Mills, on behalf of the Workers' Educational Association, will deliver a talk on "Economics."
8 p.m.—"Big Ben."
From the Capitol Theatre, Sydney (on the occasion of the second broadcast from this Theatre):
The Capitol Symphony Orchestra of 30 members.
Items on the "Wurlitzer" Organ, played by Mr. Fred. Scholl.
Ted Henkel and his stage band of 20 players.
Vocal Quartette in association with the Stage Prologue.
8.45 p.m.—From the Studio:
Mabel Batchelor, soprano, and Eileen Boyd, contralto:
Duets: (a) "Tales of Hoffman" (Offenbach).
(b) "Bye-bye, Babe" (Vera Barnett), accompanied by the composer).
8.52 p.m.—Gladstone Bell, 'cello solos.
9 p.m.—"Big Ben."
Late weather forecast.
9.1 p.m.—Will Bowyer, basso:
(a) "The Admiral's Yarn" (Rubens).
(b) "The Swordsman" (Wallace).
9.8 p.m.—From the Capitol Theatre, Sydney:
The Capitol Symphony Orchestra.
At the Wurlitzer Organ, Mr. Fred Scholl.
9.25 p.m.—From the Studio:
Mabel Batchelor, soprano, and Eileen Boyd, contralto:
Duets, "Venetian Boat Song" (Blumenthal).
"Just You" (Vera Barnett) (Accompanied by the Composer).
9.32 p.m.—Gladstone Bell, 'cello solos.
9.42 p.m.—William Bowyer, basso:
(a) "Wander Thirst" (Ronald).
(b) "Drakes Spirit" (Stewart).
9.48 p.m.—H. W. Varna and Company will produce the play:
"SHERLOCK HOLMES"
(by arrangement with J. C. Williamson, Ltd.).
Characters:
Sherlock Holmes, H. W. Varna.
Dr. Watson, William Hume.
Forman (Holmes' man), Arthur Fisher.
Lady Edward Leighton, Muriel Conner.
Count Stalburg, E. M. Brewer.

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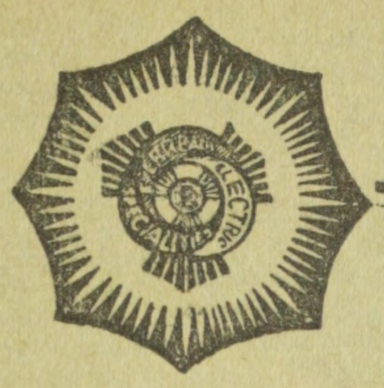

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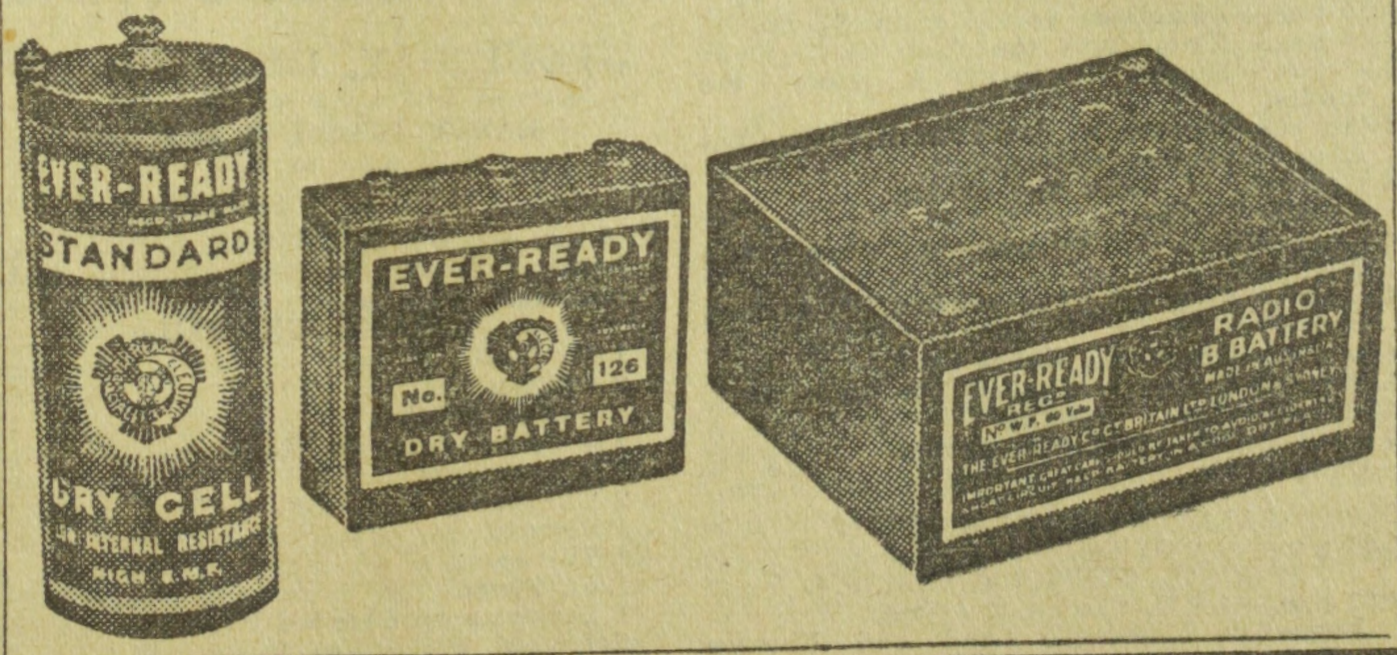

Professor Moriarty, Foster Dean.
Jim Larrabee, Noel Robertson.
Billy, Somerset Varna.
Madge Larrabee, Cleo Glover.
Alice Faulkner, Felice Clark.
"Sherlock Holmes," Part One:
Scene: Sherlock Holmes' Rooms at Baker Street.
10.12 p.m.—Incidental music to Part Two.
10.14 p.m.—"Sherlock Holmes," Part Two: Played by H. W. Varna and Company. Scene: The Gas Chamber at Stepney.
10.36 p.m.—Late weather forecast.
Incidental music to Part Three of "Sherlock Holmes."
10.38 p.m.—"Sherlock Holmes," Part Two: Played by H. W. Varna and Company. Scene: Dr. Watson's House, Kensington.
10.58 p.m.—To-morrow's programme and late news.
11 p.m.—"Big Ben."
National Anthem.
Close down.

2BL, SYDNEY.

WEDNESDAY, 18th APRIL, 1928.

EARLY MORNING SESSION.
8 a.m. to 9 a.m.

MORNING SESSION.
11 a.m.—G.P.O. Clock and chimes.
Talk on "'Golf," by Miss Gwen Varley, Broadcasters Women's Sports Authority.
Social Notes. Replies to correspondents.
Welfare talk by Mrs. Jordan.

AFTERNOON SESSION.
Racing information broadcast immediately after each race by courtesy of the "Sun." During the afternoon descriptions of the Great Public Schools Regatta will be broadcast.
12 noon.—G.P.O. Clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Musical programme from the Studio.
12.8 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 and Produce market report.
12.22 p.m.—Forage market report.
12.24 p.m.—Fish market report.
12.26 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 Hospitals.
2 p.m.—G.P.O. Clock and chimes.
Racing resume.
2.5 p.m.—Musical programme from the Studio.
2.20 p.m.—News from the "Sun."
2.30 p.m.—Musical programme from the Studio.
2.45 p.m.—Talk on "Celtic Mythology."
3 p.m.—G.P.O. Clock and chimes.
Racing resume.
3.5 p.m.—News from the "Sun."
3.10 p.m.—Pianoforte recital from Studio.
3.20 p.m.—News from the "Sun."
3.30 p.m.—Musical programme from the Studio.
3.40 p.m.—Dungowan dance band, broadcast from Dungowan Cabaret.
4 p.m.—G.P.O. Clock and chimes.
Racing resume.
4.5 p.m.—Musical programme from the Studio.
4.15 p.m.—Talk on "The Women of Ancient Rome."
4.30 p.m.—Dungowan Dance band.
4.50 p.m.—Features of evening's programme.
4.52 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.
5.45 p.m.—G.P.O. Clock and chimes.
SPECIAL COUNTRY SESSION.
6.30 p.m.—G.P.O. Clock nad chimes.
Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast by courtesy of Government Meteorologist.
Producers Distributing Society's Fruit and Vegetable market report.
Stock Exchange report.
Grain and Fodder report ("Sun").
Dairy Produce report ("Sun").
N.R.M.A. report.
6.45 p.m.—Country news from the "Sun."
7 p.m.—G.P.O. Clock and chimes.
Gulbransen Dinner Music.
7.30 p.m.—Talk on "Astrology," by Miss Charlton Smith.

NIGHT SESSION.
8 p.m.—G.P.O. Clock and chimes.
Programme arranged by Messrs E. F. Wilk's and Co.
9 p.m.—G.P.O. Clock and chimes.
Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
9.1 p.m.—The Canterbury district band broadcast from Baker's Hall, Campsie.
9.21 p.m.—Dorothy Manning and Harry Graham, in Song and Story.
9.41 p.m.—The Canterbury district band.
10.1 p.m.—Broadcasters all sports expert will talk on general sporting.
10.15 p.m.—Resume of following day's programme.
10.20 p.m.—Romano's restaurant dance orchestra, under the direction of Mr. Merv. Lyons. "Sun" news will be broadcast during intervals.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

2UW, SYDNEY

WEDNESDAY, 18th APRIL, 1928.

EVENING SESSION.
7 p.m.—Studio items.
7.10 p.m.—Where to Go Session.
7.14 p.m.—Dinner music.
7.40 p.m.—Miss Doris Fitzmaurice, elocutionist, Selected.
7.45 p.m.—Studio items.
7.51 p.m.—Miss G. Tyerman, pianoforte solo: Selected.
7.58 p.m.—Studio items.
8.1 p.m.—News and shipping intelligence.
8.15 p.m.—Miss Doris Fitzmaurice, elocutionist, Selected.
8.20 p.m.—Studio item.
8.24 p.m.—Miss G. Tyerman, pianoforte solo: Selected.
8.31 p.m.—Studio item.
8.35 p.m.—Vocal and instrumental items.
8.45 p.m.—Weather forecast.
8.48 p.m.—Dance music by courtesy of Morley, Johnson, Ltd.
9.20 p.m.—Request numbers.
9.35 p.m.—Dance music.
9.58 p.m.—Announcements.
10 p.m.—Close down.

3LO, MELBOURNE

WEDNESDAY, 18th APRIL, 1928.

EARLY MORNING SESSION.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.
11.0 a.m.—3LO's CULINARY COUNSELS or how to create creature comforts with a minimum of cash:

STEWED OX TAIL.

1 Ox Tail.
2 Onions.
Bunch of Herbs.
1½ Pints Water or Stock.
6 Peppercorns.
2 Cloves.
1 Carrot.
1 Turnip.
1 oz. Flour.
1 Dessertspoon Chopped Parsley.
Salt and Pepper to Taste.
1 oz. Fat.

METHOD: (1) Cut tail in joints, remove fat, and dip each piece into the mixed flour, pepper and salt; (2) Peel onions and slice in thin rings; (3) Melt fat in saucepan, and, when smoking hot, fry joints a golden brown; (4) Lift out on to plate; (5) Put onions into saucepan and fry till brown; (6) Add remainder of flour, pepper and salt; (7) When brown, add tail, water or stock, peppercorns, cloves, bunch herbs; (8) Bring to boil; (9) Simmer very gently for 3 hours; (10) Lift tail out into basin and strain gravy over; (11) When cold remove fat; (12) Put into saucepan, add carrot and turnip peeled, and cut in neat pieces; (13) Allow to simmer 1½ hours; (14) Have ready hot dish, lift pieces of tail out, and pour gravy and vegetables over; (15) Sprinkle with finely chopped parsley; (16) Wipe round dish and serve.

THE GLORY OF THE GARDEN: Have you any difficulties with your garden? If so, write to "Old Adam," c/o 3LO, and he will assist you.
11.5 a.m.—CAPTAIN DONALD MACLEAN: "Famous Women of History."
11.20 a.m.—Musical Interlude.
11.25 a.m.—MRS. M. CALLAWAY MAHOOD, has chosen for her subject to-day: "Floor Treatment"—Part I.
11.40 a.m.—Musical Interlude.
11.45 a.m.—MRS. CLARENCE WEBER, the well known Physical Culture Expert, will speak on:
"Cancer."
Its prevalence among women—the need for taking all possible precautions for its prevention.
Helpful suggestions from J. Ellis Barker's wonderful book on Cancer.
Unnatural ways of living—probable cause of Cancer.
Nature's balance disturbed in our food, in our work and in our habits.
12.0 noon.—Melbourne Observatory Time Signal.
12.1 p.m.—Metal Prices from the Australian Mines and Metals' Association from the London Stock Exchange this day; British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables; "Argus" News Service.

MIDDAY SESSION
12.20 p.m.—METROPOLITAN FIRE BRIGADE BAND:
March, "71st Regiment."
Overture, "Light Cavalry."
12.30 p.m.—MINA HESELEVA, Soprano:
"A Request" (Finden).
"Berceuse" (Gretchaninov).
12.37 p.m.—Stock Exchange Information.
12.40 p.m.—METROPOLITAN FIRE BRIGADE BAND:
"Minuet" (Boccerini).
12.47 p.m.—AMBROSE McMAHON, Baritone:
"The Trumpeter" (Dix).
"Mother o' Mine" (Burleigh).
12.54 p.m.—METROPOLITAN FIRE BRIGADE BAND:
Cornet Solo, "I Know of Two Bright Eyes."
1.0 p.m.—Melbourne Observatory Time Signal.
1.1 p.m.—RUPERT HAZEL, and his Grandmother, ELSIE DAY:
"Harmonylarity."
1.15 p.m.—Meteorological Information; Weather Forecast and Rainfall for Victoria, Tasmania, South Australia and New South Wales; River Reports; Ocean Forecast; Stock Exchange Information.
1.22 p.m.—METROPOLITAN FIRE BRIGADE BAND:
Waltz, "Destiny."
1.30 p.m.—ROTARY CLUB LUNCHEON: Address transmitted from Town Hall, Melbourne.
2.0 p.m.—Result of Crangeburn Hurdle Race, 2 miles, HAMILTON RACES, run at 1.45 p.m.
2.1 p.m.—Close Down.

AFTERNOON SESSION.
2.15 p.m.—THE STATION ORCHESTRA: Selection from "Miss Hook of Holland" (Rubens).
2.20 p.m.—Description of HUME JUMPERS FLAT RACE, ALBURY GOLD CUP RACE MEETING, by "Aintree."
2.25 p.m.—Description of MAIDEN PLATE, 5 furlongs, HAMILTON RACES, by "Olympus."

2.30 p.m.—JACK LUMSDAINE, The Radio Rascal (by permission Tivoli Theatres, Ltd.)
"Shady Tree."
"Mary Lou."
2.37 p.m.—THE STATION ORCHESTRA:
"Ballet Music from Faust" (Gounod).
"Hungarian Dances" (Brahms).
2.50 p.m.—Description of MAIDEN PLATE, 5 furlongs, ALBURY GOLD CUP RACE MEETING, by "Aintree."
2.55 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.):
Selected.
3.0 p.m.—Description of LADIES' BRACELET, 7 furlongs, HAMILTON RACES, by "Olympus."
3.5 p.m.—RUPERT HAZELL and ELSIE DAY
"Harmonylarity."
3.15 p.m.—OFFICIAL OPENING OF THE ROSE SHOW, by SIR FRANK CLARKE, who will be introduced by MR. T. A. STEWART, President of the National Rose Society. Transmission from the Town Hall, Melbourne.
3.30 p.m.—FROM THE STUDIO: Result of MEMBERS' BRACELET, 7 furlongs, ALBURY GOLD CUP RACE MEETING, run at 3.25 p.m.
3.31 p.m.—THE STATION ORCHESTRA:
"The Latest Song Hits."
3.40 p.m.—Description of HENSLEIGH HANDICAP, 6 furlongs, HAMILTON RACES, by "Olympus."
3.45 p.m.—ROY GALLOWAY, Baritone (by permission of J. C. Williamson, Ltd.):
"Cloze Props" (Charles).
"Selected."
3.52 p.m.—THE GYPSY PLAYERS:
Selection, "Russet and Gold" (Sanderson).
4.2 p.m.—BESSIE GAUNSON, Violin:
Selected.
4.10 p.m.—Description of ALBURY GOLD CUP, 1 mile 3 furlongs, ALBURY COLD CUP RACE MEETING, by "Aintree."
4.15 p.m.—ROY GALLOWAY, Baritone:
"The Trumpeter" (Dix).
"Kashmiri Song" (Finden).
4.22 p.m.—Announcements.
4.25 p.m.—Description of HANDICAP PONY RACE, 5 furlongs, HAMILTON RACES, by "Olympus."
4.30 p.m.—THE STATION ORCHESTRA:
Selection, "Poppy" (Jones).
4.40 p.m.—Description of FLYING HANDICAP, 6 furlongs, ALBURY GOLD CUP RACE MEETING, by "Aintree."
4.45 p.m.—OLIVE PEACOCK, Baritone:
"Lighterman Tom" (Squire).
"The Drum Major" (Newton).
4.52 p.m.—THE STATION ORCHESTRA:
"Prelude" (Rachmaninoff).
5.0 p.m.—Description of MURNDAL HANDICAP, 1 mile, HAMILTON RACES, by "Olympus."
5.5 p.m.—"Herald" News Service.
5.10 p.m.—Description of NOVICE HANDICAP, 7 furlongs, ALBURY GOLD CUP RACE MEETING, by "Aintree."
5.15 p.m.—Stock Exchange Information.
5.20 p.m.—Close Down.

EVENING SESSION.

6.0 p.m.—Answers to Letters and Birthday Greetings, by "MARY, MARY, QUITE CONTRARY."
6.20 p.m.—Musical Interlude.
6.25 p.m.—"MARY, MARY, QUITE CONTRARY":
"The Grateful Beasts."
6.35 p.m.—Musical Interlude.
6.40 p.m.—"MARY, MARY, QUITE CONTRARY," will tell the children a French Fairy Tale,
"The Blue Bird."

NEWS AND MARKET REPORTS.

7.0 p.m.—Official Report of Newmarket Stock Sales by the Association Stock and Station Agents, Bourke Street, Melbourne.
7.5 p.m.—"Herald" News Service; Weather Synopsis; Shipping Movements.
7.12 p.m.—Stock Exchange Information.
7.17 p.m.—Fish Market Reports by J. R. Borrett, Ltd., Rabbit Prices.
7.19 p.m.—River Reports.
7.21 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 Fruiterers' Association; Retail Prices; Wholesale Fruit Merchants' Association; Citrus Fruit.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the Department of Agriculture, W. C. RUGG, Chief Expert,
"Poultry—Selection of Breeding Stock."
7.45 p.m.—P. W. PEARCE, will speak on:
"The Value of Recreation for Business Men."
Wordsworth said that as a log burns better by being turned, so the brain works better for a change of occupation. Every business-man who takes recreation in whatever form, can testify to its effect on the mind and outlook. It is vital for the business-man to keep going, and to maintain efficiency, he must alternate work and play. All work and no play makes Jack a dull business-man. Mr. Pearce will deal with the question from a long experience with business-men in search of recreation.
8.0 p.m.—CAPTAIN G. H. PETERS, will speak on:
"Books, Wise and Otherwise."
8.15 p.m.—Birthday Greetings and Programme Announcements.
THE GLORY OF THE GARDEN:
SOWING ANNUALS: Nearly all flower seeds are very small, some of them as fine as dust, therefore, they must be down very near the surface (a good rule to work on is to cover the seed from twice to three times its diameter). Do not sow too thickly or you will have to thin out the seedlings or have them drawn.
If you have any queries in connection with your garden that you would like answered, write to "OLD ADAM," c/o 3LO Melbourne, and he will be glad to assist you.
8.17 p.m.—Programme of French Music, arranged by MISS MARY CAMPBELL, of the Albert Street Conservatorium.
IDA WALKER,
Aira, "Le Heros que j'attends" (Lulli).
IDA SCOTT, Piano,
"Ciga" (Corelli).
"Gavotte" (Martini).
GRETTA CALLOW,
Songs,
"Jean et Jeanne" (Old French).
"Gavotte" (Manon), (Massenet).
GERTRUDE HEALY, Violin:
"Chanson Louis 13 et Pavane" (Couperin-Kreisler).
"Berceuse" (Faure).
MARY HOTHAM, songs,
"Le Nil" (Leroux).
"Bonjour, Suxon" (Delbies).
IDA SCOTT, Piano,
"Le Roi s'amuse" (Air de danse dans le style ansien), (Delibes).
GRETA CALLOW,
Song, "Nymphes et Sylvains" (Bemberg)
IDA WALKER, Songs,
"Elegie" (Massenet).
"Ouvre tes yeux bleus" (Massenet).
GERTRUDE HEALY, Violin,
"Prelude, Fugue and Variations" (Cesar Franck), arr. by Lamaitre.
MARY HOTHAM,
Aria, "Printemps qui commence" (Samson and Delilah), (Saint Saens).
IDA SCOTT, Piano,
"Gavotte" (Saint Saens).
GRETTA CALLOW AND IDA WALKER,
Duet, "Dome Epais" (Lakme), (Delibes)
9.30 p.m.—THE ORMOND COLLEGE LARYNX LACERATORS (by permission of the Chancellor), having prowled the provinces, tapped the towns and combed the country, the Lacerators are once more in our midst,
"The Ormond College Song."
9.33 p.m.—JAMES BRAY,
"Jacques, l'homme heureux."
Trained under Signor Guiseppe, he quickly eclipsed his celebrated master. Of him, Caruso declared, after hearing him sing, "he sings, cet homme, he sing."
9.36 p.m.—THE TRINITY MINSTRELS,
They're not as black as they're painted.
9.46 p.m.—Under the auspices of the University Suspension Cord, Signor IVANOVITCH MURPHY-MACTAVISH will lecture on:
"The Aesthetic Sensibility of the Mestelus Antararcticus, and its relation to the Philosophic Treatment of the Future Near-East-West."
Signor Murphy-Mactavish is singularly capable of doing full justice to this great subject. Of Scotch and Irish parentage, he

Wild Oats

Wild oats are a crop more easily raised in the city than in the country. That is why so many young men do not go on the land!

They range from the "tote" to the tailor, from billing and cooing to bigamy. Like measles, they are a complaint of youth—although there are hardworking city farmers who get so many bushels to the acre every year.

I never sowed a single wild oat in my life—never kissed a girl, because I felt that her career would then be ruined unless I married her, never told a fib, never broke a window. My back track is paved with the bitumen of righteousness and hasn't even a bump to vary its monotony.

Do I look back with joy? Not by a thousand acres! Every time I watch a venerable friend sitting restfully amid his wild oats with a cool breeze rustling their leaves, I feel as happy as the small boy who refused to go to the circus on his collection plate sixpence.

All the same, nine-tenths of the so-called wild oats are only field daisies—harmless fun and high spirits. My boy is called "hot stuff" by his pals, but I'll bet my bitumen road against your paddock of oats that he has never done a dirty act in his life.

I would as soon suspect a Burgess Battery of crackling as Bert of sowing an indecent wild oat—and no one could pay him a higher compliment than that!

From birth to burial the Burgess gives pure music. It wears stripes, but it hasn't had a conviction, nor appeared before a judge, even on a "short circuit," without getting his handshake.

You can walk from end to end of the New System radio field at 280 Castlereagh Street, Sydney, and never find a wild oat, unless it has dropped from a sinful opposition battery brought in for cremation.

Can you beat that?

was born in 1910 in Russia, but at an early age expressed a desire to go to Italy, where he studied Hindustani, Irish and the Classics. He later passed through several of the German Universities in a hansom cab. He completed his scholastic career in Britain, where he acquired the degrees of M.B., B.S., M.Sc., B.C.E.

9.49 p.m.—THE ORMOND LARYNX LACERATORS:
"Gaudeamus."
"Ho! Wake the Lyre."

9.55 p.m.—VARSITY MELODISTS:
We must apologise if the trombone is too loud, the player is not on speaking terms with the rest of the band.
First Item:
THE VARSITY MELODISTS:
"The Varsity Drag" (Henderson).
"Miss Annabelle Lee" (Pollock).
"The Whole World's Laughing at Me" (Olsen and Johnson).
"The Darktown's Strutters' Ball" (Brooks).

10.0 p.m.—THE DENTAL FOLLIES:
Redder than the Moulin Rouge, zippier than Zeigfields', breezier than the Bergeres.

10.5 p.m.—JAMES BRAY:
"Mon jour de fortune."

10.8 p.m.—THE ORMOND COLLEGE LARYNX LACERATORS:
"A' Roving."

10.11 p.m.—VARSITY MELODISTS:
Second Item:
"Brainstorm" (Sanders).
"Ruffenreddy"—Piano Solo (Bargy).
"Popular Medley."

10.17 p.m.—DENTAL FOLLIES:
"Fun and Fancy," Mostly Fancy.

10.21 p.m.—A. E. GILES, organising secretary, will say a few words about the event of the year:
"Commencement."

10.24 p.m.—THE ORMOND LARYNX LACERATORS:
"Estudiantina."

10.28 p.m.—OUR GREAT THOUGHT FOR TO-NIGHT:
"To the old, we say, be young! To the young we say, be old! To the the middle-aged, what can we say?

10.29 p.m.—VARSITY ANTHEM.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY:
"The traffic officer is responsible for all accidents which happen at his station. Treat him as you expect him to treat you. His goodwill is more desirable than his ill will."

10.40 p.m.—MINA HESELSVA, soprano:
"Saper Vorrests" (Verdi).
"Spring's awakening" (Sanderson).

10.47 p.m.—THE STATION ORCHESTRA:
"L'Estudiantina" (Waldieufel).

10.54 p.m.—AMBROSE McMAHON, baritone:
"Homeland" (Drummond).
"The Cruiskeen Lawn" (Moffatt).

11 p.m.—OUR GREAT THOUGHT:
"Difficulties, by bracing the mind to overcome them, assist cheerfulness, as exercise assists digestion."—Bovee.

11.1 p.m.—THE VAGABONDS:
Dance music.

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

WEDNESDAY, 18th APRIL, 1928.

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

MIDDAY CONCERT SESSION.
12.1 p.m. to 1.57 p.m.

Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.
ORCHESTRAL DANCE CONCERT.

Sport: During the afternoon results of the Kyneton Races, together with other information, will be broadcast immediately each Race is run.

2 p.m.—Ayarz Dansonians:
A half-hour Dance Session by Melbourne's favorite Dance Band. The latest popular hits, each one announced prior to its presentation.

2.30 p.m.—Melbourne Concert Orchestra:
"Valse Poudree" (Frances Popy).
Selection, "Poppy" (Jones and Samuels).

2.45 p.m.—Miss Julia Russell, soprano:
"Air de Salome" (Massenet).
"The Dove" (Landon Ronald).

2.53 p.m.—Melbourne Concert Orchestra:
"Nautical Scenes" (Percy Fletcher).
"French Serenade" (Grieg).

3.8 p.m.—Mr. Herbert Pettifer, violin:
"Canzona del Violine" (Schebek).

3.12 p.m.—Miss Julia Russell, soprano:
"Hindoo Song" (Bemberg).
"Star of Fate" (Tschaikowsky).

3.20 p.m.—Ayarz Dansonians:
Fox Trot, "Are you happy?" (Ager).
Fox Trot, "What a pal, what a gal" (Spier).
Fox Trot, "Don't forget when the Summer Rolls By" (Pollack).

3.30 p.m.—Announcement.

3.35 p.m.—Talk by Dr. George Payne Philpots: President of the Food Education Society and Editor of the National Magazine of Health.

3.45 p.m.—Melbourne Concert Orchestra:
"Fantasie Espagnole" (Lucius Hosmer).
"The Eagle" (MacDowell).
"Moonshine" (MacDowell).

4 p.m.—G.P.O. Clock says "Four."

4.1 p.m.—Semi-final weather forecast.

4.3 p.m.—Mr. Charles Duncan, baritone:
"I Pitch My Lonely Caravan at Night" (Coates).
"Good Company" (Adams).

4.11 p.m.—Ayarz Dansonians.

4.27 p.m.—Mr. Robert Adams, cornet:
"Idyl of Tuscany," Paraphrase (Hoch).

4.31 p.m.—Mr. Charles Duncan, baritone:
"On the Road to Mandalay" (Hedcock).
"A Castilian Lament" (Teresa De Riego).

4.39 p.m.—Melbourne Concert Orchestra:
"Spanish Dances, Nos. 3, 4 and 5" (Moszkowski).
"Indian Summer" (Lake).

4.55 p.m.—Announcements.
To-night's entertainment.

5 p.m.—G.P.O. Clock says "Five."
"God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—3AR's Cousin Peter.

EVENING SESSION.
"CONCERT HALL AND BALL ROOM."

7.15 p.m.—Our Boy Scouts: Commissioner W. D. Kennedy, Deputy Camp Chief of Victoria, will give his interesting weekly notes and news on the Scout Movement.

7.35 p.m.—Sport Session: "Harlequin" presents his budget of up-to-date news and comments on Sport of the Day.

7.50 p.m.—Macnamara's Stock Reports.

8 p.m.—G.P.O. Clock says "Eight."
A Concert to be given by Mr. Arthur Prince's Concert Company, assisted by the Melbourne Concert Orchestra and the Ayarz Dansonians.

8.1 p.m.—Melbourne Concert Orchestra:
Overture, "Merry Wives of Windsor" (Nicolai).

8.9 p.m.—Mr. Arthur Prince's Concert Company:
Part Song, "O Happy Fair" (Shield).
Old English Air, "Passing By" (Purcell).

8.16 p.m.—Ayarz Dansonians:
Fox Trot, "I'll be Lonely."
Fox Trot, "Dew, Dew, Dewy Day."
Waltz, "So Blue" (Henderson).

8.25 p.m.—Mr. Newstead Rush, bass-baritone:
Recit. and Air, "Hear me, ye winds and waves" (Handel).

8.29 p.m.—Miss Freda Treweek, mezzo-soprano:
"Dear Ring upon My Finger" (Schumann).

8.33 p.m.—Melbourne Concert Orchestra:
Selection from "Lilac Time" (arr. Clutsam).
"Reverie" (Vieuxtemps).

8.50 p.m.—Announcements.

9.2 p.m.—Mr. Arthur Prince's Concert Company:
Part Song, "The Two Clocks" (Rogers).
Unison Song, "A Sad Story" (Rathbone).

9.8 p.m.—Ayarz Dansonians:
Fox Trot, "Half a Moon" (Hanley).
Fox Trot, "Tell me, Little Daisy" (Miles).
Fox Trot, "Magic Voices of the Night" (Gusman).

9.17 p.m.—Misses Boyle and Fisher:
Duet, "Afton Water" (Anonymous).

9.20 p.m.—Miss Ethel Boyle, soprano:
"If my Songs were only Winged" (Hahn).

9.23 p.m.—Melbourne Concert Orchestra:
"As Once in Happier Days" (Popper).
"Prelude" (Rachmaninoff).
"Gregheria" (Tschaikowsky).

9.37 p.m.—Mr. Arthur Prince's Concert Company:
Quartette, "As Torrents in Summer" (Elgar).

9.45 p.m.—Mr. Ernie Pettifer, saxaphone:
"Velma" (Rosebrook).

9.50 p.m.—Announcements.

10 p.m.—G.P.O. Clock says "Ten."

10.1 p.m.—Semi-final weather forecast, specially for our country listeners.

10.3 p.m.—Miss Irene Jones, contralto:
"Lie there, my lute" (MacCunn).

10.7 p.m.—Miss Freda Treweek, mezzo-soprano, and Mr. Newstead Rush, bass-baritone:
Duet, "Nocturne" (Chaminade).

10.12 p.m.—Ayarz Dansonians:
Fox Trot, "Yale Blues" (Ellis).
Fox Trot, "Love Baby" (Greer).
Fox Trot, "Don't forget when the Summer Rolls By" (Pollack).

10.21 p.m.—Mr. Arthur Prince's Concert Company:
Part Song, "Curfew" (Cowen).
Part Song, "Golden Slumbers" (Anon).

10.27 p.m.—Melbourne Concert Orchestra:
"Invitation of the Waltz" (Weber).

10.38 p.m.—Mr. Arthur Prince's Concert Company:
Part Song, "Silent o' Moyle" (Moore).
Part Song, "O Peaceful Night" (German).

10.45 p.m.—"Harlequin": Sport results.

10.52 p.m.—"Age" news service, exclusive to 3AR.

10.58 p.m.—Final weather forecast.

10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "The Squatter's Baccy Famine," by Brunton Stephens.

11 p.m.—G.P.O. Clock says "Eleven."
"God Save the King."

4QG, BRISBANE

WEDNESDAY, 18th APRIL, 1928.

MORNING SESSION.
10.30 a.m. to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports; weather information; "The Daily Mail" and "The Daily Standand" news.

1.53 p.m.—Standard time signal.

2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—An "At Home" arranged by the Standing Committee of the Women's College within the University of Queensland.
Musical programme arranged by Mrs. C. N. Nettheim.
Song: "Dawn" (Curran).
Miss Jean Mactaggart.
Song:
"Harlequin" (Sanderson).
Mr. Basil Sterling.
Piano Solo:
"Concert Study in G." (York Bowen).
Miss Vera Bodman.
Song:
"Danny Boy" (Weatherly).
Mrs. A. Huybers.
Violin Solo:
"Serenade" (De Boisdeffre).
Mrs. C. N. Nettheim.
Song:
"Pass Every Mon" (Sanderson).
Mr. E. Harper.
Song:
"Indian Dawn" (Zamecik).
Miss Jean Mactaggart (violin obligato by Mrs. C. N. Nettheim).

Song:
"Dolorosa" (Montague).
Mr. Basil Sterling.
Piano Solo:
"La Dance d'Olaf" (Pick-mangiagalli).
Miss Vera Bodman.
Song:
"If Any Little Song of Mine" (Theresa del Riego).
Mrs. A. Huybers.
Violin Solo:
"Liebeslied" (Kreisler).
Mrs. C. N. Nettheim.
Song:
"Song of Triumph" (Anderson).
Mr. E. Harper.
4.15 pm..—"The Telegraph" news.
Weather news.

EARLY EVENING SESSION.

6 p.m.—Mail train running times; "Daily Standard" news; announcements.
6.10 p.m.—Lecturette: An Astronomy Talk, "The Sun"—by Mr. A. K. Chapman.
6.30 p.m.—Children's Hour. Stories by "Little Miss Brisbane."
7 p.m.—Special news service; market reports; stock reports.
7.30 p.m.—Weather news; announcements.
7.43 p.m.—Standard time signal.
7.45 p.m.—Lecturette arranged by the Agricultural High School and College.

NIGHT SESSION.

8 p.m.—A programme of dance music by Alf. Featherstone and his Studio Syncopators, including:—
Fox trots:
(a) "In a Caravan" (Williams).
(b) "Moonlight on the Ganges" (Myers).
Fox trots:
(a) "Someone Else Took Your Place" (Lewis).
(b) "Watching the World Go by" (Brennan).
Jazz Waltzes:
(a) "School Day Sweethearts" (Edwards).
(b) "Forgotten" (Ohagan).
Fox trots:
(a) "Tie Me To Your Apron Strings Again" (Shay).
(b) "Just Around the Corner" (Von Tilzer).
Fox trots:
(a) "You're Got to Black Shuffle" (Sparks).
(b) "Just a Little Love Song" (Cooper).
Rhythmic Paraphrase:
"June" (arr. by Lange), introducing "Andante Cantabils" (Tschaikowsky).
Fox trot:
"Lonesome and Sorry" (Davis).
Fox trots:
(a) "Sweet Child" (Lewis).
(b) "I'd Climb the Highest Mountain" (Brown).
Between dances the following will be broadcast:—
Tenor Solos:
(a) "I Know a Lovely Garden" (D'Hardelot).
(b) "Only the River Running by" (Hopkins).
Mr. S. P. Bacon.
Soprano Solos:
(a) "Who Knows" (Ball).
(b) "O Lovely Night" (Ronald).
Miss R. G. Husband.
Humour by "Graham and Wattie."
Baritone Solos. Selected.
Mr. J. D. McLeod.
10 p.m.—The "Daily Mail" news; weather news.

5CL, ADELAIDE

WEDNESDAY, 18th APRIL, 1928.

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" News Service and British Wireless News.
12.30 p.m.—Musical numbers on the Studio "Recreator."
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Musical numbers on the Studio Recreator."
1.57 p.m.—Meteorological information
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the Studio "Recreator."
3.25 p.m.—Menu Talk by "Homelover."
3.45 p.m.—Fashion Talk by J. Craven and Co.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers on the Studio "Recreator."
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m—Entertainment for the Children by the 5CL Radio Family.
6.30 p.m.—Dinner Music o nthe Studio "Recreator."
6.50 p.m.—General Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S. A. Farmers' Co-operative Union, Taylor Bros., Retail 'Grocers Association, Interstate Fruit Produce Market Co., Ltd.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence.
7.8 p.m.—British Wireless news.
7.30 p.m.—Boy Scouts' Corner.
7.50 p.m.—Results of Interstate Racing. Station announcements.
8 p.m.—G.P.O. Chimes.
8.1 p.m.—Solomon Sisters, Instrumental Trio: "Serenade" (Schubert).
8.10 p.m.—Gerald Healy, Tenor:
"It is only a Tiny Garden" (Haydn-Wood).
"Lelita" (Buzzi Peccia).
8.18 p.m.—Solomon Sisters, Overture to "Poet and Peasant" (Suppe).
8.28 p.m.—Vera Clarkson, soprano:
"One Fine Day" (Puccini).
"Tell Me Gypsy" (Craske-Day).
8.36 p.m.—Solomon Sisters, Instrumental trio: "March Militaire" (Schubert).
8.46 p.m.—Gerald Healy, tenor:
"O Night of Stars and Splendour" (Thompson).
8.50 p.m.—Harry Hutchins, violinist:
"Last Movement of 9th Concerto" (De Beriot).
9.1 p.m.—Meteorological information. Weather forecast and Dalgety Wheat report.
9.2 p.m.—British Wireless news.
9.9 p.m.—Relay from Glenelg: The Maison Dance Band.
9.35 p.m.—Vera Clarkson, soprano:
"The Dawn" (D'Hardelot).
9.39 p.m.—Solomon Sisters, Instrumental trio: "A Prayer" (Edwin Green).
9.45 p.m.—Don Wildsmith, baritone:
"Fairings" (Easthope-Martin).
"The Ballad Monger" (Easthope-Martin).
9.52 p.m.—Harry Hutchins, violinist:
"1st Movement of Wieniawski Concerto."
10.2 p.m.—"Advertiser" news service.
10.12 p.m.—Don Wildsmith, baritone:
"Gracious Devon" (German).
10.16 p.m.—Solomon Sisters, Instrumental trio. "Hungarian Dance" (Brahms).
10.24 p.m.—Don Wildsmith, baritone:
"The Luteplayer" (Allitsen).
10.28 p.m.—Harry Hutchins, violinist:
"Cavatina" (Raff).
10.34 p.m.—Relay from Glenelg, The Maison Dance Band.
10.55 p.m.—To-morrow's programme and meteorological information.
11 p.m.—G.P.O. Chimes and National Anthem.

6WF, PERTH.

WEDNESDAY, 18th APRIL, 1928.

MIDDAY SESSION.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, News, and Cables.
1 p.m.—Time signal.
1.2 p.m.—Studio Quintette, conducted by Mr. Val Smith.

AFTERNOON SESSION.

3.30 p.m.—Tune in.
3.35 p.m.—Talk: "Fashions" by Junette.
3.55 p.m.—Orchestral music played by Hoyts Orchestra, conducted by Mr. Harold Partington, relayed from Hoyts Regent Theatre, William street.

Why *Burgess* Batteries last longer

Every single part of a *Burgess* is fashioned with skilful care. But added to this you have Chrome—the famous preservative—used right throughout the process of manufacture.

No wonder *Burgess* Batteries last so long!

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New System Telephones Pty., Ltd., 280 Castlereagh-street, Sydney.
181–3 King Street, Melbourne.
Charles Street, Adelaide.
Canada Cycle and Motor Agency, Ltd., Creek & Adelaide Sts., Brisbane.

Vocal and instrumental numbers from the studio.
4.30 p.m.—Close down.

EVENING SESSION.

6.45 p.m.—Tune in.
The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories for the Kiddies by Uncles Henry, Bertie and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk.
8 p.m.—Time signal.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
Station announcements such as alterations to programmes, etc.
8.3 p.m.—Variety Night.
Musical programme from the Studio, including vocal and instrumental artists.
Orchestral music played by Harold Partington and his seventeen piece orchestra, relayed from Hoyts Regent Theatre, William Street.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Co.
Ships within range announcement.
Weather report and forecast.
10.30 p.m.—Close down.

104.5 METRE TRANSMISSION.

Simultaneous broadcast on 104.5 metres of Programme given on 1250 metres, commencing at 6.45 p.m

7ZL, HOBART

WEDNESDAY, 18th APRIL, 1928.

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes the hour.
11.1 a.m.—Special Midlands Weather forecast.
11.5 a.m.—British Official Wireless news.
11.10 a.m.—Mercury morning news service.
11.30 a.m.—Shipping information.
Ships within wireless range.
Mail notices. Commercial news. Foriegn Exchange Markets. Housewives guide.
Produce Sales Railway Sales.
11.45 a.m.—Sporting anticipations.
11.50 a.m.—Musical selections.
11.55 a.m.—Tasmanian Weather stations 9 a.m. reports.
12 noon.—G.P.O. Clock chimes the hour.
Close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest.
3.15 p.m.—Musical selections and readings from the Illustrated Tasmanian Mail.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Uncle Hectors half hour.
7 p.m.—Birthday Greetings and story from Illustrated Tasmanian Mail.

NIGHT SESSION.

7.30 p.m.—Weekly Scouting Corner.
7.35 p.m.—Mercury special Tasmanian news service.
Our special Sydney Fruit Market report.
Railway auction produce sales.
Weather forecasts.
Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock chimes the hour.
8.1 p.m.—Concert fruom the Studio:
Miss Ruby Wallace, soprano.
Msis Doris Mannering, soprano.
Miss Enid Knight, soprano.
Miss Jean Hibbard, soprano.
Miss Gwen Ikin, soprano.
Miss Ruby Piesse, accompanist.
Miss Joan Scott-Power, pianoforte solos.
Mr. George Muir, tenor.
Mr. Hugh Taylor, elocutionist.
Mr. Fred Heraud, baritone.
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.
Weather reports from Australian Capital cities.
Station announcements.
Thursday's programme.

Thurs., April 19

2FC, SYDNEY.

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

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—Last minute Sporting information by the 2FC Commissioner.
10.45 a.m.—A talk by "Delisse."
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.
11.15 a.m.—A Reading.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Studio music.
1.35 p.m.—Doris Hestelow, mezzo.
1.40 p.m.—Studio music.
1.45 p.m.—Doris Hestlow, mezzo.
1.50 p.m.—Late Racing information by the 2FC Racing Commissioner.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—Act from the Tivoli Theatre, Sydney.
3.15 p.m.—From the Studio:
Muriel Watt, contralto.
3.20 p.m.—A talk by "Delisse."
3.35 p.m.—Joyce Gillespie, soprano.
3.40 p.m.—Studio music.
3.45 p.m.—Act from the Tivoli Theatre, Sydney.
4 p.m.—"Big Ben."
From the Studio:
A Recital of H.M.V. Records.
4.30 p.m.—Act from the Tivoli Theatre, Sydney.
4.45 p.m.—From the Studio:
Stock Exchange, third call.
4.47 p.m.—Muriel Watt, contralto.
4.50 p.m.—Joyce Gillespie, soprano.
4.54 p.m.—Studio music.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben."
Late Sporting News by 2FC Racing Commissioner.
7.5 p.m.—Dalgety's market reports (wool, wheat, stock).
7.18 p.m.—Fruit and vegetable markets.
P.D.S. Poultry Markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.35 p.m.—Programme announcements.
7.38 p.m.—Studio items.
8 p.m.—"Big Ben."
The 2FC Orchestra, conducted by Horace Keats.
8.15 p.m.—Peter Gawthorne, baritone.
8.25 p.m.—Henry Penn, pianoforte solos:
(a) "Romance" (Grunfeld).
(b) "Lilies of the Valley" (Poldini).
(c) "Country Gardens" (Grainger).
8.35 p.m.—Madame Vera Tasma, soprano (With orchestral accompaniment.)
8.43 p.m.—The 2FC Studio Orchestra. Conductor, Horace Keats.
8.52 p.m.—Ernest McKinlay, tenor:
(a) "A Fat Lil' Feller" (Gordon).
(b) "Eleanore" (Mallinson).
9 p.m.—"Big Ben." Late weather forecast.
9.1 p.m.—James Pheloung, cornet solo.
9.5 p.m.—Peter Gawthorne, baritone.
9.15 p.m.—Concerto for Piano and Orchestra: "Capriccio Brilliant," Op. 22 (Mendelssohn). At the piano: Henri Penn and 2FC Orchestra, conducted by Horace Keats.
9.28 p.m.—Madame Vera Tasma, soprano.
9.36 p.m.—Charles Lawrence and Len Maurice:
Duets.
9.46 p.m.—The 2FC Studio Orchestra. Conductor, Horace Keats.
10 p.m.—"Big Ben."
Ernest McKinlay, tenor.
10.8 p.m.—James Pheloung, cornet solo.
10.15 p.m.—Charles Lawrence and Len Maurice:
Duets.
10.25 p.m.—The Ambassadors Dance Orchestra. Conductor, Al. Hammet.
10.35 p.m.—From the Studio:
Late weather forecast.
10.37 p.m.—The Ambassadors Dance Orchestra. Conductor, Al. Hammet.
10.57 p.m.—From the Studio:
To-morrow's programme and late news.
11 p.m.—"Big Ben."
The Ambassadors Dance Orchestra.
11.45 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

THURSDAY, 19th APRIL, 1928

EARLY MORNING SESSION.
8 a.m. to 9 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and chimes.
Musical programme from the Studio.
11 a.m.—G.P.O. Clock and chimes.
Social notes. Replies to correspondents by Mrs. Jordan.
Talk on "Architecture," by Mr. Brogan.
12 noon.—G.P.O. Clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Musical programme from the Studio.
12.8 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 and Produce market report.
12.22 p.m.—Forage market report.
12.24 p.m.—Fish market report.
12.26 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.
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."
3 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.—Dungowan Dance Band, broadcast from 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.—Talk on "The Women of Ancient Rome."
4.30 p.m.—Dungowan Dance Band.
4.50 p.m.—News from the "Sun."
4.57 p.m.—Features of evenings programme.
4.59 p.m.—Racing resume.
5 p.m.—G.P.O. Clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
Children's Session.

SPECIAL COUNTRY SESSION.

6.30 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co.'s report.
Weather report and forecast by courtesy of Government Meteorologist.
Producers' Distributing Society's Fruit and Vegetable market report.
Stock Exchange report.
Grain and Fodder report ("Sun").
Dairy Produce report ("Sun").
Weekly Traffic Bulletin.
6.45 p.m.—Country news from the "Sun."
7 p.m.—G.P.O. Clock and chimees.
Dinner Music.
7.30 p.m.—News from the "Sun."

NIGHT SESSION.

8 p.m.—G.P.O. Clock and chimes.
Broadcasters Topical chorus.
8.3 p.m.—An Hour of Comic Opera.
Mr. W. E. Leis, baritone.
8.10 p.m.—The Wurlitzer organ broadcast from The Arcadia Theatre, Chatswood. Organist, Mr. N. Robins.
8.15 p.m.—Miss Dorrie Ward, soprano.
8.22 p.m.—Broadcasters instrumental trio.
8.29 p.m.—Miss Eileen Shettle, contralto.
8.36 p.m.—Mr. W. E. Lewis.
8.43 p.m.—Broadcasters Instrumental Trio.
8.50 p.m.—Miss Dorrie Ward.
8.57 p.m.—Miss Eileen Shettle.
9.4 p.m.—Duet: Miss Dorrie Ward and Mr. W. E. Lewis.
9.10 p.m.—Weather report nad forecast by courtesy of Government Meteorologist.
9.11 p.m.—Mr. Stanley R. Catlett. tenor.
9.18 p.m.—The British Music Society String Quartette.
9.28 p.m.—Miss Millie Hughes, soprano:
9.35 p.m.—The British Music Society String Quartette.
9.45 p.m.—Mr. Stanley R. Catlett.
9.52 p.m.—Miss Millie Hughes.
9.59 p.m.—Resume of following day's programme.
10.4 p.m.—The Wurlitzer organ broadcast from the Arcadia Theatre, Chatswood. Organist: Mr. N. Robins.
10.30 p.m.—The Wentworth Cafe Orchestra, under the direction of Mr. S. Simpson. During intervals between dances, "Sun" news will be broadcast.
11.30 p.m.—G.P.O. Clock and chimes.
National Anthem.

3LO, MELBOURNE

THURSDAY, 19th APRIL, 1928

EARLY MORNING SESSION.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS or how to create creature comforts with a minimum of cash.

GINGERBREAD.

3 cups flour; 1 teaspoon carb. soda; 2 tablespoons brown sugar; 1 tablespoon butter; ½-cup treacle; ½-cup milk; 1 egg; 3 teaspoons ginger.

Method: (1) sift flour, carbonate soda, and ginger. (2) Rub in butter and add sugar. (3) Beat egg, and mix with treacle and milk. (4) Pour into flour, and stir well. (5) Turn into a baking tin lined with greased paper, bake in moderate oven for ½-hour.

THE SHRINE OF REMEMBRANCE:—In this Memorial Appeal my heart goes out to every mother whose dear son is counted amongst those who gave their lives for their Country, to every widow who mourns the loss of a dear husband, and to every woman who has suffered, through the War, the loss of a dear relative. I hope that every woman will help in the building of the Memorial, this expression of naternal love for the men who served and made the supreme sacrifice, I hope that every man, woman, and child, in the State will contribute, ths making the Memorial really national, and giving to our bereaved the comfort of a nation's sympathy.

Mrs. S. POWELL,
President Sailors and Soldiers' Mothers' Association.

11.5 a.m.—D. H. McCONNELL will speak on "Electrical Refrigeration in the Home."
11.20 a.m.—Musical interlude.
11.25 a.m.—MATRON MORELAND: "Mothercraft."
11.40 a.m.—Musical interlude.
11.45 a.m.—MRS. HENRIETTA C. WALKER: "The Art of being a Settler." "Emergencies—Fires and Floods."

MID-DAY NEWS SERVICE.

12 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. Reuter's and The Australian Press Association cables. "Argus" news service.

COMMUNITY SINGING.

12.15 p.m.—COMMUNITY SINGING, transmitted from the Assembly Hall, Collins-street, Melbourne, Conductor, G. J. MACKAY, assisted by THE GYPSY PLAYERS.

FROM THE STUDIO.

1.45 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecasts. River reports. Stock Exchange information.
1.55 p.m.—Close down.

NOTE.—During the afternoon results of the ALBURY and HAMILTON Races will be given as they come to hand.

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA: Selection, "Merry England" (German).
2.25 p.m.—AMBROSE McMAHON, baritone: "The Arrow and the Song" (Balfe). "The Floral Dance" (Moss).
2.32 p.m.—THE STATION ORCHESTRA: Selection, "Sally" (Kern).
2.40 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.): "Millions of Men."
2.47 p.m.—THE STATION ORCHESTRA: Selection, "The Merry Widow" (Lehar).
3 p.m.—Melbourne Observatory Time Signal.
3.1 p.m.—DR. LOFTUS HILLS: "Topics of the Week."
3.15 p.m.—WM. G. JAMES will speak to students of music on "Chamber Music." This Talk will be illustrated by THE GYPSY PLAYERS.
3.45 p.m.—COL. POTTINGER will speak on, "India."
4 p.m.—THE STATION ORCHESTRA: "Song of the Volga Boatmen" (Weinger). "Henry VIII. Dances" (German).
4.10 p.m.—ROY GALLOWAY, baritone (by permission of J. C. Williamson, Ltd.): "Border Ballad" (Cowen). Selected.
4.17 p.m.—THE STATION ORCHESTRA: Selection of Gilbert & Sullivan Works."
4.25 p.m.—RUPERT HAZELL AND ELSIE DAY in "Harmonylarity."

NEWS SESSION.

4.35 p.m.—"Herald" News session. Stock Exchange information. Special Weather report from Adelaide. Weather forecast for Mildura district.
All Racing Results to hand.
4.45 p.m.—EVENSONG, transmitted from ST. PAUL'S CATHEDRAL.
5.30 p.m.—Close down.

EVENING SESSION.

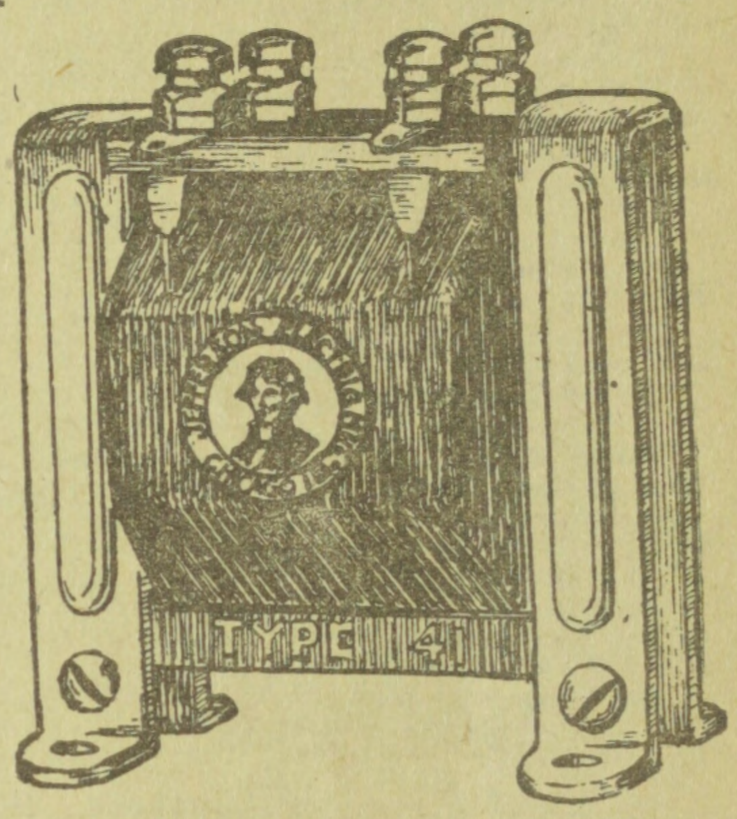
5.50 p.m.—Results of Albury and Hamilton Races.
6 p.m.—Answers to Letters and Birthday Greetings by "MARY GUMLEAF."
6.20 p.m.—Musical interlude.
6.25 p.m.—"MARY GUMLEAF" Poems:
"To my Song."
"Forgiven."
Story for the littlest ones:
"The Little White Kitten."
6.35 p.m.—Musical interlude.
6.40 p.m.—"MARY GUMLEAF," Story for the older children. Stories from "The Enchanted Forest," "Anne Meets Potty."
7 p.m.—Official report of Newmarket Stock Sales, by the Associated Stock and Station Agents, Bourke-street, Melbourne.
7.5 p.m.—"Herald" news service. Weather synopsis. Shipping movements.

Jefferson Transformers

The name of Jefferson has always been associated with transformers.

For years the firm of Jefferson has been making transformers from the smallest to the largest and for every known electrical and wireless purpose.

The Jefferson 41 Transformer needs no introduction It was one of the first on the market and thousands of the early models are still in use.



Jefferson 41 - - 15/-
Ratio 3.75 to 1

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A quality product at a price to suit all.

Why put up with raucous and distorted reception when a Jefferson 41 may be had for

15/-

Obtainable from all Reputable Radio Dealers.

Sole Australasian Agents:

Fox & MacGillycuddy Ltd.
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MA 3062

7.12 p.m.—Stock Exchange information.
7.17 p.m.—Fish Market reports by J. R. Borrett, Ltd.—Rabbit prices.
7.19 p.m.—River reports.
7.21 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 Fruiterers' Association. —Retail prices.
Wholesale Prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus fruits.

NIGHT SESSION.

7.30 p.m.—A Talk on Foreign Affairs by "AN AUSTRALIAN."
7.45 p.m.—MISS GYNETH GRAHAM, now appearing in "The Trial of Mary Dugan," at the Theatre Royal, will speak to you from her dressing-room, by permission J. C. Williamson, Ltd.
8 p.m.—ROD McGREGOR will speak on: "The Opening of the 1928 Football Season."
8.15 p.m.—Birthday Greetings and Programme announcements.
Acceptances for Aspendale Races on Saturday, 21st inst.
8.16 p.m.—THE VAGABONDS:
"Take Your Finger Out of Your Mouth" (Yellan).
"Rang Tang" (Darby).
"Fifty Million Frenchmen" (Rose).
8.25 p.m.—AMBROSE McMAHON, baritone:
"Mattinata" (Leoncavello).
8.28 p.m.—THE VAGABONDS:
"Just a Memory" (Henderson).
"Persian Rug" (Kahn).
"I'd Leave Ten Men" (Bloome).
8.37 p.m.—A Few Minutes' Chat on the SHRINE OF REMEMBRANCE.
8.42 p.m.—THE VAGABONDS.
"Painting Pretty Picture" (Weddell).
"Here I am" (Brown).
"The Mannikin Ball" (Dixon).
8.51 p.m.—MINA HESELEVA, soprano:
"Solvieg's Song" (Grieg).
8.54 p.m.—THE VAGABONDS:
"Mademoiselle Mimi" (Young).
"Me and My Shadow" (Jolson).
"Pleading" (Jones).
9.3 p.m.—RUPERT HAZELL will entertain you with his Fiddle.
9.6 p.m.—THE VAGABONDS:
"Russian Lullaby" (Berlin).
"My Idea of Heaven" (Johnston).
"Red Lips" (Bryan).
9.15 p.m.—OLIVER PEACOCK, baritone:
"The Yeoman of England" (German).
9.18 p.m.—THE VAGABONDS:
"Golden Gate" (Leslie).
"I Can't Get Over a Girl Like You" (Broones).
"When I'm With You" (Conley).
9.27 p.m.—ELSIE DAY, soprano:
Selected.
9.30 p.m.—THE VAGABONDS:
"I Ain't Got Nobody" (Graham).
"Lucky Day" (Henderson).
"Lantern of Love" (Wearich).
9.39 p.m.—AMBROSE McMAHON, baritone:
"Till I Wake" (White).
9.42 p.m.—THE VAGABONDS:
"Consolation" (Baries).
"Dance of the Tinker Toys" (Schabel).
"Moonlight" (Dixon).
9.51 p.m.—MINA HESELEVA, soprano:
"Il Racio" (Arditi).
9.54 p.m.—THE VAGABONDS:
"The Wind Blew Through His Whiskers" (Conrad).
"On a Dew, Dew, Dewy Day" (Johnson).
"Miss Annabelle Lee" (Pollart).
10.3 p.m.—"Argus" news service. Meteorological information. Sporting notes by "Olympus." British Official Wireless news from Rugby.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY:—"Drive slowly at bridges and at culverts. A bad rut or a stone in the road may throw your car against the structure."
10.18 p.m.—THE VAGABONDS:
"Hustling Hinkler" (Gilbert).
"Look in Your Mirror" (Stept).
"Whoo-You-oo. That's who" (Yellan).
10.27 p.m.—OLIVER PEACOCK, baritone:
"The Pirate" (Maley).
10.30 p.m.—THE VAGABONDS:
"The Wedding Waltz" (Gilbert).
"The Sunrise" (Santly).
"Half a Moon" (Hanly).
10.39 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity.".
10.44 p.m.—THE VAGABONDS:
"Blowin' Off Steam" (Davis).
"She Belongs to Me" (Johnson).
"Just a Little Cuter" (Alexander).
10.53 p.m.—MINA HESELEVA, soprano:
Selected.
10.56 p.m.—THE VAGABONDS:
"Yale Blues" (Ellis).
"My Hawaiian Evening Star" (Pollard).
11 p.m.—OUR GREAT THOUGHT:
"This is one of the sad conditions of life, that experience is not transmissible, no man will learn from the suffering of another, he must suffer himself."
11.1 p.m.—THE VAGABONDS.
11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

THURSDAY, 19th APRIL, 1928

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

MIDDAY CONCERT SESSION.
12.1 p.m. to 1.54 p.m.
Transmitted from Panatrope House, 252 Collins Street (by exclusive permission of Wills and Paton, Ltd.), on the Brunswick Panatrope.

MATINEE SESSION.
ORCHESTRAL CONCERT.

2 p.m.—Ayarz Dansonians:
A half-hour session by Melbourne's favorite Dance Band. The latest hits each one announced prior to its presentation.
2.30 p.m.—Melbourne Concert Orchestra:
"Pious Bach" (Urbach).
2.46 p.m.—Miss Jean Lewis, contralto:
"When the Night with Stilly Silence" (Robertson).
"Flower of Brittany" (Hermann Lohr).
2.53 p.m.—Melbourne Concert Orchestra:
"Looking Backward" (Finck).
3.8 p.m.—Mr. W. Whittingham, violin:
"Fugue" (Tartini-Kreisler).
3.12 p.m.—Miss Jean Lewis, contralto:
"I'm a longin' for you" (Jane Hathaway).
"Robin Adair" (Old Scotch).
3.19 p.m.—Ayarz Dansonians.
3.30 p.m.—Interval announcements.
3.40 p.m.—Mr. C. Richard Shugg, flute:
"Birds in the Wood" (Doppler).
3.44 p.m.—Melbourne Concert Orchestra:
Selection, "The Beauty Prize" (Kern).
"The Children's Ball" (Sousa).
4 p.m.—G.P.O. Clock says "Four."
4.1 p.m.—Second weather forecast.
4.3 p.m.—Mr. Herbert Sanderson, baritone:
"The Last Call" (Sanderson).
"To-morrow" (Keel).
4.11 p.m.—Melbourne Concert Orchestra:
Selection from "Carmen" (Moses-Tobani).
4.28 p.m.—Mr. Ken. Code, trombone:
"Parted" (Tosti).
4.32 p.m.—Mr. Herbert Sanderson, baritone:
"The Two Grenadiers" (Schumann).
"A Spray of Roses" (Sanderson).
4.40 p.m.—Ayarz Dansonians.
4.55 p.m.—Special Racing Report. Acceptances and barrier positions for Saturday's Races, by G.F.R.
5 p.m.—G.P.O. Clock says "Five."
"God Save the King."

CHILDREN'S SESSION.

6.30 p.m.—Uncle Mac's entertainment.

EVENING SESSION.
SONG AND DANCE.

7.15 p.m.—Stamp Session: Mr. A. G. Kelson, Vice-President of the 3AR Stamp Club.
7.25 p.m.—"Early Victorian History": Mr. F. A. Currie's interesting talk this week will deal with "By Coach to the Diggins," the day when Cobb and Co. held the road.
7.35 p.m.—Sport Session: "Harlequin" presents his budget of up-to-date news and Comments on Sports of the Day.
7.50 p.m.—Macnamara's Stock Reports. McPhail Anderson's Pig Market.
8 p.m.—G.P.O. Clock says "Eight."
8.1 p.m.—Melbourne Concert Orchestra:
"La Dame Blanche" (Boieldeau).
8.10 p.m.—Miss Jessie Shmith, contralto:
"Thou art risen, my beloved" (Coleridge-Taylor).
"Boat Song" (Harriet Ware).
8.18 p.m.—Melbourne Concert Orchestra:
"Petite Suite Moderne" (Frederick Rosse).
"Extrase Melodieuse" (Littau).
8.33 p.m.—Mr. Ernie Pettifer, clarinet:
"Miranda" (Howgill).
8.37 p.m.—Miss Jessie Shmith, contralto:
"The Clothes of Heaven" (Dunhill).
"Dedication" (Robert Franz).
8.45 p.m.—Mr. C. Richard Chugg, flute:
"Nightingale" (Beckert).
8.50 p.m.—Announcements.
9.2 p.m.—Melbourne Concert Orchestra:
"Suite Dansante Intermezzi" (Fredk. Rosse).
"Adagio from Fourth Symphony" (Van Beethoven).
9.20 p.m.—Mr. John Hobbs, bass-baritone:
"Calf of Gold," from "Faust' '(Gounod).
"Don Juan's Serenade" (Tschaikowsky).
9.28 p.m.—"Harlequin": Sport results.
9.36 p.m.—Melbourne Concert Orchestra:
"A Lover in Damascus" (Amy Woodforde-Finden).
9.50 p.m.—Announcements.
10 p.m.—G.P.O. Clock says "Ten."
10.1 p.m.—Semi-final weather forecast, specially for our country listeners.
10.3 p.m.—Melbourne Concert Orchestra:
"In the Soudan" (Sebek).
"By the Lake of Geneva, Part 2" (Franz Bendel).
10.18 p.m.—Mr. Herbert Pettifer, violin:
"Indian Lament" (Dvorak-Kreisler).
10.22 p.m.—Mr. John Hobbs, bass-baritone:
"I am a Roamer" (Mendelssohn).
"I will not grieve" (Schumann).
10.30 p.m.—Melbourne Concert Orchestra:
Selection, "Puppets" (Novello).
10.45 p.m.—"Harlequin": Sport results.
10.52 p.m.—"Age" News Bulletin, exclusive to 3AR.
10.58 p.m.—Final weather forecast.
10.59 p.m.—Our Australian Good-night Quote is taken from the poem, "A Holy War," by C. J. Dennis.
11 p.m.—G.P.O. Clock says "Eleven."

4QG, BRISBANE.

THURSDAY, 19th APRIL, 1928

MORNING SESSION.
10.30 to 11.30 a.m.

MIDDAY SESSION.

1 p.m.—Market reports; weather information; "The Daily Mail" and "The Daily Standard" news.
1.20 p.m.—A Lunch hour address.
1.58 p.m.—Standard time signal.

AFTERNOON SESSION.

3.30 p.m.—Mail train running times.
3.31 p.m.—A programme of music from the Studio.
4.15 p.m.—"The Telegraph" news.

EARLY EVENING SESSION.

6 p.m.—Mail train running times; "Daily Standard" news; weather information; announcements.
6.10 p.m.—Lecturette: A talk to motorists, "A Short History of Petroleum," by "Gargoyle."
6.30 p.m.—Bedtime stories by "The Sandman."
7 p.m.—Special news service; market reports; stock reports.
7.30 p.m.—Weather news; announcements; "Daily Standard" news.
7.45 p.m.—Lecturette: "Progress of Agriculture in Queensland," No. 2 of a series, Mr. J. F. F. Reid (Editor "Queensland Agricultural Journal.").

NIGHT SESSION.

A concert programme arranged by Miss Gladys Peake and relayed from St. Barnabas Parish Hall, Waterworks Road, Brisbane.
8 p.m.—Violin solo:
"Coronach" (Barrett).
Miss Clare Matthews.

Soprano solo:
"Sea Wrack" (Samford).
Mrs. R. G. Allen.
A Thought for To-Night:
"The Blessing of a Trial."
Will. H. Lister.
Baritone solo:
"Here in the Quiet Hill (Carme).
Mr. Fred Homer.
Monoogue—Selected.
Miss Jean Trundle.
Tenor solo:
"Sigh no More" (Aikin).
Mr. W. Ashlin.
Pianoforte solo:
"Nocturne B-Flat Minor" (Chopin).
Miss Gladys Peake.
Vocal Duet:
"The Love Duet" from "Madame Butterfly."
Mrs. R. G. Allan and Mr. W. Ashlin.
Monologue—Selected.
Miss Jean Trundle.
Baritone solo:
"Red Devon by the Sea" (Clark)
Mr. Fred Homer.
Violin solo:
"Liebesfrued" (Kreisler).
Miss Clare Matthews.
Soprano Solo:
"A Primavera" (Parindelli).
Mrs. R. G. Allan.
Tenor solo:
"Melisande in the Wood" (Goetz)
Mr. W. Ashlin.
9.15 p.m.—A programme of dance music by the St. Barnabas Dance Orchestra.
10 p.m.—"The Daily Mail" news; weather news; close down.

5CL, ADELAIDE

THURSDAY, 19th APRIL, 1928

MIDDAY SESSION.

12 noon.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service and British Wireless news.
12.30 p.m.—Musical numbers on the Studio "Recreator."
12.50 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence.
12.57 p.m.—Meteorological information.
1 p.m.—G.P.O. Chimes.
1.1 p.m.—Musical numbers on the Studio "Recreator."
1.57 p.m.—Meteorological information.
2 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3 p.m.—G.P.O. Chimes.
3.1 p.m.—Musical numbers on the Studio "Recreator."
3.45 p.m.—"Cheer-up" Talk by Rev .C. H. Nield.
4 p.m.—G.P.O. Chimes.
4.1 p.m.—Musical numbers on the Studio "Recreator."
4.57 p.m.—S. C. Ward and Co.'s Stock Exchange intelligence.
5 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6 p.m.—G.P.O. Chimes.
6.1 p.m.—Children's Entertainment with the 5CL Radio Family.
6.30 p.m.—Dinner music on the Studio "Recreator."
6.50 p.m.—General Market report by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S. A. Farmers' Co-operative Union, Taylor Bros., Retail Grocers' Association, Interstate Fruit and Produce Market Co., Ltd.
7 p.m.—G.P.O. Chimes.
7.1 p.m.—S C. Ward and Co's Stock Exchange intelligence.
7.8 p.m.—British Wireless news.
7.16 p.m.—"Windbag's" Sporting Service.
7.30 p.m.—Talk, "Better Homes," arranged by Slaters (Furnishers), Ltd.
7.40 p.m.—A. M. Whittenbury will speak on "Poultry."
8 p.m.—G.P.O. Chimes.
8.1 p.m—Novelty broadcast
8.20 p.m.—The Apollo Male Quartette
8.28 p.m.—Marjorie Walsh, soprano, in operatic excerpts.
8.36 p.m.—Humorous interlude by George Horton.
8.45 p.m.—The Apollo Male Quartette.
8.53 p.m—Marjorie Walsh, soprano, in operatic excerpts.
9.1 p.m.—Meteerological information. Weather forecast. Dalgety and Co.'s Wheat report. British Wireless news.
9.15 p.m.—Relay from Parkside: Organ recital by Miss Goudrey.
9.35 p.m.—Gerald Healy, tenor:
"I Heard You Singing" (Coates).
"On with the Motley," from "Il Pagliacci" (Leoncavallo).
9.43 p.m.—A Little Humor by George Horton.
9.49 p.m.—Relay from Parkside, Organ Recital by Miss Coudrey.
10.1 p.m.—"Advertiser" news service.
10.10 p.m.—Gerald Healy, tenor:
"Pale Moon" (Logan).
10.14 p.m.—Musical monologue by George Horton.
10.19 p.m.—Jean Sinclair, contralto:
"Sandyman" (Brahms).
"Reaping" (Clarke).
10.26 p.m.—"Windbag's" Sporting Service.
10.36 p.m.—Relay from Glenelg, The Maison Dance Band.
10.46 p.m.—Jean Sinclair, contralto:
"The Leaves in the Wind."
10.49 p.m.—Relay from Glenelg, The Maison Dance Band.
10.56 p.m.—Weather forecast and to-morrow's programme.

7ZL, HOBART

THURSDAY, 19th APRIL, 1928

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes the hour.
11.1 a.m.—Special Midlands weather forecasts
11.5 a.m.—British Official Wireless news.
11.30 a.m.—Shipping information.
Ships within Wireless range.
Mail notices. Commercial news. Foreign Exchange markets. Produce sales. Housewives guide. Railway Sales.
11.45 a.m.—Musical selections.
11.55 a.m.—Tasmanian Weather Stations 9 a.m. reports.
Boat Express information.
12 noon.—G.P.O. Clock chimes the hour.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes the hour.
3.1 p.m.—Musical selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information.
Items of interest.
3.15 p.m.—Selections by 7ZL Studio Trio:
March, "National Game" (Bendix).
"Gondola D'Amore" (Stuart).
Selection. "Quaker Girl" (Brown).
Violin Solo. Selected. Mr. E. J. McCann.
"Nuit Enchantee" (Vivier).
"Hungarian Episode" (Bendix).
Pianoforte Solo Selected. Mr. A. Roberts.
"Dreams of Yesterday" (Humphres).
Clarionet Solo. Selected. Mr. Arthur Young.
4.15 p.m.—Chat by Child Welfare Nurse.

EARLY EVENING SESSION.

6.30 p.m.—Uncle Huberts' half hour.
7 p.m.—Uncle Hector talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.35 p.m.—News Bulletin issued by Department of Markets and Migration.
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 the hour.
8.1 p.m.—Selections by Hobart Municipal Band. Conductor. Mr. L. M. Barnett.
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.
Weather reports from Australian Capital cities.
Station asnouncements.
Friday's programme.

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They are built up to a high standard.
Only the Best Mica is used as Di-electric.
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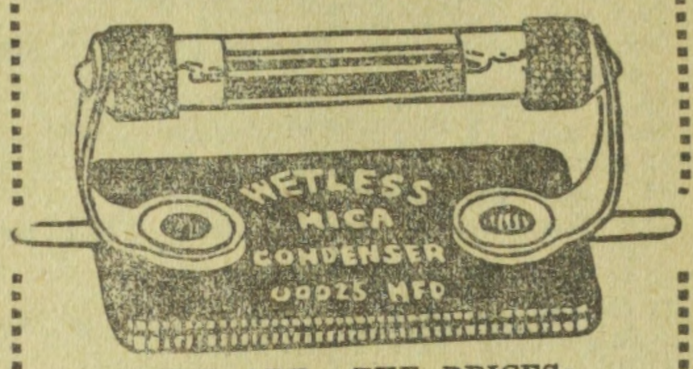

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.0002		.02	5/6

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Friday, April, 20

2FC, SYDNEY

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

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A Reading.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.
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" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.15 p.m.—Rugby wireless news.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
Producers' Distributing Society's Report.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Studio music.
1.35 p.m.—Richard Parry, bass.
1.40 p.m.—Studio music.
1.55 p.m.—Richard Parry, bass.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—A Record Recital.
3.30 p.m.—A talk by "Delisse."
3.45 p.m.—Rita Head, mezzo.
3.50 p.m.—Pianoforte solo by pupil of Miss Bessie Coleman.
4 p.m.—"Big Ben."
Florence Grant, soprano.
4.5 p.m.—A Reading.
4.15 p.m.—Pianoforte solos by pupil of Miss Bessie Coleman.
4.25 p.m.—Rita Head, mezzo.
4.30 p.m.—Studio music: Popular Records.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Florence Grant, soprano.
4.50 p.m.—Studio music.
5 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.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
Sporting information told by the 2FC Commissioner.
7 p.m.—Big Ben.
7.10 p.m.—Dalgety's market reports (wool, wheat, stock).
7.18 p.m.—Fruit and vegetable markets.
7.22 p.m.—Weather and shipping news.
7.26 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.40 p.m.—Programme announcements.
7.45 p.m.—Goodie Reeve will interview Kathryn Reece, the new Broadway Star for the "Prince Charming" Company.
8 p.m.—"Big Ben."
Alexander Sverjensky, pianoforte solos:
(a) "Prelude in A Flat Major" (Chopin).
(b) "Prelude in B Major" (Chopin).
(c) "Valse in C Sharp Minor" (Chopin).
8.12 p.m.—Sydney Calland, baritone.
8.20 p.m.—The "Smart Set" Instrumental Trio (Leader, Molly Gant).
8.32 p.m.—"Tune in and Listen."
8.45 p.m.—Alexander Sverjensky, pianoforte solos:
(a) "Sonet of Petrarca" (Liszt).
(b) "Impromptu" (McDowell).
8.55 p.m.—Sydney Calland, baritone.
9.4 p.m.—The "Smart Set" Instrumental Trio (Leader, Molly Gant).
9.15 p.m.—Rev. F. H. Raward:
Talk, "Let's Go Round the World."
9.30 p.m.—"Tune In and Listen."
9.40 p.m.—The "Smart Set" Instrumental Trio (Leader, Molly Gant).
9.50 p.m.—From Her Majesty's Theatre, Sydney: The Second Act of the Musical Play,
"ROSE MARIE,"
featuring Harriet Bennet and Frederick Bentley.
Musical numbers:
Opening Chorus.
Trio, "Only a Kiss," Frederick Bentley, Yvonne Banvard and James Hughes.
Sextette, "Finaletto," Harriet Bennet, Reginald Dandy, Noel Allan, Lou Vernon, Mabel Lambeth and Stephanie Deste.
Empire March and Gavotte.
Song and Dance, "Minuet of the Minute," Harriet Bennet, Frederick Bentley and Stephanie Deste.
Dance, "Wanda Waltz," Stephanie Deste.
(a) Bridal Procession.
(b) Song, "Door of My Dreams," Harriet Bennet and Chorus.
Bridal Finale.
Finale Ultimo.
Scenes:
1. A Novelty Shop in Quebec.
2. Grand Ballroom, Chateau Fontenac, Quebec.
3. Impression: The Cellar of a Hotel on the River Front, Quebec.
4. On a Hill near Kootenay Pass.
5. The Castle.
10.57 p.m.—From the Studio :
To-morrow's programme and late news.
11 p.m.—"Big Ben."
The Ambassadors Dance Orchestra.
11.45 p.m.—National Anthem.

3LO, MELBOURNE.

FRIDAY, 20th APRIL, 1928.

EARLY MORNING SERVICE.
7.15 a.m. to 8.15 a.m.

MORNING SESSION.

11 a.m.—3LO'S CULINARY COUNSELS, or how to create creature comforts with a minimum of cash.

TOMATO JELLY.

1 pint Tomato pulp or left-over soup.
1-oz. gelatine.
Salt and pepper.
Chopped onion or celery.
1-oz. gelatine.

Soak gelatine in a little cold water. Bring tomato soup to boil, and dissolve the gelatine in it. Strain and pour into little mould and set on ice. Serve with salad dressing and garnish with lettuce and cress, and place a caper on each.

THE GLORY OF THE GARDEN.—Practical Hints on Garden Management. Shape the size of your garden plot in accordance with what time you are prepared to devote to it.

From the outset, make yourself master. Once it gets beyond you, the charm is lost. Run your garden on business lines, adopting from the commencement a methodical plan of action.

11.5 a.m.—FRANCES FRASER:
"Pioneer Women in English Literature."
11.20 a.m.—Musical interlude.
11.25 a.m.—"AU FAIT" will speak on, "Fashions for Women."
11.40 a.m.—Musical interlude.
11.45 a.m.—Under the Auspices of the Public Health Department, Dr. H. N. Seatarby:
"Serums and Vaccines."

MIDDAY NEWS SESSION.

12.0 noon.—Melbourne Observatory Time Signal.
12.1 p.m.—Metal Prices received by the Australian Mines and Metals' Associations from the London Stock Exchange this day; Reuter's and the Australian Press Association Cables; British Official Wireless News from Rugby; "Argus" News Service.

MIDDAY SESSION.

12.20 p.m.—THE GYPSY PLAYERS:
"Ballet Music from Faust"—Part I. (Gounod).
12.30 p.m.—MINA HESELEVA, Soprano:
"Mazurka" (Chopin-Viardot).
"Vainka's Song" (Von Stutzman).
12.37 p.m.—Stock Exchange Information.
12.40 p.m.—AGNES FORTUNE, Piano:
Selected.
12.47 p.m.—THE GYPSY PLAYERS:
String Quartette, "Serenade" (Hadyn).
1.0 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL.
1.1 p.m.—AMBROSE McMAHON, Baritone:
"Invictus" (Hahn).
"Sincerity" (Clarke).
1.8 p.m.—Meteorological Information: Weather Forecast for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecast; River Reports.
1.15 p.m.—THE GYPSY PLAYERS:
"Trio."
1.22 p.m.—MINA HESELEVA, Soprano:
"Polonaise"—Mignon (Thomas).
"Snow Maidem" (Rimsky-Korsakoff).
11.30 p.m.—THE GYPSY PLAYERS:
"Ballet Music from Faust"—Part II. (Gounod).
1.38 p.m.—AMBROSE McMAHON, Baritone:
"Star of Bethlehem" (Stephen Adams).
"Believe Me" (Moore).
1.45 p.m.—Close Down.

NOTE.—The result of the University Rowing Championship Final will be given during the afternoon.

AFTERNOON SESSION.

2.15 p.m.—THE STATION ORCHESTRA:
Selection, "The Bohemian Girl" (Balfe).
"The Little Old Clock on the Mantle" (Wheeler).
2.25 p.m.—JACK LUMSDAINE, Whispering Baritone (by permission of Tivoli Theatres, Ltd.):
"Baby Mine."
"Bungalow and You."
2.32 p.m.—THE STATION ORCHESTRA:
"Um peu d'amour" (Silesu).
"March Militaire" (Schubert).
2.40 p.m.—BERYL HAYDEN, Soubrette (by permision of J. C. Williamson, Ltd.):
"Sad Endings" (Jackson).
2.47 p.m.—THE STATION ORCHESTRA:
Selection, "Miss Hook of Holland."
3.0 p.m.—Melbourne Observatory Time Signal.
3.1 p.m.—FRANCES FRASER, will speak on:
"Travels with Munchhausen and de Rougemont."

While men met with very real adventure in unknown lands, and the account of their travels, though true, seemed stranger than fiction, there were some travellers who drew on their imagination and imposed absurd and ridiculous tales on their readers—like Othello, who told of "Anthropophagi and men whose heads do grow beneath their shoulders." Of this class of traveller there was one famous example in the eighteenth century, and another in the nineteenth century. These were Munchhausem and de Rougemont."

3.15 p.m.—THE STATION ORCHESTRA:
"Melodies from 'My Lady Frayle'" (Finck)
3.25 p.m.—ROY GALLOWAY, Baritone (by permission of J. C. Williamson, Ltd.):
Selected.
3.32 p.m.—THE STATION ORCHESTRA:
"Indian Love Lyrics" (Finden).
"My Blue Heaven" (Donaldson).
3.45 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."
4.0 p.m.—ORGAN RECITAL, by C. E. MONTEATH, F.R.G.O., A.R.C.M., transmitted from St. Peter's Church:
"March Upon a Theme of Handel" (Guilmont).
"Cantilene Pastorale" (Guilmont).
"Choral Prelude" (In Thee Joy), (Bach).
"Andantino in D Flat" (Lemare).
"Triumphal March" (Lemmens).
FROM THE STUDIO:
4.25 p.m.—ROY GALLOWAY, Baritone:
"The Moors of Devon."
Selected.

4.32 p.m.—THE STATION ORCHESTRA: "African Dances" (Ring).
4.37 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.): Impersonations.
4.44 p.m.—Weather Forecast from Adelaide; Weather Forecast for Mildura District.
4.45 p.m.—THE STATION ORCHESTRA: Old Time Melodies.
4.53 p.m.—JACK LUMSDAINE, The Radio Rascal:
"Dew, Dew Dewey Day."
"Calling."
5.0 p.m.—"Herald" News Service; Stock Exchange Information.

EVENING SESSION.

6.0 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6.20 p.m.—"BOBBY BLUEGUM" will have a sing-song with the children—listen for his newest song! Do you remember his motto? "Be the fellow your Mother thinks you are."
6.40 p.m.—"BILLY BUNNY" will continue his
"Stories of the Australian Bush."
7.0 p.m.—Official Report of Newmarket Stock Sales, by the Associated Stock and Station Agents, Bourke Street, Melbourne.
7.5 p.m.—The "Herald" News Service; Weather Synopsis; Shipping Movements.
7.12 p.m.—Stock Exchange Information.
7.17 p.m.—Fish Market Reports, by J. R. Borrett, Ltd.; Rabbit Prices.
7.19 p.m.—River Reports.
7.21 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 Fruiterers' Asosciation; Retail Prices; Wholesale Prices of Fruit by the Wholesale Fruiterers' Association; Citrus Fruits.

NIGHT SESSION.

7.30 p.m.—Under the auspices of the Department of Agriculture, L. C. BARTELS, senior irrigation officer:
"Irrigated Agriculture—Preparing ground for sowing permanent crops."
. . . the voice of that fitful song, sings on and is never still."—Longfellow.
7.45 p.m. — COLLINGWOOD CITIZENS' BAND:
March, "Mixxology."
Overture, "Barber of Seville."
7.52 p.m.—OLIVER PEACOCK, baritone:
"Do you know my garden" (Haydn Wood).
"West of the Great Divide" (Ball).
8 p.m.—H. K. LOVE:
"Technicalities."
Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any information you may require.
8.10 p.m. — COLLINGWOOD CITIZENS' BAND:
Selection of Gilbert and Sullivan Works.
8.17 p.m.—BERYL HAYDEN, Soubrette (by permission J .C. Williamson, Ltd.):
"Castles in the air" (West).
8.24 p.m. — COLLINGWOOD CITIZENS' BAND:
Cornet and euphonium duets.
"Excelsior."
"List to the Convent Bells."
8.34 p.m.—ERNEST SAGE, baritone:
Selected.
"Two Grenadiers" (Schumann).
8.41 p.m.—RUPERT HAZELL AND ELSIE DAY, will entertain you in
"Harmonylarity."
8.55 p.m.—THE GYPSY PLAYERS:
"Hiawatha's Wedding" (Coleridge Taylor).
9.5 p.m.—MINA HESELEVA, soprano:
"Angel guard Thee" (Godard).
With violin obligato by Bertha Jorgenson:
"Huguenotes" (Meyerberr).
9.12 p.m.—BERTHA JORGENSON, violin:
"A Tale" (Coleridge Taylor).
9.20 p.m.—ERNEST SAGE, baritone:
"O, pure and tender star of eve" (Wagner).
"O, thank me not" (Mallinson).
9.27 p.m.—THE GYPSY PLAYERS:
"Death of Minihaha" (Coleridge Taylor).
9.34 p.m.—MINA HESELEVA, soprano:
"Ave Maria" (Gounod).
With 'cello obligato by Helga Brennicke.
"The Star" (Rogers).
9.41 p.m.—THE GYPSY PLAYERS:
"Hiawatha's Wedding," Part 2 (Coleridge Taylor).
9.50 p.m.—"AINTREE" will speak on "To-morrow's races."
10 p.m.—JACK LUMSDAINE, the radio rascal (by permission Tivoli Theatres, Ltd.):
"There must be a silver lining."
"That's my Mammy."
10.7 p.m. — COLLINGWOOD CITIZENS' BAND:
Intermezzo, "Penelope's Garden."
10.14 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby. Road notes, supplied by the ROYAL AUTOMOBILE CLUB OF VICTORIA announcements.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS:
"When installing chains on the rear wheels, instal them on both wheels or none at all. Only one chain may result in a serious accident. Chains on all four wheels help the steering of the car."
10.26 p.m.—BERYL HAYDEN, soubrette:
Selected.
10.32 p.m. — COLLINGWOOD CITIZENS' BAND:
Cornet solo, "Your eyes have told me so."
10.40 p.m.—JACK LUMSDAINE, whispering baritone:
"Hello, Helen."
"Yesterday."
10.47 p.m. — COLLINGWOOD CITIZENS' BAND:
"Russian Lullaby."
Selected.
11 p.m.—OUR GREAT THOUGHT:
"If we do not plant knowledge when young, it will give us no shade when we are old."—Chesterfield.
THE SHRINE OF REMEMBRANCE:
"A man's first care should be to avoid the reproaches of his own heart, his next, to escape the censures of the world.—Addison.
Never let it be said that Victorians have in any way forgotten those who did not return from the Great War.
11.1 p.m.—THE VAGABONDS.
11.40 p.m.—GOD SAVE THE KING.

Saturday, April 21
2FC, SYDNEY.

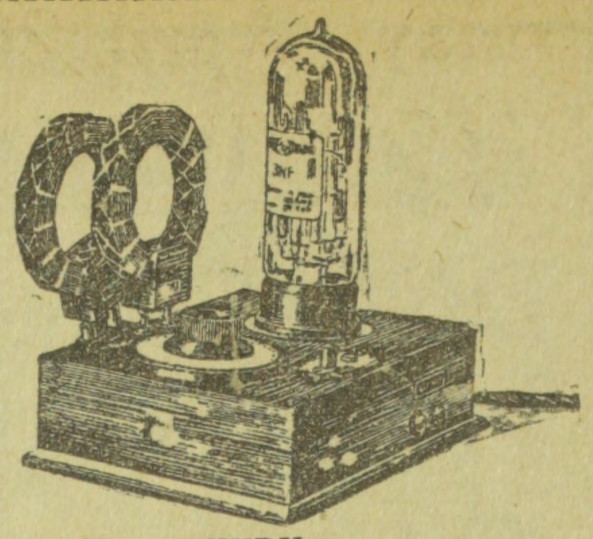
EARLY MORNING SESSION.
7 a.m. to 8 a.m.

MORNING SESSION.

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

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange.
12.3 p.m.—Studio music.
12.10 p.m.—"Sydney Morning Herald" news service.
12.15 p.m.—Rugby wireless news.
12.20 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.



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1.3 p.m.—"Evening News" midday news service.
1.15 p.m.- Studio music.
2 p.m.—"Big Ben."Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—From the Parramatta River on the occasion of the Great Public Schools, Head of the River, Regatta:
The finals of the first and second Fours and the Senior Eights will be described by Roger Fitzhardinge, Interstate and International oarsman.
Note: During the intervals of G.P.S. Regatta descriptions, the following musical items will be given:
Tom. Foggitt, novelty pianist.
Peggy Shaw, soubrette:
"Sunshine."
"Two Little, True Little."
Nancye McGilchrist, violinist.
From the Ambassadors:
The Ambassadors Dance Orchestra, conducted by Al. Hammet.
4.45 p.m.—Complete sporting resume.
5.10 p.m.—Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hello Man" talks to the children.
6.15 p.m.—Story time for the young folk.
6.30 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.15 p.m.—Weather intelligence.
7.18 p.m.—"Evening News" late news service.
7.28 p.m.—Studio music.

NIGHT SESSION.

7.40 p.m.—Programme announcements.
7.45 p.m.—W. F. Kay will continue his series of Theatrical talks:
No. 2: "Poverty Point III."
8 p.m.—"Big Ben."
From the Prince Edward Theatre, Sydney:
1. Introductory music by Prince Edward Concert Orchestra, conducted by Albert Cazabon.
2. Incidental music to "Solitudes," a Fox variety subject.
3. Eddie Horton, world-famed Organist, at the Wurlitzer Orchestral Organ in special novelty numbers.
4. Incidental music to the Cartoon, "Rail Rode."
5. Violin solos by Albert Cazabon, Accompanist, Paul Vinogradoff.
6. Incidental music to the Picture, "Find the King."
7. Albert Cazabon and Concert Orchestra in "Operatic Gems."
Vocalists:
Molly de Gunst, soprano.
Aneurin J. Morris, tenor.
Lionel Lunt, baritone.
9.5 p.m.—From the Studio:
Late weather forecast.
9.6 p.m.—Cyril Monk, violinist.
9.14 p.m.—Norman Francis, tenor.
9.21 p.m.—Alexander Sverjensky, pianoforte solos:
(a) "Prelude in A Flat Major" (Chopin).
(b) "Prelude in B Major" (Chopin).
(c) "Valse in C Sharp Minor" (Chopin).
9.31 p.m.—Frank Chapman, comedian.
9.38 p.m.—Cyril Monk, violinist.
9.46 p.m.—Norman Francis, tenor.
9.54 p.m.—Brunton Gibb, entertainer.
10.2 p.m.—Frank Chapman, comedian.
10.10 p.m.—Alexander Sverjensky, piano solos:
(a) "Sonet of Petrarca" (Liszt).
(b) "Impromptu" (McDowell).
(c) "Dance Rustique" (Boscoff).
10.20 p.m.—Brunton Gibb, entertainer.
10.30 p.m.—Late weather forecast.
10.31 p.m.—Harrison White, banjo solos.
10.38 p.m.—From the Ambassadors:
The Ambassadors Dance Orchestra. Conductor, Al. Hammet.
10.48 p.m.—From the Studio:
Harrison White, banjo solos.
10.57 p.m.—To-morrow's programme and late news.
11 p.m.—"Big Ben."
The Ambassadors Dance Orchestra, in popular numbers until 11.45 p.m.
11.45 p.m.—National Anthem.

3LO, MELBOURNE.

SATURDAY, 21st APRIL, 1928.

NIGHT SESSION.

7.30 p.m.—E. E. PESCOTT,
"Australian Nut and Fruit-bearing Trees."
7.45 p.m.—DR. J. A. LEACH:
"Long Tailed Parrots."
8 p.m.—CLARENCE WEBER, wil speak on "Blood Pressure."
8.15 p.m.—Birthday Greetings and Programme announcements.
8.16 p.m.—THE GYPSY PLAYERS:
"Marcia Lurca" (Mozart).
"Minuetto Originale" (Beethoven).
8.26 p.m.—MINA HESELEVA, soprano:
Aria from "Robert Il Diavolo" (Meyerbeer).
"Away at the River" (Arensky).
8.33 p.m.—HELGA BRENNICKE, 'cello:
"Scherzo" (Beethoven).
8.40 p.m.—THE GYPSY PLAYERS:
"Trio" (Haydn).
8.50 p.m.—ROY GALLOWAY, baritone (by permission of J. C. Williamson, Ltd.):
Selected.
8.57 p.m.—THE GYPSY PLAYERS:
"Quartet" (Beethoven).
9.7 p.m.—JACK LUMSDAINE, Whispering baritone (by permission of Tivoli Theatres, Ltd.):
"Tenderly."
"Honeymoon Cottage."
9.14 p.m.—THE STATION ORCHESTRA:
"Indian Love Lyrics" (Finden).
9.20 p.m.—RUPERT HAZELL AND ELSIE DAY:
"Harmonylarity."
9.35 p.m.—THE STATION ORCHESTRA:
"African Dances" (Ring).
9.40 p.m.—Description of To-night's Stadium Event by ERIC WELCH.

FROM THE STUDIO.

10.10 p.m.—THE STATION ORCHESTRA:
"Sobre Las Olas" (Rosas).
10.15 p.m.—AMBROSE McMAHON, baritone:
"Toreador Song"—Carmen (Bizet).
"Parted" (Tosti).
10.22 p.m.—THE STATION ORCHESTRA:
"The Voice of the Bells" (Thurban).
10.27 p.m.—BERYL HAYDEN, Soubrette (by permission of J. C. Williamson, Ltd.):
Selected.
10.34 p.m.—THE STATION ORCHESTRA:
"Wildflower."
10.40 p.m.—ROY GALLOWAY, baritone:
Selected.
10.47 p.m.—Late Sporting results.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY:—
"When driving do not attempt to carry on o conversation with others in the car. Safe driving demands your full and undivided attention."
THE SHRINE OF REMEMBRANCE:—
THE MAYOR OF GEELONG considers it "A national and personal duty to remember the self-sacrificing bravery of our Australian manhood in fighting for honor, integrity and freedom."
ARE YOU DOING YOUR SHARE TOWARDS THE SHRINE OF REMEMBRANCE?
11 p.m.—OUR GREAT THOUGHT:
"A wise man will make more opportunities than he finds."—Bacon.
11.1 p.m.—THE VAGABONDS.
11.40 p.m.—GOD SAVE THE KING.

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All Readers' Queries Answered Here

W.H.S. (WONGARBON).—You have had an interesting experience which puzzled many beginners in the early days of radio. When you noticed that sparks were flashing across the tuning condensers of your receiver and that when you disconnected the aerial and held this over the aerial terminal a continuous discharge of sparks took place, this was due to the aerial holding a heavy charge of static electricity. It does not necessarily follow that lightning must be in close proximity to observe this effect. A heavy cloud nearby will induce such a charge in a well-constructed and well-insulated aerial. Here is an illustration of a lightning arrestor as a protective device for any radio receiver. Sometimes, rain alone will cause this phenomenon. Danger to a house is not present unless a heavy storm is right overhead and lightning is taking place between the cloud and the earth. A direct hit is a rare occurrence and you may console yourself by the fact that everywhere there are numerous telephone, telegraph and power lines which generally escape unharmed. Do not, however, attempt to fly a kite aerial when any heavy clouds are in the vicinity.

C.J.W. (BROOKTON).—After having read through your description of trouble with the Zenith short wave receiver, I arrived at the conclusion immediately I saw your foot-note. A .0005 variable condenser is entirely out of proportion for tuning the grid circuit of any short wave receiver no matter how fine the reduction is. It was not impossible, but still very difficult to use such a high capacity when transmission on wave lengths of 100 metres was the order of the day. Now that we are using higher frequencies we still require even finer tuning, but with a large reduction of tuning capacity. This high capacity is the cause of the double wavelength effect you notice, and is due to harmonic effects. I advise you to immediately replace or strip down the plates of your condenser in accordance with the inductance used. Three fixed and two moving plates will be ample.

J.P. (DEE WHY).—I do not by any means recommend the inclusion of a defective B battery in series with a new one. The old battery will set up a high internal resistance, which will cause a heavier drain from the new battery with consequent quick discharge.

PERPLEXED (DUNGOG).—It is a simple matter to charge accumulators from a D.C. supply by the inclusion of suitable breakdown resistances to the voltage required. This is best done by the use of carbon filament lamps which have a much higher resistance than the metal filament type. An accumulator may be put in series with the house wiring, provided most or all of the lights in the house are burning at the time. Do not be disturbed by the vagaries of short wave reception. If you receive 5SW Chelmsford so well there is no reason why you should not receive amateur signals from all over the world. Short wave reception is subject to many atmospheric effects and what is termed skip distance. For quite long periods, you will notice a sort of blanket or fog on long distance signals when locals may be quite strong. The reverse conditions will also often appear, and the only thing to do is to keep observations until DX reception improves.

ANODE (LANE COVE).—See the reply to S.C. (Redfern).

L.H.S. (MARRICKVILLE).—A Tungar bulb has a property of supplying its own filament current when in operation. 20 volts should be sufficient.

A.E.W. (ROZELLE).—The capacity of the condensers for the Harkness Two Valve Reflex need not essentially be .0003 mfd. .0005 may be used and should cover the range comfortably. To increase the selectivity, try a shorter aerial or the inclusion of a series condenser.

W.A.S. (SANDGATE).—It is a simple matter to add a stage of audio to any receiver by simply paralleling the filament circuits and connecting up the primary of the transformer to the plate of the valve and the B supply in the usual way. The secondary is connected, of course, to the grid of the amplifying valve and filament circuit as usual. You can follow this quite easily from the preceding valve.

L.F. (GUNDY).—Six turns is insufficient for the primary of your Browning Drake receiver, and in order to obtain selectivity it is advisable to use more turns than is usually necessary. Try increasing this. From the sketches you enclose, it would be better, instead of using the aerial connected as you now have it, to take a centre tapping from the aerial coil and connect the aerial to this. Thank you for your compliments.

A.J.H. (ROZELLE).—You are evidently suffering from a transformer which is delivering distorted reproduction. You do not state what type or ratio of transformer you are using, but, as I understand, you are using a receiver consisting of two stages of radio, detector and two audios, you will be well advised to use transformers of a low ratio, such as 3½ to 1. Make sure they are of good quality. I recommend Ferranti, Jefferson or Rauland Lyric.

D.H.G. (BATHURST).—You have raised a query which is difficult to answer. The reason the announcer at 4QG places the accent on the latter part of the word Brisbane is, no doubt, to ensure that there will be no difficulty with long distance listeners as to identification of the station. Normally, in speech, the men in the street will use the word unaccented. In any case, either pronunciation is correct.

H.N. (NORTH RYDE).—When you reversed the primary of your first intervalve transformer it would have been better to try biasing this at the same time. This would overcome the humming effect.

C.P.D. (MOSS VALE): It seems that you are using the wrong valves with your Marco Four. A better combination of Philips valves would be A435, A415, A409, A409. It is important to use a moderately high impedance valve in the R.F. stage.

A.E.S. (HOMEBUSH): Your short wave adaptor will work quite well with the Solodyne you have constructed using three stages of double impedance amplification. Do not forget to remove the R F. valves. Yours is a sensible suggestion as many cheap makes of transformers are liable to break down due to climatic conditions. Damp weather will cause expansion and contraction of the former carrying the windings, thereby breaking the wire. There is no reason why wou should not try the two French transformers you have on hand for the Selectrex Four. If these are both 3½ to 1, there will be very little loss in amplication. The Pentatron Reinartz will not cause much interference by re-radiation. An aerial of 60 feet overall will be suitable I do not recommen dregeneration on R. F. stages.

P.N. (GOULBURN).—There are many radio companies and dealers in Sydney supplying short wave adaptors. These are obtainable almost everywhere. Try Messrs. Colville Moore, Rowe Street, Sydney.

B.H.R. (DUNEDIN, N.Z.).—This query has been answered for many readers recently. See the reply to G.R. (Redfern).

SIMILES

All sorts of queer queries reach "Wireless Weekly" from readers puzzled over technical matters. Occasionally inquirers draw similes between radio receivers and motor cars. We have now encountered the man who calls forth the mysteries of nature to illustrate his subject. He writes as follows:—"When condenser 2 is out 30 degrees, by bringing condenser 1 out about 10 degrees a howl like a bull calf is what I get. By advancing C2 a few degrees and then C1 a few, I can keep the bull crying right round the dials."

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QUERIES

Queries must be brief and to the point.

Each enquirer is limited to three questions and where possible explanatory sketches or diagrams will faciliate the diagnosis of your trouble

WIRELESS WEEKLY

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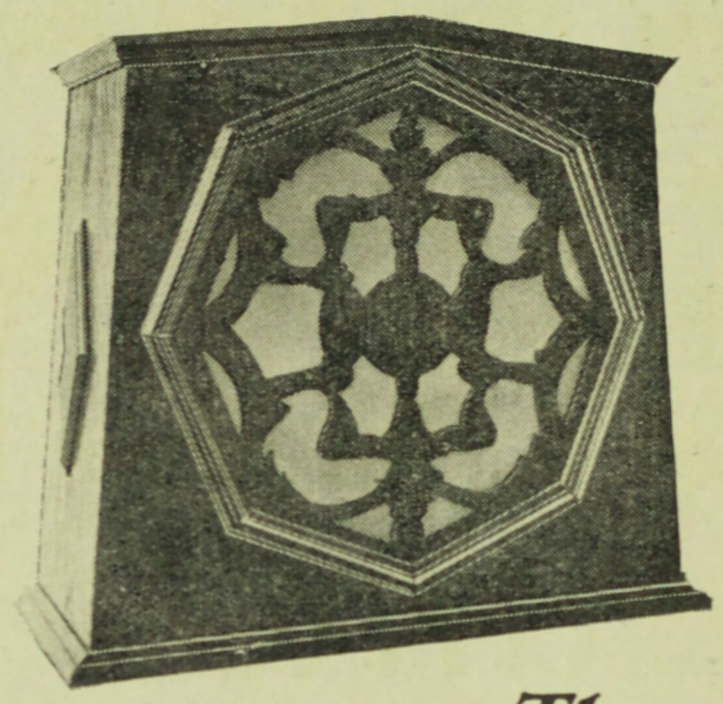

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