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WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 10

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

NUMBER 20



Friday, September 9, 1927.

Price Threepence

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WIRELESS WEEKLY

VOL. 10, No. 29.

FRIDAY, 9th SEPTEMBER, 1937.

More Notes about Television.

THERE are still many references to the supposed early advent of "looking-in." And the hazard, therefore, of disappointment to an expectant public develops apace. It would be a great pity if promises, more or less lightly made, regarding the introduction of television, or radiovision as it should more properly be called in its relation to broadcasting, were not to be fulfilled.

Damage has been done already to young industries that appeal to popular imagination by over enthusiastic statements as to the efficiency of the system concerned. Not infrequently these statements have been made by interested persons who have some financial expectations to realise by early exploitation in the commercial field. Reasonable publicity and propaganda cannot be objected to in developing a new industry or system, but promises should not be made that cannot readily be fulfilled.

The scientists and research workers who are giving their time and energies to the development of a workable system of radiovision are not the offenders in this regard. They have not overstated the immediate possibilities of their systems; their statements have been confined to an explanation of what has been done, and in some cases, the lines of advance have been indicated. It has been the more or less irresponsible writers in the technical press who started, and have continued, the undeserved publicity concerning the early adoption of various systems.

Although the basic principles of transmitting photographs or images were known as far back as fifty years ago, it has only been during the past two or three years that useful progress has been made. The principal explanation is the great concentration of research work on radio phenomena and speech transmission in particular. As in the case of broadcasting the modern Aladdin's Lamp, the valve has had a lot to do with it.

Both in Europe and America great work has been done by inventors and experimenters. While there are no marked differences in the fundamental principles of the various systems, there are important variations in details. The transmission of "still" photos is comparatively well developed; the work of the research engineers of the Telefunken Company in Germany, and of the Radio Corporation of America standing out prominently. In England the work of Baird has been most successful; in fact, his results are specially meritorious when one considers the handicaps he is under as regards facilities and financial assistance, as compared with the large companies.

The frequency band necessary for transmission is much higher and there is no chance at present of transmitting any image that is not close up to the "electric eye" of the sending equipment.

It is clear, therefore, that we must not expect to have any reasonable system of "looking-in" for some time to come.

Catching Up with the Wireless World.

By R. E. CORDER.



THE PRACTICE among ships at sea of asking for medical aid from other vessels carrying doctors is becoming so common that an American concern is compiling a special code book for the purpose.

"BURGLAR BILL," of the wireless world, is being eagerly searched for by Scotland Yard. His method of process is to take the addresses of the houses in different suburbs fitted with radio, and when the master of the house has left for work, he gives the explanation that he has been granted permission to see the set. If he is admitted to the household he takes the set away for "repairs." Suffice to say, the set is not heard of again.

NATIONAL advertising placed in daily newspapers in America by radio interests during the year of 1926 cost more than \$960,000, according to "The Fourth Estate," a newspaper trade journal. The largest users of newspaper space were the automobile advertisers, who spent more than £3,800,000 during last year. However, radio advertising exceeded tyre advertising by more than £100,000.

THE HIGHEST broadcasting station in the United States east of the Rocky Mountains has been established recently at Asheville, N.C. The station has been assigned the call letters WWNC; it has a power of 1,600 watts and it operates on a frequency of 1,010 kilocycles, which is equivalent to a wave length of 399.9 metres. The station has been installed at a point which is 2,896 feet above the sea.

RADIO MANUFACTURERS in the United States produced more than 1,750,000 cone-type loud speakers in 1926, according to a prominent radio statistician, and reports received from manufacturers indicate that the total production of this accessory in 1927 will exceed last year's figure. It is estimated that more than 4,000,000 of the radio receivers operated in this country are equipped with cone speakers and that less than 2,000,000 use reproducers of other types.

A HOWLING RECEIVER: The little boy who got spanked for touching father's radio set.

THE MOTORIST who, after smashing his car against a telegraph pole, wrote to the Government and offered to supply it with a wireless set.

"TELEVISION," declares a scientist, "will be our ordinary means of communication." We shall have to remember to put on our gardening clothes before we ring up the Income Tax Assessor.

RAY: "I say, old fellow, your set is distorting badly. Why don't you tune it properly?"

DIO: "Oh, didn't you know that the stations do that now? They send out a tuning note, so I haven't bothered about tuning for quite a long time."



A MONKEY TRICK: During the interview carried out by Mr. Bruce Hutton with the monkeys—Max, Meritz, and Akka—at the Tivoli Theatre recently, an amusing and unheard-of episode took place. While a member of 2FC's staff was busily engaged looking after the amplifier, Akka climbed up and put his arms round the engineer's neck and kissed him on the cheek. What the engineer said would make a parrot blush and cannot be put into print. When he arrived back at the Studio, the engineer made a request that if ever Station 2FC decided to interview lion tamers or bear tamers, or any other brand of trainers for that matter, he hoped that he would not be put on to the job.

A MEDICAL writer mentions the case of a man with elastic arms. When television comes in he should be a useful performer for broadcasting fishing stories.

WE HAVE received a letter from a reader who tells us that his spouse weighs only sixteen stone, and asks what we can suggest. Of course, this question was not intended for us, but we are always willing to oblige our readers, and our advice is: Better condenser.

ACCORDING to the Bathurst "Times," a well-known radio trader of that city has been enjoying free meat for a whole week as a present from a neighbouring butcher. It seems that the butcher was induced to buy a radio set, which was installed at his residence, to the satisfaction of the family.

ONE EVENING last week while listening in during the leisure hours the butcher's interest was aroused at hearing in the course of the daily market reports from Sydney, a sharp advance in the price of hides. That very night he packed up all the hides in his store and despatched them to the city market. The direct result was soon to hand in the nature of an account sales and cheque for an amount £17 greater than that which he would have received in the usual way, had he not taken immediate advantage of the news from the air.

THE INCIDENT reads humorously, but it has its business aspect. Not long since, a farmer near Young made 5/- a head on a flock of sheep by receiving early intimation of the state of the market on his radio set, and it was recently reported by a Sydney radio firm that a north-west grazer had bought two of the most expensive receivers on the market for the express purpose of keeping in close touch with the weather reports during the shearing season.

For the Love of Mike!

Who is Mike?

Many thousands of listeners-in must have asked themselves this question of the intriguing radio personality personified on our cover picture this week in the company of the amazed Mr. Halbert and Mr. Cochrane. His mysterious confidences have amused thousands. Below we publish an interview with Mike.

WHEN a Studio Manager, Anderson, received letters from several reputable citizens recently asking him to stop the mysterious whispering emanating from 2FC, it was time, one would have thought, to do something drastic. But these communications did not stop at that. After a week's listening their tone changed, for someone at 2FC had stumbled upon the most ingenious thing yet devised for the amusement of radio listeners.

No other radio station in the world, as yet, had thought of the idea, and when this scheme becomes world wide, 2FC will, with a certain amount of pride, lay rightful claim to its origin. But what is it—who is this Mike? I had to ferret out all this information myself, for no one at the station would help me. They profess (with a smile) ignorance of the whole thing.

Listening in last Monday night, at an unexpected moment on the night's programme, "Mike" began his whisperings. I will let him tell the story in his own way. Remember that these little confidences come to one with almost an eerie sensation. This intimate whispering is so different from the correct and practical announcements made from time to time, one seems to be listening to something totally removed from the ordinary radio item.

But to get back to Mike's story, which came in to my room in a sibilant whisper:

"Good evening, friends, Mike here. I am called in the Control Room, 'St. Michael,' because I'm the one they always send to take the Church services or religious meetings—yes, I think so! Would you like to know what has happened to Old Bill? If I can find enough time to-night, I will tell you what happened since you heard him last. Studio or No. 1 Mike as they call him, but we know him as 'Old Bill.' He has been on studio work for months, and knows every-

one, and has to hear everything, whether he wants to or not, from a soprano to a comedian—from a scoubrette to a lecturer.

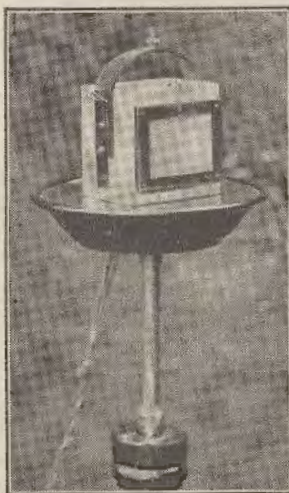
"He is so versatile, they use him as much as they can. Bill has been telling us how he commenced this whispering business, or as we Mikes call it, 'talking in his sleep.' I heard the Chief tell Halbert last week that people had been writing to him about the whispers in the Studio, so thinking the microphone was to blame, they sent Old Bill to the workshop. Here's the announcer coming, so I'll have to wait. (Interruption by Announcer.)

(Later.) "Are you there? St. Michael here again. I was telling you

about Old Bill when the Announcer cut in. Bill told me how these announcers interrupted him without as much as 'by your leave.' Well, Old Bill has been sent away to be overhauled, and a new microphone is to be placed in the Studio every night this week. At least, so I heard Burb say. 'Burb,' of course, is Mr. Burbury; he looks after all we Mikes, and he says they will choose for the Studio the one that comes through best. It is my turn to-night—my turn mind you, after doing three church services yesterday! Sunday night last I was all dressed up and nothing to say, waiting to do a Church Service, when suddenly they switch on to America, and I was left there without a thing to do. (Another interruption.)

(Later.) "Here I am again, and just time to tell you a joke against myself. Every week they put up in the 'Machine Room' where all the Mikes are, a list of places we have to go to. They call these 'Outside Shows,' and one Monday night it had up 'Orphans' Meeting, Warringah Hall.' Some silly fool put 'Saint' in front of Warringah and they thought it was a church meeting, so they sent me across. I had never been to an Orphans' Meeting before, but there must have been a number of orphan boys there by the amount of ginger beer they drank. Every now and then a man would get up and say:—'The next wall is . . . something or other,' and some of the stories I put through that night were rather fishy—yes, I think so!

(Interruption.) "Are you still listening. St. Michael here. While I think of it, the microphone they are going to use in the studio to-morrow night is a new Mike. We call him 'Yank.' He speaks so funnily, and starts everything with 'Lo folks—listening?' You'll hear him to-morrow night. He does all the dance nights, and comes from the States. Mr. Cochrane was in the Machine



"Mike" as he really is.

"Half the Cost because Double the Life"; Burgess.

Room the other day, reading a letter which had come in from somebody who seems to object very much to sousrettes. The writer said: 'If you don't stop those sousrette women, I'll write to the Radio Inspector and tell him to pull down your wavelength!' This is my last chance to talk to-night, as it is getting late. I think I'll have to go back to the Studio—Yes, I think so!

'I put my pencil down, and pondered over the whole thing. What a quaint idea it was! Can't you see all the microphones out in the Control Room, whispering to themselves, and talking about the shows they had been to, and the shows they were going to, and all the tit bits that had happened to them. It appeared to me greatly, so the next night I was at my seat, waiting to hear the murmurings of 'Yank,' and sure enough he came along just after the first group of dance numbers.

'Lo folks, Mike speaking here. I feel all het up talking to you, especially as I'm fresh here. You know, where I come from, way down Michigan, we Mikees don't talk to our folks. No air-ee, but believe me, it's a bully idea, and then some. St. Mike who was in the studio last eve was telling us all about Old Bill, being sent away for overhaul because he started this whispering dodge. Now what do you think of that? Every-body knows how Bill—' (Interruption.) 'Lo, folks, here I am again. Now I'm here to do all the dances. They say the dance numbers come better through me—I know all the tunes so well. It was not long before the boys in the Mike Room called me 'Yank.' They have names for all the Mikees. The one that does the political speeches and lunches they call 'Sprukler.' The chap who does the theatrics they call 'Pompy.' He is always talking about Beppe, and wondering when they are going to broadcast 'Pompodour' again, and he keeps listening with both ears to find out.

'Well I sure have talked some.' (Interruption.) 'Lo, folks, here I am again, I have just learned why I have been waiting to get a word in that Pompy is on to-morrow night, etc., etc.'

'Well, 'Lo, folks, I like you a lot, with all the freshness you brought into my room, and I can see more clearly now how the whole scheme operates. Each microphone

becomes particularly sensitive to the class of item he has to transmit, and in time becomes unresponsive to the items he appreciates least. Now I realise why Old Bill, the Studio Mike, with his versatility, is so valuable. I'm determined to see the Mike Week out and Wednesday night as 'Lo Folks' promised, it was Pompy's night—the one who was always bubbling about Beppe and thinking listeners wanted nothing else but theatrical transmissions. He did not have very much to say. His voice was loud and at times theatrical.

'Good evening, listeners—this is Pompy, the Theatre Mike, in the studio for some reason or other. It's very dull here. No bright lights and music like the theatres. I miss the

chatter, and the Rappers' talk, and the little love liss when the lights are out. They tried Old Bill out at the Theatre one night, but he let some of the stories through that should not have been heard. Of course, I've been trained to choke those down a bit. They used to call me 'Old Censor' until Pompy came to town, but now because I'm always talking about Beppe, they call me Pompy. I'm counting the minutes until Monday, 8th August. They tell me BLO are going to let their listeners hear it also.' (Interruption.)

'I think I ought to tell you to-night before I finish that they have arranged for a 'Highbrow Mike' to come into the studio to-morrow. He is a great joke with the boys. He does all the classical concerts and musical lectures, and we want to see how he gets on in the Studio. Wait until he has to put up with a 'squal' guitar! Then we'll see his old aristocratic face squirm in disgust! Good-night, everybody. See you again on the 8th.'

So that was Pompy. I do not find him the lovable chap that 'Lo Folks' and Old Bill are. One can see how tolerant a studio microphone has to be. How he has to enter into every phase of the programme, and to see that every item receives its fair share of attention in the exposure of his own feelings. Well, Thursday night promised something interesting, for Old Highbrow was due, and sure enough he started off with a complaint.

No sooner had I listened to an item by a comedian than he broke in with a tirade of abuse against the indignity of associating a microphone that had spent his whole life in the atmosphere of the three "B's"—Boethoven, Bach and Brahms—with such ordinary people! All through the night he kept growling at the cruel fate which had brought him to "this." He brightened up considerably after items due to his aristocratic taste by a well known violinist, but lapsed again as the programme proceeded. He survived most of the items, but the musical steepchase—a hutch patch of jazz—proved too much for him. Listeners blamed the engineers when the Station went off the air, but it was Highbrow's fault. He collapsed under the strain of twenty different jazz tunes all rolled into one. On Friday night, the Mike.

(Continued on page 10.)

What is Mike?

THE Reiss microphone is a transmitting instrument of the "variable contact" type. In contradistinction to all other microphones of this type hitherto in use, the Reiss microphone has no diaphragm; thus the sound wave impinge directly on the powdered conductor, which is packed between two fixed electrodes in a shallow cavity formed in a marble block.

The composition of the powder and the manner in which it is packed ensure its complete impermeability to sound waves of all possible frequencies, that is to say, the whole of the sound energy which, owing to the construction of the marble block, takes effect on the powder from one direction only, is effective to vary the contact resistance interposed in the path of the current between the two fixed electrodes.

Dissipation of the sound energy, either by oscillations of the marble block or by reflection of the sound waves from the surface of the layer of powder, is rendered impossible by the manner in which the powder is packed. In particular, the size of the marble block, namely, 100 x 100 x 75 mm., and the material chosen, obviate every possibility of oscillation.

As the result of very accurate measurements, it has been demonstrated that the Reiss microphone transforms the actual wave into proportional variations of resistance over the whole range of musical frequencies and beyond. The direct current resistance of the instrument is approximately 200 ohms, and it maintains this mean value, whether the powder is subject to the influence of sound waves or not. The maximum current load is 100 milliamperes. With this current value and using a push-coil-coupled, four valve amplifier with an amplification factor of approximately 7 per tube, it is possible to produce an energy of about 2 watts, which is quite sufficient to control the transmitter.

As compared with other types of microphones, operating with highly tensioned diaphragms, the Reiss microphone has the advantage of greater sensitivity, as a result of which parasitic noises have been so nearly eliminated as to be quite negligible. Furthermore, the quality of transmission, especially in the case of non-pitched sounds, is considerably improved. There is, moreover, no need to "load" or "strain" the slippers of the sounds with the aid of condensers and inductances, as has hitherto been the case. Voices and music blend with the accuracy of the reed, and lose none of their natural harmony through representation.

The comparatively high resistance of the apparatus permits in the case of long-distance transmission, of the microphone being connected directly to the line so that batteries and amplifiers need only be installed at the broadcasting station.

The Reiss microphone is connected directly to a resistance coupled amplifier without any intermediate transformer. The amplifier comprises two audio tubes which amplify the signal in the absence of power handling, and thus prevents the transmitter from being overloaded when loud sounds are transmitted.

It is produced at E.L.O. London, for faithful rendering of acoustic qualities in transmission and the simplicity of its operation. It was the first station in Australia to make use of the Reiss microphone.

It is the invention of Eugen Reiss, a German, who is famed in radio history. In association with Paul Lieben, he devised the first vacuum tube amplifier, as constructed with the detector aid of Dr. Forest.

2FC Broadcasts to the World

World-Wide Short Wave Broadcast carried out by 2FC last Monday—Heard in India, South Africa, Canada, England and the United States

STATION 2FC, First Empire Broadcaster.

It will go down in history. The first Australian station to be rebroadcast in England, Canada, India, South Africa, and in the United States of America.

Between 2 a.m. and 4 a.m. on Monday last the most famous musicians, singers and statesmen in Australia gathered together in the studio of 2FC to transmit the finest programme ever compiled in Australia. The transmission took place on a special low wavelength through the short wave transmitting station attached to 2FC, and was picked up by the short wave stations of the Marconi Company in India, South Africa, and England, and by the stations of the Radio Corporation of America in Canada and the United States.

The programme was heard by listeners of 2LO, London, between the hours of 5 and 7 p.m. on Sunday, September 4.

Those taking part in the programme did so without payment. They included, The Governor General of the Commonwealth (Lord Stonehaven), The Governor of New South Wales (Sir Dudley de Chair), The Prime Minister of Australia (Mr. S. M. Bruce), The Premier of New South Wales (Mr. J. T. Lang), Dame Nellie Melba, Mr. John Hislop, Miss Stella Wilson, Mr. Andrew McCunn, Mr. T. H. Mostyn, Sir James Fairfax, Mr. Alfred Cunningham, Miss Rene Maxwell, Mr. Raymond Ellis, Mr. Albert Casbon, Mr. Alexander Sverjansky, Mr. Jules Van der Klef, and many others.

To gather together such talent in the ordinary course of events would have cost many hundreds of pounds.

The programme was as follows:—

8 a.m.—
The Chimes of Sydney's General Post Office
Call Sign.
"God Save the King."
Chorus and Orchestra.
Announcement covering full details of the transmission.

A message from the Governor-General of the Commonwealth of Australia, His Excellency, Lord Stonehaven, to other parts of the Empire.

Call Sign.
2 FC Instrumental Trio:
Mr. Lionel Lawson, violin,
Mr. Gladstone Bell, 'cello,
Mr. Lindley Evans, piano,
will play the first movement of the Trio in D Minor (Mendelssohn).

Call Sign.
From GOVERNMENT HOUSE, SYDNEY, the Governor of N.S.W., His Excellency Sir Dudley de Chair will deliver a short message to other parts of the Empire.

Call Sign.
Mr. John Hislop, eminent English tenor, will sing.
Mr. Albert Heiarrott will play the piano.

Call Sign.
From his home at Frankston, Victoria, the Prime Minister of the Commonwealth of Australia, the Rt. Hon. Stanley M. Bruce, M.P., P.C., M.C., will deliver an Empire message, over a land line of 600 miles, to the Studios of 2FC.

Call Sign.
From the Studio, arrangement for two pianofortes:
"White Lies" (Gershwil).
Mr. Frank Hutchens and Mr. Lindley Evans.

Call Sign.
An Empire message from the Premier of N.S.W., Hon. J. T. Lang, M.L.A.

Call Sign.
Miss Stella Wilson, principal of the Gilbert and Sullivan Opera Company.
Mr. Andrew McCunn, Musical Director of J. C. Williamson, Ltd., at the piano.

Call Sign.
A message from the Lord Mayor of Sydney, the Right Hon. T. H. Mostyn, J.P., to the Lord Mayor of London.

Call Sign.
Miss Rene Maxwell (Australian soprano) and Mr. Raymond Ellis (operatic baritone) from the British National Opera Company;

Duet from "L'Ille Dombas."

Call Sign.
A message from Dame Nellie Melba.

Call Sign.
"Talis solo."
"Andante from Concerto in A Minor (Gulbertmann).
Mr. Gladstone Bell.

Call Sign.
Sir James Fairfax, President of the Australian Section of the Empire Press Union, will deliver a message to the Press in other parts of the Empire.

Call Sign.
Mr. Alfred Cunningham, English operatic baritone:
"Simon the Cellarer" (Old English).

Call Sign.
"The Four Waifs," vocal quartette:
"Sally Houser."

Call Sign.
A message from Rt. Hon. W. M. Hughes, P.C., Director of Amalgamated Wireless.

Call Sign.
Mr. Raymond Ellis, baritone:
"It is enough" ("Elijah") (Mendelssohn).
Piano, organ and 'cello accompaniment.

Call Sign.
Mr. Albert Casbon, Conductor of the Prices Edward Theatre Orchestra:
Violin solo.

Call Sign.
A message to Mr. C. R. Marcuse, of England, read by Mr. A. McDonald, Chief Engineer, Amalgamated Wireless.

Call Sign.
Miss Mabel Batchelor, soprano:
"Absence" (Sir Frederick Cressan).

Call Sign.
Mr. Alexander Sverjansky, pianoforte solo:
"The Stream" (Arensky).

Call Sign.
Announcing result of reception overseas.

Call Sign.
Mr. Jules Van der Klef, 'cello solo:
"Arlene" (Popper).

Call Sign.
Madame Emily Markl, soprano:
"Prayer" ("La Tene") (Puccini).

Call Sign.
Mr. Lionel Lawson, violin solo:
"Wings of Song" (Mendelssohn).

Call Sign.
Miss Rene Maxwell, soprano:
"A Prayer" (Haydn Wood).

Call Sign.
Greetings, World Wide.

Call Sign.
"The Four Waifs," vocal quartette:
"Coraline Melodies."

Call Sign.
Final Announcement.
4 a.m.—"God Save the King."

At the piano:
Mr. Andrew McCunn.
Mr. Lindley Evans.
Mr. Ewart Chappele.

The various announcements and call signs will be given by:

Mr. George Carney, well-known English comedian.
Mr. Scott Alexander, English actor.
Mr. Jack Win, English entertainer.

And the following officials associated with Station 2FC:

Mr. A. S. Cochran.
Mr. L. Halbert.
Mr. H. F. Williams.
Mr. E. Gitting.
Mr. F. Chappele.
Mr. O. A. Anderson.
Mr. E. A. Burbary, Engineer, 2FC.

Call Sign.
A message from Mr. E. T. Fink, Managing Director of Amalgamated Wireless (A/asia) Ltd., to wireless interests overseas. (To be read by Mr. L. A. Hook, Assistant Managing Director of Amalgamated Wireless).

The whole of the arrangements were carried out by Farmers' Broadcasting Service, in conjunction with Amalgamated Wireless (Aust.), Ltd., and "The Sydney Morning Herald."

3LO, Too

As we go to press 3LO, Melbourne, announce that on Tuesday night, from 11.45 p.m. to 2 a.m., a short wave broadcasting test on high power will be carried out from their Braybrook Station.

The programme will be given in the studio in the ordinary way and passed on to Braybrook by land line.

Continued on Page Eight

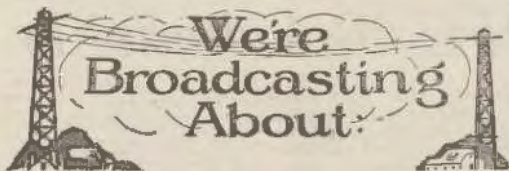
Broadcasts to the World

Continued from Page Seven

It is anticipated the wave length will be 29.8 metres and the power drawn from the mains will be 15,000 watts. At Braybrook the output from the studio is applied through a line amplifier and sub-modulator unit to the grid of the modulator proper, which in turn is coupled to the plate of the special short wave oscillating valves. These valves are of unique design and are enclosed in metal screens in order to distribute the high frequency losses over the whole of the glass envelope and thus reduce the risk of puncture at the high potentials used. The oscillator is worked on the amplifying drive system through the stages of magnification—modulation taking place on the last stage. The output from this is then fed through a specially designed coupling circuit through a leather feed to the distant aerial. The leather lines consist of two highly insulated, tightly stretched wires supported on miniature telegraph poles. The energy from the transmitter is fed into the base of the aerial system by means of a special coupling. Steps are taken to prevent radiation from the leather system and to eliminate reflection so as to ensure the maximum transfer of energy from the oscillating apparatus to the aerial. The advantages of this system are that the aerial may be kept free from interference likely to be caused by conflicting electric fields in and around the actual generating apparatus, building, and other factors likely to cause absorption due to the enormous intensity of the electromagnetic fields set up at frequencies of the magnitude of those to be used for these tests.

The various units of the transmitting equipment are electrically screened from each other, and the frames and panels made of brass. The circuits are so balanced that all fields induced in the frames are neutralized. All high frequency portions of the equipment are supported on plate glass strips to eliminate dielectric losses.

The potential on the plates of the main transmitting valves will be 8,000 volts, supplied by a specially constructed 3 phase double wave rectifier and associated smoothing unit. With this equipment 3LO, Melbourne, will have the most modern and most powerful short wave broadcasting station in the Southern Hemisphere, which should be capable of being heard in any part of the world.



ROY GALLOWAY: A famous English baritone with a long string of important stage and platform triumphs to his credit, Roy Galloway comes to 3LO, Melbourne, as a fresh and pleasing addition to the programmes.

BERYL HAYDEN: A new comedienne at 3LO, who has an extensive repertoire, and is broadcasting many excellent comedy numbers. Coupled with Roy Galloway in comedy duets, she is a delightful listener with her quaint and clever patter and singing.

AUSTRALIAN AUTHORS' WEEK: Commencing Monday, September 12, an Australian Authors' Week has been organised throughout Australia. 3CL has arranged to co-operate with the organizers by arranging special programmes.

A SPECIAL ORGAN recital, to be given in the Adelaide Town Hall by the City Organist (Mr. W. R. Knox), will be broadcast by 5CL on Sunday evening, September 11, at 8 p.m. In addition to organ selections, items by well-known artists will also be broadcast.

Dempsey v. Tunney

A full ring-side description of the fight between Dempsey and Tunney for the world's heavyweight title on September 22, will be broadcast by the Crasley Radio Corporation's super-power station, WLW, Cincinnati, Ohio, U.S.A.

The transmission will be on 63 metres—a short wavelength specially chosen by arrangement with the International Radio Co. (local agents for the Crasley Corporation) to ensure reception here.

Although the broadcast will take place at 10 p.m. Eastern Standard Time, America, on September 22, the corresponding time here will be 1 p.m. the following day (September 23).

AUTHORS' WEEK.

During "Authors' Week" every effort will be put forth to try and stimulate the interest of that very important person, "the man in the street," with regard to Australian authors—not to speak of authoresses. Papers on the subject will be read from Studio 3LO—readings from our favorite native poets will be given, and no stone will be left unturned in our effort to "tell the World" that our home-grown products can more than favourably compare with the majority of the imported stuff we see lining our bookshelves and book stalls.

KATHLEEN SIMMS.

This charming soprano comes to Studio 3LO, Melbourne, from the University Conservatorium of Music. She made a name for herself recently by being selected for second place in the Table Talk Musical Comedy Actress Competition—an honor, indeed, considering the large number of charming and talented competitors.

3CL CHARITY BALL: The 3CL

Charity Ball has been booked to take place in the Maison de l'ance at Glenelg on the evening of August 31, and is causing widespread interest. Tickets are in great demand, and there is every evidence that the function will be very successful. Among the features which will be presented is the arrival of Professor Bravotti from Mars. Other novelties have been arranged, and a number of special musical items are to be given.

ANITA SHAW.

As leading lady with the original "No, No, Nanette" Company, Miss Anita Shaw is no stranger to Australian audiences. She is to appear before the "Mike" at 3LO, Melbourne, shortly, and having an extensive repertoire will be sure to delight listeners-in. Miss Shaw's versatility should suit broadcasting, especially as she has had a series of successes in revue, musical comedy, pantomime and variety the world over.

Higher Class Music Improves 3LO Programmes

3LO programmes have improved out of sight during the last month. At least that is the verdict of many who were inclined to criticise them on the score of lightness. The reason for the change of heart lies in the excellent music that is being provided.

September is to be a banner month in this respect. Mr. J. Sutton Crow, Professor Bernard Heinze and Mr. Fritz Hart are three highly valued men who lead Melbourne's musical thought. All of them are co-operating in making September musically worth while in the regions of the air. On the 11th September, which is a Sunday, Prof. Heinze is providing a programme from the Conservatorium. Some of the finest instrumental music yet given by 3LO will be provided by him. His lieutenant, Sutton Crow, will follow on the Tuesday with a continuation of the opera scheme, of which I have already written. This time the opera will be "Il Trovatore." The next day Fritz Hart will take up the running with a performance from the studio of Beethoven's capital work "Fidelio."

It is significant that while musicians in England and elsewhere are damning the radio as killing music, the best musicians of Melbourne, among whom may be numbered Dr. Floyd, are encouraging the transmission of the best music to listeners. They regard this as aiding in the cultivation of a musical taste. They certainly go to a great deal of trouble to justify their belief that if people cannot, or will not, come to the concert room, the concert must be brought to the people. Anything rather than that the public shall be left to jazz as the only musical provider provided for them.

I was interested recently in observing the reactions of a family to the music of "Floradora." The melodies came over the air from 3LO's studio perfectly. Those who listened to the tuneful opera in the house I was visiting were all young people, brought up on modern musical comedy. When "Tell Me, Pretty Maiden" was sung, and capitally, too, one of them said, "Well, I must say the stuff we get now doesn't compare with that. That number would make the fortune of a modern musical show." They then began to compare the "hits" of "Floradora" with those of a recent show, and came to the conclusion that the former had a dozen, and the latter but three.

Latest news and comment from the Melbourne Studio—Brother Bill—Eileen Castles

By H. ELLO

BROTHER BILL'S TRIUMPH.

NEVER since the advent of broadcasting has a speaker met with such sudden and triumphant success as "Brother Bill," the new children's friend at 3LO, Melbourne, whose Sunday evening talks are giving such widespread delight, that over 800 letters are received every day at the studio with all kinds of requests and messages of appreciation.

So popular have "Brother Bill's" talks become that 3LO, Melbourne, has decided to print them in handy pamphlet form for distribution. Within a week after the announcement was made over the air that "Brother Bill's" talks were available for anyone applying for them no less than 11,381 letters were received by 3LO for copies.

There is a reason—or perhaps many reasons—for his outstanding popularity, but no doubt the main feature of "Brother Bill's" talks is his undoubted understanding of and sympathy with children and the child mind. He is intimately attuned—so to speak—with their moods, and can, therefore, enter into and adapt himself to the true spirit of the occasion. What an inexhaustible field of knowledge of children's likes and fancies he has to draw upon and delight his many thousands of listeners, and how wonderfully well he does it is exemplified by his success.

Who is Brother Bill? That is the question on everybody's lips. Well, some day perhaps we will know, but for the present he is modestly content to come into the spot light only as "Brother Bill," and so as "Brother Bill" he will be lovingly known as the king of children's story-tellers until he decides to emerge from his sanctuary and receive the full glories of his success. He is so very modest and unassuming, however, that it will be very difficult to get him to do so. However, let us hope.

EILEEN CASTLES.

A newcomer to broadcasting, but by no means a newcomer to the majority of listeners, is Miss Eileen Castles, whose beautiful voice will shortly be heard over the air, from studio 3LO, Melbourne. A member of a distinguished musical family (her sister, Miss Amy Castles, enjoys international fame), Miss Eileen has spent all her life in an atmosphere of song, and, during her professional career, has undertaken every type of vocal role, grand opera, oratorio, and has even tripped it lightly as the Fairy Queen in Pantomime. Miss Castles has done an immense amount of work for churches, and her voice is never silent when she is asked to raise it for the sweet sake of charity.

VERSATILE DUO.

Listeners will be glad to hear that the versatile Duo, Bower and Rutherford, are to be included in the programme broadcast from studio 3LO, Melbourne. The finely rendered pianoforte solos of Miss Elsie Bowers, and Mr. Rutherford's banjo solos—to say nothing of his clever impersonation of a "dorkie," form a distinct feature of their novel entertainment, whilst the witty, topical and up-to-date songs which are included in their repertoire add greatly to the enjoyment of their contribution to the programme.

SPECIALS FOR BOYS.

Arrangements have been made to broadcast two very special subjects during the children's hour—subjects that will delight the minds of all boys from the age of six to sixty. The first will be a series of talks on stamp collecting—their origin, values, and water-marks—how to start a collection, how to classify specimens, and a thousand and one other things connected with this fascinating and absorbing hobby, which will make every boy long to possess a stamp album of his own. The second will be the thrilling and adventurous subject of "Going to Sea," and will deal with the various branches and ratings of the service—the A.B. sailing before the mast, the wireless operator, the midshipman, and their duties will be explained from the time they enlist in the service, until they leave it, crowned with honor and glory. Both these lectures are in the hands of an expert—and the series on going to sea delivered by one who has spent the best part of his life on the briny—will be found of more than usual interest.

For the Love of Mike

Continued from Page Six.

"Spruiker," used for Political speeches, Luncheons and Meetings, took up the tale, but he was distressingly dreary and talked unnecessarily, so he was ruled out and the final night, Saturday, heard the Race Mike, "Windbag," interrupting with remarks in racing parlance at the wrong moment, so with relief, I tuned in on the Monday evening to hear "Old Bill" again.

What a fruitily odd voice he has, what a versatile old chap he proved to be, and when he realised that the programme was being relayed to Victoria through 3LO, how he insinuated his gulps and jest about the Yarra, the wide streets in Melbourne, the noisy crowded streets in Sydney. Throughout the evening he was vainly endeavouring to ask his southern listeners the fateful question, "Have you seen 'Our 'Arbor,'" but the announcer kept closing him off at each critical moment, and it was not till 10.50 at the end of the relayed programme, that he was able to triumphantly ejaculate—the time-honoured question.

I went to sleep that night well rewarded for my patient logging of this mysterious and yet intensely intriguing personality, and the quaintness of the idea made a strong appeal to me and I realised that, in the right hands, it was a power that could be welded with far-reaching effect and that the 2FC Mike ("Old Bill") could be the arbiter, the critic, the pioneer, and an "Argus-eyed" influence that could be made an immense power in the land! . . . A hundred thousand listeners each night—what a field!

CAPTAIN DONALD McBEATH.

Listeners will be glad to know that Capt. Donald McBeath, the distinguished violinist, is again to broadcast from Studio 3LO, Melbourne, and his artistic interpretation of many well-known masterpieces, arranged especially for the violin, will be much enjoyed. During the time Capt. McBeath was in America as solo violinist to the renowned tenor, Mr. John McCormack, he had the distinction of receiving personal lessons from Fritz Kreisler, who spoke with great warmth and appreciation of the young artist's skill. Apart from his art, Capt. McBeath is an enthusiastic aviator, and was the first, and he believes the only one—to make a flight under the Niagara Bridge, a rather perilous procedure, for, owing to the strong conflicting currents, the aeroplane nearly came to grief, and everybody was very glad when the plane glided safely to "terra firma."

Mixing One's Wavelengths

ONE of the most curious things about a wireless set is that in receiving a programme you are almost always also entertaining quite a host of angels unawares. Or, if it be admissible to picture angels as so impolite as to be all talking all at once, let us rather say that, in the average sort of set, there is generally an undertone of conversation and music coming in also from other stations all using the ether at the same time. The expert term for this is "Mush," and many people seem to be unaware that much of the distorted reception, queer humming noises, and erratic music are due to this "mush" rather than to the actual station they are listening to.

It may be taken as a rule—although it seems a very queer and self-contradictory rule—that the less efficient your set is, the more stations you can tune into—all at once! We all know the story of the pious old lady who rejoiced greatly over her crystal set because on Sundays she could hear the services from at least two churches at once. But Polly Anna, notwithstanding this cheerful sort of idiosyncrasy, making the best of both worlds, or both wave lengths, can be overdone.

Mixing one's drinks is not regarded as a token of sobriety even in the most festive of circles and when one can still enjoy "Aint She Sweet" on the saxophone from one station, inextricably entangled with "Ass Maria" on the violin, which badly needs tuning, from another station, it is a sign less of cheerful old age than of mental decrepitude.

One does not always relish the swallowing of germs from other stations along with the vitamins of 3LO, but the mischief is most pronounced when one is doing it, as was said, quite unawares. Are you sure that all you hear from that loud-speaker perched high on the raven, above your kitchen door, or elsewhere, is simply 3LO, and nothing more? An indignant listener recently wrote to a sympathetic editor complaining that he got vim along with his 3LO, and bitterly blamed his favorite broadcasting station for that mesalliance. It was almost as if one should denounce the wife of one's bosom for bigamy of the most brazen. Now to have vim in one's set is excellent except when spent in capital letters and belongs to another wave length, and it is also, unfortunately, true of receiving to itself the wavelengths that belong to others, but, in the case under consideration, facts tell a simpler tale. The indignant one's own set was to blame. In the words of the popular song: "You left the door wide open and somebody else crept in."

There are so many wireless sets in use that are designed on the lines of poet Cowper's study door, in which were cut a big hole for the cat and a little one for the kitten. While 3LO is entering in its night, purring on every cat's whisker, there is a stream of fainter and less felicitous Felixes that keep on walking like ghosts through the portals intended for 3LO only. If they were that station's offspring, all would be well, but you really can't "blame the cat" for everything that occurs in an ill-regulated household. First take the beam of, whether of vim or any other station, out of your own set, before assuming that there is a mote in 3LO that needs removing.

It seems an extraordinary thing to assert, yet it is nevertheless quite true that very many wireless sets serve up to their owners fragments of nearly every broadcasting station in Australia, as well as of some beyond the seas, and the less easily you can isolate, for example, IYA, New Zealand, the more likely you are to be getting some of it, tangled up with 2FC. There are thousands of listeners in Australia who hear JOAK from far Japan, just as they imbibe a subtle flavour of Orange Pekoe in their afternoon tea, or like the illiterate but kindly old gentleman who one day discovered that he had been talking prose all his life without knowing it!

In contradistinction to such average sets there are, of course, the better class of receivers that deliver 3LO as pure and as undiluted as the morning's milk, in sealed bottles. These are called "Selective" sets, and in the hands of the owners who know how to select, they are capable of rendering to you every station at its best, uncontaminated with noises from other wave-lengths. But even such refined sets can be mishandled by careless users. Upon the panel of every set, however well built, should be inscribed the wise words of the poet Browning, himself an example of how musical utterances can be grievously marred by unselective receivers. He says: "Oh! the little more and how much it is, and the little less, and what worlds away!" which completely sums up the whole art of twiddling condensers, adjusting rheostats, and all the rest of the art of operating a wireless set.

Just a last word! Remember all does not come from one station that comes from the loudspeaker, unless your set is selective and has been tuned by a selective user. Of the two, the human factor is the more important, and even a mediocre set in good hands will yield results scarcely inferior to the best.

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.



HEARD NEW YORK ON "WIRELESS WEEKLY" SET.

Dear Sir,—On Saturday, 23rd July, I built the 3 valve receiver as described in your issue of the 15th July, 1927, and have had very good results.

On Sunday, 24th July, I picked up 2XAF, New York, at good loud speaker strength, and during the 24 hour test from PCJJ I had no difficulty in receiving that station at any hour. Then yesterday (Sunday, 31/7/27) I picked up station 2XAF at 5.50 p.m. and heard President Coolidge, of U.S.A., make a speech in presenting Colonel Lindbergh with a decoration, and Lindbergh's reply. The announcer at 2XAF stated there were 150,000 people present. After this a special programme for Hawaii was transmitted, and the whole received until 2XAF announced the station was closing down at 6.43 p.m.—The whole of this transmission was received at good loud speaker strength, using 3 Radiotron UX20LA Valves.

This may be of interest to readers of "Wireless Weekly," to which I have subscribed since its inception and submitted accordingly.

Yours, etc.,

H. H. BURRASTON.

Murrurindi.

MOR(S)E TROUBLE.

Dear Sir,—I wish to draw your attention to the fact that country listeners have been considerably interrupted by the Morse code from various stations. Now I know you will say straight away that it is through the set not being selective. I have been working a Magnavox 5, which for selectivity is as good as the next, and one night during last week the programme of each station was interrupted by the Morse code. It appears the Morse comes from several stations. One night 3AR and 5CL were continually interrupted by a dull buzz, and 3LO was subject to a continuous whistling and a far-away speech which was unintelligible. Farmer's 2FC are subject to interruption from Morse code, and it considerably hampers country listeners, as you must admit that while listening to a programme of music, it is

very annoying to have to hear Morse, Morse, Morse.

I write this in good faith and not as a sarcastic complaint, and for the betterment of radio. The country people I find are just beginning to become enthusiastic in wireless matters, and it seems a pity that something cannot be done to rectify this annoyance.

I might state that the transmission from the two Sydney "A" stations is not all that could be desired. This, of course, is subject to discussion, but my own personal experience is that of the two stations, 2FC is somewhat superior, but even then is not very good.

In conclusion, I might add that the Morse at times is so loud that it is almost impossible to hear any other items at all, and it seems to be on occasions on all wave lengths from 350 to 450 metres.

Yours, etc.,

SYDNEY BROOKS LLOYD.

Mosman.

DREAMY DRIVEL.

Dear Sir,—I heartily endorse Jack Blair's views and also think it is time the local broadcasting companies woke up to the fact that the great majority of listeners in are sick of the Sunday services, not only Sunday but also Saturday. If the broadcasting stations are going to cater for religious bodies, punters, indifferent cooks, people who can't read, weather prophets, and other uninteresting subjects, they will soon be better than a sleeping draught.

Cut out churches, football matches, weather reports, cookery lectures, race meetings, tips to punters, lectures of all kinds, announcers' opinions, clock and chimes every half-hour, kids' stories and lies, also pious hymn singing, and let us have something worth listening to; not the dreadful, dreamy drivels we have suffered so long.

Yours, etc.,

THOMAS STILLEY.

Clovelly Rd.

NO ALTERATION NECESSARY.

Dear Sir,—I have been reading with considerable interest the controversy between listeners regarding the nature of the Sunday broadcasting programmes. It makes one wonder just what some people really want for the trifling cost of less than one penny per day to constitute a listener's license. License holders should, when they consider the variety they get for their small contribution, be more than satisfied.

As for the popularity of the broadcast Church services, to my idea this is not to be disputed. A studio service to be conducted for the benefit of listeners alone, which has also been suggested, would not fall into public favour, because a service direct from the Cathedral itself would certainly be more interesting.

How many persons could listen to jazz, etc., six nights from every week, and then actually desire the same form of entertainment on the seventh amazes me to the extreme. I think it is a pleasant departure from the usual programmes to be able to listen to a church service on the Sabbath and enjoy the music of organ and choir.

I live in a town where Sunday sport is well entrenched, but I think I am voicing the sentiments of fellow listeners in this small centre by requesting that the Sunday broadcasting programmes remain unaltered.

Yours, etc.,

JACK WILLIAMS.

Curlewia.

THE MERRY WIDOW.

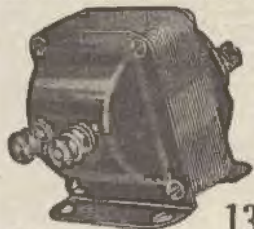
Owing to the great success of the recent production of "The Merry Widow" from studio 3LO, Melbourne, under the direction of Mr. William G. James, a second performance is to be given on September 12th. The principals will be the same as on the first occasion—Madams Saffo Aron will give a good account of the soprano role, which she played throughout England and the Continent with great success—and the two popular announcers, Mr. Alfred Andrew and Mr. Maurice Dudley, are each lending the production able support.

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The Advance Centralize: Brass— .00025 and .00035	12 0
.0005	12 6
The Emmco Stratelyne: Brass— .00025 and .00035	12 0
.0005	12 6

In this week's issue of Wireless Weekly is described a
SHORT WAVE ADAPTOR for your present set

42/5 Here are the Required Parts 42/5

1 Luzerne Polished Hard Rubber Panel, 12 x 7 x 3-16	a. d.	4 3
1 Pilot Kilograd Slow Motion Dial		6 6
1 Philmore 30 ohm. Wire Wound Rheostat		1 10
1 Emmcostad		7 6
1 Mica .00025 Grid Condenser and Gridleak		2 9
1 All American Valve Socket		5 0
1 Radiokes Radio Frequency Choke		8 6
1 Mica Fixed Condenser, .002		1 6
1 Bakelite Sub-Panel, 5 x 4 x 1-8		1 0
8 Nickel-plated Binding Posts, 2d.		1 4
6 lengths Square Tinned Buswire		0 6
2 lengths Spaghetti Tubing, 3d.		0 6
1 Baseboard, 11 x 7 x ½		1 0

Total 42/5 Cost

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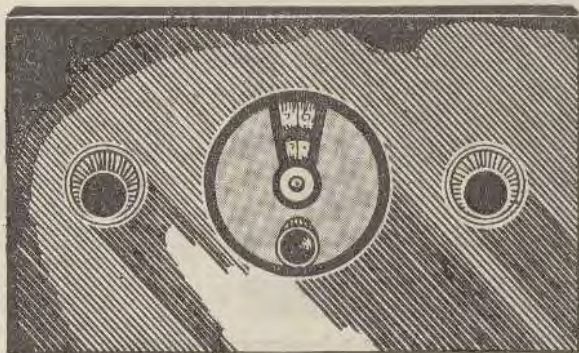
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SYDNEY:
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NEWCASTLE:
569 Hunter St. West.
Phone: New. 1522.



Converting Your Broadcast Receiver for the Short Waves

CONSIDERABLE interest is being evinced the world over in short wave reception. Short wave transmission is coming to the front before very long it is interesting to learn that some of the big American broadcasting stations are staging a programme for overseas countries employing short waves in the vicinity of 30 or 40 metres. Again, Mr. Gerald Marcuse, of London, has entered the field of short wave broadcasters and with a suitable receiver there is no reason why we in this country should not receive it. The wavelengths are 23 and 33 metres, and will be within the range of the receiver about to be described. Melbourne, 3LO, have announced their intention to broadcast on the short waves, so surely to goodness this station will be received by the owners of short wave receiving sets.

Some people who have built short wave receivers seem to have some trouble in tuning in. This may be so for the first week, but should not be a general rule. Usually the short wave broadcasting stations are more easily tuned in than the inter-State stations, but, of course, it is necessary to understand your receiver thoroughly before the best may be had from it.

That world famous station of Phillips in Holland, PCJJ, is still sending out good programmes on the short waves, and it is interesting to note that the Australian Manager is at present on his way to Holland, and will certainly arrange special programmes for Australia. Here alone is a feast for the short wave man.

Think of it, Great Britain, U.S.A., Holland and Australian stations all supplying programmes to be received on a short wave set.

Now comes the question of sets. The average broadcast receiver tuning from 200 to 600 metres, isn't suitable for receiving these very short waves. Another set is necessary, and this receiver must tune to these wavelengths. It is just as well to receive these short wave stations on the loud speaker as on the earphones. All the rest of the family will naturally be

interested to hear overseas stations even although the interest in local broadcasting may have waned. It is obviously selfish to build a one valve short wave receiver for earphone work, yet again if loud speaker reception is required, one or two stages of audio frequency amplification is essential.

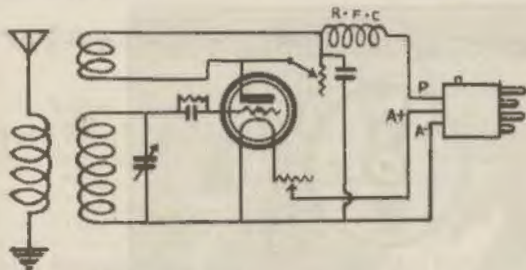
The average loud speaker enthusiast generally owns a broadcasting set, with loud speaker means. Why not make use of the loud speaking portion of the broadcasting receiver? It is known that the audio frequency end of a receiver is not subject to wavelength changes by tuning. If it is transformer coupled, or resistance coupled or impedance coupled, it doesn't matter—it will amplify any energy or signals put into it, irrespective of wavelength. This is interesting, but how can we adapt a short wave receiver to the broadcast receiver? What is common between the receivers? The battery leads only are common. This is so by virtue of the fact that the filament of the valve must be lit and the plate must also be fed with B battery. Since, in a transformer coupled receiver the primary of the first audio transformer takes the place of the phones in a single valve set, and in either case the B battery flows through these units, then it is only necessary to build a one valve short wave receiver and use some convenient means of connecting this to the ordinary audio portion of the broadcast receiver.

This is done by means of a simple attaching plug. The method of connecting the two units together con-

SHORT WAVE ADAPTOR.

Although the parts listed below and mentioned throughout the article were those actually used by us in the receiver described, it must be pointed out that it is not absolutely essential that they be rigidly adhered to. Other parts of similar quality and technical values should function quite satisfactorily.

- 1 Radioc or Directo Panel, 12 x 7 x 3-16.
- 1 Pilot Kilogram Dial.
- 1 30 ohms. Rheostat.
- 1 Emmecstad.
- 1 .00025 Grid Condenser and Leak.
- 1 .00025 Emmco Stratelyne Condenser.
- 1 All American Socket.
- 1 Radiokes Radio Frequency Choke.
- 1 .002 Electrodyne Fixed Condenser.
- 1 Sub Panel, 5 x 4 x 1-E.
- 8 Binding Posts.
- Spaghetti, Baseboard, etc.



sists of three flexible leads soldered to the base of a burnt out valve. The glass of the valve is broken off and the base cleaned of all that adhesive mixture used to keep the glass in position. The flexible leads are soldered to the terminals of the socket, one to the A positive, one to the A negative, and the other to the plate terminal. To identify these terminals, hold the base with the pin towards you; the rear two are A positive and A negative respectively, and the left hand front post is the plate terminal. Solder these flexes in position, using a small soldering iron, then place an identification tag at the other end. Fill up the base with some of that compound from the top of a discarded B battery. Heat the compound first, of course, in an old tin, then run it in, or place some small broken pieces in the plug or base and with a hot iron melt them together, filling the base full and allow to cool.

Now the set construction may be carried out. First of all look at the circuit diagram. There you will see that this is a plain straight out three coil receiver, with the regeneration controlled by a variable resistor connected across the plate, and the tickler. This resistor may be one of the range of Eumecastors or a Centralab resistor, or a Chrostal of from zero to 500,000 ohms. resistance.

A .00025 mfd. variable condenser tunes the grid or secondary coil, the aerial or primary coil being left untuned or aperiodic. These coils may be of the Eimcocoil short wave coils or the Bremer Tully short wave coils. If desired, the Airzone short wave coil may be fashioned into shape. This Airzone coil is purchased at so much for a length of 12 inches, and as many turns as required may be cut off.

The illustrations show the subpanel on which are mounted the necessary terminals to support the Airzone coils. The primary and the reaction coil should be made variable in relation to the secondary coil, so it is advisable to bend the beginnings and the

ends to a flat plane and slip them through the holes of their respective terminals. Once a suitable position has been found for the tickler it need not be touched again, relying on the variable resistor to control oscillation. The primary also will be found to have one good position and may be left tuning the secondary with the variable condenser, which, by the way, should be equipped with a vernier dial.

The choke coil is absolutely indispensable. When by-passed with a .002 mfd. condenser, it will permit the plate lead to be long enough to reach the broadcast set. If omitted, a low growl will be heard and as this is not desirable, the choke coil must be used.

The primary coil may be of 4 to 6 turns, the secondary coil for tuning from 20 to 45 metres, 7 turns, and 13 turns will tune from 40 to 90 metres. The reaction coil may be 5 turns; but up to 7 should be tried. Don't be afraid to try different coil values, quite a lot depends on this. In actual practice, it will be found that an angle of 60 degrees from the base will suit both primary and reaction coils, and the receiver will operate over the whole wave band.

The B battery is also a consideration from the point of view of oscillation. Adjust this carefully to suit the valve, which for preference should be a good detector. On actual test a Cosmor Point One 6 volt valve proved wonderful, and as high as 45 volts plate voltage could be used in conjunction with it.

The panel should be placed on a flat surface and marked out and drilled. The panel drilling template given here will be of some value to you. Note that the aerial and earth terminals are on the subpanel and not on the front panel. While marking out, provide for the screw which fixes the vernier dial to the panel. The dial makers usually provide a template for the purpose of indicating just

where this screw should go. Also remember that the panel has to be fixed to the baseboard, so make provision for three holes at the bottom of the panel, one in the centre and one each one inch from each edge.

While the drill is in your hand, drill the subpanel. The plan view will indicate where the terminals go. No dimensions are given, for these depend on just what form of inductances you desire to use. Raise this subpanel off the baseboard, using small pillars of wood or rod half an inch high. Lay out the rest of the parts, screwing down carefully. It is a good plan to give the baseboard a coat of shellac varnish to take away from the bare appearance.

The wiring is very easy. The wiring diagram shows this clearly. It is advisable to use varnished cambric spaghetti covered wire for wiring, as this allows short point to point wiring, which is better than busbar from the point of view of stray capacities.

Start the wiring by joining the aerial terminal to one side of the primary coil mount and the earth terminal to the other side. Then run from the aerial side of the secondary terminals right to the fixed plates of the variable condenser, linking up one side of the grid condenser "en route." The opposite side of the variable condenser—the moving plates—is joined to the remaining secondary terminal and to one filament terminal of the valve socket and to one side of the .002 fixed condenser.

The grid condenser is clamped under the grid terminal of the valve socket. Next join the plate of the valve socket to the correct reaction terminal and to one side of the variable resistor. The other side of the variable resistor link to one side of the choke and to the remaining side of the .002 fixed condenser and to the remaining reaction terminal. The rheostat has one side joined to that F terminal of the valve socket which hasn't a connection to it. All that now remains to be done is to link up the plug connections.



Arise in the Morning—
REFRESHED!
 Turn off the **PHILIPS**
CHARGER and remove
 your accumulator—
RECHARGED!



Philips "PCJ" Model
 Loud Speaker... £6/10/-



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 Eliminator... £9/15/-

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MODERN radio receivers demand an "A" Battery Charger. How else can the accumulator be kept up to its highest efficiency? Admit that a Charger is a necessity. Then select the best.

To tell of all the advantages of the Philips Charger takes a special booklet, but here are some of its major points:—

SILENT—to a degree. There is no annoying buzz.

SURE—in operation. You can be certain that when you turn the instrument off, that your accumulator has had an efficient charge.

SIMPLE—so much so, in fact, that the deliberate shorting of the output leads can do no harm.

SAFE to such an extent that it is impossible to receive the slightest shock.

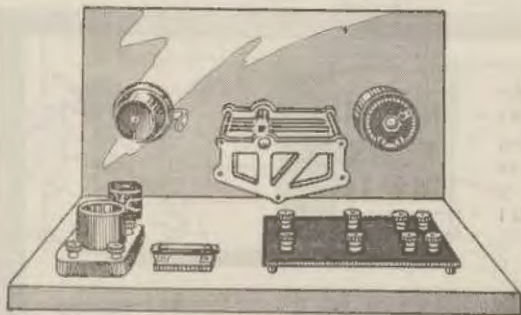
SAVING in money, for a charge costs but 3d. or 4d.

BUILT OF THE FINEST MATERIALS, IT WILL LAST FOR YEARS, SERVING EFFICIENTLY AND WELL

£5/5/-
 complete

Made in the same factory that built and maintains Radio Station PCJ which first relayed London Broadcast Programmes to the world and enabled Royalty to speak to the four corners of the globe.

PHILIPS RADIO



The hex marked P is joined to the remaining side of the choke and the A positive is connected to the open side of the rheostat. The A negative is linked up with that P terminal of the valve socket to which is connected the .002 fixed condenser. This completes the wiring.

Test out. Select the coils for the waveband you desire to hear. More signals will be heard on the 20 to 45 metre band than on the other wave-lengths, so try those for a start. It is presumed that the broadcast set is connected up to the batteries and the loud speaker. Remove the detector valve from the broadcast receiver and substitute the plug with the three connections in its place. The aerial and earth should be removed from the broadcast set and linked up to the short wave adaptor. A valve, of course, is necessary in the adaptor.

Turn the variable resistes until the receiver oscillates nice and smoothly. Adjust the primary or reaction coils if no oscillation takes place. Then

tune with the vernier dial. The first station heard may be a bit mussy. The variable resistor will adjust this and clear it up nicely. Mostly this you hear Morse code, so if you know if you will have some interesting hours. More and more experimenting is being conducted on short waves, so it will not be long before every country in the world will be sending out special programmes on these short waves. And it will be nice to hear the results on a speaker.

Radio Tests Motor Cars.

SOME time ago a statement was made acknowledging that radio was an enemy of the motor car, for while the former tends to keep people out of doors the latter demands their presence at home. At variance with that statement is an announcement from an official of a well-known U.S. automobile manufacturer to the effect that radio apparatus has been employed in a man-

ner to actually benefit the producers of motor cars.

A particular installation of sensitive microphone, amplifiers, head phones and indicating meters at the Franklin factory is used by the tester in the rear axle dynamometer room to locate rough spots on teeth of differential ring gears.

Coooped up in a double walled, sound proof box, the tester listens to the whirr of softly engaging gears picked up by the microphone and stepped up through three stages of power amplification while his eyes watch the vibrating finger of a gigantic dial that measures the delicate pulse of the current consumed in reproducing the sound.

Small Acceptable Limit.

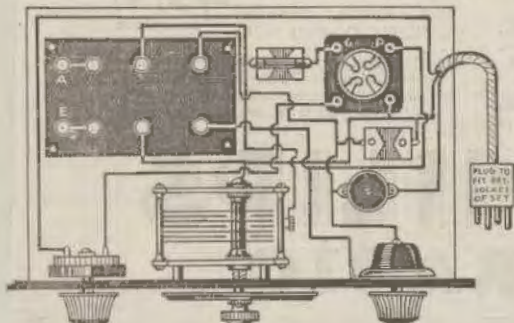
Three points on the dial are the limits between which he is permitted to pass the gears. Three one-thousandths of an ampere that whispsr through the loud speaker in hours, staticlike murmur reveal by pitch and intensity the most minute roughness on the polished surface of the gears as they glide over each other at forty miles an hour.

Two massive wheels of steel are whirling at each end of the axle, representing the weight of a median bowling along under a thirty-horsepower load. A regulation speedometer on the instrument board clicks off the miles, the speed indicator creeping higher and higher. It reaches forty and simultaneously comes the flash of a pulled switch and the hiss of escaping air that clamps down the broad band of a transmission brake against the flying drive shaft, also, equipped with a standard universal joint.

Within 4½ seconds the wheels are stopped and the operator has pressed his microphone like a doctor's stethoscope to various portions of the gear case. He tests both in acceleration and deceleration, for the effects vary as different faces of the gear teeth are subjected to pressure.

Twice each axle is speeded up and the brake applied; then the most exacting test of all, the coast. At a forty mile speed the power is snapped off and the momentum of the wheels is permitted to run down of its own accord. It is in this test that microscopic burrs or roughness on the edges or surface will make their presence know if at all. If they are heard and are beyond the three milli-ampere limit the gears are sent back to the machine shop to be repolished; if not, they are passed on to the assembly line.

Adjustment of the transmitting apparatus is so delicate that care must be taken it does not pick up and reamplify its own sound or the almost imperceptible vibrations that penetrate the test house from the factory.



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IT was a rare and envied thing in the days of old to be able to conjure up a genie capable of laying the world at your feet. To possess a magic lamp or a magic ring was the ambition of emperors.

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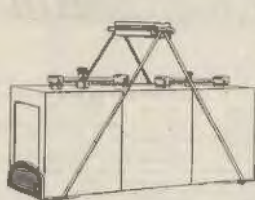
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Adjustable from 1 to 15 inches.

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We are Distributors for the famous Batteries and have fresh stocks arriving from the factory almost daily.

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Small size, for 1 and 2 Valve

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WP 40—42 Volts 12/6

WP 60—60 Volts 18/-

Heavy Duty size, for 3 or
more Valves.

XP30—30 Volts 16/-

XP40—42 Volts 21/-

XP60—60 Volts 31/6

"A" BATTERIES.

Standard, 4½ Volts 9/6

"C" BATTERIES.

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METERS FOR BATTERY TESTING.

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BROADCASTING PROGRAMMES

for the COMING WEEK

Friday, Sept. 9
2FC, SYDNEY.

Farmer's Broadcasting Service.

Wave Length, 443 Metres.

EARLY MORNING SESSION.

7 a.m. to 9 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
10.1 a.m.—Studio music.
10.15 a.m.—"Sunday Morning Herald" news service.
10.25 a.m.—Studio music.
10.35 a.m.—A reading.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Marching music for school children.
11.5 a.m.—A.P.A. and Renter's Cable Services.
11.10 a.m.—Studio music.
11.15 a.m.—A talk on home cooking and recipes by Miss Ruth Furst.
11.25 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
12.1 p.m.—Stock Exchange, Bret. call.
12.15 p.m.—Official weather forecast, rainfall.
12.3 p.m.—Studio music.
12.15 p.m.—Summary of "Sydney Morning Herald" news service. Rugby wireless news.
12.25 p.m.—Studio music.
12.30 p.m.—Marching music for school children.
12.40 p.m.—Annie Payne, mezzo.
12.45 p.m.—"Big Ben."
12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
12.53 p.m.—Studio music.
12.55 p.m.—"Big Ben." Weather intelligence.
1 p.m.—"Evening News" midday news service. Producers' Distributing Society's report.
1.05 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
1.15 p.m.—Stock Exchange, second call.
1.20 p.m.—Marching music for school children.
1.30 p.m.—Annie Payne, mezzo.
1.35 p.m.—"Cargoes" (Coningsby Clarke).
1.45 p.m.—Studio music.
1.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
1.55 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 1 p.m.—"Big Ben" and programme announcements.
1.15 p.m.—Studio music: Gertrude Lambert.
1.25 p.m.—Fosse Brakell, contralto.
1.35 p.m.—"Shepherd's Cradle Song" (Somervell).
1.45 p.m.—Studio music.
1.55 p.m.—A reading.
2 p.m.—Marching music for school children.
2.10 p.m.—Clady's Aubin, soprano.
2.15 p.m.—"Be Still Blackbirds" (Skinnerman).
2.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
2.30 p.m.—Gertrude Lambert, soprano.
2.40 p.m.—"Big Ben." Frank Botham, baritone.
2.45 p.m.—"Vagabond's Song" (Cundell).

- 4.5 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.15 p.m.—Fosse Brakell, contralto.
4.20 p.m.—Clady's Aubin, soprano.
4.25 p.m.—"A Song of Sunshine" (Thomas).
4.35 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.35 p.m.—Studio music.
4.40 p.m.—Frank Botham, baritone.
4.45 p.m.—"Blue Dragons" (Russell).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—THE WENTWORTH SYMPHONIC DANCE ORCHESTRA under the baton of Cyril Kaye.
5 p.m.—"Big Ben." Close down.
5.10 p.m.—EARLY EVENING SESSION.
5.10 p.m.—The Chimes of 2FC.
5.15 p.m.—"The Hello Man" talks to the children.
5.15 p.m.—A Recital by Madame ADA BAKERS' Juvenile pupils:
Duet, "Fry my Ruem" (Slater).
Song, "Lullaby."
"Little Irish Girl" (Lover).
Recitations, by little Joan Fench.
Duet, "New Life" (Giebel).
Song, "The Fairy Laundry" (Phillips).
Chorus, "Hush! here comes the Dream" (Mackay).
6.40 p.m.—Dinner music.
7 p.m.—"Big Ben." Last midday sporting information by the 2FC Racing Commissioner.
7.10 p.m.—Daily's market reports (wheat, wheat and stock).
7.15 p.m.—Fruit and Vegetable markets.
7.20 p.m.—Weather and shipping news.
7.25 p.m.—"Evening News" late service.

NIGHT SESSION.

- 7.45 p.m.—Programme announcements.
7.50 p.m.—A talk on Bridge.
8 p.m.—"Big Ben."
8.10 p.m.—Laurence Macaulay, baritone:
(a) "You Lovely Thing" (Andersen).
(b) "Hear me! Ye winds and waves" (Handel).
8.3 p.m.—"Do you Know?"

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

- 2FC—Farmer's Broadcasting Station, Ltd., Sydney, wavelength 443 metres, power 5000 watts.
2BL—Broadcasters' Ltd., Sydney, wavelength 223 metres, power 5000 watts.
2GB—Theosophical—Broadcasting Station, Ltd., Sydney, wavelength 318 metres, power 3000 watts.
2KY—Traded and Labor Council, Sydney, wavelength 250 metres, power 1600 watts.
2LU—Otto Sandel, Sydney, wavelength 267 metres, power 400 watts.
2MBC—Mackellar Bros., Bathurst, wavelength 275 metres, power 250 watts.
2IE—Electrical Utilities Supply Co., Sydney, wavelength 292 metres, power 200 watts.
2BK—Burgin Electric Co., Sydney, wavelength 318 metres, 100 watts.
2HD—H. A. Douglas, Newcastle, wavelength 258 metres, 100 watts.

- 8.9 p.m.—Maggie Foster, violin solo:
(a) "Serenade" (Schubert).
(b) "Minuet" (Paderewski).
8.17 p.m.—W. F. Kay will talk on "Noted Stage Villains."
8.22 p.m.—An Act from the Tivoli Theatre.
8.25 p.m.—Maggie Foster, violin solo:
(a) "I'll Climb the Highest Mountain."
(b) "When you and I were young, Maggie."
8.30 p.m.—Latest weather forecast.
9 p.m.—"Big Ben."
Eleanor Stanton, contralto:
(a) "Orpheus with his Lute" (Sullivan).
(b) "The Last Hour" (Kramer).
8.6 p.m.—William Bowyer (basso) and William Graham Smith (soprano):
Duet: (a) "When Sun is Sweet" (Benedict).
(b) "The Moon has raised her Lamp" (Benedict).
9.15 p.m.—Jules Van Der Klei, 'cello solo.
9.20 p.m.—Braston Gibb will talk of the personality of Macaulay.
9.30 p.m.—Laurence Macaulay, baritone:
(a) "Fort o' Sydney" (Brack).
(b) "Sea Dogs" (Anstey).
9.38 p.m.—Ad Cree, Scotch comedian.
9.45 p.m.—William Bowyer (basso) and William Graham Smith (soprano):
Duet, "Here's to the Maiden of Backful of Nineteen" (17th Century).
9.47 p.m.—Gilder Paltini, soprano:
(a) "Cradle Song" (Grotchianoff).
(b) "I hear a thrush at eve" (Caldman).
9.55 p.m.—Ad Cree, Scotch comedian.
10 p.m.—"Big Ben."
Jules Van Der Klei, 'cello solo.
10.1 p.m.—Eleanor Stanton, contralto:
(a) "The Swallow" (Brahms).
(b) "The Swallow" (Brahms).
10.15 p.m.—Ad Cree Scotch comedian.
10.20 p.m.—Gilder Paltini, soprano:
(a) "Gara Noem" from "Rugantino" (Verdi).
(b) "The Birds" (Rowley).
10.27 p.m.—Jules Van Der Klei, 'cello solo.
10.32 p.m.—William Bowyer, bass solo:
(a) "Nelson's gun" (Lohr).
(b) "Dick Whittington" (Byrne).
10.40 p.m.—The Wentworth Symphonic Dance Orchestra, under the baton of Cyril Kaye.
10.57 p.m.—Late news and announcements.
11 p.m.—"Big Ben."
The Wentworth Symphonic Dance Orchestra.
11.50 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

Broadcaster's Ltd.

Wave Length, 333 Metres.

Friday

EARLY MORNING SESSION—7 to 9 a.m.

MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and Chimes.
Musical programme from Studio.
10.40 a.m.—News from the "Daily Telegraph Pictorial."
10.50 a.m.—Musical programme from the Studio.

- 11 a.m.—G.P.O. Clock and Chimes.
Announcements.
11.6 a.m.—Musical programme from the Studio.
11.15 a.m.—Talk on "Sports," by Miss Varley.
Broadcasters' Women's Sports Authority.
Social Notes: Replies to correspondents by Mrs. Jordan.
Talk on "Sweet-Making," by Praciella.
12 noon.—G.P.O. Clock and Chimes.
Special Ocean Forecast and Weather Report.
12.3 p.m.—Heinwick Panatzo Musical Recital.
12.45 p.m.—Information: Mail, Shipping, and Post Directory.
1.12 p.m.—Bats in call by wireless.
1.20 p.m.—Fruit Market Report.
1.22 p.m.—Vegetable Market Report.
1.24 p.m.—London Metal Market Report.
1.26 p.m.—Dairy and Farm Produce Market Report.
1.30 p.m.—G.P.O. Clock and Chimes.
Average Market Report.
1.35 p.m.—Fish Market Report.
1.44 p.m.—Babbin Market Report.
1.54 p.m.—News from the "Sun."
1.58 p.m.—Hilbert Instrumental Quartet: Direction, Carl Czerny.
2.30 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.

- Having information broadcast immediately after each Race, by courtesy of the "Sun."
3 p.m.—G.P.O. Clock and Chimes.
4 p.m.—News from the "Sun."
4.15 p.m.—Civil Service Stores Trip, direction, Miss de Courcy Bremer.
5.10 p.m.—G.P.O. Clock and Chimes.
News from "The Sun."
5.40 p.m.—Country Women's Session: Its Objects, by Miss Wilkinson.
5.50 p.m.—News from the "Sun."
6 p.m.—G.P.O. Clock and Chimes.
Civil Service Stores Trip.
6.15 p.m.—Aerial Show.
6.30 p.m.—Musical programme from the Studio.
6.40 p.m.—News from the "Sun."
6.45 p.m.—Resume of night's programme.
6.47 p.m.—Racing Results.
6.50 p.m.—Special Ocean Forecast.
6.55 p.m.—G.P.O. Clock and Chimes.
Close down.

EARLY EVENING SESSION.

- 8.40 p.m.—G.P.O. Clock and Chimes.
Children's Session.
8.50 p.m.—Musical programme from the Studio.

RIFICAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and Chimes.
Australian Mercantile, Land and Finance Co's Report.
Weather Report and Forecast, by courtesy of the "Sun."
Producers' Distributing Society's Fruit and Vegetable Market Report.
Stock Exchange Reports.
Grain and Fodder Report ("Sun").
Winey Products Report ("Sun").
7.15 p.m.—Country News from the "Sun."
7.20 p.m.—Talk by Mr. Gregory, of the N.J.M.A.
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' Typical Chorus.
8.15 p.m.—Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.
8.13 p.m.—Mr. Dudley Helmsich (baritone).
8.20 p.m.—Mr. Kylie Sylvanus (dramatic artist).
8.21 p.m.—Ely Pair (suitable troubadour).
8.24 p.m.—Broadcasters' All-Sports-Expert will talk on Football.

- 8.40 p.m.—Cec Morrison and his Gloomchasers, broadcast from the Ballroom of the Bondi Casino.
8.50 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Marsu, Govt. Meteorologist.
9 p.m.—G.P.O. Clock and Chimes.
9.11 p.m.—Broadcasters' Light Orchestra.
9.15 p.m.—Jana Friedman (soprano) of the Victoria of Variety.
9.31 p.m.—Cec Morrison and his Gloomchasers, broadcast from the Ballroom of the Bondi Casino.
9.41 p.m.—The Sporting Editor of the "Sun" will talk on the Prospects of Saturday's Racing.
10.1 p.m.—Broadcasters' Light Orchestra.
10.11 p.m.—Mr. Dudley Helmsich.
10.18 p.m.—Mr. C. Fely.
10.25 p.m.—Cec Morrison and his Gloomchasers, broadcast from the Ballroom of the Bondi Casino.
10.35 p.m.—Mr. Kylie Sylvanus.
10.42 p.m.—Resume of following day's programme.
Announcements.
10.50 p.m.—Cec Morrison and his Gloomchasers, broadcast from the Ballroom of the Bondi Casino.
11 p.m.—G.P.O. Clock and Chimes.
National Anthem.

2GB, SYDNEY

Teleophical Broadcasting Service.

Wave Length, 316 Metres.

Friday.

- 9 a.m.—Music.
9.45 a.m.—Chorale Talk.
10.15 a.m.—Music.
10.25 a.m.—Psychological Clinic.
10.40 a.m.—Music.
10.45 a.m.—Health and Diet.
10.50 a.m.—Close down.
3.30 p.m.—Music.
3.37 p.m.—Address by Mrs. Durman.
4.52 p.m.—Music.
4.57 p.m.—Address by Mrs. Wood.

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

- 3LO.—Broadcasting Company of Australia, Ltd., Melbourne, wavelength 371 metres, power 5000 watts.
4QL.—Queensland Radio Service, Brisbane, wavelength 350 metres, power 4000 watts.
GCL.—Central Broadcasters' Ltd., Adelaide, wavelength 395 metres, power 5000 watts.
4WF.—Western Farmers, Ltd., Perth, wavelength 1250 metres, power 6000 watts.
T2L.—Tasmanian Broadcasters, Ltd., Hobart, wavelength 355 metres, 3000 watts.
3BH.—British Business and Technical College, Melbourne, wavelength 235 metres, power 100 watts.
3UZ.—O. J. Nilson & Co., Melbourne, wavelength 315 metres, power 100 watts.
4GR.—Gold Radio Electric Service, Townsville, Queensland, wavelength 294 metres, power 100 watts.
3BA.—Sport Radio Broadcasting Station, Adelaide, wavelength 330 metres, power 1000 watts.
3DN.—3DN Pty. Ltd., Adelaide, wavelength 313 metres, 500 watts.

- 4.22 p.m.—Music.
4.30 p.m.—Close down.
5 p.m.—Music.
7.5 p.m.—Address by R. E. Bennett.
7.13 p.m.—Music.
7.20 p.m.—Address by Mr. F. Haulton.
7.30 p.m.—Music.
7.35 p.m.—Address by Mr. Walter Hunt: "The Anæsthetic Massage."
7.40 p.m.—"Break, Break, Break."
7.50 p.m.—Announcements.
7.55 p.m.—Violin solo, Monica Herder.
1. "Irish Air," Hill.
2. "Song of the Volga Boatman" arr by Krevler.
8.5 p.m.—Address by Professor Ernest Wood.
8.20 p.m.—Songs by Madam Chambers.
8.25 p.m.—Violin solo, Miss Inez Leung.
1. "Romance from Concerto" (Wieniawski).
2. "Allegro con Fuoco" (Wieniawski).
8.35 p.m.—Song Cycle accompanied by the 50th Instrumental Quartet. Artist, Clement Hocking.
9 p.m.—Mr. J. K. Powell.
9.15 p.m.—Songs by Madam Chambers.
9.24 p.m.—Violin solo, Dan Scully.
1. "Spanish Dance" (Sarasate).
2. "Minute in E flat" (Beethoven).
9.30 p.m.—Address by Miss Gladys Blake.
1. "A Little Love, a Little Kiss."
2. "Happy Song."
9.35 p.m.—Instrumental Trio. Monica Herder, Marjorie Lane, Ade Brook.
9.40 p.m.—Talk.
10 p.m.—Close down.

2UW, SYDNEY

Teleophical Broadcasting Service.

Sandel Radio, Ltd.

Wave Length, 307 Metres.

Friday.

- 9 a.m.—News, shipping, mail, musical items.
9.50 a.m.—Resume of week's programme.
10 a.m.—Close down.
10 p.m.—Musical items.
10.45 p.m.—Resume of week's programme.
3 p.m.—Close down.
3 p.m.—Musical items.
4.55 p.m.—Resume of week's programme.
6 p.m.—Close down.
7 p.m.—What to go.
7.10 p.m.—Musical items.
7.15 p.m.—Mr. Greenwood: Talks to the Motorist.
7.50 p.m.—Musical items.
9.25 p.m.—Resume of week's programme.
9.50 p.m.—Close down.

3LO, MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

Friday.

MIDDAY SESSION.

- 12 noon.—Time signal. Metal prices received by the Australian Press Association from the London Stock Exchange this day.
British official wireless news from Fitzroy-Reuters and the Australian Press Association cables. "Argus" news service.
12.30 p.m.—WALTER CHAMPNEY, assisted by EILEEN GILBERT, Entertainers:
Dance Song, "When I MARRY Sir John."
Song, "They Won't Know O' Come from the Country."
12.50 p.m.—JOHNSTON'S STUDIO BAND:
Overture, "Zampa."
March, "Brilliant."
12.40 p.m.—Stock Exchange information.
12.45 p.m.—JAMES H. TAYLOR:
"The Blind Pilgrimage" (Ceningsby-Clark).
"Dana" (McGill).

- 12.50 p.m.—JOHNSTON'S STUDIO BAND:
Gavotte, "Frisella."
12.57 p.m.—HUXHAM'S SERENADERS:
Edith Huxham, Rene Miller, Lena Deane,
Hugh Huxham, Dolly Burdett, Johnny
Marks, Enid McLean—"In Twenty
Minutes of SONG AND STORY."
1.17 p.m.—Meteorological information. Weather
synopsis for Victoria, Tasmania, South
Australia and New South Wales. Ocean
forecast. River reports for Victoria, Tas-
mania, South Australia and New South
Wales.
- 1.25 p.m.—JOHNSTON'S STUDIO BAND:
Tramline Solo, "The Victory."
1.32 p.m.—ERN TROTMAN, humorist:
"The Minstrel Show."
1.40 p.m.—JOHNSTON'S STUDIO BAND:
Corner dust, "Besses of the Bara."
by W. Honey and J. Robinson.
1.45 p.m.—JAMES RILEY, Tenor:
"State O Mine" (Edith).
1.48 p.m.—JOHNSTON'S STUDIO BAND:
"Grand selection from Gounod."
2 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—STUDIO ORCHESTRA:
"Old English Country Airs."
2.10 p.m.—MISS FRANCES FRASER:
"January Bride."
2.15 p.m.—STUDIO ORCHESTRA:
Selection of Minnets and Gavottes.
2.32 p.m.—MOLLY MACKAY, Soprano:
"Lullaby" (Hraham).
2.40 p.m.—STUDIO ORCHESTRA:
"The Ash Grove" (Weich).
2.49 p.m.—STUDIO ORCHESTRA:
"Cockney Suite," Part 1.
2.59 p.m.—HUXHAM'S SERENADERS:
Edith Huxham, Hugh Huxham, Rene Miller,
Dolly Burdett, Lena Deane, Johnny Marks,
Enid McLean.
In Court Day in the Wayback:
"THE VILLAGE COTTAGE."
3.10 p.m.—STUDIO ORCHESTRA:
"Cockney Suite" Part 2.
3.18 p.m.—MOLLY MACKAY, soprano:
"Nymphs and Sylvans" (Bernberg).
"The Hoot Coo."
3.25 p.m.—STUDIO ORCHESTRA:
"Novellette" (Marquis).
3.30 p.m.—MRS. M. CALLAWAY MAHOD:
"The Art of Decoration."
3.45 p.m.—"Herald" news service. Stock
Exchange information.
4 p.m.—Close down.

EVENING SESSION.

- 5.30 p.m.—Answers to letters and Birthday
Greetings by "BILLY BUNNY."
6 p.m.—STUDIO ORCHESTRA:
"Farewell Symphony"—Prosto (Haydn).
6.10 p.m.—MIKE YOKEL, the famous wreat-
her, will tell the children a story.
6.20 p.m.—STUDIO ORCHESTRA:
"Farewell Symphony—Adagio."
6.40 p.m.—"Herald" news service. Weather
synopsis, shipping movements.
6.55 p.m.—Stock Exchange information.
6.57 p.m.—Fish Market reports by J. R. Hor-
rett, Ltd. Rabbit prices.
7 p.m.—River reports.
7.3 p.m.—Market reports by the Victorian
Producers' Co-operative Co., Ltd.—Jules,
Dairy Produce, Potatoes, Onions, Newmarket
Sheep sales.
11 p.m.—Market reports of fruit by the Victo-
rian Fruitlers' Association.

NIGHT SESSION.

- 1.15 p.m.—Under the auspices of the DE-
PARTMENT OF AGRICULTURE:
MR. R. T. ARCHER, Senior Dairy Inspector,
will speak on "Results of Pig Feeding Experiments."
7.25 p.m.—STUDIO ORCHESTRA:
"Dance of the Hours" (Pochellio).
7.40 p.m.—WALTER CHAMPNEY, assisted by
EILEEN GILBERT:
Duet—"Quarrelling," from "The Country
Girl."
Walter Champney: "Stop and Look and
Listen."

- 7.55 p.m.—MR. H. K. LOVE:
"Technicalities."
8 p.m.—COLLINGWOOD CITIZENS' BAND:
Overture, "Triumph of Corcora."
March, "Newcastle" (Sulch).
8.10 p.m.—ERN TROTMAN, humorist:
"Singers and Talkers" (Kent-revised Trot-
man).
"Gibenstein Calls" (Kent-revised Trotman).
Patter.
8.18 p.m.—STATION TRIO:
"Overture de Evroses" (Rise).
8.28 p.m.—MR. C. J. WILLIAMS:
"To-morrow's Stadium Event."
8.35 p.m.—COLLINGWOOD CITIZENS'
BAND:
Waltz, "Vision of Salome."
8.45 p.m.—"The Captains of the Associated
Football will talk on
"To-morrow's Semi-final Match."
8.55 p.m.—Winners of LAUGHING CON-
TESTION recently held by JLO Melbourne,
who will give exhibitions of their winning
laughs:
Hazel Maude,
Archie Clarke,
Joe Bird.

- 9 p.m.—TASMA TIERNAN, 'cello:
Chants Russes (Solo).
9.10 p.m.—JAMES RILEY, Tenor:
"Songs of Araby" (Clay).
"Eden Almonds" (Thomas).
9.17 p.m.—STUDIO ORCHESTRA:
Overture, "William Tell."
9.25 p.m.—MOLLY MACKAY, soprano:
"April Moon" (Bacon).
"The Second Minuet" (Bosley).
9.33 p.m.—COLLINGWOOD CITIZENS'
BAND:
Cornet solo, "When You and I Were Young,
Margie" (Louis W. Simonette).
9.42 p.m.—ERN TROTMAN, humorist:
"At a Musical Evening."
"The Distribution of Prizes."
9.59 p.m.—"CARDANO," Mr. H. A. Wolf,
speaking editor of "The Argus" and "Austra-
liasian," will speak on Saturday's races.
10 p.m.—STUDIO ORCHESTRA:
"Rubeville Suite" (Lafe).
10.8 p.m.—MOLLY MACKAY, soprano:
"A Heart that's Free" (Robyn).
"The Say" (Warwick-Evans).
10.15 p.m.—Road Notes. Meteorological in-
formation.
10.25 p.m.—COLLINGWOOD CITIZENS'
BAND:
Selection, "Works of Haydn."
10.35 p.m.—HUXHAM'S SERENADERS:
Edith Huxham, Hugh Huxham,
Rene Miller, Dolly Burdett.

NEW ZEALAND STATIONS:

(Corrected List).

1YA, Auckland, The Radio
Broadcasting Co. of New
Zealand, Ltd.Power 500 Watts; Wave-
length, 333 Metres. Silent
Night, Monday.2YA, Wellington, The Radio
Broadcasting Co. of New
Zealand, Ltd.Power 3000 Watts; Wave-
length, 420 Metres.3YA, Christchurch, The Radio
Broadcasting Co. of New
Zealand, Ltd.Power 500 Watts; Wave-
length, 306 Metres. Silent
Night, Thursday.4YA, Dunedin, The Radio
Broadcasting Co. of New
Zealand, Ltd.Power 750 Watts; Wave-
length, 463 Metres.

- Lena Deane, Johnny Marks,
Enid McLean.
In a Maori Musical Scene:
"Maui, My Maori Maid."
10.50 p.m.—"Argus" news service. British
official wireless news from Rugby.
THE ROYAL AUTOMOBILE CLUB OF
VICTORIA'S SAFETY MESSAGE for
today is for FERVIDITY:
"Better be fired with enthusiasms for
safety than fired for recklessness."
11 p.m.—OUR GREAT THOUGHTS:
"Caution, though very often wasted, is a
good risk to take."—H. W. Shaw.
11.1 p.m.—JOB ARONSON AND HIS SYN-
COATING SYMPHONISTS.
11.49 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Queensland Radio Service
Wave Length, 385 Metres.

Friday.

MIDDAY SESSION.

- 1 p.m.—Market reports, weather information,
"The Daily Mail" and "The Daily Standard"
News.
1.10 p.m.—WILLIAM CARLTON:
1.30 p.m.—Lunch hour music, played by Hotel
Carlton Symphony Orchestra.
FROM THE OBSERVATORY:
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

- 2.30 p.m.—A programme of Music by
the Studio Orchestra, including—Overture,
"Richmond" (Benelouis); waltz, "The Silver
Fountain" (King); Hungarian Two-step,
"The Glass Palace" (Poloni); waltz,
"Four Little Lads" (Dillon); intermezzo,
"Spanish Romance" (King); chaconne,
"Mona" (Muscat); waltz, "L'Idéal"
(Griff); one-step march "La Ruosa" (Gau-
de-Tobert).
4.15 p.m.—"The Telegraph" News.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6 p.m.—"Daily Standard" news, weather in-
formation, announcements.
6.30 p.m.—Bedtime Stories, by "The Sand-
man."
7 p.m.—Market reports, stock reports.
7.30 p.m.—Weather news; announcements;
"Daily Standard" news.
7.45 p.m.—Standard time signal.

NIGHT SESSION.

FROM THE RECEPTION HALL:

- 7.45 p.m.—The Real W.E.A. Music Club of the
City. The following artists will illustrate
Mr. Sampson's recital tonight: Miss Col-
ledge (piano), Miss Vada Jeffries (first
violin), Miss Larcoll (second violin), Miss
Gwen de Grant (viola), Miss Mary Jeffries
(cello).

FROM THE STUDIO:

- 9 p.m.—Meteorological weather forecast.
Week-end Road Information for Motorists,
officially supplied by the Royal Automobile
Club of Queensland.

ANZAC HOSTEL CONCERT.

The latter portion of the programme will
comprise a concert, relayed from the Anzac
Hostel, Kangaroo Point.

FROM THE ANZAC HOSTEL:

- 8.15 p.m.—Eurlone solo, "Floral Dance"
(Moss), Mr. Stua. Mitchell, mezzo-soprano
solo, "My Dear Son" (Saulstern), Miss
Dorrie Yarrow, recitation, "Digger Re-
miniscences"—Part II, Mrs. Vic Ibrahim,
quatuor, "Little Tommy Went A-Fishing,"
Anglo-Male Quartette; contralto solo, "Sun-
shine and Rain" (Blumhardt), Miss Alice

Haven; musical monologue, "In 15 Parts" (Leslie Crawley); Mr. Leo Giganti; baritone solo, selected, Mr. Brian Mitchell; mezzo-soprano solo, "As Dawning" (Cedema); Miss Thorne Yarrow; meditation, "Digger Remembrance"—Part II; Mr. Yr. Brahm; quartette; "The Lovely Rose," Anglo Male Quartette; contralto solo, "Slave Song" (Del Negro); Miss Alice Haven; musical monologue, "The Slaves' Wakeful Sleep" (Wintler); Mr. Leo Giganti; quartette; "Jim," Anglo Male Quartette; popular melodies by concert party; accompanist, Mr. Cyril Belsky.

7 p.m.—"The Daily Mail" news.
Weather news.
Close down.

5CL, ADELAIDE

Central Broadcasters, Ltd.
Wave Length, 396 Metres.

Friday

MORNING SESSION—12 noon to 2 p.m.

AFTERNOON SESSION.

7 p.m.—Chimes.
8 p.m.—Relay from the Maple Leaf Cafe: Orchestral Selections.
8.15 p.m.—From the Reader: Musical Items and Social Notes.
9 p.m.—Chimes.
9.15 p.m.—Relay from the Aradina Cafe: Orchestral Selections.
Vocalist, Miss Alys Watson, soprano.
9.35 p.m.—Station announcements.
Messrs. S. C. Ward and Co.'s Stock Exchange Intelligence.
9 p.m.—Chimes.

EVENING SESSION.

9 p.m.—Chimes.
9.15 p.m.—Relay from the Covent Garden Restaurant:
Dinner Music.
9.30 p.m.—Medicine Stories.
9.44 p.m.—Running time of the East West Express.
9.45 p.m.—Bedtime Story continued.
10 p.m.—Messrs. S. C. Ward and Co.'s Stock Exchange Intelligence. Market Reports by Messrs. A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S. A. Farmers' Co-operative Union, Taylor Bros. Retail Grocers' Association and Jew's Fish Market Reports.
10.15 p.m.—Sporting talk by "Windbag."
10.30 p.m.—Football talk by "Highmark."
10 p.m.—Chimes.
10.15 p.m.—Fanny Brandenberg, soprano.
10.34 p.m.—Studio Orchestra.
10.39 p.m.—Gwen Collett, contralto.
10.50 p.m.—Studio Orchestra.
10.55 p.m.—Fanny Brandenberg, soprano.
10.59 p.m.—Studio Orchestra.
10.59 p.m.—Gwen Collett, contralto.
11 p.m.—Meteorological information.
11.15 p.m.—Dalgety's wheat report.
11.3 p.m.—Studio Orchestra.
11.15 p.m.—Alys Watson—in popular numbers.
11.3 p.m.—Under the supervision of the S. A. Agricultural Society, Mr. C. F. Anderson (Manager of the Paradise Poultry Station) will talk.
11.32 p.m.—Studio Orchestra.
11.42 p.m.—Alys Watson—in popular numbers.
11.49 p.m.—Studio Orchestra.
11.51 p.m.—"Advertiser" News Service. Wireless Shipping, Windbag's Sporting Service.
11.58 p.m.—Studio Orchestra.
11.59.30 p.m.—Relay from Glenelg:
The Madona Dance Band.
11.59.30 p.m.—Tomorrow's programme (dated announcements, Meteorological information, National Anthem.

6WF, PERTH

Western Farmer's.
Wave Length, 1250 Metres.

Friday.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, News, and Cables.
1 p.m.—Time signal from Perth Observatory.
1.15 p.m.—Weather news, supplied by the Meteorological Bureau of Western Australia.
1.3 p.m.—Solo Quartette.
2 p.m.—Close down.
2.30 p.m.—Tune in.
2.35 p.m.—Musical programme from the Studio, including Organ selections, played from the Grand Theatre, Murray Street.
4.38 p.m.—Close down.
4.45 p.m.—Tune in.
4.50 p.m.—Musical evening for the kiddies, by Annie Marjorie and Luciea Henry, Leslie Perry and Duffy.
7.29 p.m.—Stock and Share Intelligence. Market Reports. Cable, News by courtesy of "The West Australian" Newspaper Coy.
7.45 p.m.—Racing talk, by the Sporting Editor of "Truth" Newspaper Coy.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

POPULAR NIGHT.

8.3 p.m.—Musical programme, including Vocal Assisting Artists, by the Misses Maers and De Broyal, Instrumental Duo, of the s.s. Kersida.
9 p.m.—Talk: "Gardening Notes," by Mr. E. Hughes, representing Messrs. Dawson and Harbison.
10 p.m.—Late news items by courtesy of "The Daily News" Newspaper Coy.
10.15 p.m.—Station news announcement.
Weather Report and Forecast.
10.30 p.m.—Close down.

FOREIGN BROADCASTERS.

JOK—Nagoya Radio Broadcasting Co., Nagoya, JAPAN; 345 metres, 1000 watts. (Announcement in English and Japanese).
JOKK—Osaka Central Broadcasting Co., Osaka, JAPAN; 253 metres, 1000 watts. (Announcement in English and Japanese).
JOAK—Tokyo Broadcasting Co., Tokyo, JAPAN, 374 metres, 1000 watts. (Announcement in English and Japanese).

JFC—Batavia Radio Vereeniging, BATAVIA, 228 metres, 10 watts.
KERM—Manila, PHILIPPINE ISLANDS; 413 metres, 1000 watts. (Announcement in English and Philippine).
RGU—"Hawaii Advertiser," Honolulu, HAWAII, 270 metres, 500 watts.
KGO—Oakland, CALIFORNIA; 281.2 metres, 5000 watts.
KPL—Los Angeles, CALIFORNIA, 467 metres, 5000 watts.
KOA—Denver, COLORADO; 322.4 metres, 5000 watts.

7ZL, HOBART

Tasmanian Broadcasters, Ltd.
Associated Radio Co.
Wave Length, 484 Metres.

Friday

MORNING SESSION—11 a.m. to 12 noon.

AFTERNOON SESSION.

3 p.m.—G.P.O. Clock Chimes.
8.1 a.m.—Tune in selection.
8.5 p.m.—Hobart Stock Exchange questions.
Weather information.
Items of interest.
2.15 p.m.—Orchestral selections by 7ZL Orchestra.
4.15 p.m.—Educational talk or Musical Items.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.10 p.m.—Children's Corner with the "Radio Lady."
7.15 p.m.—Young Folks Gardening Chat, by Mr. George Nelson.

NGBT SESSION.

7.30 p.m.—Fruit, Poultry and Poultry Reports, through the courtesy of Roberts and Co., Ltd., Murray Street, Hobart.
7.45 p.m.—Gardening Talk, by Mr. George Nelson, Glen Nurseries, Cascades.
7.50 p.m.—"Mercury" special Tasmanian news service.
Hobart Auction Produce Sales.
Hobart Stock Exchange Quotations.
Weather forecast.
8 p.m.—G.P.O. Clock Chimes.
8.1 p.m.—Sports Budget, supplied by Mr. E. W. Newell of Hobart Sports Depot.
8.5 p.m.—Orchestral Selections, by 7ZL Orchestra.
9.30 p.m.—During the evening numbers will be played from 7ZL Studio at the great Radio Expedition, Town Hall, Hobart.
9.30 p.m.—Chat on Saturday's Football, by "Snowy" Marsh.
9.45 p.m.—"Mercury" Official Wireless News.
9.50 p.m.—"Mercury" special Interstate News Service.
Ships within wireless range.
Tasmanian District Weather Reports.
9 p.m.—Weather forecasts.
Station announcements.
Travelers' news and information.
National Anthem.

Saturday, Sept. 10

2FC, SYDNEY

EARLY MORNING SESSION—7 to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.1 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A talk by the 2FC Racing Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben" Studio music.
11.1 a.m.—A.P.A. and Hunter's Cable Services.
11.15 a.m.—Studio music.
11.2 a.m.—A talk on Gardening, by Mr. G. J. Lockley ("Religion").
11.30 a.m.—Close down.
MIDDAY AND AFTERNOON SESSIONS.
12 noon.—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, etc. call.
12.3 p.m.—Studio music.

BRIGHT STAR

SUPREME IN EVERY TEST

A, — B, & C

BATTERIES

They're Coming to You !!

These Super Power Radio Batteries of the Bag type construction insure greater radio enjoyment.

Cost the same as ordinary batteries. Although BRIGHT STAR Radio Batteries cost no more than ordinary batteries, you are getting up to 40% more power—greater lasting qualities and the surpassing joy of radio entertainment clearly reproduced.

To-day — to-day — “hitch your Radio to a
BRIGHT STAR”

BRIGHT STAR



SEND FOR FREE CATALOGUE

FACTORY REPRESENTATIVES:

International Radio Co. Ltd.
200 CASTLEREAGH ST. :: :: SYDNEY

- 12.30 p.m.—"Sydney Morning Herald" news service.
 Nightly wireless news.
- 12.35 p.m.—Studio music.
- NOTE: The J.P.C. Racing Commission will describe in the running, the events of the Tailor's Club Spring Meeting at Randwick.
- 1 p.m.—"Big Ben." Weather intelligence.
- 1.3 p.m.—"Hearing News" midday news service.
- 1.55 p.m.—Studio music.
 During the afternoon the following musical items will be given:
 The Crystal Palace Theatre Orchestra.
 The Wentworth Symphonic Dance Orchestra, conducted by Mr. Cyril Kaye.
 Doris Reed, novelty pianist (from the studio).
- 4.50 p.m.—Complete resume of the day's sporting events.
- 5 p.m.—"Big Ben" Close down.
- EARLY EVENING SESSION.
- 5.50 p.m.—The Chorus of S.P.C.
- 6.25 p.m.—"The "Hedge Man" talks to the children.
- 6.50 p.m.—Story time for the young folk.
- 7.40 p.m.—Dinner music.
- 7 p.m.—"Big Ben."
 Latest sporting information.
- 7.15 p.m.—Weather intelligence.
- 7.35 p.m.—"Evening News" late news service.

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
- 7.50 p.m.—A talk on Life-Saving.
- 8 p.m.—"Big Ben."
 Donald Mack, baritone:
 (a) "The Bull-dogger" (Martin).
 (b) "A Farwell" (Liddle).
- 8.5 p.m.—Win and Windie, English entertainers.
 8.16 p.m.—Raymond Ellis, English baritone and Enid D'Arcy (soprano) will present the second of a series of Operatic numbers, representing the comedian and soprano in Opera.
 Mr. Ellis will include items from "Don Giovanni," "The Barber of Seville" and "Hansel and Gretel."
 Miss Enid D'Arcy (soprano) will sing:
 (a) "Vai che sagete" ("Figaro") (Mozart).
 (b) "Quando m'en va" ("La Boheme") (Ponchi).
- 8.30 p.m.—Ellis Price, entertainer:
 (a) "An old sweetheart of mine" (Harris).
 (b) "Simpson" (Harris).
- 8.35 p.m.—Donald Mack, baritone:
 (a) "The land of the Haribonina" (Oilers).
 (b) "How sleeps the Christmas Peto" (Quilter).
- 8.41 p.m.—Shirley Cooke, entertainer:
 "Thinking" (Morgan).
- 8.47 p.m.—Win and Windie, English entertainers:
 "Thrilling Experiences" (Win).
- 8.52 p.m.—Enid D'Arcy, soprano:
 (a) "Life's Boonspoon" (Riego).
 (b) "O Ship of my delight" (Phillips).
- 9 p.m.—"Big Ben." Latest weather forecast.
 The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
- 9.15 p.m.—Shirley Cooke, entertainer (from the Studio):
 "Russian Lullaby" (Berlin).
- 9.18 p.m.—The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
- 9.24 p.m.—Raymond Ellis, English baritone.

- 9.42 p.m.—Win and Windie, English entertainers:
 "Hushhads" (Win).
- 9.48 p.m.—Shirley Cooke, entertainer:
 "New Pic" (Oilers).
- 9.51 p.m.—The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
- 9.57 p.m.—Ellis Price, entertainer:
 "Tom Sawyer Whitewashes the Fence" (Mark Twain).
- 10.14 p.m.—The Wentworth Symphonic Dance Orchestra.
- 10.24 p.m.—Shirley Cooke, entertainer:
 "Bottle" Around.
- 10.28 p.m.—The Wentworth Symphonic Dance Orchestra.
- 10.45 p.m.—Ellis Price, entertainer:
 (a) "Tale of a Two Cent Stamp" (Atton).
 (b) "Woh in It" (Atton).
- 10.46 p.m.—The Wentworth Symphonic Dance Orchestra.
- 10.54 p.m.—Len Maurice, popular baritone.
 10.57 p.m.—Late news and announcements.
- 11 p.m.—"Big Ben."
 The Wentworth Symphonic Dance Orchestra.
 11.15 p.m.—Len Maurice, popular baritone.
 11.18 p.m.—The Wentworth Symphonic Dance Orchestra.
- 11.32 p.m.—Len Maurice, popular baritone.
 11.36 p.m.—The Wentworth Symphonic Dance Orchestra.
- 11.45 p.m.—National Anthem.
 Close down.
- 2BL, SYDNEY
- Saturday.
- EARLY MORNING SESSION—7 to 8 a.m.
- MORNING SESSION.
- 11 a.m.—G.P.O. Clock and Chimes.
 Musical programmes from the Studio.
 11.15 a.m.—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.
 12.4 p.m.—News from the "Sun."
 12.15 p.m.—Sporting and Athletic Pictures.
 12.18 p.m.—What's on at the Pictures and Theatres.
- 12.50 p.m.—Brunswick Pathegram Musical Revue.
- 12.40 p.m.—News from the "Sun."
 12.50 p.m.—Racing Resume.
 1.35 p.m.—Musical programmes from the Studio.
 1 p.m.—G.P.O. Clock and Chimes.
 Musical programme from Studio.
 1.10 p.m.—Sporting talk and athletic extracts for the day: Lacrosse, Hockey, Tennis, Football, Snelling, Rowing.
 1.20 p.m.—Musical programme from the Studio.
 1.30 p.m.—G.P.O. Clock and Chimes.
 Talk to Children and Special Entertainment for Children in Hospitals.
 2 p.m.—G.P.O. Clock and Chimes.
 Serial Story.
 2.15 p.m.—Musical programme from the Studio.
 2.25 p.m.—Racing resume.
 2.30 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun."
 During the afternoon Sporting Information will be broadcast, by courtesy of the "Sun," interspersed with musical items and broadcasting of Football matches.
- 5 p.m.—G.P.O. Clock and Chimes.
 Racing resume.
 5.3 p.m.—Close down.
- EARLY EVENING SESSION.
- 8.45 p.m.—G.P.O. Clock and Chimes.
 Children's Session.
 8.52 p.m.—Musical programme from the Studio.

- 7.15 p.m.—Results of all sporting and athletic information, including Racing, Bowls, Tennis, Athletics, by courtesy of the "Sun."
 7.30 p.m.—Country news from the "Sun."

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
 Broadcasters' Topical Chorus.
 8.3 p.m.—Sporting programme, with musical items by the following:
 King's Mandolin Orchestra.
 Mr. Bert Warner (comedian).
 Mr. Dud. Osborne (descriptive artist).
 10.15 p.m.—The Ambassadors Dance Band, broadcast from the ballroom of the Ambassadors. During intervals between Dances "Bin" news will be broadcast.
 12 p.m.—G.P.O. Clock and Chimes.
 National Anthem.

2UW, SYDNEY

Saturday

- 7 p.m.—Where to go.
 7.10 p.m.—Musical items.
 8.25 p.m.—Resume of coming week's programme.
 9.30 p.m.—Close down.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

11 a.m. to 4.15 p.m.

AFTERNOON SESSION.

- 8 p.m.—Description of RODGER VALLEY STEELCHASE about 2½ miles.
 MOONEE VALLEY RACES, by "Musket," of "The Sporting Globe."
- 8.5 p.m.—STUDIO ORCHESTRA. Musical comedy sketches:
 "A Country Girl."
 "Betty."
- 9.10 p.m.—Description of LEAGUE FOOTBALL, SOUTH MELBOURNE v. GEELONG, at South Melbourne, by Mr. Rod McGregor (three-quarter time).
- 9.20 p.m.—STUDIO ORCHESTRA:
 "Mary."
- 9.30 p.m.—Description of RODGER HANDICAP, 1½ miles, MOONEE VALLEY RACES, by "Musket," of "The Sporting Globe."
- 9.35 p.m.—STUDIO ORCHESTRA:
 "The Merry Widow."
- 9.4 p.m.—Description of LEAGUE FOOTBALL, SOUTH MELBOURNE v. GEELONG, at South Melbourne, by Mr. Rod McGregor (half time).
- 9.10 p.m.—Description of CORDBOROUGH HANDICAP, seven furlongs, at MOONEE VALLEY, by "Musket," of "The Sporting Globe."
- 9.15 p.m.—STUDIO ORCHESTRA:
 "Airs, Ancient and Modern."
- 9.40 p.m.—Description of NOLA NALLA WELTER, six furlongs, MOONEE VALLEY RACES, by "Musket," of "The Sporting Globe."
- 9.45 p.m.—Description of LEAGUE FOOTBALL, SOUTH MELBOURNE v. GEELONG, at South Melbourne, by Mr. Rod McGregor (three-quarter time).
- 9.45 p.m.—"Herald" news service. Stock Exchange information.
- 8 p.m.—Description of LEAGUE FOOTBALL, SOUTH MELBOURNE v. GEELONG, at South Melbourne, by Mr. Rod McGregor (final score).
- 9.15 p.m.—Close down.

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EVENING SESSION.

- 6.30 p.m.—Sporting results.
- 6.40 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKA-KOOKA."
- 6.40 p.m.—STUDIO ORCHESTRA: "March of the Dwarfs" (Muskowski).
- 6.47 p.m.—MR. BUTCHER will speak to the children about "Stamp Collecting."
- 6.53 p.m.—STUDIO ORCHESTRA: "In a Camp of the Ancient Britons" (Kestley).
- 6.46 p.m.—"Herald" news service. Weather reports, Shipping movements.
- 6.47 p.m.—Stock Exchange information.
- 6.52 p.m.—Fib Market reports by J. E. Bennett, Ltd. Rabbit prices.
- 6.53 p.m.—River reports.
- 6.58 p.m.—Newmarket sheep sales by the Associated Stock and Station Agents, Bourke street, Melbourne. Market reports by the Victorian Producers Co-operative Company, Ltd. Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
- 7.10 p.m.—Market reports of Fruit by the Victorian Fruitgrowers' Association, compiled by "The Fruit World."

NIGHT SESSION.

- 7.15 p.m.—MR. C. KILIS: "An Answer to Abdul."
- 7.30 p.m.—MR. E. E. FERGOTT: "Australian Medical Plans."
- 7.45 p.m.—MR. CHARLES NUTTALL: "Old Fashioned Ideas."
- 8 p.m.—Official opening of the All-Electrical Exhibition in the Exhibition Building, Melbourne, by Hon. T. Turner, M.L.A., Minister for Electrical Undertakings. Chairman: Sir John Macdonald, G.C.M.G., K.C.B.
- 8.15 p.m.—PRAIRIAN CITY BAND: "The Hercules and Pollux."
- 8.25 p.m.—MOLLY MACKAY, Soprano: Aria, "Dupes le jour."
- 8.30 p.m.—Shipping intelligence.
- 8.31 p.m.—PRAIRIAN CITY BAND: Grand March from "Tanhauser" (Wagner) Monna, "Simple Aveu" (Thomas).
- 8.40 p.m.—ERN. TROTMAN, Harmonist: "A Limerick Competition" (set piece). "Women."
- 8.48 p.m.—ONE-ACT PLAY: "Colonel Havers." Played by AGSTIN COOK and STELLA JONES.
- 8.8 p.m.—PRAIRIAN CITY BAND: Intermezzo, "My Syrian Maid" (Rimmer).
- 8.13 p.m.—MOLLY MACKAY, Soprano: "Pipes of Pan," from "The Arcadians." "The Cuckoo" (Lohmann).
- 8.25 p.m.—LIEUT. G. E. RANKEN: "With the Fleet in the Orkneys."
- 8.45 p.m.—PRAIRIAN CITY BAND: March, "Entry of the Gladiators" (Fulck).
- 8.55 p.m.—GILBERT AND CHAMPNEY: Duet, "Before and After Marriage." Eileen Gilbert, "They Always Pick on Me."
- 10.15 p.m.—PRAIRIAN CITY BAND: Waltz, "Saxie" (Hinson).
- 10.23 p.m.—ERN TROTMAN, Harmonist: "Tittle (B) at piano with banjoists." "Storytime."
- 10.30 p.m.—PRAIRIAN CITY BAND: March, "Gethsemane Commander" (Fuljan).
- 10.35 p.m.—GILBERT AND CHAMPNEY: Walter Campbell, "His's Proud and His's Beautiful."
- 10.45 p.m.—Laird sporting results. Announcements.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MANSNAK for to-day is for
MOTORISTS: Never take a chance. Remember that car can be built in 30 days. It takes 21 years to make a man!

- 11 p.m.—OUR GREAT THOUGHT: "Do you know what a man is? Aye not with beauty, good shape, discourse, manly love, learning, goodness, virtue, rough liberality, and such like, the spice and salt that season a man?"—Shakespeare.
- 11.1 p.m.—JOE ARNOLDSON AND HIS SYM-PATIZING SYMPHONISTS.
- 11.40 p.m.—Close down.

4QG, BRISBANE.

Saturday.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

- 3.30 p.m.—A Mailbox for Little Listeners, by "The Weatherman."
- 4.30 p.m.—Close down.

EARLY EVENING SESSION.

ASCOT SCHOOL.

- The Bedtime Story Session to-night will be relayed from the Ascot State School. The stories will be provided by the combined staff of 4QG.
- FROM ASCOT STATE SCHOOL:
6.50 p.m.—Bedtime Stories.
- FROM THE STUDIO:
7.15 p.m.—Racing Results.
- 7.30 p.m.—Today's Football Play Described.
- 7.50 p.m.—Sailing Notes, by Mr. P. Smith.

NIGHT SESSION.

BUNDABERG MUSICAL FESTIVAL.

- To-night's programme will comprise the relay of the final session of the Bundaberg Musical Festival from Queen's Theatre, Bundaberg. The relay will be a notable one owing to the fact more than 200 miles of land line will be used to effect transmission. It will represent the longest relay yet attempted within the State.
- FROM QUEEN'S THEATRE, BUNDA-
BERG:
8 p.m.—Final session, Bundaberg Musical Festival.
- FROM THE STUDIO:
10.40 p.m.—"The Sunday Mail" news. Weather news. Close down.

5CL, ADELAIDE.

Saturday.

MORNING SESSION.

- 11 a.m.—Chimes.
- 11.10 a.m.—Radio music.
- 11.10 a.m.—"Advertiser" news service.
- 11.25 a.m.—Studio music.
- 11.45 a.m.—"Advertiser" news service.
- 11.55 a.m.—Studio music.
- 12 a.m.—Chimes. Station announcements. Close down.

AFTERNOON SESSION.

- 1 p.m.—Relay from the (Chalchahuac) Race-course, a running description of the Fort Adelaide Racing Club will be given by Mr. Arnold Treloar.
- 2 p.m.—Description of A. S. League Football Interests.
- During the afternoon, musical items and interstate sporting information will be broadcast from the studio.
- 3.15 p.m. (approx.)—Final scores of all S.A. League Football matches and placed results of racing.

EVENING SESSION.

- 6 p.m.—Chimes.
- 8.15 a.m.—Relay from the Current Garden Reservoir. Dinner music.
- 8.30 p.m.—Bedtime stories.
- 8.35 p.m.—Mons. R. C. Ward and Co.'s Stock Exchange Intelligence. Market reports by Messrs. A. W. Naulford and Co., A. E. Hall and Co., Dalgety and Co., S. A. Farmers' Co-operative Union, Taylor Bros., and the Retail Grocers' Association. General sporting information.
- 8 a.m.—Chimes.
- 8.15 p.m.—Talk by the Rev. J. E. Hale, B.A. Re-lay from the Exhibition building by kind permission of the management a description of the heating and walling installations will be given.
- 9.45 p.m. (approx.) Relay from Glenelg—
—The Mission Dance Band.
10 p.m.—General sporting information.
10.15 p.m. (approx.)—Relay from Glenelg: The Mission Dance Band.

6WF, PERTH.

Saturday.

- 10 noon.—Tune in.
- 12.5 a.m.—Musical programme, including various selections by Miss Evelyn White, A.R.C.M.
- 13.47 p.m.—Market, News and Cable.
- 14 a.m.—Time signal from Perth Observatory.
- 14.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
- 1.2 p.m.—Close down.
- 2.15 p.m.—Tune in.

SPORTING SESSION.

- 2.20 p.m.—Football Results (Quarter-time scores).
- Racing Results.
- 3.30 p.m.—Close down.
- 6.45 p.m.—Tune in.
- 6.50 p.m.—Hazel Perry and Reg. with the Radio Bird, with Birthday greetings.
- 7.10 p.m.—Sports results, by courtesy of "The Mirror" Newspaper Co.
- 7.25 p.m.—Stock and Share Intelligence.
- Market Reports.
- Cable, News by courtesy of "The West Australian" Newspaper Co.
- 7.45 p.m.—Opening ceremony, played by the Grand Symphony Orchestra, conducted by Mr. Val. Smith, relayed from the Grand Theatre, Murray Street.
- 8 a.m.—Time signal from Perth Observatory.
- 8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

MUSIC AND SONG.

- 8.1 p.m.—Musical programme, including Vocal Artists.
- Dance music by Banks' Orchestra, relayed from the Perth Palais Royal, under direction of Mr. E. Banks.
- 10 p.m.—Laird news items, by courtesy of "The Daily News" Newspaper Co.
- Ships which range announcement.
- Weather Report and Forecast.
- Sports results, by courtesy of "The Mirror" Newspaper Co.
- 10.30 p.m.—Close down.

7ZL, HOBART

Saturday.

- MORNING SESSION.—11 a.m. to 12 noon.
- AFTERNOON SESSION.
- 6 p.m.—Broadcast by direct wire from North Hobart Oval. Co-witness description of Football Match. Enthusiastic crowd New Town, by "The Mirror."
- Close down.



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EARLY EVENING SESSION.

6.30 p.m.—"Lucie Piers" half-hour.
7 p.m.—"Huckle Hunter" talk to the children.

NIGHT SESSION.

7.50 p.m.—Musical selection.
7.55 p.m.—Talk by Alderman F. D. Valentine.
Subject, "Tasmania as a Tourist Resort."
7.58 p.m.—"Mercury" special Tasmanian News Service.
Railway Auction Produce Sales.
Weather Information.
Hobart Stock Exchange Quotations.
8 p.m.—G.P.O. Clock Chimes.
8.10 p.m.—Dance numbers by Mrs. Sheppard.
Topic, "Imperial Hotel, Hobart."
Items interspersed from 7XL Studio at the Royal Hotel, Esplanade, Town Hall, Hobart.
8.30 p.m.—British Official Wireless News.
Weather Information, Hobart.
Station announcements.
National Anthem.

Sunday, Sept. 11

2FC, SYDNEY

MORNING SESSION.

10.30 a.m.—Programme announcements.
10.55 a.m.—The Bells of St. Mark's.
11 a.m.—THE MORNING SERVICE from ST. MARK'S, Darling Point.
Preacher, CANON E. HOWARD LEA.
12.15 p.m.—News Session from the Studio.
12.30 p.m.—Close down.

AFTERNOON SESSION.

2 p.m.—"Big Ben" and programme announcements.
2.30 p.m.—From the Studio: De Jarnum's Glee Choir in a programme of general and instrumental items.
(a) "Ave Maria" (Grieg).
(b) "Lorraine" (Jarmun) and Semi-Chorus.
(c) "Ten Harks and Brans" (Heisch Ale).
Ladies' Choir.
Dr. V. G. Jarmun solo, "Largo a Mesto" (Beethoven).
Dr. W. A. Jarmun.
"O When Song is Sweet" (Sano Souri).
Ladies' Choir.
Er. Part Song—"Passing By" (Jarmun).
Mixed Semi-Choir.
6.50 p.m.—The Healy Municipal Band in a programme conducted by Mr. J. Phelanog.
8 p.m.—"Big Ben." Close down.

EVENING SESSION.

8 p.m.—"Big Ben" and programme announcements.
8.10 p.m.—Laurence Macdonald, baritone.
(a) "How say ye winds and waves" (Handel).
(b) "You Lovers' Thing" (Gowald Anderson).
6.10 p.m.—Selwyn Seymour, English elocutionist.
8.25 p.m.—Laurence Macdonald, baritone.
"Purs O' Auldry" (Drumk).

NIGHT SESSION.

8.25 p.m.—Selwyn Seymour, English elocutionist.
8.30 p.m.—From the PITT STREET CONGREGATIONAL CHURCH, SYDNEY. An Organ Recital by Mr. E. J. Robinson.
8.35 p.m.—"Fugue in E Flat" (St. Anne's) (Bach).
8.45 p.m.—"Prayer and Credo Song" (Goulden).
8.48 p.m.—"Biblical Song" (Drumk).
Miss Frances Terry.
8.46 p.m.—"11" (11) "Characteristic Pieces" (Reinberger).
7 p.m.—"Big Ben." The Evening Service from the CONGREGATIONAL CHURCH, PITT STREET, SYDNEY.
Preacher, Rev. T. E. RUTH.
8.20 p.m.—The Masly Municipal Band, conducted by Mr. J. Phelanog.

9.15 p.m.—Alexander Borovnsky, pianoforte

(a) "Etude in E Major" (Chopin).
(b) "Etude—G Sharp Minor" (Chopin).
(c) "Mazurka A Minor" (Chopin).
8.15 p.m.—Captain Frank Harley returns to the Studio for a fresh series of Adventure Talks. The title of his subject this evening, "Come with me to the Isles of Arceady." An hour's "word tour" of the Islands of Torres Straits, and a ramble among the native inhabitants.
Captain Harley will take you with him for a voyage on a native cutter. Buzzing fishing, turtle spearing, collecting beche-de-mer and pearl shell. Upon returning to the village, word pictures will be given of the domestic life of the people, as well as peeps at customs, etc.
Musical effects and native songs will accompany Captain Harley's talk. The tour will conclude with an original composition, the primes being two pictures taken in Torres Straits by Captain Harley during a recent tour.
10.20 p.m.—Alexander Borovnsky, pianoforte solo.
"Andante and Polonaise in E Flat Major" (Chopin).
10.30 p.m.—National Anthem.
Close down.

2BL, SYDNEY

Sunday.

MORNING SESSION.
10.45 p.m.—Special News Service.
11 a.m.—Service, broadcast from St. Jude's Church of England, Randwick.
AFTERNOON SESSION.

2 p.m.—G.P.O. Clock and Chimes.
Children's Services.
2.15 p.m.—H.M.V. Musical Recital.
2.45 p.m.—News Service.
4 p.m.—G.P.O. Clock and Chimes.
9.11 p.m.—Miss Edith Kilminster (soprano solo).
9.11 p.m.—Miss Hilda Walker (soprano).
9.18 p.m.—Mr. Bryce Carter (cello solo).
9.25 p.m.—Miss Edith Younger (contralto).
9.31 p.m.—Miss Madge Holmrich (contralto).
9.40 p.m.—Mr. Harry Leech (bassoon).
9.47 p.m.—Miss Edith Kilminster.
9.55 p.m.—Miss Hilda Walker.
4 p.m.—G.P.O. Clock and Chimes.
4.11 p.m.—Mr. Bryce Carter.
4.18 p.m.—Miss Selma Prener.
4.25 p.m.—Miss Madge Holmrich.
4.35 p.m.—Mr. Harry Leech.
4.40 p.m.—Bible Class, conducted by Mr. W. "Cairo" Bradley.
5.15 p.m.—Close down.

EVENING SESSION.

8.45 p.m.—Children's Session.
7 p.m.—Service, broadcast from Chalmers Presbyterian Church.
8.30 p.m.—From the Studio:
Broadcasters' Trio.
8.40 p.m.—Duet, Miss Amy Ostinga and Mr. Peter Sutherland (bass).
8.44 p.m.—Miss Helena Stewart (soprano).
8.51 p.m.—Mr. Peter Sutherland (bass).
8.58 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
9 p.m.—G.P.O. Clock and Chimes.
9.1 p.m.—Miss Amy Ostinga (contralto).
9.2 p.m.—Miss Daisie Blair (violin solo).
9.16 p.m.—Mr. Lance Jeffrey (tenor).
9.23 p.m.—Broadcasters' Trio.
9.23 p.m.—Duet, Miss Helena Stewart and Mr. Lance Jeffrey.
9.37 p.m.—Mr. Peter Sutherland (bass).
9.44 p.m.—Miss Helena Stewart.
9.51 p.m.—Mr. Lance Jeffrey.
9.54 p.m.—Resume of following day's programme.
10 p.m.—G.P.O. Clock and Chimes.
10.1 p.m.—Miss Amy Ostinga.
10.3 p.m.—Broadcasters' Trio.
10.15 p.m.—National Anthem.

2GB, SYDNEY

Sunday.

10.15 a.m.—Music from St. Alban's Liberal Catholic Church.
10.30 a.m.—Service and Sermon from St. Alban's Liberal Catholic Church.
11 a.m.—Close down.
6.45 p.m.—Music from Studio.
7 p.m.—Lecture from Adyar Hall, Dr. P. K. Hoover.
8.10 p.m.—Instrumental Quartet.
1. "Breeze" (Music from Parrot) (Wagner).
2. "Berenece" (Grieg).
3. "Andante" (Schubert).
8.15 p.m.—Piano Solo by Miss Louise D'Almeida.
8.25 p.m.—Instrumental Quartet.
1. "Träumerei" (Schumann).
2. "Bambasara" (Rachman).
3. "Cacuzza" (Dussek).
8.40 p.m.—Talk.
9 p.m.—Close down.

2UW, SYDNEY

Sunday.

10.30 a.m.—Studio music.
12.27 p.m.—Resume of evening and forthcoming programmes.
12.30 p.m.—Close down.
7 p.m.—Studio music.
8 p.m.—Les Lawes and his "Moomers" Op. 62.
8.30 p.m.—"Golden Duo," steel guitars.
8.45 p.m.—Solos.
8 p.m.—Studio items.
8.15 p.m.—Resume of forthcoming programme.
8.30 p.m.—Close down.

3LO, MELBOURNE.

Sunday.

MORNING SESSION.

10.30 a.m.—Bells from St. Paul's Cathedral.
10.45 a.m.—MORNING SERVICE FROM ST. PAUL'S CATHEDRAL.
15.16 p.m.—Programme, train information.
British official Wireless news from Rugby.
12.50 p.m.—Close down.

AFTERNOON SESSION.

PLEASANT SUNDAY AFTERNOON SERVICE FROM WISLEY CENTRAL MISSION, LONSDALE ST.
THE MISSION ANNIVERSARY.
Chairman: Rev. Dr. S. J. Hoban.
Conductor: Mr. G. M. Williams.
3 p.m.—Hymn No. 1, "All Hail the Power of Jesus' Name."
Prayer, Rev. G. H. GAIN.
Orchestra: (Soloists):
"Lustig" (Reyer Bela).
"Kosmopolis" (Rehner).
"Tenderness" (Aletari).
Hymn No. 106, "Have You Had a Kindness Shown?"
Duet, Madeline and Mr. Gregor Wood.
Orchestra.
MISS MARY ALBERTA.
"Serenata" (Rugie).
"Rest of the Woary" (Day).
Duet, Madeline and Mr. Gregor Wood.
Notice.
Offering.
Orchestra.
ADDRESS: REV. J. ERNEST JAMES, 26, National Anthem.
Beneficial.
Orchestra.
4.30 p.m.—Close down.

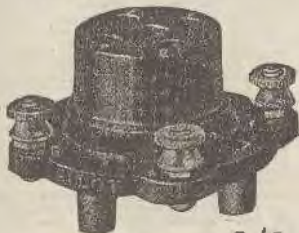


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BAKELITE SHIELDED TRANSFORMER 15/9

EVENING SESSION.

- 8.30 p.m.—Answers to Letters and Birthday Greetings by "BILLY HUNNY."
 9 p.m.—Hymns and Music by "THE PIED PIPERS."
 9.30 p.m.—"BROTHER BILL,"
 "Looking Through the Wrong End of the Telescope."
 9.45 p.m.—Bells from St. Paul's.

NIGHT SESSION.

EVENING SERVICE FROM WESLEY

- CHURCH, LONSDALE STREET.
 Preacher, REV. G. IRVING BENSON.
 Organist, MR. WILLIAM G. JAMES.
 Introit, "The Lord is in His Holy Temple."
 Prayer, "The Omer Grain."
 Hymn, "Yes, God is good, in earth and sky."

- Prayer, The Inner Court.
 Antiphon.
 Scripture Reading.
 Intimations.
 Offering.
 Anthem.
 Hymn, "Crown Him with Many Crowns."
 MONTHLY BOOK SERMON, REV. G. IRVING BENSON.
 Hymn, "Now the Day is Over."
 Benediction.
 Benedicite.
 Benedicite.
 FROM THE STUDIO—

- 8.30 p.m.—MR. J. HOWLETT ROSS will say a few words about "Arlohu" (Kowbell).

- 8.45 p.m.—ST. VINCENT DE PAUL'S (OPIPLANAGS BAND):
 "Four Indian Love Lyrics."

- 9.00 p.m.—EILEEN STARR, soprano:
 "Chorale of Venice" (Arditi) flute obligato by A. Gardiner.

- 9.15 p.m.—MELBOURNE STRING QUARTET:
 "Quart. in E Major" (first movement) ("Misan").

- "Serenade" (Rudyn).
 9.30 p.m.—ST. VINCENT DE PAUL'S (OPIPLANAGS BAND):
 Occasional, "Tanzed."

- 9.45 p.m.—EILEEN STARR, soprano:
 "Lieder" (Brahms).
 "Lieder" (Schubert).

- 9.59 p.m.—MELBOURNE STRING QUARTET:
 "Cantabile" (Tschakowsky).
 "Romant. Musikal." (Rohsbert).

- 9.55 p.m.—"Argus" news service. Announcements.

- THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY is for EVERYBODY:
 "Everlasting watchfulness is the price of safety. Think of the lives lost at home before taking a chance."

- 9.57 p.m.—ST. VINCENT DE PAUL'S (OPIPLANAGS BAND):
 Fantasia, "Happy Days in Dixie."

- 9.59 p.m.—GOLD GREAT THOUGHT:
 "—Would have you be like a fire well kindled, which catches at everything you turned in, and turns it into flame and brightness."

- 10 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Sunday.

MORNING SESSION

- ALL SAINTS' CHURCH OF ENGLAND.
 The complete Morning Service will be relayed from All Saints' Church of England, FROM ALL SAINTS' CHURCH.
 11 a.m.—Church Service.
 12.30 p.m.—Close down.

AFTERNOON SESSION.

THE FEDERAL BAND

- The Concert by the Brisbane Federal Band (conductor, Mr. W. H. Davis, will be relayed from the Botanic Gardens.
 2.15 p.m.—Band Concert.
 4.30 p.m.—Close down.

NIGHT SESSION.

- ALL SAINTS' CHURCH OF ENGLAND.
 The complete Evening Service will be relayed from All Saints' Church of England.
 7.30 p.m.—Church service.
 8.30 p.m.—Conclusion.

BAND CONCERT

- At the conclusion of the Church Service the Concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.
 8.00 p.m.—Close down.

6WF, PERTH.

Sunday.

- 10.45 a.m.—Tune in.
 11 a.m.—Morning Service, relayed from the Salvation Army Citadel, Pier Street, Perth.
 12.15 p.m.—Close down.
 2.15 p.m.—Tune in.

A RELAY.

- 2 p.m.—Community Singing, relayed from Queen's Hall, Williams Street, Perth.
 4.30 p.m.—Close down.
 7 p.m.—Tune in.
 7.30 p.m.—Children's Belltime Service.
 7.50 p.m.—Evening Service, relayed from the Trinity Congregational Church, St. George's Terrace, Perth.

AFTER CHURCH SERVICE.

- 8.45 p.m.—Community Singing, relayed from Queen's Hall, William Street, Perth.
 10 p.m.—Close down.

7ZL, HOBART

Sunday.

MORNING SESSION.

- 11 a.m.—Church Service from Memorial Church, Hobart.
 Preacher, Rev. Arthur C. Nelson.
 At conclusion of Church Service, Book Express information.
 Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Pleasant Sunday Afternoon Concert from the Studio, under the direction of Mrs. H. Bailey, L.A.S.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6.30-7 p.m.—Children's Orator, by the "Sunday Lady."

NIGHT SESSION.

- 7 p.m.—Church Service from St. David's Cathedral, Hobart.
 At conclusion of Church Service, Concert from the Studio:
 Miss Jack Green (soprano).
 Miss Joan Dodge (soprano).
 Miss Ruby Preece (pianist).
 Miss Evelyn Miller (violinist).
 Mrs. Edward Bailey, L.A.S. (contralto).
 Mr. Donald Webb (comedian).
 9.40 p.m.—"The Mercury" special interests News Service.
 British Official Wireless News.
 Ships sailing wireless news.
 Station announcements.
 National Anthem.

Monday, Sept. 12
2FC, SYDNEY.

EARLY MORNING SESSION.

7.0 a.m. to 8.0 a.m.

MORNING SESSION.

- 10.0 a.m.—"Big Ben" and Announcements.
 10.5 a.m.—Studio Music.
 10.55 a.m.—"Sydney Morning Herald" News Service.
 10.59 a.m.—Studio Music.
 10.55 a.m.—Last Minute Sporting Information by the JFC Racing Commissioner.
 10.45 a.m.—Studio Music.
 11.0 a.m.—"Yes Sir"; Marching Music for School Children.
 11.0 a.m.—A.F.A. and Reuter's Cables.
 11.05 a.m.—A Reading.
 11.10 a.m.—Close Down.

MIDDAY SESSION.

- 12.0 noon—"Big Ben" and Announcements.
 12.2 p.m.—Stock Exchange, first call.
 12.3 p.m.—Weather Forecast, Rainfall.
 12.3 p.m.—Studio Music.
 12.30 p.m.—Summary of "Sydney Morning Herald" News Service.
 12.35 p.m.—Rough Wireless News.
 12.40 p.m.—Marching Music for School Children.
 12.40 p.m.—Margaret Grimshaw, Soprano:
 "A Song Remembered" (Cantata) call.
 12.45 p.m.—The Oak Hall Instrumental Trio.
 12.50 p.m.—Studio Music.
 1.0 p.m.—"Big Ben"; Weather Intelligence.
 1.2 p.m.—"Evening News"; Midday News Service; Producers' Distributing Society's Report.
 1.25 p.m.—The Oak Hall Instrumental Trio.
 1.30 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching Music for School Children.
 1.40 p.m.—Margaret Grimshaw, Soprano:
 "The Lass With the Delicate Air" (Aria).
 1.45 p.m.—Studio Music.
 1.50 p.m.—The Oak Hall Instrumental Trio.
 1.55 p.m.—"Big Ben"; Close Down.

AFTERNOON SESSION.

- 3.0 p.m.—"Big Ben" and Announcements.
 3.5 p.m.—Kathleen Horne, Soprano:
 "I Dreamed As Your Window" (Aria).
 3.5 p.m.—Studio Music.
 3.55 p.m.—Hilda Nelson, Mezzo Soprano.
 3.58 p.m.—Studio Music.
 3.58 p.m.—Valera Chesall, Soprano.
 4.00 p.m.—Marching Music for School Children.
 4.05 p.m.—Muriel Wall, Contralto:
 "If I Build a Better You" (Lehmann).
 4.10 p.m.—A Talk by a Representative of the Country Women's Association.
 4.10 p.m.—"Big Ben"; May Craven, Mezzo:
 "The Maiden Prayer" (Parley).
 4.15 p.m.—The Oak Hall Instrumental Trio.
 4.15 p.m.—Kathleen Horne, Soprano:
 "Time's Boon" (Garry).
 4.15 p.m.—Studio Music.
 4.25 p.m.—Muriel Wall, Contralto:
 "Keep on Hooping" (Maxwell).
 4.25 p.m.—Studio Music.
 4.30 p.m.—The Oak Hall Instrumental Trio.
 4.32 p.m.—Hilda Nelson, Mezzo Soprano.
 4.45 p.m.—Stock Exchange, third call.
 4.45 p.m.—Valera Chesall, Soprano.
 4.45 p.m.—"Big Ben"; Close Down.
 4.45 p.m.—KARLY EVENING SESSION.
 5.00 p.m.—Programme Announcements and the Chimes of JFC.
 5.45 p.m.—The "Hello Man" Talks to the Children.
 6.01 p.m.—A Story for the Children, told by Mr. J. R. Kingborne.
 6.05 p.m.—Dinner Music.
 6.45 p.m.—L.A.S. Sporting News.
 6.50 p.m.—Dalgety's Market Reports (Wool, Wheat and Stock).
 6.54 p.m.—Fruit and Vegetable Markets.
 6.57 p.m.—Shipping and Weather Intelligence.
 7.1 p.m.—"Evening News" Last News Service.

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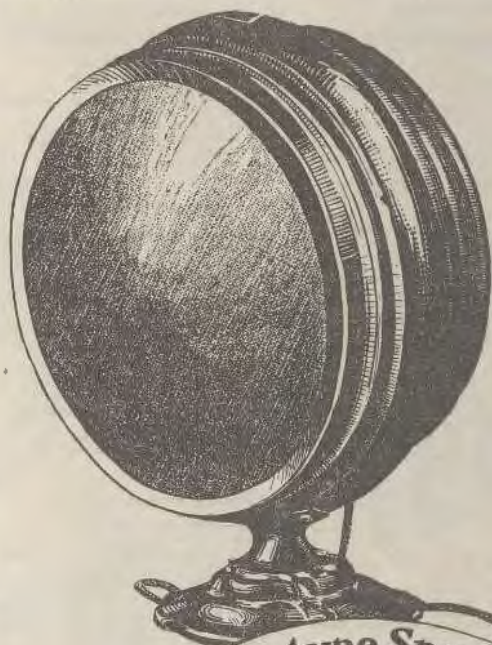
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NIGHT SESSION.

- 7.15 p.m.—From the Sydney Town Hall: The Fifteenth Annual Meeting of the Royal Shipwreck Relief and Humane Society of New South Wales. Conducted by De Orosco's Vice-Royal Band. Conducted by Mr. James A. AFCCA.
- (a) Selection: "The Millard" (Sullivan).
- (b) Value Lute, "In a Little Spanish Town" (Warne).
- (c) March, "The Great Conquest" (Woodie).
- 7.40 p.m.—The N.S.W. Fire Brigade Band. Conducted by Mr. James Phelan.
- (a) March, "Jack O' Lantern" (Rimmer).
- (b) Excerpts from "Bost" (Arr. Greenwood).
- 8.6 p.m.—"Big Ben" From Beale's Concert Saloon: The first of a series of Two-Plane-Sorts Recitals given by Frank Hutchens and Lindley Evans.
- 8.20 p.m.—From the Sydney Town Hall: Further items from the Annual Meeting of the Royal Shipwreck Relief and Humane Society of N.S.W. including songs by Reginald Gould and Choral Numbers by the Welsh Choral Society, and items by the N.S.W. Fire Brigade Band.
- 9.0 p.m.—"Big Ben": Latest Weather Forecast.
- 9.1 p.m.—From Beale's Concert Saloon: Items at the Two-Plane-Sort Recital by Frank Hutchens and Lindley Evans.
- 9.30 p.m.—From the Sydney Town Hall: Items at the 30th Annual Meeting of the Royal Shipwreck Relief and Humane Society of N.S.W.
- 9.45 p.m.—A Talk by Mr. G. J. Lockley on the North Road Bridge.
- 9.55 p.m.—Perry McKay, Saxo:
- (a) "A Fragment of the Line" (Squire).
- (b) "Nepitine" (Gordon).
- 10.25 p.m.—The Wentworth Symphonic Dance Orchestra under the baton of Cyril Kaye.
- 10.32 p.m.—Wally Baynes, Comedian.
- 10.42 p.m.—The Wentworth Symphonic Dance Orchestra.
- 10.44 p.m.—Wally Baynes, Comedian.
- 10.48 p.m.—The Wentworth Symphonic Dance Orchestra.
- 10.57 p.m.—Late News and Announcements.
- 11.0 p.m.—"Big Ben": The Wentworth Symphonic Dance Orchestra, will play until 11.30 p.m.
- 11.30 p.m.—National Anthem, Close Down.

2BL, SYDNEY

Monday.

EARLY MORNING SESSION—7 to 9 a.m.

MORNING SESSION.

- 10.35 a.m.—G.P.O. Clock and Chimes.
- Musical programme from Studio.
- 10.40 a.m.—News from the "Daily Telegraph Pictorial".
- 10.45 a.m.—Musical programme from the Studio.
- 11 a.m.—G.P.O. Clock and Chimes. Announcements.
- 11.15 a.m.—Talk on "Tennis" by Miss Gwen Varray. Broadcasters' Women's Sports Association.
- (Social Notes: Replies to correspondents, by Mrs. Jordan.)
- 11.20 a.m.—"Pickles" by Mrs. Jordan.
- 12 noon.—G.P.O. Clock and Chimes.
- Special Ocean Forecast and Weather Report.
- 12.25 p.m.—Brunswick Panopticon Musical Recital.
- 12.31 p.m.—Information: Mails, Shipping, and Post Directory.
- 12.32 p.m.—Hints to call by wireless.
- 12.32 p.m.—Vegetable Market Report.
- 12.31 p.m.—London Metal Market Report.

- 12.38 p.m.—Dairy and Farm Produce Market Report.
- 12.40 p.m.—G.P.O. Clock and Chimes. Foreign Market Report.
- 12.42 p.m.—Fish Market Report.
- 12.44 p.m.—Habitat Market Report.
- 12.48 p.m.—News from the "Sun".
- 12.45 p.m.—Hillier's Instrumental Quartette: direction, Carl Castling.
- 1.25 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".
- 2 p.m.—G.P.O. Clock and Chimes.
- Musical programme from the Studio.
- 3.10 p.m.—News from the "Sun".
- 3.20 p.m.—Musical programme from the Studio.
- 3.30 p.m.—News from the "Sun".
- 3.40 p.m.—Dunwoody James Band, broadcast from the Danvers Cabaret.
- 4 p.m.—G.P.O. Clock and Chimes. News from the "Sun".
- 4.15 p.m.—Serial Story.
- 4.25 p.m.—Dunwoody James Band.
- 4.30 p.m.—News from the "Sun".
- 4.55 p.m.—Resume of night's programme.
- 4.57 p.m.—Racing Results.
- 4.58 p.m.—Special Ocean Forecast.
- 5 p.m.—G.P.O. Clock and Chimes. Close down.

EARLY EVENING SESSION.

- 8.45 p.m.—G.P.O. Clock and Chimes. Children's Braises.
- 8.50 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7 a.m.—G.P.O. Clock and Chimes. Australian Mercantile, Land and Finance Co.'s Report.
- Weather Report and Forecast, by courtesy of Govt. Meteorologist.
- Producers' Distributing Society's Fruit and Vegetable Market Report.
- Stock Exchange Reports.
- Gasin and Fodder Report ("Sun").
- Dairy Produce Report ("Sun").
- 7.15 p.m.—Country News from the "Sun".
- 7.30 p.m.—Talk on "How to Maintain Your Health," by Dr. Du Maurier.
- 7.40 p.m.—Talk on "The Motor Car," by Mr. Martin.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes. Broadcasters' Topical Chorus. An Hour's Programme, presented by Ladies' Club's Wives.
- 8.5 p.m.—The Periphery Radio Band.
- 8.10 p.m.—Miss Buntly Stuart (contralto).
- 8.17 p.m.—Comedy Sketch, by May Nancarrow and William Cullins.
- 8.25 p.m.—The Newtown Band, broadcast from Industrial Hall, Newtown.
- 8.45 p.m.—Stoffel Beuidenhout (baritone).
- 8.52 p.m.—Mr. Tommy Clyde (bass and comedian).
- 9 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
- 9.3 p.m.—Cec Morrison and his Glomshouses, broadcast from the Ballroom of the Bondi Casino.
- 9.15 p.m.—roadcasters' All Sports Expert will talk on General Sporting.
- 9.20 p.m.—Mr. William Green (soprano).
- 9.25 p.m.—The Newtown Band.
- 9.45 p.m.—Miss Nathalie Muir (soprano).
- 10.0 p.m.—Cec Morrison and his Glomshouses, broadcast from the Ballroom of the Bondi Casino.
- 10.15 p.m.—Mr. William Green.

- 10.15 p.m.—Cec Morrison and his Glomshouses, broadcast from the Ballroom of the Bondi Casino.
- 10.20 p.m.—Resume of following day's programme.
- 10.35 p.m.—Cec Morrison and his Glomshouses, broadcast from the Ballroom of the Bondi Casino.
- 10.42 p.m.—Miss Nathalie Muir.
- 10.50 p.m.—Cec Morrison and his Glomshouses, broadcast from the Ballroom of the Bondi Casino.
- 11 p.m.—G.P.O. Clock and Chimes. National Anthem.

2GB, SYDNEY

Monday.

MORNING SESSION.

9 a.m. to 10 a.m.

AFTERNOON SESSION.

- 3.30 p.m.—Music.
- 3.37 p.m.—Address.
- 3.52 p.m.—Music.
- 4.7 p.m.—Address.
- 4.52 p.m.—Music.
- 4.50 p.m.—Class down.
- 7 p.m.—Music.
- 7.5 p.m.—Listeners League.
- 7.15 p.m.—Music.
- 7.20 p.m.—Address.
- 7.50 p.m.—Music.
- 7.55 p.m.—Mr. J. K. Powell.
- 7.50 p.m.—Announcement.
- 1.45 p.m.—Diets for two violins with piano accompaniment. Dan Seely, Monica Norde, Ada Brook.
- 2 "Romance" (Eria).
- 2 "Meredith d'Amour" (Van Horn).
- 8.5 p.m.—Address by Professor Ernest Wood.
- 8.20 p.m.—Songs by Miss Kathleen Ryan.
- 8.25 p.m.—Piano Solo, Miss Emily Burge.
- 8.40 p.m.—Instrumental Quartet. Dan Seely, Monica Norde, Marjorie Lang, Ada Brook.
- 8 p.m.—Address by Rev. R. B. S. Hammond, "Mending Broken Men".
- 9.15 p.m.—Songs by Miss Kathleen Ryan.
- 9.25 p.m.—Violin Solo by Dan Seely.
- 1 "Andante from Concerto" (Lalo).
- 2 "Soprano Canto" (Dvorak).
- 9.31 p.m.—Musical Monologues, J. K. Powell.
- 9.40 p.m.—Diets for two violins with piano accompaniment. Dan Seely, Ada Brook, Monica Norde.
- 9.50 p.m.—Talk.
- 10 p.m.—Class down.

2UW, SYDNEY

Monday.

- 8 p.m.—News, Shipping, mails, musical items.
- 9.45 a.m.—Auntie Mo's Talk to Women.
- 8.55 a.m.—Resume of week's programme.
- 10 a.m.—Close down.
- 9 p.m.—Studio News.
- 2.55 p.m.—Resume of evening programme.
- 8 a.m.—Close down.
- 6 p.m.—Studio News.
- 6.55 p.m.—Resume of evening programme.
- 6 p.m.—Close down.
- 7 p.m.—Where to go.
- 7.30 p.m.—Musical Items.
- 8 p.m.—Natural History Talk, No. 4: "Early Plant Life," by George Mansel.
- 8.20 p.m.—Musical items.
- 9.25 p.m.—Resume of week's programme.
- 9.35 p.m.—Close down.



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DEALERS NOTE!

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3LO, MELBOURNE.

Monday

MIDDAY SESSION.

11.30 a.m.—This signal British Official Wireless News from Rugby. Becker's and the Australian Press Association cables. Argus news service.

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

12.50 p.m.—WALTER CHAMPEY, assisted by ELLEN GILBERT—
Song: "I Do Love My Little Bedroom House."

Duet, "Pretty Girl" (from "The Cuckoo").

12.40 p.m.—Stock Exchange Information

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

12.55 p.m.—JAMES RILEY, tenor—
"Tears" (Dexter Washburn).

A Song of Romance (Hull).

1 p.m.—TIMES SIGNAL.

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

1.30 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales.

1.45 p.m.—River reports. Rainfall for Victoria, Tasmania, South Australia and New South Wales.

1.55 p.m.—ERIN TROTMAN, humorist:—
"Monday afternoon on the Terra Bank," with effects.

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

2.25 p.m.—ROY GALLOWAY, baritone:—
"Son of Mine" (Wallace).

"When You are Lonely" (Crompton).

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

2.55 p.m.—WENDLING AND MOLLOY, Entertainers:—
Madrigal, "Mad Songs," arranged by Wendling.

"Under the Ukulele Tree" (Henderson).

3 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—STUDIO QUARTET:—
"Irish Air" (Modellato).

3.15 p.m.—MRS. DOROTHY BILE:—
"Homestead."

3.30 p.m.—RICHARD BRADLEY, violin:—
"Old Irish Airs."

3.45 p.m.—ERN TROTMAN, humorist:—
"Casey and His Gang of Irish Laborers."

4.00 p.m.—STATION PRIO:—
"Landscape Air" (Krieger).

4.15 p.m.—JAMES RILEY, tenor:—
"Fifteen Minutes" (Thomas).

Several Old Scotch Songs" (Molloy).

4.30 p.m.—AGNES FORTUNE, piano, and DOROTHY MOXBURGH, viola:—
"Old Irish Airs" (Thomas).

4.45 p.m.—HELVY HAYDEN, comedienne:—
"As Long as He Loves Me."

"Operatic Business."

4.55 p.m.—WENDLING AND MOLLOY, Entertainers:—
"Bridges of Spain."

"Rose of Old Kibarra."

5.10 p.m.—STUDIO QUARTET:—
"Goddie Suite."

5.25 p.m.—MRS. FLORA PELL, Inspector of Schools:—
Domestic Economy.

5.45 p.m.—Herald news service, Stock Exchange Information.

6 p.m.—Close down.

EVENING SESSION.

8.30 p.m.—Proceedings of the Programme for Lewana at Sandhurst Park on Wednesday.

8.55 p.m.—Answers to letters and birthday greetings by "LITTLE MISS KOOKABURRA."

9.15 p.m.—MAY ALBERTA will sing:—
"Some Welsh Folk Songs."

9.30 p.m.—"LITTLE MISS KOOKABURRA" will tell the children a story.

9.45 p.m.—MAY ALBERTA will sing:—
"Some Welsh Folk Songs."

9.55 p.m.—Official reports of Newmarket and also by the Associated Dash and Sling Agents. Results of races. Number of absent and extra drawn for each race.

8.45 p.m.—Herald news service. Weather synopsis. Shipping movements.

8.52 p.m.—Stock Exchange information.

8.57 p.m.—River reports.

8.59 p.m.—Fish market reports by J. D. Barrett Ltd.

9.00 p.m.—Market reports by the Victorian Producers' Co-operative Co. Ltd. Duality, grain, hay, straw, oats, and produce, potatoes and onions. Market reports of fruit by the Victorian Fruitgrowers' Association.

NIGHT SESSION.

9.15 p.m.—Under the auspices of the DEVELOP AUSTRALIA LEAGUE, MR. H. O. PETERSON will speak on:—
"Working Round the World."

9.30 p.m.—MR. F. A. H. TAYLOR will speak to youthful Optimists on:—
"School Life and School Sports."

9.45 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MR. J. M. WARD, Superintendent of Horticulture, will instruct vocally of Pomona on:—
"The Creation of Fruit Trees."

9.55 p.m.—DONALD MORRAT, violin Recital:—
"Indian Lament" (Dwyak-Krieger).

"The Belle" (Hendel-Geisler).

"Hurdy-gurdy" (Ter Auloy).

10.05 p.m.—Something of interest for Lovers of Australian Literature.

10.15 p.m.—"THE MERRY WIDOW." Adapted from the German of VICTOR LEIN AND LEO STEIN.

Lyrics by ADRIAN BOSS.

Made by ELIAN LEHAR.

Character:—
Vivacious Camille de Valdois.

HOLLAND WHITE.

Marquis de Candia.

JOHN MILLER.

M. de St. Brice.

JOHN DONOVAN.

General Nevkovich (Military Attache),
Nick (Manager of the Legation).

MAURICE DUBOIS.

M. de Madia (Consular Legation).

CHARLES HOSKING.

Prince Diana (Secretary of Legation).

RICH HIXMILL.

Baron Poppe (Munich Ambassador in Paris).

ALFRED ANDREW.

writer of Madia's.

FRED DREW.

Natalie (Wife of Poppe).

EDITH HUBBAM.

Gina (Wife of Moxakovich).

JRAN KELLY.

Sydney (Wife of Khady).

IVY CARLYLE.

Pravoslav (Sister of Madia's).

MABEL GRIPPIN.

Sonia (The Merry Widow).

RAFFA BRAY.

SYNOPSIS OF SCENES.

Act 1.—The Marquisian Embassy in Paris.

Act 2.—Ground of Sonia's Home near Paris.

Act 3.—Madia's Restaurant, Paris.

Produced for broadcasting purposes by ALFRED ANDREW.

Chorus of 40 voices from the MELLIGOURNE THEATRE UNION, and orchestra, under the direction of WILLIAM G. JAMES.

MUSICAL NUMBERS.

ACT I.

Opening Chorus (Now, ladies and gentlemen).

Hall Music.

Duet (Natalie and Camille). A Dainty Wife: (We are close, there's no one here).

Entrance Song (Sonia and Chorus).

"In Macerona."

(Gemma, solo, I pray) We cannot fear our- selves when I pray.

Song (Madia). "Maxine's."

(My Fatherland, it is for thee).

Finale (Ladies' choice, that is the universal voice).

ACT II.

Opening Chorus and Song.

If I did love you here for a minute.

Open (Sonia). "Viva."

(There was once a Villa, a witch of the wood).

Duet (Sonia and Camille). "The Cavalier." (Halls, ladies! See the side).

March-Septet, "Women."

(Oh, the women! Oh, the women!) Duet (Sonia and Camille).

Quintet (Natalie and Camille, and (Oh, say no more!))

Quintet (Camille). "Love in My Heart." (Love in my heart a-wa-a-wa-wa.)

Finale (Halls) Let Lal! Well, gentlemen, what is your will?

Opening Scene. ACT III.

Cafe Walk.

Hall Music.

Requiescens.

Viola Duet (Sonia and Camille).

"I Love You So" (Though I say out what I may not let you hear).

Finale (You may stay her ways as you can).

10.15 p.m.—ROY GALLOWAY and BEVELY HAYDEN.

10.20 p.m.—Lecture (if attempted).

"Impossibilities."

10.25 p.m.—Argus news service. Announcements. Meteorological information.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY is safe—MOTORISTS! The car is safe in the hands of a careful man. The careless man will meet with an accident even in the safest machine.

11 p.m.—DR. GRIFFITH THOMPTON.

"Childish, imbecile credulity is enough to render any man poor, without the aid of a single penny more." Francis Bacon.

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

11.40 p.m.—GOD HAVE THE RING.

4QG, BRISBANE.

Monday.

MIDDAY SESSION—1 to 2 p.m.

1.00 p.m.—Afternoon tea music played by Hotel Carlton Symphony Orchestra.

1.15 p.m.—News service, supplied by "The Telegraph."

1.30 p.m.—Close down.

EVENING SESSION.

8 p.m.—News service, supplied by "The Daily Standard."

8.15 p.m.—Lecturer: "The World Call—India" by Denis Hays.

8.30 p.m.—The Children's Session:—
Stories by "The Standard."

8.45 p.m.—Special reports, stock reports; special news service.

8.50 p.m.—Weather news; announcements.

9.00 p.m.—Lecturer: "The Children's Music Corner," conducted by "The Music Man."

NIGHT SESSION.

To-night's programme has been arranged by Mr. Erick Johns, and will be provided by his own and other artists.

FROM THE STUDIO.

PART I—OPERATIC.

8 p.m.—Double quartet, "Ritual Chorus" (from Weber's opera, "Die Freischuetzer").

"The Head Ranger"; vocal duet, "Hallelujah in the Lively Manner" (from Handel's opera "Solmi").

Mr. Jack Lind (singer), baritone solo, "Fragrant" (from Lomax's opera, "Le Paganini").

"The Chorus"; Mr. Ben Clifton, double quartet, "Mistaken" (from Donizetti's opera, "The Daughter of the Regiment"); vocal trio, "Ah! Love The Only"

(from Gounod's opera, "Faust"); Miss Thekla Charnock (soprano) and Mr. Eric Williams (tenor); double quartet, "My Thou Song" (from "The Barber of Seville")

and "Gloria" (from Anko's opera, "La Barcarole Catalana").

"Holla Sapphoras" (soprano solo, "Adrift" (from Puccini's opera, "La Boheme").

"The Bohemians"; Miss Grace Harbord; vocal duet, "Till Fair Time" (from "Hansel and Gretel").

Opera "Aladdin"; Mr. George Williamson



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GRANVILLE, N.S.W.

(Leber) and Mr. Ben Chlase (baritone); contralto solo, "Fair Spring is Returning"; (Fritz Kahn-Sachs) opera "Hansom and Diehik"; Miss Mildred Bell; double quartet, "See How Lightly on the Blue Sea" (from Donizetti's opera "Lucia di Borgoa").

9 p.m.—Metropolitan weather forecast.

PART II—ONE-ACT PLAY.

One-Act Play entitled "The Master Speaks" being an imaginary episode in the life of Beethoven, by Michael Crozer. Specially written for radio transmission. Production arranged by Michael Crozer.

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

Close down.

6WF, PERTH.

Monday,

12.30 p.m.—Tune in.
12.35 p.m.—Market, News, and Cables.
1 p.m.—Tune signal from Perth Observatory.
1.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Quintette.
2 p.m.—Close down.
3 p.m.—Tune in.
3.30 p.m.—Musical programme, including pianoforte selections by Miss Evelyn Willis, A.R.C.M.
Organ selection, relayed from the Grand Theatre, Murray Street.
4 p.m.—Studio Instrumental Trio.
4.30 p.m.—Close down.
6.45 p.m.—Tune in.
6.55 p.m.—Stories for the kiddies, by Annie Marjorie and Ureia Duffy.
7.30 p.m.—Stock and Share Intelligence, Market Reports.
Cables, News by courtesy of "The West Australian" Newspaper Co.
7.45 p.m.—Talk by Lieut.-Col. Le Somel, Director of the Zoological Gardens, South Perth.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

CONCERT NIGHT.

8.3 p.m.—Musical programme, including Vocal and Instrumental Artists.
Orchestral music, by the Grand Symphony Orchestra, relayed from the Grand Theatre, Murray Street.
10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Co.
Chips within range announcement.
Weather Report and Forecast.
10.30 p.m.—Close down.

7ZL, HOBART

Monday,

MORNING SESSION—11 a.m. to 12 noon.

AFTERNOON SESSION.

8 p.m.—G.P.O. Clock Chimes.
8.1 p.m.—Tune in selection.
8.5 p.m.—Hobart Stock Exchange Quotations.
Weather information.
Items of interest.—Announcements.
8.15 p.m.—Orchestral selections, by 7ZL Orchestra.
8.45 p.m.—Fashion Talk, by "Aunt Edna," of Brownell, Ltd., Hobart.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Children's Concert: "Uncle Peter's" half-hour.
7 p.m.—"Uncle Peter's" talks to the Children.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.50 p.m.—Physical Culture Talk, by Lieutenant Reginald Mackintosh.

7.50 p.m.—"Mercury" Special Tasmanian News.
8.15 p.m.—G.P.O. Clock Chimes.
Railway Auction Produce Sales.
Weather forecasts.
Hobart Stock Exchange Quotations.
8.2 p.m.—G.P.O. Clock Chimes.
8.1 p.m.—Concert from the Studio.
8.50 p.m.—"Mercury" special Interstate News Service.
Tasmanian District Weather Reports.
5 p.m. Weather forecasts.
Station announcements.
National Anthem.

Tuesday, Sept. 13

2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.15 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A talk by the D.P.C. Raising Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Marching music for school children.
11.5 a.m.—A.P.A. and Reader's Cables.
12.10 a.m.—Studio music.
12.15 a.m.—A talk on home cooking and recipes, Mrs Ruth Funn.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
12.15 p.m.—Stock Exchange, first call.
12.5 p.m.—National weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service. Rugby wireless news.
12.35 p.m.—Studio music.
12.35 p.m.—Marching music for school children.
12.40 p.m.—Daniel Hardy, baritone.
12.45 p.m.—"The Garter" (Standard).
12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
12.55 p.m.—Studio music.
1 p.m.—"Big Ben." Weather Intelligence.
1.15 p.m.—"Evening News" midday news service.
1.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
1.25 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Daniel Hardy, baritone: "Vagabond" (Irish).
1.45 p.m.—Studio music.
1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

4 p.m.—"Big Ben" and announcements.
4.10 p.m.—THE LYCEUM THEATRE ORCHESTRA.
4.15 p.m.—INA THORNTON, comedienne.
4.18 p.m.—THE LYCEUM THEATRE ORCHESTRA.
4.27 p.m.—FRANK ADAMS, baritone: "Thinking" (Morgan).
4.30 p.m.—Marching Music for School Children.
4.40 p.m.—Florence Grant, Soprano: "A Pastoral" (Wilson).
4.45 p.m.—A Talk by a Representative of the Country Women's Association.
4.50 p.m.—"The Bell," Jeannette Romney, Contralto: "Far Across the Desert Sands" (Fisher).
4.5 p.m.—The Lyceum Theatre Orchestra.
4.15 p.m.—Ina Thornton, Comedienne.
4.10 p.m.—Florence Grant, Soprano: "I Hope" (Jones).

4.25 p.m.—The Lyceum Theatre Orchestra.
4.30 p.m.—The Oak Hall Instrumental Trio.
4.35 p.m.—Frank Adams, Baritone: "Because I Love You" (Berlin).
4.40 p.m.—Jeannette Romney, Contralto.
4.43 p.m.—Stock Exchange, third call.
4.47 p.m.—Hobart Music.
4.50 p.m.—The Wentworth Symphony Dance Orchestra, under the baton of Cyril Kaze.
4.55 p.m.—"Big Ben." Close Down.

EARLY EVENING SESSION.

6.40 p.m.—The Chimes of 2FC.
6.45 p.m.—"The 'Hello Mac'" Talks to the Children.
6.50 p.m.—Story Time for the Young Folk.
6.40 p.m.—Dinner Music.
7.0 p.m.—"Big Ben." Close Down.
7.10 p.m.—Daltry's Market Reports (Wool, Wheat and Stock).
7.18 p.m.—Fruit and Vegetable Markets.
7.20 p.m.—Weather and Shipping News.
7.23 p.m.—Late "Evening News" News Service.

NIGHT SESSION.

7.30 p.m.—Programme Announcements.
7.33 p.m.—A Talk to be given by one of the Professional Staff of the Sydney University.
7.45 p.m.—Alfred Cunningham, Baritone: "To Alberta from Eric" (Keel).
7.50 p.m.—Tom Foggitt, Novelty Pianist.
7.55 p.m.—Vera Tasma, Soprano:
(a) "The Child and the Twilight" (Parry).
7.4 p.m.—A Short Talk on "Authors' Week."
7.8 p.m.—From the West Wyalung School of Arts, the Police Speech by the Leader of the State Country Party, Mr. E. A. Buttenschue.
9.40 p.m.—From the Studio: Alfred Cunningham, Baritone:
(a) "Dear Me, Ye Winds and Waves" (Handel).
(b) "The Song of the Cuck" (Bachell).
9.53 p.m.—Tom Foggitt, Novelty Pianist.
9.57 p.m.—Eden and Jack Landryou, Entertainers:
(a) "Oh, Knows It."
(b) "Ginkum Amie Blues" (Medley).
10.3 p.m.—Vera Tasma, Soprano.
(a) "When Balala Pled" (Arnel), (Old English).
(b) "Irish Folk Song" (Trot). (Request.)
10.10 p.m.—Hal Vane's Orchestra, in Popular Numbers.
10.18 p.m.—Alfred Cunningham, Baritone:
(a) "Beloved, It Is Yours" (White).
(b) "The Old Gray Fox" (Aylward).
10.25 p.m.—Tom Foggitt, Novelty Pianist.
10.29 p.m.—Hal Vane's Orchestra.
10.39 p.m.—Eden and Jack Landryou, Entertainers:
(a) "Masonella Wimin and Feminine Men" (Morgan).
(b) "Are Ye Gonna Be Home To-night" (Request).
10.40 p.m.—Hal Vane's Orchestra.
10.52 p.m.—Leo Maurice, Baritone.
10.57 p.m.—Late News and Announcements.
11.0 p.m.—"Big Ben." Eden and Jack Landryou, Entertainers:
(a) "Vane's Orchestra."
(b) "Piano and Banjo Solos."
11.5 p.m.—Hal Vane's Orchestra.
11.17 p.m.—Leo Maurice, Popular Baritone.
11.20 p.m.—Hal Vane's Orchestra.
11.30 p.m.—National Anthem; Close Down.

2BL, SYDNEY.

Tuesday,

EARLY MORNING SESSION—7 to 8 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and Chimes.
Musical programme from Studio.
10.40 a.m.—News from the "Daily Telegraph Fictorial."
10.50 a.m.—Musical programme from the Studio.
11 a.m.—G.P.O. Clock and Chimes.
Announcements.
11.5 a.m.—Musical programme from the Studio.
11.15 a.m.—Studio Voice. Replies to correspondents.
Talk on "The Importance of Correct Posture" by Mr. Adams.



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- 12 noon.—G.P.O. Clock and Chimes.
Special General Forecast and Weather Report.
12.15 p.m.—Brunswick Pamphlets Musical Recital.
12.15 p.m.—Information: Mails, Shipping, and Port Directory.
12.18 p.m.—Buses in call by wireless.
12.20 p.m.—Fruit Market Report.
12.22 p.m.—Vegetable Market Report.
12.24 p.m.—London Metal Market Report.
12.26 p.m.—Dairy and Farm Produce Market Report.
12.30 p.m.—G.P.O. Clock and Chimes.
12.35 p.m.—Fruit Market Report.
12.42 p.m.—Rabbit Market Report.
12.54 p.m.—News from the "Sun."
12.55 p.m.—Hiller's Instrumental Quartette, direction, Cyril Cadogan.
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."
2 p.m.—G.P.O. Clock and Chimes.
News from the "Sun."
2.15 p.m.—Civil Service Stores Trio, direction, Miss de Courcy Brewer.
2.20 p.m.—G.P.O. Clock and Chimes.
News from the "Sun."
2.30 p.m.—Musical programme from the Studio.
2.50 p.m.—News from the "Sun."
3 p.m.—G.P.O. Clock and Chimes.
Civil Service Stores Trio.
4.15 p.m.—Serial Story.
4.25 p.m.—Musical programme from the Studio.
4.40 p.m.—News from the "Sun."
4.45 p.m.—Review of night's programme.
4.51 p.m.—Reading Room.
4.57 p.m.—Special Clock Forecast.
5 p.m.—G.P.O. Clock and Chimes.
Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chimes.
Children's Section.
5.55 p.m.—Music.
7 p.m.—Australian Meteorology, Land and Finance Co's Report.
Weather Report and Forecast, by courtesy of Aust. Meteorological Office.
Producers Distributing Society's Fruit and Vegetable Market Report.
Stock Exchange Reports.
Grain and Fodder Report ("Sun").
Dairy Produce Report ("Sun").
7.15 p.m.—Country News from the "Sun."
7.20 p.m.—Talk at "Tennis," by Dr. McElhannon.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
Broadcaster's Tonal Chorus.
An Hay's Programme, presented by Connoisseur.
8.8 p.m.—Broadcaster's Light Orchestra, under the direction of Mr. J. Knight Barnett.
8.11 p.m.—Mr. Stanley R. Catlett (soprano).
8.18 p.m.—Mr. Raanan Hulenbergh (soprano).
8.25 p.m.—Miss Gladys Verona (soprano).
8.45 p.m.—Mr. Gerald Walcott (violinist).
8.58 p.m.—Weather Report and Forecast, by courtesy of Mr. G. J. Mares, Govt. Meteorologist.
9 p.m.—G.P.O. Clock and Chimes.
9.1 p.m.—Broadcaster's Light Orchestra.
9.11 p.m.—Mr. Herbert C. Hinchcliffe (clarinet).
9.15 p.m.—Miss Mary Neale (soprano contralto).
9.25 p.m.—Mr. Raanan Hulenbergh.
9.35 p.m.—Duet, Messrs. S. R. Catlett and H. C. Hinchcliffe.
9.40 p.m.—Broadcaster's Light Orchestra.
9.45 p.m.—Mr. Stanley R. Catlett.
9.54 p.m.—Mr. Gerald Walcott.
10.4 p.m.—Mr. Herbert C. Hinchcliffe.
10.5 p.m.—Miss Mary Neale.
10.18 p.m.—The Amateurs' Dance Band, broadcast from the Ballroom of the Ambassadors. During intervals between dances "new" news will be broadcast.
11.25 p.m.—G.P.O. Clock and Chimes.
National Anthem.

2UW, SYDNEY

Tuesday.

- 8.00 a.m.—News, shipping, trade, medical items.
8.45 a.m.—Auntie Flo's Talk for Women.
9.00 a.m.—Review of day's programme.
10.00 a.m.—Close down.
10.30 a.m.—Studio.
10.55 a.m.—Home of evening programme.
11.00 a.m.—Close down.
11.30 a.m.—Home of evening programme.
11.45 a.m.—Close down.
12.00 p.m.—Where to Go.
12.10 p.m.—Musical Items.
12.30 p.m.—Mr. Grammond's Talk on Maternity.
12.40 p.m.—Musical Items.
1.00 p.m.—Musical Items.
1.10 a.m.—Spirit of the Opera, Act No. 6, "Aida" (Verdi), by George F. Mansel.
1.20 a.m.—Short talk on records of the month.
1.30 a.m.—Musical Items.
1.50 a.m.—Home of week's programme.
2.00 a.m.—Close down.

3LO, MELBOURNE.

Tuesday.

- MIDDAY SESSION.
12.07 noon.—Time Signal; Retail Prices, controlled by the Australian Mines and Metals Association from the London wire; 22. change this day; British Official Wireless (London 404); Kewster and the Australian Post Association Cable; "Argus" News Service.
2.15 p.m.—COMMUNITY SINGING from the STUDIO.
Conducted by Mr. G. J. MACKAY, assisted by the STUDIO QUARTETTE.
ERN STROTMAN, harmonium.
"The Village Concerts."
"Trio."
GRACE JACKSON, Contralto.
"Lullaby" (Grampton).
"Miss You" (Ivor Novello).
1.45 p.m.—Stock Exchange Information, Meteorological Information, Weather Forecast for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Reports; Rainfall for Victoria, Tasmania, South Australia and New South Wales.
2.0 p.m.—Close down.

AFTERNOON SESSION.

- 2.0 p.m.—JOE ARONSON AND HIS SYM-PHONIZERS.
2.10 p.m.—"AU FAIT."
2.25 p.m.—JOE ARONSON AND HIS SYM-PHONIZERS.
2.35 p.m.—WALTER CHAMPNEY, assisted by ERLINE GILBERT, sing:
"How Day You!"
"She Sells Sea Shells."
2.45 p.m.—JOE ARONSON AND HIS SYM-PHONIZERS.
2.55 p.m.—JAMES KELLY, tenor:
"Easier" (Columbia Trolley).
"Parted" (Tosti).
3.1 p.m.—JOE ARONSON AND HIS SYMCO-OPATING SYM-PHONIZERS.
3.12 p.m.—WENDLING AND MOLLOY, entertainers:
"Beautiful Hawaii" (Secodex).
"Ideal Home" (Koral).
3.22 p.m.—JOE ARONSON AND HIS SYM-COPATING SYM-PHONIZERS.
3.42 p.m.—MAYNOR MORELAND.
3.45 p.m.—"Herald" Nova Section; Stock Exchange Information.
3.9 p.m.—Close Down.

EVENING SESSION.

- CHILDREN'S HOUR.
5.30 p.m.—Answers to Letters and Birthday Greetings by "MARY GUMLEA"; THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY IS FOR EVERYBODY. "Recklessness" is an indication of courage. Brave men are always careful!
8 p.m.—STUDIO QUARTETTE:
"Dance of the Hours" (Paurbellein).

- 6.10 p.m.—FREDIA NORTHGOTE will sing some Irish songs for the children.
6.17 p.m.—"MARK GILLEAN":
"Home."
"Story: 'The Magic Clock'."
6.28 p.m.—FREDIA NORTHGOTE will sing some Irish songs for the children.
6.30 p.m.—"STYLISH L'ARTISTE":
"The Beauty and the Beast."
6.40 p.m.—Official Report of Newmarket Stock Sales by the Associated Stock and Station Agents, Boucher Street, Melbourne; Numbers of Sheep and Cattle shown for week's sale.
6.55 p.m.—"Herald" News Review; Wireless Synopses; Shipping movements.
7 p.m.—Floss Longue Introduction.
7.05 p.m.—River Reports.
7.15 p.m.—"Fruit Market Reports by J. R. Barrett, Ltd., Market Street."
7.25 p.m.—Market Reports by the Victorian Producers' Cooperative Company, Ltd.; Fodder Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Industrial Market Reports from the Victorian Fruitlers' Association.

NIGHT SESSION.

- 7.15 p.m.—Madame Seward, "Banquet musicale."
7.20 p.m.—Under the Auspices of the University Extension Board, MISS OLGA FRANKLIN, M.A., will speak on:
"Child Literature by Australian Authors."
7.40 p.m.—MR. C. H. LINDY will speak on:
"Australian Women Writers."
8.0 p.m.—MR. J. C. FRANKMAN, Australia's Champion Road Cyclist.
"Preparation for Attack on Sydney to Melbourne Record."
8.15 p.m.—DORIS L. McFATH, Violin:
"Bessie" (Wienlawski).
"Berence" (Townsend).
"Cherise" (Wienlawski).
8.20 p.m.—ROY GALLOWAY and BERYL HAYDEN.
"Baritone," "Yacht" (Allerton).
Comedienne, "Bessie" (Western).
8.30 p.m.—STUDIO PRESENTATION OF THE OPERA "IL TROVATORE" Under the Direction of J. SUTTON CROW; Assisted by the STUDIO QUARTETTE and AUBURN METHODIST CHORUS.
OVERTURE.
Lovers ERLIN DAVIES, Soprano
Luis BEATRICE McVITT, Soprano
Alfonso.
MADAME AIGNE JANSEN, Contralto
Maurice JOHN D. SULLIVAN, Tenor
Rita CHARLES D. BIGGALL, Tenor
It Gents at Lusa.
J. ALEXANDER BROWN, Baritone
Fernando ERLIN DAVIES, Soprano
8.50 p.m.—"MADAME AIGNE JANSEN," week-day light-bouyweight wroster, will speak on:
"Ergence, Health and Happiness."
10.0 p.m.—JOE ARONSON AND HIS SYM-COPATING SYM-PHONIZERS:
"Stalmer" (Nielch).
"Jack in the Box" (Nielch).
"Mary Lou" (Lymon).
10.10 p.m.—Special Notices and Announcements.
10.15 p.m.—Special Information:
British Official Wireless News; "Argus" News Service.
10.17 p.m.—WALTER CHAMPNEY, assisted by ERLINE GILBERT.
Duet, "Chicks," from "The Country 499";
Erlene Gilbert, "Dear Little Jimmy Fair";
10.27 p.m.—JOE ARONSON AND HIS SYM-COPATING SYM-PHONIZERS:
"Marie, Marie, Marie" (Brown).
"Just a Rose in Old Killarney."
"Indian Love Call" (Friml).
10.27 p.m.—Special Notices and Announcements; THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY IS FOR EVERYBODY. "Recklessness" is an indication of courage. Brave men are always careful!
10.47 p.m.—JOE ARONSON AND HIS SYM-COPATING SYM-PHONIZERS:
"Rose Marie" (Friml).
"Gimme a Little Kiss, Will You, Hub" (Turk).
"Ain't He Tooty, Tooty" (Billard).

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11.0 p.m.—OUR GREAT THOUGHT:

"The sun's courage is always equalled with circumstance; this song is the quality which distinguishes the course of the wise from the hardness of the rash and foolish."
—Jones of Newland.

11.17 p.m.—JOE ARMONSON AND HIS SYN-

OPHATING ARMONSONS.

11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Tuesday.

MIDDAY SESSION—4 to 5 p.m.

AFTERNOON SESSION.

A PROGRAMME OF MUSIC FROM THE STUDIO:

8.00 p.m.—A programme of music by the Studio Orchestra, including—"Fantasia," "Napoléon" (Boschka), "The Blue" (Foujour ou Jambou) (Walshent); contralto solo, selected, Miss Dorothy Brown; reverie characteristic, "In a Monastery Garden" (Kretschler); airtune, "La Comedienne" (Hosmer); organ solo, selected, Miss Verna Mewcom; selection, "Prince Character" (King); contralto solo, selected, Miss Dorothy Brown; fox-trot, "Moonlight on the Garden" (Meyer); march, "The Suburban" (Allan).

4 p.m.—Cookery talk, by "Betty Simpson."

4.15 p.m.—"The Telegraph" news.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

8 p.m.—"Daily Standard" news; announcements.

8.15 p.m.—Lecture by "The Romance of Eberanto" by Mr. Maurice Hyde.

8.30 p.m.—"The Children's Session; Stories by "Uncle Jim."

9 p.m.—Special news service; market reports; sports reports.

9.15 p.m.—Weather news; announcements.

9.45 p.m.—Standard time signals.

9.55 p.m.—Lecturette, "Meteorology, Corrected," Lubrication Talk, No. 124" by "Garvey."

NIGHT SESSION.

SANDGATE METHODIST CHURCH.

Tonight's programme will be provided by the Sandgate Methodist Choir, conductor, Mr. Norman Evans; accompanist, Miss Winnie Freeman.

FROM THE STUDIO:

8 p.m.—Opening chorus, "I Believe in Sandgate" (Middleton), the Choir; part song, "Anchors" (Watson), the Choir; solo, with humming accompaniment arranged by N. Evans, "Mammoth" (MacIntosh), Mr. J. Boscio; "Cello Meme" (a) Watson; "Simple Avo" (Thorne), (b) "L'Innocence" (Squire), Mr. H. H. Dean; organ solo, "Thanksgiving" (Cowan), Mrs. H. W. Chapman; recitation, selected, Mr. Lou de la red; solo, with humming accompaniment arranged by N. Evans, "The Ash Grove" (Welsh Melody), Mr. Bryth Evans; part song, "Sleep, Gentle Lady" (Ehlers), the Choir; solo, with humming refrain, air, by N. Evans, "Blessy Hollow Time" (Kuntze), Mrs. H. Taylor; part song, "Viding's Song" (Corderis Taylor), the Choir; "Solo selection," "Romance" (Bert Johnson), (b) "Dance Rustique" (Squire), Mr. H. H. Dean; jubilee chorus, "Get You Ready" Brandon Bros.; solo, with humming accompaniment, "The Banks of Allan Water" (Hardley), Miss Gen Taylor; organ solo, selected, Miss Winnie Freeman; jubilee chorus, "My Lord's Writing all the Time" Brandon Bros.; solo, with humming accompaniment, "The Wind" (Nebel), Miss Norma Woodhead; duet, "Come to the Fair" (Kashpore Martin), Miss Esie Cox and Mr. A. H. Evans.

9 p.m.—Metropolitan Weather Forecast; jubilee chorus, "What King of Illness are You going to Wear" Brandon Bros.; solo, with humming accompaniment, air, by N. Evans, "Three Fishers" (Lullah), Mrs. C. H. Gies; jubilee chorus, "Tim A'pulling" Brandon Bros.; recitation, selected, Mr. Lou de la red; ladies' chorus, "The Maiden of the Fleur de Lys" (Richardson), the Ladies; selection of Hymns, introducing "St. Agnes" (Dr. Estlin); selection of Hymns, continued, introducing "Bethesda" (R. F. Bridg), "Stainforth" (J. C. Natras), "Castle Ridge" (F. R. J. Harvey), the Choir; solo and chorus, "The Name of Jesus" introducing tune "Belmont" Mrs. H. W. Chapman; humorous duet, "Contradicting" (Amos), Mr. and Mrs. J. H. Harshorn; part song, "The Lost Chord" (Ballou), the Choir; part song, "Asleep in the Deep" (Petrie), Mr. A. H. Evans and Party; part song, "John Peel" (J. E. West), the Choir; two part song, "When the winds blow in from the Sea" (Smyth), Mrs. E. Bishop, Mr. N. Evans and Party; part song, "Lullaby" (Lou Williams), the Choir; part song, "Perfect Day" (Jacobs-Hilly), the Choir.

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

Close down.

Tuesday.

12.30 p.m.—Tune in.

12.35 p.m.—Market, News, and Cables.

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

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

1.2 p.m.—Studio Instrumental Trio.

1.30 p.m.—Close down.

3.30 p.m.—Tune in.

3.35 p.m.—Musical programme, including pianoforte selections by Miss Evelyn Hill, A.R.C.M.

3.45 p.m.—"Health Talk," by Mr. H. S. Wattles, of the Histon School of Physical Culture.

4 p.m.—Studio Instrumental Trio.

4.40 p.m.—Close down.

6.45 p.m.—Duet in.

6.55 p.m.—"Favourite" "Dick Turpin," by Uncle Duffy, with the other Aunties and Uncles.

7.20 p.m.—"Block and Share Intelligence," Market Reports.

Cables, News by summary of "The West Australian" Newspaper Coy.

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

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

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

FROM THE STUDIO.

8.3 p.m.—Musical programme, including Vocal Articles.

Opening Overture, relayed from the Grand Theatre, Murray Street.

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

Ships within range announcement.

Weather Report and Forecast.

10.30 p.m.—Close down.

7ZL, HOBART

Tuesday.

MORNING SESSION.—11 a.m. to 12 noon.

AFTERNOON SESSION.

9 p.m.—G.P.O. Clock Chimes.

9.15 p.m.—Tune in selection.

9.30 p.m.—Robert Stock Exchange Quotations.

Weather Information.

Items of interest; Announcements.

10.15 p.m.—Orchestral selections, by 7ZL Orchestra.

4.15 p.m.—Education Talk or Musical Items, from the Studio.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

8.55 p.m.—"Uncle Peter's" half-hour.

9 p.m.—"Grand Healer" talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selection.

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

7.50 p.m.—"Mystery" special Tasmanian News Service.

Railway Auction Produce Sales.

Edward Stock Exchange Quotations.

8 p.m.—G.P.O. Clock Chimes.

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

8.55 p.m.—Dance numbers by Mrs. Stimpards' Trio from Imperial Hotel, Hobart.

Items relayed from the Studio.

9.40 p.m.—British Official Wireless News.

9.45 p.m.—"Mystery" special Interstate News Service.

Tasmanian District Weather Reports.

9 p.m.—Weather forecasts.

Slipion announcements.

Ships within wireless range.

Natural Anthem.

Wednes., Sept. 15
6WF, PERTH.
7FC, SYDNEY.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.

10.15 a.m.—Studio music.

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

10.50 a.m.—Studio music.

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

11.5 a.m.—A.P.A. and Reuter's Cables.

11.15 a.m.—Studio music.

11.35 a.m.—A Talk on Home Cooking and Recipes by Miss Ruth Farst.

11.50 a.m.—Close down.

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.

12.5 p.m.—Stock Exchange first call.

12.5 p.m.—Official weather forecast, rainfall.

12.5 p.m.—Studio music.

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

12.25 p.m.—Studio music.

12.30 p.m.—Marching music for School Children.

12.40 p.m.—Ivy Dunstone, messs.

12.45 a.m.—THE OAK HALL INSTRUMENTAL TRIO.

12.50 p.m.—Studio music.

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

1.05 p.m.—"Evening News" midday news service.

1.10 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

1.25 p.m.—Stock Exchange second call.

1.30 p.m.—Marching music for School Children.

1.45 p.m.—Ivy Dunstone, messs.

1.45 p.m.—Studio music.

1.55 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

2 p.m.—"Big Ben" Close down.

AFTERNOON SESSION.

2 p.m.—"Big Ben" and announcements.

2.5 p.m.—Recital by the pupils of Signor Castelli.

3.15 p.m.—Joyce Gillespie, mezzo-soprano.

"Invitation" (Tate).

3.45 p.m.—Recital by the Pupils of Signor Castelli.

4.00 p.m.—Marching music for School Children.

4.20 p.m.—William Boywer, bass.

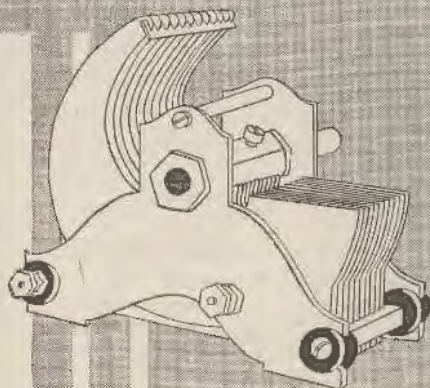
"Poor Man's Garden" (Bassell).

4.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

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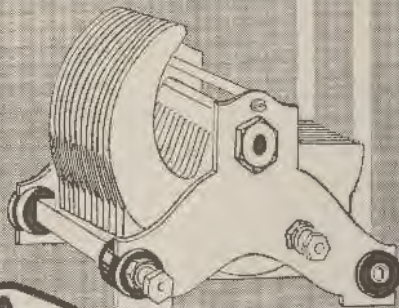
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- 8.05 p.m.—Items by the People of Signor Caselli.
 8.20 p.m.—Allen Beer, mezzo:
 "Listening" (Percy).
 8.45 p.m.—Items by the People of Signor Caselli.
 9.15 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 9.25 p.m.—William Roverey, bass:
 "Away in Ashlere" (Loper).
 9.40 p.m.—Katherine Dewley, soprano:
 (a) "Dance Song."
 (b) "The Roadside" (Mulliner).
 9.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 9.55 p.m.—Jorge Gilmara, mezzo soprano:
 "Out Wyt" (Loper).
 10.05 p.m.—Allen Beer, mezzo:
 "A Memory of Spring" (Newton).
 10.15 p.m.—Block Exchange, third call.
 10.25 p.m.—Katherine Dewley, soprano:
 "The Merry Heart" (Bellet).
 10.35 p.m.—The Westworth Symphonic Dance Orchestra, under the baton of Cyril Kaye.
 9 p.m.—"Big Ben."
 Close down.

EARLY EVENING SESSION.

- 8.40 p.m.—Programme announcements.
 8.45 p.m.—The "Hello Man" talks to the children.
 9.10 p.m.—"Eagle Eye" and "Jerry" entertain the young folk.
 9.40 p.m.—Dinner music.
 7 p.m.—"Big Ben" and sporting news.
 7.10 p.m.—Delicat's Market reports (Wool, Wheat and Stock).
 7.18 p.m.—Fruit and Vegetable Markets.
 7.30 p.m.—Weather and shipping news.
 7.35 p.m.—"Evening News" late news service.

NIGHT SESSION.

- 7.30 p.m.—Programme announcements.
 7.40 p.m.—Harold Hickey, tenor:
 (a) "The Great Awakening" (Kramer).
 (b) "For You Alone" (Gosli).
 7.48 p.m.—Gladiolus Bell, "cello solo:
 "Romance aux Fards" (Bardoff).
 7.55 p.m.—A few words about "AUBU's" work.
 8 p.m.—"Big Ben." Haymarket Operatic Orchestra of 17 members, under the baton of Mr. Stanley Porter.
 8.10 p.m.—Raymond Ellis, English baritone, and Elsie Paszura, soprano, will present the third of a series of 2 operatic numbers, representing the Vilain and Heroine in Opera.
 Mr. Ellis will sing numbers from "Faust" and "Lepistofele."
 Miss Paszura will sing:
 (a) "Rosa and Arza;" "Ah! Fern' a' Lei" (Verdi).
 (b) "Onion Leggera" ("Shadow Song").
 (c) "Diaper" ("Meynber").
 8.30 p.m.—Win and Windie, English entertainers.
 8.35 p.m.—The Haymarket Operatic Orchestra.
 8.40 p.m.—Harold Hickey, tenor:
 (a) "Serenata" (Toselli).
 (b) "Smith's Through" (Penn).
 8.50 p.m.—Gladiolus Bell, "cello solo:
 "Reverence de Jockey" (Gard).
 9 p.m.—"Big Ben." Late weather forecast.
 Win and Windie, English entertainers.
 9.6 p.m.—From the King's Hall—Items from the Record by Murray Gibber, in aid of the United Charities' Fund.
 Violin solo by Mr. Moore MacKintosh.
 Musical numbers by Mr. G. Murray Gibbs.
 Pianoforte solo, Miss Gladys Wenzel.
 9.30 p.m.—Gladiolus Bell, "cello solo (from the Studio).
 "Andante Cantabile" (Tschikow).
 9.40 p.m.—Win and Windie, English entertainers.
 9.45 p.m.—Raymond Ellis, English baritone.
 9.55 p.m.—The Haymarket Operatic Orchestra of 17 members, under the baton of Mr. Stanley Porter.
 10.5 p.m.—Elsie Paszura, soprano:
 (a) "Lovely Spring" (Gosson).
 (b) "A Southern Song" (Rosen).
 10.18 p.m.—The Haymarket Operatic Orchestra.

- 10.30 p.m.—From the Sydney Town Hall.
 Dance music supplied by Orchestra conducted by Mery Lyons, on the occasion of the Smith Family Ball.
 10.55 p.m.—Late news and announcements.
 11 p.m.—"Big Ben." Dance music from the Sydney Town Hall, until 11.30 p.m.
 11.30 p.m.—National Anthem.
 Close down.

2BL, SYDNEY.

Wednesday.

EARLY MORNING SESSION.—7 to 8 a.m.

MORNING SESSION.

- 11 a.m.—G.P.O. Clock and Chimes.
 Musical programme from Studio.
 11.15 a.m.—Talk "Asthma," by Miss Verling.
 Broadcasters' Women's Welfare Authority.
 Social Notes: Replies to correspondents, by Mrs. Jordan.
 Talk on "Dental Hygiene," by a member of the Dental Board.
 Racing information, broadcast immediately after each race, by courtesy of the "Sun."
 12 p.m.—G.P.O. Clock and Chimes.
 Special Ocean Forecast and Weather Report.
 12.5 p.m.—Branwood Fanstrophe Musical Recital.
 12.15 p.m.—Information: Mail, Shipping, and Fore Directory.
 12.15 p.m.—Bulls in call by wireless.
 12.20 p.m.—Fruit Market Report.
 12.22 p.m.—Vegetable Market Report.
 12.24 p.m.—London Special Market Report.
 12.30 p.m.—Dairy and Edible Produce Market Report.
 12.30 p.m.—G.P.O. Clock and Chimes.
 Exchange Market Report.
 12.32 p.m.—Fash Market Report.
 12.34 p.m.—Habbit Market Report.
 12.36 p.m.—News from the "Sun."
 12.45 p.m.—Hilleg's Instrumental Quartette: "Silvering," Carl Cassini.
 1.20 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.
 Musical programme from Studio.
 2.10 p.m.—Racing resume.
 2.15 p.m.—News from the "Sun."
 2.25 p.m.—Operatic Talk, "The Great Composers," by Mr. G. A. Saunders.
 3 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun."
 2.10 p.m.—Musical programme from the Studio.
 2.30 p.m.—Talk on "How to Maintain Your Health," by Dr. Du Mesurier.
 3.40 p.m.—Dungowan Dance Band, broadcast from the Dungowan Cabaret.
 4 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun."
 4.15 p.m.—Serial Story.
 4.30 p.m.—Dungowan Dance Band.
 4.35 p.m.—News from the "Sun."
 4.47 p.m.—Racing resume.
 4.50 p.m.—Special Ocean Forecast.
 5 p.m.—G.P.O. Clock and Chimes.
 Close down.

AFTERNOON SESSION.

- 8.40 p.m.—Programme announcements.
 8.45 p.m.—The "Hello Man" talks to the children.
 9.10 p.m.—"Eagle Eye" and "Jerry" entertain the young folk.
 9.40 p.m.—Dinner music.
 7 p.m.—"Big Ben" and sporting news.
 7.10 p.m.—Delicat's Market reports (Wool, Wheat and Stock).
 7.18 p.m.—Fruit and Vegetable Markets.
 7.30 p.m.—Weather and shipping news.
 7.35 p.m.—"Evening News" late news service.

EARLY EVENING SESSION.

- 8.45 p.m.—G.P.O. Clock and Chimes.
 Children's Session.
 9.30 p.m.—Musical programme from the Studio.
 SPECIAL COUNTRY SESSION.
 7 a.m.—G.P.O. Clock and Chimes.
 Australian Mercantile, Land and Finance G.O. Report.
 Weather Report and Forecast, by courtesy of Govt. Meteorologist.
 Producers' Distributing Society's Fruit and Vegetable Market Report.
 Stock Exchange Reports.
 Grain and Fodder Report ("Sun").
 Dairy Produce Report ("Sun").
 8.30 a.m. Talk.
 7.15 p.m.—Country News from the "Sun."
 7.25 p.m.—Talk by a member of the St. John Ambulance Association.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
 Broadcasters' Topical Chorus.
 8.5 p.m.—The Canterbury District Band (Hobson). Mr. Brian Nicolson, broadcast from Baker's Hall, Camper.
 9.25 p.m.—Mr. Hartman Allen (violinistic).
 9.35 p.m.—Mr. Donald Woodrow (baritone).
 9.41 p.m.—Cec. Morrison and his Gloomchancers, broadcast from the Ballroom of the Bondi Casino.
 9.55 p.m.—Mr. H. J. Wylie (instrumentalist), in Concertino solo.
 10 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Marra, Govt. Meteorologist.
 10.2 p.m.—Broadcasters' All Sports Experts will talk on "Rugby, Golf and Sporting News."
 10.15 p.m.—Madame Gossans-Vicery (soprano).
 10.35 p.m.—The Canterbury Band.
 10.5 p.m.—Mr. Donald Woodrow.
 10.3 p.m.—Cec. Morrison and his Gloomchancers, broadcast from the Ballroom of the Bondi Casino.
 10.15 p.m.—Mr. H. J. Wylie (instrumentalist).
 10.22 p.m.—Cec. Morrison and his Gloomchancers, broadcast from the Ballroom of the Bondi Casino.
 10.32 p.m.—Resume of following day's programme.
 10.35 p.m.—Cec. Morrison and his Gloomchancers, broadcast from the Ballroom of the Bondi Casino.
 10.4 p.m.—"Sun" News Items.
 10.50 p.m.—Cec. Morrison and his Gloomchancers, broadcast from the Ballroom of the Bondi Casino.
 11.15 p.m.—G.P.O. Clock and Chimes.
 National Anthem.

2GB, SYDNEY

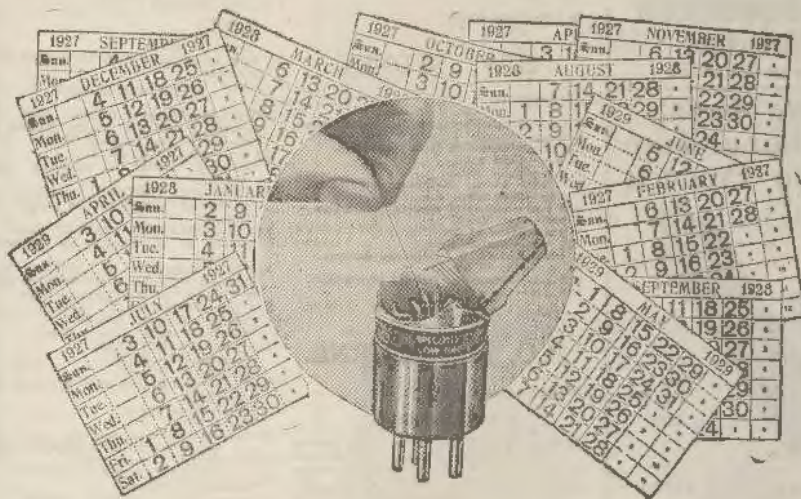
Wednesday.

MORNING SESSION.

8 a.m. to 12 a.m.

AFTERNOON SESSION.

- 3.30 p.m.—Music.
 3.37 p.m.—Address.
 3.42 p.m.—Music.
 3.47 p.m.—Address by Mrs. Crowther.
 4.22 p.m.—Music.
 4.29 p.m.—Close down.
 7 p.m.—Music.
 7.5 p.m.—Address.
 7.12 p.m.—Benediction of the Most Holy Sacrament.
 7.40 p.m.—Address by Dr. P. K. Keast.
 7.50 p.m.—Announcements.
 7.55 p.m.—Songs by Eva Casimir:
 1. "Down, gentle Snows," (Hendale Bennett).
 2. "Golden Slumbers" (Old English Air).
 8.0 p.m.—Address by Professor John Wood.
 8.10 p.m.—Lella solo, Marielle Lang.
 3. "Allegro from Sonata."
 4. "Adagio from Sonata" (Bachtown).
 8.25 p.m.—"St. John's" Quartet.
 1. "Clock Clock."
 2. "De Ringt lalt Cooe."
 3. "De Ole Banjo" Plantation Song.
 Ethel Jones, Eva Casimir, Thomas Hall, Clement Henking.
 8.50 p.m.—Violin solo, Monica Border.
 1. "Midnight Bell" (Kreutzer).
 2. "The Swan" (Grieg, Noct.).
 8.58 p.m.—Instrumental Trio, Monica Border, Marielle Lang, Ada Brook.
 3. "Sinfonia from Carmen" (Bizet).
 9 p.m.—Nocturnal by Walter Hunt.
 9.25 p.m.—Songs by Clement Henking.
 1. "Night on Boat."
 2. "Valen's Song" (Nocturnal).
 9.23 p.m.—Rising notes, Ada Brook.
 1. "Trieste de Columbine" (Schubert).
 2. "Black note Study" (Chopin).
 9.35 p.m.—Songs by Ethel Jones.
 1. "Milkmaid's Song."
 2. "Cauldron Lament" (Old Negro).



1927—1928—1929

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- 8.45 p.m.—2GH Vocal Quartet.
1. "Lovely Night."
2. "The Maiden of the Fleur de Lys."
3. "Good King Wenrocks."
Ethel Jones, Eva Cassini, Thomas Hall, Clement Hosking.
9.58 p.m.—Talk.
10 p.m.—Close down.

2UW, SYDNEY

Wednesday.

- 8 a.m.—News, shipping, mail, musical items.
9.48 a.m.—Auntie Flo's talk for Women.
9.57 a.m.—Assume of day's programme.
10 a.m.—Close down.
2 p.m.—Studio items.
2.58 p.m.—Resume of evening programme.
5 p.m.—Close down.
5.58 p.m.—Resume of evening programme.
8 p.m.—Close down.
7 p.m.—Where to Go.
7.45 p.m.—Musical items.
8 p.m.—Richard W. Gillespie, baritone.
8.8 p.m.—Studio items.
9.28 p.m.—Resume of forward programme.
9.36 p.m.—Close down.

3LO, MELBOURNE.

Wednesday.

MIDDAY SESSION.

- 12 noon.—Time signal. Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. "Argus" news service.
12.20 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
12.30 p.m.—WENDLING AND MOLLOY, entertainers:
"Morning."
"High Up in the Hills" (Lewin Young).
12.40 p.m.—Stock Exchange information.
12.45 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
12.55 p.m.—JAMES RILEY, tenor:
"You Alone O' Me" (Wilfred Sanderson).
"Mah Lindy Lou" (Strickland).
1 p.m.—Father Time blows one little bit of dust from Miss Davidson's spectacles.
1.1 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
1.16 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports. Rainfall for Victoria, South Australia, Tasmania and New South Wales.
1.17 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
1.27 p.m.—GILBERT AND CHAMPNEY.
Song, "Oh, Oh, It's a Terrible Tale."
"Mary McJee."
1.57 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
1.47 p.m.—HERYL HAYDEN, comedienne:
"Millions of Men."
"Sad Endings."
1.54 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
2 p.m.—Description of Hurdle Race, two miles, SANDOWN PARK RACES, by "Musket," of the "Sporting Globe."
2.5 p.m.—Close down.
2.30 p.m.—Description of Trial Welter, one mile, SANDOWN PARK RACES, by "Musket," of the "Sporting Globe."

- 2.35 p.m.—Musical programme from Messrs. Allan and Co.'s stand at the Royal Show Grounds:
Selection.
HOB MOLYNEUX.
"Dinah Sing Alabama."
Pianissimo—TAY HELL.
JACK O'HAGAN.
"Forgotten."
FRANCES LEA.
"Hawaii Mews."
HOB MOLYNEUX AND JACK O'HAGAN, selected.

AFTERNOON SESSION.

- 3 p.m.—Description of Sandown Plate, six furlongs, SANDOWN PARK RACES, by "Musket," of the "Sporting Globe."
3.4 p.m.—STUDIO QUARTET:
"Moonlight Sonata," 1st movement (Beethoven).
3.15 p.m.—ERN TROTMAN, humorist:
"A Limerick Compendium" (1st piece).
"Wames."
3.23 p.m.—REGINALD BRADLEY, violin:
"Sonata in C Minor," 1st movement (Grieg).
3.30 p.m.—Description of Sandown Park Handicap, 1½ miles, at SANDOWN PARK, by "Musket," of the "Sporting Globe."
3.35 p.m.—JAMES RILEY, tenor:
"You in a Gondola" (Clarke).
"Roses of Picardy" (Hudyn Wood).
4.45 p.m.—STATION TRIO:
"Clingonians" (Marie).
"Zingarians" (Baron).
4.52 p.m.—WENDLING AND MOLLOY, vaudeville:
"Preparedness March."
"Early Voo."
4 p.m.—Description of Sandown Purse, one mile, SANDOWN PARK RACES, by "Musket," of the "Sporting Globe."
4.5 p.m.—TASMA TIERNAN, cellist:
"Allegretto" (Mozart).
4.10 p.m.—HOT GALLOWAY, baritone:
"Marie, My Girl" (Aiken).
"Fairings" (Marini).
4.17 p.m.—STUDIO QUARTET:
"Arabian Dance."
"Chinese Dance" (Crist).
4.30 p.m.—Description of Jumpers Flat Race, 1¼ miles, SANDOWN PARK RACES, by "Musket," of the "Sporting Globe."
4.35 p.m.—WALTER CHAMPNEY, assisted by EILEEN GILBERT:
"Our Avenue."
"As a Porcelain Pines for its Park."
4.45 p.m.—"Herald" news service. Stock Exchange information.
5 p.m.—Close down.
- EVENING SESSION.
- 5.30 p.m.—"MARY MARY" will radiate "Happy Returns" to those on today's greetings list, and thank others for their little letters of appreciation.
6 p.m.—STUDIO QUARTET:
"Wood Pinks" (Hodley).
6.10 p.m.—GRACE JACKSON, contralto:
Woodland music.
6.17 p.m.—"MARY MARY" will tell the overgrown story of "Robin Hood and Little John."
6.25 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for today is for CHILDREN: "Jack and Jill went up the busy ladder for behind them Jack came down with a broken crown and Jill—they never did find her."
6.35 p.m.—THE STUDIO QUARTET:
"Robin Hood Suite."
6.46 p.m.—"Herald" news service. Weather reports. Shipping movements.
6.47 p.m.—Stock Exchange reports.
6.52 p.m.—Flax market reports by J. N. Gossell, Ltd. Rabbit prices.
6.55 p.m.—River reports.

6.55 p.m.—Market reports. Official reports of Newmarket sheep sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Poultry, grain, hay, straw, Jute, dairy produce, potatoes and onions.
7.8 p.m.—Market reports of fruit by the Victorian Fruitgrowers' Association, compiled by "The Fruit World."

NIGHT SESSION.

1.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE—MR. H. CROWE, Acting Director of Agriculture, will participate your interest in one of the most attractive displays at the coming ROYAL AGRICULTURAL SHOW—
"The Departmental Exhibit."

7.50 p.m.—CAPTAIN PETERS:
"Australian and New Zealand Authors' Week."

7.50 p.m.—MR. H. SCHWINGER will speak a few words from the ROYAL AGRICULTURAL SHOWGROUND.

8 p.m.—Something of interest to lovers of Australian literature.

8.15 p.m.—"FIDELIO."
An Opera in two acts, by Beethoven. By THE MELBA CONSERVATORIUM OPERA SOCIETY—MR. A. C. BARTLEMAN'S MALE CHORUS AND THE MELBOURNE SYMPHONY ORCHESTRA under the direction of MR. FRITZ HART.

CHARACTERS:

Leonora (under the name of Fidelio),

ISIS BROWN

Marcellina (the Jailer's daughter),

GRETA CALLOW

Florestan (Leonora's husband),

STANLEY ALLEN

Jaquino (Porter of the Prison),

LENDOX BREWER

Pizarro (Governor of the Prison),

HOWARD ANDREWS

Fernando (Minister of State),

E. J. MANN

Rocco (the Jailer),

J. HOWARD KING

Chorus of Soldiers, Prisoners and Towns-

people.

ACT I.

Scene.—The courtyard of the prison.

Jaquino making love to Marcellina.

Overture.

Duet. (Marcellina, Jaquino):

"Al Last, Dear, I Find You Alone."

Aria (Marcellina):

"Oh, Day of Joy."

Quartet. (Marcellina, Leonora, Jaquino,

Rocco):

"He Doth to Me Incline."

Aria (Rocco):

"Life is Nothing Without Mercy."

Trio (Leonora, Marcellina, Rocco):

"Well Said, My Son."

March.

Aria with Chorus (Pizarro and Chorus of

Soldiers):

"H! What a Day is This"

Duet.

"Come, Follow, Hearken, Thou Must

Obe Me."

Recitative and Aria (Leonora):

"Thou Monstrous Fiend."

Prisoners' Chorus:

"Oh, What Delight."

Chorus:

"Farewell, Thou Worn and Sunny

Beam."

ACT II.

Scene.—The secret prison where Florestan

is confined. He is alone and asleep when

Rocco and Leonora enter.

Recit. and Aria (Florestan):

"Heav'n, What Gloom Profound."

Duet (Leonora and Rocco):

"Sizy Not Thy Work."

Trio (Florestan, Leonora, Rocco):

"In Better Worlds."

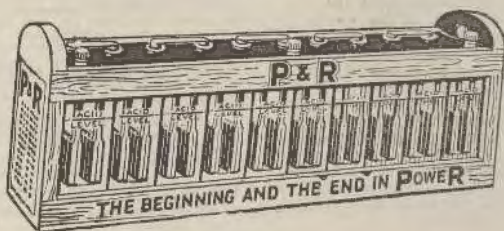
Quartet (Leonora, Florestan, Pizarro,

Rocco):

"Thou Diest."

All Leading Radio Dealers Stock THE POPULAR PETO & RADFORD Wireless H.T. Battery

Type CG



This model has been made up in order to meet the popular demand for a low priced H.T. wireless accumulator.

Each 20-volt unit is complete in a neat carrying crate, the cells are completely sealed in with a centre tapping for 10 volts.

The capacity is 2,500 milli-ampere hours at very low discharge rates, which is ample for all ordinary wireless receiving sets.

For one or two valve sets where the H.T. current is small, the accumulator will last for many weeks before a re-charge is necessary, and when the set is standing idle the accumulator is not self-discharging.

Dimensions: 13½ins. long, 2½ins. wide, 5½ins. high.

Weight (including acid), 8½lbs. approx.

PRICE:

Excluding Acid **30/-** Per 20 volt unit.

Bottle of Acid of correct specific gravity for each 20 volt unit, as above, 1/6.

Carrying Crate for Four Units (80 volts), 10/-.

Smith, Sons & Rees Ltd.

30-32 Wentworth Avenue, Sydney.

And at Melbourne.

Also Corner Stewart St. and Hunter St. West, Newcastle, N.S.W.



A New Terror!

I was enjoying a haircut yesterday when something sat down on the chair next to me. Down each cheek it had a black strip of hair like the trickle from a tar barrel!

"When did it get loose?" I asked the barber. He chuckled. "Oh that's the new American style,—Valentino left it in his will!"

Now I understand what the Commission on the Movies means by "Americanisation." I'd clap a super-lap on every man caught!

The next thing will be a "Gostee,"—one of those tufted triangles on the chin which waggles as you talk and act as food traps.

And here's another terror,—the Phonofilm, which lets you hear the actors talk as the film runs through. Fancy hearing the sweet-faced heroine in the film, "Fynjans for Two," exclaiming tenderly:

"You Hollywood stiff, windyn shovin' for!"

And then listen in to the manly reply from the handsome hero:

"Fer-the-luvn'-Mike get off me chewin' gum!"

But I must put in a good word for this Phonofilm idea. When Lindbergh,—the young American who kept himself warm when hopping over the Atlantic with Balmam wool, invented by the Burgess people,—returned to Washington, he was hugged by everyone and welcomed by the President.

The Phonofilm shows the hugging and you can hear the President's address, Lindbergh's reply, and the nasal noises all around. Joking apart, it marked a new era for films.

And here is where Burgess Radio Batteries come into the picture. The whole electrical power employed was produced by these batteries, and they are standard equipment on all the reproducing amplifiers of the Phonofilm Company.

As this is my busy day, please save me writing another paragraph to tell you that these are the same batteries you buy in Australia, and that the Australian representatives are at 280 Castlereagh Street, Sydney, and answer to the name of New System Telephones Pty., Ltd.

Thanks!

Duet (Leonora, Phoenician):

"Oh, Beautiful Hour."

Finale—Chorus:

"Hail to the Day,"

The Whole Company:

"Ward Near Time Through Expresses All the Hours of the Day."

10.15 p.m.—"Argus" news service. Meteorological information. British official wireless news.

10.23 p.m.—JOE ARONSON AND HIS

SYNCRONIZING SYMPHONISTS will demonstrate how good music can be in:

"Blue Shoes" (Hector).

"No Blue" (De Birk).

"Lonely Acres in the West" (Robinson).

10.30 p.m.—ELIN THOMPSON, humorist, will give a sketch at the piano:

"The Playwright" and

"Robinson Calls His Taboo."

10.40 p.m.—JOE ARONSON AND HIS

SYNCRONIZING SYMPHONISTS:

"There Ain't No Days in My Baby's

Eyes" (Kaim),

"I've Got the Girl" (Donaldson),

"Swanky Lullaby" (Miller).

10.45 p.m.—Announcement. THE ROYAL

AUTOMOBILE CLUB OF VICTORIA'S

SAFETY MESSAGE for today is for

CHILDREN.—"Jack and Jill went up the

hill. Left safely for behind them. Jack

came down with a broken crown, and Jill

she never did find her."

10.54 p.m.—JOE ARONSON AND HIS

SYNCRONIZING SYMPHONISTS:

"The Bluebird" (Kern).

"Who" (Kern).

11 p.m.—OUR GREAT THOUGHT:

"There is a beautiful hardiness about soul

dignity that never dreads contact and

communion with others, however humble."

11.11 p.m.—JOE ARONSON AND HIS

SYNCRONIZING SYMPHONISTS:

"The Village Blacksmith Greets the Village

Men" (Moore).

"Whipped Cream"—Piano Solo (Lange).

"Take in the Sun, Hang Out the Moon"

(Woods).

"I've Been Wasting My Dreams"

(O'Hara).

"No Two, Ho Ho, Ho Ho" (Brown).

"Drifting and Dreaming" (West).

"In a Little Spanish Town" (Wayne).

"Go, Wash an Elephant if You Want to Do

something Big" (Tracy).

"Half a Moon is Better than No Moon"

(Reynolds).

"How Long Must I Wait for You" (Malle).

"Blue Foot" (Kirk).

"Just the Same" (Donaldson).

11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Wednesday.

EARLY MORNING SESSION—4.30 to 7 a.m.

MIDDAY SESSION—1 to 2 p.m.

AFTERNOON SESSION.

8.30 p.m.—Afternoon tea music from the lounge played by Hotel Capella Symphony Orchestra.

4.15 p.m.—Hearty Talk by Dorothy Webster;

and "Telegraph" news.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

8 p.m.—"Daily Standard" news; announcements.

8.15 p.m.—Lecturer: Reg. Week Talk.

"Buy and Its Home," Mr. A. A. Was (Director

of Boy's Work, Y.M.C.A.)

8.30 p.m.—"The Children's Hour"

Story by Miss Milla Dinklage.

7 p.m.—Special news service; market reports;

stock reports.

7.00 p.m.—Weather news; announcements.

7.15 p.m.—Standard time signal.

7.45 p.m.—Lecturer: A lecture arranged by the Queensland Agricultural High School and College.

NIGHT SESSION.

GYMPE NIGGER MINSTRELS.

To-night's programme will comprise the playing of a Nigger Minstrel entertainment which will be held in the Subscribers' Hall, Gympie, in connection with the "Come Back to Gympie" movement.

FROM GYMPIE:

8 p.m.—Nigger Minstrel entertainment.

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

news.

Close down.

6WF, PERTH.

Wednesday.

12.30 p.m.—Tune in.

12.35 p.m.—Special Local News Bulletin, compiled by courtesy of "The West Australian" Newspaper Coy.

Market Reports, supplied by the Western

Farmers' Limited.

Cables, supplied by arrangement with the

Australian Press Association.

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

1.15 p.m.—Weather news, supplied by the

Meteorological Bureau of Western Australia.

1.25 p.m.—Lunch-hour Concert, played from

Meena Music-room, Limited, Lyric House,

Sturay Street.

1.30 p.m.—Studio Quintette.

2 p.m.—Close down.

2.30 p.m.—Tune in.

2.45 p.m.—Special programme, including

platform selections by Miss Evelyn Willis,

A.R.C.M.

4 p.m.—Studio Instrumental Trio.

4.30 p.m.—Close down.

6.45 p.m.—Tune in.

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

Archie Macrae.

7.15 p.m.—The Leslie will talk to the Royal

7.20 p.m.—Stock and Share Intelligence.

Market Reports.

Cable News by courtesy of "The West Aus-

tralian" Newspaper Coy.

7.45 p.m.—Talk "Tropical Insects" (No. 2),

by Mr. Lawson Whitlock.

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

8.15 p.m.—Weather news, supplied by the

Meteorological Bureau of Western Australia.

RELAY CONCERT.

8.2 p.m.—A Concert with Instrumental and Vocal Items included, relayed from the Operatic's Music Warehouse, by courtesy of the management.

10 p.m.—Late News Desk, supplied by courtesy of the "Daily News" Newspaper Coy. Ships within range announcement.

Weather Report and Forecast.

10.30 p.m.—Close down.

7ZL, HOBART

Wednesday.

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes.

11.1 a.m.—Tune in selection.

11.5 a.m.—British Official Wireless news.

11.10 a.m.—"Mercury" news service.

11.20 a.m.—Shipping information. Ships

within Wireless range.

11.30 a.m.—Mail notices; commercial news;

housewives' guide.

11.45 a.m.—Sporting announcements.

11.50 a.m.—Musical selections.

11.58 a.m.—Tasmanian stations.

9 a.m. weather report.

12 noon.—G.P.O. Clock chimes.

Close down.

AFTERNOON SESSION.

1 p.m.—G.P.O. Clock chimes.
 2.1 p.m.—Tune in selection.
 2.5 p.m.—Hobart Stock Exchange quotations.
 Weather information. Items of interest.
 Announcements.
 3.13 p.m.—Radio Auction Bridge Game, No. 10
 4 p.m.—Social and Educational Calendar from
 Illustrated Tasmanian Mail.
 4.15 p.m.—Story from Illustrated Tasmanian
 Mail.
 4.30 p.m.—G.P.O. Clock chimes.

EARLY EVENING SESSION.

6.30 p.m.—"Uncle Peter's" half-hour.
 7 p.m.—Story from Illustrated Tasmanian
 Mail. Birthday Greetings.

NIGHT SESSION.

7.50 p.m.—Musical selection.
 7.55 p.m.—"News Bulletin" from the Depart-
 ment of Markets and Migration.
 7.59 p.m.—"Mercury" Special Tasmanian news
 service. Railway section. Produce sales.
 Weather forecasts. Hobart Stock Exchange
 quotations. Abattoirs and Stock Market
 reports, through the courtesy of Roberts and
 Co., Ltd.
 8 p.m.—G.P.O. Clock chimes.
 8.1 p.m.—Musical selections by T.Z.I. Studio
 Trio, interspersed with items from the
 Studio.

Miss Joan Hibbard, mezzo-soprano.
 Mrs. B. Saunders (pianist).
 Mr. George Muir, tenor.
 Mr. Hugh Taylor, electrician.

9.40 p.m.—British Official Wireless news.
 9.50 p.m.—"Mercury" special Interstate news
 service. Ships within Wireless range. Tas-
 manian district Weather reports. Station
 announcements. 9 p.m. weather forecasts.
 National Anthem.

Thurs., Sept. 15

2FC, SYDNEY

EARLY MORNING SESSION.

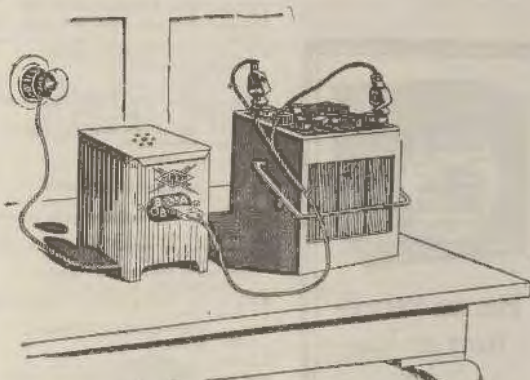
7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
 10.3 a.m.—Studio music.
 10.15 a.m.—"Sydney Morning Herald" news
 service.
 10.30 a.m.—Studio music.
 10.45 a.m.—A racing talk by the 2FC com-
 misioner.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben" Marching music for
 school children.
 11.5 a.m.—A.P.A. and Reuter's cable services.
 11.10 a.m.—Studio music.
 11.20 a.m.—A reading.
 11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.
 12.2 a.m.—Stock Exchange, first call.
 12.5 a.m.—Official weather forecast, rainfall,
 temperatures.
 12.6 p.m.—Studio music.
 12.10 p.m.—Summary of "Sydney Morning
 Herald" news service. Rugby wireless
 news.
 12.25 p.m.—Studio music.
 12.30 p.m.—Marching music for school chil-
 dren.
 12.40 p.m.—Fosse Brakell, contralto:
 "Still unexcited" (Gusko-Bond).
 12.45 p.m.—THE OAK HALL INSTRUMEN-
 TAL TRIO.
 12.55 p.m.—Studio music.
 1 p.m.—"Big Ben" Weather intelligence.
 1.5 p.m.—"Evening News" midday news ser-
 vice. Producers' Distributing Society's re-
 ports.



90 Per Cent.
Of Bad Reception is
due to BATTERY
TROUBLES.

90 Per Cent.
Of Battery Troubles
is due to FAULTY
Charging or Neglect.

The Colmovox Battery Charger will charge both A and B batteries. Is charged while you sleep, and it is absolutely guaranteed.

Colmovox Charger A and B Model, cash price, £6/10/.

Terms: 17/- deposit, and 14 weekly payments of 3/-.

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15/- deposit, and 14 weekly payments of 7/6.

Here is a list of parts suitable for building the short wave adaptor, as described in this issue:—

1 Panel Bakelite, 12 x 7 x 3-16, 7/-	1 Advance Porcelain Socket . . . 2/6
1 Pilot Kilograd Dial 6/0	1 Radiolok R.F. Choke 8/6
1 30 ohm De Jor Rheostat . . . 3/6	1 Panel, 5 x 4 x 1-8 1/4
1 Emmcostat 7/0	8 Bakelite Binding Posts . . . 2/-
1 Electrad Grid Condenser and Leak 4/6	1 Length Airzone Short Wave Coil 7/6
1 .00025 Emmco S.L.F. Con- denser 12/-	

In place of the Airzone low loss coils we can supply the slug assembly kit, as used in the three valve low loss receiver, as described in "Wireless Weekly," July 15th.

Price, £4/11/6, complete with short and long wave coils.

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Better reception at less cost

Columbia Heavy Duty "B" Batteries do two things—they last twice as long, under the same conditions, as light duty batteries and they greatly improve the reception.

For every hour of use you now get from your smaller batteries, you will get two from either the Columbia No. 4770 or the even more powerful, longer-lived Columbia Layerbilt No. 4486. You will get a clearer tone, greater volume and greater distance. For genuine economy and satisfaction, insist upon either one of these two batteries.

Columbia Radio Batteries

—they last longer

Factory Representatives: **EM**
ELLIS & Co. (Aust.) Ltd.
204-6 Clarence St. Sydney N.S.W.

- 1.28 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Fiona Drake, contralto:
"Requiem" (Homer).
1.45 p.m.—Radio music.
1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
1.55 p.m.—Last minute racing information by the ABC commentators.
2.2 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and programme announcements.
2.5 p.m.—A vocal recital by the pupils of Mr. William Dalson:
"The call of the Maytime" (Drake).
Kitty Travers.
2.7 p.m.—"Spring's awakening" (Sanderson).
Jean Elder.
2.11 p.m.—"Nigun's Song" (Thuman).
Mrs. A. Marie.
2.15 p.m.—A reading.
2.25 p.m.—"How lovely are thy dwellings" (Liddle).
Miss D. Woodhead.
2.30 p.m.—Marching music for school children.
2.40 p.m.—Ethel Muller, contralto:
"Dearie, I love the morning" (Wood).
(From Farmer's Tea Rooms).
2.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
2.52 p.m.—Scene—"Le Danque Vero"—"O Ma Vee-ander" (Doobald).
Clara Hill.
4 p.m.—Eileen Moreau, soprano:
"Thank God for a Garden" (Riebel).
4.5 p.m.—John B. Fitzer, baritone:
"A Harvest" (Liddle).
4.7 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.12 p.m.—Elsie Roling, contralto:
"The Greenest Moss" (Sanderson).
4.15 p.m.—Hilda Nelson, mezzo soprano:
"The Magic Song" (Logan).
4.20 p.m.—Ethel Müller, contralto:
"If any little song of mine" (Rüsch).
4.24 p.m.—John B. Fitzer, baritone:
"Lucina Cantata" (Tosci).
4.28 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.35 p.m.—Elsie Roling, contralto:
"Now sleeps the crimson petal" (Quilter).
4.40 p.m.—Eileen Moreau, soprano:
"Out of the Darkness" (d'Hardelot).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Hilda Nelson, mezzo soprano:
"Ave Marie" (Kahn).
4.50 p.m.—The Westworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—Programme announcements and the closing of BBC.
5.45 p.m.—"The 'Halls Man'" talks to the children.
6.30 p.m.—Story time for the young folk.
6.40 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.10 p.m.—Bazaar's market reports (wheat, wheat and stock).
7.15 p.m.—Fruit and vegetable markets.

- 7.28 p.m.—Weather and shipping news.
7.34 p.m.—"Evening News" late news service.
NIGHT SESSION.

- 7.35 p.m.—Programme announcements.
7.38 p.m.—A talk by a representative of the Country Women's Association.
7.45 p.m.—Hints to listeners by the technical editor of "Wireless Weekly."
8 p.m.—"Big Ben" Frank McEneaney, bass:
"Hot Brown Air" (Tomont).
8.4 p.m.—Alexander Sverenzky, pianoforte:
"Song of the Malay Fisherman."
"Bird of Paradise at a waterfall" (Niemann).
8.10 p.m.—Bessie Cooke, contralto, and Charles Stephens, tenor, will present the third of a series of concert recitals, giving items this evening representing the adventurous and the best in opera.
Miss Cooke will sing:
"Where now the Hesper glow" (Di Terenzi song) (Verdi).
"Avarice" (Carmen). (Bizet).
Mr. Stephens will give items from "La Bohème," "Faust," and "The Barber of Seville."
8.15 p.m.—Dagmar Thomson, violola:
"Romance from concerto" (Wieniawski).
8.22 p.m.—Frank McEneaney, bass:
"Out on the step" (Lohr).
8.24 p.m.—Alexander Sverenzky, pianoforte solo:
"The Indian Thermo."
"In the Chinese City" (Niemann).
8.42 p.m.—A few words on Author's Week.
8.45 p.m.—From Faldon's Concert Hall—A programme by the Sydney Madrigal Society.
Latest weather forecast at 8 p.m.
8.50 p.m.—J. R. Kingsmore (from the studio) in a short talk "Who's who among snakes."
9.00 p.m.—Frank McEneaney, bass:
"Benjo Benjo" (Homer).
"My old shako" (Troster).
9.05 p.m.—Alexander Sverenzky, pianoforte solo:
"Old Vienna" (Godevski).
"Lil's Rhapsody" (Lust).
9.46 p.m.—Bessie Cooke, contralto:
"The Einchanters" (Barton).
"Elegy" (Massenet).
9.52 p.m.—Dagmar Thomson, violinist:
"Orientale" (Cui).
"Variations" (Tartini-Kreutzer).
10 p.m.—"Big Ben." Charles Stephens, tenor.
10.5 p.m.—Mayo Hunter, instrumentalist, Radio items:
"His March."
"In a little Spanish town" (Wayne).
10.15 p.m.—Len Maurice, popular baritone.
10.22 p.m.—Mayo Hunter, banjo items:
"Moonlight in Kaha" (Kern).
"Blue Blues" (Destio).
10.28 p.m.—The Westworth Symphonic Dance Orchestra, under the baton of Cyril Kaye.
10.34 p.m.—Len Maurice, popular baritone.
10.38 p.m.—The Westworth Symphonic Dance Orchestra.
10.45 p.m.—Mayo Hunter, banjo item:
"Honiola Maoh" (Lawrence).
10.48 p.m.—The Westworth Symphonic Dance Orchestra.
10.57 p.m.—Late news and announcements.
11 p.m.—"Big Ben" and items by the Westworth Symphonic Dance Orchestra.
11.10 p.m.—Len Maurice, popular baritone.
11.14 p.m.—The Westworth Symphonic Dance Orchestra will play until 11.30 p.m.
11.20 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

Thursday

EARLY MORNING SESSION.—7 to 8 a.m.

MORNING SESSION.

- 10.20 a.m.—G.P.O. Clock and Chimes.
Musical programme from Studio.
10.40 a.m.—News from the "Daily Telegraph Pictorial."
10.50 a.m.—Musical programme from the Studio.
11 a.m.—G.P.O. Clock and Chimes.
Announcements.
11.5 a.m.—Musical programme from the Studio.
11.15 a.m.—Social Notes: Replies to correspondents, by Mrs. Jordan.
Talk on "Period Furniture," by Mrs. Jordan.
12 noon.—G.P.O. Clock and Chimes.
Special Ocean Forecast and Weather Report.
12.3 p.m.—Brunswick Fanstropes Musical Recital.
12.15 p.m.—Information: Mails, Shipping, and Port Directory.
12.25 p.m.—Boats in call by wireless.
12.30 p.m.—Fruit Market Report.
12.32 p.m.—Vegetable Market Report.
12.34 p.m.—London Metal Market Report.
12.26 p.m.—Dairy and Farm Produce Market Report.
12.30 p.m.—G.P.O. Clock and Chimes.
Forex Market Report.
12.32 p.m.—Fish Market Report.
12.34 p.m.—Rabbit Market Report.
12.35 p.m.—News from the "Sun."
12.45 p.m.—Hillier's Instrumental Quartette: direction, Caryl Castling.
1.00 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.
Musical programme from the Studio.
3.10 p.m.—News from the "Sun."
3.20 p.m.—Musical programme from the Studio.
3.30 p.m.—News from the "Sun."
3.40 p.m.—Dungowan Dance Band, broadcast from the Dungowan Calaret.
4 p.m.—G.P.O. Clock and Chimes.
News from the "Sun."
4.15 p.m.—Serial Story.
4.20 p.m.—Dungowan Dance Band.
4.50 p.m.—News from the "Sun."
4.55 p.m.—Resume of night's programme.
4.58 p.m.—Special Ocean Forecast.
5 p.m.—G.P.O. Clock and Chimes.
Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chimes.
Children's Session.
8 p.m.—The pupils of Miss Monica Seully will entertain the children.
8.30 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 9 p.m.—G.P.O. Clock and Chimes.
Australian Mercantile, Land and Finance Co.'s Report.
Weather Report and Forecast, by courtesy of (priv.) Meteorologist.
Producers' Distributing Society's Fruit and Vegetable Market Report.
Stock Exchange Reports.
Grain and Fodder Report ("Sun").
Fairy Produce Report ("Sun").
Weekly Traffic Bulletin.
7.15 p.m.—Country News from the "Sun."
7.20 p.m.—Talk by a member of the Country Women's Association.
7.25 p.m.—Talk on "Eugene O'Neill (Distin-guished American Playwright)," by Mr. Rupert Markham, B.E.
7.45 p.m.—Talk on "Australian Moving Picture Production," by Mr. Palmer.

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EVENING SESSION.

- 8 p.m.—P.P.O. Clock and Chimes.
"Broadcasters' Typical Chorus."
9.5 p.m.—As All Australian Concert, conducted by the Writers and Composers' Association of N.E.W., in conjunction with Australian Authors' Week. The Concert will be broadcast from the Turner Hall, Technical College.
10.15 p.m.—Gen. Macdonald and his Band, broadcast from the Ballroom of the Bondi Casino.
11 p.m.—P.P.O. Clock and Chimes.
National Anthem.

2UW, SYDNEY

Thursday.

- 8 p.m.—News, shipping, mail, musical items.
8.45 a.m.—Austin Pines talk for Women.
9.15 a.m.—Resume of day's programme.
10 a.m.—Close down.
2 p.m.—Study Items.
2.55 p.m.—Resume of evening programme.
6 p.m.—Close down.
6.55 p.m.—Resume of evening programme.
8 p.m.—Close down.
7 p.m.—Where to Go.
7.10 p.m.—Musical Items.
8 p.m.—Mr. George F. Manuel, tenor;
"Elegie" (Mozart).
8.4 p.m.—Lionel Handley;
Pianoforte solo, "The Broken Melody" (Van Alben).
8.8 p.m.—Mr. George F. Manuel, tenor:
(a) "Spirito Gentil" (Donizetti);
(b) "Oleki Aida" (Verdi).
8.15 p.m.—Selections from the Studio.
9.25 p.m.—Lionel Handley, pianoforte solo.
9.41 p.m.—Studio selection.
9.50 p.m.—Lionel Handley;
Pianoforte solo, "Valses Op. 18, No. 2" (Chopin).
9.41 p.m.—George F. Manuel, tenor;
"Rosa" (Tosti).
9.45 p.m.—Lionel Handley, pianoforte solo.
9 p.m.—Miss Gladys Ross, soprano.
9.15 p.m.—Studio items.
9.28 p.m.—Resume of forward programme.
9.55 p.m.—Close down.

3LO, MELBOURNE.

Thursday.

MIDDAY SESSION.

- 12 noon—Time signal. Metal prices received by the Australian Mines and Metals Association from London Stock Exchange this day. Beiler's and The Australian Pines Association cables. British Official Wireless news from Rugby. "Argus" news service.
12.10 p.m.—Under the auspices of the Concert-Organ and Community Singers' Association—COMMUNITY SINGING, transmitted from the Assembly Hall, Collins Street, Melbourne.
1.45 p.m.—Stock Exchange information. Weather forecasts for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River report. Rainfall for Victoria, Tasmania, South Australia and New South Wales.
2 p.m.—Close down.
2.50 p.m.—Musical programme from Messrs. Allen and Co.'s stand at the Royal Agricultural Show Ground.
BOB MOLYNEUX;
"At Sandown."
TAY BIRRI;
Piano solos.
JACK O'HAGAN;
Song, "If You See Sally."
FRANCES LEA;
Song, "Fisher's Release."
BOB MOLYNEUX and JACK O'HAGAN.
Selected.

AFTERNOON SESSION.

- EDUCATIONAL HOUR
5 p.m.—REV. KENNETH HENDERSON will keep you up to date with a short talk on "The Top of the Week."
5.15 p.m.—MR. WM. G. JAMES has a few words to say about
"Australian Music."
5.30 p.m.—MR. J. HOWLETT ROSS;
"John Pascoe Fawkner."
5.45 p.m.—STUDIO QUARTET;
"Aborigine Suite" (Loane).
5.55 p.m.—JAMES BILEY, tenor;
"Jennie" (Harry).
"Agnes Del" (Holt).
6.2 p.m.—REGINALD BRADLEY, violin;
"Elovia Suite in E Minor" (Dvorak-Kresler).
"Lento" (Mozart-Kowalek).
6.12 p.m.—ERIN TROTMAN, comedienne;
"Bullfight on Grand Opera."
6.19 p.m.—STATION TRIO;
Selection, "Bohemian Girl" (Raffa).
6.45 p.m.—"Herald" news service. Stock Exchange information.
6.45 p.m.—EVENING, transmitted from St. Paul's Cathedral.
6.50 p.m.—Special racing information. Acceptances for Saturday's races at Menzies.

EVENING SESSION.

CHILDREN'S HOUR.

- 5.35 p.m.—"MARY GUMLEAF" will congratulate her young friends on being one year taller.
6.0 p.m.—ELSIE BRADSHAW will sing songs of happy childhood.
6.11 p.m.—"MARY GUMLEAF" poems;
"Seaside."
"What Children Can Do."
Story for the Hilbert room;
"The Fluffy Duck."
And now something for the older children:
"A Talk about Handwriting."
6.50 p.m.—ELSIE BRADSHAW will sing more songs of childhood.
6.55 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
6.52 p.m.—Stock Exchange information.
6.58 p.m.—Fish Market reports by J. R. Bennett, Ltd. Rabbit prices.
7.3 p.m.—Market reports by the Victorian Producers' Co-operative Co. Ltd.—Foultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.
7.4 p.m.—Market reports of Fruit by the Victorian Fruitgrowers' Association.

NIGHT SESSION.

- 7.15 p.m.—MR. A. W. JACKSON will speak on "G.M."
7.30 p.m.—MR. H. SCHWEGER will speak a few words from the Royal Agricultural Show Grounds about the exhibits.
7.45 p.m.—MISS REPPLE de VRIES, now appearing in "Madame's Favourite" at His Majesty's Theatre, will speak to you from her dressing-room, by permission of J. C. Williamson, Ltd.
8 p.m.—MR. BOB McDERMOT will speak about "Football."
8.10 p.m.—JOE ARONSON and HIS SYMPHONIC SYMPHONISTS;
"Dance of the Ash" (Ash).
"I Wonder How I Look When I'm Asleep" (Henderson).
"A Lull in Spain" (Lewis).
8.20 p.m.—ERIN TROTMAN, comedienne;
"Gris-Asorted."
8.20 p.m.—JOE ARONSON and HIS SYMPHONIC SYMPHONISTS;
"Shepherd of the Hills" (Nichols).
"I've Never Seen a Strain Dancer" (Waite).
"Perhaps You'll Think of Me" (Stone).
8.30 p.m.—WENGLING and MOLLOY;
"Blue Danube Blues."
8.45 p.m.—JOE ARONSON and HIS SYMPHONIC SYMPHONISTS;
"There Ain't no Maybe in My Baby's Eyes" (Kahn).
"Doll Dance," piano solo (Brown).
"The Animal Fair" (La Forreux).

8.53 p.m.—WALTER CHAMPNEY, assisted

by EILEEN GILBERT.

"I've Got a Lot of Love for You."

8.57 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"I Can't Forget" (Currick).

"Oh, What a Pal was Whoozie" (Egna).

"Paradise Alley" (Archer).

9.7 p.m.—JAMES RILEY, tenor:

"Adoration" (Tolma).

9.11 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"While the Years Go Drifting By."

(Kahn).

"At Sundown" (Donaldson).

"Disraeli Desmond" (Eilet).

9.21 p.m.—DONALD McKEATH, violin:

"Minuet in G" (Beethoven).

"Bomance in G" (Beethoven).

"Rondino" (Beethoven).

9.31 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"Forgotten" (Hagman).

"If You See Sally" (Kahn).

"All I Want is You" (Clare).

9.41 p.m.—Announcements.

THE ROYAL AUTOMOBILE CLUB OF

VICTORIA'S SAFETY MESSAGE FOR

TU-DAY is for EVERYBODY:

"One Man's efforts toward safety may be

small, but all together we can do a great

deal."

9.46 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"Somewhere Somebody is Waiting for You"

(Allet).

"The More We Are Together" (Campbell).

"I'm Looking Over a Four-Leaf Clover"

(Dixon-Davis).

NIGHT SESSION.

9.55 p.m.—BERYL HAYDEN AND ROY

GALLOWAY:

Duet, "Conversation at a Dance Hall."

9.59 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"Cover Me With Sunshine" (Dixon-Davis).

"Where Do You Work, John?" (Marks).

"Do the Black Bottom With Me" (Meyer).

10.9 p.m.—"Argus" News Service: Meteorol-

ogical Information; Sporting Notes by

"Olympus"; British Official Wireless News

from Rugby.

10.20 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"Whistle Your Blues Away" (Meyer).

"Falling in Love With You" (Meyer).

"Moonbeam, Kiss Her for Me."

10.30 p.m.—WALTER CHAMPNEY, assisted

by EILEEN GILBERT:

"Hear the Kestrel Sand Flay Dizin"

10.36 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"Ain't She Sweet?" (Yellen).

"Take In the Sun, Hang Out the Moon"

(Woods).

"Nay, Nay, Neighbour" (Costlow).

10.44 p.m.—JAMES RILEY, Tenor.

"Sougs of Araby" (Clay).

10.48 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"Meadow Lark" (Florito).

"Girl of Yesterday" (Lawrence).

"Sam the Old Accordion Man" (Kahn).

10.59 p.m.—OUR GREAT THOUGHT FOR

TO-NIGHT IS:

"There are cases in which a man would

be advanced not to have been imposed upon.

There is a confidence necessary in human

intercourse, and without which men are

often more injured by their own suspicions

than they would be by the perfidy of others."

—Burke.

11.9 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS.

11.40 p.m.—GOD SAVE THE KING.

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ISW9	40	80	12	6	10	0	
ISW11	50	100	12	0	10	6	
ISW13	60	120	12	0	21	0	
ISW17	90	180	22	0	24	0	
ISW21	140	280	20	3	19	0	

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4QG, BRISBANE.

Thursday.

MIDDAY SESSION.—1 to 2 p.m.

AFTERNOON SESSION.

3.30 p.m.—A programme of music by the Studio Orchestra, including—March characteristically in Old Kentucky" (Hills); waltz, "Zetana" (Arnold); ten minutes of business by the Mahoney Duo; intermezzo, "Laughing Grass" (Gibbet); soprano solo selected, Mrs. Inuit Bell; "Bacchante"—The Evening Hours; (Kusner); one-act, "Onion" (Powers); dance, "Caroline Revels" (Cobbi); contralto solo, selected, Miss Alice Raven; march, "Hattlesnap" (van der Meulen).

4 p.m.—A Croquet Talk, by "Star Simpson."

4.15 p.m.—"The Telegraph" news.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—"Daily Standard" news; announcements.

8.15 p.m.—Boys' Week Talk, "The Boy and His Sport," by Mr. A. A. Way (Boys' Work Director, Y.M.C.A.).

6.30 p.m.—The Children's Session:

6.45 p.m.—Special news service; market reports; stock reports.

7.30 p.m.—Weather news; announcements.

7.45 p.m.—Standard time signal.

7.45 p.m.—Lectures, "Talk on Poets," by Mr. W. A. Benben (McLoud's).

NIGHT SESSION.

THE CURELW TROUBADOURS.

Tonight's programme will be provided by the Curelwe Troubadours (conductor, Mr. Reg. Yantson).

FROM THE STUDIO:

8 p.m.—Male chorus, "The Viking's Song" (Colbridge-Taylor), the Troubadours; tenor solo, "My Own Gilding Star" (Boasford), Mr. A. Smith; reverie, "Dusky Words" (Moore), the Troubadour Instrumental Quartet; vocal duet, "Flow, Gently Flow" (Perry), Messrs. Koll and Pike; part song, "The Thuringian Valkyrie," the Troubadours; pianoforte solo, "Liebestraum" (Liszt), Miss Elsie Yorston; baritone solo, "Cobbler's Song" (from "Chu Chin Chow"), Mr. D. M. Stevens; music obscure, "Full Pattern Five" (Fushill), the Troubadours; tenor solo, "Dream Once Again" (Squires), Mr. C. T. Birkbeck; selection, "Plantation Melodies"—"Rehens from the South" (Klehr), Troubadour Instrumentalists; humorous items, "Paper Bag Cookery" (Pether), Mr. E. Kenyon (the entertainer); male part-song, "They Skipped I Saw Them Do It" (Hawley), the Troubadours.

9 p.m.—Metropolitan weather forecast; march, "Fyrlan" (Kerrison), Troubadour Instrumentalists; tenor solo, "The Lick Divine" (Fleischmann), Mr. A. Smith; male part-song, "Over the Fields at Early Morn," the Troubadours; pianoforte solo, "Op. 36—Waltz in A-flat" (Chopin), Miss Elsie Yorston; male part-song, "The Three Chaffers," the Troubadours; vocal duet, "Tender and Baritone" (Messrs. Koll and Pike), characteristic, "Love's Answer" (Hera), Troubadour Instrumentalists; baritone solo, "There's a Land" (Allitt), Mr. T. Griffiths; descriptive chorus, "Spartan Heroes" (Protheroe), the Troubadours; tenor solo, "Love is Waiting" (Squire), Mr. C. T. Birkbeck; value, "Melodist from The Hunking Girl" (Rubens), Troubadours; male part-song, "Laughing" (Ah), the Troubadours; baritone solo, "Love's Garden of Roses" (Hardy-Wood), Mr. D. M. Stevens; humorous item, "This Time Last Year" (David-Jodrey), Mr. E. Kenyon (the entertainer); finale, "A Lullaby" (J. Brahms), the Troubadours.

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

Close down.

7ZL, HOBART

Thursday.

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes.

11.15 a.m.—Tune in selection.

11.30 a.m.—British Official Wireless News.

11.45 a.m.—"Mercury" news service.

11.55 a.m.—Shipping information. Ships within wireless range.

12.30 a.m.—Mail notices. Commercial news. Foreign exchange market. Hulsewicks guide.

11.45 a.m.—Musical selections.

11.55 a.m.—Transmission stations & a.m. weather report.

12 noon—G.P.O. Clock chimes.

Close down.

AFTERNOON SESSION.

2 p.m.—G.P.O. Clock and chimes.

3.1 p.m.—Tune in selection.

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

Items of interest; announcements.

3.15 p.m.—Selections by 7ZL Studio Trio.

4.15 p.m.—Chat by Child Welfare News.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

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

7 p.m.—"Uncle Peter" half hour.

NIGHT SESSION.

7.30 p.m.—Musical selection.

7.55 p.m.—The Photographic Corner, "A trip through an American Photographic Factory," by Mr. C. Sims, Manager of Kodak Ltd. Hobart.

7.40 p.m.—"Mercury" special Tasmanian news service. Railway section producer sales. Weather forecasts. Hobart Stock Exchange quotations.

8 p.m.—G.P.O. Clock chimes.

8.1 p.m.—Selections by Hobart Citizens Band (conductor Mr. L. M. Barrett).

8.45 p.m.—British Official Wireless news.

8.50 p.m.—"Mercury" special Tasmanian news service. Ships within wireless range. Tasmanian District Weather reports. Station announcements. 7 p.m. Weather forecasts. National Anthem.

Friday, Sept. 16

2FC, SYDNEY.

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

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.

10.15 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." Marching music for school children.

11.5 a.m.—A.P.A. and Retiree's cable services.

11.20 a.m.—Studio music.

11.35 a.m.—A talk on home cooking and recipes by Miss Ruth Ford.

11.50 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.

12.2 p.m.—Stock Exchange, first call.

12.3 p.m.—Official weather forecast, rainfall.

12.5 p.m.—Studio music.

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

12.25 p.m.—Studio music.

12.35 p.m.—Marching music for school children.

12.40 p.m.—Doris Cremanan, contralto.

"Tems" (Rasbuck) (by special request).

12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 12.55 p.m.—Studio music.
 1 p.m.—"Big Ben." Weather Intelligence.
 1.3 p.m.—"Evening News" midday news service. Producers' Distributing Society's review.
 1.35 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 1.23 p.m.—Stock Exchange, second call.
 1.38 p.m.—Marching music for school children.
 1.46 p.m.—Doris Crossman, contralto: "Bills of Rectory" (Lohr).
 1.48 p.m.—Studio music.
 1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

2 p.m.—"Big Ben" and announcements.
 2.5 p.m.—Kathleen Colls, mezzo: "A Bowl of Roses" (Clarke).
 3.7 p.m.—Studio music.
 3.15 p.m.—A reading.
 3.29 p.m.—Marching music for school children.
 3.40 p.m.—Frank Botham, baritone (from Farmer's Tea Rooms): "Bills of Rectory" (Sanderson).
 3.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 3.55 p.m.—Annie Payne, mezzo: "The Swallows" (Cowen).
 4 p.m.—"Big Ben." Gladys Aubin, soprano: "The Pipes of Pan" (Monckton).
 4.5 p.m.—Studio music.
 4.10 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 4.15 p.m.—Netta Mullerkey, mezzo: "Here's to Love" (Robens).
 4.29 p.m.—Frank Botham, baritone: "Give a man a horse he can ride" (O'Hara).
 4.34 p.m.—Kathleen Colls, mezzo: "Mighty Hiss a Rose" (Nevis).
 4.38 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
 4.35 p.m.—Annie Payne, mezzo: "Goin' thro' the Rye" (Old Scotch).
 4.43 p.m.—Gladys Aubin, soprano: "At My Window" (Parker).
 4.45 p.m.—Stock Exchange, third call.
 4.47 p.m.—Netta Mullerkey, mezzo: "The Sweetest Flower" (Hawley).
 4.54 p.m.—The Wentworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
 6 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.45 a.m.—The Chimes of 2FC.
 4.45 a.m.—The "Hello Man" Talks to the Children.
 6.30 p.m.—Story Time for the Young Folk.
 6.46 p.m.—Dinner Music.
 7.0 p.m.—"Big Ben." Latest Sporting Information by the 2FC Racing Commissioner.
 7.10 p.m.—Dalgey's Market Reports (Wool, Wheat and Stock).
 7.15 p.m.—Fruit and Vegetable Markets.
 7.20 p.m.—Weather and Shipping News.
 7.25 p.m.—"Evening News" Late News Service.

NIGHT SESSION.

7.40 p.m.—Programme Announcements.
 7.45 p.m.—Under the Auspices of the Australian Examination Board, a lecture on Elocution by Mr. Walter Hunt.
 8.0 p.m.—"Big Ben." The Crystal Palace Theatre Orchestra, under the baton of Mr. Harry Stone.
 8.20 p.m.—Raymond Ellis, English Baritone, in Operatic Numbers.
 8.32 p.m.—A Bridge Talk by Mr. Graham Kent.
 8.45 p.m.—Charles Lawrence, Entertainer: "Thoughts" (Grey).
 8.50 p.m.—Cyril Meak, Violinist.
 8.6 p.m.—"Big Ben." Latest Weather Forecast: Win and Windle, English Entertainers.
 9.5 p.m.—The Crystal Palace Theatre, conducted by Mr. Harry Stone.
 9.15 p.m.—Raymond Ellis, Operatic Baritone.

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For Service—Sydney

Announcement

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2. Usual tone frequency range, 60/5000 cycles.
3. Allowable current on each winding, 10 mill-amperes.
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6. D.C. Resistance of windings:
Primary, 1000 ohms. (approx.)
Secondary, 5500 ohms. (approx.)
7. Primary and secondary wound with No. 40 enamel-covered copper wire.

Obtainable from all Reputable Radio Dealers.

SOLE AUSTRALASIAN AGENTS:

Fox & MacGillycuddy Ltd.

Daily Telegraph Buildings, King Street

- 9.22 p.m.—I Talk on Antlons' Week.
9.25 p.m.—Harrison White, Barjo Solo.
9.48 p.m.—Win and Windie, English Entertainers.
9.48 p.m.—Orry Monk, Violinist.
9.57 p.m.—Charles Lawrence, Entertainer:
(a) "A Canned Cinema Play" (Kent).
(b) "Public Conversations" (Leg).
10.15 p.m.—The Crystal Palace Theatre Orchestra, under the baton of Mr. Barry Brown.
10.14 p.m.—Win and Windie, Entertainers.
10.14 p.m.—Harrison White, Barjo Solo.
10.25 p.m.—The Crystal Palace Theatre Orchestra.
10.30 p.m.—The Westworth Symphonic Dance Orchestra, conducted by Mr. Cyril Kaye.
10.40 p.m.—Harrison White, Barjo Solo.
10.45 p.m.—The Westworth Symphonic Dance Orchestra.
10.47 p.m.—Late News and Announcements.
11.0 p.m.—"His Box" The Westworth Symphonic Dance Orchestra, conducted by Mr. Cyril Kaye.
Intervals at the Westworth filled by special items from the studio.
11.30 p.m.—National Anthem; Close Down.

3LO, MELBOURNE

Friday

MIDDAY SESSION.

- 12 noon—Time signal. Metal prices received by The Australian Press Association from the London Stock Exchange this day. Brief: official wireless news from Rugby. Reuters and The Australian Press Association cables. "Argus" news service.
12.20 p.m.—WENDLING AND MOLLOY, Entertainers:
"Walks Walks."
12.30 p.m.—STUDIO QUARTETTE:
Martha; "Solitaire" (Cassidy Gail).
12.44 p.m.—Stock Exchange information.
"A L'Ombre" (Gobhard).
12.45 p.m.—BETHIA JORGENSEN, violin:
"The Chairman's Remarks."
"Easy Taking the Cross."
12.55 p.m.—STATION TRIO:
"Tramways" (Schumann).
"Attended" (Schumann).
1 p.m.—Time signal.
1.1 p.m.—STATION TRIO:
"The Last Lullaby" (Baron).
1.7 p.m.—Meteorological information.
Weather forecasts for Victoria, Tasmania, South Australia and New South Wales-Ocean forecast. River reports for Victoria, Tasmania, South Australia, and New South Wales.
1.15 p.m.—WALTER CHAMFNEY, assisted by KILEEN GILBERT:
"What Will They Say in Whoop Whoop?"
"The Lovers of Lill Old Blar-raised House."
1.25 p.m.—AGNES FORTONE, Piano,
BETHIA JORGENSEN, violin.
Bonnie Mc. & Fay L. (Newhaven).
1.35 p.m.—JAMES RILEY, tenor:
"Ave Maria" (Kahn).
"Mother G' Mine" (Toon).
1.45 p.m.—STUDIO QUARTETTE:
"Schwanenlied" (Borovik-Korvaker).
1.52 p.m.—BEHAL HAYDEN, Comedienne:
"Dances in the Air."
"Tommy Boy."
2 p.m.—Close down.
2.30 p.m.—Musical programme from Messrs. Allen and Co.'s stand at the Royal Agricultural Show Ground.
Soloists:
BOB MOLYNEUX:
"Song of the Wanderer."
Pianist—TAX EDEL.
JACK HAGAN:
"Sweetie G' Mine."
FRANCES LILA:
"Solitaire."
BOB MOLYNEUX AND JACK HAGAN Soloists.

AFTERNOON SESSION.

- 3 p.m.—STUDIO QUARTETTE:
"Carols March" (Birt).
"Festive March" (Sizem).
1.10 p.m.—MISS FRANCES FRASER will give Brunton Stephen's account of what life was like in the days when the broad arrow met its shadow over Australia, and of how it felt to be a "Convict Once."
1.25 p.m.—TASMA TIERNAN, cellist:
"Chant sans Paroles" (Tchaikowsky).
1.31 p.m.—JAMES KILEY, tenor:
"Beyond the Veil" (Russell).
"The Star" (Rogers).
1.32 p.m.—Recital of Music, by Australian Composers—arranged by WILLIAM G. JAMES, assisted by
MILIE SAFFO AINAV.
MR. REGINALD BRADLEY.
THE STUDIO QUARTETTE.
4 p.m.—STATION TRIO:
Selected from Radio's Works.
4.10 p.m.—ROY GALLOWAY, baritone:
"A Song of Thanksgiving."
"A Sailor's Grave."
4.17 p.m.—REGINALD BRADLEY, violin:
"Mendelssohn Concerto—Andante."
4.27 p.m.—MRS. M. CALLAWAY MAHOOD:
"The Art of Denotation."
4.45 p.m.—"Herald" news service. Stock Exchange Information.
5 p.m.—Close down.

EVENING SESSION.

CHILDREN'S HOUR.

- 5.30 p.m.—"BILLY BUNNY" will say "Many Happy Returns" and "Thank you for your nice letters, Boys and Girls."
6 p.m.—CLIFFORD BRADSHAW will sing to us the hosties that live in the forests.
6.7 p.m.—"BILLY BUNNY":
"Tell-me-why Stories about Animals."
6.17 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY is for EVERYONE:
"Always look both ways before crossing. Don't suddenly step off the footway without being told, and wish your back to oncoming traffic."
6.18 p.m.—CLIFFORD BRADSHAW will sing you more songs of the forest creatures.
6.25 p.m.—"BILLY BUNNY" will commence a story:
"The Story of the Treasure Seekers."
6.40 p.m.—"Herald" news service. Weather forecasts. Shipping movements.
6.47 p.m.—Stock Exchange Information.
6.52 p.m.—Fish market reports by J. R. Borett Ltd. Rabbit prices.
6.55 p.m.—River reports.
6.58 p.m.—Newmarket sheep sales by the Associated Stock and Station Agents, Bourke street, Melbourne. Market reports by the Victorian Producers' Co-operative Company Ltd. Poultry, grain, hay, straw, furs, dairy produce, potatoes and onions.
7.12 p.m.—Market reports of fruit by the Victorian Fruitgrowers' Association.

NIGHT SESSION.

- 7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MR. S. A. CUCK, (Agriculturalist, will instruct you in the culture of that Food of the Gods—"The Naval Orange."
And—don't forget—"One a day keeps the doctor away."
7.33 p.m.—ROLLINGWOOD CITIZENS' BAND:
March, "King Coppin."
Overture, "The Barber of Seville."
7.40 p.m.—WENDLING AND MOLLOY, Banjoists:
"Ten Thousand Years from Now."
"Cock-a-doodle—I'm off My Noodle."
7.50 p.m.—MR. H. K. LOVE will be glad to attend to your wireless difficulties, and we ask you to write to him for any advice that you may require. He will now give his usual talk:
"Technicalities."
8 p.m.—ROLLINGWOOD CITIZENS' BAND:
Waltz, "Dreams on the Ocean."
8.10 p.m.—GRACE JACKSON, contralto:
"Ode on Hope."
"Keep on Hopin'" (Maxwell).

BE CAUTIOUS!

Don't buy your components where you cannot obtain correct advice. Our components and advice always lead to perfect satisfaction. We only supply parts we are sure will deliver the goods. Our reputation has been built on these principles.

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Lindbergh Seen and Heard Through Burgess Batteries

Phonofilm Triumph

WHEN Lindbergh, Lone Wolf of the Atlantic, reached Washington on his return, President Coolidge honored him in the Nation's name. That scene of magnificent enthusiasm was also made memorable by another great exploit.

Phonofilms were taken and hurried away to the leading cities. Within 24 hours millions of Americans saw and heard the tumultuous welcome, the President's speech, and Lindbergh's reply!

That remarkable manifestation of modern science owed the completeness of its success to the use of Burgess Radio Batteries, which supplied the electrical power. These batteries are now used in all Phonofilm reproducing amplifiers.

NOTE. When Lindbergh ended his long cold flight to Paris, he carried back that the "balsam wool," a product of the Burgess laboratories, had kept him so warm that he was forced to open a window!

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BURGESS RADIO BATTERIES

8.17 p.m.—COLLINGWOOD CITIZENS' BAND:

Cornet Solo—"Love's Old Sweet Song."
(Holds: W. W. SIMMONS).

8.35 p.m.—ERN TROTMAN, humorist:

"Limericks" (Original).
"The Presentation of Prizes" (Murdoch).
8.51 p.m.—DONALD M. MEEATH, violin recital.
"Love Song" (Sammartini).
"Capriccio" (Haydn).

8.52 p.m.—MR. C. J. WILLIAMS will whet the appetite of old and young—not omitting the ladies—for the Olympian struggle at the Stadium to-morrow night.

8.52 p.m.—COLLINGWOOD CITIZENS' BAND:

Fantasia, "Smitty in the Wood."
Gigue, "Sunflower."

9.2 p.m.—COLLINGWOOD CITIZENS' BAND:

Grand Selection—"Le Sautamboul."

9.3 p.m.—MELBOURNE CHORAL UNION:

Two Irish Aires—"The Minstrel Boy."

"The Harp That Once."

Fair Song, "Love" (Bridge).

9.10 p.m.—MR. H. E. BOWLER will speak to you from the ROYAL AGRICULTURAL SHOW GROUNDS.

9.28 p.m.—COLLINGWOOD CITIZENS' BAND:

Selection, "Buccarello" (Suppe).

9.39 p.m.—MELBOURNE CHORAL UNION:

Excerpts from "Carmen," arranged by Maurice Strakos.

9.48 p.m.—"CARDIGAN," Mr. H. A. Wolfe, Sporting Editor of the "Argus" and "Australasian," will present to you the professional prognostications of "Pegasus" at to-morrow's races.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY is FOR EVERYONE:

"Always look both ways before crossing. Don't suddenly step off the footway without looking and with your back to oncoming traffic."

9.50 p.m.—JOE ARONSON AND HIS SYM-COPATING SYMPHONISTS—and the pomp of gorgeous notes—

"The Day" (Rachin).

"Sam the Old Accordion Man" (Donaldson).

"The Move We are Together" (Campbell).

10.6 p.m.—GRACE JACKSON, contralto:

"Christina's Lament" (Dvorak).

"The Little Hills" (Horace Grierson).

10.13 p.m.—"Argus" news service, British official Wireless news from Rugby.

10.20 p.m.—COLLINGWOOD CITIZENS' BAND:

Waltz, "Thine" (Tosti).

10.27 p.m.—GILBERT AND CHAMPNEY:

"Whoops-a-daisy."

Duet, "My Sunshine Jane."

10.37 p.m.—Road Notes and announcements.

10.40 p.m.—JOE ARONSON AND HIS SYM-COPATING SYMPHONISTS:

"Sunday" (Killey).

"Let's All Hurray Ford" (Ross).

10.54 p.m.—ERN TROTMAN: (Hindertson).

"The Original Back Bottom" (Hindertson).

"The Village Concert" (ist piano).

11 p.m.—OUR GREAT THOUGHT:

"He only is advancing to his whose heart is getting softer, whose blood warmer, whose brain quicker, whose spirit is entering into living peace."—Rushkin.

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

"I Didn't Know" (Swift).

"Ruffenreddy" (Bazin).

"Perhaps You'll Think of Me" (Shone).

"Muddy Water" (De Rose).

"Cassile" (Sherman).

"I'm on My Way Home" (Berlioz).

"Chinese Moon" (Nimbaum).

"Because I Love You" (Berlioz).

"For My Sweetheart" (O'Hagan).

"Forgotten" (O'Hagan).

"If You See Sally" (Kahn).

"Just a Bird's Eye View" (Donaldson).

"Brown Eyes in Your Dream" (Tourent).

"Hello, Blackbird" (Friend).

11.40 p.m.—GOD SAVE THE KING.

Saturday Sept. 17

2FC, SYDNEY.

EARLY MORNING SESSION.

7 a.m. to 9 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
 10.5 a.m.—Studio music.
 10.15 a.m.—"Sydney Morning Herald" news service.
 10.30 a.m.—Studio music.
 10.35 a.m.—A talk by the 2FC racing commentator.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben." Studio music.
 11.5 a.m.—A.P.A. and Renter's cable services.
 11.10 a.m.—Studio music.
 11.15 a.m.—A talk on gardening by Mr. G. J. Lockley ("Rodrum").
 11.30 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

- 12 noon—"Big Ben" and announcements.
 12.5 p.m.—Stock Exchange, first call.
 1.3 p.m.—Studio music.
 11.20 p.m.—"Sydney Morning Herald" news service, Rugby wireless news.
 12.35 p.m.—Studio music.
 Note.—The 2FC racing commissioner will describe in the running the events of the Rosehill Racing Club's meeting.
 1.3 p.m.—"Big Ben." Weather intelligence.
 1.35 p.m.—"Evening News" midday news service.
 1.50 p.m.—Studio music.
 During the afternoon the following musical items will be given:
 Cliff Arnold, novelty pianist.
 Sid Montague, ukulele number.
 The Westworth Symphonic Dance Orchestra, (under the baton of Mr. Cyril Kaye) at intervals throughout the afternoon.
 4.30 p.m.—Complete resume of the day's sporting events.
 5 p.m.—"Big Ben." Close down.

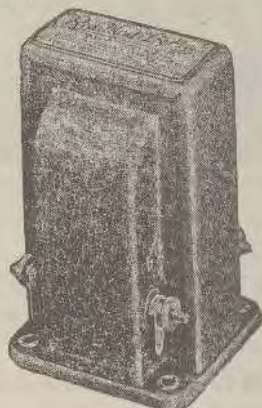
EARLY EVENING SESSION.

- 5.10 p.m.—The chimes of 2FC.
 5.45 p.m.—The "Hello Man" talks to the children.
 6.30 p.m.—Story time for the young folk.
 6.40 p.m.—Dfonor music.
 7.0 p.m.—"Big Ben"; Latest Sporting Information.
 7.10 p.m.—Weather Intelligence.
 7.25 p.m.—"Evening News" Late News Service.

NIGHT SESSION.

- 7.40 p.m.—Programme Announcements.
 7.45 p.m.—A Talk on "Authors' Week."
 8.15 p.m.—Kellie Chadwick, Soprano;
 (a) "Gloria's Song" (Greig).
 (b) "Lullaby" (Scott).
 9.0 p.m.—"Ye Idlers Minstrel Troupe,"
 Opening Chorus
 "Ye Idlers Gay Are We" .. The Company
 8.5 p.m.—"Here Comes the Chocolate Major,"
 Syd Shipway and Company
 8.10 p.m.—"Massa's in the Cold, Cold Ground"
 The Company

The World's Super Transformer



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45/-

Tonal Beauty Lies Deeper Than
The Varnish
Deeper even than the Circuit Diagram—
chiefly indeed in the Audio Transformer.

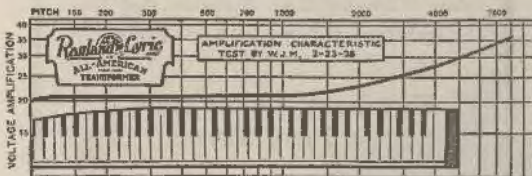


Fig. 1. Rauland-Lyric Curves

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

SOLE AGENT:

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WHOLESALE

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280 Castlereagh Street, Sydney

25 Queen's Bridge Street,
South Melbourne

Charles Street,
Adelaide

- 8.40 p.m.—Song, "What a Mouth," *Sergewell*
8.50 p.m.—"Old Kentucky Home," *The Company*
8.55 p.m.—Revelation, "Janina's Duet," *Tril Wright*
9.00 p.m.—"In Old England," *Wally Byrnes*
9.05 p.m.—Song, "Jack Cocks and Company"
9.10 p.m.—Song, "Swing Low, Sweet Chariot," *Tom Dugmore*
9.15 p.m.—Quartet, "The Four Walls"
9.20 p.m.—Song, "Tom O'Lin and Company"
9.25 p.m.—"Big Ben"; Latest Weather Forecast
9.30 p.m.—"My Ducky Rose"; *Cee Ross and Company*
9.35 p.m.—"Alice in the Deep," *H. Marshall and Company*
9.40 p.m.—Song, "Ronald Foster"
9.45 p.m.—"Pennsylvania"; *The Company*
9.50 p.m.—Song, "Mary," *J. Morgan and Company*
9.55 p.m.—"Blaine, John Slone"; *The Company*
10.00 p.m.—Chorus, "Idlers All Are We," *The Company*
10.05 p.m.—Les de Georgia, Violinist
10.10 p.m.—Nella Chabwick, Soprano:
(a) "Nightingale's Trill" (Ganz)
(b) "A Song of Quetzlcoatl" (Wood)
10.15 p.m.—Scott Alexander will present the first of a series of reminiscences entitled, "Famous People I Have Met" (George R. Sims, the author)
10.20 p.m.—Ernest Archer, Tenor
10.25 p.m.—Les de Georgia, Violinist
10.30 p.m.—"Big Ben"; Scott Alexander will present a new and entertaining novelty comedy written by Codelinton Ball, entitled "My Tower of London." In this comedy, Mr. Alexander will be supported by his own Radio Company.
10.35 p.m.—Ernest Archer, Tenor
10.40 p.m.—Les de Georgia, Violinist
10.45 p.m.—Scott Alexander will give the fifteenth of the Martin Mack Reminiscences: "On the Point of Poverty Point." Specially written for broadcasting by Codelinton Ball.
10.50 p.m.—The Westworth Symphonic Dance Orchestra, under the baton of Mr. Cyril Kaye.
10.55 p.m.—Ernest Archer, Tenor
11.00 p.m.—The Westworth Symphonic Dance Orchestra.
11.05 p.m.—Len Maurice, Popular Baritone.
11.10 p.m.—Last News and Announcements.
11.15 p.m.—"Big Ben"; The Westworth Symphonic Dance Orchestra.
11.20 p.m.—Len Maurice, Popular Baritone.
11.25 p.m.—The Westworth Symphonic Dance Orchestra.
11.30 p.m.—Len Maurice, Popular Baritone.
11.35 p.m.—The Westworth Symphonic Dance Orchestra.
11.40 p.m.—The Westworth Symphonic Dance Orchestra.
11.45 p.m.—National Anthem; Close Down.

3LO, MELBOURNE

Saturday,

MORNING SESSION.

- 11 a.m.—STUDIO QUARTET:
"Siegfried Idyll" (Wagner).
11.10 a.m.—WENDLING AND MOLOY, en-tertainers:
"Out in the new moon lay"
Popular choruses.
11.17 a.m.—BERTHA JOHNSON, singing "Meditation" (Massenet).
11.25 a.m.—STATION TRIO:
"Auldian Serenade" (Mount).
11.35 a.m.—JAMES HILEY, tenor:
"Down in the Forest" (London Ronald).
"I Heard You Singing" (Eric Coates).
11.45 a.m.—TASMA TIERNAN, solo:
"Overtures" (Ch.).
"Gondoliers" (Trowell).
11.50 a.m.—STUDIO QUARTET:
"Dance of Armine and Slaves" (Arenberg).

12 noon.—Time signal. Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuters' and the Australian Press Association cables. "Argus" news service.

12.25 p.m.—STUDIO QUARTET.

"Intermede Chinois" (Bristol).

12.30 p.m.—WALTER CHAMPNEY, assisted by Eileen Gilbert:

"At Zomerzet Pan."

"Vocal No. 7"

Eileen Gilbert, "Allice."

12.40 p.m.—Stock Exchange information.

12.45 p.m.—BERYL HAYDEN AND ROY GALLOWAY:

Duets, "Happy Childhood Days."

"Tropes-Bolites."

12.50 p.m.—STATION TRIO:

"And the Raven Slugs" (Bedford).

1 p.m.—Time signal.

1.1 p.m.—ERN TROTMAN, humorist:

"Singers and Talkers" (Keel—revised—E. Trotman).

"Rabenstein Calls" (Clare).

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

1.16 p.m.—AGNES FORTUNE, pianist:

"Water Wagtail" (Scott).

1.25 p.m.—JAMES RILEY, tenor:

"My Snowy-breasted Pearl" (Old Irish).

"Trumpeter" (Dix).

1.32 p.m.—REG BRADLEY, violin:

"The Swan" (St. Saens).

Sonata C. Minor, 2nd movement (Grieg).

1.49 p.m.—BASEBALL.

1.47 p.m.—STUDIO QUARTET:

"Introduction and Aria des Lenzi" (Tchaikowsky).

2 p.m.—Close down.

2.5 p.m.—Description of baseball deals by Mr. Percy Steel.

2.50 p.m.—BASEBALL.

2.45 p.m.—Description of Open Handicap, six furlongs, MENTONE RACES, by "Musket," of the "Sporting Globe."

2.50 p.m.—Description of LEAGUE FOOTBALL, semi-finals, at M.C.G., by Mr. Rod McGregor.

AFTERNOON SESSION.

3.0 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.

3.15 p.m.—Description of Fresh Steenlechae, 2 miles 15 chains, MENTONE RACES, by "Musket," of the "Sporting Globe."

3.20 p.m.—Description of LEAGUE FOOTBALL, semi-finals, at M.C.G., by Mr. Rod McGregor. Quarter Time.

3.30 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.

3.45 p.m.—Description of Mentone Handicap, MENTONE RACES, by "Musket," of the "Sporting Globe."

3.50 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.

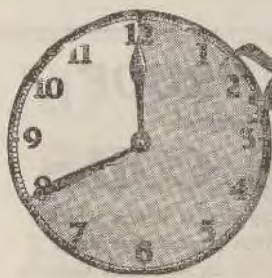
4.6 p.m.—Description of LEAGUE FOOTBALL, semi-finals, at M.C.G., by Mr. Rod McGregor. Half Time.

4.15 p.m.—Description of Waltze Handicap, 1 mile, MENTONE RACES, by "Musket," of the "Sporting Globe."

4.20 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.

4.30 p.m.—Description of LEAGUE FOOTBALL, semi-finals, at M.C.G., by Mr. Rod McGregor. Three-quarter Time.

4.40 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.



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Dear Sirs,—Very many thanks for the Browning Drake Blue Print which you sent me. It was very useful, as by its aid I was soon able to stabilise my set, which is now working perfectly. The volume and clarity are very much better than I have ever heard before from a four-valve set.

The Airzone Coils which I used are indeed all that can be desired.

Yours faithfully,

North Bundaberg, Queensland,
13th July, 1927.

Airzone, Limited.

Dear Sirs,—I am writing to let you know of my success with my Neutrodyne using Airzone Coil Kit. The results surprised me, as well as others. So far without any trouble I have heard 4GQ, 2FC, 2HL, 2HE, 2RY, 2GR, 2AR, 2LO, 2DN, 2KI, 2CL, 2YA, 2MM, 2MH. The last two heard at midnight. All stations except 2MM, 2MH and 2KI come in with splendid volume on an Amblion Music Master. 2LO, 2HL, 2FL, 4GQ, can be worked in daylight.

I have a friend working an eight-valve set, but since hearing the performance of my set, has built the same.

I have two orders to build sets same as my own, as it speaks well for your circuit and coils.

I remain, yours faithfully,

Hinderson Road, Alexandria,
N.S.W.

Airzone, Limited.

Dear Sirs,—I am writing to let you know the superiority of your Browning Drake Coil Kit, to that of any other on the market today.

I have tried many other makes, but the results obtained were not even on par with the results achieved by using yours. I have recently constructed the said set, using a set of your famous Browning Drake Coils, and experience no trouble in completely eliminating 2HL from 2LO, or vice versa. The results obtained speak all and more than you claim for the coils.

Following is a list of stations received up to date. I am approximately three miles afloat from 2HL.

2YA Auckland (fair speaker strength), 2YA Wellington (fair, weather permitting), 2FI very good, 2HL excellent, 2OW good, 2GB good, 2LO very good, 2AR good, 4GQ good, 2GR good, 2CL good, 2ZL good, 2JAN (phones).

I could tell you a lot more about this wonderful set, and the results obtained, I cannot speak too highly of the superiority of your wonder coils.

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Phone RW 1328.

4.45 p.m.—Description of Jumper's Flat Race, 1½ miles, MENTONE RACES, by "Market" of the "Sporting Globe."

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

4.55 p.m.—"Herald" News Service; Stock Exchange Information.

5.0 p.m.—Description of LEAGUE FOOT-BALL, semi-finals, at M.C.G., by Mr. Bob McGregor, Final Score.

6.10 p.m.—Close Down.

EVENING SESSION.

CHILDREN'S HOUR.

6.30 p.m.—Sporting Results.

6.40 p.m.—MISS KOOKABURRA will send birthday salutations to all on to-day's bonus roll, and thank all little scribbles for their friendly letters.

6.45 p.m.—MISS ELSIE BRADSHAW will sing for the children.

6.57 p.m.—MISS KOOKABURRA will tell her Kookaburrites about "Molly and the Moon Fairies," and "The Cruise of the Bessie Jayne."

6.58 p.m.—"Herald" News Service; Weather Reports; Shipping Movements.

6.52 p.m.—Stock Exchange Information.

6.47 p.m.—Fish Market Reports, by J. R. Inverett, Ltd.; Rabbit Prices.

6.50 p.m.—River Reports.

6.53 p.m.—Newmarket Sheep Sales, by Associated Stock and Station Agents, Bourke Street, Melbourne; Market Reports, by the Victoria's Producers' Co-operative Company, Ltd.; Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

7.10 p.m.—Market Reports of Fruit by Victorian Fruitgrowers' Association.

NIGHT SESSION.

7.15 p.m.—MR. C. ELLIS:

"Pianettes and Pianists."

7.30 p.m.—MR. F. CHAPMAN:

"Popular Scientific Authorship in Australia."

7.45 p.m.—MR. H. SCHWIGER will speak to you from the ROYAL AGRICULTURAL SHOW GROUNDS.

8.0 p.m.—MANZONI'S HAWAIIAN BAND; Blue skies, coral strands, moonlit waters—the perfume of strange flowers—the shade of spreading palms—the songs of dusky maidens—all etherealised into entrancing melody—this is made of Manzoni's Hawaiian Band, who will now play:

Waltz, "Kanelban."

"Mai Poina O I Du."

Quartette, "Fougere-rose," for two steel guitars and Spanish guitar.

8.18 p.m.—KENNETH IMPETT, Baritone:

"To Anthea" (Ratton).

"Spring's a Lovely Lady" (Keith Elliott).

8.17 p.m.—DONALD McFATH, Violin:

"Cradle Song" (Max Regni).

"Ave Maria" (Gounod).

"Spanish Serenade" (Chaminado-Kreiser).

8.21 p.m.—MANZONI'S HAWAIIAN BAND:

"Alou Oe"—Rayroll to Theo.

"La Paloma"—Mexican Serenade.

"My Hawaiian Maid."

8.27 p.m.—KENNETH IMPETT, Baritone:

"The Ringers" (Hermann Loh).

"Comrade of Bayreuth" (William James).

8.45 p.m.—ONE-ACT PLAY:

"Send in the Eyes."

Played by Stanton Ecklinton and Jessie McWhirter.

8.6 p.m.—AGNES FORTUNE, Piano:

"Soleil d'Amour" (Ejaz).

"Swing Song" (Metzelschuh).

9.15 p.m.—Description of a recent visit to the North of Ireland by "The Man from Glenagry."

- 9.50 p.m.—KENNETH IMPETT, Baritone:
"In Summer-time on Bredon" (Graham Peal).
"Pleading" (Elgar).
- 9.57 p.m.—MANZONI'S HAWAIIAN BAND:
Selection, "Hawaiian Melodies."
- 10.02 p.m.—KIM TROTMAN, Humourist:
Exits (2), at piano with banjollie, Story-ettes.
- 10.2 p.m.—Announcements.
- 10.6 p.m.—WALTER CHAMPNEY, assisted by EILEEN GILBERT:
"I Do Like an Egg For My Tea."
- 10.15 p.m.—MANZONI'S HAWAIIAN BAND:
Mandolin Solo, "Medley," by O. G. Manzoni.
- 10.23 p.m.—WENDLING AND MOLLOY, Entertainers:
"To-night You Belong to Me" (David).
"Maisy Ann" (Henderson).
- 10.32 p.m.—MANZONI'S HAWAIIAN BAND:
Band, "Three O'Clock in the Morning."
"Pill! Pol!"
"Hula."
- 10.49 p.m.—Late Sporting Notes.
- 10.55 p.m.—MANZONI'S HAWAIIAN BAND:
"Serenade" (Gounod).
Mandolin Solo, by O. G. Manzoni.
- 11.0 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS FOR:
EVERYBODY: "Rome was not built in a day. Neither is safety acquired through one good resolution. Keep everlastingly at it."
OUR GREAT THOUGHT:—"It is a Dutch proverb that 'pain costs nothing,' such are its preserving qualities in damp climates. Well, sunshine costs less . . . and so of cheerfulness, the more it is spent the more it remains."—Emerson.
- 11.1 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
- 11.46 p.m.—GOD SAVE THE KING.

Copies of the June and July issues of the new "Radio" are now available.

In addition to numerous other features these issues contain the following constructional articles:—

JUNE.

Constructional Data for the Neutrodyne The Grimes Four Valve Inverse Duplex. A Complete Short Wave Station Transmitter and Receiver.
What Constitutes a Good Aerial?
(C. D. Macleuran).

JULY.

The Eistree Six. Three Valve Short Wave Receiver. 15 One Valve Hookups. How to Make a Cone Loud Speaker. List of N.Z. Broadcast and Amateur Transmitters.

A limited supply of these numbers is in hand and readers who were unable to obtain copies are urged to write for copies immediately—Price 1/-.

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D.F.G.	45 amp. Hours Intermittent	0 16 0

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All Readers' Queries Answered Here

QUERIES

Will readers kindly note that all technical queries are answered through the columns of *Wireless Weekly*. There is no occasion to send either stamps or addressed envelopes. The only condition is that the number of questions be limited to four. We unfortunately cannot deal with technical queries by telephone or by personal call.

J.P.L. (GRANVILLE).—No; this would not be injurious.

A.J.C. (BENDON).—This is the usual trouble with 0 coil receivers in your neighbourhood. Try a wave trap, or shorten your aerial to 50 feet overall.

E.B.L. (LISMORE).—If your radio stages are too close together interference will be set up. They should be spaced at least 5 inches apart. Write to Harrington, Ltd. of this city for further information.

MULLER (STRAITHFIELD).—Your panel is perfectly suitable. It is necessary to crowd your audio stages in the available space.

K.B. (HARWOOD).—By all means build the Extraordinary One Valve Receiver. I can't say what you will get, but hundreds of others, including several, have been able to hear the station mentioned, quite comfortably. Your parts are quite alright. Don't attempt to receive on a Loop.

H.A.H. (TYNEBURY).—It is the 1 MG and CT is the 25. Condenser. Your transformers are quite alright.

H.L.R. (GATTON, Q.).—It appears to me that your screening is at fault. Check it over, as the symptoms point to this.

R.F. (BOLINGBROOK).—Many thanks for your suggestion, which is a very good one, and will be acted on shortly.

E.R. (BOOMI).—Write to Harrington, Ltd. M.R. (AUBURN).—Your aerial is quite alright. Perhaps you had better write to the manufacturer of your receiver.

J.M.D. (LANE COVE).—See September issue of "RADIO."

M.C. (NEWCASTLE).—Yours is a very strange complaint. Add a few feet to your aerial or about the secondary of the transformer with a 5000 Ohm condenser.

J.H.M. (LISMORE).—Eight ounces would be better. Coil holders are obtainable from any advertiser in *WIRELESS WEEKLY*. Prices vary according to quality. B.C. operates on a wave length of 611 metres, whereas JOAK Japan is on 375 metres, therefore the approximate settings would be 21, 25 1/2, 30 1/2. Try for yourself.

G.M. (THORNLEIGH).—See September issue of "RADIO."

E.W. (BURDANOOM).—Ballard Valves can be obtained with UK tags. Write to the radio dealer from whom you purchased your set regarding your other queries, as I personally cannot discuss different traders' sets in this column. Your aerial is quite alright.

J.A. (MELBOURNE, VIC.).—We are quite right; you are wrong. Always connect the fixed plates of a variable condenser to that portion of a circuit which is connected to the grid of the valve. The arrow does not indicate that the moving plate goes to the grid.

F.W.H. (PAIDINGTON).—Your connections are too meagre. Write again.

A.N.C.G. (KOGARAH).—See "W.W.," 11/6/27.

W.L.C. (CORFIELD).—The Double Impedance Coupled Amplifier is suitable for the Soudron, KGO broadcasts on a wave length of 261.2 metres. The Soudron can be used on the Loop, Disconnect G and P of the Ind. and connect the Loop across the grid and filament of the Valve.

S.F.E. (WAHROONGA).—You have an open circuit in the reaction circuit; connect the bottom of the twelve turns to the end of the 14th turn.

R.H. (MASCOT).—See "W.W.," 25/2/27.

W.J.S. (BULLI).—Why not use a more modern circuit. See "RADIO" of August.

W.A. (WILLOWTREES).—To test if a dull smaller valve has the filament intact, connect the filament legs in series with a pair of phones and the "A" battery. A click heard in the phone indicates that the filament is not broken. It is just as well to look to your "W" batteries for the source of cracking on a loose connection.

J.R.W. (WALLESEND).—Erect a counterpoise having the same electrical value as the aerial. For example, if you are using an aerial 70 feet long, with three strands of No. 20 gauge wire, erect your counterpoise the same length with the same gauge wire, and if possible, horizontally underneath the aerial, at a height of, say, 8 to 14 feet above the ground.

M.L. (BELMONT).—Evidently one of the field coils has burnt out in your speaker unit, or the diaphragm is not adjusted correctly. If the former, take it to your nearest radio dealer, who will have it rectified at a reasonable price.

WIRELESS WEEKLY

Registered Trade Mark.

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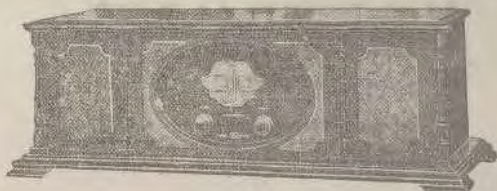
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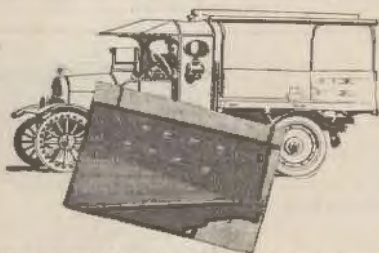
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