

WIRELESS WEEKLY

Broadcast Programmes a Week in Advance

VOLUME 11

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NUMBER 6



Friday, December 2, 1927.

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Extract from Letter to
Amalgamated Wireless.

Brisbane.

18th October, 1927.

Since receiving these A.W.A. Super-Audio Transformers I have installed one in a broadcast four-valve receiver, and one in my short wave receiver at my radio station 3AL. There is no doubt that they are the berries, as we amateurs say, for on the four-valve I found an increase in volume, clearer music, especially the high notes of the sibilant and the organ, and very quiet operation.

Results on the one that I installed in my short wave receiver are as follows: A much more musical note on Morse stations, telephone much clearer, elimination of noises, thus making a better set all round. It is indeed with pleasure that I have found in this case that an Australian Transformer was better than an American manufacturer.

Wishing every success to A.W.A. Australian-made Products.

Yours faithfully,

(Sgd.) R. W. M.

(Name on application.)



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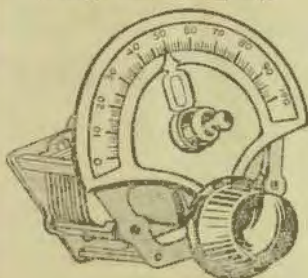
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WIRELESS WEEKLY

VOL. 11, No. 6.

FRIDAY, 2nd DECEMBER, 1927.

Wireless is a Young Man's Business.

IT is surprising when one looks round and reads of conditions in other countries to note the number of young men in the wireless industry. In the broadcasting services, in trading and manufacture of equipment, in conducting wireless services on ships, and, of course, in the field of the amateur experimenter the same conditions are observed—youth predominates.

Yet it is not altogether surprising. Wireless is so young and—particularly in broadcasting—its appeal so strong to energetic and ambitious young men, that one would imagine that it would be the younger generation that took the lead in development.

We all remember the early days—only four or five years ago—when broadcasting was a novelty—the “plaything of youth”—when parents and friends observed with a kindly, if not proud tolerance, the strange gadgets used by the smart boy of the family to “extract music from the air.” The boy was regarded as doing no harm in particular, and occasionally it was thought his gadgets might be the forerunners of something really useful.

And while those boys were making up their receiving sets from scraps of wire, cigar boxes and weird contraptions, other boys were making and operating wireless transmitters. These transmitting equipments sent out the music that was extracted by the receivers. The number and quality of the transmitters and the receivers improved and keen business men began to see prospects of a use-

ful and profitable industry being established, and so the industry commenced and grew up.

But the reign of the young man did not cease with the commercialising of his hobby. Rather his reign in another domain began. For we find to-day the amateur is still very active in his own domain of experiment, and in the broadcasting stations, and the radio shops. The young men are vast in the majority. In the management and direction of the broadcasting services, too, one finds the older man but seldom. In an organisation like 3LO Melbourne, from the General Manager down, the young man is conspicuous. It is so in other broadcasting services also.

The history of wireless since Marconi's classic experiments has many references to young men's work. Marconi himself was under 21 when he startled the world with his transmissions. De Forest was likewise a youngster when he pioneered his wireless systems. And our own Australian Balsillie, who was responsible for putting wireless on the Australian map, was erecting wireless stations in Russia when he was twenty-one. In America one need only mention Armstrong as a classic example of the successful youthful pioneer.

We must conclude that there is something in wireless peculiarly attractive to youthful imagination. The scientific foundations and art of broadcasting and other wireless services provide a fascination not found in any other study or industry.

Catching Up with the Wireless World.

By R. E. CORDER.



A DEVICE THAT aptly names broadcasts the name, speed and position of a ship has been patented by Elmer Sperry, of New York.

MOHAMMEDAN priests in Svantia, Caucasus Mountains, look upon wireless as a "spirit speaker." A receiving set was recently publicly damned, and then thrown down the mountain side.

MR. G. REGNIER (EB 4WW) recently maintained two-way communication with OH 6BDL, in Hawaii, for three-quarters of an hour. This is reported to be the first direct communication by amateurs between Belgium and the Hawaiian Islands.

A NEW WIRELESS STATION at Ruysselede, Belgium, recently celebrated its opening by transmitting a message from the King of the Belgians to the U.S. President. Long and short waves are used simultaneously. The aërials are supported by eight masts, 930 feet high.

HEAR FISH SWIM BY WIRELESS: WRNY, New York, conducted some unusual, yet interesting, experiments recently when listeners were enabled to hear the noises made by dry ginger ale, writing a letter, goldfish swimming in an aquarium by means of a special amplifier.

A 500 WATT short wave wireless Telegraph Transmitter to be utilized in effecting communication between the Ormildah Oil Company's properties and Rabaul has been despatched to New Guinea by Amalgamated Wireless, who designed and manufactured the apparatus. The wireless station is the first to be erected on the Sepik River, Mandated Territory of New Guinea, and will be used in conjunction with the Administrative Staff of the Territory for communication between the various district stations.

THE PROGRAMME manager of WLW, U.S.A., during a discussion regarding special sessions for women asked, "When will women listen?" He is evidently a bachelor!

MODERN BOOTLEGGERS: The Coast Guard of the U.S. Treasury report that rum smugglers are employing a radio controlled boat for landing their contraband goods at Norfolk, Va.

A ONE-CANDLEPOWER flashlight recently switched on a 1,380,000 candlepower searchlight by means of a photo-electric cell. This experiment was successfully carried out in New York, the searchlight used for the purpose being that of Charlottesville, Va.

ON MARCH 10, 1928, an International Broadcasting Exhibition is to be opened in the Palace of Arts, Leige, and will remain open until March 25th, 1928.

MACHINERY THAT TALKS: A new system of control by which operator-less machinery can be called up on the telephone, asked questions, and given instructions was demonstrated last month in America by the inventor, R. J. Wensley, who has termed his device "The Televisual System." Distance is no barrier.

ON THE LITTLE ISLAND of Vavau, Tonga, 2,000 miles from Sydney, there is only one radio set. The owner, Henry Cyril Krone, uses it to entertain the whole population. Everyone brings their own refreshments and everyone votes the radio set OK and the programmes from Sydney, Melbourne, and New Zealand excellent.

WRITING to his brother who is a Melbourne man, Mr. Krone says he tunes in no less than 25 stations, including the great American station KDKA and others, but of them all he likes 2BL, Sydney, best. Some of the stations overseas, he complains, have breaks of as long as five minutes between items, but 2BL keeps him listening from the start until they finish.

IT IS AN astonishing fact but true, that Mr. Krone in Samoa knew Trivalve was the winner of the Melbourne Cup quicker than his brother who was on the course, because the speed of radio is so great that the voice of the announcer giving the placed horses travelled the 2,000 odd miles quicker than the voice of a man shouting the same information over a distance of 50 yards in the paddock at the race course.

"A Big Little Paradox."

Big things are big, great things are great.
And fatter things are fatter.
And so we're not to underrate
The little things that matter.

The scarp grows into a tree.
The kitten is a cat.
And once a lion was set free.
(See Asleep) by a rat.

The smallest chains, with many a fold,
May sometimes bind the strongest.
The sea will surge, so we are told,
With shortest surges longest.

Nor water waves alone behave
With short but long insistence,
The shortest length of wireless wave
Attains the longest distance.

So J.G. was quick to see,
While aërials might be tallest,
'Twould be a greater thing to be
The greatest with the smallest.

With little waves they cross the sea,
Reaching the Roman state
(While great with greater things they
be)
To be with little great.

Let Your Battery Save Your Purse: Philco.

The Fun Doctor Becomes "Uncle Jack"

A complete reorganisation of the staff of Broadcasters Limited, the engagement of Jack Cannot as announcer and bedtime storyteller, and that of Mr. G. Vern Barnett as Musical Director, forecasts a new era of broadcasting in New South Wales. The present management states that listeners will now have the alternative of listening to two first class Stations instead of one (2FC) as before. The new arrangement encourages the general impression that 1928 will be a record year for radio.

SIXTEEN years ago, Jack Cannot made his debut in musical society by playing in the pantomime, "Jack and the Beanstalk," which was opened at Her Majesty's Theatre, Melbourne, in 1911.

Since then he has appeared in countless pantomimes, revues, and musical comedies. During the last fifteen months he has added to his fame through his tireless ability to amuse the sick; he became known to all as "The Fun Doctor" and his smile (which this photograph shows) became a powerful and pleasant physic in the cure of human ailments.

"I was very tempted," he said, "to return to the footlights, but the charm of being able to delight young Australians won the toss." Mr. Cannot is full of enthusiasm over his new position.

"It's up to me to make good," said the comedian, "and if I don't—well, there's no such word as don't."

Mr. Cannot knows how to handle children perhaps better than anybody in Australia to-day. Although only 43 years of age he has been out in Australia nearly 15 years, and in that time has become so thoroughly Australian that he not only appreciates and understands a good Digger joke, but he has added a vast number of original anecdotes and words to the Aussie glossary. He proved his citizenship by marrying an Australian girl. He has two children; his boy is at Scots' College, Bellevue Hill, and his only daughter is at



JACK CANNOT.

"Claremont." Randwick, and hopes one day to shine in the footsteps of her father. She is at present studying dancing with Miss Minnie Hooper, the well-known ballet mistress.

MR. G. VERN BARNETT

MR. G. VERN BARNETT, musical director and accompanist, though a young man, has had an extensive musical career. At 11 he was an accomplished organist and later became the organist of the Welsh Choral Society, a position he maintained for 11 years. For 10 years he was also accompanist at the Royal Sydney Apollo Club, and during part of that time accompanied such famous artists as Albert Goossens, Fraser Gange, Andrew Black, Amy Evans, Florence Austral, Elsy Treweek, Aga Laska, Alfred O'Shea, Fred Collier, Peter Dawson, Kate Rooney, Philip Newbury, Elean Stralia, Arthur Jordan, and Stella Power.

His work has been specially endorsed by Dame Nellie Melba and Henri Verbrugghen, and he has acted as adjudicator to the Queensland Grand National Eisteddfod at Maryborough and Townsville and at the Brisbane A.N.A. Competitions. He is deputy conductor, pianist, and organist to the Philharmonic Society.

Another appointment to the staff of 2BL of considerable interest is that of Mr. J. Knight Barnett, as secretary for



MR. G. VERN BARNETT

the company. Mr. Barnett, although only a young man of 25 years of age, has already shown considerable organising ability, as Broad-casters' Light Orchestra, so popular with listeners, was formed by him more than 18 months ago, Mr. Barnett occupying the position of conductor and pianist. This orchestra is composed of such well known performers as: Miss Dulcie Blair, violin; Mr. Bryce Carter, 'cello; Mr. J. Pheloung, trumpet; Mr. J. M. Post, oboe; Mr. B. Connelly, flute; Mr. H. Vreede, clarinet; Mr. F. Miller, trombone.

In addition, Mr. Barnett is conductor of the Roseville Musical Society and has been many years organist and choir master to various churches, including St. Peter's, Neutral Bay.

ATWATER KENT MANUFACTURING CO., LOSE COURT CASE: The Alexander Tuned Radio Frequency Patent No. 1,173,075, which is controlled by the R.C.A. (Radio Corporation of America), was sustained by Judge Thatcher, of the U.S. District Court, involving the radio receiving sets manufactured and sold by the Atwater Kent Manufacturing Company, of Philadelphia. The Alexander patent has been upheld by the courts in New Jersey and in Canada in previous suits.

Character from Handwriting

3LO Melbourne, has arranged with Caligra, the celebrated Graphologist, to give handwriting character delineations to Listeners

DAY by day, drawn by myriads of unseen threads, Australia is more closely united with the heart of the Empire,—associated with all that really matters in science and art—and celebrities in every walk of life now visit us to educate, elevate or amuse, as the case may be.

Our latest visitor is an expert graphologist, whose name is Caligra, and who, for the greater part of a lifetime, has been interested in delineating the Character from handwriting, having studied the subject from every angle, and through every period.

There is no stone that "Caligra" has left unturned—the ancient Druidical ruins at Stonehenge were visited, and from the hieroglyphics on the Stones, much has been gleaned of the character of our forebears. Holidays spent in research work in the South of England in connection with the Stones laid in the Old Roman Road, were a gold mine of information, and journeys through Egypt, Persia and the Far East, unfolded tales through ciphers interwoven in costly, age old, Persian rugs, mellowed with the passage of years—tales of Romance and Magic that breathed of the East.

It is universally acknowledged that handwriting is an index to character, and we instinctively judge the writer through the medium of the written word. We comment upon its "Illegibility" or "Clearness," its "Tidiness" or "Slovenliness," and so forth; we read a letter noting the bold flourishes and firm-up strokes, and mentally comment "How exceedingly like So-and-So"! Look for a moment at the penmanship of a young person of today, and that of a few yesterdays ago. On the one hand we get (here we are dealing with the average hand, and not isolated cases) the small cramped writing, indicating that ideas were crushed, and the spirit of subservience uppermost—a marked contrast to the writing of the present day, which shows in every stroke a freedom of spirit,—an originality of both purpose and ideas.

Convinced that listeners would be greatly interested, Studio 3LO, Melbourne, has secured the services of "Caligra," who will decipher all

specimens of handwriting submitted. In conjunction with this novel idea, listeners may help to swell the funds of the Melbourne Hospital, by forwarding a specimen of their handwriting, together with half-a-crown, which will enable them to obtain a character delineation, and also become a member of the Melbourne Hospital Birthday League.

All that is necessary is for listeners to enclose half-dozen lines of ordinary handwriting—no additional flourishes—and say if they have reached the age of 18—indicating if they are to be members of the Junior or Senior League.

This is a unique opportunity afforded to listeners, and it is anticipated that "Caligra" will be kept busily engaged in the joint interests of listeners and the Melbourne Hospital.



CALIGRA.

Perfect Reception Every Day Possible with Philco.

Power from Heat

Sensitive Mineral Points to Possibility of Using Energy from Sun

By S. R. WINTERS.

"CAN we dispense with A and B batteries and operate our radio receiving sets from electric current produced by the direct action of heat?" is, in effect, a uniform question being asked daily by radio fans.

While one is inclined to discourage this as a source of power for radio receivers, the production of electric current by the direct action of heat—for example, the unequal heating of a circuit composed of two dissimilar metals—is in accordance with an established scientific principle. In putting a soft pedal on this method of generating electricity for radio purposes one must be mindful of the skill required in operating thermoelectric generators and the accurate control necessary in usefully applying this current to the operation of radio receiving sets. For the veteran experimenter, it would seem, thermoelectricity offers a fruitful field of research.

Investigate Molybdenite.

Many laboratories have been investigating the phenomenon of molybdenite, a rare mineral, which not only possesses thermoelectric and photoelectric properties, but the uncanny magic of converting light into electricity. It manifests the peculiar property of generating electric current when exposed to the sun, moon or stars. However, molybdenite reacts only to certain wavelengths of light, just as our radio receivers will reproduce music or speech when we have them tuned to certain electric wavelengths or frequencies of the broadcasting stations.

Radio experimenters being so fortunate as to obtain specimens of this rare mineral can apply their inquisitive minds with considerable zeal in exploring into the thermoelectric or actinoelectric properties of molybdenite. They consist of thin cleavage pieces, some of the laminae being six centimeters or more in length. To the ends were attached fine copper wires, which formed the thermo-junctions, thus producing electricity by the unequal heating of two dissimilar metals. The measurements, on samples from various

sources, gave values of plus 690 microvolts down to plus 100 microvolts, through zero thermal electromotive force to minus 1040 microvolts. In one sample one end gave plus 510 microvolts and the other end gave minus 1040 microvolts against copper at 28 degrees Centigrade.

Test Samples.

Out of twenty-seven samples of molybdenite tested in a well-known laboratory these specimens of crystals originating in Canada, Japan and Australia—twelve had a positive thermoelectric power and fifteen had a negative. "On focusing the short wave radiation from a Nernst glower," stated a scientist, in describing his experiments, "filtered through a water cell it was found that in some of these samples there were spots giving high positive or minus electromotive forces, which were evidently caused by the action of short wave-

length thermal radiation as distinguished from thermal excitation resulting from a temperature rise due to conduction of heat from a body of a higher temperature.

"In some cases this actinoelectric action was so strong that daylight incident upon the molybdenite was sufficient to throw the galvanometer deflection off the scale; whereas causing a temperature rise of 70 degrees Centigrade (melting a globule of Wood's alloy) produced a galvanometer deflection of only 3 millimeters." The piece of molybdenite used in experiments of transforming the heat of the sun or stars into electricity is no larger than the head of a pin. The chip of mineral thus used is larger than a pin head, but only a small spot of each specimen manifests that inexplicable phenomenon of changing light into electric current. Oddly enough, this bit of mineral is inclosed in a discarded pill box, the tiny hole being opposite the magic spot of the mineral, and when exposed to the sun sufficient electricity is generated from the light to force the deflection of the galvanometer—electrical measuring instrument—off the scale.

Thus the daily inquiries from experimenters contemplating the use of thermoelectric current or even electricity from the sun in operating radio receivers are not as senseless as they appear on the surface. While impractical at present, radio experimenters of the future may not only discard A and B batteries, but instead of plugging into electric light sockets they may draw upon the sun, moon or stars as a never-diminishing source of power. "We have found substances that apparently transform light into electricity," declares the scientist. "The importance of this cannot be foretold." is his cautious afterward. "The next thing to be done," he continues, "is to isolate the spots exhibiting high actinoelectric sensitivity and examine them separately. This will be a tedious, time-consuming undertaking. The material is of rare occurrence and the risk of injury or loss is too great to attempt to attain the goal in one step."

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Hurley used Burgess in New Guinea.



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.

QUEENSLAND ALSO.

Dear Sir—We have read with interest, on page seven in your issue of "Wireless Weekly," dated November 18th, the announcement that 3LO, Melbourne, has made application for licenses in South Australia, West Australia and Tasmania. Why is it, however, that this unfortunate State of Queensland has been excluded from a similar application? Radio in Queensland at the present time is at stagnation stage, and unless early action is taken to stimulate interest in wireless, there will be a serious falling off in the renewal of licenses, and most of the radio dealers will go broke. It is questionable whether any dealer in Brisbane at the present time is making a financial success of his business operations. If you can do anything through your columns to assist Queensland, by all means you are free to insert this letter under the nom de plume of

"BANANA LAND."

2NM.

Dear Sir—You are no doubt aware of the important and very successful experiments in short wave broadcasting, which have been carried out by the famous British amateur transmitter, Mr. Gerald Marcuse. Mr. Marcuse is making tremendous efforts to further the progress of international broadcasting, more particularly between Great Britain and the distant parts of the British Empire. He has, largely at his own expense, equipped his amateur transmitting station 2NM for this purpose.

Mr. Marcuse has already succeeded in getting into touch with other wireless enthusiasts all over the world, and results so far have encouraged him to continue his experiments.

He broadcast his first concert to the Empire on the morning of September 11th last, in connection with which he received very satisfactory reports from Australia.

Mr. Marcuse states that while carrying out experiments for Aus-

tralia and New Zealand he finds that these countries, having once chosen the right times, are the easiest with which to conduct radio telephony tests, and he has received nothing but excellent reports from them.

He is anxious to discover the most suitable hours for transmissions to the various parts of the British Empire. Owing to the different time prevailing in distant parts of the world, this is a matter calling for much research and continued experiments.

He will be testing in future on Tuesdays, Thursdays and Saturdays from 6-7 a.m., and from 9.30-10.30 p.m., also on Sundays from 6-7 a.m. and 6-7 p.m., all these times being Greenwich mean time. The transmissions will be sent out on a wave length of 32 metres at present, although it is probable that Mr. Marcuse will shortly be going down to a wave length of 28 metres.

We think that you may like through the medium of your paper to inform your readers of these important experimental transmissions, of Mr. Marcuse, in order that they may endeavor to receive his tests and enable him to gain additional data for the improvement of the technical side of his work.

We should much appreciate it if you would request your readers to send into you reports as to reception, and if you would kindly inform us of the nature of these reports in order that we may forward them to Mr. Marcuse on behalf of your paper.

We shall be pleased to forward you from time to time any further information regarding Mr. Marcuse's experimental work.

With best wishes, and thanking you in anticipation of your co-operation.

Yours very truly,

LEONARD F. PLUGGE,

Director, Radio International Publicity Services, Ltd.

DX HAM'S PARADISE.

Dear Sir,—I would like to thank Mr. Victor Simpson for his support of my letter ("W.W." 21/10/27), at the same time I did not mean that this page should be debarrred from programme critics. Nevertheless, if some of your readers would carry out my idea, then this page would be of some benefit. Would one of your readers who lives a few hundred miles from a broadcasting station, give his experiences with the Solodyne? For preference, one who lives in the North of Queensland.

I have heard the Technical Editor speak from 2FC of the wonderful qualities of the Solodyne, but I would like to hear of a constructor's experiences as already suggested. At present, I have a four valve tuned anode set, which gives very good results. I have had through my hands for repairs, an 8 valve super-Het., a 6 valve tuned R.F. impedance coupled A.F. set, 5 valve Neurodyne, and have heard the Elstree six in this locality, and up to date have not heard a set (in this district) that had anything over my old circuit. Herewith, a list of stations I have received, and can be vouched for: KGR, KFRC, KGW, 2KY, 2UW, JOCK, 7ZL, 4YA, on phones only. 2BL, 2FC, 2GB, 4QC, 3LO, 3AR, 5CL, 1YA, 2YA, 3YA, KPO, KGO, KPI, JOAK, on the loud speaker, a listen unit. Using 3 radiotron and 1 Philips B406, a Leclanche B battery 18v. dec. 45v Rad, 60 to 90v Audio. When conditions are good, many of the above can be received on 3 valves, both on phones and the speaker. My aerial is about 60 feet high, and about 135 feet long, and can cut out any station I want except KPO, when Wellington is working. I have heard the broadcasts of PCJJ, WGY, and other stations just as good as people living alongside of the station.

Hoping a lot of other readers of "Wireless Weekly" will give their experiences in these pages.

Yours, etc.,

Fiji. R. F. HEADON.



The wireless installation of the *Naura Chief*—one of the most efficient and modern outfits of all the Australian equipped vessels. The operator's bunk is seen on the right.

Naura Chief Radio Set is Aristocrat of the High Seas.

By *TELOPEA SANDGATE*

ONCE the bugbear of radio operators, the *Naura Chief*, which trades among the palm clad islands of the South and North Pacific, has been transformed, by a gradual process, into one of the finest fitted cargo vessels of her type afloat.

Undoubtedly her wireless installation is unique in the Southern Hemisphere, built up as it is more like an experimental station than a standard marine set.

Formerly she was fitted with a half K.W. spark transmitter and a single valve P1 receiver. The gear was very inconveniently placed, making the task of the operator an exceedingly difficult one. Controls and switches were so widely separated that he was obliged to engage in a walking tour before he could start up.

Formerly, also, the cabin was not all that could be desired. For one

thing, it lacked portholes, which in the tropics is a serious disadvantage.

All that is now changed. The cabin has been completely remodelled, and fitted with portholes—and not only portholes, but oversized portholes. The operator's bunk is in the same position, but so full of gear is the cabin that attention must be paid when signing on operators, to physical proportions. The five foot nothing man would sleep in more comfort than the six footer, who would suffer from telegraphist's cramp in the knees, owing to the necessary shortness of his pallet.

The operator, however, finds his set conducive to the sweetest of dreams. He sleeps with his head scarcely two inches off the high voltage step-up transformer.

To gaze upon him sleeping, one wonders how he sleeps, buried as he is

in a sea of technicalities. The old set has been buried in a mass of instruments—an amateur's nightmare.

Two bulkheads are completely covered with instruments; a portion of the deckhead and the deck itself is a depository for numerous other sections of the set. Little of the deck can be seen for the vast array of A and B batteries which are packed there.

The complicated installation is made up of a number of instruments. The outstanding parts are:—

The original half K.W. spark transmitter with motor generator.

Telefunken emergency spark coil with emergency accumulators.

Two-valve 'phone transmitter.

Four-valve receiver.

Three-valve amplifier.

Spare single valve P1 type receiver.

Six-valve Radiola.

The three-valve amplifier can be used as a local oscillator. By the throw of a single switch, the two-valve 'phone transmitter can be changed over to C.W., I.C.W., or speech.

The cabin is luxuriously fitted with listening-in equipment which brings joy to the lonely outposts in the Southern Seas. It has two loud speakers and five or more sets of headphones.

Many unexpected devices are found. For instance, there is an interesting safety-first feature of the 'phone set. This is a "shoring button," which, when pressed, shorts the high voltage condenser, thus protecting the operator from the danger of accidental contact with 10,000 volts.

Among many other equally interesting devices is an ingenious scheme devised by the operator to give a unique vernier capacity effect in tuning. This consists of the very simple expedient of placing a pipe cleaner across the terminals of the receiver.

A metal compass card placed in variable relation to the jigger or aerial tuning helix dispenses with the necessity of fitting a magnetic relay or change over switch for changing from sending to receiving. By correct coupling it was discovered that no loss in signal strength is sustained.

The history of the set is one of constant application and experiment, and the operator may take justifiable pride in the fact that the range of the 'phone transmitter has been increased from an original 23 miles to a night range of 600 to 800 miles.

The vessel can now pick up with ease any of the Australian broadcasting stations on the east coast, anywhere on its voyage between Sydney and Nauru. Two Americans stations are also received in daylight and no difficulty is sustained in bringing in all Japanese stations at full loud speaker strength, despite atmospheric conditions, which are intense in the course of the ship's equatorial trip.

On off-watch moments or when in tropical ports, the operator entertains the crew with gramophone loud speaker music by means of a simple device. The primary winding of the transformer belonging to the 'phone set is placed in series with a six-volt battery and a microphone. The secondary of the transformer is shunted across the loud speaker. By means of a long extension cord connected to the loud speaker gramophone music played in the operating cabin may be amplified and danced to on deck.

An operator with a fine sense of humor, while entertaining passengers in the saloon with music and news from a distant broadcasting station,

could on the same principle find an outlet for his jovial spirits—or his spleen.

This could be done, and indeed has been done, while receiving speech from a broadcasting station by plugging one air piece of a receiver near the microphone, and listening-in with the other.

By judicious timing he could substitute his own voice for the voice over the ether, and thus obtain much harmless amusement at the expense of passengers or crew.

This device could be employed in the hume to get one back on Ma or Pa or the mean Uncle.

B.B.C. and Empire Radio--Reply to Criticism from Australia.

CONSIDERABLE criticism has arisen, both in England and in Australia, out of the sudden termination of the re-broadcast by the B.B.C. of the Australian programme from 2FC on a recent Sunday night.

It has been suggested that when atmospheric were bad, the B.B.C. engineers all too readily abandoned the experiment. Conditions later improved and the Australian programme is reported to have been heard clearly at Keaton, but ordinary listeners were deprived of the opportunity of enjoying it.

The fact has caused so much disappointment here, that the question is being asked whether those in control of the B.B.C. are really enthusiastic for the development of Empire broadcasting.

The London "Daily News" published the following message from Melbourne recently:—

"The British Broadcasting Corporation's action in shutting down the re-broadcasting of 2FC's programme yesterday, when transmission was just reaching peak clarity, is causing much adverse comment. The tone of the general criticism is crystallised in a statement by Mr. Hugh McCubin, wireless manager to Noyes Brothers, that the B.B.C. policy is incomprehensible.

"They seem to be doing their very best to kill all attempts to establish an Empire interchange of programmes on short wave," he said.

The message was communicated to the B.B.C.

Their reply was as follows:—

"The B.B.C. engineers thought it not only undesirable, but worthless to continue to attempt to establish Empire interchange programmes on short wave on Sunday, owing to bad atmospheric conditions. It is ridiculous to criticise in such a manner as to infer that we shut down deliberately."

The Corporation gave this explanation of what actually happened during their efforts to re-broadcast the programme:—

We broadcast for 23 minutes, but found it absolutely useless. We re-started, and after a further 12 minutes we decided that there had been no material improvement. If we had known that transmission immediately began to improve when we had given it up, we should have been only too glad to continue; but, as it was, there was no indication that such would occur.

"We have no information as to the date of the next attempt."

Continuing, "The Daily News" states: "We are not by any means satisfied with the official reply to the Australian protest against the action of the B.B.C. in suddenly shutting down the re-broadcasting on Sunday of a 2FC programme when transmission was 'just reaching peak clarity.' Australia's acid comment is that the B.B.C. seems to be doing its very best to kill all attempts to establish Empire interchange programmes on a short wave. Is there any justification for this criticism?"

"The suspicion unfortunately exists, not in Australia alone, that the B.B.C. officials are apt to throw cold water upon any enterprise not initiated within the department; in other words, that they are gradually acquiring that twin disease of formalism and inertia to which bureaucratic control is so fatally subject. They would do well to remember, however, that they are responsible for a great new medium of communication in which the public is intensely and intelligently interested. There is an affair which belongs in a very real sense to the whole Empire. If the B.B.C. cannot keep, not only awake, but in close and sympathetic touch with public requirements, it may one day suffer a rude shock."

It's All in the Air

Coming Features in the Broadcasting Programs

ROY RYAN will give a novelty whistling act from 2FC on Saturday, 2nd December. He has a varied repertoire, and his work should prove entertaining to devotees of the unusual.

UNIVERSITY CONSERVATORIUM QUARTETTE: Professor Bernard Heinze and his University Conservatorium Quartette are featured in the programme at 3LO for Sunday evening, December 4th.

"NOTHING BUT THE TRUTH": James Montgomery's comedy will be produced by the H. W. Varna Company at 2FC studio on Thursday, 1st December. Mr. Varna has proved his worth in the matter of radio plays, and listeners will anticipate with pleasure this reading from "Nothing but the Truth."

CHARLES RENTON, old 2FC favorite, has written to the studio offering congratulations on the success of the recent Empire broadcasts. He is with the "On Our Selection" Company, and while playing at Benalla (N.S.W.) received a letter from his brother, who is at Bath (Somerset), in which he says: "We listened in to 2FC re-broadcast by 2LO, and were very excited, as the programme came through wonderfully."

CHRISTMAS CHEER: 2FC have a litany all their own for those who are sick, and suffering, and particularly at Christmas time are their energies redoubled in spreading cheer through the hospitals. On Saturday, 17th December, a special concert has been arranged, both afternoon and evening, for the patients at Waterfall Sanatorium. The Smith Family are lending their valuable aid, and over twenty-five artists will brighten the hours with their entertainments. On Monday night, 18th December, 2FC will again participate in merry-making, when fifty artists will descend on the Prince of Wales Hospital, Randwick, and in song and story relieve happier days with the patients there.

MAGGIE FOSTER: The ever-popular girl with the curls and a violin, Maggie Foster, is broadcasting again from 3LO, Melbourne.

"THE STUDENT PRINCE": Acts 2 and 3 of "The Student Prince" will be transmitted by 3LO from His Majesty's Theatre on Saturday evening, December 3rd.

OUR SUPREME NATIONAL NEED: Senator Millen is to speak at the Pleasant Sunday Afternoon at Wesley Church on Sunday afternoon next, December 4th. This speech will be of considerable interest to listeners and it will be broadcast by 3LO, Melbourne.

A MAORI PROGRAMME: A novel programme of Maori music is being arranged by the composer, Doreen Walsh, and will be given from 2FC studio, on Sunday, 4th December. Bryson Taylor and Winifred Jenner will be associated with Miss Walsh on this occasion. The programme will include a talk on the music legends and mythopoetic conceptions of the Maoris of New Zealand, and songs composed by Miss Walsh, who is a native of the Dominion.

"ONE MAN, ONE VOTE" is the maxim of the arbiters of our political fate, and 2FC have adopted the same principle in the matter of microphones, as far as the spoken word is concerned. The H. W. Varna Company scored a radio triumph with their reading from "The Silver King," but in acknowledging the well merited congratulations, Mr. Varna paid deserving tribute to the mechanical skill which plays so small part in the production. In the old days, the actors stood round in a semi-circle before the microphones, with the result that those nearest to it recorded clearly, but those on the "outer," as it were, could scarcely be heard. 2FC have now arranged for the company to sit at a long table on which are arranged as many as six microphones. Thus, each actor has an individual microphone, and the balance is evenly maintained throughout.



Madame Ella Kingston, the famous oratorio vocalist and musical director who is appearing at 3LO in a series of song recitals.

PIRATES AND MORE PIRATES: Listeners never seem to tire of hearing Captain Donald MacLean telling his wonderful stories of Pirates. He is included in the programmes at 3LO for some time to come.

COMMUNITY SINGING: The 3LO Community Singing this week will start at the Studio on Thursday, December 1st, at 12:30 p.m., and extend simultaneously throughout Australia. There is no limit to the number who may join in the great broadcast effort, and there are no class or racial distinctions or barriers.

EILEEN CASTLES: After an absence of a few weeks, Miss Eileen Castles is making a welcome re-appearance at Studio 3LO when her delightful soprano voice will once again charm the listening ear. There are few vocal roles that Miss Castles has not played, for she has appeared in operatic performances with conspicuous success, delighted hundreds of concert goers with artistically rendered ballads, and, as a Fairy Queen in pantomime, has transported her youthful audience to that delightful land of "Once upon a Time." During the globe-trotting, this delightful artist has collected many souvenirs, but, none more treasured than a somewhat barbaric necklace given her by an Eastern potentate in appreciation of her art.

EUREKA: The 73rd anniversary celebrations of Australia's only war—The Eureka Stockade—will be celebrated on the actual site of the episode at Ballarat on Sunday afternoon, December 4th. 3LO, Melbourne, will broadcast the speeches at the ceremony. On the eve of the anniversary Mr. Howlett Ross will give a talk from 3LO upon Australia's Baby War.

HOLDEN'S BAND FROM HENLEY BEACH: Although Holden's Band are frequent performers at 5CL, listeners are always ready with letters of appreciation of their efforts. Recently 5CL have commenced relaying the concerts given by Holden's Band at the Henley Beach Rotunda.

THE FIRST NOEL: Christmas, 1927, will mark an epoch in radio history. 2FC in co-operation with Amalgamated Wireless have gained an unassailable position in the forefront of Empire broadcasting, and through their activities on Christmas Day, listeners will have the opportunity of hearing a programme of carols, replete with all the atmosphere of a typical English Christmas, which is being specially prepared for relay by the British Broadcasting Corporation. Then, on Monday morning (Boxing Day), at 5 o'clock, 2FC will stage what is probably the most unique Empire broadcast ever attempted. The microphone will be set up on one of Sydney's beaches, where the surf " . . . froths and hisses, enticing weary feet," and listeners on the other side of the world will revel in the mind picture of a golden summer morning in Australia, in vivid contrast to the roaring log fires and snow covered countryside of the Homeland.

NEW TOWN HALL: December 15th will be a great day in the history of Melbourne, for it will mark the opening of the new Town Hall, and final arrangements have now been completed by Station 3LO, Melbourne, to broadcast the speeches that will be made at the ceremony. According to some people the fire that razed the old Town Hall to the ground, was somewhat in the light of a boon and blessing, for what appeared at the time to be a great calamity, has resulted in a wonderful new building, with excellent acoustics, which will be a great credit to Melbourne. A very special programme has been arranged, speeches will be delivered by the Lord Mayor (Sir Stephen Morell) and leading citizens of Melbourne, and, through the arrangements made by Station 3LO, Melbourne, country listeners will be able to follow the entire proceedings, which, from quite a number of standpoints, will be of more than passing interest.

A NEW INSTRUMENTAL TRIO, consisting of Professor C. Sauer (violin), Madame Arline Sauer (piano), and Miss Bosward (cello), has been formed by 2UW. Miss Bosward is an artist trained by Mr. Bryce Carter, who is well known to 2FC listeners. Professor Sauer and Madame Sauer are well known as accomplished musicians, and with Miss Bosward it should be worth while tuning in to this station on Thursday to hear their rendering of "Haydn."

FAMOUS PLAYS BROADCAST: 2FC has prepared a number of famous plays, which are now being radiated. The first was "The Lady of Lyons," which was broadcast on November 9th. Others in the series are, "His House in Order" (November 24th), "Nothing But the Truth" (December 1st), "The Prisoner of Zenda" (December 8th), "A Royal Divorce" (December 14th), "The Christian" (December 19th), "The Sign of the Cross" (December 23rd), "A Message From Mars" (December 29th).

AIRMEN IN FESTIVE MOOD: The Airman at Point Cooke will be en fete on Friday, December 2nd, and 3LO will broadcast a description by Norman McCance of their doings. There will be a big children's fete and Xmas tree, and Father Christmas, in all his glory of red coat and ermine, will arrive by aeroplane.

REV. BERNARD TUCK, B.A.: A firm favourite with listeners is the officiating clergyman at the Parkside Baptist Church, the Rev. Bernard Tuck, B.A. This gentleman has been heard from 5CL for a considerable time, and his services always result in a large batch of letters of thanks. Since the Parkside Baptist Church has been broadcast, the Rev. Tuck has received letters from all parts of the Commonwealth and beyond. The Parkside Baptist Church seems to be eminently suitable from the acoustical point of view for broadcasting, and the Rev. Tuck's voice always reproduces clearly and distinctly.



Twinkler (Mr. F. J. Mills), who is the manager of the 5CL Boys' Club. He is the author of numerous humorous books.

Joe Aronson's Band in operation in Studio No. 1, at 3LO. This is the view visitors who make up the visible audience obtain from their seats. The large notices "Silence" are for their benefit. Mr. Andrew, the announcer, is seated in the enclosure on the left.



The Significance of 3LO's Proposal

Our 3LO Correspondent states the case for the Melbourne Station, which has applied for permission to erect stations in Adelaide, Perth and Hobart

FEW people seem yet to realise the significance of the proposal by 3LO, Melbourne, to erect relay stations throughout Victoria. So far the P.M.G.'s Department has not indicated its attitude on the matter.

Past question, this improvement is necessary. The country radio service is one that deserves as much attention as the city. 3LO has always shown its high appreciation of this fact. For 18 months it has been seeking facilities to make just such provision as is now indicated by the erection of relays. In addition it has increased interest in country towns by carrying radio service direct to certain centres.

The Wireless Commission took copious evidence of the fading and distortion which takes place in various portions of the country districts. Their own remedy, after taking expert advice, was by the establishment of relay stations. The faults complained of are notorious in parts of Gippsland, in the North-East, the Western District, and portions of the Northern district. A station at Maffra would eliminate this trying defect, and popularise wireless through Gippsland. Similarly with the other parts of Victoria sought to be served.

At present 3LO, Melbourne, goes to enormous trouble and expense to serve the country by broadcasting interesting concerts and events from rural centres. With no flourish of trumpets feats are being constantly performed, which, in the earlier days of wireless, would have caused wide comment. Only the other day Mr. Atney was broadcast from Canberra to the rest of Australia. A few days later the Returned Soldiers' Dinner speeches were broadcast from Canberra. At one minute the State was hearing those speeches, the next 3LO was broadcasting from Ballarat. It is the aim of this station to take all country centres severally and "put them on the map," so to speak, by using them as broadcasting centres. No finer method of bringing town and country together would be devised.

The proposed relay stations, by giving clear reception to crystal sets, will make country wireless cheaper and more efficient. It will make life in the lonely country more endurable and play its part in preventing the drift to the cities which does so much harm. On every count permission ought to be given for the erection of the relays. To delay is to check the progressive activity of the finest station in Australia.

THE KOOKABURRA AT 3LO.

Little Miss Kookaburra conducted a competition recently for the best verse describing her well-known laugh from 3LO, Melbourne. The following is a verse submitted by one of the child competitors—

"I've tried to copy Miss Kookaburra's call.

But I don't seem to get the right sound at all.

Perhaps I have not got the right sort of throat.

For the noise that I make is more like a goat."

Another competitor of Nar-Nar-Goon sent along the following:—

"Dear Kookaburra, Kookaburra, burra, burra, burra,

Your laughter seems so hearty and so thorough, thorough, thorough,

That it fills the soul with gladness, dispelling gloom and sadness,

So you know we love to listen to your laugh from 3LO."

Whilst from Bannockburn the following was received:—

"Now 3LO a test did hold.

Of all the laughs that could unfold, And when they tried out all the rest,

Miss Kookaburra laughed the best."

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2 Grodan Neutralising Condensers, at 3/9	0 7 6	2 Econotron Audio Transformers, at 8/6	0 17 0
3 Certified S.L.F. Lowloss .0005 Condensers, at 9/9	1 9 3	1 Electrad Battery Switch	0 2 0
3 Emmco Dials, for same, at 7/6	1 2 6	1 B.M.S. Single Circuit Jack	0 1 7
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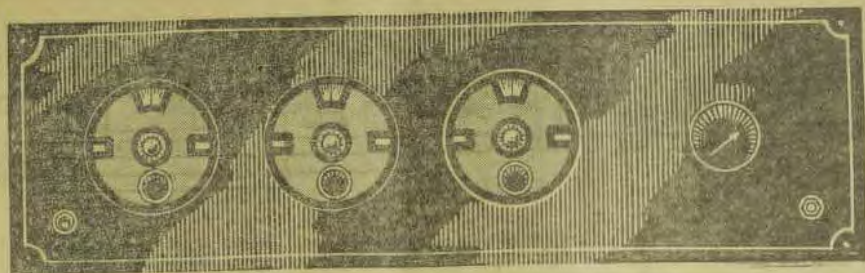
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The Screened Five

A Variation of the Solodyne

THE introduction of screening coils in the modern radio receiver is one of great importance. Such receivers as the Solodyne, the Mewflex, and the Universal Four, owe much of their success to the fact that the coils are screened. All the receivers mentioned employ some form of radio frequency amplification, which we all know has a drawback in instability, and difficulty of control! This state of affairs is brought about by magnetic coupling and interaction between the fields of the different coils used, and when this does take place, considerable loss of volume and selectivity is brought about by damping.

Most modern receivers in use employ screening or shielding of the radio frequency units in some fashion or other. Most of the big manufacturers the world over are producing sets in which shielding plays a most important part, and there is no reason why the home constructor should not be able to build his own set after this pattern provided the components required to construct the set are available to him. Some of our local enterprising firms have produced screen coils which are comparable in many instances, even better than the imported type. The local manufacturer knows Australian conditions, and his design of coil is generally to be preferred to that type which is built for overseas reception. This must not be confused with the local reception of overseas stations, but it is mentioned to stress that local problems of reception must be considered at length in designing any suitable unit for broadcast reception.

Three manufacturers in Sydney today are producing excellent screened coils suitable for all the receivers mentioned, and incidentally suited to the receiver about to be described. They are The Metropolitan Electric Co., Mr. J. Wetless, and Messrs. Gross and Daniell. All of these manufac-

turers make a coil which is suited to Australian conditions, and every coil turned out is a specimen of splendid workmanship. Hence the writer has no hesitation in recommending the locally made article in preference to the imported article.

Comparison With Solodyne.

The Solodyne—a One Control five valve receiver—which was described in "Wireless Weekly" 20/5/27, met with unprecedented success, but many people did not get the best results from this receiver often on account of the difficulty of balancing it. To be successful with the Solodyne, it is essential that the three gang variable condenser should have each unit of the same capacity irrespective of the setting of the dial governing it. If one unit of the condenser is a fraction out of balance with the other two units, then sharp tuning is practically impossible to be had.

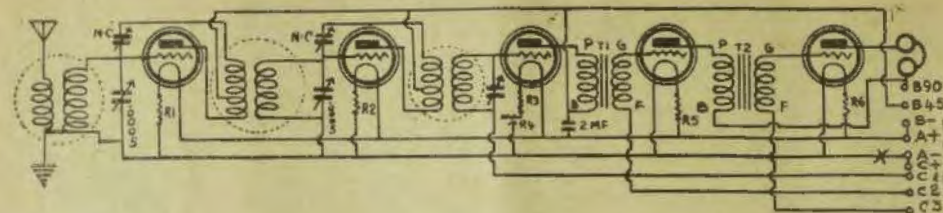
One effective means of overcoming this difficulty is the use of three separate condensers, each one tuned independent of the other. It is certainly granted that this method takes away a very important feature of the Solodyne, that of the one control, but it is far better to sacrifice this one control, in order to get maximum efficiency, on all wavelengths. This is really not such a serious drawback as it may seem at first sight, for there is no question of the fact that the standard Neul. is a very efficient receiver and is very popular with most people, yet it has three main tuning controls.

PARTS FOR THE SCREENED FIVE.

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 sets of similar quality and technical value should function quite satisfactorily.

- 1 Direct or Hard Rubber Panel, 24 x 7 x 3-16.
- 2 3005 mfd. Advance Centra-Lign Condensers.
- 3 Emeco Vernier Dial.
- 1 6 or 10 ohm. Rheostat.
- 1 Kit of Screened Coils (Solodyne type).
- 5 Amperites to Suit Valves.
- 2 Gradan Neutralising Condensers.
- 1 T.C.C. 2 mfd. Condenser.
- 2 Emeco Cavalier Audio Transformers.
- 5 Valve Sockets.
- 11 Terminals.
- 1 Terminal Strip.
- 1 Baseboard, 23 x 9 x 1/2.
- Busbar, Screws, etc.



Compared to the Neut.

Like this particular receiver, the standard Neut. employs two stages of radio frequency amplification, detector, and two stages of transformer coupled audio frequency amplification. This means that the long distance station which otherwise is not heard with any degree of satisfaction on the straight out detector valve, is brought within range and after detected it is amplified at audio frequency, so that loud speaker results are possible. It is admitted, of course, that where radio frequency amplification is employed, some form of loss comes along with it in its part, and the elimination of the total loss is really the millennium or the ideal. Screening each unit was a long way towards solving this vast problem, therefore, this particular receiver will appeal to many, who meet with trouble in their present receiver, due to interaction.

Screened Coils.

One very good feature about screened coils lies in the small amount of space, which they actually take up in a radio receiver. It is common knowledge to most that with the standard neutroformer a certain space has to be kept between each coil, and also that each coil must be angled at a specific degree, this angle depending on the spacing between each coil. Although in this receiver being described, the coils are spaced reasonably far apart, there is no reason in life, why they should be placed more closely together. The writer in the original set built, spaced these units as he has to allow for the novice to have plenty of room to make up a most efficient receiver. Cramping components on the baseboard is not to be advised except under special circumstances, and it is the intention of the writer to convey sufficient information even to the beginner the choice of space is a wise one.

That most important subject, that of selectivity, has not been forgotten. On actual test at Marrickville, the Screened Five brought in all inter-

State stations at excellent loud speaker strength, using an aerial approx. 50 feet long, with an average height of 30 feet. One thing is worth noting here, that up to the present, the writer has not been able to entirely eliminate 2BL from 3LO until 9 o'clock each evening, but earlier than this, the slight interference that is met is scarcely worth bothering about.

Circuit.

The circuit diagram is not very difficult to understand. The absence of the grid leak and grid condenser will be noticed particularly, and this should be adhered to if the circuit is followed out exactly as depicted. The experimenter if he desires may make a slight alteration by joining the moving plates of the condenser, which tunes the detector valve grid coil to the A. positive wire instead of to the biasing tapping as shown. Try both ways, and note the difference if any. It will also be noticed that there is no back coupling or reaction made use of. Instead, the whole five valves are given "a free run," and it is strange to think that such wonderful results can be had as had been had without use of reaction. This incidentally dispenses with another control in the panel.

Coil Specifications.

The parts itemised elsewhere in this article are those which were actually used in the receiver built, and while it is not necessary to adhere strictly to the brands specified, the value should be adhered to absolutely. If desired, the coils may be home made, but the drawback lies in obtaining screens of suitable dimensions. The specifications for Solodyne coils have already appeared in these pages over and over again, but for those who have missed these issues further description won't go wrong. The secondary consists of 90 turns of No. 30 gauge D.S.C. wire wound on a two inch diameter former spaced 40 turns to the inch. The primary neutralising windings are made on a 1.5/8 inch former. Neutralising and primary winding each

consist of 20 turns of No. 30 D.S. wire. Neutralising winding is first of all wound on the former in such a way that when arranged within the secondary coil it comes in the centre of the secondary winding. On the top of this neutralising is wrapped one turn of Empire cloth, or wax cartridge paper, and on the top of this insulation is wound the primary coil, consisting also of 20 turns of the same gauge wire. The connections may be seen in the circuit diagram, and also on the back of circuit diagram. The cans themselves can be made of either copper or aluminium, and should be at least 3/4 inches in diameter, besides a natural clearance of 1/2 inch all round the coil before the metal is reached. It must not be overlooked that this 1/2 inch clearance must also be provided for even at the top and bottom of windings.

Construction.

The first operation in constructing this receiver is to mark out and drill the panel to accept the three variable condensers, the rheostat, the switch and the jack. The diagram accompanying this article shows the dimensions and the distances of the various parts, and besides this, it was drawn to scale. Not shown, but must be provided for, are the necessary holes for the catch screws of the vernier dials, and also those three holes required at the bottom end of the panel, with which the panel is fixed to the baseboard. Always centre punch before attempting to drill, as this prevents the drill slipping, and thus causing ugly scratches on the surface of the panel.

Baseboard.

Prepare the baseboard by trimming of the edges squarely, and treating it to a coat of shellac or some other quick drying varnish. While this is drying, mark out the terminal strip for the various terminals required for the batteries, etc. Spacing these terminals one inch apart is an excellent distance. Now screw the panel to the baseboard, and proceed to lay out the baseboard apparatus. Follow out the suggestion given in the plan view. This will be found very efficient, al-

lawing for short leads, where short leads matter. Screw everything securely to the baseboard, then commence the wiring.

Wiring.

Join the aerial to the aerial terminal of the first coil. Connect the E terminal to the F terminal on this coil, then run a wire to the earth terminal on the terminal board, also to the moving plates of the first condenser, to one side of the two amperites which govern the two radio frequency valves, also to the moving plates, and the F terminal of the middle can, then to one side of the rheostat, then to one leg of each of the audio valves and to one side of the battery switch.

Now join together one F terminal of both radio frequency valve sockets and the detector valve socket, then to one side of the Amperites governing the two audio valves, thence on to the A positive terminal and B negative terminal on the terminal board. The remaining side of the Amperites governing the first two valves are joined to the remaining F terminals of each valve socket they control.

Under the G terminal of the first valve socket clamp one side of a neutralising condenser, and repeat this process with a secondary radio socket and the second neutralising condenser. Now join G of the first can to G terminal of the first valve

socket, whereunder is already gripped one side of the neutralising condenser. The other side of this first neutralising condenser, joined to N of the middle can. Connect P of the first valve socket to P of the middle can. Join G of the middle can to the fixed plates of the middle variable condenser, thence on to G of the 2nd valve socket, making contact with the neutralising condenser already there. The other side of this second neutralising condenser, connect to N of the third can. P of this can connect to P of the 2nd valve socket.

Now join G of the third can to the fixed plate of the 3rd variable condenser, thence to G of the detector valve socket. P of this valve socket join to P of the first audio transformer. G of this audio transformer link to G of the 4th valve socket. P of the 4th valve socket, join to P of the 2nd audio transformer. G of this 2nd audio transformer, join to G of the last valve socket. Make a short lead from P of this last valve socket, to one side of the jack, the other side of which is joined to the B positive amplifying terminal on the terminal board, and also to B of the 2nd audio transformer.

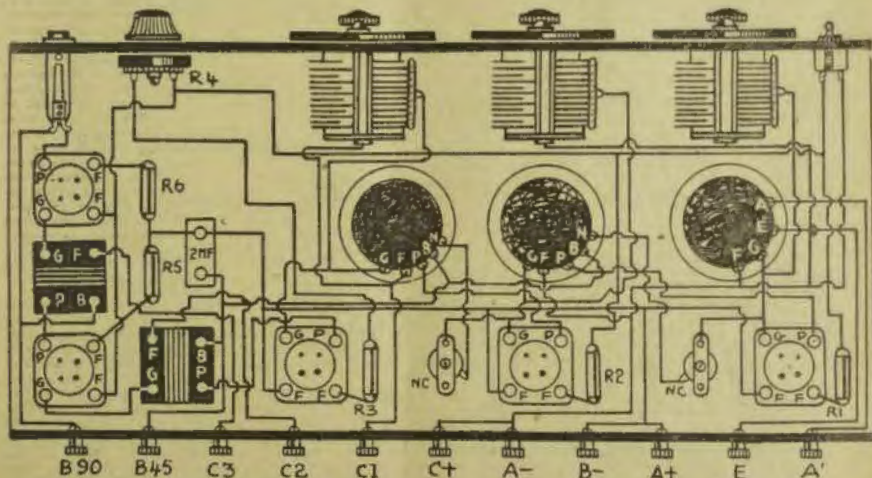
Battery Leads.

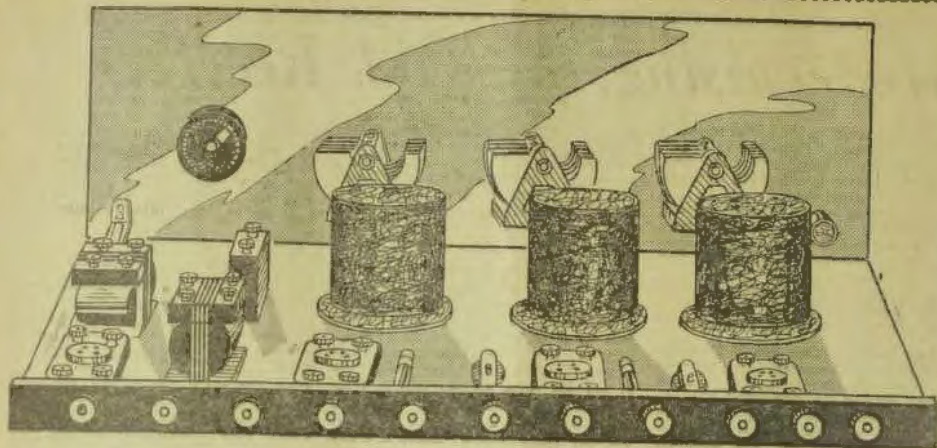
Now proceed to run in the battery leads. Take a connection from the A negative terminal to the remaining side of the switch. B positive detec-

tor lead is taken direct to the B positive on the first audio transformer, and also to B terminal on the two cans so provided for. From this lead run a connection to one side of the two Mfd. condenser, the other side of which is connected to that long A positive lead. The moving plates of the 3rd variable condenser is joined to the F terminal of the detector can and from thence down to that grid bias terminal on the terminal board provided for the purpose. The F terminal of the first audio valve socket should be connected to the 2nd grid bias terminal on the terminal board, the 3rd grid bias terminal being joined to the F terminal of the 2nd audio transformer. Of course, the A negative terminal is joined to the C positive. One more lead completes the wiring, and that is a connection made from the spare side of the Amperites for the detector valve to the remaining side of the rheostat on the panel. Check over these connections very carefully with the circuit diagram and the back of panel diagram.

Valves.

The valves used on the actual test of the receiver built were Radiotron Standard UX201AS, right throughout all stages. Later on in the evening the special detector valve UX200A was found to be an advantage. The B battery voltages were carefully considered. The detector





had 45 volts fed to it, this voltage proving also satisfactory on the two radio stages; 90 volts suited the audio stages very nicely. The bias on the detector valve varied from 14 to 42 volts and on the audio stages 42 seemed suited to the purpose. Later on, 60 volts B battery were applied to the plates of the two radio valves and the detector valve, and better results accrued. These are suggestions which may be varied in the actual receiver built by readers. The balancing of the B and the C batteries is half the battle in getting the best reception from any receiver, and this must never be overlooked at any time.

Tuning and Neutralising.

The tuning of this receiver is not at all strange or different to the tuning of any ordinary neutrodyne. The three dials will read alike for any given station, but the rheostat on the panel provides an interesting control. First of all, tune in one of the local stations to its loudest point. Then remove the Amperite governing the first radio frequency valve. Although this first valve will not now light up, signals will, nevertheless, still be heard, much fainter than before. Using a long screw driver, adjust the first neutralising condenser until the volume of the local station drops considerably or disappears entirely. It must be admitted that it is difficult to locate any particular point on this neutralising condenser at which the station is completely silenced, but if it is possible to arrive at a point where the station is particularly weak, then leave it at that.

Re-insert the Amperite for the first valve, then remove the Amperite for

the 2nd radio frequency valve. This time, adjust the 2nd neutralising condenser, until the station becomes very weak, or fades away. Put this Amperite back into position, and it should be found then, that irrespective of what condenser settings are required for any station between 250 and 500 metres there will be no oscillation in any way. Each station will gradually slide in one after the other, without the usual carry away being present. It may require one or two attempts at neutralising before the desired state of neutralisation is achieved, but considering how excellent are the results when a receiver is properly neutralised, is worth while trying over and over again to gain this point.

The rheostat governing the detector valve is a wee bit critical of adjustment, but this will be mastered after half an hour or so in handling the receiver. Probably it will be found the dial reading on the first condenser may be slightly different to the reading of the other two condenser dials, but don't worry unnecessarily over this, as this is quite in order.

* * * * *

THE RADIOLISTS' "IF."

(With apologies to Rudyard Kipling.)

If you can keep your wits, and show no consternation

When the wireless set goes "phut" and picks up not one station.

If you can grind your teeth in grim determination.

And shaw --- have complete control of bugbear oscillation—

You're just IT!

ERN TROTMAN RETURNS: Those listeners who are fond of a good laugh—and who is not?—will be glad to hear the voice of Ern Trotman, the original entertainer, over the air from Studio B.L.O., Melbourne. When Mr. Trotman's name appears on the programme, listeners need never fear that they will be regaled with songs which have been "done to death," for the popular entertainer, always striving after originality, writes both the words and music of the majority of his songs—the greater number of which have not been published. Particularly clever is an original "Nigger Minstrel" sketch, in which Mr. Trotman takes the part of each artist—from the boy soprano to the corned man—and, whenever it is included on any programme it is guaranteed to cause much laughter and diversion.

* * * * *

B.L.O. CHILDREN'S SONG COMPETITION:

There were great doings at Studio B.L.O., Melbourne, recently, when hundreds of important looking small people thronged the building, each arrived with a music case containing the song which was to decide whether they were the champion vocalist of their section. This is the third year this "Song Competition" has been held, and each year it has grown in popularity—and has "discovered" several very promising juvenile voices. Especially was this fact noticeable during the recent voice tests—when owing to so many "childish trebles" being nearly equal in both "quality and quantity," the genial adjudicator, Mr. Lane, had no end of difficulty in finally deciding which was to be "the" one.

Let Your Battery Save Your Purse; Philco.

Modernising the Old Receiver

IF there is one outstanding difference between the receiver of yesterday and that of to-day, it is in the matter of filament control. The old receiver has a plurality of rheostats, each of which must be carefully adjusted and readjusted from time to time if the valves are to be operated at maximum efficiency and without danger of either excessive voltage or insufficient voltage to cause their early finish. Set designers more and more have come to appreciate the importance of using correct filament voltage as a means of distortionless reproduction quite as much as to insure maximum valve life.

Through a simple means of group control of all valve filaments it now becomes possible to bring the old receiver up to date in the matter of filament control, and, if desired, in the matter of distortionless volume control as well. Furthermore, the panel layout may be materially simplified, thus giving the set the appearance as well as the workability of a modern receiver.

Installation Is Simple.

The group control comprises a new device known as the amperite adapter, which consists of a base with ingenious clips to take two standard units of proper value. The units snap in place and are thereby connected in parallel, with their combined regulating capacity placed in the minus lead from battery to set. Various combinations may be used to take care of the filament control of any receiver, from the small three valve set with standard 1-ampere tubes throughout to the seven valve set with six 1-ampere valves and one 1-ampere power valve, as well as everything in between.

The proper control at hand, the installation is a simple enough matter. No tools are required. No knowledge of radio technic is required. No internal changes or major operations are necessary. The amperite adapter is placed either inside the set cabinet or behind it, and screwed in place if desired. Again, the adapter may be placed near the battery if preferred. It is necessary, of course, to turn the rheostats of the set full on, so that their resistance is no longer effective. If the set is provided with fixed resistances or so-called ballasts, these should be short-circuited with a bit of bare wire twisted about the two clips or binding posts. The adapter is now ready to control the receiver valves automatically and no further attention need be given to the filament control prob-

lem, unless changes are made in the types of valves used, and then only if the valves happen to draw more or less current, in which event the combination is changed to take care of the new requirements.

If the receiver is provided with rheostats but not with a volume control, it is recommended that one of the rheostats be removed from the panel and in its place be installed a variable resistor capable of a resistance range of from virtually zero to several hundred thousand ohms. This variable resistor should be connected across the secondary of the first transformer, so as to serve as a distortionless volume control permitting the loudspeaker rendition to be varied from a mere whisper to the full output by the mere twist of the knob of the variable resistor.

The simple change from rheostats or fixed resistances to the amperite adapter control will do much to modernize the old set. Not only will it simplify the operation of the receiver by dispensing with troublesome rheostats, but it will insure the proper operation of the valves at all

times. The tone quality will be improved because the proper emission will be maintained in all the valves during their entire life, which is not the case when valves operate at above or below their rated voltage, causing paralysis, and even early finish.

THE LURE OF THE MICROPHONE: In just as strong to old broadcasting artists, as the lure of the footlights to the old actor, Captain Francis Hurley has been so overwhelmed with newspaper work for many months past, he has hardly had time to spare even a thought for his 2FC friends. But at last he has succumbed to a power greater even than the Fourth Estate, with the result that listeners are again to have the pleasure of spending a happy hour with his word pictures. 2FC have arranged a new series with Captain Hurley, the first of which will be given on 16th December. One of his talks is set down for 25th December, and he has some wonderful adventures to relate of a Christmas night spent in other lands.

Alex Whitson makes hit in London

2 FC listeners will be delighted to know that their old favorite has made the mark on the hardest of all musical critics—a London audience. The "Daily News" says: "Mr. Alex. Whitson, the well-known Australian baritone, made an instantaneous success upon his first appearance in London, at the Sunday National League's concert, in the People's Palace, last Sunday evening. Mr. Whitson sang no fewer than eight numbers, and his rendition of "The Night Watchman," a new song by Miss Barte Adams, won for him a treble encore. So impressed was a West End manager with the robustness of the singer's voice, that before Mr. Whitson left the building, he was offered a contract to appear in a new British musical play, to be produced in London within the next two months."

The manager of 2FC, Mr. Oswald Anderson, had a personal note from him in connection with the Second Empire Broadcast, with cuttings from the "Daily Mail," in which BBC is accused of losing excellent reception, through undue haste. "When the attempt began a few minutes before six o'clock last night (16th October),"

says the "Daily Mail," "atmospheric conditions were very bad on all wave lengths. There was an abundance of crashes and bangs, which practically blotted out all signals from distant stations. Fatigue, however, is the greatest of all wireless virtues. And lack of patience caused the authorities at Navy Hill to switch over to Keston at 6.8 p.m., when the Australian programme was still far from clear. At 6.29 they switched off, having had enough of speech and music heard only in indistinct fragments. Just ten minutes later the long awaited conditions arrived. The atmospheres faded away, and for 49 minutes the Keston receiver picked up Australia even more clearly than during the first Australian experiment a few weeks ago."

Mr. Whitson says: "I heard your voice and also Mr. Cochran's, on Sunday evening (16th October), and I got homecast for the Australian 'Coo-ee,' which were all splendid. Essie Ackland rung me up to listen in, and she also heard you." It will be remembered, Miss Ackland (now Mrs. Reginald Morphey), who is a native of sunny New South Wales, went Home two years ago, to pursue her vocal studies.



All You Require in a Receiver

"That a guarantee of perfect radio reception is something many radio owners and others who have hesitated to buy receivers have been waiting for is indicated by the response of the public to the New System De Luxe Receivers," says Mr. R. M. Davies, sales manager of New System Telephones Pty., Ltd., one of the pioneer firms in the radio industry of Australia.

Australian broadcasting was first permitted by regulations of the Federal Government gazetted to operate on 1st August, 1923, and to celebrate its inauguration a programme was transmitted on that day from the New System Telephones Pty., Ltd.'s experimental broadcasting station, situated in Messrs. Palling and Co.'s studio. A New System receiving set was installed at Government House, where the programme arranged by Mr. Oswald Anderson, now manager

of 2FC, was received in the presence of his Excellency the late Sir Walter Davidson and Dame Margaret Davidson and party. Mr. Ray Allsop, now engineer to 2BL, and Mr. Basil Cooke, now manager radio department, David Jones, Ltd., were congratulated by the Governor on the excellent transmission and reception.

Two of the most interesting souvenirs of these early wireless days are the framed programmes autographed by those present at Government House and the wireless receiving set, used on that occasion, which is now being exhibited by New System Telephones Pty., Ltd.

A comparison of this early model receiving set, with its old-fashioned dials and knobs and difficult controls, with the latest 1928 New System de Luxe Model shows the progress made in receiving set construction.

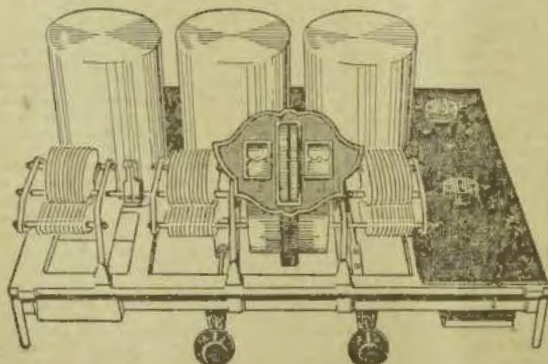
During the last four years, the company have kept well abreast of the great forward strides made in radio. It has been the aim of New System Telephones to maintain continually quality and craftsmanship at the highest possible peak, believing always that the careful and discerning buyer appreciates to the fullest extent when an efficient product is sold at a reasonable price.

To obtain efficiency in radio reception, such factors as distance, tonal quality, volume, selectivity, simplicity, battery current consumption and appearance, must be taken into consideration by a manufacturer when designing sets.

To obtain results which would not lose any of these attributes it was found necessary, after exhaustive tests of many imported receivers, to have the New System receiver wholly made in Australia, so as to best suit our local broadcasting and climatic conditions.

Especially during the past six months have the public been demanding an improvement in radio set quality. Not only do they demand a set which gives perfect trouble proof performance and easy control, but also the set must have "eye appeal"—that is, it must have a pleasing distinctive appearance, harmonizing with the finest home interiors.

"New System Telephones" claim in their New System 5 to have successfully met this demand. This type of receiver, therefore, represents a totally new departure in design, which is the outcome of more than four years of constant experiment and active experience of the wants of the Australian wireless public, and is the most outstanding advance in radio en-



Showing drum control and chassis.

From Icy Pole to Tropic Jungle: Burgess.

gineering of this year. Another outstanding feature of the New System is the unusual chassis construction, as it is built on the same principles as a high priced car. It is not just an assembly on a panel of various parts—it is chassis built. This chassis is cast from a copper-aluminium alloy and is accurately machined to take all instruments which go to make up the receiver.

Every part which goes into the receiver is specially designed and made for the job and once screwed into place becomes part of the chassis. All variable condensers are provided with combination sleeve-type bearings and are a first-class engineering job; also all transformers, including the radio frequency couplers, have their primaries designed for the valves used, thus securing maximum amplification.

The audio transformers are specially designed, and the cores are of sufficient size to avoid any possibility of saturation and are clamped between thick aluminium frames to avoid chatter. By this means quality of reproduction and its stability, which are the greatest assets of the modern radio receiver, are assured.

The radio frequency amplifiers are properly shielded and are totally neutralised, the Rice system being used. The neutralising condensers are specially pressed phosphor-bronze leaves and will not alter when once set.

Armstrong type of regeneration is used and parts employed in its operation are machined into the chassis and cannot get out of order. So scientifically assembled are the related parts that the tonal reproduction is extremely realistic, establishing a new standard in performance.

Extreme care has been taken that the set will not deteriorate with use, and all bearings are provided with tension springs to take up any possible wear.

The dual-drum system of tuning, which makes operation so simple, is used in order to allow the use of an indoor aerial. By means of this system the receiver is as easy to tune as a single control, yet retains all the advantages of the two controls.

All receivers are guaranteed absolutely standard and perform exactly alike.

Every detail in the design and finish of the cabinets reflects the thought and care of one of Australia's foremost designers of fine furniture, and the range covers every requirement.

As an example of the range of this receiver to "get" the following stations on the loud speaker in one evening is not unusual:—

New Zealand: 1YA, 2YA, 3YA, 4YA, 2YB.

New South Wales: 2BL, 2BE, 2UW, 2UE, 2KY, 2BG, 2FC.

Victoria: 3LO, 3UZ, 3RD, 3AR.

South Australia: 5KA, 5DW, 5CL.
Queensland: 4GR, 4QG.
Tasmania: 7ZL.

Many other stations, including TCA, Ca, cutia, KZRM Manila, JOAK, JOCK Japan, etc., have been tuned in at different times, at loud speaker strength.

Any reader further interested would do well to get their local agent to demonstrate a New System receiver when its full possibilities will be realised, or particulars can be obtained from New System Telephones Ltd., Ltd., Sydney, Melbourne, or Adelaide.

ADVANCE

Amongst the visitors to Sydney last week was Mr. John Deham, managing director, Radio Corporation of Australia Pty., Ltd., who, in company with Mr. A. T. Nicholls, New South Wales representative for the company, has been looking into the radio industry in Sydney. Mr. Nicholls, who is located at the company's office on the 6th floor of the Permanent Trustee Building, at 25 O'Connell-street, Sydney, will be permanently attached in this city and will maintain personal contact with dealers in both city and suburbs.

The distributors for the well-known Advance Products in New South Wales are: Fox and MacGillivray, Ltd.; Harringtons, Ltd.; Weidon Electric Supply Co., Ltd.; and British General Electric Co., Ltd., all of whom carry full stocks. It should be pointed out that dealers who require supplies of any advertising literature, such as show cards, etc., should apply direct to Mr. Nicholls, who will be glad to arrange for samples of this class of matter to be sent. Dealers or others requiring price lists of Advance parts may obtain them from any one of the distributors or direct from 25 O'Connell-street.

The Advance factory is working full time on the production of several new lines which will be released in the near future. The progressive policy of the company has shown its results in the additions and enlargements to the plant that was originally installed when Advance commenced manufacture. Only 18 months ago the factory gave employment to a staff of 30 hands; to-day there are 70 hands constantly employed. To the original machinery have been added several new models designed for greater production and more important still a Bakelite plant is now installed.

Advance Products have enjoyed a very large sale throughout Australia mainly due to their established efficiency, and also due to the successful advertising and sales campaign, which has always kept them before the radio public.

SPEAKERS AT THE SPEEDWAY.

The proprietors of the new Sports Ground Speedway are evidently missing nothing which will tend to make the new venture a success. The necessary information prior to the races and the results of these latter will be broadcast to all parts of the ground by means of an Amplion Public Speech and Band Repeater equipment, such as has been successfully used in the Palais Royal during the season and at the Wentworth Hotel, on the occasion of the recent dinner to Mr. Amery. A similar equipment is permanently installed on the famous Brooklands track in England.

Amongst the recent installations of the Amplion Public Speech and Band Repeater equipment may be mentioned the Movie Ball, Luna Park, and the Palais de Danse, Melbourne, while the equipment at the Palais Royal, Moore Park, Sydney, is very well known to all lovers of dancing. The equipment also featured largely in the dinner to Mr. Amery given at the Wentworth Hotel, and at the Red Cross Appeal Ball on board the s.s. "Kauwonga" in Sydney. It is also used extensively at the Royal Agricultural Show, Adelaide; Speedway Motor Cycle Races, Brisbane; Motor Cycle Racing at the Sports Ground, Sydney; the Grand Prix Cycle Racing at the Snowground in Melbourne, and the Royal Agricultural Show, Melbourne. In the last three cases mentioned together with the Speedway Royal Motor Races, Amplion "Senior" Systems, each of which controls 16 Power Type Loud Speakers, are used, and so clear are the announcements that they can be heard by everybody on the ground including competitors and officials in the centre of the ring.

A FILTER CIRCUIT AT A REDUCED PRICE.

All radio enthusiasts are agreed that it is advantageous to have a filter circuit between the last valve and the loud speaker. Such a circuit is essential if valves of the super-power type are used and in any case where the last valve delivers 10 milliamps or over. The Amplion Siftron is a compact and well designed circuit, comprising components having the requisite electrical values. At the new reduced price, it represents exceptionally good value and should form a part of every radio equipment where a Cone Speaker is used, though the Siftron can be beneficially used with any type of speaker.

CHANGE OF NUMBER.

From December 3rd, the telephone numbers of The Clyde Battery Service Station will be M6738 and M6739.

Summer-time is Portable-time.

Build the simple three valve portable radio receiver described in the November issue of "Radio" to take with you when you go holidaying this Xmas. Complete in case with loud-speaker, frame aerial, and battery compartment, it can be built at little expense.

Other Features Include :

- Short-Wave Research Work. By A. S. McDonald, A.I.M.E., in Collaboration with F. W. Larkins.
- What I Would Do if I Had My Studio. By Jack Win.
- What Chance Has Broadcasting of Influencing Language? By Joan Mackness.
- Prominent Personalities at 2FC and 3LO in Caricature.
- Digest of World-Wide Radio News.
- An 8-Valve Super-Heterodyne.
- The Browning-Drake Four-Valve Receiver. By H. Lewis.
- The Gomez Super-Reflex.
- Your Choice of a Loud Speaker.
- What's New in Radio and Where to Buy It.
- Latest Radio News from London.
- New Short-Wave Receiver and Transmitter.
- A Cheap and Efficient Magneto Pickup.
- Amateur Experimenters' Section.

ON SALE NOW :

RADIO

1/-

BROADCASTING PROGRAMMES

For the COMING WEEK

Friday, Dec. 2
2FC, SYDNEY.

Farmer's Broadcasting Service.

Wave Length, 442 Metres.

EARLY MORNING SESSION.

7 a.m. to 9 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
10.15 a.m.—Studio music.
10.30 a.m.—"Sydney Morning Herald" news service.
10.40 a.m.—Studio music.
10.45 a.m.—A Reading.
10.55 a.m.—Studio music.
11 a.m.—"Big Ben." Marching music for school children.
11.15 a.m.—A.P.A. and Butler's Cable Service.
11.30 a.m.—Studio music.
11.45 a.m.—A talk on home cooking and recipes by Miss Ruth Forst.
11.55 a.m.—Close down.

MIDDAY SESSION.

- 12 a.m.—"Big Ben," and announcements.
12.15 p.m.—Stock Exchange, first call.
12.30 p.m.—Official weather forecast, rainfall.
12.45 p.m.—Studio music.
12.50 p.m.—Summary of "Sydney Morning Herald" news service.
12.55 p.m.—Studio music.
12.59 p.m.—Lewin Serrick, baritone:
"The Volga Boatman" (Chalapskie-Koone-man).
1.01 p.m.—The Oak Hall Instrumental Trio: (Leader, Mr. Horace Kestis).
1.05 p.m.—Studio music.
1.10 p.m.—"Big Ben" and 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.
1.35 p.m.—Lewin Serrick, baritone:
"Elegy" (Massenet).
1.40 p.m.—Studio music.
1.45 p.m.—The Oak Hall Instrumental Trio.
1.50 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
3.15 p.m.—A violin recital by the pupils of Raymond Peckoloff.
3.15 p.m.—Eileen Semple, contralto:
"A Fat He'ller" (Gordon).
3.18 p.m.—Further violin items by the pupils of Raymond Peckoloff.
3.30 p.m.—Marching music for school children.
3.40 p.m.—From Farmer's Tea Rooms, Florence Grant, soprano.
"Winds in the Trees" (Thomas).
3.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
(Leader, Mr. Horace Kestis).
3.51 p.m.—From The Studio, Rene Baskett, violinist.
"Alleluia from Concerto Op. 19" (Vieuxtemps).
4 p.m.—From Farmer's Tea Rooms, Frank Boham, baritone:
"A King's Man" (Hillman).

- 4.5 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.15 p.m.—From The Studio, Eileen Semple, contralto:
"A song remembered."
4.20 p.m.—From Farmer's Tea Rooms, Florence Grant.
"Though sunny Spain" (Matter).
4.25 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.35 p.m.—From The Studio, Rene Baskett, violinist.
"Romance" (Wilhelm).
4.40 p.m.—From Farmer's Tea Rooms, Frank Boham, baritone:
"Lefraim" (Cadenot).
4.45 p.m.—Stock Exchange, third call.
4.48 p.m.—From The Studio, Rene Baskett, violinist.
"Hungarian Dance No. 7" (Brahms).
4.52 p.m.—Studio music.
4.55 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Halls Man" talk to the children.
6.05 p.m.—A recital by the Zensale pupils of Madame Ada Baker.
6.35 p.m.—Story time for the young folk.
6.45 p.m.—Studio music.
7 p.m.—"Big Ben." The 2FC Commissioner will give the latest racing information.
7.10 p.m.—Dalgin's market reports (wheat, wheat and stock).
7.15 p.m.—Fruit and vegetable markets.
7.25 p.m.—Weather and shipping news.
7.35 p.m.—"Evening News" late news service (see above).

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
7.45 p.m.—The Leoni Instrumental Quartet:
(a) "Knight Firmly" Overture (Bendix)
(b) Flute solo, "Perfect Day"
(c) Violin solo, "Hungarian Fantasy" (Waltz).

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

- 2FC.—Farmer's Broadcasting Station, Ltd., Sydney, wavelength 442 metres, power 5000 watts.
2BL.—Broadcasters' Ltd., Sydney, wavelength 312 metres, power 1000 watts.
2GB.—The General Broadcasting Station, Ltd., Sydney, wavelength 312 metres, power 3000 watts.
2BY.—Trades and Labor Council, Sydney, wavelength 230 metres, power 1500 watts.
2UW.—Dita Sandel, Sydney, wavelength 265 metres, power 500 watts.
2MK.—Mickle Beer, Bathurst, wavelength 312 metres, power 310 watts.
2H.—Electricity Light and Supply Co., Sydney, wavelength 252 metres, power 550 watts.
2BK.—Bargin Electric Co., Sydney, wavelength 216 metres, 150 watts.
2ND.—H. A. Douglas, Newcastle, wavelength 285 metres, 180 watts.

- 3 p.m.—"Bire Ben." From Her Majesty's Theatre, Pitt Street, Sydney—by permission of Messrs. J. O. Williamson Limited.
"CAPTAIN OF THE AIR"

- Act One.
Musical Numbers:
Music by Percy Wentlich.
Opening Ensemble: "The Girl" (Grove Song).
Song, "Two Little True Little Blue (Little Eyes)" (Five Allen Song).
Song, "Love's Refrain" (Hazel Walker Song).
Song, "Lovers of Love" (Roxana Knott Song).
Duet, "His, He, He"
Duet, "The Other Fellow's Girl" (Gus Rhoad Song).
Song, "If you are in love with a girl" (Ray Rhoad Song).
Song, "First kiss of love" (Bessie Ronald Duet).
"I would like to fondle you"
Ensemble, "Lovers of Love" (Roxana Knott and Ray Rhoad).
Finale: "Swing" (L. Dink, Worcester, U.S.A.).
3.5 p.m.—From The Studio, N. J. Kay and talk of noted Stage Villain.
4.10 p.m.—Glen Relys, Lotie Ferguson.
M. Channing Mind, from "La Boheme" (Pavoni).
4.20 p.m.—Cottman and Harris, Instrumental Items.

- 4.35 p.m.—Win and Windie, English Entertainers.
4.50 p.m.—Gladys Reminiscence Prepared by Mr. Franklin Harrow.
5.05 p.m.—The Louis Quartet, Instrumental:
(a) "Hello, Hello"
(b) Medley of Jazz Numbers (see above).
5.10 p.m.—"Big Ben," Win and Windie English Entertainers.
5.15 p.m.—"A J'ope, Scotch Comedian.
(a) "The Loochie" (Cros).
(b) "The Centenario" (West).
5.18 p.m.—Glen Relys, Lotie Ferguson.
(a) "Serenade" (Strizins).
(b) "Wagonwheel" (Dreier).
(c) "Song in Spring Time" (Schubert).
5.25 p.m.—Cottman and Harris, Instrumental.
5.35 p.m.—Lalot Weather Forecast, Len Maurice, Popular Baritone.
5.55 p.m.—"Oce Morrison's Dance Band."
6.05 p.m.—Al Free, Scotch Comedian:
"I've Just Come up for the Day" (Lottinger).
6.10 p.m.—"Oce Morrison and His Glimmer-chasers."
6.27 p.m.—Late News and Announcements.
7.15 p.m.—"Big Ben," Oce Morrison and His Glimmer-chasers.
7.25 p.m.—Len Maurice.
7.35 p.m.—"Oce Morrison and His Glimmer-chasers."
7.50 p.m.—National Anthem, Close Down.

2BL, SYDNEY.

Broadcaster's Ltd.
Wave Length, 263 Metres.

Friday

EARLY MORNING SESSION.

7 a.m. to 9 a.m.

Burgess Went Over the Hole with Byrd.

MORNING SESSION.

- 10.30 a.m.—G.P.O. Clock and chimes.
Musical programme from the studio.
10.40 a.m.—News from the "Daily Telegraph"
Piccadilly.
10.58 a.m.—Musical programme from the
studio.
11 a.m.—G.P.O. Clock and chimes. Announce-
ments.
11.15 a.m.—Musical programme from the studio.
11.15 a.m.—Women's Section.—Talk on
"Sport" by Miss Gwen Varley, Broadcasters
Women's Sports Authority.
Social Notes.—Senties to correspondents by
Mrs. Jordan. Talk on "Feeding the
Family" by Mrs. Jordan.
11.30 a.m.—G.P.O. Clock and chimes. Special
Ocean Forecast and weather report.
12.3 p.m.—Musical programme from the studio.
12.8 p.m.—Information. Mails, Shipping and
port directors.
12.14 p.m.—Boats in call by wireless.
12.18 p.m.—Fruit Market report.
12.18 p.m.—Vegetable Market report.
12.17 p.m.—London Metal Market report.
12.19 p.m.—Dairy and Farm Produce Market
report.
12.22 p.m.—Foreage Market report.
12.24 p.m.—Fish Market report.
12.26 p.m.—Rabbit Market report.
12.28 p.m.—Stock Exchange report.
12.30 p.m.—H.M.V. Gramophone Recital.
1.27 p.m.—Stock Exchange report.
1.30 p.m.—G.P.O. Clock and chimes. Talk to
children and special entertainment for chil-
dren 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, directors
Miss de Coester, Bremer.
2.30 p.m.—G.P.O. Clock and chimes.
News from the "Sun."
2.40 p.m.—Talk on "Homecrafts" by Pricella.
4 p.m.—G.P.O. Clock and chimes.
Civil Service Stores Trio.
4.15 p.m.—Serial Story.
4.35 p.m.—Musical programme from the studio.
4.40 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
Session.
8.50 p.m.—Musical programme from the studio

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.
Australian Mercurian Land and Finance
Co's Report.
Weather report and forecast by courtesy of
Govt. Meteorologist.
Professors Distributing Society's Fruit and
Vegetable Market report.
Stock Exchange report.
Grain and Fodder report ("Sun")
Dairy Produce report ("Sun")
Eucharistic Conference Notice.
7.15 p.m.—Country News from the "Sun."
7.20 p.m.—Talk by Mr. Gregory of the
N.R.M.A.
7.25 p.m.—Talk on "Gardening Science" by
Mr. Cooper, Park Superintendent City
Council.
8 p.m.—G.P.O. Clock and chimes.
Broadcasters' Instrumental Trio:
Dulcie Ridd, Violin.
Bryce Carter, cello.
G. Vern Barnett, piano.
8.15 p.m.—Mr. Phil Mountain (light comedian)
presents two comedy songs.
8.20 p.m.—Miss Millie Hughes, soprano.
8.27 p.m.—Dorothy Manning and Harry Gra-
ham in song and story.
8.45 p.m.—Broadcasters all sports expert will
talk on cricket.

- 8.57 p.m.—Weather report and forecast by
courtesy of Mr. C. J. Maree, Govt. Meteorolo-
gist.
8.58 p.m.—Resume of following day's pro-
gramme.
9 p.m.—G.P.O. Clock and chimes.
9.1 p.m.—Description by Mr. Basil Kliche of
the Champion boxing contest, transmitting
from the Stadium, Ruckhousers Bay.
9.15 a.m.—Mr. Phil Mountain.
9.52 p.m.—The sporting editor of the "Sun"
will talk on the prospects of Saturday's
race.
10.12 p.m.—Miss Millie Hughes.
10.15 p.m.—Dance Music by Denny Hogan's
Prizes list transmitting from the ballroom
of the Broad Casino. During intervals be-
tween dances news items by courtesy of the
"Sun" newspapers will be read from the
studio.
11 p.m.—G.P.O. Clock and chimes.
National Anthem.

NIGHT SESSION.

- 8.5 p.m.—Address by Dr. P. K. Rownt.
8.50 p.m.—Songs by Miss, Elsie Brown.
1. "If no one ever marries me" (Lehmann).
2. "Happy Song" (del Ringel).
8.53 p.m.—Talk (illustrated) arranged by
Phyllis Campbell.
9 p.m.—Address by Mr. J. K. Powell.
9.15 p.m.—Songs by Elsie Brown.
1. "The Sweetest flower that blows" (Raw-
ley).
2. "Carissima" (Penn).
9.23 p.m.—Solo.
9.30 p.m.—Instrumental Quartet, Dan Scully,
Murielle Lang, Ada Brook.
9.35 p.m.—Talk.
10 a.m.—Close down.

2GB, SYDNEY

Through Broadcasting Service.

Wave Length, 316 Metres.

Friday.

MORNING SESSION

- 9 a.m.—Music.
9.5 a.m.—Choric Talk.
9.55 a.m.—Psychological Class.
9.40 a.m.—Music.
9.48 p.m.—Health and Diet.
10 a.m.—Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Music.
2.37 p.m.—Address.
3.52 p.m.—Music.
4 p.m.—Address.
4.22 p.m.—Music.
4.30 p.m.—Close down.

EVENING SESSION.

- 7 a.m.—Music.
7.15 p.m.—Benediction Service.
7.40 p.m.—Address by Mr. A. E. Bennett.
7.55 p.m.—Instrumental Trio, Dan Scully,
Murielle Lang, Ada Brook.

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

- 31.0.—Broadcasting Company of Aus-
tralia, Ltd., Melbourne, wavelength
311 metres, power 5000 watts.
3AR.—Associated Radio Co. Ltd., Mel-
bourne, wavelength 484 metres, power
5000 watts.
4QT.—Queensland Radio Service, Bris-
bane, wavelength 325 metres, power
5000 watts.
6CL.—Central Broadcasters' Ltd.,
Adelaide, wavelength 295 metres,
power 1000 watts.
6WF.—Westralian Farmers, Ltd., Perth,
wavelength 1230 metres, power 5000
watts.
7ZL.—Tasmanian Broadcasters, Ltd.,
Hobart, wavelength 516 metres, 3000
watts.
3DR.—The ADB Broadcasting Co. Pty.,
Ltd., Capital House, Melbourne,
wavelength 255 metres, power 400
watts.
JUZ.—O. J. Niles & Co., Melbourne,
wavelength 315 metres, power 100
watts.
4GR.—Gold Radio Electric Service, Too-
woomba, Queensland, wavelength 234
metres, power 100 watts.
3EA.—Spert Radio Broadcasting
Station, Adelaide, wavelength 358
metres, power 1000 watts.
3DN.—3DN Pty. Ltd., Adelaide, wave-
length 312 metres, 200 watts.

2 UW, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

Friday.

MORNING SESSION.

- 8 a.m.—News, shipping, mails, studio items.
8.45 a.m.—Women's section.
9.30 a.m.—Resume of forward programme.
10 a.m.—Close down.
12.15 p.m.—Special employees' luncheon session.
12.45 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—Studio items.
2.30 p.m.—Resume of forward programme.
3 p.m.—Close down.

EVENING SESSION.

- 5 p.m.—Studio items.
6.59 p.m.—Resume of forward programme.
8 p.m.—Close down.

NIGHT SESSION.

- 7 p.m.—"Boners" selection.
7.4 p.m.—Where to Go.
7.10 p.m.—Pianoforte solo selected.
7.15 p.m.—Miss Ailene O'Connor
Songs at the piano.
7.21 p.m.—Thos. Simpson's "Golden Bell
Band."
7.31 p.m.—Miss Cecily Ellis, Mezzo soprano:
Selected.
7.35 p.m.—Mrs. A. Pearce, violin solo
Selected.
7.40 p.m.—Studio items.
7.44 p.m.—Thos. Simpson's "Golden Bell
Band."
7.54 p.m.—Miss Daria Fitzmaurice, clo-
selyminist: Selected.
8.00 p.m.—Thos. Simpson's "Golden Bell Band."
8.10 p.m.—Miss Cecily Ellis, Mezzo soprano:
Selected.
8.16 p.m.—Studio selection.
8.20 p.m.—Mrs. A. Pearce, violin solo:
Selected.
8.20 p.m.—Miss Doris Fitzmaurice, elec-
tionist: Selected.
8.28 p.m.—Miss Janet Patterson, pianoforte
solo:
"Scherzo in G. Minor" (Chopin).
8.41 p.m.—George F. Manuel, tenor:
"Caliste Aids."
8.45 p.m.—Thos. Simpson's "Golden Bell
Band."
9 p.m.—Weather forecast and news items.
9.5 p.m.—George F. Manuel, tenor:
"Thank God for a Garden."
9.18 p.m.—Miss Janet Patterson, pianoforte
solo:
"Romance."
9.15 p.m.—Studio selections.
9.25 p.m.—Resume of forward programme.
9.30 p.m.—God Save the King.

Over-size Burgess for Heavy Current Drains.

3LO, MELBOURNE.

Friday.

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

MIDDAY SESSION.

12 noon—MELBOURNE OBSERVATORY TIME SIGNAL.

12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. Reuter's and the Australian Press Association cables. British official wireless news from Rugby. "Argus" news service.

12.26 p.m.—COMMUNITY SINGING IN THE STUDIO. Conductor, Mr. G. MACKAY. Assisted by STUDIO QUARTET.

SOLOISTS—

JOHN D. FRASER, baritone:

"Ave Maria" (Schubert).

"Salmon."

ALMA HORLOCK, soprano:

"Three Green Sonnets."

"Lackaday" (Crampin).

1.46 p.m.—Under the auspices of the National Safety Council of Australia, SNR, COMSTABLE LAMPERT, of the Police Department, will speak on:

"Safety First in Our Countries."

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

1 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—Melbourne Observatory Time Signal.

3.1 p.m.—HOYT'S GARDINER REGENT ORCHESTRA:

"Spring Song" (Mendelssohn).

"Volga Boat Song."

3.16 p.m.—MISS FRANCES FRASER:

"Quiet Nooks in London."

3.23 p.m.—HOYT'S GARDINER REGENT ORCHESTRA:

Selection: "Bokeme" (Puccini).

3.29 p.m.—MARIE MAGAN, soprano:

"Le Cloche" (Lalo).

"Sing not, fair Circassian Maid."

3.35 p.m.—No. 1 AIRCRAFT DEPOT—POINT COOKE—*et. Pass.*

Description by Mr. Norman McCance.

3.37 p.m.—E. MASON WOOD, baritone:

"Sam Fevers" (Ireland).

"To Antioch."

3.44 p.m.—HOYT'S GARDINER REGENT ORCHESTRA:

"The Swan" (Saint Saens).

3.49 p.m.—MARIE MAGAN, soprano:

"Rymn au Soleil" (Rachmaninoff).

"Chacon Indienne" (Rachmaninoff).

3.56 p.m.—HOYT'S GARDINER REGENT ORCHESTRA:

Waltz No. 1, "Home, Sweet Home" (Amber).

3.59 p.m.—E. MASON WOOD, baritone:

"You in a Gondola" (Clarke).

"Off to Philadelphia" (Haynes).

4.10 p.m.—MRS. M. CALLAWAY MAROOD:

Personalities in Art.

"The Gentle Art of Making Enemies."

4.18 p.m.—"Herald" news service. Stock exchange information.

4 p.m.—Arrival at No. 1 AIRCRAFT DEPOT.

POINT COOKE, of

"Father Christmas" by Arnelelle.

Description by Mr. Norman McCance.

4.56 p.m.—Close down.

EVENING SESSION.

5.20 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."

5 p.m.—STUDIO QUARTET

"The Two Guitars" (Herlick).

5.16 p.m.—CAPT. DONALD MACLEAN:

"Pirates and More Pirates."

5.22 p.m.—PETER DAWSON, bass-baritone:

"The Pirate Song" (Gilbert).

"The Smuggler's Song" (Kernan).

5.28 p.m.—"BILLY BUNNY." "The Adventures of the Treasure Seekers."

5.46 p.m.—Official report of Newmarket Stock

Market by the Associated Stock and Station Agents, Bourke Street, Melbourne. Number of sheep and cattle drawn for week's

sales.

5.49 p.m.—"Herald" news service. Weather

synopsis. Shipping movements.

5.52 p.m.—Stock Exchange information.

5.57 p.m.—Fish market reports by J. R. Bor-

rett, Ltd. Rabbit prices.

5.59 p.m.—River reports.

7.1 p.m.—Market reports by the Victorian

Producers' Co-operative Co., Ltd. Poultry,

grains, hay, straw, jute, dairy products,

potatoes and onions. Market reports of

fruit by the Victorian Fruit Merchants' As-

sociation. Citrus Fruit.

NIGHT SESSION.

7.18 p.m.—Under the auspices of the Depart-

ment of Agriculture

MR. J. M. WARD, Superintendent of Horti-

culture will speak on "The Apple Ex-

port Industry."

7.43 p.m.—COLLINGWOOD CITIZENS'

BAND:

March, "Marine Artillery."

Fox Trot, "For My Sweetheart."

7.52 p.m.—MR. E. K. LOVE:

"Technicalities."

Mr. Love will be glad to attend to your

wireless difficulties and we ask you to

write to him for any advice that you may

require.

8.2 p.m.—COLLINGWOOD CITIZENS BAND

Selection: "Gems of Italian Opera."

8.12 p.m.—GERTRUDE HUTTON, contralto:

"I Came with a Song" (La Forge).

"If You were Blind" (Johnson).

8.19 p.m.—MOANA LUA DUO:

"Hawaiian Melodies."

8.24 p.m.—COLLINGWOOD CITIZENS

BAND:

Trombone solo "The Victory."

Soloist, A. Thorne.

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, 206 Metres. Silent

Night, Thursday.

4YA, Dunedin, The Radio

Broadcasting Co. of New

Zealand, Ltd.

Power 750 Watts; Wave-

length, 463 Metres.

5.31 p.m.—VICTORIA WILSON soprano:

"Black Room" (Sibolus).

"Invitation" (K. Barry).

5.40 p.m.—MAGGIE FOSTER, violin:

"Flaute d'Amour."

"Maggie Blues."

5.49 p.m.—COLLINGWOOD CITIZENS'

BAND:

Waltz, "Gypsy Love."

5.56 p.m.—Mr. David Maclesteron, "Million

Chilling Fun."

9 p.m.—Announcements.

The Royal Automobile Club of Victoria's

Safety Message for today is for MOTOR-

ISTS:

"Always keep yourself and your vehicle

in safe driving order. Be completely master

of it, and do not drive if you are not

physically fit to do so."

Under the auspices of the Health Associa-

tion of Australia the HEALTH MESSAGE for

to-day is:

"Do not lose your hours of recreation that

each day you, someone work with a clear

eye and a clear head, physically and men-

tally alert, so as to be as well equipped as

you follow."

8.4 p.m.—NORMAN BENNETT, tenor:

"A Pleasant Journey" (Honeywood) (Willy

Ganz).

Songs from the Chinese—AFTER—(Re-

hected)

9.11 p.m.—MOANA LUA DUO:

Hawaiian Melodies.

9.16 p.m.—GERTRUDE HUTTON, contralto:

"Peace" (Schubert).

"Wonder Why" (Raymond).

9.23 p.m.—COLLINGWOOD CITIZENS'

BAND:

Carnet solo, "Silver Threads Among the

Gold."

Pare solo, "Sweet and Low."

9.32 p.m.—"CARDIAN" Mr. H. A. Wolfe,

sporting editor of the "Argus" and "Aus-

tralian," will speak on to-morrow's race.

9.42 p.m.—COLLINGWOOD CITIZENS'

BAND:

"Bocherini Minuet."

Grand March, "Edin."

9.52 p.m.—Meteorological information. Read

down. Island alsooper information.

10 p.m.—MAGGIE FOSTER, violin:

"When Song is Sweet."

"Liebestrahl" (Kreisler).

10.16 p.m.—NORMAN HILL, comedian:

"Number One."

10.41 p.m.—COLLINGWOOD CITIZENS'

BAND:

Soloist, "A Rustic Holiday."

10.24 p.m.—"Argus" news service. British

official wireless news from Rugby.

10.31 p.m.—NORMAN BENNETT, tenor:

"Mountain Voice" (Raymond Trehan).

Tells His (Lovers).

10.38 p.m.—NORMAN HILL, comedian:

"A Song for the Holidays."

10.44 p.m.—JOE ARONSON AND HIS

SYNCRONATING SYMPHONISTS:

Selections

11 p.m.—OUR GREAT THOUGHT:

"The Eternal begins the immortal.

Love is the spirit of life, and

Musk the life of the spirit." (Chapin)

11.1 p.m.—JOE ARONSON AND HIS

SYNCRONATING SYMPHONISTS:

11.49 p.m.—GOD SAVE THE KING.

4QQ, 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.

1.20 p.m.—Lunch hour signal.

1.36 p.m.—Standard time signal.

2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—A programme of music from the Studio.
4.15 p.m.—"The Telegraph" news.
4.50 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—"Daily Standard" news, weather information, announcements.
6.15 p.m.—Lectures: A Law Talk, "First Principles of Probate Law," by Mr. C. E. Stewart (Barrister-at-Law).
6.30 p.m.—Bedtime stories, by "The Sandman."
7 p.m.—Market reports, stock reports.
7.30 p.m.—Weather news, announcements: "Daily Standard" news.
7.45 p.m.—Standard time signal.
7.55 p.m.—Lectures: A Queensland's Impression of Rural Europe—the last of a series, by Mr. J. F. E. Reid, Editor, Queensland Agricultural Journal.

NIGHT SESSION.

C.C.M. CONCERT.

To-night's programme has been arranged by the C.C.M. and will be relayed from the Company's Rooms, Creek and Adelaide Streets
8 p.m.—FROM THE C.C.M.:
March, "The Hammer" (Travis).
C.C.M. Orchestra.
Soprano solo, "Garden" (Lena Wilson).
Mrs. A. Jordan.
Pianoforte solo, "With Nocturne" (J. Liszt).
Miss J. McDonald.
Baritone solo, "Didn't You But Know" (Wright).
Mr. A. N. Falk.
Violin solo, "Serenade" (Franz Italia).
Mr. Allan Harris.
English Concertina:
(a) "D. Poveretti Ignobilo"
(b) "D. Terezi Poveretti."
(c) "As The In Morte."
Mr. and Miss Griffiths.
Alto solo, "Dear Old Dad" (Allan Baird).
Master Earl Brown.
Pianoforte duet, "Spring Festival" (H. Liebner).
Misses Thelma Harris and Rita Blake.
Tenor solo, "O Soli Mio."
Mr. G. Cashman.

Contralto solo, "The Spring of Pearls" (Philips).
Miss I. McEwain.

Vocalist, "Garden of Lilies" (Ormsby).
C.C.M. Orchestra.
Elocutionary Item, Selected.
Miss Steyer.
Fox Trot, "Honey" (Hilly).
C.C.M. Orchestra.
Soprano solo, "Spring Awakening" (Sanderson).
Mrs. A. Jordan.

Pianoforte solo, "Polaris" Op. 46, No. 2 (Chopin).
Miss Rashelle Phillips.

English Concertina:
(a) "El Balon Del Sol."
(b) "The Blue Bell."
Mr. and Miss Griffiths.

Contralto, "An Embroid" (Jack Thompson).
Mrs. R. J. Brown.

Tenor solo, "Merrill" (Oley Speck).
Mr. G. H. Cook.

Baritone solo, "Drinks Goes West" (Sanderson).
Mr. A. N. Falk.

Pianoforte solo, "Valse Chromatique" (Godard).
Miss Thelma Harris.

Recitation, Selected.
Miss Daphnia Rowe.
One Step, "Kendy's Strathine" (King).
C.C.M. Orchestra.

Pianoforte duet, "Fete Champenoise" (C. Leberre).
Misses Thelma Harris and Rita Blake.
Tenor solo, "The Pal That I Loved."
Mr. G. Cashman.

Violin solo, Intermezzo from "Cavaleria Rusticana" (Mascagni).
Mr. Allan Harris.
Fox Trot:
(a) "What a Marvellous Girl" (Olson).
(b) "Original Moonlight"
C.C.M. Orchestra.

10 p.m.—FROM THE STUDIO:
Daily News news, sporting news.
Close down.

5CL, ADELAIDE

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

Friday.

MIDDAY SESSION.

12 noon to 2 p.m.

AFTERNOON SESSION.

3 p.m.—Chimes.
3.1 p.m.—Orchestral selections from the Maple Leaf Cafe:
Selection, "The Boy" (Tolson).
Fox Trot, "Sensation" (Albors).
Valse De, Allouettes (Drigo).
Melodie, "Love's Sacrifice" (Clarke).
Fox Trot, "Sweetie o' Mine" (O'Hagan).
3.40 p.m.—Musical numbers from the Studio.
4 p.m.—Chimes.
4.1 p.m.—Orchestral selections from the Ardenia Cafe:
Selection, "The Wheel of the World" (Chaplin).
Fox Trot, "Down Kentucky Way" (Gillies).
Waltzes Dressed (Wagner).
Pianoforte Solo (Valse Huette) (Drigo).
Duple, "Caravan" (Joyce).
Fox Trot, "Hello, Hillybird" (Friend).
Concert Solo, "A Beautiful" (Flanders).
4.37 p.m.—S. C. Ward and Co.'s Stock Exchange Intelligence.
5 p.m.—Chimes.

EVENING SESSION.

8 p.m.—Chimes.
8.1 p.m.—Organ music by Covent Gardens Orchestra:
Selection, "Framquita" (Leger).

Fox Trot, "That Certain Feeling" (Gershwin).
Waltz, "I'm a longin' for you" (Hathaway).
Oriental, "In a Persian Market" (Kretschy).
Foxtrot, "Schumanna" (arr. Sear).
8.30 p.m.—Children's time, birthday greetings, acknowledgment of children's correspondence and general information.
A playlet for children.
7.15 p.m.—Rowing talk, arranged by Rowing Association.
7.35 p.m.—Market reports by A. W. Sandford and Co., A. E. Hall and Co., Dalgety and Co., S. A. Farmers' Co-operative Union, Taylor Bros., Retail Grocers' Association, J. H. Young, Retail Grocers' Association, market, Interstate Fruit and Produce Market Co., Ltd., S. C. Ward and Co.'s Stock Exchange Intelligence.
7.40 p.m.—Windbag's sporting advice.
7.55 p.m.—Willow will talk on cricket.
8 p.m.—Chimes.
8.1 p.m.—Orchestral selections by Malcolm Reid and Co.'s Orchestra, relayed from warehouse.
8.20 p.m.—Selections by Mr. F. L. Gratton's Boys' Choir.
8.25 p.m.—Orchestral selections by Malcolm Reid and Co.'s Orchestra.
8.35 p.m.—Song, Jas. Riley.
8.40 p.m.—Orchestral selections by Malcolm Reid and Co.'s Orchestra.
9 p.m.—Chimes.
9.1 p.m.—Meteorological information.
9.4 p.m.—Dalgety's wheat report.
9.5 p.m.—Selections by Mr. F. L. Gratton's Boys' Choir.
9.50 p.m.—Song, Jas. Riley.
9.56 p.m.—Mr. A. T. Jeffries (Agricultural Chemist, Roseworthy Agricultural College, talk on "Salty Soils".
9.45 p.m.—Bass solo, F. G. Guster.
9.50 p.m.—Violin solo, Helen Magaroy.
9.55 p.m.—Song, F. G. Guster.
10 p.m.—Chimes.
10.1 p.m.—"Advertiser" news service.
10.15 p.m.—Violin solo, Helen Magaroy.
10.20 p.m.—Bass solo, F. G. Guster.
10.25 p.m.—Relay from the Maillon De Danne, (Genev) Selections.
11.10 p.m.—Saturday's programme and meteorological information.
11.15 p.m.—National Anthem and close down.

6WF, PERTH

Westralian Farmer's.
Wave Length, 1250 Metres.

Friday.

FOREIGN BROADCASTERS.

JOAK—Nagoya Radio Broadcasting Co., Nagoya, JAPAN; 350 metres, 1000 watts. (Announcement in English and Japanese).
JOBK—Osaka Central Broadcasting Co., Osaka, JAPAN; 385 metres, 1000 watts. (Announcement in English and Japanese).
JOAK—Tokyo Broadcasting Co., Tokyo, JAPAN; 375 metres, 1000 watts. (Announcement in English and Japanese).
JRFV—Bataviaische Radio Vereeniging, BATAVIA, 220 metres, 40 watts.
KZRM—Manila, PHILIPPINE ISLANDS; 413 metres, 1000 watts. (Announcement in English and Philippine).
KGI—"Honolulu Advertiser," Honolulu, HAWAII, 270 metres, 500 watts.
KGO—Oakland, CALIFORNIA; 361.3 metres, 500 watts.
KEI—Los Angeles, CALIFORNIA, 467 metres, 5000 watts.
KOA—Denver, COLORADO; 322.4 metres, 5000 watts.

12.30 p.m.—Tune in.
12.35 p.m.—Melbora, News and Calico.
1 p.m.—Time Signal from Perth Observatory.
1.1 p.m.—Voice notes supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Quintette Orchestra.
2 p.m.—Close down.
2.30 p.m.—Tune in.
2.35 p.m.—Organ music relayed from Grand Theatre.
Vocal selections from the studio.
4.30 p.m.—Close down.
6.15 p.m.—Tune in.
The Evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
6.50 p.m.—Stories by the Uncle and Auntie.
7.30 p.m.—Late News supplied by "The Daily News" Newspaper Coy. Second Local News Bulletin supplied by courtesy of "The West Australian" Newspaper Co.
7.35 p.m.—Stock and Share Intelligence supplied by courtesy of Messrs. Saw and Greenwood Limited.
Market reports supplied by the Westralian Farmers and Producers Markets Limited.
Chimes supplied by arrangement with the Australian Press Association.
7.45 p.m.—Racing Talk by the Sporting Editor of the "Truth" Newspaper Co.
8 p.m.—Time Signal from Perth Observatory.
8.1 p.m.—Weather news supplied by the Meteorological Bureau of Western Australia.

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

POPULAR NIGHT.

- 8.0 p.m.—Items by the Misses Mason and Husley. Instrumental Duo of the six Estabrooks.
Vocal Artists.
9.0 p.m.—Talk by Mrs. Mary Farrell on "How to Feed the Family with less money and for greater efficiency."
9.30 p.m.—From the Stadium:
Description of Boxing Match given in detail by the Sporting Editor of the "Truth," relayed from the Stadium.
Promoters: Moore, Karp and Lewis.
10.10 p.m.—Late news, weather and shop window announcements.
10.30 p.m.—Close down.

104.3 METRES TRANSMISSION.

Simultaneous broadcast on 104.3 metres of programme given on 1550 metres, commencing at 8.45 p.m.

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 516 Metres.

Friday

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

- 2.30 p.m.—G.P.O. Clock chimes the hour.
2.45 p.m.—News in selection.
3.0 p.m.—Hobart Stock Exchange Quotations.
Weather information.
News of interest—announcements.
3.15 p.m.—Selections from "The Studio Trio."
Solo Music from "Rhapsodies" (Schubert).
Solo, "Summer Day" (Coates).
"Beverly" (d'Ambrasio).
Solo, "A Lover in Damasco" (Woodford).
Cello Solo: Selected (Miss Beattie Lamb).
"Serenade Lyric" (Eggar).
"Toccata et Andante" (Rubinstein).
Violin Solo: Selected (Mr. E. J. McCann).
"Toccata" (Lacombe).
4.15 p.m.—Educational Talk.
4.30 p.m.—Close Down.

EARLY EVENING SESSION.

- 8.00 p.m.—Children's Corner with the "Radio Lady."
7.5 p.m.—Young Folks gardening chat by Mr. George Nation.
NIGHT SESSION.
7.30 p.m.—Musical selection.
Fruit Faculty and produce reports through the courtesy of Roberts and Co. Ltd., Hobart.
7.35 p.m.—Weekly gardening talk by Mr. George Nation—Glen Nurseries, Camacho.
7.40 p.m.—"Mystery" special Tasmanian news service. Railway auction produce sales. Hobart Stock Exchange quotations.
8.00 p.m.—G.P.O. Clock chimes the hour.
8.1 p.m.—Concert from the studios:
Miss Ruth Wallace (soprano), Miss Rita Pierce (piano), Miss Bertha MacCallan (organ), Mr. Harry Foster (baritone), Stuart Victor Pharoah (bass solo), Mr. Thomas Dow (baritone).
8.30 p.m.—Orchestral chat by "Mid-off."
8.40 p.m.—British Official Wireless News.
9.00 p.m.—"Mystery" special Interstate news service. Ships within wireless range. Tasmanian District Weather reports. Station announcements—to-morrow's programme. Travellers week-end information. National Anthem.

Saturday, Dec. 3
2FC, SYDNEY

EARLY MORNING SESSION.

7.0 a.m. to 8.0 a.m.

MORNING SESSION.

- 10.0 a.m.—"Big Ben" and Announcements.
10.3 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.
11.0 a.m.—"Big Ben" Studio Music.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio Music.
11.15 a.m.—A Talk on Gardening by Mr. G. J. Lockley ("Redgum").
11.30 a.m.—Close Down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and Announcements.
12.2 p.m.—Stock Exchange from call.
12.3 p.m.—Studio Music.
12.30 p.m.—"Sydney Morning Herald" News Service.
12.35 p.m.—Hague Wireless News.
12.35 p.m.—Studio Music.
NOTE.—During the Afternoon Results of the A.S.C. Meeting at Warwick Farm, will be given as received.
2.0 p.m.—"Big Ben," Weather Intelligence.
2.10 p.m.—"Evening News" Midday News Service.
2.20 p.m.—Studio Music.
2.30 p.m.—The Crystal Palace Theatre Orchestra, from the Crystal Palace Theatre, Geneva, Switzerland.
NOTE.—During the intervals of singing, recitals and other sporting events, musical items will be given, including—
"The Ritz Melodians," Instrumental Trio.
Syl Montrose, Ukulele Numbers, and The Crystal Palace Theatre Orchestra.
4.30 p.m.—Complete Record of the Day's Sporting Events.
5.0 p.m.—"Big Ben"; Close Down.

EARLY EVENING SESSION.

- 8.0 p.m.—The Chimes of 2FC.
8.15 p.m.—The "Radio Man" Talks to the Children.
8.30 p.m.—Story Time for the Young Folk.

Short Wave Broadcasters

Schedules and Wavelengths Subject to Change.

2NF, Leyland Marconi, Caterham, England, 20 and 35 metres (B.D.C. Programme).

P.O.J. Philips' Experimental Station, Eindhoven, Holland, 30.2 metres (B.D.C. Programme).

2XAV, General Electric Co., Hoboken, N.J., New York State, U.S.A., 22.7 metres (W.G.L. Programme).

2XAG, General Electric Co., Schenectady, New York State, U.S.A., 18 and 52 metres (W.G.L. Programme).

KDRA, Westinghouse Electric Co., Pittsburgh, Pa., U.S.A., 63.5, 14 and 42 metres.

W.L.W. Crowley Radio Corporation, Cincinnati, Ohio, U.S.A., 72 metres.

2XAL, "Radio News," New York City, U.S.A., 30.91 metres (WRNY Programme).

J.B. Johannesburg Broadcasting Commission, South Africa, 20 and 25 metres.

5BY, Marconi Company, Chelmsford, England, 24 metres.

5YD, Marconi U.S.R.R., 25 metres.

- 6.10 p.m.—Studio Music.
7.0 p.m.—"Big Ben"; Weather Intelligence.
7.15 p.m.—Late Sporting News.
7.30 p.m.—"Evening News" Late News Service.
7.35 p.m.—Studio Music.

NIGHT SESSION.

- 7.40 p.m.—Programme Announcements.
7.45 p.m.—Jean Gerrard, Melopiano, numbers.
7.55 p.m.—R. A. Harrison, Baritone.
(a) "The Banker's Daughter" (Lohmann).
(b) "Mina, All Mina" (Hacker).
8.0 p.m.—"Big Ben"; Andrew Higginson and Eric Lavis, Entertainers:
(a) "Smilin' Through" (Penn).
(b) "Gee Day" (Johnson).
8.10 p.m.—Mabel Batchelor, Soprano.
8.15 p.m.—Roy Bean, Whistling Vocals:
(a) "The Nightingale Waltz."
(b) "Bird Impassioned" (Johnson).
8.20 p.m.—Scott Alexander will present an original Cooledge Ball Radio Comedy, entitled:
"A Pair of Goats and a Brass of Goats," A Modern Comedy of Curious Coincidences.
8.25 p.m.—Andrew Higginson and Eric Lavis, Entertainers:
(a) "Patzer."
(b) "Grandfather's Whiskers" (Webster and Walsh).
(c) "When I am Dead My Dearest" (Tavak).
8.30 p.m.—The "Two Festive Carolers":
(a) "Babe, Your Mother" (Gurky).
(b) "Doll Dances" (Brown).
8.35 p.m.—Roy Gerrard, Melopiano numbers.
8.40 p.m.—"Big Ben"; Weather Forecasts.
8.45 p.m.—The Ambassadors' Dance Orchestra, conducted by Al Hattum.
8.50 p.m.—R. A. Harrison, Baritone from the Studio:
(a) "Old Furniture" (Arendale).
(b) "The Wagoner" (Hosmer).
8.55 p.m.—Roy Bean, Whistling Vocals:
(a) "Song of the Wanderer."
(b) "The Farmer's."
9.00 p.m.—Andrew Higginson and Eric Lavis, Entertainers:
(a) "Pictor."
(b) "Play Me" (Duprez).
(c) "Eyes That Used to Gaze in Mine" (Lair).
9.05 p.m.—The Ambassadors' Dance Orchestra, conducted by Al Hattum.
9.10 p.m.—From the Studio: "The Two Festive Carolers":
(a) "Woodch Water" (Pittard).
(b) "Just the Same" (Dunham).
9.15 p.m.—Roy Bean, Whistling Vocals:
"Roses March."
9.20 p.m.—Mabel Batchelor, Soprano.
9.25 p.m.—From the Ambassadors' The Am. Banding Orchestra, conducted by Al Hattum.
9.30 p.m.—Late News and Announcements.
9.35 p.m.—"Big Ben"; The Ambassadors' Dance Orchestra in popular numbers, until 12.25 p.m.
NOTE.—During the dance intervals at the Ambassadors' Musical Items will be heard from the Studio.
12.25 p.m.—National Anthem; Close Down.

2BL, SYDNEY

Saturday.

EARLY MORNING SESSION.

7.0 a.m. to 8.0 a.m.

MORNING SESSION.

- 11.0 a.m.—G.P.O. Clock and Chimes; Musical Programme from the Studio.
11.15 a.m.—Women's Section; Social Notes; Replies to Correspondents; Mr. John Jordan, Talk on "Simple Cooking for Children" by Mrs. Jordan.

AFTERNOON SESSION.

Have Results Broadcast Immediately After Each Item by means of the "8.00" News Service.

12 noon.—G.P.O. Clock and Chimes; Special Ocean Forecast and Weather Report.

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

12.50 p.m.—News from the "Sun."

12.55 p.m.—Sports and Athletic Fixtures.

12.57 p.m.—What's on at the Picture and Theatres.

12.59 p.m.—Musical Programme from the Studio.

12.40 p.m.—News from the "Sun."

12.50 p.m.—Racing Results.

12.55 p.m.—Musical Programme from the Studio.

1.0 p.m.—G.P.O. Clock and Chimes; Musical Programme from the Studio.

1.10 p.m.—Sporting Talk and Athletic Fixtures for the Day.

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

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

2.0 p.m.—G.P.O. Clock and Chimes; Racing Results.

2.25 p.m.—Serial Story.

2.30 p.m.—Musical Programme from the Studio.

2.39 p.m.—G.P.O. Clock and Chimes; News from the "Sun."

2.40 p.m.—Musical Programme from the Studio.

2.55 p.m.—News from the "Sun."

3.0 p.m.—G.P.O. Clock and Chimes; Racing Results.

3.15 p.m.—Musical Programme from the Studio.

3.20 p.m.—News from the "Sun."

3.25 p.m.—Musical Programme from the Studio.

3.40 p.m.—News from the "Sun."

3.45 p.m.—Musical Programme from the Studio.

3.50 p.m.—News from the "Sun."

4.0 p.m.—G.P.O. Clock and Chimes; Racing Results.

4.5 p.m.—Musical Programme from the Studio.

4.59 p.m.—News from the "Sun."

5.0 p.m.—G.P.O. Clock and Chimes.

5.10 p.m.—Musical Programme from the Studio.

5.20 p.m.—News from the "Sun."

5.30 p.m.—G.P.O. Clock and Chimes; Broad-casters' Topical Chat.

5.35 p.m.—Broad-casters' Instrumental Trio: Duke's Blair Violin.

5.40 p.m.—Mr. Oliver Peacock (Tenor), presenting his Own Original Songs.

5.45 p.m.—Miss Dulcis Blair (Soprano Soloist).

5.50 p.m.—Miss May Kennedy (Comedy Singer).

5.55 p.m.—Dance Music by Cyril Kaye and The Wentworth Cafe Orchestra, transmitting from the Ballroom of the Wentworth.

6.00 p.m.—Miss Heather Kinnaird (Contralto Soloist).

6.05 p.m.—Dance Music by Cyril Kaye and The Wentworth Cafe Orchestra.

6.10 p.m.—Broad-casters' Instrumental Trio.

6.15 p.m.—Dance Music by Cyril Kaye and The Wentworth Cafe Orchestra.

6.20 p.m.—Mr. Oliver Peacock presenting some of his Own Original Songs.

6.25 p.m.—Dance Music by Cyril Kaye and The Wentworth Cafe Orchestra.

6.30 p.m.—Resume of Following Day's Programme.

10.5 p.m.—Broad-casters' Instrumental Trio.

10.15 p.m.—Cyril Kaye and The Wentworth Cafe Orchestra.

12 midnight.—G.P.O. Clock and Chimes; National Anthem.

2 UW, SYDNEY

Saturday.

7 p.m.—Sonata selection.

7.15 p.m.—Where to go.

7.30 p.m.—Dance selections from the studio.

8.00 p.m.—Ragtime, fox-trot, and news items.

8.8 p.m.—Humor selections from the studio.

8.25 p.m.—Resume of forward programme.

8.30 p.m.—God Save the King.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

11 a.m.—JOE ARONSON AND HIS SYNCO.

"In An Oriental Garden" (Hayes).

"Meet Me in the Moonlight" (Davis).

"So Blue" (De Sisti).

11.10 a.m.—MARY THIRWALL, soprano.

"The Popularity of Flinders" (De Ceeck).

"Wind Song" (Bowers).

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

"Blue Skies" (Berlin).

"Down of To-morrow" (Green).

"Boss Lee" (Ash).

11.25 a.m.—JOHN D. FRASER, baritone.

"When I See You" (Gounod).

"The Last Hour."

11.30 a.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.

"Who's She Next?" (Yellen).

"Grady Words Crang Tane" (Yellen).

"There's a Trick in Pielin's a Chick Chick Chicken" (Lubian).

11.40 a.m.—MARY THIRWALL, soprano.

"Each Morning" (Pohl).

"Dalen" (Nawley).

11.45 a.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.

"Just a Little Bit of Heaven" (Brazz).

"She's Got It" (Davis).

"Stepping in Society" (Kastl).

12 noon.—Melbourne Observatory Time Signal.

Help to keep your city clean and beautiful: don't throw newspapers and fruit peel about. Be active in your responsibilities. Don't say "That is somebody else's work." Cultivate an individuality of your own.

12.1 p.m.—Metal prizes received by the Australian Mines and Metals Association from the British Stock Exchange this day.

British Official Wireless News from Rugby. Boulder's and the Australian Press Association cables. Argo news service.

12.20 p.m.—STUDIO QUARTETTE.

Selection, "No. Na, Nannie."

12.30 p.m.—JOHN D. FRASER, baritone.

"Mighty Lak, a Rose."

"Mountain Lovers."

12.37 p.m.—Stock Exchange Information.

12.40 p.m.—MAGGIE FOSTER, violin.

"Boulevard de Rubenstein" (Cyril Monk).

"Gavotte."

12.47 p.m.—VERONICA COX, soprano.

"Rendez-vous" (Aletier).

"The Bird Ga North Again" (Wilbye).

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

"Who-oo! You-oo That's Who" (Oliver).

1 p.m.—Melbourne Observatory Time Signal.

MIDDAY SESSION.

1.1 p.m.—ALAN MITCHELL, tenor.

"My Liege Lady" (Montague Phillips).

"The Dream" (Rubenstein).

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

1.18 p.m.—STUDIO QUARTETTE.

Selection, "Katie."

1.25 p.m.—VERONICA COX, soprano.

"Song of the Open" (La Forge).

"The Ladies with the Delicate Air" (Arns).

1.30 p.m.—STUDIO QUARTETTE.

Selection, "Tell Me More."

1.40 p.m.—ALAN MITCHELL, tenor.

"In Some Time of Reason."

"Maddala" (Wm. James).

1.47 p.m.—Under the auspices of the Safety Council of Australia, MR. H. J. BOOK (Secretary), will speak on "Safety Education and Safety in the Home."

2.1 p.m.—Description of Hurdie Race, two miles; V.R.C. BENEVOLENT FUND MEETING, MOONEE VALLEY, by Market, of The Sporting Globe.

2.5 p.m.—Description of Cricket Match, St. Kilda v. Collingwood, at St. Kilda, by Mr. Rod McFarquhar.

2.12 p.m.—Close down.

2.40 p.m.—Description of Two-year-old Handicap, four furlongs; V.R.C. BENEVOLENT FUND MEETING, MOONEE VALLEY, by Market, of The Sporting Globe.

2.55 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—Melbourne Observatory time signal.

3.1 p.m.—Description of Welter Plate, 4 furlongs; V.R.C. BENEVOLENT FUND MEETING, MOONEE VALLEY, by Market, of The Sporting Globe.

3.5 p.m.—HARRY SHUGG'S STUDIO BAND.

Selection, "La Traviata" (Verdi).

Intermezzo, "Hypatia" (Bume).

3.10 p.m.—Description of Cricket Match, St. Kilda v. Collingwood, at St. Kilda, by Mr. Rod McFarquhar.

3.30 a.m.—Description of Fund Handicap, 1 1/4 miles; V.R.C. BENEVOLENT FUND MEETING, MOONEE VALLEY, by Market, of The Sporting Globe.

3.35 p.m.—Progress reports of Victorian Tests for Australia and New Zealand track and field games championships, at Amateur Sports Ground.

3.50 p.m.—HARRY SHUGG'S STUDIO BAND.

Comedy opera, "La Coquette" (Laurent).

Waltz, "Soubire las Olan" (Rouss).

March, "Our Chaplin" (Rimmer).

4.10 p.m.—Description of Highweight Handicap, 1 mile; V.R.C. BENEVOLENT FUND MEETING, MOONEE VALLEY, by Market, of The Sporting Globe.

4.15 p.m.—Description of Cricket Match, St. Kilda v. Collingwood, at St. Kilda, by Mr. Rod McFarquhar.

4.20 p.m.—Progress reports of Victorian tests for Australian and New Zealand track and field games championships, at Amateur Sports Ground.

4.25 p.m.—HARRY SHUGG'S STUDIO BAND.

March, "Independendenta" (Hall).

Tenor solo, G. J. G. O'DRISCOLL'S "The Ragtime Race Hayer" (Fryer).

Waltz, "Will o' the Wisp" (Bourne).

4.40 p.m.—Description of Welter Purse, six furlongs; V.R.C. BENEVOLENT FUND MEETING, MOONEE VALLEY, by Market, of The Sporting Globe.

4.45 p.m.—Progress report of Victorian tests for Australian and New Zealand track and field games championships, at Amateur Sports Ground.

4.55 p.m.—Herald news service. Stock Exchange information.

5.10 p.m.—Description of cricket match, St. Kilda v. Collingwood, at St. Kilda, by Mr. Rod McFarquhar.

5.20 p.m.—Close down.

EVENING SESSION.

5.30 p.m.—Sponsoring Results.

5.40 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKA-BURRA."

6.10 p.m.—STUDIO QUARTETTE.

"March Minnows" (Jaanse).

6.17 p.m.—LITTLE MISS KOOKABURRA.

"Bun for the Little One."

6.27 p.m.—STUDIO QUARTETTE.

"Lollia" (Friedl).

RADIOKES— SOLODYNE COIL KIT

*Is Specified for the Five Valve Receiver
Described in this issue.*

If you are desirous of constructing a splendid shielded 5 valve, 3 control receiver, read the constructional article in this issue.

Remember that other imitations will not do. Radiokes Solodyne Coil Kits are the best that can be produced, and furthermore, are the only guaranteed Solodyne Kits.

Radiokes fostered the Solodyne in this country, and they have continually improved their well known Coil Kit.

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The World's Best Coil Kit, 75/- each.

Read what an Eminent Sydney Radio Man says about our Solodyne Kits:

Metropolitan Electric Co., Ltd.,
Dear Sirs.

4 Neutral Street, North Sydney.
Oct. 14, 1927.

As a builder of High-class Receiving Sets, it may be of interest to you to know the wonderful results I have achieved using the "Radiokes Shielded Coils."

I have built and rebuilt 35 Elstree Solodyne Sets during the past six months, using exclusively "Radiokes Shielded Coils," after experimenting with other makes.

I have not had one failure, and every set has been a super set. This success I attribute to the excellence of the coils used.

To anyone in doubt as to the merits of these coils, I shall be pleased to demonstrate any evening.

Yours faithfully, F. MOWER.

FROM ALL GOOD DEALERS OR DIRECT
METROPOLITAN ELECTRIC CO., LTD.
27-29 King Street, Sydney

6.34 p.m.—LITTLE MISS NOOKABURRA: "The Ploody Patrol" (continues).
 6.40 p.m.—Sporting Results.
 6.45 p.m.—"Herald" News Service; Weather Synopsis; Shipping Movements.
 6.52 p.m.—Stock Exchange Information.
 6.57 p.m.—River Reports.
 7.0 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.; Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions; Market Reports of Fruit by the Victorian Fruitgrowers' Association; Retail Prices; Wholesale Prices of Fruit by the Wholesale Fruit Merchants' Association; Citrus Fruits.

NIGHT SESSION.

7.15 p.m.—MR. CLARENCE WEBER: "Health Talk."
 7.30 p.m.—MR. E. PESCOFF: "Australian Fibre Plants."
 7.45 p.m.—"THE LEGACY CLUB": Talk by A. "Legals."
 8.0 p.m.—BRUNSWICK CITY BAND: March, "Moray Firth."
 8.5 p.m.—SOUTHERN CHORAL SOCIETY (Production: Graham Burgin), (Pianist: Olive McKillop): "Loch Lomond."
 9.15 p.m.—MRS. GRAHAM BURGIN, Soprano: "Angus MacDonald."
 9.16 p.m.—BRUNSWICK CITY BAND: Overture: "Prince Charles" (Vocal).
 9.25 p.m.—GERTRUDE ARMISTHONG, Piper: "Scottish Airs."
 9.33 p.m.—GRAHAM BURGIN, Baritone: "Mary."
 9.37 p.m.—BRUNSWICK CITY BAND: Fantasia, "Fair Maid of Perth" (Vocal). (With vocal solo from the Southern Choral Society).
 9.57 p.m.—SOUTHERN CHORAL SOCIETY: "The Banks of Don."
 "An Enchanted Love Lull" (arr. by Robertson) INTERLUDE.
 10.0 p.m.—MR. J. HOWLETT ROSS: "Peter Lahr and the Eureka Stockade Battle."
 MUSICAL COMEDY.
 10.10 p.m.—"The Charlie" PRINCE: transmitted from His Majesty's Theatre, by permission of J. C. Williamson, Ltd. Acts II. and III.—Music by Sigmund Romberg, Lyrics and Book by Dorothy Donnelly with the Royal Comic Opera Company.

SYNOPSIS OF MUSICAL NUMBERS.

ACT II.

"Farmer Jankel," STUDENTS (off stage)
 "Student Life," PRINCE ENGEL, KATHIE, GRETCHEN, DETLEF, LUCAS, VON AETERBERG, TONI, and STUDENTS.
 "I'm a Rebel," DEAN, FRINKE, and KATHIE
 "Deep in My Heart," ENTIRE COMPANY
 ACT III.
 WALTZ, ENSEMBLE.
 "Just We Two," PRINCESS, TARNITZ and COMPANY.
 Gavotte.
 Finale, KARL, FRANZ, KATHIE, ENGEL and STUDENTS.

FROM THE STUDIO.

10.30 p.m.—BRUNSWICK CITY BAND, Cornet Solo, "The Nightingale."
 Soloist: A. McEwan.
 10.40 p.m.—Late Sporting Results.
 The Royal Automobile Club of Victoria's Safety Message for to-day is for PREVENTION:
 "Always look both ways before crossing. Don't suddenly step off the footway without looking, and with your back to on-coming traffic."
 Under the auspices of the Health Association of Australasia, the HEALTH MESSAGE for to-day is—
 "People would have better health if they would remember that the stomach is a workroom, and not a playhouse."
 10.52 p.m.—BRUNSWICK CITY BAND: March, "The Quarter Column" (Hemel).

11.0 p.m.—OUR GREAT THOUGHT: "Music is a discipline and a mistress of order and good manner"—Luther.
 Make Victoria More Musical. Subscribe to the Million Shilling Fund.
 11.1 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS.
 11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Saturday.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

Q.T.C. RACES.

The Q.T.C. Club's Race Meeting will be described direct from the Course at Ascot. During the afternoon 4QG's Racing Commissioner will describe the running of each race, and between races gramophone music will be broadcast from the Studio.
 1.45 p.m.—FROM MASCOT RACECOURSE: Racing Descriptions.
 4.00 p.m.—Close down.

EARLY EVENING SESSION.

8.30 p.m.—Eadline stories, by "Uncle Ben."
 7.18 p.m.—Racing results.
 7.30 p.m.—Today's sporting news described.
 7.30 p.m.—Sailing Notes by Mr. F. Smith.
 7.45 p.m.—Lecturette: "A Gardening Talk—"Dalhousie," by "Tetona."

NIGHT SESSION.

VIOLIN RECITAL.

Two-night's programme will comprise a Violin Recital, arranged by Mr. L. A. Farn, and relayed from "The Hall of the Muses," George Street, Brisbane.
 8 p.m.—FROM THE HALL OF THE MUSES: Violin Recital.
 10 p.m.—FROM THE STUDIO: "The Sunday Mail" news, weather news.
 Close down.

Note: During the evening the main race at Geelong Park Speedway will be described.

5CL, ADELAIDE.

Saturday.

MORNING SESSION.

11 a.m.—Chimes.
 11.1 a.m.—"Advertiser" news service.
 11.30 a.m.—Musical numbers on the Sonora.
 11 noon.—Chimes and close down.

AFTERNOON SESSION.

12.45 p.m.—Running description of the Gawler Jockey Club Race Meeting, by Mr. Arnold Treloar, interspersed with interstate sporting results and musical numbers.
 6.15 p.m.—Approx. close down.

EVENING SESSION.

8 p.m.—Chimes.
 8.1 p.m.—Dinner music by the Queen's Garden's Orchestra.
 Selection, "Mignon" (Thomas).
 Fox Trot, "Tisaday" (Connelly).
 Waltz, "Memories Melody" (Williams).
 Noveltie, "The Streets" (Miles).
 Finale, "The Trump Singer" (Simson).
 8.30 p.m.—Children's Game, birthday greetings, misanthropism of children's correspondence and general information.
 Biographical story: Songs for children.
 7.25 p.m.—Market reports by A. W. Sandford and Co. A. E. Hall and Co. Daley and Co. A. S. Farmers Co-operative Union. Taylor Bros. Retail Grocers' Association. H. Young's special report on the tomato market. Interstate Fruit and Produce Market Co., Ltd. S. C. Ward and Co's Stock Exchange Intelligence.

7.30 p.m.—Sporting results.
 6 p.m.—G.P.O. chimes.
 6.1 p.m.—Band concert from the Bentley Beach Bandstand by Holden's Silver Band, interspersed with descriptions of events at Bentley on Torrens' Regatta. Fireworks and vocal and instrumental numbers.
 6 p.m.—Talk by Rev. G. K. Hale, B.A.
 9.15 p.m.—Band concert continued.
 10 p.m.—Chimes.
 10.1 p.m.—Sporting results, local, and interstate.
 10.15 p.m.—Solo by the Maison De Danse.
 11.10 p.m.—Sunday's programme.
 11.35 p.m.—National Anthem and close down.

6WF, PERTH.

Saturday.

12 p.m.—Tune in.
 12.15 p.m.—Musical programme, including pianoforte solos by Miss Evelyn Willis, A.R.C.M.
 12.47 p.m.—Markos, News and Cables.
 1.8 p.m.—Time Signal from Perth Observatory.
 1.11 p.m.—Weather notice, supplied by the Meteorological Bureau of Western Australia.
 1.2 p.m.—Close down.
 1.40 p.m.—Tune in.
 Detailed Description of Races relayed from the Ascot Racecourse.
 Cricket scores given from the various clubs throughout the Metropolitan Area.
 Vocal and Instrumental items from the studio.
 6.30 p.m.—Close down.
 6.45 p.m.—Tune in.

The evening transmission is broadcast on 104.5 metres, well as on 610-metre wavelength.
 6.50 p.m.—Uncles Henry and Duffy talk to the kiddies.
 7.15 p.m.—Sporting results.
 7.25 p.m.—Second Local news Bulletin supplied by courtesy of "The West Australian" Newspaper Co.
 Late News Items supplied by courtesy of "The Daily News" Newspaper Co.
 Market reports supplied by the Western Australian Farmers and Producers Markets Limited.
 Cables supplied by arrangement with the Australian Press Association.

7.45 p.m.—Talk.
 8 p.m.—Time Signal from Perth Observatory.
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 8.3 p.m.—Musical Evening from the Studio with Vocal and Instrumental Artists.
 10 p.m.—Late News Items supplied by courtesy of "The Daily News" Newspaper Co.
 Signs within metre announcement.
 Weather report and forecast.
 10.30 p.m.—Close down.

1015 METRE TRANSMISSION.
 Simultaneous Broadcast of 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

7ZL, HOBART

Saturday

MORNING SESSION.

11 a.m. to 12 noon.

AFTERNOON SESSION.

8 p.m.—Broadcast by direct wire from North Hobart Oval Eye-witness description of A Grade Cricket Match, Newtown v. North Hobart by "Mid-off."
 Close down.

EARLY EVENING SESSION.

8.30 p.m.—"Uncle Neeter" talks to the children.
 7 p.m.—"Uncle Peter's" half hour.

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CHARACTERISTICS AS PER THIS TABLE.

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Type	H.F.	L.F.	D06	D06	D06	MD06	D3
Filament voltage.	3.2—3.5	3.2—3.8	3.0	2.5—3.0	3.0	3.0	1.8—2.0
Filament current, amps.	0.6	0.6	0.6	0.6	0.6	0.6	0.3
Anode voltage ..	30—90	30—90	50—125	20—100	50—100	30—100	50—125
Total emission, m/a.	5	5	8.0	8.0	8.0	8.0	8.0
Impedance, ohms.	50,000	30,000	60,000	17,000	17,000	17,000	60,000
Purpose	Radio, also Resistance Coupling	Audio	Radio, also Resistance Coupling	Detector	Audio	Audio	Radio, also Resistance Coupling
	6/-	6/-	6/-	7/6	7/6	7/6	7/6
Type	D3 Det.	D3 L.F.	MD3	DFA0	DFA1	DFA3	DFA4
Filament voltage.	1.6—2.0	1.6—2.0	1.8—2.0	3.5	5.5	5.5—6.0	5.5
Filament current, amps.	0.3	0.3	0.3	0.35	0.2	0.6	0.2
Anode voltage ..	20—100	30—100	30—100	50—100	50—100	50—100	20—125
Total emission, m/a.	8	8.0	8.0	20.0	25.0	15.0	15.0
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Mullard

THE MASTER VALVE

NIGHT SESSION.

7.30 p.m.—Musical selection.
 7.35 p.m.—Talk under the auspices of the Hobart Development League.
 7.50 p.m.—"Burgess" special Tasmanian news service. Railway auction produce sale. Weather information.
 Hobart Stock Exchange quotations.
 8 p.m.—G.P.O. Clock chimes the hour.
 8.15 p.m.—Dance numbers by Pavilion Dance Band, City Hall, Hobart.
 9 p.m.—Nature Lesson Book opened by Mr. F. G. Roberts, Tasmanian's Naturopath.
 10.10 p.m.—British Organ Wireless news. Ships without wireless range. Weather information. Station announcements.
 10.30 p.m.—Close down.

Sunday, Dec. 4

2FC, SYDNEY

MORNING SESSION.

10.35 a.m.—Programme Announcements.
 11.0 a.m.—From the Studio: Methodist Mission, Lyceum Hall, Pitt Street, Sydney. The Morning Service. Preacher, Rev. A. J. Gould.
 12.15 p.m.—From the Studio: News Session.
 12.35 p.m.—Close Down.

AFTERNOON SESSION.

2.0 p.m.—"Big Ben": From the Christ Church, St. Laurence. An Organ Recital by Mr. Christian Heilmann.
 Organ, "Grave and Fugue, Sonata in C Minor" (Reubke).
 Solo, "My Hope is in the Everlasting" (Stainer).
 James J. Donnelly, Baritone.
 Organ, "Lantlène" (Wheeler).
 Aria, "I Know That My Redeemer Liveth" (Handel).
 Miss Olive Procter.
 Organ:
 (a) "Impromptu" (Heilmann).
 (b) "Scherzo in F Minor" (Heilmann).
 Solo, "Jesu, Laver of My Soul" (Heilmann).
 James J. Donnelly, Baritone.
 Organ, "Andante, lit Organ Sonata" (Borowski).
 Solo, "How Lovely Are Thy Dwellings" (Liddle).
 Miss Olive Procter.
 Organ:
 (a) "Prelude in C Minor" (Heilmann).
 (b) "Toccata, in Organ Symphonies" (Widor).
 4.0 p.m.—From the Band Rotunda, Manly Beach: The Manly Municipal Band, Conducted by Mr. James Phelan.
 5.0 p.m.—"Big Ben": Close Down.

EVENING SESSION.

6.0 p.m.—"Big Ben": And Announcements.
 6.5 p.m.—Bryson Taylor, Tenor:
 "The Hallowed Home" (Haydn Woods).
 7.0 p.m.—Mr. E. H. Jordan, A Talk, "How to Listen to Music."
 7.22 p.m.—Winifred Jenner, Mezzo:
 (a) "The July Miller" (Quilter).
 (b) "Two Frogs" (Howell).
 7.47 p.m.—Bryson Gibb, in a short story: "The Last Leaf."
 6.42 p.m.—Dorren Walsh will present a programme of Maori Music, including a talk on the music, legends and mythopoetic conceptions of the Maoris of New Zealand, and songs composed by Miss Walsh who is a native of the Dominion. These songs will be interpreted by:
 Bryson Taylor, Tenor.
 Norman McLennan, Baritone.
 Winifred Jenner, Mezzo.
 8.22 p.m.—Norman McLennan, Baritone.
 8.37 p.m.—"The Bell of St. Mark's."
 7.30 p.m.—From the St. Mark's Church of England, Darling Point, Evening Service. Hymn, "Through the Night of Doubt and Sorrow."
 Evening Prayer.
 Scott's Hymn, "Be Prepared."
 Dedication of colours.
 Girl Guides' Prayer.

Beatal and Chant of Guide Laws.
 Hymn, "Fight the Good Fight."
 Address, by Rev. Canon Lee.
 Hymn, "The Day Thou Gavest Lord is Ended."
 Delivery of Colours.
 8.25 p.m.—From the Band Rotunda, Manly Beach: The Manly Municipal Band, Conducted by Mr. James Phelan.
 9.10 p.m.—From the Studio: The second appearance of Mr. Peter Gawthorne, Well-known Scottish Baritone. Mr. Gawthorne will present a group of songs from Musical Comedies of the Edwardian Period.
 (a) "Freedom" from "Great Slave."
 (b) "The One in the World," from "San Toy."
 (c) "My Own Little Girl," from "The Country Girl."
 9.42 p.m.—Lionel Lawson, Violinist.
 9.52 p.m.—Peter Gawthorne, English Baritone. Songs from Musical Comedies of the Edwardian Period:
 (a) "The Letter Song," from "Veronique."
 (b) "Noblesse Oblige," from "Duchess D'Antic."
 (c) "At My Lady's Feet," from "My Lady Molly."
 10.2 p.m.—Lionel Lawson, Violinist.
 10.10 p.m.—National Anthem; Close Down.

2BL, SYDNEY

Sunday.

MORNING SESSION.

10.45 a.m.—Special News Service.
 11.0 a.m.—Service Broadcast from Randwick Presbyterian Church. Address by Rev. W. J. Grant; Organist, Miss Kathleen O'Neill; Choirmaster, Mr. G. W. Sherring.
 12.0 p.m.—Close Down.

AFTERNOON SESSION.

2.0 p.m.—G.P.O. Clock and Chimes.
 From the Studio: Special Session for Children in Hospital.
 2.15 p.m.—A Recital by courtesy of H.M.V. Gramophone Company. Half an Hour with Tschickowsky: Third Movement, Symphonie Pastorale; Don Juan Serenade.
 Violin, Chausson.
 Song, "To the Forest."
 Violin, Melodie.
 Flute, March.
 2.45 p.m.—Information Service.
 3.0 p.m.—G.P.O. Clock and Chimes; Close Down.
 3.30 p.m.—G.P.O. Clock and Chimes; Bible Class, conducted by Mr. W. Cairns' Bradley.
 4.0 p.m.—G.P.O. Clock and Chimes.
 4.1 p.m.—A Pleasant Hour with the Central Methodist Mission, Balmain.
 5.0 p.m.—G.P.O. Clock and Chimes; Close Down.

NIGHT SESSION.

8.45 p.m.—G.P.O. Clock and Chimes.
 9.45 p.m.—From the Studio: Children's Service.
 7.0 p.m.—Evening Service Broadcast from St. Andrew's Baptist Church, Address by Rev. G. A. Craik, Organist and Choirmaster, Mr. Fred Searl.
 8.30 p.m.—From the Studio: Mr. Lance Jeffrey (Tenor).
 8.34 p.m.—Mr. Gordon Rodda (Piano Solo).
 8.41 p.m.—Miss Helena Stewart (Soprano).
 8.45 p.m.—Broadcasters' Instrumental Trio:
 Dilett. Trio Violin
 Strp. Carter Violin
 G. Vern Barnett Piano
 8.55 p.m.—Mr. Peter Sutherland (Bass).
 8.50 p.m.—Weather Report and Forecast by Courtesy of Mr. C. J. Marx, Government Meteorologist.
 9.0 p.m.—G.P.O. Clock and Chimes.
 9.1 p.m.—Miss Amy Outings (Contralto).
 9.5 p.m.—Broadcasters' Instrumental Trio:
 0.15 p.m.—"Wind Flowers." A Song Cycle composed by Arthur Somervell. Presented under the direction of Mr. G. Vern Barnett. Soprano, Helene Stewart.
 Contralto, Amy Outings.
 Tenor, Lance Jeffrey.
 Bass, Peter Sutherland.
 Quartette, "Twist Me a Crown of Wind-Flowers."

Quartette, "High Over the Breakers."
 Contralto Solo, "The Wind Has Such a Rainy Sound."
 Quartette, "Hope is Like a Harebell."
 Duet, "Two Doves on the Self Same Branch."
 Quartette, "Music When Soft Voices Die."
 Tenor Solo and Quartette, "When the Mounting Sky-lark Sings."
 Bass Solo and Quartette, "Windy Night."
 Finale, "All Around the House is the Jet Black Night."
 9.55 p.m.—Mr. Gordon Rodda.
 9.57 p.m.—Resumé of Following Day's Programme.
 10.0 p.m.—G.P.O. Clock and Chimes.
 10.1 p.m.—Broadcasters' Instrumental Trio.
 10.21 p.m.—Close Down.

2GB, SYDNEY

Sunday.

MORNING SESSION.

10.15 a.m.—Music from St. Alban's (Lubert).
 Catholic Church, Sydney.
 10.30 a.m.—Morning Service from St. Alban's, Modern.
 12 p.m.—Close down.

EVENING SESSION.

6.45 a.m.—Music from the Studio.
 7 p.m.—Lecture from Adyar Hall.
 8 p.m.—Songs by Miss K. M. Daniels.
 8.18 p.m.—Piano solo: ADA BROOK.
 8.25 p.m.—Violin solo: L. BREWER.
 8.32 p.m.—Songs by Miss K. M. DANIELS.
 8.40 p.m.—Address.
 9 p.m.—Close down.

2UW, SYDNEY

Sunday

MORNING SESSION.

10.30 a.m.—Orchestral selection:
 "O Sole Mio" (M. J. Sini).
 10.34 a.m.—Contralto solo:
 "The Song of Spring" (Samson and Delilah) (Saint-Saens).
 10.45 a.m.—Pianoforte solo:
 "La Cathedrale Engloutie" (Debussy).
 10.42 a.m.—Studio selection.
 10.50 a.m.—Organ solo:
 "Twilight Melody" (Mesie).
 10.53 a.m.—Tenor solo:
 "Mother Mackere" (Ball).
 11 a.m.—Instrumental Trio:
 "Serenade" (Schubert).
 11.1 a.m.—Studio selection.
 11.5 a.m.—Bassoon solo:
 Old French Air, with variations.
 11.12 a.m.—Tenor solo:
 "A Little Bird in Heaven" (Bressan-Balli).
 11.16 a.m.—Organ solo:
 "Marche Feste" (Messe).
 11.20 a.m.—Orchestral selection:
 "The Palomares, The Dove, Postorn (Yradier).
 11.24 a.m.—Studio selection.
 11.30 a.m.—Pianoforte solo:
 Selections from "Kissing Time"
 11.38 a.m.—Contralto solo:
 "Knows thou that Land" (Mignon).
 11.42 a.m.—Studio selection.
 11.45 a.m.—Pianoforte solo:
 "The Harmonious Blacksmith" (Handel).
 11.50 a.m.—Studio selection.
 11.58 a.m.—Bassoon solo:
 "Poet and Peasant" (Von Suppe).
 12.0 p.m.—Studio selection.
 12.4 p.m.—Instrumental trio:
 "Intermezzo" (Cavalleri Rusticani) (Massenet).
 12.10 p.m.—Selections from the studio.
 12.28 p.m.—Resumé of forward programme.
 12.30 p.m.—Close down.

EVENING SESSION.

7 p.m.—Studio selection.
 8.30 p.m.—Mrs Sylvia Churchill, Mezzo-soprano:
 "Oh Flower Divine" *

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On White Wings Across the Pacific

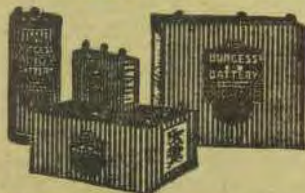
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"Pride of Detroit" on its successful flight across the Atlantic to London and Munich.

Alexander Revell on his Field Museum Expedition to Alaska, 1927.

"Sir John Garling" and "Royal Windsor" on the Dole Prize Flight to Honolulu and the winners, Art Goebel and Lieut. William Davis in the "Woolaroc".

Capt. Wilkins on his Arctic Expedition.

7.54 p.m.—Miss Mabel Ramsbottom, violin solo; Selected.
 7.58 p.m.—Studio selections.
 7.40 p.m.—Douglas Rae, tenor: "I hear you calling Me" (Matahal).
 7.45 p.m.—Miss Sylvia Churchill, mezzo soprano: "The Blind Ploughman."
 7.50 p.m.—Miss Mabel Ramsbottom, violin solo selected.
 7.55 p.m.—Studio selections.

NIIGHT SESSION.

8.5 p.m.—Douglas Rae tenor: (a) "Down Town" (Braker). (b) "Requiem" (Homer).
 8.11 p.m.—Studio selection.
 8.15 p.m.—Miss Sylvia Churchill, mezzo soprano: "Sink Red Satin."
 8.20 p.m.—Studio selection.
 8.25 p.m.—Miss Mabel Ramsbottom, violin solo selected.
 8.30 p.m.—Studio Selections.
 8.40 p.m.—Douglas Rae, tenor: "I hear a Thrush at Eve" (Gudman).
 8.45 p.m.—Miss Mabel Ramsbottom, violin solo selected.
 8.50 p.m.—Miss Sylvia Churchill, mezzo soprano: "A Song Remembered."
 8.54 p.m.—Studio selections.
 8.58 p.m.—Review of forward programmes.
 9.00 p.m.—God save the King.

3LO, MELBOURNE

Sunday.

MORNING SESSION.

10.30 a.m.—Bells from St. Paul's Cathedral. Express train information. News from yesterday's papers. British Official Wireless News.
 MORNING SERVICE FROM FIRST CHURCH OF CHRIST, SCIENTIST, MELBOURNE, ST. EILDA ROAD.
 11 a.m.—Voluntary Organ, Quartette and Chorus, E. Fiat Major (Novello).
 Hymn No. 237, "The heavens declare the glory of Him who made all things."
 Scripture Reading: John 45.
 Benediction, followed by the audible recitation of the Lord's Prayer, with its spiritual interpretation from page 16 of the Christian Science Text Book, "Science and Health with Key to the Scriptures," by Mary Baker Eddy.
 Hymn No. 197, "Oh! gentle presence" (Words by Mrs. Baker Eddy).
 Announcements.
 Solo, "God shall wipe away all tears" (by Arthur E. Sullivan), J. B. Craner and Co. Ltd.
 Offertory: Organ, Andante (Winter).
 Hymn No. 202, "Our God shall reign over the earth."
 Reading: The Scientific Statement of Being, from page 408 of the Christian Science Text Book, and the correlative Scripture, according to 1 John 3: 1-3.
 Benediction, Ephesians 8: 20, 21.
 Postlude: Organ, "Chorus of Major" (Handel).
 12.15 p.m.—Close down.

AFTERNOON SESSION.

ANNUAL ANNIVERSARY OF THE EUREKA STOCKADE RIOT: transmitted from Eureka Stockade Reserve, Eureka Street, Ballarat East. Chairman, Chairman Mr. R. A. Donner. Community Singing. Conductor, Mr. W. Namburys.
 1 p.m.—EUREKA STOCKADE ANNIVERSARY:
 Ballarat City Band.
 Chanticle, Mr. R. A. Donner.
 "All People that on Earth do Dwell."
 Prayer.
 "God Bless Australia."
 Address by Chaplain.
 "Lest We Forget."

4 p.m.—From Wesley Church. Address by Rev. J. D. Milten: "Our Supreme National Need."
 4.59 p.m.—Close down.

EVENING SESSION.

8.00 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."
 8 p.m.—"THE FID PIPELER," Hymn, "Father of Love."
 Solo, "Were You There?" (Spiritual). Organ and choir, "To a Wild Rose."
 Solo, "The First Cuckoo."
 Chorus, "Father Sun Looked Down One Day."
 Solo and chorus, "When Jesus was a Little Boy."
 Violin solo, "Gevvite" (Gosse).
 A Sleepy Time Song.
 8.25 p.m.—"BROTHER BILL," "Thank You, Sir."
 8.45 p.m.—Bells from St. Paul's Cathedral.

NIIGHT SESSION.

EVENING SERVICE FROM SCOTS CHURCH, COLLINS STREET, MELBOURNE.
 Minister: The REV. W. ROLAND, M.A., D.D.
 Organist: MR. MANSLEY GREER.
 7 p.m.—Psalm, Metrical Version, 247—18; Tune 224.
 Prayer.
 Prose Psalm, 130 and 131.
 Chants 204 and 205.
 Old Testament Lesson: Luke 15.
 Hymn 117.
 Prayer of Intercession.
 New Testament Lesson: St. Luke 11, 1-12.
 Anthem, "Comfort ye My People."
 "Every Valley."
 "And the Glory of the Lord."—"Messiah" (Handel).
 The Lord's Prayer (the congregation standing, will unite).
 Sermon, "PRAY PERSISTENTLY."—St. Luke 11: 7.
 Hymn 109.
 Invitation.
 Offertory, "Larghetto in F sharp minor" (S. Wesley).
 Hymn 617.
 Benediction.

FROM THE STUDIO.

8.00 p.m.—AGNES FORTUNE, piano "Nesturne" (Chopin).
 8.40 p.m.—NOEL SMITH, baritone: By permission of J. C. Williamson, Ltd. "Thanks be to God" (P. J. O'Helly). "The Lord is my Light" (Alban).
 8.47 p.m.—MR. J. HOWLETT BOSS will speak on "Robert Louis Stevenson," the anniversary of whose death occurs to-day.
 9.2 p.m.—MUSICAL PROGRAMME, arranged by PROFESSOR BERNARD HEINZE: String Quartet.
 Artists: BERNARD HEINZE, STANLEY TOMKINS, W. H. E. LAMBLE, LOUIS HATTENBACH.
 "Death and the Maiden," 1st and 2nd movements (Schubert).
 "Ballet in B," 1st movement.
 "Minuet in B" (Mozart).
 "Scherzo" (Mendelssohn).
 9.42 p.m.—NOEL SMITH, baritone: "If in the Great Bazaar" (Woodford Finsen).
 "Allah Be with Us" (Woodford Finsen).
 9.50 p.m.—"Argus" news service. Island steamer's movements. Announcements. The Royal Automobile Club of Victoria's SAFETY MESSAGE for to-day is for CYCLISTS: "Always keep well to the left when meeting or being overtaken by other vehicles. Always overtake all vehicles, except trams, on the right."

10 p.m.—OUR GREAT THOUGHT: "Every human soul has the germ of some flowers within; and they would open, if they could only find sunshine and free air to expand in. A heavy cold soo that will having enough of sunshine was what closed the world. Make people happy, and these will not be half the quarrelling, or a tenth part of the wickedness there is." (Mrs. Child).
 10.3 p.m.—"GOD SAVE THE KING."

4QG, BRISBANE.

Sunday.

MORNING SESSION.

ALBERT STREET METHODIST CHURCH.
 The complete Morning Service will be relayed from Albert Street Methodist Church.
 11 a.m.—FROM THE ALBERT STREET METHODIST CHURCH:
 Morning Service.
 12.30 p.m.—Close down.

AFTERNOON SESSION.

BAND CONCERT.
 The Band Concert will be relayed from the Brisbane Botanic Gardens.
 2.15 p.m.—FROM THE BOTANIC GARDENS: Band Concert.
 4.30 p.m.—Close down.

NIIGHT SESSION.

ALBERT STREET METHODIST CHURCH.
 The complete Evening Service will be relayed from the Albert Street Methodist Church.
 7 p.m.—FROM ALBERT STREET METHODIST CHURCH:
 Children's Service.
 7.30 p.m.—Evening Service.
 8.30 p.m.—Benediction.

BAND CONCERT.

At the conclusion of the Church Service the Concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.
 8.30 p.m.—FROM WICKHAM PARK: Band Concert.
 9.30 p.m.—Close down.

6WF, PERTH.

Sunday.

10.45 a.m.—Tune in.
 11 a.m.—Morning Service relayed from St. Mary's Roman Catholic Cathedral.
 12.10 p.m.—Close down.
 2.10 p.m.—Tune in.
 2.45 p.m.—Hospital Sunday:
 Under the auspices of the Charles Street Methodist Church a pleasant Sunday afternoon has been arranged by Mr. W. L. Menkens for 4th December.
 A special Orchestra under Mr. Val Smith will lead the singing, and special solo, including Mrs. E. Henscows, Mrs. H. J. Mann, Messrs. B. G. Nomic and M. Binney, will assist. The service will be presided over by Rev. E. H. O. Nye.
 4.30 p.m.—Close down.
 7 p.m.—Tune in.
 7.4 p.m.—Talk to the Children by Mr. R. Laxby of the Bible Students Association: Topic "Preparing Earth's Greatest Kingdom."
 7.50 p.m.—Evening Church service relayed from the Museum Street Baptist Church, Perth.
 A RELAY.
 8.45 p.m.—After-Church service relayed from Charles Street Methodist Church, West Perth.
 10.45 METRE TRANSMISSION.
 Simultaneous Broadcast on 104.5 metres of programme given on 1269 metres, commencing at 8.45 p.m.

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A BRITISH PRODUCT—BETTER AND CHEAPER

7ZL, HOBART

Sunday.

11 a.m.—Church Service from St. David's Cathedral, Hobart.
Close down.

AFTERNOON SESSION.

2.30 p.m.—Pleasant Sunday afternoon concert from the studio.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Children's Corner with the "Sunday" Lady.
7 a.m.—Close down.

NIGHT SESSION.

7 p.m.—Church Service from Chalmers Presbyterian Church, Hobart.
At conclusion of Church Service Band concert from St. David's Park or studio concert.
8.40 p.m.—"Mercury" special Interstate news service.
9.15 p.m.—British Official Wireless News.
Weather forecasts, Station announcements tomorrow's programmes.
National Anthem.

Monday, Dec. 5
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 p.m.—Last minute sporting information by the 2FC racing commission.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben" Studio and marching music for the school children.
11.5 a.m.—A.P.A. and Router's cable service.
11.15 a.m.—A reading.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.
12.1 p.m.—Stock Exchange, first call.
12.2 p.m.—Weather forecast, rainfall.
12.3 p.m.—Studio music.
12.35 p.m.—Summary of "Sydney Morning Herald" news service.
12.35 p.m.—Bucky wireless news.
12.50 p.m.—Studio music. Marching music for school children.
12.40 p.m.—Annie Payne, mezzo.
"Over the Stoops" (Greschlaanoff).
12.45 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.1 p.m.—"Evening News" midday news service.
1.20 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Annie Payne, mezzo.
"Wedding Song" (Kaku).
1.45 p.m.—Studio music.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

2 p.m.—"Big Ben" and programme announcements.
2.15 p.m.—Diano Booth, soprano.
"Cuckoo Calls" (Beah).
2.7 p.m.—Special Christmas records.
2.15 p.m.—Harry Jackson, baritone.
"Bird songs at twilight" (Coates).
2.30 p.m.—Special Christmas records.
2.50 p.m.—Marching music for school children.
3.40 p.m.—Ivy Duncan, soprano.
3.45 p.m.—Special Christmas records.

3.53 p.m.—Persis Raitter, soprano.
"Love's Yesterday" (Ayer).
3.57 p.m.—Special Christmas records.
4 p.m.—Diano Booth, soprano.
"The Amorous Goldfish" (Jones).
4.1 p.m.—Studio music.
4.10 p.m.—Harry Jackson, baritone.
"Kashmiri Song" (Flindt).
4.14 p.m.—Studio music.
4.20 p.m.—Ivy Duncan, soprano.
4.24 p.m.—Studio music.
4.30 p.m.—Persis Raitter, soprano.
"Because of You" (Solman).
4.34 p.m.—Studio music.
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

6.40 p.m.—The chimes of 2FC.
6.45 p.m.—The "Hello Man" talks to the children.
6.50 p.m.—Story time for the young folk.
6.50 p.m.—Studio music.
7 p.m.—"Big Ben." Late sporting news.
7.10 p.m.—Daigety'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.—Joe Cahill, entertainer.
"Mickey Doolan on the new dances" (Dunne).
"Arncliffe Day" (Digges).
7.53 p.m.—Studio music.
8 p.m.—"Big Ben." From the Haymarket Theatre, George-street, Sydney: items by the Haymarket Orchestra, conducted by Mr. Stanley Porter.
8.15 a.m.—From the Warringah Hall, North Sydney: The Christmas Wall of the North Sydney Orphans' Club.
The programme will include:
The 2FC Studio Dance Band.
Elsie Boyd, contralto.
"Hushen" (Nesbitt).
"The Silver Ring" (Charniade).
Charles Lawrence, entertainer.
William Howyer and William Smith, duet.
"Drink to Me only" (Johnson).
"A-Hunting we will go" (Filding).
Mabel Batchelor, soprano.
"Absence" (Covey).
Carols by the St. Andrew's Cathedral Choir Boys.
8.3 p.m.—From the Studio:
Lataze weather forecast.
9.20 p.m.—From the Baptist Hall, Dimer: items by the Sydney Harmonic Society's Choir, conducted by Mr. W. Bourne.
9.20 p.m.—From the Studio:
Joe Cahill, entertainer:
"Auntie" (Adams).
"A Business Trip" (Waiters).
9.30 p.m.—From the aptial Hall, Ultime: The Sydney Harmonic Society's Choir; conductor, Mr. W. Bourne.
9.45 p.m.—From the Studio:
A sketch on broadcasting, written by Mr. Scott Alexander, in celebration of 2FC's fourth birthday.
9.55 p.m.—From the Haymarket Theatre, George Street, Sydney:
The Haymarket Operatic Orchestra, under the baton of Mr. Stanley Porter.
10.3 p.m.—From the Warringah Hall, North Sydney:
Concluding items of the Christmas Wall by the North Sydney Orphans' Club:
The 2FC Studio Dance Band:
Kileen Boyd, contralto:
"The Sweetest Flower that Grows."
"My Ain Folk" (Lemon).
Charles Lawrence, entertainer.
William Howyer and William Smith, duet:
"Bostman's Song" (Abt).
Mabel Batchelor, soprano:
"Roshunda" (Crichton).
"Song of a Flute" (Galloway).
Carols by the St. Andrew's Cathedral Choir Boys.

10.30 p.m.—From the Studio:
Late weather forecast.
10.32 p.m.—From the Warringah Hall, North Sydney:
The 2FC Studio Dance Band in popular numbers.
10.47 p.m.—From the Studio:
Late news and announcements.
11 p.m.—"Big Ben."
From the Warringah Hall, North Sydney:
The 2FC Studio Dance Band.
11.30 p.m.—National Anthem.
Close down.

2BL, SYDNEY

Monday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. clock and chimes.
Musical programme from the Studio.
10.45 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.—Women's session. Talk on "Temps" by Miss Gwen Varley, Broadcasters' women's sports authority.
Social topics: Replies to correspondents, by Mrs. Jordan.
Talk on "Fashions Predictions" by Bessie Dorrington.
11.30 noon—G.P.O. clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Musical programme from the Studio.
12.8 p.m.—Information. Mails, shipping and port directory.
12.12 p.m.—Bones in call by wireless.
12.14 p.m.—Fruit market report.
12.14 p.m.—Vegetable market report.
12.18 p.m.—Dairy and farm produce market report.
12.22 p.m.—Forage market report.
12.24 p.m.—Fink market report.
12.25 p.m.—Rabbit market report.
12.28 p.m.—Stock Exchange report.
12.30 p.m.—H.M.V. gramophone rental.
1.27 p.m.—Stock Exchange report.
1.30 p.m.—G.P.O. clock and chimes.
Talk to children and special entertainment for children in hospital.
2 p.m.—G.P.O. clock and chimes.
Close down.

AFTERNOON SESSION.

Description of each race at the Epping Trot, broadcast direct from the course, by Mr. Basil Kirke.
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 Cabaret.
4 p.m.—G.P.O. clock and chimes.
News from the "Sun".
4.3 p.m.—Musical programme from the Studio.
4.15 p.m.—Serial story.
4.30 p.m.—Dungowan Dance Band.
4.35 p.m.—News from the "Sun".
4.55 p.m.—Resume of night's programme.
4.57 p.m.—Racing Resumé.
4.59 p.m.—Special ocean forecast.
5 p.m.—G.P.O. clock and chimes.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. clock and chimes.
Children's session.
6.30 p.m.—Musical programme from the Studio.

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SPECIAL COUNTRY SESSION,

- 7 p.m.—G.P.O. clock and chimes.
 Australian Mercantile, Land and Finance Co.'s report.
 Weather report and forecast by courtesy of Government Meteorologist.
 Producers' Distributing Society's fruit and vegetable market reports.
 Stock Exchange reports.
 Dairy produce report ("Sun").
 Grain and fodder report ("Sun").
 Ecclesiastical Congress notes.
 7.15 p.m.—Country news from the "Sun."
 7.30 p.m.—Talk on "The Motor Car," by Mr. Martin.
 8 p.m.—G.P.O. clock and chimes.
 Broadcasters' Topical Chorus.
 An hour's programme presented by Linden's Wines.
 8.3 p.m.—Hayes' Banjo Troupe (a party of 5 instrumentalists).
 8.10 p.m.—Miss Huxley Stuart, contralto.
 Scottish ballads.
 8.17 p.m.—From the Industrial Hall, Newtown: The Newtown Band.
 8.27 p.m.—From the Studio: Mr. Henri de Lince.
 Selected violin solos.
 8.44 p.m.—From the Studio: A description by Mr. Walter E. Withers of the straitling content.
 8.45 p.m.—From the Studio: Weather report and forecast by courtesy of Mr. C. L. Moran, Government Meteorologist.
 8.48 p.m.—Hayes' Banjo Troupe.
 8.53 p.m.—G.P.O. clock and chimes.
 10 p.m.—Broadcasters' all sports expert will talk on general sporting.
 10.45 p.m.—Dance music by Cyril Kaye and the Westworth Cafe orchestra transmitting from the ballroom of the Westworth. During intervals between dances, news items by courtesy of the "Sun" Newspapers will be read from the Studio.
 11.30 p.m.—G.P.O. clock and chimes.
 National Anthem.

2GB, SYDNEY

Monday.

MORNING SESSION.

- 9 a.m.—Music.
 9.5 a.m.—"Good Chest" Talk.
 9.15 a.m.—Music.
 9.50 a.m.—Psychological Class.
 10.40 a.m.—Music.
 10.45 a.m.—Health and Diet.
 10 a.m.—Close down.

AFTERNOON SESSION.

- 3.58 p.m.—Music.
 3.57 p.m.—Address.
 3.52 p.m.—Music.
 4 p.m.—Address.
 4.25 p.m.—Music.
 4.30 p.m.—Close down.
 4.29 p.m.—Children's Session.

EVENING SESSION.

- 7 p.m.—Music.
 7.15 p.m.—Address.
 7.15 p.m.—Music.
 7.20 p.m.—Address.
 7.30 p.m.—Music.
 7.40 p.m.—Address.
 7.55 p.m.—Instrumental Trio:
 DAN SCULLY, ADA BROOK, MURIELLE LANG.
 8.3 p.m.—Address by Dr. P. K. Roest.
 8.50 p.m.—Songs by ELSIE BROWN:
 1. "Whither."
 2. "Hindoo Song."
 9.30 p.m.—Guitar solos: F. LVA.
 8.00 p.m.—Instrumental Trio:
 L. BREWER, MURIELLE LANG, ADA BROOK.
 9 p.m.—Address by Rev. R. B. S. Hemmison.
 9.15 p.m.—Songs by ELSIE BROWN:
 1. "Whither."
 2. "Arise, O Son."

- 8.23 p.m.—Instrumental Quartette:
 DAN SCULLY, L. BREWER, MURIELLE LANG, ADA BROOK.
 8.40 p.m.—CLEMENT HOSKING:
 1. "The Month of May" (Schumann).
 2. "Love's Tears" (Schumann).
 3. "The Rose and the Lily."
 4. "Wandering" (Schubert).
 9.10 p.m.—Talk.
 9.50 p.m.—Close down.

2 UW, SYDNEY

Monday.

MORNING SESSION.

- 9 a.m.—News, shipping, music, studio items.
 9.45 a.m.—Women's session.
 9.58 a.m.—Resume of forward programme.
 10 a.m.—Close down.
 12.15 p.m.—Bipetal Lunches session.
 12.45 p.m.—Close down.

AFTERNOON SESSION.

- 2 p.m.—Studio items.
 2.59 p.m.—Resume of forward programme.
 3 p.m.—Close down.

EVENING SESSION.

- 8 p.m.—Studio items.
 8.59 p.m.—Resume of forward programme.
 9 p.m.—Close down.

NIGHT SESSION.

- 7 p.m.—"Sonora" selection.
 7.14 p.m.—Where to Go.
 7.16 p.m.—Pianoforte solo:
 Selection, "Arise."
 7.18 p.m.—Miss Constance Cooper, soprano:
 Selected.
 7.22 p.m.—Mr. Hyson, bass: Selected.
 7.24 p.m.—Miss Lucy Monahan, contralto:
 Selected.
 7.31 p.m.—Madame Lillian May, Soprano:
 "Come Ring to me" (Thompson).
 7.35 p.m.—Miss Nellie Secular, violin solo:
 Selected.
 7.40 p.m.—Miss Phyllis Packer, mezzo soprano.
 Selected.
 7.44 p.m.—Pianoforte solo, Madame Arline Sauer, Selected.
 7.49 p.m.—Miss Esther McAlpin, contralto:
 "Wake, Soul of mine."
 7.54 p.m.—Miss Jean Edwards, soprano:
 "Hold This the Stars" (Arandell).
 7.58 p.m.—Photographic Chart: Messrs. Harringtons.
 8.1 p.m.—Miss Lucy Mason, contralto.
 Selected.
 8.5 p.m.—Mr. Thorpe, Australian Museum:
 "Anomalia of Australian Birds and Animals."
 8.20 p.m.—Pianoforte solo, Madame Arline Sauer, Selected.
 8.25 p.m.—Madame Lillian May, soprano:
 "Slave song" (Del Reigo).
 8.30 p.m.—Miss Lucy Monahan, contralto.
 Selected.
 8.39 p.m.—Miss Nellie Secular, violin solo:
 Selected.
 8.40 p.m.—Miss Phyllis Packer, mezzo soprano:
 Selected.
 8.44 p.m.—Miss Esther McAlpin, contralto:
 "Hindoo Song" (Benberg).
 8.49 p.m.—Miss Constance Cooper, soprano:
 Selected.
 8.55 p.m.—Mr. Hyson, bass: Selected.
 8.58 p.m.—Miss Jean Edwards, soprano:
 "Because" (D'Hardelot).
 9 p.m.—Weather forecast and news items.
 9.3 p.m.—Studio selections.
 9.14 p.m.—Resume of forward programme.
 9.50 p.m.—God Save the King.

3LO, MELBOURNE.

Monday

MIDDAY SESSION.

- 12 noon.—Melbourne Observatory Time Signal.
 British Official Wireless News from Rugby, Reuter's and the Australian Press Association Cable.
 "Argus" News Service.

- 12.25 p.m.—JOE ARONSON AND HIS SYNGO-SYMPHONISTS:
 "No Wonder I'm Happy" (Aket).
 "When I Look at You" (Jones).
 "Just the Same" (Donaldson).
 12.30 p.m.—NELLIE JUDGES, soprano, new appearing in "The Student Prince" (by permission of J. C. Williamson, Ltd.):
 "The Net Mender" (Cacace).
 "A Persian Fable" (Beard-Rogge).
 12.37 p.m.—Stock Exchange information.
 12.42 p.m.—JOE ARONSON AND HIS SYNGO-SYMPHONISTS:
 "I Want Your Good-Night" (Tucker).
 "Go Wash an Elephant if You Wanna do Something Big" (Terker).
 "Nerada" (Williams).
 12.50 p.m.—We have now much pleasure in announcing the re-appearance of SYD FANE, the Singing Comedian, in:
 "You Tell Her I Stutter."
 Selected.
 1 p.m.—Melbourne Observatory Time Signal.
 1.10 p.m.—How you done your bit in the Safety First Movement. Show a good example. Obey the Traffic Constable and don't cross the street against the signals. It's up to YOU, it's up to EVERYBODY. Remember Safety First.
 1.1 p.m.—JOE ARONSON AND HIS SYNGO-SYMPHONISTS:
 "The Birth of the Blues" (Henderson).
 "The Wind Blew across His Whiskers just like a Gale" (Cacace).
 "Sweetie o Mine" (O'Hagen).
 1.16 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia and New South Wales. Great forecasts. Silver reports.
 1.17 p.m.—NELLIE JUDGES, soprano:
 "Spring Dropped a Song into My Heart" (Premier).
 "Dark Grows the Sky" (Franz Eimann).
 1.24 p.m.—JOE ARONSON AND HIS SYNGO-SYMPHONISTS:
 "Oh, What a Pal was Whoopi" (Kalin).
 "Low Down" (Rene).
 "Charlie, Beetsie Bee from Sunny Italy" (Lorenz).
 1.34 p.m.—We have much pleasure in presenting to you ANNA BURKE, soprano, well known to all B.L.O. Melbourne, later on as a delightful singer of Irish melodies. Close your eyes and she will carry you back again, in fancy, to the Emerald Isle—to the land of many waters, of green fields, of mist-clouded mountains and the air of charm and romance that is in her Ireland:
 "Soudhie, sailed away from Killynery" (Carleton).
 "Avonreen" (Wilton King).
 1.41 p.m.—CAPTAIN DONALD MACLEAN:
 "Pirates and How Pirates."
 2 p.m.—MR. H. I. WEBB, of the Tasmanian Tourist Bureau, Melbourne, will give a chat about "Tasmania."
 2.15 p.m.—Close down.

AFTERNOON SESSION.

- 4 p.m.—STUDIO QUARTET:
 "String Quartet" (Mozart).
 4.10 p.m.—MES. DOROTHY SILK:
 "Homocrazia."
 4.25 p.m.—REGINALD BRADLEY, violin:
 "Rondo" (by request) (Mozart-Kreisler).
 4.35 p.m.—L. NOEL SMITH, baritone—new appearing in "The Student Prince" (by permission of J. C. Williamson, Ltd.):
 "Since first I saw your face" (Purcell).
 "Thoughts" (Howard Fisher).
 4.42 p.m.—STATION TRIO:
 "Trio in G Major, Op. 16" (Mozart, ed. Bonfatti).
 4.53 p.m.—AGNES FORTUNE, piano:
 "G Major Sonata" (Mozart).
 4 p.m.—ETHEL PURSER, soprano:
 "Fog's Road Song" (Ivor Novello).
 "Chanson de Fleurance" (Godard).
 4.7 p.m.—STUDIO QUARTET:
 "Rondo from String Quartette No. VI" (Mozart).
 4.15 p.m.—L. NOEL SMITH, baritone:
 "Fairings" (Easthorpe Martin).
 "The Ballad Manger" (Easthorpe Martin).

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- 4.22 p.m.—STUDIO QUARTET:
"Musnet from String Quartets No. 2"
(Mozart).
- 4.30 p.m.—ETHEL FORSHAW, soprano:
"Pieta Signora" (Gumbert).
"Waltz for the Blue Socks" (Goldfron).
- 4.37 p.m.—MISS FLORA PELL, Inspector of Schools:
"Domestic Science."
- 4.40 p.m.—"Herald" news service.
Stock Exchange information.
Recital of Elizabethan poetry will be given during the afternoon as they come to hand.
- 5 p.m.—MR. H. R. GOLLAN, of the Government Tourist Bureau, Melbourne, will give a talk on:
"Across the Australian Alps."

EVENING SESSION.

- 5.30 p.m.—Acceptance for Ballarat Turf Club Races on Wednesday, December 7.
- 5.33 p.m.—Answers to Letters and Birthday Greetings by "LITTLE MISS KOOKABURRA."
- 6.12 p.m.—STUDIO QUARTET:
"Prize an Italian Fiedlo" (Nelson).
- 6.22 p.m.—CAPTAIN DONALD McLEAN:
"A Sail, a Sail! but she dies the Jolly Roger."
- 6.32 p.m.—STUDIO QUARTET:
"In Wiedera" (Gazack).
- 6.32 p.m.—LITTLE MISS KOOKABURRA:
Merr about "The Flincky Patrol."
- 6.40 p.m.—The Rural Automobile Club of Victoria's Safety Message for today is: "Children, never venture on the handle-bars of a bicycle. Remember, Safety First."
Official Report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bonnie Street, Melbourne. Number of sheep and cattle drawn for week's sales.
- 6.45 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
- 6.52 p.m.—Stock Exchange information.
- 6.57 p.m.—Fish Market reports by J. R. Boneville, Ltd., Perth, prices.
- 6.58 p.m.—Rural reports.
- 7 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd., Poultry, grain, hay, straw, lime, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruitgrowers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association, Citrus fruit.

NIGHT SESSION.

- 7.15 p.m.—MR. S. W. HEDGER, Superintendent and Secretary of the ROYAL VICTORIAN INSTITUTE FOR THE BLIND, will speak on:
"What the Royal Victorian Institute for the Blind, St. Kilda Road, is accomplishing for the welfare of the blind children and adults of Victoria."
- 7.20 p.m.—MR. E. C. H. TAYLOR will speak to Young Australia on:
"School Life and School Sport."
- 7.45 p.m.—Order of the papers of the Department of Agriculture, MR. J. M. WARD, Superintendent of Horticulture, will speak on:
"The Apple Export Industry."
- 8 p.m.—MR. C. BERTHELM, Middle Distance Professional Champion of the World, will speak on:
"The Mile."

PROGRAMME TRANSMITTED FROM THE PARAMOUNT THEATRE, KURUCA.

- 8 p.m.—ECHUCA FEDERAL BAND:
March, "Jack of Lanterns."
- 8.4 p.m.—PARAMOUNT THEATRE ORCHESTRA:
March, "Adalid."
Waltz, "Thru."
- 8.14 p.m.—MRS. A. NEALE and MR. H. LEWIS:
Duet, "In the Garden of My Heart."
- 8.18 p.m.—MR. J. JENNINGS:
Trombone solo, "The Joy Wheel."
- 8.29 p.m.—ECHUCA FEDERAL BAND:
Cornetion Selection, "Sons of Brilliance."
- 8.39 p.m.—ECHUCA COMBINED CHOIR:
Atheni.
- 8.45 p.m.—INSTRUMENT QUARTETTE:
"Chanson Triole."

- 8.44 p.m.—MRS. A. NEALE, voices:
"There's a Land."
- 9 p.m.—MR. A. DOUGLAS:
Euphonium solo, "The Bell Ringer."
- 9.3 p.m.—ECHUCA FEDERAL BAND:
Fox trot, "Coletta."
- 9.5 p.m.—PARAMOUNT THEATRE ORCHESTRA:
"Dance of the Teddy Bears."
Selection, "Martha."
8.18 p.m.—MR. H. LEWIS:
Solo, "A Soldier's Song."
- 9.21 p.m.—MR. W. WILKS:
Musical Saw, "Barcarolle."
- 9.43 p.m.—ECHUCA FEDERAL BAND:
March, "Washington Grays."

FROM THE STUDIO:

- 8.30 p.m.—Announcements.
The Royal Automobile Club of Victoria's Safety Message for today is for MOTORISTS:
"Remember, yours is the most mobile vehicle on the road. Be a sportsman, but even if the other fellow isn't."
Girl Guide News.
- 9.4 p.m.—We have pleasure in introducing to you—The Ukulele Troubadour, CY. PEIR, who will sing:
"Paddling Madelin Home" (Woods).
"Why Should I Pine for the World to be Mine" (Hahn-Donaldson).
- 9.49 p.m.—MISS IDA SHACKWELL will speak
"The Million Shilling Fund."
- 3.42 p.m.—ANNA BURKE, soprano, in more Irish melodies:
"She's a Real Irish Mother" (McGee and W.).
"River Shannon Moon" (Wallace Smith).
- 9.55 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby. Island steamer movements.
- 10.2 p.m.—CY. PEIR, The Ukulele Troubadour:
"I'm the Good Man" (Greco-Prattades).
"If I can't have you" (Lucas).
- 10.3 p.m.—MAGGIE FOSTER, violin:
"Obermaa" (Wienstadl).
"Shepherd's Dance" (Edward German).
- 10.15 p.m.—ANNA BURKE, soprano, Irish melodies:
"Shanabagh" (Johnny Lamb).
"Beautiful Eileen" (Nones).
10.20 p.m.—MAGGIE FOSTER, violin:
"Popular Choruses."
- 10.35 p.m.—SYD FAYNE, the Singing Comedian:
"O Gee, I'm in Love."
Selected.
- 10.40 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
"You Know I Love You" (Morse).
"I've Got Somebody Now" (Williams).
"Hello, Bluebird" (Friend).
- 10.45 p.m.—SYD FAYNE, the Singing Comedian:
"Tally."
Selected.
- 10.50 p.m.—OUR GREAT THOUGHT:
"See deep enough and you see musically the heart of Nature being everywhere. Music, if you can only reach it." (Carlyle).
- 10.57 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
11.40 p.m.—"GOD SAVE THE KING."

4QG, BRISBANE

Monday.

MIDDAY SESSION.

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

AFTERNOON SESSION.

- 3.30 p.m.—"Argus" tea music.
- 4.15 p.m.—News service supplied by "The Telegraph."
- 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6 p.m.—News service supplied by "The Daily Standard."
- 6.30 p.m.—Lecturette: A Common Sense Talk on the Care of the Feet, by "Calverley."
- 6.38 p.m.—"The Children's Smasher" Stories by "The Sandersons."
- 7 p.m.—Market reports; Stock reports.
- 7.25 p.m.—Weather news; "Daily Standard" news.
- 7.42 p.m.—Standard time signal.
- 7.45 p.m.—Lecturette: The Children's Music Corner, conducted by "The Music Man."

NIGHT SESSION.

PART I—ORGAN RECITAL.

- The first portion of to-night's programme will comprise the playing of an organ recital by Mr. George Hampson, F.R.C.O. (Oley Organist), from St. John's Cathedral.
- 8 p.m.—FROM ST. JOHN'S CATHEDRAL:
Organ Recital. The programme to be composed of request items.
- The second portion of the programme will comprise a Recital by the Students of Miss Muriel King, relayed from All Saints Hall.

PART II.

- 8 p.m.—FROM ALL SAINTS HALL:
"Vals" (from suite for two pianos—Arensky).
Miss Agnes Anderson (1st piano), and Miss Muriel King (2nd piano).
"Valse in A Flat Major" (Chopin).
"Dancing Doll" (Poldini).
"Frelude in G Sharp Minor" (Rachmaninov).
"Gavotte" (Gluck-Brahms).
"Polonaise in C Sharp Minor" (Chopin).
Miss Peggy Gilbert.
"Concertino" (1st Movement—Weber).
Miss Edna Hook.
"(2nd piano—Miss Agnes Anderson).
"Mazurka in D Major" (Chopin).
"Grace" (Haydn).
Miss Enoch Hoeg.
"Antoine" (Chaminade).
Miss Edna Hook.
"Fantaisie Impromptu" (Chopin).
Miss Agnes Anderson, A.T.C.L.
"Concerto in A Minor" (Last Movement—Grieg).
Miss Muriel King, L.R.A.M.
(2nd piano—Miss Pearl Butcher, L.A.B.)

PART III—STUDIO CONCERT.

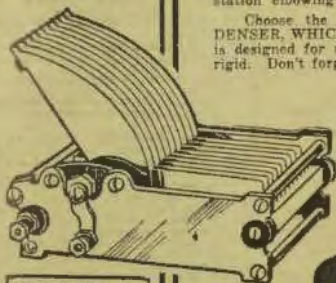
- The third portion of the programme will comprise a concert broadcast from the Studio of 4QG.
- 9.30 p.m.—FROM THE STUDIO OF 4QG:
Overture: "Golden Scimitar" (Schlegel).
The Studio Instrumental Quartette.
Conductor: Mr. F. C. Smith.
Contralto solo: "Slumber Song" (Gibholm).
Miss Jessie McDonald.
Violin solo: "Saint d'Amour" (Hazy).
Miss M. Powell.
Soprano solo: "Beloved It is Born" (Allyard).
Miss Jean McDougal.
Orchestra:
(a) "The Skating Girl" (Cliff).
(b) "Frisivole Cupid" (Lozer).
The Studio Instrumental Quartette.
Contralto solo:
"Softly Awakes My Heart" (St. Saens).
Miss Jessie McDonald.
Violin solo: "Londonderry Air" (Hewson).
Miss M. Powell.
Orchestra:
"Summer Showers" (Knight-Logan).
The Studio Instrumental Quartette.
Soprano solo:
"There is a Green Hill" (Gounod).
Miss Jean McDougal.
March: "Old Father" (Hohmann).
The Studio Instrumental Quartette.
10.15 p.m.—"The Daily Mail" news; weather news. Close down.



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6WF, PERTH.

Monday.

- 12.30 p.m.—Tune in.
 12.35 p.m.—First Local News Bulletin supplied by courtesy of "The West Australian" Newspaper Co. Market reports supplied by the Westralian Farmers and Traders' Markets Limited. Cables supplied by the Australian Press Association.
 1 p.m.—Time Signal from Perth Observatory.
 1.1 p.m.—Meteorological Bureau of Western Australia.
 1.2 p.m.—Studio Quintette.
 Conductor, Mr. Val Smith.
 2 p.m.—Close down.
 2.30 p.m.—Tune in.
 2.35 p.m.—Musical programme including Vocal numbers.
 4.45 p.m.—Close down.
 6.45 p.m.—Tune in.
 The evening transmission is broadcast on 104.5 metres as well as the usual wavelength.
 6.50 p.m.—Stories for the children.
 7.30 p.m.—Stocks, Market and cables.
 1.45 p.m.—Talk.
 7.50 p.m.—Time Signal from Perth Observatory.
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.

MUSICAL EVENING.

- Riverside Choir, Conductor Mr. Leonard. Instrumental and Vocal numbers from the studio.
 10 p.m.—Late news items supplied by courtesy of "The Daily News" Newspaper Co. Items within range announcement.
 Weather report and forecast.

7ZL, HOBART

Monday.

- MORNING SESSION.**
 11 a.m. to 12 noon.
- AFTERNOON SESSION.**
 2 p.m.—G.P.O. Clock chimes the hour.
 2.1 p.m.—Tune in selection.
 2.5 p.m.—Hobart Stock Exchange Quotations. Weather information.
 Items of interest announcements.
 3.15 p.m.—Selections by 7ZL Studio Trio:
 "Dreamy Lagoon" (Elliot).
 "Gazette of Amherst" (Bozz).
 "Baccarat" (Wynath).
 Cello solo: Selected. (Miss Jessie Landa).
 Selections from "A Princess of Kensington" (German).
 "A Japanese Sunset" (Deppert).
 Violin Solo: Selected. (Mr. E. J. McCann).
 "Letzte a ma mia" (Gontier).
 4.15 p.m.—Fashion talk by "Aunt Edna" of Wynemills Ltd., Hobart.
 4.30 p.m.—Close down.
- EARLY EVENING SESSION.**
 6.30 p.m.—"Duck Peters" half hour.
 7 p.m.—"Dude Hector" talks to the children.
- NIGHT SESSION.**
 7.45 p.m.—Musical selection.
 7.55 p.m.—Physical Culture talk by Lieutenant Reginald McKeock.
 7.50 p.m.—"Memory" special Tasmanian news service. Railways, tourism, produce sales. Weather information. Hobart Stock Exchange quotations.
 8 p.m.—G.P.O. Clock chimes the hour.
 8.1 p.m.—Consent by Students of Mrs. Benson, Hobart. Part I.
 Song: "Land of Hope and Glory" (Miss Nancy Heathorn).
 Song: "Before you came," Mr. Chas. Benson.
 Song: "A Moment" Miss Nellie Curtis.
 Bell and Aria (the request), "Bernini (Invulani)" Miss Harles-Gibney.
 Song: "Can you hear my Cowen dear" (composed by Mrs. Benson) Miss Nancy Heathorn.
 Cello solo, Selection from "Love Melody" (Liszt) and Prelude (Chopin), Mr. D. Wilson.
 Song: "A Dream" Mr. Chas. Benson.

- Song: "Serenata" (Tosti), Miss Hestley Rigby.
 Song: "You," Miss Nellie Curtis.
 Selections from the opera "The Cingalese" by produced by Mrs. Benson at the Theatre Royal, Hobart on Jan 20th.
 Song: "Heart of Sweet Ceylon" (Verker), Mr. Chas. Benson.
 Song: "My Heart at your feet" (Pears) (Sulher) Miss Yveta Benson.
 Song: "The Dance I'll lead him" (Nanora and Tea girls), Miss Gwen Griffin.
 Song: "Tea, Tea, Tea" Kariama and Tea girls) Miss Nina Werbelmer.
 Duet: "Reading, Writing, and Arithmetic" (Verker and Nancy).
 Song: "My dear little Cingalese" Mr. Chas. Benson. Musical Directress Mrs. Benson.
 9 p.m.—Talk on Tasmanian Beauty Spots by Mr. E. T. Emmett. "A walk round the Great Lakes."
 9.15 p.m.—British Official Wireless news.
 9.30 p.m.—"Mercury" special interstate news service. Tasmanian District Weather report. 9 p.m. Weather forecast. Station announcement to-morrow's programme. National Anthem.

Tuesday, Dec. 6
2FC, SYDNEY.

EARLY MORNING SESSION.—7 to 6 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and announcements.
 10.5 a.m.—Studio music.
 10.15 a.m.—"Sydney Morning Herald" news service.
 10.30 a.m.—Studio music.
 10.45 a.m.—Late sporting news by the JFC Racing 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 Cable Services.
 11.10 a.m.—Studio music.
 11.25 a.m.—A talk on Home Cooking and Recipes, by Miss Ruth Furst.
 11.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
 12.5 p.m.—Stock Exchange, first call.
 12.3 p.m.—Official weather forecast, rainfall.
 12.5 p.m.—Studio music.
 12.14 p.m.—Summary of "Sydney Morning Herald" news service.
 12.45 p.m.—Studio music.
 12.30 p.m.—Marching music for school children.
 12.40 p.m.—Ivy Dunstone, mezzo.
 12.45 p.m.—Studio music.
 1 p.m.—"Big Ben." Weather intelligence.
 1.5 p.m.—"Evening News" midday news service.
 Producers' Distributing Society's Report.
 1.20 p.m.—Studio music.
 1.25 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching music for school children.
 1.40 p.m.—Ivy Dunstone, mezzo.
 1.40 p.m.—Studio music.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and announcements.
 3.2 p.m.—Joyce Gillespie soprano.
 "Moon's First Rose" (Coates).
 3.5 p.m.—Studio music. Special Christmas features.
 4.12 p.m.—Dorothy Heywood, contralto:
 "Sweet and Low" (Wallace).
 4.15 p.m.—A Reading:
 4.25 p.m.—Thelma Lundstone, mezzo:
 "Who is Sylvia" (Schubert).
 4.35 p.m.—Marching music for school children.
 4.40 p.m.—Hilda Nelson, mezzo-contralto:
 "O Ship of My Delight" (F. Hillier).
 4.45 p.m.—The Oak Hall Instrumental Trio:
 From Farmer's Tea Rooms. (Leader, Mr. Horace Keast).

- 5.55 p.m.—From the Studio.
 Alice Louisa, soprano.
 4 p.m.—Studio music.
 4.5 p.m.—From Farmer's Tea Rooms:
 The Oak Hall Instrumental Trio. (Leader, Mr. Horace Keast).
 4.12 p.m.—From the Studio:
 Joyce Gillespie, soprano:
 "Lullaby" (1925-26-27).
 4.20 p.m.—Studio music.
 4.25 p.m.—The Oak Hall Instrumental Trio (From Farmer's Tea Rooms).
 4.35 p.m.—From the Studio:
 Dorothy Heywood, contralto:
 "A Summer Night" (Thomas).
 4.40 p.m.—Thelma Lundstone, mezzo:
 "A Little Love Nest" (Hermanns Lohr).
 4.45 p.m.—Stock Exchange, third call.
 4.47 p.m.—Studio music.
 4.55 p.m.—Hilda Nelson, mezzo-contralto:
 "Lullaby" (Freder).
 4.55 p.m.—Anne Luciano, soprano.
 4.57 p.m.—Studio music.
 5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 6.40 p.m.—The Chimes of 2FC.
 6.45 p.m.—"The 'Glad man' talks to the children.
 6.50 p.m.—Story time for the young folk.
 6.55 p.m.—Studio music.
 7 p.m.—"Big Ben." Late sporting news.
 7.10 p.m.—Hague's market reports (wool, wheat and stock).
 7.15 p.m.—Fruit and vegetable markets.
 P.D.S. Poultry markets.
 7.22 p.m.—Weather and shipping news.
 7.28 p.m.—"Evening News" late news service.

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
 7.45 p.m.—Montgomery Stuart in a series of "Glad News" items:
 8 p.m.—"Big Ben."
 Alice Prosser, contralto:
 "Deep in the heart of a rose" (London Ronald).
 "Little Moonbeam" (Brash).
 8.5 p.m.—Win and Winkle, English entertainer.
 8.15 p.m.—From the Marlborough Cafe, King Street, Sydney.
 Items from the Annual Christmas Meeting of the "Smith Family".
 Community singing by the Company.
 Announcements by Secretary Smith. William Hunter, at the piano.
 Note: The latest weather report will be given from the Studio at approximately 2 p.m.
 8.45 p.m.—From the Studio:
 Alice Prosser, contralto:
 "She wandered down the mountain side" (Clay).
 "Love I have won you" (Ronald).
 8.45 p.m.—Harrison White, banjo solo.
 9 p.m.—"Big Ben."
 Win and Winkle, English entertainer.
 10.10 p.m.—From the Ambassadors:
 The Ambassadors Dance Orchestra, conducted by Mr. Al Hammett.
 10.20 p.m.—From the Studio:
 Hanson White, banjo solo.
 10.25 p.m.—Late weather forecast.
 10.30 p.m.—From the Ambassadors:
 The Ambassadors Dance Orchestra.
 10.40 p.m.—From the Studio:
 Len Maurice, baritone, in popular numbers.
 10.45 p.m.—The Ambassadors Dance Orchestra.
 10.57 p.m.—From the Studio:
 Late news and announcements.
 11 p.m.—"Big Ben."
 Dance items from the Ambassadors, interspersed with vocal numbers from the Studio by Len Maurice.
 11.00 p.m.—National Anthem.
 Close down.

2BL, SYDNEY.

Tuesday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 10.30 a.m.—G.P.O. clock and chimes.
Musical programme from the Studio.
11.40 a.m.—News from the "Daily Telegraph
Victorial."
10.50 a.m.—Musical programme from the
Studio.
11 a.m.—G.P.O. clock and chimes.
Announcements.
11.15 a.m.—Women's session. Social notes.
Replies to correspondence by Mrs. Jordan.
Talk on "Aids to Beauty" by Mrs. Jordan.
Talk on "Local Duties" by Mr. Ross Doug-
las.
12 noon.—G.P.O. clock and chimes.
Special ocean forecast and weather report.
12.3 p.m.—Musical programme from the
Studio.
12.8 p.m.—Information. Mails, shipping and
post directory.
12.11 p.m.—Boats in call by wireless.
12.14 p.m.—Fruit market report.
12.15 p.m.—Vegetable market report.
12.17 p.m.—London metal market report.
12.19 p.m.—Dairy and farm produce market
report.
12.22 p.m.—Pecan market report.
12.24 p.m.—Fish market report.
12.26 p.m.—Rabbit market report.
12.28 p.m.—Stock Exchange report.
12.30 p.m.—H.M.V. gramophone recital.
1.21 p.m.—Stock Exchange report.
1.30 p.m.—G.P.O. clock and chimes.
Talk to children and special entertainment
for children in hospital.
3 p.m.—G.P.O. clock and chimes.
Close down.

AFTERNOON SESSION.

- Racing information broadcast immediately
after each race by courtesy of the "Sun."
3 p.m.—G.P.O. clock and chimes.
News from the "Sun."
3.18 p.m.—Civil Service Stores Trio—Direc-
tion, Miss De Courcy Bremer.
3.20 p.m.—G.P.O. clock and chimes.
News from the "Sun."
3.40 p.m.—Musical programme from the
Studio.
3.50 p.m.—News from the "Sun."
4 p.m.—G.P.O. clock and chimes.
Civil Service Stores Trio.
4.15 p.m.—Serial Story.
4.25 p.m.—Musical programme from the
Studio.
4.50 p.m.—News from the "Sun."
4.55 p.m.—Resume of night's programme.
4.57 p.m.—Racing results.
4.59 p.m.—Special ocean forecast.
5 p.m.—G.P.O. clock and chimes.
Close down.

EARLY EVENING SESSION.

- 6.45 p.m.—G.P.O. clock and chimes.
Children's session.
6.55 p.m.—Musical programme from the
Studio.
SPECIAL COUNTRY SESSION.
7 p.m.—G.P.O. clock and chimes.
Australian Mercantile, Land and Finance
Co.'s report.
Weather report and forecast by courtesy of
Government Meteorologist.
Producers' Distributing Society's fruit and
vegetable market report.
Block Exchange report.
Grain and fodder report ("Sun").
Dairy produce report ("Sun").
N.R.M.A. talk.
7.15 p.m.—Country news from the "Sun."
7.30 p.m.—Talk by a member of the St. John
Ambulance Association.
8 p.m.—G.P.O. clock and chimes.
Broadcasters' Typical Chorus.



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FARMER'S

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3LO, MELBOURNE

Tuesday.
MIDDAY SESSION.

12 noon—Melbourne Observatory time signal.
12.1 p.m.—Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day, British official wireless news from Rugby, Buenos Aires and the Australian Press Association cables.
"Ayrus" news service.
12.20 p.m.—STUDIO QUARTET:
"Ballet Music from Gounod's 'Faust'.
12.30 p.m.—CY PEIR, the Ukulele Troubadour:
"Smile All the While" (Davis-Ager).
"Drammer of Dreams" (Kahn-Parillo).
12.37 p.m.—Stock Exchange information.
12.40 p.m.—STATION PRIO:
"Two Songs by Brahms."
12.41 p.m.—ANNA BURKE, soprano, in Melodrama from the Emerald Isle:
"Marian" (J. Martin).
"Eileen of Killybegs" (Carlton).
12.54 p.m.—STANLEY BAINES, flautist:
"Nightingale."
"Harpunale" ("Tales of Hoffman" Offshoot).

1 p.m.—Melbourne Observatory time signal.
That youngster—the bright little chap who sells newspapers—or runs messages—what are you doing to help him to be a useful citizen, to be as much happy in himself and bringing joy to others? Give him a helping hand now.
1.1 p.m.—STUDIO QUARTET:
"Russian Romance" (Prinil).
1.19 p.m.—Meteorological information. Weather forecast and rainfall for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports.
1.17 p.m.—STD. FANE, the Singing Comedian:
"Kiss Me Again."
Selected.

1.24 p.m.—STANLEY BAINES, flautist:
"Butterfly" (Kohler).
"Allegretto" (Gardner).
1.31 p.m.—ANNA BURKE, soprano:
More Irish melodies:
"The Girl with a Bit of a Brogue" (F. Monckton).
"Bridget O'Flynn" (Robert King).
1.38 p.m.—STUDIO QUARTET:
"Berceuse" (Prinil).
"Cansonneta."
1.45 p.m.—C. Y. PEIR, the Ukulele Troubadour:
"Man Never Knows when a Woman's Gonna Change Her Mind" (Field).
"I don't believe 'It" (Richmond-Silver).
1.52 p.m.—AGNES FORTUNE, piano:
"The Rivulet" (Meudelschlag).

AFTERNOON SESSION.
1 p.m.—Melbourne Observatory Time Signal.
2.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
"Haven of Tomorrow" (Greece).
"Roza Lee" (Ash).
2.47 p.m.—NELLIE JUDGES, soprano—now appearing in "THE STUDENT PRINCE" (by permission of J. C. Williamson, Ltd.):
"The Cobbler's Song."
Selected.
3.38 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
"Blue Skies" (Berlio).
"Dawn of Tomorrow" (Greece).
"Roza Lee" (Ash).
3.47 p.m.—NELLIE JUDGES, soprano—now appearing in "THE STUDENT PRINCE" (by permission of J. C. Williamson, Ltd.):
"Lak Jean."
3.54 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
"Ain't She Sweet" (Yellen).
"Crazy Wanda, Crazy Tune" (Yellen).
"There's a Trick in Pickin' a Chick, Chick, Chick" (Tobias).

4.3 p.m.—MAGGIE FOSTER, violin:
More Popular Chorus from the Year before last.
4.41 p.m.—E. MASON WOOD, baritone:
Musical Comedy Memories.
4.48 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
"Love is Just a Little Bit of Heaven" (Beyan).
"She's Got It" (Davis).
"Stepping Stone" (Davis).
4.47 p.m.—NELLIE JUDGES, soprano:
"Vilia."
Selected.
4.54 p.m.—NATRON MORELAND:
"Mother-in-Law."
4.45 p.m.—"Herald" news service.
Stock Exchange information.
5 p.m.—Mr. J. C. DICKSON, of the Government Tourist Bureau, Melbourne, will speak on "Tour and Travel Inlet."
5.10 p.m.—Close Down.

EVENING SESSION.

5.30 p.m.—Answer to Letters and Birthday Greetings by "GEM GUMLEAF."
6 p.m.—STUDIO QUARTET:
"Dancing Leaves" (Marschke).
6.10 p.m.—MISS YETTY LANDAU presents her junior pupils in a NUBBERY RHYME ANTISSA (adapted and arranged by Frank Pearson).
"Tom, Tom, the Piper's Son."
"Tom, Tom, the Piper's Son."
"Steal a pig and away he run."
CAST OF CHARACTERS:

Tom, the Piper's Son, HORTHY BETHUNE
Gaffer Goosecap, a Farmer, ELLA REWELL.
Dolly Goosecap, his daughter, GWENNIE HALL.
Dickins, who went to Market, JULIE DICKINS.
The Lord Mayor, MAVIS HULL.
Chief Constable, BONNIE SCARROT.
Policeman, JOSIE LEE.
DAME TROT, THILMA HULL.
Ecce 1. Exterior of Gaffer Goosecap's Farm.
(The Theft).
Ecce 2. Interior of the Prison.
(Meditation).
Ecce 3. The Court of Justice.
(The Parson).
Time: Nursery Rhyme Time.
Musical Numbers incidental to the Play.
Scene 1. Duets: "Tom, Tom, the Piper's Son," Dolly and Tom.
Duet: "Little Pig went to Market," Tom and Peggy.
Scene 2: "Tu tal ra val la," The Company.
Concerted: "Pop him into Prison," Mayor and Chorus.
Indignant solo, "Policeman, what do you men?" Lord Mayor.

Finals, "In't this a Curse" The Company.
Fiancette, Miss Elsie Mitchell.
6.30 p.m.—STUDIO QUARTET:
"Slavook Fancies" (Miles).
6.40 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for to-day is: "Never hold on to a motor or other vehicle when you are riding a bicycle."
Official Report of Newmarket Stock Sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Number of sheep and cattle drawn for week's sales.
6.45 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
6.52 p.m.—Stock Exchange information.
6.57 p.m.—Fish Market reports by J. M. Barrett, Ltd. Rabbit prices.
6.59 p.m.—River reports.
7.2 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.: Poultry, Grain, Hay, Straw, Jute, Dairy Products, Potatoes and Grains. Market reports of fruit by the Victorian Fruit Growers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits. Ballarat Sheep Market reports.

NIGHT SESSION.
7.15 p.m.—Under the auspices of the Town Planning Association, MR. W. A. WRABINSON will speak on "The Meaning of Zoning."

6.5 p.m.—Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Bennett.
6.11 p.m.—The Welsh Male Voice Choir, under the direction of Mr. Lindley Evans.

6.18 p.m.—An evening of comic opera and high-class light music arranged and directed by Mr. Roland Foster, Conservatorium of Music, Sydney.

Part 1: Solo: duets, quartets, and choruses from "Olivette," "Dora," "Contraband," "Bois de Perse," "Mack Doctor," "Held Maid," "Carmen," "Cox and Cox" and "Mignon."

First performance of "The Policeman's Berenade," a miniature opera composed by Alfred Reynolds.

A short talk on modern British composers, with some examples of their latest songs.

10 p.m.—G.P.O. clock and chimes.

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

10.5 p.m.—Broadcasters' Light Orchestra.

10.15 p.m.—Dance music by Cyril Kaye and the Wentworth Gate Orchestra, transmitting from the ballroom of the Wentworth. During intervals between dances, news items by courtesy of the "Sun" Newspapers will be read from the Studio.

11 midnight.—G.P.O. clock and chimes. National Anthem.

2 UW, SYDNEY

Tuesday.

MORNING SESSION.

6 a.m.—News, Shipping, mails, studio and items.
6.45 a.m.—Women's session.
6.50 a.m.—Resume of forward programmes.
10 a.m.—Close down.

10.15 p.m.—Special employees luncheon session.
12.45 p.m.—Close down.

AFTERNOON SESSION.

1 p.m.—Studio items.
2.50 p.m.—Resume of forward programmes.
3 p.m.—Close down.

EVENING SESSION.

5.30 p.m.—Studio items.
5.50 p.m.—Resume of forward programmes.
6 p.m.—Close down.

NIGHT SESSION.

7 p.m.—"Sonora" selection.
7.4 p.m.—Where to go.
7.10 p.m.—Pianoforte solo, Professor C. Sauer. Selected.
7.35 p.m.—Miss Dorothy Stacy, mezzo soprano:
"On the Other side of the Big Black Cloud" (Arnold Blake).
7.50 p.m.—Robert Meadows, Euphonium solo:
"She's the daughter of Mother Machree" (Hall).

7.55 p.m.—Mr. Bruce Hudson, violin solo. Selected.
7.40 p.m.—Harry Afflick, jazz Interlude.
7.40 p.m.—Miss Amy Wilson, soprano:
"Billie in the night."
7.44 p.m.—Miss Florence Crocker, mezzo soprano. Selected.

7.49 p.m.—Vocal duet, Miss Nancy Marley, contralto, Miss Dorothy Stacy, mezzo soprano. Selected.
7.53 p.m.—James Jackson, baritone. Selected.
7.58 p.m.—Mr. Mader, Whistler. Selected.
8.2 p.m.—Miss Amy Wilson, soprano:
"Dolly" (Baudouren).
8.19 p.m.—Miss Nancy Marley, contralto. Selected.

8.15 p.m.—Miss Dorothy Stacy, mezzo soprano:
"Little Irish Girl" (Loh).
8.10 p.m.—Robert Meadows, Euphonium solo:
"I love you Truly" (Bond).
8.24 p.m.—Miss Florence Crocker: mezzo soprano. Selected.

8.24 p.m.—Harry Afflick, Jazz Interlude.
8.28 p.m.—Vocal duet, Miss Nancy Marley, contralto, Miss Dorothy Stacy, Mezzo soprano. Selected.

8.12 p.m.—James Jackson, baritone. Selected.
8.44 p.m.—Mr. Mader, Whistler. Selected.
8.48 p.m.—Items of the Opera No. 17.
"Don Giovanni" Mozart by G. F. Mannel.
8.51 p.m.—News and official weather forecast.
9.28 p.m.—Resume of forward programme.
10.10 p.m.—God Save the King.

7.30 p.m.—Under the auspices of the University Extension Board, MR. P. D. PHILLIPS, M.A., I.L.L.B., will speak on "Are Women Under Any Disadvantage?"
7.45 p.m.—MR. H. M. PASCOE will speak on "Booze."

8 p.m.—A Chat by the Head of the Love Guides.

LAUGHING VOICES SCRAPS OF SONG, LUSTY MUSIC, LOUD AND STRONG.

8.15 p.m.—DOROTHEA MACMASTER, piano: "Fandango" (Schubert).

"Fidolator in C sharp minor" (Chopin).

8.25 p.m.—THE SUNDOWNERS' Quartette: "Cappan Moon" (Finley).

"A Little English Melody" (White).

"Kitty's Disaster" (Werner).

8.35 p.m.—Achromesidents.

THE ROYAL AUTOMOBILE CLUB OF

VICTORIAN SAFETY MESSAGE for to-

day is for MOTORISTS: "Never force your

way through a crowd of people boarding or

alighting from a motorcar, because of

harmless passengers alighting."

8.35 p.m.—STUDIO PRESENTATION OF

THE OPERA "FAUST" Part I, under the

direction of J. SUTTON GLOVE, assisted

by THE STUDIO ORCHESTRA and

ACORN METHODIST CHOIR.

CAST:

Faust JOHN D SULLIVAN

(Tenor)

Mephistopheles THOS. GEORGE

(Bass)

Valentine J. EVANS

(Baritone)

Wagner F. DAVIES

(Bass)

Marguerite ELSIE DAVIES

(Soprano)

Siebel INA LILLYCRAP

(Mezzo soprano).

10.15 p.m.—MAGGIE FORSTER, violin:

"Le Canari" (Paganini).

"Liebestraum" (Liszt-Menk).

10.25 p.m.—Aurora News Service. Meteorological

Information. British Official Wire-

less News from English Island Steamer

Movements.

10.37 p.m.—CY. PIER, the Ukulele Trou-

badist:

"I Got the Girl" (Donaldson).

"Because I Love You" (Berlin).

10.44 p.m.—THE SUNDOWNERS, Quartette:

"The Drive Back to Dixie."

"Believe Me if All" (Hewer).

10.51 p.m.—Sporting Notes by "Olympus."

10.55 p.m.—BYD FAYNE, the Singing Co-

median:

"Meet Me."

Selected.

11.2 p.m.—OUR GREAT THOUGHT:

"Music the mediator between the spiritual

and the sensual life. Although the spirit be

not master of that which it creates through

music, yet it is blessed in this creation,

which like every creation of art, is mightier

than the artist."

—Beethoven.

11.5 p.m.—JOE ARONSON AND HIS

SYNCO-SYMPHONISTS:

11.45 p.m.—GOD SAVE THE KING.

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4QG, BRISBANE.

Tuesday.

MIDDAY SESSION.

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

1.30 p.m.—Lunch music.

1.50 p.m.—Standard time signal.

2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—A programme of music from the Elodiu.

4.15 p.m.—"The Telegraph" news.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

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

6.15 p.m.—Lecture: A Talk arranged by the Queensland Radio Transmitters' League.

6.30 p.m.—The Children's Hour.

7 p.m.—"Circle Time."

7 p.m.—Special News Service; market reports; Stock reports.

Solo, "Gee bring tea me."
R. O. Costello, tenor.
Chorus, "As food kin."
8.40 p.m.—From the Studio:
Mr. W. F. Kay, in imitation of Genet
A tort.
8.45 p.m.—From Falgout's Concert Hall:
Concluding home of the programme by the
Sydney Flute Club.
10.15 p.m.—From the Studio:
"De Morrison and his 'Gloomchasers'"
10.30 p.m.—Vocal numbers from the Studio.
10.50 p.m.—Late weather forecast.
11.11 p.m.—"De Morrison and his 'Gloom-
chasers'."
11.45 p.m.—Blind music.
11.57 p.m.—"De Morrison and his 'Gloom-
chasers'."
12.01 p.m.—Big news and announcements.
12.15 p.m.—"Big News"
"De Morrison and his 'Gloomchasers'."
12.30 p.m.—National Anthem.

2BL, SYDNEY.

Wednesday.

EARLY MORNING SESSION

7 a.m. to 8 a.m.

MORNING SESSION.

8 a.m.—G.P.O. Clock and chimes.
Musical programme from the studio.
10.15 a.m.—Women's Section. Talk on
"Activities" by Miss Helen Varley, Broad-
casters' Women's Sports Authority.
Social Notes: Replies to correspondents by
Miss Jordan.
Talk on "Dental Hygiene" by a member of
the Dental Board.

AFTERNOON SESSION.

Racing information broadcast immediately
after each race by courtesy of the "Sun"
correspondent.
12 p.m.—G.P.O. Clock and chimes.
Special Ocean Forecast and weather report.
12.30 p.m.—Musical programme from the studio
and information. Music, Shipping and
sport directory.
12.41 p.m.—Boats in sail by wireless.
12.45 p.m.—Fruit Market report.
12.50 p.m.—Vegetable Market report.
12.57 p.m.—London Metal market report.
12.59 p.m.—Dairy Farm Produce Market re-
port.

12.59 p.m.—Foreign Market report.
1.00 p.m.—Fish Market report.
1.05 p.m.—Rabbit market report.
1.10 p.m.—Stock Exchange report.
1.21 p.m.—H.M.V. Gramophone Record.
1.24 p.m.—Stock Exchange report.
1.30 p.m.—G.P.O. Clock and chimes. To
children and special entertainment for chil-
dren in Hospital.

1.40 p.m.—G.P.O. Clock and chimes. Racing Re-
sume.
1.45 p.m.—Musical programme from the studio.
1.50 p.m.—News from "Sun."
1.55 p.m.—Operatic Talk "The Great Com-
posers."

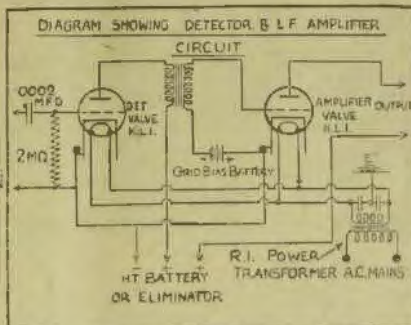
2.00 p.m.—G.P.O. Clock and chimes. Racing
Resume.
2.05 p.m.—Concert from the studio arranged
by Mrs. G. R. Hodgkinson.
2.10 p.m.—G.P.O. Clock and chimes
News from "Sun."

2.15 p.m.—Dunstan Dance Band, broadcast
from the Dunstan Cabaret.
2.20 p.m.—G.P.O. Clock and chimes.
News from "Sun."

2.25 p.m.—Musical programme from the Studio
1.15 p.m.—Serial Story.
2.30 p.m.—Dunstan Dance Band.
2.35 p.m.—News from the "Sun."
2.40 p.m.—Resume of night's programme.
2.45 p.m.—Special Ocean Forecast.
2.50 p.m.—G.P.O. Clock and chimes.
Racing Resume.

EARLY EVENING SESSION.

7.15 p.m.—G.P.O. Clock and chimes. Children's
Session.
7.30 p.m.—Musical programme from the studio.
SPECIAL COUNTRY SESSION.
8 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance
Co's report.



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Producers' Distributing Society's Fruit and Vegetable Market report.
Stock Exchange reports.
Grain and Fodder report ("Sun.")
Daily Produce Report ("Sun.")
N.R.M. & Talk.
7.15 p.m.—Country news from the "Sun."
7.30 p.m.—Talk on "Cinema" by Dr. McKelehan.
8 p.m.—G.P.O. clock and chimes.
Broadcasters' Topical Clocus.
8.3 p.m.—Miss Heather Kinnaird, concert.
8.40 p.m.—Mr. George Hanlon, novelty jazz pianist.
8.45 p.m.—Mr. Douglas Graham, Scottish comedian.
8.54 p.m.—The Canterbury District Band (Bandmaster Mr. Rian Nicollis) broadcast from Baker's Hall, Campbell.
8.54 p.m.—Mr. Norman Wright, tenor song.
8.51 p.m.—Broadcasters' all sports expert will talk on "Boxing, golf and general sporting news."
9.8 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
9.1 p.m.—Mr. George Hanlon, jazz numbers on the piano.
9.14 p.m.—Miss Heather Kinnaird.
9.21 p.m.—The Canterbury District Band. (Classical and popular selections.)
9.41 p.m.—Resume of racing results.
9 p.m.—Grayhound Course, Epping.
9.44 p.m.—Mr. Douglas Graham.
9.51 p.m.—Mr. Norman Wright.
9.53 p.m.—Resume of following day's programme.—G.P.O. clock and chimes.
10 p.m.—Dorothy Manning and Harry Graham presents humor and harmony.
10.15 p.m.—Dance music by Danny Hogan's Frisco Six transmitting from the ballroom of the Bondi Casino. During intervals between dances "Sun" news will be read from the Studio.
11 p.m.—G.P.O. clock and chimes.
National Anthem.

2GB, SYDNEY

- Wednesday.**
- MORNING SESSION.**
- 2 a.m.—Music.
 - 8.5 a.m.—"Good Cheer" Talk.
 - 9.15 a.m.—Music.
 - 9.25 a.m.—Psychological Class.
 - 9.40 a.m.—Music.
- AFTERNOON SESSION.**
- 3.30 p.m.—Music.
 - 3.37 p.m.—Address.
 - 3.52 p.m.—Music.
 - 4 p.m.—Address.
 - 4.25 p.m.—Music.
 - 4.30 p.m.—Close down.
 - 6.30 p.m.—Children's Session.
- EVENING SESSION.**
- 7 p.m.—Address.
 - 7.15 p.m.—Benediction Services.
 - 7.40 p.m.—Address.
 - 7.55 p.m.—Songs by EVA CROFT:
 1. "When Childer play" (Walford Davies).
 2. "Where art Thou?" (Handel).
 - 8.5 p.m.—Address by Dr. F. K. Romt.
 - 8.30 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK.
 - 8.30 p.m.—ELEMERT HOSKING: Vocal Quartet: "A Pageant of Summer," by May Brabe.
 - ELSIE BROWN, EVA CROFT, FREDERICK TURRELL, ELEMERT HOSKING
 - 8.58 p.m.—Vocal solo, DAN SCULLY: "Minnit in E Flat" (Beethoven).
 - 8.58 p.m.—Songs by FREDERICK TURRELL:
 1. "Who is Sylvia?" (Schubert).
 2. "Macaulay" (MacMurrugh).
 - 9 p.m.—Recital by Mr. Heath Burdock.
 - 9.15 p.m.—Songs, ELSIE BROWN: "In Springtime"; ELSIE BROWN AND EVA CROFT.

- "In a Garden of Broom" (Sanderson).
ELSIE BROWN AND ELEMERT HOSKING
9.27 p.m.—Instrumental Trio: LLEN BREWER, MURIELLE LANG, ADA BROOK.
9.31 p.m.—Concert Solo: F. COGHMAN.
9.45 p.m.—Piano Solo: ADA BROOK.
9.55 p.m.—"Good Cheer" Talk.
10 p.m.—Close down.

2 UW, SYDNEY

- Wednesday.**
- MORNING SESSION.**
- 9 a.m.—News, shipping, music, studio items.
 - 9.45 a.m.—Women's session.
 - 9.55 a.m.—Resume of forward programme.
 - 10 a.m.—Close down.
 - 12.15 p.m.—Special employees Luncheon.
 - 12.45 p.m.—Close down.
- AFTERNOON SESSION.**
- 2 p.m.—Studio items.
 - 2.35 p.m.—Resume of forward programme.
 - 3 p.m.—Close down.
 - 5 p.m.—Studio items.
 - 5.35 p.m.—Resume of forward programme.
 - 8 p.m.—Close down.
- EVENING SESSION.**
- 7 p.m.—"Saviors" selection.
 - 7.4 p.m.—Where to go.
 - 7.48 p.m.—Pianoforte solo, Mrs. A. Dalton Selected.
 - 7.15 p.m.—Miss Cecely Ellis, mezzo soprano Selected.
 - 7.25 p.m.—Studio selections.
 - 7.35 p.m.—Miss Sylvia Churchill, mezzo soprano: "Gray Morn."
 - 7.55 p.m.—Studio selections.
 - 7.45 p.m.—Gordon James McDonald, Jazz Interlude:
 - (a) "Meadowlark"
 - (b) "Waiting"
 - (c) "It depends on you"
 - (d) "No Rue"
 - (e) "Yesterday"
 - 8 p.m.—Douglas Rae, tenor: "Absent" (Sanderson).
 - 8.4 p.m.—Mrs. A. Dalton, pianoforte solo Selected.
 - 8.8 p.m.—Miss Sylvia Churchill, mezzo soprano: "Spring of Paris"
 - 8.12 p.m.—Gordon James McDonald, Jazz solo:
 - (a) "Me Too"
 - (b) "Serenade"
 - 8.18 p.m.—Douglas Rae, tenor: "Religie" (Massenet).
 - 8.22 p.m.—Studio selections.
 - 8.37 p.m.—Miss Cecely Ellis, mezzo soprano Selected.
 - 8.42 p.m.—Douglas Rae, tenor: "The Elf Man" (Clarke).
 - 8.46 p.m.—Studio selections.
 - 8.50 p.m.—Mrs. A. Dalton, pianoforte solo Selected.
 - 8.55 p.m.—Miss Sylvia Churchill, mezzo soprano: "Pines Song at Erendide."
 - 9 p.m.—News and weather forecast.
 - 9.4 p.m.—Studio selections.
 - 9.25 p.m.—Resume of forward programme.
 - 9.58 p.m.—God Save the King.

3LO, MELBOURNE

- Wednesday.**
- 10 noon.—Melbourne Observatory time signal.
 - 12.1 p.m.—Metal prices received by the Australasian Mines and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Reuters and the Australian Press Association cables. Argus news service.
 - 12.70 p.m.—JOE ARONSON AND HIS SYNCOPATED ORCHESTRA:
 - "That's Dolly" (Kabn).
 - "There's Everything Nice About you" (Bryan).
 - "The Lunatic's Lullaby" (Lomic).

12.29 p.m.—ANNA BURKE, soprano.

"I'm back again in the land of my birth—
Ireland. In fancy I see the little white
cottages at the foot of the hills—the narrow
road winding miles and miles till it is lost
in the purple distance—the smell of peat
in my nostrils—and down the narrow street
comes a maiden singing:

"The Hills of Donegal" (J. O'Reilly).
"Little Town in Gold County Down" (Cacic
and Fandora).

12.34 p.m.—Stock Exchange information.

12.39 p.m.—JOE ARONSON AND HIS

SYNCO-SYMPHONISTS:

"Wanted and More" (Selling).

"Duck-a-Doode I'm Of My Noodle My
Baby Back" (Johnson).

1.05 p.m.—SYD FAYNE, comedian.

"Shingled or Bobbed."

Selected.

12.55 p.m.—JOE ARONSON AND HIS

SYNCO-SYMPHONISTS:

1 p.m.—Melbourne Observatory time signal.

"Selected."

"Open your eyes to see Beauty—yes, even

in the city. The lights reflected on the gleaming

roadways at night—the vivid green

of freshly-watered lawns—the orange radiance

of flowers touched by the strongest sunlight—

the witchery of starlight. All this joy if

you but Open Your Eyes.

1.15 p.m.—JOE ARONSON AND HIS

SYNCO-SYMPHONISTS:

"You Went Away Too Far and You Stayed

Away Too Long" (Byran).

"The Student Prince Waltz" (Bombsley).

"The Last Word" (Kahn).

1.18 p.m.—Meteorological information. Weather

forecast and rainfall for Victoria, Tas-

mania, South Australia and New South Wales.

Ocean forecast. River reports.

1.15 p.m.—CY FIELE, the Ukulele Troubadour:

"When the Honey-moon was Over" (Fisher).

"No No" (Rock-Handley).

1.24 p.m.—JOE ARONSON AND HIS

SYNCO-SYMPHONISTS:

"Big Zig" Piano solo (Bloom).

"The Monkey Doodle Do" (Berlin).

"What Are We Waiting for" (Cushow).

1.33 p.m.—ANNA BURKE, soprano. More

Irish Melodies:

"Maggie Malone" (Noel).

Selected.

1.49 p.m.—JOE ARONSON AND HIS

SYNCO-SYMPHONISTS:

"I wish you belong to me" (Cushow).

"Rosalie St. Blane" (Rosa).

"Oh, Marie" (Handy).

1.49 p.m.—CY FIELE, the Ukulele Trou-

badour:

"Somebody Like You" (Friend-Donahison).

"If an Apple tempted Adam" (Gerbet-L.

Silver).

1.56 p.m.—MR. H. WEBB, of the Tasmanian

Tourist Bureau, Melbourne, will talk on

"Tasmania."

1.55 p.m.—Description of the Novice Handicap.

The furlongs, BALLARAT TURF CLUB, by

"Muskiet" of The Sporting Globe.

1.59 p.m.—Close down.

1.59 p.m.—Description of Jumpers' Flat Race.

1½ miles, BALLARAT TURF CLUB, by

"Muskiet" of The Sporting Globe.

1.59 p.m.—Close down.

AFTERNOON SESSION.

1.59 p.m.—Melbourne Observatory Time Signal.

2.1 p.m.—ERN MITCHELL AND THE RE-

CENT CONCERT ORCHESTRA:

March "The O.C." (Reeve).

Overture, "Plymouth Hoe" (Arnold).

2.10 p.m.—MAGGIE FOSTER, violin:

"Hugs, Choo" (Hugs).

2.15 p.m.—Description of B.T.C. Plate, six

furlongs, BALLARAT TURF CLUB, Ball-

arat, by "Muskiet" of The Sporting Globe.

2.18 p.m.—VICTORIA, WILSON, sustans.

"Buckingham Palace."

"Fanning By" (Edward Furell).

2.17 p.m.—ERN MITCHELL AND THE RE-

CENT CONCERT ORCHESTRA, Suite.

"Three Dances from Henry VIII." (Ger-

man).

2.24 p.m.—ALBERT CARLISLE, Tenor, now

singing in "The Student Prince" (by

permission J. C. Williamson Ltd.):

"Lorraine" (Sanderson).

"Angels Guard Them" (Godard).



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8.45 p.m.—Description of Greenfield Handicap, one mile, BALLARAT TURF CLUB, Ballarat, by "Master" of the Sporting Globe.

9.00 p.m.—ERN MITCHELL AND HIS REGENT CONCERT ORCHESTRA:
Serenade, "Britannia's Ballad" (London Record).

9.10 p.m.—VICTORIA WILSON, soprano:
"O Thank Me Not" (Ballad).

9.20 p.m.—"Over the Mountains" (Quilter).
9.30 p.m.—MAGIE FAHNEY, violin:
"Soleil et Rubinstein" (Cyril Mack).

9.40 p.m.—Description of B.T.C. Purse, six furlongs, BALLARAT TURF CLUB, Ballarat, by "Master" of the Sporting Globe.

9.50 p.m.—ERN MITCHELL AND HIS REGENT CONCERT ORCHESTRA, Ballarat:
"The Baker" (Quilter).

10.00 p.m.—ALBERT GARLICK, tenor:
"Let me sit in your garden" (Russell).
"That's how the world was made" (Nichols).

10.10 p.m.—ERN MITCHELL AND HIS REGENT CONCERT ORCHESTRA.
Selection, "Maid of the Mountains" (Simpson).

10.20 p.m.—Description of Flying Handicap, five furlongs, BALLARAT TURF CLUB, Ballarat, by "Master" of the Sporting Globe.

10.30 p.m.—Herald News Service. Stock Exchange information.
10.40 p.m.—Mr. LINLEY will talk on "Marriage Law."

10.50 p.m.—Close down.

EVENING SESSION.

8.30 p.m.—Answers to Letters and Birthdays.
Crediting by "MARY MARY."

8.40 p.m.—Mr. W. H. BUTCHER will talk to boys and girls on:
Charm of Stamp Collecting.

8.50 p.m.—STUDIO QUARTETTE:
"A Dutch Windmill" (Kamenicki).
"Sparklets" (Miles).

9.00 p.m.—"MARY MARY"
"Timon and the Minotaur."

9.10 p.m.—Official report of Newmarket Stock Sale by the Associated Stock and Station Agents, Bourke street, Melbourne. Number of sheep and cattle drawn for weeks sales.

9.20 p.m.—Herald News Service. "Weather synopsis. Shipping movements."

9.30 p.m.—Stock Exchange information.
9.40 p.m.—Fish Market reports, by J. R. BOURKE Ltd. Rabbit prices.

9.50 p.m.—River reports.
10.00 p.m.—Market reports by the Victorian Producer's Co-operative Co. Ltd.—Poultry, Grain, Hay, Straw, Fat, Dairy Produce, Poultry, and Ostrich. Market reports of fruit by the Victorian Producers' Association—Retail Prices. Wholesale Prices of Fruit by the Wholesale Fruit Merchants' Association. Citrus Fruits.

NIGHT SESSION.

7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, Mr. R. CROWK, Acting Director of Agriculture, will speak on:
"Marketing Methods."

7.30 p.m.—Mr. P. W. PEARCE will speak on:
"The Importance of Good Pasture."

7.45 p.m.—CAPTAIN G. H. PETERS,
"Books, Wine and Otherwise."

8.00 p.m.—BRIG-GEN. T. A. SLAMEY, C.B., C.M.G., D.S.O., will speak on:
"The Police Charity Campaign."

8.10 p.m.—A PROGRAMME OF ENGLISH MUSIC.
(Arranged by MARY CAMPBELL, Albert Street, Conservatorium).

Choir:
"The Seeds of Love" (Folk Song).
"The Cuckoo" (Folk Song).
"Strawberry Fair" (Folk Song).

10A SUZUKI,
Folk Song Fantasia for the Piano
"Strawberry Fair."

LILLIAN STOTT, soprano:
"The Lass With the Delicate Air" (Michael Arne).
"Cherry Ripe" (Horn).
"Pastors" (Carpenter).

IDA SCOTT, piano:
"His Dance" (Cecil Taylor).

"Half Holiday" (York Bowen).
JEAN HAMILTON, contralto:
"Waltz Corraline" (Grieg).
"The Songster" (Hart).

PART SONGS for Female Voices:
Gina 44 (Gustav Hout).
"O Love, Who is This?" (Gustav Hout).
"O Love, Coronalia" (Gustav Hout).

Arrival of "Aberystwyth" (Gustav Hout).
By the Conservatorium Ladies' Choir, with String Accompaniment.

Conductor, ERIC HART.
10A SUZUKI, piano:
"Serenade" (Frank Bridge).

JEAN HAMILTON, contralto.
"Loving Earthquake" (Hubert Parry).
"On a Fine the Amorous Siles" (Hubert Parry).

"To Myself" (Eric Hart).
"The Shepherd" (Eric Hart).
"Fountain" (Eric Hart).

PART SONGS, Gipsy 44:
"When First We Met" (Thomas H. Hall).
"Gipsy and Joe" (Gustav Hout).
"Love on My Heart from Heaven Fall" (Conservatorium Ladies' Choir, with String Accompaniment. Conductor, ERIC HART).

8.20 p.m.—Announcement:
The Royal Automobile Club of Victoria's Safety Message for today is "SEEK PEDESTRIAN."

Help the young and the infirm, whenever you can, but especially when crossing the road. Never cut things too fine when crossing the road.

8.30 p.m.—RAILWAYS MILITARY BAND:
Waltz: "Lustere Brude" (Volpert).
8.35 p.m.—MARION LIGHTFOOT, banjo:
"Poppies and Wheat."

8.40 p.m.—ANNA BURKE, soprano: In more Gems from the Emerald Isle.
"The Next Market Day" (Irish Folk Song).

8.45 p.m.—RAILWAYS MILITARY BAND:
Suite: "Ballad Soprano" (Lengelin).
9.00 p.m.—SYD. FAYNE, comedian:
"Neville Tom Old."

Selected.
10.4 p.m.—Argus news service. Meteorological information. British Official Wireless news.

10.15 p.m.—MAGGIE FOSTER, violin:
"Serenade" (Toselli).
"Chanson-Triples" (Tschalkowski).

10.20 p.m.—RAILWAYS MILITARY BAND:
"Lonely Avenue in the West" (Lengelin).
10.25 p.m.—CY PIER, the Ukulele Troubadour:
"O God, George" (Herman).

"Why couldn't it be poor little me" (Kahn-Jones).
10.32 p.m.—RAILWAYS MILITARY BAND:
Morceau, "Turkish Patrol" (Michalosi).

10.35 p.m.—ANNA BURKE, soprano:
"I Know Where You Goin'" (Irish Folk Song).
"If Winter Comes" (Gibson).

10.45 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
"Sassy Boy" (Stamper).
"Swinging Alone" (Hay).
"The Love Waltz" (Jaccusi).

"Lonely Avenue in the West" (Robiecht).
"House" (Rainsford).
11 p.m.—OUR GREAT THOUGHT:
"He who initiates what is evil always goes beyond the example that is set; on the contrary he who initiates what is good always falls short." (Gueliclarfeld).

11.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Wednesday.

EARLY MORNING SESSION.

4.30 a.m.—Physical culture session.
7 a.m.—Close down.

MIDDAY SESSION.

1 p.m.—Market reports; Weather information:
"The Daily Mail" and "The Daily Standard" news.
1.30 p.m.—Lunch hour music.

1.55 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: "The Marriage of Figaro" (Mozart).
Valse: "Dress on the Ocean" (Gungl).
Saxophone solo: "Saxophone" (Windt).
Selection: "The Blue Kitten" (Fritzi).
March Slav: "Entry of the Bulgars" (Luttre).
Morceau: "Fairy Tiptoe" (Fredericks).
One Step: "El Cam" (Jensen).
Fox Trot: "I'll follow your Footstep" (Lang).

4.15 p.m.—"The Telegraph" news.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—"Daily Standard" news; announcements.
6.15 p.m.—Lecturette: A Beauty Talk by Dorothea Webster.
6.30 p.m.—The Children's Hour: Stories by "Little Miss Brisbane."
7 p.m.—Special news service; Market reports; Stock reports.
7.30 p.m.—Weather news; announcements.
7.45 p.m.—Standard time signal.
7.45 p.m.—Lecturette: "Feeding for Production," by Mr. A. J. McKenzie, Lecturer in Animal Husbandry, Queensland Agricultural High School and College.

NIGHT SESSION.

PART I.—SILKSTONE APOLLO CLUB.

The first portion of to-night's programme will be provided by the Silkstone Apollo Club (Conductor, Mr. T. Westwood).

-PART II.—THE SLEATH TRIO.

8 p.m.—FROM THE STUDIO:
A programme of choral music by the Silkstone Apollo Club.

8.30 p.m.—FROM THE STUDIO:
A programme by the Sleath Trio.

Overture: "Lois di Lammemoor" (John Thomas).
"The Trio."

"Cello solo: "Prelude" (Corvelli).
Mr. Sleath.

Harp solo: "La Cascade" (Oberthor).
Mrs. L. Corrigan.

Harp and Piano: "Chant du Paysan" (Roudano).
Mrs. L. Corrigan and Mrs. Sleath.

"Cello and Harp: "Serenade" (Danbert).
Mrs. Sleath and Mrs. L. Corrigan.

"Cello and Piano: "Hollandsise" (Dankler).
Mr. Sleath and Mrs. Sleath.

Harp solo: "Berceuse" (Hasselman).
Mrs. L. Corrigan.

Violin solo: "Tavotte" (Gosse).
Mr. Sleath.

Violin and Harp: "Serenata" (de Brasi).
Mr. Sleath and Mrs. L. Corrigan.

Piano, Harp and Violin: "Songs d'Amour
in Ball" (Jehlik).
Mrs. Sleath, Mrs. Corrigan, and Mr.
Sleath.

FROM THE STUDIO:
10 p.m.—"The Daily Mail" news; weather
news. Close down.

6WF, PERTH.

Wednesday.

12.30 p.m.—Tune in.
12.55 p.m.—First Local News Bulletin, supplied by courtesy of "The West Australian" Newspaper Coy.
Cables supplied by the Australian Press Association.
Market Reports, supplied by the Westralian Farmers, and Producer's Markets Limited.
1 p.m.—Time Signal from Perth Observatory.
1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
1.3 p.m.—Quintette Orchestra. Conductor, Mr. Val Smith.
Vocal numbers, selected.
2 p.m.—Close down.
2.30 p.m.—Tune in.

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SYDNEY.

5.35 p.m.—Afternoon Concert, including instrumental and vocal numbers.

6.30 p.m.—Close down.

7.00 p.m.—Time in.
THE EVENING TRANSMISSION IS BROADCAST ON 104.3 METRES, AS WELL AS THE USUAL WAVELENGTH.

6.50 p.m.—Stories by Austin Jase and Uplee Dine.

7.20 p.m.—Late News, Markets, Stocks and Cables.

7.45 p.m.—Talk.

8 a.m.—The Signal from Perth Observatory.

8.30 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
CONCERT NIGHT.

8.5 p.m.—Maylands Orpheus Society, including vocal recital.

10 p.m.—Late News, Weather Reports, and Ships within range announcement.

10.30 p.m.—Close down.

Thurs., Dec. 8 2FC, SYDNEY

EARLY MORNING SESSION.—7 to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.

10.5 a.m.—Studio music.

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

10.30 p.m.—Studio music.

10.35 a.m.—Last minute racing information by the JFC Commissioner.

10.45 a.m.—Studio music.

11 a.m.—"Big Ben."

11.10 a.m.—"Big Ben" and announcements.

11.15 a.m.—A.P.A. and Reuter's Cables.

11.30 a.m.—Studio music.

11.45 a.m.—A Reading.

11.55 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.

12.2 p.m.—Stock Exchange, first call.

12.3 p.m.—Official weather forecast rainfall.

12.5 p.m.—Studio music.

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

12.30 p.m.—Rogay wireless news.

12.35 p.m.—Studio music.

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

12.45 p.m.—Studio music.

12.45 p.m.—The Oak Hall Instrumental Trio (Leader, Mr. Horace Keats).

12.55 p.m.—Studio music.

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

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

Producers' Distributing Society's Report.

1.20 p.m.—The Oak Hall Instrumental Trio.

1.25 p.m.—Stock Exchange second call.

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

1.40 p.m.—Margaret Rutherford contralto.

1.45 p.m.—Studio music.

1.50 p.m.—The Oak Hall Instrumental Trio.

1.55 p.m.—From the Studio.

The JFC Racing Commissioner will give the latest sporting information.

7.5 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.

3.5 p.m.—From the Christ Church, St. Laurence, Sydney. Continuation of the Organ Recital by Mr. Christian Hollemann.

4.20 p.m.—From the Studio:

Ether Herford, soprano:

"A Brown Bird Singing" (Wood).

4.25 p.m.—From the Christ Church, St. Laurence, Sydney. Continuation of the Organ Recital by Mr. Christian Hollemann.

4.40 p.m.—From the Studio:

Barbara Brisbane, contralto:

"If any Little Song" (Dei Ringel).

4.45 p.m.—From Farmer's Tea Room:

The Oak Hall Instrumental Trio (Leader, Mr. Horace Keats).

4.50 p.m.—From the Studio:

Rita Head, mezzo:

"Open the Gates of the Temple" (Knepp).

4 p.m.—Eileen Moran, soprano:

"At Dawning" (Gladman).

4.5 p.m.—From the Christ Church, St. Laurence: Organ recital by Mr. Christian Hollemann.

4.20 p.m.—From the Studio:

Mary Craven, mezzo:

"The Bird Song" (Fuehrli).

4.30 p.m.—Ether Herford, soprano:

"Gosh ye, ye, Barnie" (Traditional).

4.35 p.m.—From Farmer's Tea Room:

The Oak Hall Instrumental Trio (Leader, Mr. Horace Keats).

4.35 p.m.—From the Studio:

Barbara Brisbane, contralto:

"Pleading" (Anderson).

4.40 p.m.—Rita Head, mezzo:

"The Fairies' Jubilee Song" (Trueman).

4.45 p.m.—"Oak Exchange" 40/1 cut.

4.47 p.m.—Eileen Moran, soprano:

"Oas of the Darkness" (Bilinski).

4.50 p.m.—Mary Craven, mezzo:

"Favourite Love Song" (Thomas).

4.55 p.m.—Studio music.

5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION

5.40 p.m.—The Chimes of 2FC.

5.45 p.m.—The "Hello Man" talks to the children.

6.20 p.m.—Story time for the young folk.

6.30 p.m.—Studio music.

7 p.m.—"Big Ben" Late sporting news.

7.10 p.m.—"Oak Exchange" market reports (wheat, wheat and stock).

7.15 p.m.—Fruit and vegetable markets.

F.D.S. Poultry Markets.

7.25 p.m.—Weather and shipping news.

7.30 p.m.—"Evening News" in a news service.

NIGHT SESSION

7.40 p.m.—Programme announcements.

7.45 p.m.—From the Studio:

The Auburn Domestic School Choir:

Parton, accompaniment and unaccompanied,

conducted by Miss Edie Moss:

"Beautiful voices" (arr. Fehsche).

"Gracie Song" (Schubert).

"The Gays are Spinning" (Copied).

"Sweet and Low" (Barney).

"A Dryad Asken" (West).

8 p.m.—"Big Ben" and announcements.

From the Lyceum Theatre, Pitt Street, Sydney:

Orchestral items.

8.10 p.m.—From the Studio:

The Auburn Domestic School Choir, conducted by Miss Edie Moss:

"Old Felix Noddy" (Sheridan).

"Carmena" (Lillian Wilson).

"Awake" (Pellissier).

"Vegetian Boat Song" (Trout).

8.24 p.m.—Scott Alexander, in a play specially prepared for broadcasting.

8.25 p.m.—Madame Lillian Gibson, contralto:

"Red Rover" (Braham).

"The Lavender Soler" (Smith).

8.50 p.m.—Carlton Fay, pianoforte solo.

9 p.m.—Late weather forecast.

9.1 p.m.—Margaret James, soprano:

"The Robin's Son" (White).

"I Know how to Tie the Ribbon Bow" (Old French).

9.15 p.m.—From the Lyceum Theatre, Pitt Street, Sydney: Orchestral items.

9.25 p.m.—From the Studio:

Madame Lillian Gibson, contralto:

"Fair Spring is Returning" (Saint Saens).

"Waters of Minnetonka" (Licourne).

9.35 p.m.—Scott Alexander, in a One-Act Play.

9.45 p.m.—Flore Allan, comedienne (by permission of J. C. Williamson, Ltd.).

9.50 p.m.—Carlton Fay, pianoforte solo.

10 p.m.—"Big Ben."

Margaret James, soprano:

"A Southern Song" (Ronald).

10.10 p.m.—From the Lyceum Theatre, Pitt Street, Sydney: Orchestral items.

10.20 p.m.—From the Studio:

Len Maurico, vocal number.

Latest weather forecast.

10.24 p.m.—Flore Allan, comedienne (by permission of J. C. Williamson, Ltd.).

10.30 p.m.—From the Ambassadors:

The Ambassadors Orchestra, conducted by Mr. A. Harnmel.

10.40 p.m.—From the Studio:
 Len Maurien, popular baritone.
 10.47 p.m.—From the Ambassadors:
 The Ambassadors Dance Orchestra.
 10.57 p.m.—Late news and announcements
 from the Studio.
 11 p.m.—Len Maurien, popular baritone.
 11.8 p.m.—The Ambassadors Dance Orchestra.
 11.20 p.m.—National Anthem.
 Close Down.
 Note: From the Studio: Mr. Raymond Ellis,
 English operatic baritone, will sing during
 the evening.

2BL, SYDNEY.

Thursday.
EARLY MORNING SESSION
 7.4 a.m. to 9 a.m.
MORNING SESSION.
 10.30 a.m.—G.P.O. Clock and Chimes: Musical
 Programme from the Studio.
 10.40 a.m.—News from the "Daily Telegraph
 Pictorial".
 10.50 a.m.—Musical Programme from the
 Studio.
 11.0 a.m.—G.P.O. Clock and Chimes: An-
 nouncements.
 11.2 a.m.—Musical Programme from the
 Studio.
 11.15 a.m.—Women's Session: Social Notes
 Replies to Correspondents by Mrs. Jordan.
 Talk on "Housing," by Mr. Bowen.
 11.30 noon.—G.P.O. Clock and Chimes: Special
 Women Forecast and Weather Report.
 11.35 p.m.—Musical Programme from the
 Studio.
 11.5 p.m.—Information: Mails, Shipping and
 Post Directory.
 12.11 p.m.—Boats in Call by Wireless.
 12.15 p.m.—Fruit Market Report.
 12.25 p.m.—Vegetable Market Report.
 12.47 p.m.—London Metal Market Report.
 12.58 p.m.—Dairy and Farm Produce Market
 Report.
 12.55 p.m.—Ferry Market Report.
 12.24 p.m.—Fish Market Report.
 12.26 p.m.—Rabbit Market Report.
 12.28 p.m.—Stock Exchange Report.
 12.30 p.m.—H.M.V. Gramophone: Health.
 1.27 p.m.—Stock Exchange Report.
 1.28 p.m.—G.P.O. Clock and Chimes: Talk to
 Children and Special Entertainment for
 Children in Hospital.
 2.8 p.m.—G.P.O. Clock and Chimes: Close
 Down.
AFTERNOON SESSION.
 Racing Information Broadcast, immediately
 after each Race by courtesy of the "Sun."
 2.6 p.m.—G.P.O. Clock and Chimes: Musical
 Programme from the Studio.
 2.16 p.m.—News from the "Sun."
 2.20 p.m.—Musical Programme from the
 Studio.
 2.30 p.m.—News from the "Sun."
 2.40 p.m.—Dungowan Dance Band, broadcast
 from the Dungowan Calaret.
 2.9 p.m.—G.P.O. Clock and Chimes: News
 from the "Sun."
 2.5 p.m.—Musical Programme from the
 Studio.
 3.15 p.m.—Serial Story.
 3.20 p.m.—Dungowan Dance Band.
 3.30 p.m.—News from the "Sun."
 3.45 p.m.—Recruits of Night's Programme.
 3.57 p.m.—Morning Remembrance.
 4.20 p.m.—Special Down Forecast.
 4.3 p.m.—G.P.O. Clock and Chimes: Close
 Down.
EARLY EVENING SESSION.
 4.45 p.m.—G.P.O. Clock and Chimes: Chid-
 ren's Session.
 5.20 p.m.—Musical Programme from the
 Studio.
SPECIAL COUNTRY SESSION.
 7.0 p.m.—G.P.O. Clock and Chimes: Aus-
 tralian Mercantile Land and Finance Co.'s
 Report: Weather Forecast and Forecast by
 courtesy of Government Meteorologist; Pro-
 ducers' Distributing Society's Fruit and
 Vegetable Market Report; Stock Exchange
 Reports: Grain and Fodder Report ("Sun");
 Dairy Produce Report ("Sun"); Weekly
 Traffic Bulletin: Talk About Books.
 7.15 p.m.—Country News from the "Sun."
 7.20 p.m.—Retold Hints to Listeners by
 Mr. Alan Burrows.

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Fancy a portly fat man in the dead centre of a heat wave telling me that it was "terrible" to walk around with nothing on. If it had been me I should have refused to wake up.

As a matter of fact, nine-tenths of the fappers you meet in Pitt-street are qualifying for just that kind of nightmare.

The other night I ate curried Middle Harbord prawns for supper and for six ghastly hours I listened in to an infernal mixture of buzz, spit, crackle, fizz and hiss. Just before I woke up, I found that I had been hearing a Bohémie broadcast from Trotakgrád!

Talking of curried prawns reminds me of old Bill. He came in yesterday and begged me to stick a pin in his leg. When I jabbed him with the sharp end of a pair of scissors, he jumped and then groaned:—

"It's true, then! I am awake and my wife has had three girl babies!"

I should be sorry for Bill, but I'm not. We tossed a penny to settle whether he should propose or buy a Philco, and the Philco lost. Now he has three wet batteries instead of one!

If he had bought a Philco 83X Rechargeable Battery he would have had three trouble-free years.

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Moreover, you can buy one on long easy terms from New Studio Telephone Pty., Ltd., of 280 Castlereagh-street, Sydney.

So there was no excuse at all for poor Bill!

8.0 p.m.—G.P.O. Clock and Chimes; Broadcasters' Topical Chorus; Air Hour's Programme presented by Home Recitations Limited.

8.15 p.m.—The Salonica Dance Orchestra.

8.20 p.m.—Madame Gossens Victory (Soprano) in Selections from Her Espérance.

8.25 p.m.—The Salonica Dance Orchestra.

8.30 p.m.—Mr. Robert Turner (Entertainer), Humour and Dramatic Recitations.

8.40 p.m.—Madame Gossens Victory in further Selections from her repertoire.

8.50 p.m.—The Salonica Dance Orchestra.

9.0 p.m.—G.P.O. Clock and Chimes.

9.15 p.m.—Weather Report and Forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.

9.20 p.m.—From the Wemyss Street Hall, Marchville Salvation Army Band (Bandmaster, Mr. H. H. Knight).

9.25 p.m.—From the Studio: Mr. Robert Turner (Entertainer), Humorous Recitation.

9.30 p.m.—Mr. Moore McMahon (Violin Solo).

9.35 p.m.—From Wemyss Street Hall, Marchville Salvation Army Band.

9.40 p.m.—Resume of Following Day's Programme.

9.50 p.m.—Mr. Bert Gilbert (Comedian), assisted by Ivy Hill, presents another Adventure of Mr. Hopsnik.

10.14 p.m.—Mr. Moore McMahon.

10.21 p.m.—Dance Music by Cyril Kaye and The Wentworth Cafe Orchestra, broadcast from the Ballroom of the Wentworth, during intervals between Business News Items, by courtesy of the "Sun" Newspapers, will be read from the Studio.

11.30 p.m.—G.P.O. Clock and Chimes; National Anthem.

3LO, MELBOURNE.

Thursday.

MIDDAY SESSION.

12 noon.—Melbourne Observatory time signal. Metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. Reuter's and the Australian Press Association cables. Broadcast official wireless news from Rugby. "Rugby" news service.

12.05 p.m.—COMMUNITY SINGING, conducted by Mr. G. J. MACKAY, assisted by the STUDIO QUARTETTE. (Conductor, REGINALD BRADLEY. From Studio: ANNA BRUKE, soprano.

"Smile" Through" (A. Penn).

"There's always a song in an Irish Heart" (R. Bill).

MAGGIE FOSTER, violin.

"Mr. Air Folk."

"An Old Air."

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

2 p.m.—Close down.

2.15 p.m.—Description of Hurdle, two miles, Ballarat Turf Club, by "Musket," of the "Sporting Globe."

2.20 p.m.—Close down.

2.45 p.m.—Description of Trud Handicap, five and a half furlongs, Ballarat Turf Club, by "Musket," of the "Sporting Globe."

2.50 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—Melbourne Observatory Time Signal.

3.1 p.m.—REV. KENNETH BENDERSON: "Tones of the Week."

3.15 p.m.—Description of Ballarat Cup, one and a quarter miles, BALLARAT TURF CLUB, by "Musket," of the "Sporting Globe."

3.40 p.m.—Mr. FRITZ HART will talk to Students of Music.

3.55 p.m.—Mr. HOWLETT ROSS, "The Naval Battle off the Falklands in 1814."

3.45 p.m.—Description of Water Handicap, seven furlongs BALLARAT TURF CLUB, by "Musket," of the "Sporting Globe."

3.50 p.m.—STUDIO QUARTETTE:

Selection: "La Traviata" (Verdi).

3.55 p.m.—CY. FEHR, the ukulele troubadour: "My Sweet Alike" (Gilbert-Friedland).

4.1 p.m.—ANNA BERNAN, tells: "Betsy" (Faure).

4.11 p.m.—SYD FAXNE, the singing comedian:

"Selects" and Nines."

4.15 p.m.—Description of Ercildoune Steeple, two miles, BALLARAT TURF CLUB, by "Musket," of the "Sporting Globe."

4.20 p.m.—STUDIO QUARTETTE:

"Katharina Quersich" (Schubert).

4.25 p.m.—ANNA BRUKE, soprano:

In Sweet Irish Melodies—

"She's a Real Irish Mother" (McGhee and Walsh).

"River Shannon Moon" (Wallace Smith).

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

4.45 p.m.—EVENSONG from ST. PAUL'S CATHEDRAL.

4.50 p.m.—Results of Farwell Handicap, six furlongs, BALLARAT TURF CLUB, by "Musket," of the "Sporting Globe."

5.00 p.m.—Acceptances for Saturday's Races, Melbourne.

EVENING SESSION.

5.25 p.m.—Answers to letters and birthday greetings by "Miss MARY GUMPERT."

6 p.m.—W. E. HOPLEY will entertain the children on the month organ.

6.7 p.m.—MISS M. SHEPHERD will tell more strange tales.

6.25 p.m.—W. E. HOPLEY, further selections on the month organ.

6.37 p.m.—ROBERT OPPERMAN, winner of the Dunlop Grand Prix Bicycle Race, will speak to the children.

6.40 p.m.—Original report of Newmarket Stock Sale, by the Associated Stock and Station Agents, Bourke Street, Melbourne, number of sheep and cattle drawn for week's sales.

6.45 p.m.—"Herald" news service. Weather forecasts. Shipping announcements.

6.52 p.m.—Stock Exchange information.

6.57 p.m.—Fish market report by J. R. Burnett, Ltd. Rabbit prices.

6.59 p.m.—River reports.

7.00 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Flour, grain, hay, straw, lute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruitvellers' Association—retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association.

Citrus fruits, Ballarat pig market reports, by the Ballarat Stock and Station agents.

NIGHT SESSION.

7.15 p.m.—Mr. A. W. JACKSON:

"Goli."

7.30 p.m.—Mr. L. A. BROWN:

"A Chat with House Gardeners."

7.45 p.m.—Mr. FRANK WEBSTER, who is now appearing in "THE STUDENT PRINCE" at His Majesty's Theatre, Melbourne, will speak to you from his dressing-room, by permission of J. C. Williamson, Ltd.

8 p.m.—Mr. ROD MCGREGOR:

"Crickets."

8.15 p.m.—JOE ARONSON AND HIS SYNCOPTATING SYMPHONISTS:

"My Blue Bird" (Wright).

"Sing Me a Baby Song" (Rahm).

"Don't Sing Aloha to Me" (Morse).

8.31 p.m.—Songs by the winners of first prize in each of the three grades of the 3LO Melbourne Child Radio Song Competition.

8.34 p.m.—JOE ARONSON AND HIS SYNCOPTATING SYMPHONISTS:

"Black Bottom's Got 'Em" (Jones).

"It All Depends on You" (De Sylva).

"Just an Ivy Covered Shack" (Rapp).

8.43 p.m.—MARION LIGHTFOOT, English concertina:

Leonsvalke's "Serenade"

8.47 p.m.—JOE ARONSON AND HIS SYNCOPTATING SYMPHONISTS:

"Paradise in Mother's Eyes" (Shepard).

"For the Term of His Natural Life" (Hayes).

"Deed I Do" (Risch).

- 8.55 p.m.—MAGGIE POSTER, violin.
Popular choruses.
- 9 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"She's Got It" (Walker).
"Love is Just a Bit of Heaven" (Davis).
"A Song of Old Court" (Walker).
- 9.8 p.m.—MONA NUGENT, soprano:
"Yong-Yong" from the Chinese (Buntch).
- 9.15 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"For My Sweetheart" (Brown).
"Cock-a-Doodie I'm Gie My Noodle" (Johnston).
"How River" (Schwab).
- 9.25 p.m.—MARION LIGHTFOOT, English
concertina:
"Serenade".
- 9.35 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"Mumble Dream Girl" (Law).
"I'm Telling the Doctor" (Brown).
"Swatcky Lullaby" (Miller).
- 9.38 p.m.—MAGGIE POSTER, violin:
"Golden Moments" (Leo Friedman).
- 9.49 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"Go Wash an Elephant if you Wanna do
Something Big" (Tarker).
"He's the Last Word" (Kahn).
"The Song of the Wardener" (More).
9.48 p.m.—MONA NUGENT, soprano:
"Serenade" (Tosti).
- 9.42 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"The Whole World is Laughing at Me"
(Grundel).
"Mine" (Hainley).
"Side by Side" (Woods).
- 10.1 p.m.—Meteorological information. Sporting news by "Olympics." British official Wireless news from Radio. Announcements. "Argus" news service. THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for today is for ALL DRIVERS: "Don't unnecessarily obstruct another driver by holding to the centre of the road after receiving his signal that he wishes to pass."
- 10.18 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"Heaven Help a Sailor on a Night Like
This" (Dubin).
"Spring Fever," piano solo (Marr).
"In a Japanese Garden" (Neubausen).
- 10.25 p.m.—MARION LIGHTFOOT, English
concertina:
"Venetian Gondellies".
- 10.29 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"When Do We Dance" (Gershwain).
"Sweet and Low Down" (Gershwain).
"May, Nay, Neighbor" (Cawlow).
- 10.38 p.m.—MAGGIE POSTER, violin:
"Czerarda" (Monty).
- 10.42 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"Her Have Went, Her Have Gone, Her
Have Left I All Alone" (Smith).
"Days of Hearts and Flowers" (Tokani).
"There's a Trick in Fakin', a Chick, Chick,
Chickie" (Tobias).
- 10.51 p.m.—MONA NUGENT, soprano:
"Nina" (Pergolesi).
- 10.55 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
"The Gull Dance" (Brown).
"I Always Knew I'd Find You" (More).
"Ain't that a Grand and Glorious Feeling"
(Tarker).
- 11.4 p.m.—OUR GREAT THOUGHT.
Let us resolve, first, to attain the grace of
silence; second, to deem all fault-finding
that does no good a sin, and to resolve,
when we are ourselves happy, not to poison
the atmosphere for our neighbors by call-
ing upon them to remark every painful and
disagreeable feature in their life; third, to
practise the grace and virtue of praise.—
Mrs. Stowe.
- 11.5 p.m.—JOE ARONSON AND HIS
SYNCOPIATING SYMPHONISTS:
11.48 p.m.—GOD SAVE THE KING.



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4QG, BRISBANE

Thursday

MIDDAY SESSION.

1.30 p.m.—Market reports; weather information.
1.50 p.m.—A Lunch Hour address.
1.55 p.m.—Standard time signal.

AFTERNOON SESSION.

2.30 p.m.—A programme of Music by the Studio Orchestra.
4.15 p.m.—"The Telegraph" news.

EARLY EVENING SESSION.

6.0 p.m.—"Daily Standard" news; announcements.
6.50 p.m.—From Southport: Bedtime Story Session by the Combined Staff.
7.00 p.m.—Market reports; Stock reports.
7.30 p.m.—Weather news; announcements.
10.45 p.m.—Lectures: "A Talk on Books," arranged by McLeod's.

NIGHT SESSION.

GRAND SOUTHPORT CONCERT.

Tonight's programme will comprise a concert, relayed from the Pier Theatre, Southport.
8.0 p.m.—FROM SOUTHPORT:
Overture: "Arioso" (Waller).

The 4QG's Instrumental Quartette.

(Conductor: Mr. Fred C. Smith.)

Soprano solo: Selected.

Miss Evi Grice.

Male Quartette: "An Opening Chorus" (Sachan).

The Bohemians.

Tenor solo: "My Dreams" (Tosti).

Mr. H. J. Gilroy.

"Southern—a Holiday Resort," by Alderman J. H. Grice (Mayor of Southport).

Four Treble:

(a) "Because They All Love You" (Malle and Lohle).

(b) "In a Little Garden" (Inla).

The Studio Instrumental Quartette.

Baritone solo: "Fals" (Squire).

Mr. Ernest Harper.

Hawaiian Instrumentalists:

The Southport Party.

Monologue: "The Waster" (Murray).

Mr. Tom Muller.

Pianoforte solo: Selected.

Mr. A. Grice.

Male Quartette: "Rose of My Heart" (Lohle).

The Bohemians.

Selection: "In a Mossy Garden" (Kestley).

The Studio Instrumental Quartette.

Tenor solo: "Th' Sing thee Songs of Araby" (Clay).

Mr. Geo. Williamson.

Hawaiian Instrumentalists:

The Southport Party.

Soprano solo: Selected.

Miss Evi Grice.

9.0 p.m.—FROM THE STUDIO

Metropolitan Weather forecast.

PART II.—FROM SOUTHPORT.

Four Treble:

(a) "Why Dear" (Cohen).

(b) "Moonlight" (Cecrad).

The Studio Instrumental Quartette.

Vocal Duet: "Two Friends" (Hall).

Messrs. H. J. Gilroy and E. Harper.

Tenor solo: "Like Stars Above" (Squire).

Mr. G. Williamson.

Male Quartette:

"Little Tommy Went a-Fishing" (Macy).

The Bohemians.

Hawaiian Instrumentalists:

The Southport Party.

Monologue: "An Old Bachelor" (Chevalier).

Mr. Tom Muller.

Overture: "King Madras" (Ellenberg).

The Studio Instrumental Quartette.

Baritone solo: "The Floral Dance" (Macy).

Mr. Ernest Harper.

Male Quartette: "An Evening Pastoral" (Shaw).

The Bohemians.

March: "Ole Galat" (Reidel).

The Studio Instrumental Quartette.

Final Chorus by "The Bohemians."

FROM THE STUDIO:

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

Friday, Dec. 9

2FC, SYDNEY.

EARLY MORNING SESSION.—7.10 to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.
10.30 a.m.—Studio music.
10.45 a.m.—"Spray" Morning Herald" news service.
10.50 a.m.—Studio music.
10.55 a.m.—A Reading.
11.00 a.m.—Studio music.
11 a.m.—"Big Ben."
Marching music for school children.
11.5 a.m.—A.P.A. and House's Cable Services.
11.10 a.m.—Studio music.
11.15 a.m.—A talk on Home Cooking and Recipes by Miss Ruth Funn.

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.5 p.m.—Official weather forecast; rainfall.
1.5 p.m.—Studio music.
12.40 p.m.—Summary of "Sydney Morning Herald" news, service.
1.30 p.m.—Studio music.
1.35 p.m.—Marching music for school children.
1.40 p.m.—Annie Sedger, mezzo.
"The Flower Song" ("Faust") (Gounod).
1.45 p.m.—The Oak Hall Instrumental Trio (Leader, Mr. Horace Kestel).
1.55 p.m.—Studio music.
1.58 p.m.—"Big Ben" Weather Intelligence.
1.4 p.m.—"Living News" midday news service.
1.50 p.m.—The Oak Hall Instrumental Trio.
1.55 p.m.—Stock Exchange, second call.
1.57 p.m.—Marching music for school children.
1.59 p.m.—Annie Sedger, mezzo.
"The Net-mancer" (Clarke).
1.45 p.m.—Studio music.
1.50 p.m.—The Oak Hall Instrumental Trio.
2 p.m.—"Big Ben" Close down.

AFTERNOON SESSION.

2 p.m.—"Big Ben" and announcements.
2.5 p.m.—Jeanette Rooney, contralto.
"How many a lonely chrysalis" (Fiddon).
3.1 p.m.—Nelle Larkin, violinist.
"Serenade" (Druce).
3.15 p.m.—A Reading.
3.30 p.m.—Marching music for school children.
3.40 p.m.—From the Studio:
Fanny Brabell, contralto:
"Sweet and Low."
3.45 p.m.—The Oak Hall Instrumental Trio (Leader, Mr. Horace Kestel; from Farmer's Tea Rooms).
3.45 p.m.—From the Studio:
Kathleen Horne, soprano:
"Believe me if I'll" (Moore).
3.48 p.m.—Nelle Larkin, violinist.
"Annie Laurie" (Miller).
"Serenade" (Druce).
3.5 p.m.—From the Tea Rooms:
The Oak Hall Instrumental Trio (Leader, Mr. Horace Kestel).
4.15 p.m.—From the Studio:
Muriel Wall, contralto:
"Down Here" (Brabell).
4.20 p.m.—Kathleen Horne, soprano:
"Dreams of the Dark" (D'Harcle).
4.25 p.m.—The Oak Hall Instrumental Trio (Leader, Mr. Horace Kestel).
4.30 p.m.—From the Studio:
Jeanette Rooney, contralto:
"Quint" (Sanderson).
4.40 p.m.—Fanny Brabell, contralto:
"Daffodil Cole" (Hodgson).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Nelle Larkin, violinist.
"Silver threads amongst the gold" (Rexford).
4.52 p.m.—Muriel Wall, contralto:
"For Music Restless" (Frasa).
4.58 p.m.—Studio music.
5 p.m.—"Big Ben" Close down.
EARLY EVENING SESSION.
5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—"The Nello Man" talks to the children.

- 8.40 p.m.—Story time for the young folk.
 8.45 p.m.—From Farmer's Oak Dining Hall:
 The Oak Hall Instrumental Trio (Leader,
 Mr. Harvie Keats).
 8.45 p.m.—Wilfrid Thomas, bass:
 "Dyking Song," from "Martha" (Pitard).
 8.45 p.m.—The Oak Hall Instrumental Trio.
 8.50 p.m.—Barbara Bruce, contralto:
 "Dreaming of Home" (Besley).
 9 p.m.—"Big Ben."
 Latest racing information by the JFC
 Commissioner.
 9.10 p.m.—Dalgety's market reports (wheat,
 wheat and stock).
 9.15 p.m.—Fruit and vegetable markets.
 9.20 p.m.—Weather and shipping news.
 9.25 p.m.—"Evening News" late news service.

NIGHT SESSION.

- 9.45 p.m.—Programme announcements.
 9.45 p.m.—Cricket reminiscences, prepared by
 Mr. Frederick Harrop.
 9 p.m.—"Big Ben."
 Lionel Lawson, violinist.
 9.55 p.m.—Gwen Soba, soprano.
 9.55 p.m.—"How to Listen to," by Mr. S. H.
 Bowden.
 9.55 p.m.—Cec Morrison and his "Glooms-
 chasers."
 9.55 p.m.—Peggy Fyfe, soprano.
 9.55 p.m.—Lionel Lawson, violinist.
 9.55 p.m.—Gwen Soba, soprano.
 9.55 p.m.—"Big Ben." Late weather forecast.
 9.55 p.m.—Gladstone Bell, 'cello solo.
 9.55 p.m.—Peggy Fyfe, soprano.
 9.55 p.m.—Cec Morrison and his "Glooms-
 chasers."
 9.55 p.m.—From Her Majesty's Theatre, Pitt
 Street, Sydney:
 Act Two of "CASTLES IN THE AIR" (by
 permission of Messrs. J. C. Williamson, Ltd.)
 (last night of this performance).
 Musical Numbers:
 Overture; The Overture.
 Latvian Dance, Les Franklyn, Chorus and
 Ballet.
 Song, "Baby," Gus Stuart and Chorus.
 Song, "My Latvia," Roy Russell and Full
 Chorus.
 Song, "Land of Romance," Rowena Ronald.
 Duet, "You never can tell," Gus Stuart and
 Phoe Allan.
 Duet, "What a wonderful day," Rowena
 Ronald and Roy Russell.
 The Latvian Chant, Full Chorus.
 Dance, Phoe Allan.
 Music, Principals and Ensemble.
 Scene: Courtyard of a Latvian Castle.
 10.30 p.m.—From the Studio:
 Cec Morrison and his "Gloomschasers."
 10.35 p.m.—Shirley Cooke, soprano.
 10.40 p.m.—Cec Morrison and his "Glooms-
 chasers": Popular dance numbers.
 10.45 p.m.—Shirley Cooke, soprano.
 10.50 p.m.—Late news and announcements.
 11 p.m.—"Big Ben."
 Cec Morrison and his "Gloomschasers" in
 popular numbers until 11.30 p.m.
 11.30 p.m.—National Anthem.
 Close down.

3LO, MELBOURNE.

Friday

MIDDAY SESSION.

- 12 noon.—Melbourne Observatory Time Signal.
 Metal Prices Received by the Australian
 Mines and Metals Association from the Lon-
 don Stock Exchange (this day); Dealer's
 and the Australian Press Association Cables;
 British Official Wireless News from Stuzky;
 "Argus" News Service.
 12.10 p.m.—HOYT'S GARDINER REGENT
 ORCHESTRA:
 "Schubert's Songs."
 12.15 p.m.—ANNA BURKE, Soprano, in more
 charming Irish Melodies.
 "Thanganagh" (Joany Laube).
 "Aveurneh" (Willon King).
 12.20 p.m.—Stock Exchange Information.
 12.25 p.m.—HOYT'S GARDINER REGENT
 ORCHESTRA:
 "Songs of India" (Rimsky-Korsakoff).

Read what the Radio Dealer said

We recently asked a prominent city radio dealer just what he thought of Ever-Ready Batteries, and below we print his eulogistic opinion:—

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- 11.30 p.m.—**CY PEIR**, the Ukulele Troubadour:
"Hello Swammy" (Cedar, Betty).
"O What a Pal Was Whooals" (Kahn, Burke).
- 11.35 p.m.—**HOYT'S GARDINER REGENT ORCHESTRA**,
Waltz, "The Dollar Princess" (Fall).
1.0 p.m.—Melbourne Observatory Time Signal, "That sum of money Fortune tossed into your lap—have you given thanks to her? Do something for the children—the Hospital—An Orphanage or the Kindergarten. He who gives quickly gives twice."
- 1.10 p.m.—Meteorological Information: Weather Forecast and Rainfall for Victoria, Tasmania, South Australia, and New South Wales; Ocean Forecasts; River Reports.
- 1.15 p.m.—**SYD. FAYNE**, the Singing Comedian:
"My Gings"
Selected.
- 1.15 p.m.—**HOYT'S GARDINER REGENT ORCHESTRA**,
"Frohne" (Hochmannoff).
- 1.22 p.m.—**MAGGIE FOSTER**, Violin:
"Broken Melody" (Van Biere).
- 1.29 p.m.—**ANNA BURKE**, Soprano:
Irish Melodias.
"Beautiful Eileen" (Novel).
"Mulligan" (J. Mannix).
- 1.36 p.m.—**HOYT'S GARDINER REGENT ORCHESTRA**,
Selection, "Links at Lammernoor" (Dons-ville).
- 1.45 p.m.—**CAPTAIN DONALD MACLEAN**:
"Pirates and More Pirates."
- 1.55 p.m.—**MR. H. WEBB**, of the Tasmanian Tourist Bureau, Melbourne, will give a chat about:
"Tasmania."
- 2.00 p.m.—During the afternoon, descriptions will be given by Mr. A.H. Dunlop, of the Tennis matches—French team against Australasia—at the Rooping Courts, Melbourne.
- 2.21 p.m.—Close Down.
- AFTERNOON SESSION.**
- 2.0 p.m.—Melbourne Observatory Time Signal, **HALE-AN-HOURE SING-SONG** from the children at **TOORAK STATE SCHOOL**, under the direction of Mr. Alfred B. Lane.
- 2.10 p.m.—**MRS. FRANCES FRASER**:
English Strides, St. Paul's Cathedral.
- 2.42 p.m.—**STUDIO QUARTETTE**:
"Sixty Melodias" (Friml).
- 2.57 p.m.—**SYD. FAYNE**, the Singing Comedian:
"Mavy Anna"
Selected.
- 3.0 p.m.—**STATION TRIO**:
"Aise Saxato"
- 3.10 p.m.—**LILLIAN M. PATON**, Contralto:
"I Wonder if Love is a Dream."
- 3.17 p.m.—**DOROTHY ROXBURGE**: violin:
"Chattering."
"Sweet Meeting" (Fisher Mainz).
- 3.25 p.m.—**LILLIAN M. PATON**, Contralto:
"Good Morning, Brother Sunshine."
"I Passed by Your Window."
- 3.32 p.m.—**MRS. M. CALLAWAY MAROOD**:
The Study and Use of Color—Red.
- 3.41 p.m.—"General" News Service; Stock Exchange Information.
- 3.50 p.m.—**MR. A. E. WILLIAMS**, of the Government Tourist Bureau, Melbourne, will speak on—"Bushman Camps and the Upper Reaches of the Snowy River."
During the afternoon, descriptions will be given by Mr. A.H. Dunlop, of the Tennis matches—French team against Australasia—at the Rooping tennis courts, Melbourne.
- 3.55 p.m.—Close Down.
- EVENING SESSION.**
- 5.30 p.m.—Answers to Letters and Bishops' Greetings by "**BILLY BUNNY**"
- 6.0 p.m.—**STUDIO QUARTETTE**,
"Dance Ecstasies" (Smith).
- 6.7 p.m.—**CAPTAIN DONALD MACLEAN**:
"Pirates and More Pirates."
- 6.25 p.m.—**STUDIO QUARTETTE**:
"Hans" (Maurice).
"Spanish Gypsy Dance" (Mowery).
- 6.30 p.m.—"**BILLY BUNNY**."
"More About the Treasure Seekers."

- 6.40 p.m.—Official Report of Newmarket Stock Sale by the Associated Stock and Station Agents, Bourke Street, Melbourne. Number of Sheep and Cattle drawn for week's sales.
- 6.45 p.m.—"Harold" News Service; Weather Synopsis; Shipping Movements.
- 6.52 p.m.—Stock Exchange Information.
- 6.57 p.m.—Fish Market Reports, by J. R. Barrett, Ltd.; Right Prices.
- 6.59 p.m.—River Reports.
- 7.2 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd.; Poultry, Cattle, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions; Market Reports of Fruit by the Victorian Fruitgrowers' Association; Retail prices; Wholesale prices of Fruit by the Wholesale Fruit Merchants' Association; Citrus Fruits.

NIGHT SESSION.

- 7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE, MR. D. ADAM, Vegetable Pathologist, will speak on:
"Tomato Diseases."
- 7.30 p.m.—**COLLINGWOOD CITIZENS' BAND**:
Waltz, "The Maid of the Mountains."
Novelty, "The Ragtime Bass Layer."
- 7.40 p.m.—**MR. H. W. LOVE**:
"Techniques."
Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any advice that you may require.
- 7.45 p.m.—Songs by the Winners of the Second Prize in each three grades of the S.L.O. Melbourne Child Radio Song Competition.
- 8.0 p.m.—**COLLINGWOOD CITIZENS' BAND**:
Overture, "Semiramis."
March, "The National Emblem."
- 8.15 p.m.—**CY PEIR**, the Ukulele Troubadour:
"The Guy Who Guards the Harem" (Berlin).
"Lonesome Boy's Letter Back Home" (Friend).
8.17 p.m.—**MAGGIE FOSTER**, Violin:
"Romance d'Automne" (Adele Gerardi).
"Kusanika" (Wieniewski).
- 8.25 p.m.—**COLLINGWOOD CITIZENS' BAND**:
Intermission, "White Lilacs."
8.30 p.m.—**ANNA DURKE**, Soprano, in More Sweet Melodias from Ould Ireland.
"I Know My Laver" (Irish Folk Songs).
"I Now Where I'm Going" (Irish Folk Songs).
- 8.40 p.m.—**AGNES FORTUNE**, Piano:
"Minuet in E Flat," by request (Beethoven).
- 8.45 p.m.—**COLLINGWOOD CITIZENS' BAND**:
March, "Heros of the Flag."
Overture, "Victorian Cross."
- 8.56 p.m.—Announcement:
The Royal Automobile Club of Victoria's SAFETY MESSAGE for today is for CHILDREN:
"Be sure to use your eyes and ears, and think a little, too, and you will catch an accident before it catches you."
- 9.10 p.m.—**CAPTAIN DONALD MACLEAN**:
"Pirates and More Pirates."
- 9.20 p.m.—**COLLINGWOOD CITIZENS' BAND**:
"Prelude and Mazurka from Copella."
- 9.30 p.m.—**FRENCH BROS.**, Banjoists:
"Frogstries."
- 9.37 p.m.—**T. E. WEIDBURN**, Baritone:
"The Old Rustic Bridge by the Mill" (Skelly).
"The Rocky Road to Dublin" (Young).
- 9.44 p.m.—**MAGGIE FOSTER**, Violin:
"Because I Love You" (Berlin).
"My Ain Pail" (Berlin).
- 9.52 p.m.—"**CARDIGAN**" (Mr. H. A. Wolfe, sporting editor of the "Age" and "Australasian"), will speak on to-morrow's races.
- 10.0 p.m.—**COLLINGWOOD CITIZENS' BAND**:
March, "Bandel Awake."
- 10.5 p.m.—**CY PEIR**, the Ukulele Troubadour:
"So Blue" (de N. Brown).
"A Cup of Coffee, a Sandwich, and You" (Rose).
- 10.12 p.m.—"Argus" News Service; Meteorological Information; British Official Wireless News; Island Steamer Movements.

- 10.13 p.m.—ANNA BURKE, Soprano:
"In an Old-fashioned Town" (Square).
"Home O'Mine" (McKenzie-Murdoch).
10.25 p.m.—French Era. Banquets:
"Plantation Air."
"O Sole Mio."
10.32 p.m.—T. E. WHIDBURN, Tenor:
"The Good Ship Sunshine" (Reed).
"Bonnie Jean" (Bryan).
10.40 p.m.—Road Notes: Island Steamer
Movements.
10.45 p.m.—JOE ARONSON AND HIS SYN-
COPATING SYMPHONISTS:
"I Wonder Who's With You" (Blum).
"This is June" (Leonard).
"What Does It Matter" (Beelin).
"The Prisoner's Bride" (Mathias).
"Everything is Made for Love" (Johnson).
11.0 p.m.—OUR GREAT THOUGHT
"Is not anger a cursed vice? Yes, certes,
Alas! It taketh away from man his wit
and reason, and all his diabolical life
spiritual, that should keep his soul."
—Chaucer.
11.1 p.m.—JOE ARONSON AND HIS SYN-
COPATING SYMPHONISTS.
11.40 p.m.—GOD SAVE THE KING.

Saturday, Dec. 10

2FC, SYDNEY.

EARLY EVENING SESSION.

- 5.48 p.m.—The Chimes of Big Ben.
5.45 p.m.—The "Hello Man" talks to the chil-
dren.
6.30 p.m.—Story time for the young folk.
6.40 p.m.—Studio music.
7 p.m.—"Big Ben." Weather intelligence.
7.2 p.m.—Late sporting news.
7.15 p.m.—"Evening News" late news service.
7.25 p.m.—Studio music.

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
7.45 p.m.—Win and Windie, English enter-
tainers.
7.54 p.m.—Studio item.
8 p.m.—"Big Ben." Announcer's foreward.
8.2 p.m.—From the Sydney Town Hall—broad-
cast for the first time—a complete perfor-
mance of Handel's Immortal Oratorio,
"THE MESSIAH."
Rendered by the Welsh Choral Society, with
augmented Choir of 500 voices, conducted by
E. H. Jones.
9.15 p.m.—Interval and late weather forecast
from the Studio.
Win and Windie, English entertainers.
9.20 p.m.—From the Sydney Town Hall.
Concluding item of the performance of
Handel's immortal oratorio, "The Messiah,"
rendered by the Welsh Choral Society, with
augmented Choir of 500 voices. Conductor,
E. H. Jones.

- 10.30 p.m.—From the Studio:
Latest weather forecast.
10.45 p.m.—From the Ambassadors:
The Ambassadors Orchestra, conducted by
Mr. Al Hancock.
10.57 p.m.—Late news and announcements.
11 p.m.—"Big Ben."
The Ambassadors Orchestra in dance items
until 11.45 p.m.
Note: Intervals at the Ambassadors will be
filled by musical items from the Studio.
11.45 p.m.—National Anthem.
Close down.

3LO, MELBOURNE.

Saturday.

MORNING SESSION.

- 11 a.m.—JOHNSTON'S STUDIO BOYS:
Selection, "The Women of the Guard."
11.10 a.m.—C. Y. PERE, The Ukulele Trouba-
dour.
"It's Too Late Now to Be Sorry" (Verges-
Therrien).
"Hello Tucky" (Myers-Hanley).
11.37 a.m.—JOHNSTON'S STUDIO BOYS:
Glee, "Dust" (Forest Walker).
Soloists, W. Honey, L. Barrett,
Fux Trut, "A Lane in Spain."

Baldwin Speakers

Volume and Tone.



Symphony

£3/3-

Concert

£5/5-



Cabinet Type, £4/15/-

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ASTOR FIVES.

Astor 5, Table, £26	Complete	£39-5-6
Astor 5, Console, £35	"	£48-5-6
Astor 5, All Electric Controlled, £50	"	£56-5-6
Porta Self Contained	"	£37-10-0



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22½ Volt	-	-	-	13/6
1½ Volt	-	-	-	3/-
4½ Volt "C"	-	-	-	4/-

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John Arnold, P.O. Box 871,
Degraeve Buildings, Degraeve
Street, Melbourne.

- 11.37 a.m.—SYD. FANE, The Ringing Conductor.
"Freakie."
Selected.
- 11.40 a.m.—JOHNSTON'S STUDIO BOYS:
"Waltz for a Fair."
- 11.45 a.m.—ANNA BURKE, Soprano:
"Ellen of Killarney."
"The Girl with a Bit of a Brogue"
(P. Monckton).
- 12.05 a.m.—JOHNSTON'S STUDIO BOYS:
"Adventure."
"Solenne."
- 12 noon.—Melbourne Observatory Time Signal.
"In the Time for remember
Safety First. This is a free country, but
nobody has a right to be careless, com-
pensation can never take the place of a
perfectly good limb."
- 12.11 p.m.—Metal prices received by the Aus-
tralian Mines and Metals Association from the
London Stock Exchange this day.
British official wireless notes from Rugby,
Boston and The Australian Press Association
cables. "Argus" news service.
- 12.20 p.m.—STUDIO QUARTETTE:
Selection, "Madame Pompadour."
- 12.30 p.m.—MAJOR H. C. HOUSE, Veteran:
"There's an Old Fashioned College."
"Where the River Shannon Flows."
- 12.37 p.m.—Stock Exchange reports.
- 12.40 p.m.—AGNES PORTUNE, Piano:
"A Basket of Roses."
- 12.47 p.m.—JOHNSTON'S STUDIO BOYS:
Selection, "Sonnet of Beauty."
"Waltz L'apahian."
- 12.57 p.m.—MAJOR H. C. R. HOUSE,
Veteran:
"Mother Madras."
"The Perpet Day."
- 1.4 p.m.—Meteorological information, Ship-
ping information, Weather forecast and
rainfall for Victoria, Tasmania, South Aus-
tralia, and New South Wales. Ocean fore-
cast. River reports.
- 1.11 p.m.—STUDIO QUARTET. Selection:
"The Student Prince."
- 1.16 p.m.—CY PEIR, The Ukulele Troubadour.
"Room 309."
"Moonbeam Kiss Her for Me" (Dixon
Wood).
- 1.35 p.m.—MAGGIE FOSTER, Viola:
"An Old English Air."
"When Other Lips."
- 1.38 p.m.—ANNA BURKE, soprano, in more
Irish melodies:
"Bridget O'Flinn" (Robert King).
"Hills of Donegal" (J. O'Reilly).
- 1.39 p.m.—STUDIO QUARTETTE:
Selection, "The Cinema Star."
- 1.40 p.m.—JOHNSTON'S STUDIO BOYS:
Sonnets, "Bobby the Boy" (request).
March, "Bamb Souel."
Festral, "A Lane in Spain."
- 2 p.m.—Description of Cricket Match, St.
Kilda v. Collingwood, at St. Kilda, by Mr.
Rod McGregor.
- 2.10 p.m.—Close down.
- 2.15 p.m.—Description of Two-Year-Old Handi-
cap, five furlongs, MENTONE RACES, by "Musket,"
of "The Sporting Globe."
- 2.45 p.m.—Description of Open Handicap, six
furlongs, MENTONE RACES, by "Musket,"
of "The Sporting Globe."
- 2.59 p.m.—Close down.
- During the Afternoon descriptions will be
given by Mr. Alf. Dunlop of the Tennis
Matches—French team against Australasia—
at the Keopung Tennis Courts, Melbourne.
- 3 p.m.—AFTERNOON SESSION.
- 3 p.m.—Melbourne Observatory time signal.
- 3.1 p.m.—Transmission from Auditorium, Col-
lins Street, Melbourne:
- 3.10 Melbourne's Children's Xmas Party.
- 3.10 p.m.—Progress report of Victorian tests
for Australian and New Zealand track and
field games championships at Amateur Sports
Ground.
- 3.15 p.m.—Description of Brush Stenochase,
2 miles 18 chains, MENTONE RACES, by
"Musket," of "The Sporting Globe."
- 3.25 p.m.—Description of Cricket Match, St.
Kilda v. Collingwood, at St. Kilda, by Mr.
Rod McGregor.
- 3.30 p.m.—Transmission from Auditorium—
3.10 Melbourne's Children's Xmas Party.
- 3.45 p.m.—Description of Mentone Handicap,
1 mile, MENTONE RACES, by "Musket,"
of "The Sporting Globe."
- 3.50 p.m.—Transmission from Auditorium—
3.10 Melbourne's Children's Xmas Party.

- 4.5 p.m.—Description of Cricket Match, St.
Kilda v. Collingwood, at St. Kilda, by Mr.
Rod McGregor.
- 4.15 p.m.—Description of Trial Plate, six
furlongs, MENTONE RACES, by "Musket,"
of "The Sporting Globe."
- 4.20 p.m.—Progress report of Victorian tests
for Australian and New Zealand track and
field games championships, at Amateur
Sports Ground.
- 4.25 p.m.—Transmission from Auditorium—
3.10 Melbourne's Children's Xmas Party.
- 4.45 p.m.—Description of Farewell Handicap,
six furlongs, MENTONE RACES, by "Musket,"
of "The Sporting Globe."
- 4.50 p.m.—Progress report of Victorian tests
for Australian and New Zealand track and
field games championships at Amateur
Sports Ground.
- 5 p.m.—Description of Cricket Match, St.
Kilda v. Collingwood, at St. Kilda, by Mr.
Rod McGregor.
- 5.10 p.m.—Close down.

During the afternoon descriptions will be
given of the champion tennis matches.
French team against Australasia, from
the Keopung courts, Melbourne, by Mr.
Alf. Dunlop.

During the afternoon results will also be
given at intervals of the Hamilton races.

EVENING SESSION.

- 5.30 p.m.—Sporting results.
- 6.00 p.m.—Answers to Letters and Birthday
Greetings by "LITTLE MISS KOOKA-
BURRA."
- 6 p.m.—STUDIO QUARTETTE:
"Prelude" (Jarnfield).
- 6.7 p.m.—"LITTLE MISS KOOKABURRA":
A Story for the little ones.
- 6.25 p.m.—STUDIO QUARTETTE:
"The Mill-Rief String Quartette."
- 6.30 p.m.—"LITTLE MISS KOOKABURRA":
More about the Plucky Patrol.
- 6.40 p.m.—Sporting results.
- 6.45 p.m.—"Herald" news service. Weather
synopsis. Shipping movements.
- 6.52 p.m.—Stock Exchange information.
- 6.57 p.m.—River reports.
- 7 p.m.—Market reports by the Victorian Pro-
ducers' Co-operative Co., Ltd., poultry,
grain, hay, straw, jute, dairy produce,
potatoes and onions. Market reports of
Fruit by the Victorian Fruitgrowers' Asso-
ciation—retail prices. Wholesale prices of
Fruit by the Wholesale Fruit Merchants'
Association. Citrus Fruits.

NIGHT SESSION.

- 7.15 p.m.—Under the Auspices of the Royal
Life Saving Society, Victoria Head Centre,
Mr. A. F. NEWBY, will speak on:
"Resuscitation of the Apparently
"Drowned."
- 7.30 p.m.—Mr. F. CHAPMAN, National
Museum, will speak on:
"Elephant Fishes."
- 7.45 p.m.—Dr. J. A. LEACH will speak on:
"Freshwater Ducks."
- 8 p.m.—"An Angel's Paradise."
The Royal Automobile Club of Victoria's
SAFETY MESSAGE for Today is:
"Encourage all others and particularly
children, to avoid incurring unnecessary
risks to themselves or to others."
- 8.4 p.m.—Studio Presentation of the Opera:
"MA MIE ROSETTE."
A Romantic Opera in Two Acts.
From the French of MM. Prevel and Libart.
The English Version written by George
Dance.
The Music by PAUL LACOME and
IVAN CARVILLE.
Characters in the order of their Speaking:
Moustain (Rosette's Father) ALFRED ANDREW
Clochette (a Village Girl) IVY CARVILLE
Martha (Moustain's Sister) MERLE GRIFPIN
Nichette (a Village Girl) LUCY WASHINGTON
Vincent (Betrotted to Rosette) T. JAMES LLOYD
Rosette FLORENCE BLITZ
Baillon (Valet to the King) ALAN BELL
Henri (King of Navarre), JOHN DONOVAN
Coronade (a Lady of King Henri's Court) JEAN KELLY

Colonel Cognac (an Old Soldier) MAURICE DUDLEY
 Segur (A Young Nobleman) IVY CARLYLE
 Therese (A Lady of the Court) LUCY WASHINGTON
 Messengers, Cleaners, Soldiers, Pages, Lords
 and Ladies.
 The Opera produced for broadcasting purposes by ALFRED ANDREW. Augmented Orchestra under the Direction of REGINALD BRADLEY.
 With the exception of two parts, namely: Moustata—played by Aired Andrew, and Colonel Cognac, played by Maurice Dudley. The Opera will be performed in its entirety by the Pupils of MADAME ETHEL ASHTON.

SYNOPSIS OF SCENES.

ACT I.

A Picturesque Farquard near the Chateau de Nerac—the latter being seen on the hill in the distance. Moustata's Cottage in the foreground.

ACT II.

Scene I.

The Reception Hall at the Chateau de Nerac.

Scene II.

Same as Act I.

MUSICAL NUMBERS.

ACT I.

Chorus of Messengers: "Work with Spirit."
 Duet (Rosette and Vincent): "To-morrow Morning."

Romance (Rosette): "He was a Curly-headed Boy."

Intermezzo

Chorus: "Long Live the King," with Song (Henri): "I am a Man of Fashion."
 Duet (Rosette and Henri): "Noble Slave."
 Duet (Martha and Bouillon): "Twiddle-de-loes."

Song (Henri): "Ma Mie Rosette."
 Duet (Rosette and Vincent): "Why So Sad?"
 Ballad (Vincent): "Think Not."
 Finale—(Rosette, Martha, Corisandre, Vincent, Henri, Bouillon, and Chorus): "When I, My Love, am Far Away."

Act II.

Chorus (with solos for Therese and Segur): "Lucky the Maiden."

Song (Rosette): "I Was Dreaming."

Ballad (Henri): "Why Throbs This Longing Heart."

Duet (Martha and Bouillon): "There's an Instance, Frinstance."

Chorus:

"See La Belle Rosette."
 Duet (Henri and Rosette): "Prithee, Pretty Maiden."

Vocal Solo (Rosette, Corisandre and Henri):

Recit. (Henri) and Chorus: "Good-night."

Duet (Rosette and Henri): "Hushed is the Busy World."

Chorus:

"What is this Clatter?"

Finale:

"Rosette, Ma mie Rosette."

16.15 p.m.—Miss MAGGIE FOSTER, violin.

"Chorus" (Friml).

"At Old Scotch Air."

16.30 p.m.—The Wedding March by special request of listeners at Canterbury.

16.35 p.m.—CY. PEIR, the Uthaleis Troubadour:

"My Bundle of Love" (Price-Silver).

"If You Hadn't Gone Away" (Brown-Rox-Henderson).

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

"Moonlit Waters" (Friend).

"Everything's Fresh" (Squire).

16.45 p.m.—Late sporting results. Island steamer movements.

16.52 p.m.—MR. NORMAN Mc-CANCE will give a resume of to-night's Stadium event.

11 p.m.—GIVE GREAT THOUGHT:

"Never does the human soul appear so strong as when it forgives revenge and dares to forgive an injury."—Chapin.

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

11.40 p.m.—GOD SAVE THE KING.

H.T. Power at 1/3 per Volt

THOSE who have used all types of Accumulators, including Oldham, are agreed upon one point—that there can be no substitute for Oldham. And there is little doubt that the

Special Activation Process

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Now with the announcement of these new and greatly reduced prices, Oldham Accumulators must be even more popular than before.

Oldham H.T. Accumulator Prices

20 Volt	25/-	40 Volt	50/-
60 Volt	75/-	80 Volt	100/-
100 Volt	125/-	120 Volt	150/-

These prices include carrying handles and lids, but not trays, which are obtainable at 6/6 each, extra.

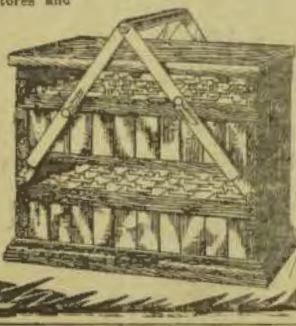
All Oldham H.T. Batteries can be supplied to you charged and filled, ready for immediate use.

Obtainable at All Radio Stores and Electrical Houses.

For further information write for Pamphlet "W"

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All Readers' Queries Answered Here.

S.B.P. (THANGGOO, Q.)—Q: I am using a Diamond shaped aerial, 170 feet each side and 450 feet all told, would this take more drain out of the batteries than a single wire aerial, say, 100 feet long?

A: No, The aerial does not drain the batteries in any way, but I think you would get splendid results, even better results than at the present, if you were to use 100 feet of your present aerial only.

G.H.H. (STRATHFIELD, Q.)—Q: Would a potentiometer added to the crystal set described in September issue of "Radio," make the reception louder?

A: No, A potentiometer with a crystal set is usually associated with a Catharometer detector, and as this class of detector was not specified, a potentiometer would therefore serve no useful purpose. The ordinary electrolytic crystal detector is quite suited to this receiver.

A.E.B. (CROMFORD, Q.)—Q: I have built the extraordinary one valve receiver, and am extremely pleased with this performance, but although I am an I.C.U. Brisbane quite easily, the reception is very blurred and mucky. Can you suggest some means of overcoming this?

A: You don't talk as if other inter-state visitors are mucky. Still, this is not such a serious matter. Substitute a Bradlystat, Esmotrol or Pilvostat for the rheostat, and the smooth action will thus be gained and settle your troubles.

J.R.C. (EAST LINDMORE, Q.)—Q: I have a three valve set, which has a whistle when the transformer is turned on. Can this be remedied?

A: Yes. Reverse the connections on the primary of one of the transformers.

J.H.F. (BRISBANE, Q.)—Q: I am at present using the Barknes One Valve set, and am pleased with the results. I would like to dispense with the crystal, and put a valve in its place. How could this be done?

A: See "Wireless Weekly," 2/4/27.

R.P.R. (WATERS, Q.)—Q: A letter in last week's "Wireless Weekly" states that on the "Extraordinary One Valve" a great number of stations were received. Do you think that this is possible? I have built this receiver also, and can only get 2FC, 2BL, and 2BG, and the two latter only faintly, and with a good deal of background from 2FC. Would you advise in this matter? I would be very much obliged, if you would answer this in this week's "Wireless Weekly."

A: Yes, it is very possible, and has actually happened over and over again, with many hundreds of these receivers built. Just the other night, I heard Melbourne, Brisbane and Adelaide on one of these little receivers, which is built by a lad 16 years old. Perhaps one of your components is not too good, or anything may have happened. Why not call in a more experienced frizander and get his assistance? I think this would be the best plan to follow, as I cannot diagnose a complaint such as this, without seeing the receiver.

C.M.P. (TIGHE'S HILL, Q.)—Q: Your valuable assistance I hope will come to my rescue. I have a 5 valve set, and in the middle side there is a transformer, not the usual sprig kind, but a circular one 1.8 inch in diameter and 3/16 inch long. Federal brand marked 775 and 400 (and where) another one up to 275 marks, and if it would be successful, I should like to get down to about 100 or 150 metres if possible without purchasing a low wave set.

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

Readers sending in queries are asked to understand that it is necessary to sign their letters and to give their addresses. Only the initials and the town will be published. In future queries arriving at this office signed, say, "Constant Reader, Tambulungum, will not be answered.

My set is about 4 years old and still a very good one on the ordinary wave band. It is also a coil job one coil rear aerial, terminal and other two local panels. Your advice would be very acceptable. Hoping to hear very soon, and wishing your paper every success, for it is the only magazine that I read.

A: The transformer which you speak of is a radio frequency transformer, and will be very difficult to obtain nowadays. As you mention, your set is certainly very old, but no doubt very good. Do you think it would be a wise plan to build a more modern receiver, such as a Neutrodine or a Selenator? You would not need receive far superior results in every way. It is difficult when employing radio frequency amplification, and you have two stages in your set at the present time to tune below 200 metres. An excellent receiver for wavelengths you seek will be found described in "Radio" for December. I would not advise you to add another stage of radio frequency amplification to your present receiver. Many thanks for your nice remarks.

E.C.V. (CROMWELL, Q.)—Q: I made up the B battery Eliminator as described by you in "Wireless Weekly" 25/2/27, and am very pleased with it, much better than I expected it to be. I charged an old accumulator with it, 6 cells 80 amps, would like you to let me know if I can do any damage to Eliminator or battery by doing so? Wishing you, and paper, every success.

A: I am indeed glad to hear your remarks. No harm can come to the battery, but don't do it for a long time to charge it. Be very careful with the polarity, that's all you need worry about.

M.R. (NTH BRISBANE, Q.)—Q: I enclose a circuit of a two valve short wave receiver which is known as the Schnell circuit. Would like to have your personal opinion of it. Do you think the results would be satisfactory?

A: The Schnell is certainly a very excellent circuit for short wave work, and you should get good results if you build it correctly.

WILMAE (SOUTH BRISBANE, Q.)—Q: I am living half a mile from 400, and would very much like to build an inexpensive sensitive set, capable of bringing in 400 at local speaker strength, also 2FC and 3L0, on certain times, after 400 has signal down. Would be grateful for any suggestions for suitable

sets, to meet the above requirements published through your columns?

A: Look on "Wireless Weekly" 1/7/27, and you will find the description of an excellent little receiver, known as the "Extraordinary One Valve." This is just the thing you want.

G.M. (WALGETT, Q.)—Q: Would you let me know if Nitrolyte Battery fluid, as supplied by Westcott Hazell, does all it is claimed to do, and would you recommend it to be put in a wireless battery?

A: Nitrolyte is a fluid which is suitable for renewing the life of any battery. Not only will it allow a longer period of Alkaline, but an otherwise worn-out, old battery is given a new lease of life. To use Nitrolyte in the proper manner, the battery should be charged to the maximum with the old electrolyte, then the old liquid should be emptied out. The battery should be washed out at least twice with distilled water. Now, add the Nitrolyte. Nitrolyte is recommended particularly for batteries which are usually in motion and which are subjected to a certain amount of shaking about, such as a car battery. Better results are had from this liquid, but that if the battery were used in a car, but left still for quite a while, such as a wireless battery.

D. MCL. (ARDFIELD, Q.)—Q: Could you please give me the circuit of the Helios Six, or could you tell me where I could obtain same?

A: See July "Radio."

M.H. (MINNAMURRA, Q.)—Q: I intended to make up the Helios Six Receiver as described in "Wireless Weekly" on May 20th, 1927, but in this week's wireless column, of the "Six" in answer to a reader, they state that it has not proved successful. I would like your valued opinion on the Helios Six, whether it has cost the best of time. On the Extraordinary One Valve, I got good results, but my present set, a Two-valve Barknes Reflex, does not come up to expectations, although I often read good reports in "Wireless Weekly" re same.

A: For the benefit of other readers we publish here with an extract from the cutting of the newspaper mentioned. The use of regeneration on a Five Valve set is difficult, as the set becomes highly unstable. The Helios Six was an attempt in this direction, but so far it has not proved itself altogether successful. Regeneration can be added to a Neutrodine, but if it is applied too heavily, the set will become more or less uncontrollable. All that I can say is, that the Helios Six was designed by some of the world's greatest and informed radio engineers. It is a product of the Electro Laboratories of England, and has associated with it the names of such eminent men as Mr. J. H. Ravens, Esq. (London), A. C. L. DIX, A. M. I.E.E., Mr. John Scott-Duggan, F. Inst. P., A. M. I.E.E., and Mr. Percy W. Harris, M.I.E.E.—men who have

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Queries—continued.

a reputation to live up to, and who have produced some of the most wonderful receivers the world has seen. It is not likely that they would attempt to publish the details of such a receiver as the Soudyne if it were not a success. Further than this, in almost every country in the world, the Soudyne has proved highly successful. In fact, many of the set manufacturers even in this country are making the Soudyne their standard five valve receiver. When I described this receiver in the May issue of "Wireless Weekly," I simply followed out the specifications laid down in "Modern Wireless," of September, 1925. What I wrote about it, I still maintain is correct, and the particular receiver which I built is owned by a friend of mine in Rochdale, who is prepared to testify to the wonderful properties of this excellent receiver. Further than this, I have come in contact with many Soudynes, the most of which were acclaimed as being unsatisfactory, but the application of that scarce commodity, common sense, rectified matters in most instances. The main trouble met with in the Soudyne lies in the use of the components specified, and in the balancing of each circuit. It is granted that many people can't do this, but the old axiom of try, try again, is always of interest. It stands to reason that some people will make failures, even with a very simple crystal set, and you others find no trouble in getting good results as soon as a new receiver is hooked on to the aerial. From this you will gather that the Soudyne has proved itself altogether successful, so go ahead and build it. Follow out the directions given, and you will be one of the best boosters of a good set. I will pardon you if you shout He strains from the knowledge.

MR. PRITCHETT FOR LONDON.

A happy little gathering of prominent Sydney radio and electrical men took place at Usher's Hotel, on November 9, on the occasion of a "send off" dinner to Mr. A. Beal Pritchett, managing director of A. Beal Pritchett (Aust.), Ltd.

Mr. Pritchett sailed for London per s.s. "Otranto" on the 12th. His chief mission is to confer with his principals—The Mullard Wireless Service Co., Ltd., London, and Ferranti, Limited, Hollinwood Lancashire, in regard to developments of their various products and policies. The Mullard P.M. Valves have earned their "place in the sun" in Australian radio circles in a comparatively short space of time. It is understood that the activities of the Mullard Laboratories tend in the direction of the production of valves of even greater efficiency than at present with even less consumption of A and B current—features for which the Mullard P.M. Series of Valves are already justly famous.

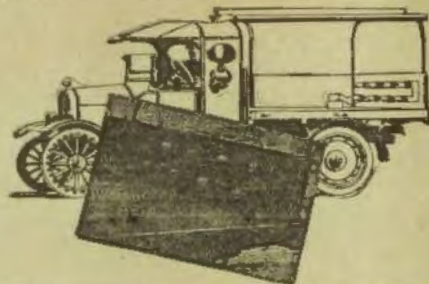
It is also whispered that the Mullard factory may shortly develop on lines apart from valves—the Mullard

Grid leaks and wire wound resistances for resistance coupling are already coming forward and it is hinted that more remains behind.

The activities of Ferranti, Limited, on radio are already increased by the production of Output Transformers in addition to their famous audio frequency instruments, and we are led to expect important new components with novel departures from general practice in the near future. Anything coupled with the name "Ferranti" arrests interest.

Mr. Pritchett is firm in his belief that nothing but "the best" should be good enough for the Australian listener, and he is convinced that that "best" can be made in Great Britain. The policy of his firm is to enable themselves to give adequate service to the public by marketing only those proprietary articles of which there can be no doubt in regard to quality, efficiency and value for money.

During the absence of Mr. Pritchett abroad, the business of A. Beal Pritchett (Aust.), Ltd., will be in charge of Mr. A. B. Sewell, a director of the company. Mr. Sewell is already well known in radio and electrical circles.



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