

# WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 10

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

NUMBER 5

KOA



*U.S. Programme on May 29.*

Friday, May 27, 1927.

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# WIRELESS WEEKLY

VOL. 18, No. 8.

FRIDAY, 27th MAY, 1927.

## Radio in Schools

**T**HERE are no short cuts to a liberal education, and there is some risk of broadcasting being taken as a substitute for the toil and trouble of accepted methods. It has been said that reading is sometimes an ingenious device for avoiding thought, and so it may be thought that oral impressions in quick succession almost without conscious effort may render both reading and thinking unnecessary.

Broadcast knowledge can, however, of itself, go little more than skin deep, but when it is used to supplement and strengthen the present methods of teaching, as advocated by 3LO during the last few months, there is a considerable field for it to cover.

Imagination and memory are but one thing, and the impressive force of broadcasting does without doubt stimulate the imagination and lay hold of the memory. As a forming agency of national character it may conceivably be of "noxious efficacy," but it may also be of high efficiency. Combined with the proper agencies of personal influence, of book learning, and of practical instruction, it will certainly enlarge the whole realm of primary teaching, and, perchance, give it a finer and more lasting quality.

Accepting that the aims of primary education are principally the development of character, intelligence and the physical powers, the imparting of knowledge and the development of aestheticism, to consider the extent to which broadcasting has claims as an educational method. If a claim is established then the treatment of subjects, the selection of

personnel, co-operation between schools and the broadcasting companies, and from their conclusions to formulate recommendations as to the manner in which such practical suggestions as may issue may be best effected.

Until television enters into broadcasting, the limitations of the medium almost entirely in its application to one group of subjects, reduce it for another, but fail to affect it at all materially for a third.

Further, that in the border line subjects the loss of the visual components of a presentation can to some extent be compensated by insisting to a larger degree than is normally necessary, or even by exaggerating, the acoustic elements of that presentation. It also appears that in this same group of subjects, wherever evidence is not directly available, either contemporaneously or locally, oral methods are necessary; but because we have not succeeded in establishing how far listening to an authority presents advantages over reading in books, we are unable to come to any conclusion as to how far broadcasting can be of advantage.

It emerges also, that of all of them drama, modified and amplified in certain directions, is the most auspicious field, for although in the completeness of presentation music will have advantages over drama, the latter can be so extensively employed in teaching other subjects that it will ultimately, we believe, become the very basis of broadcast teaching, if such teaching come to be at all generally adopted.



## Between You And Me And The Microphone

Conducted by Jack Plugge



DURING 1926 more money was spent on radio accessories than on complete receivers, it was revealed in a recent survey compiled by the National Electrical Manufacturers' Association of U.S.A. Accessories lead by a margin of 20 per cent. of the total sales. The report shows 40 per cent. of the total sales were complete sets, while 60 per cent. of the sales were accessories.

ATTENDING THE FIRST radio conference to be held since 1912, many of the world's foremost radio law and technical experts will convene in Washington next October, to discuss the art from an international standpoint. It had been planned to originally hold the meeting in the spring. The time required, however, for the preparation of the "Book of Proposals," a compilation of suggestions offered by interested foreign powers, and the distance some of the delegates would have to travel, raised the postponement until this fall.

A MOVE IS AFOOT for the establishment of a small broadcasting station at Cootamundra. A definite announcement is awaited, as such a station would enable residents for 15 or 20 miles around to purchase for £1 or 30/- crystal sets which would tune in the local station. An instance of the value of such a station is shown in the case of Bathurst, where listeners enjoy not only the Sydney and Melbourne programmes, but also those of their local station, 2MK. The last of the present writer heard of 2MK was a week ago, when that station was killed to broadcast the Royal Syncopated Band, a live jazz combination, which could supply the music for a private dance in the home of everyone possessing a radio set and loud speaker.

### HOME.

A cozy fire, a comfy chair—  
Pussy cat beneath the stair,

An open door and kindly cheer,  
Welcome from the winter's drear.

Sunshine gilds a dying day,  
Sprinkling starlight on the way.

An open hearth, glowing fire,  
Sleepy heads will soon retire.

But not for me for quite a while  
I'll sit up and spin the dial.

Let north winds howl, screech  
and blow,  
I'll tune in old 3LO.

### FAMOUS QUOTATIONS.

A man may dial and dial and dial—  
and be a villain still.

### THE INSTINCTS OF A SURGEON.

"Dad," said the tactful youth, "I want to be a Radio expert when I grow up."

"Why a Radio expert, son?" asked the busy father.

"So I can put back together your new Radio again."

STUDY OF THE GERMAN wireless broadcasting system reveals a remarkable use of its facilities for educational purposes. Special stress is laid on the teaching of foreign languages, and high commendation has been given by educational authorities of various nations to the methods pursued in imparting this form of instruction.

IN A RECENT LETTER to the Radio Broadcast Bureau, the headmaster of Nymboida school stated that the school bell is always rung by broadcast time as received on the school's radio set, and all the townspeople regulate their clocks by the school bell. At Binnaway (so Mr. Champion, the headmaster, states), the residents take school time, which is received by radio in preference to railway or post office time. Jewellers and watchmakers all over the State naturally use radio time, picking it up exactly from the broadcasting stations.

"WOULD YOU kindly make a point of always putting the G.P.O. clock on the air at 9 o'clock on Sunday night," writes a Paddington resident to 2BL. "Remember, the people who set their alarms for Monday morning," he adds. 2BL replied: "We are not always able to do this owing to the fact that some musical items may

be in progress at the moment, but in that case, we always give the studio time immediately before or after the item referred to." The practice of broadcasting the G.P.O. clock every hour is now firmly established by the Australian broadcasting stations, and frequently the clock is heard on top of a musical item, the sound being toned down so as not to interfere with the music.

## Do You Know Your Radio ?

A series of questions treating radio in a new and interesting way, with their answers, will be published weekly in this section. Here are the first ten. How many can you guess without turning to the answers on page 32.

### Series 2.

1. Who invented the super-heterodyne?
2. What is the difference between "wireless" and "radio"?
3. What do the American listeners call their valves?
4. What is meant by the "ether"?
5. What is an "amateur"?
6. How many B class broadcasting stations are there in Australia?
7. What is meant by a "shielded receiver"?
8. Who is the announcer at 6WF?
9. What ship was the first to provide ship-to-shore telephone service for its passengers travelling across the Atlantic?
10. What happens when you spill the "water" out of your accumulator on the drawing room carpet?

Buy Right and You Must Buy Burgess!

## Will Educational Authorities Adopt Radio in Schools?

By Kenneth Henderson, M.A.



The Rev. Kenneth Henderson

ON January 4 and 5 at the Guildhall, London, the Incorporated Association of Roadmasters devoted their deliberations to the subject of Broadcasting in Education. It is significant that their discussions did not call in question the value of wireless, but rather the danger of using it too much. One needs to pause on the significance of this. Only quite recently English and American educationists have begun to realise the immense possibilities of the cinema and the wireless for their work. Just lately educational leaders have begun to wonder if their rather aloof and critical attitude to these enormous influences is the wisest one.

### Immense Possibilities.

Some are beginning to feel a misgiving that if the film is entirely occupied with sub-stuff and shooting, and the ethal full of jazz and such airy trifling, it may be in some degree the fault of those who satisfy themselves with condemning these faults, without taking an active interest in these inventions, great possibilities for good work. There is no doubt that millions of men, women and children are absorbing an education of sorts—good, bad, or indifferent—from the cinema and the wireless, and it is merely a policy of surrender to assume that people cannot be intelligently interested and benefited in what entertains them.

### Simplicity of Wireless.

Wireless is free from the many obstacles, such as time and great expense, that besets the cinema, and its success has been far more rapid and decisive. Either takes the place of teaching, but both add enormously to the range of interest and illustration on which the teacher can work. There are already 1500 wireless schools in London. The British Broadcasting Company's Board of Directors contains an educational representative, Dr. Rendall, late Headmaster of Winchester, and besides this there is an executive Director of Education. Special programmes on a different wave length are being experimented with.

### Duty of Educationists.

If education is to be a real preparation for life, it should be broken into by these voices from the outside world. The home work, the task of teaching children to think clearly, express themselves well, act from right

motives are mainly matters between the teacher and the child, to be worked out in the comparative privacy of the class room. But the child will be much keener about preparing himself for the world he is to live in if he can hear and see something of the way that things are being done. A description of the opening of Parliament at Canberra helped to make the history lesson real, as a film following the wool from the sheep to the waistcoat gives a sense of reality to the teaching of geography.

### B.I.O. Will Co-operate.

The problem of using wireless effectively in education consists in getting the right people to do the right thing at the right time. B.I.O. for this purpose think they could find the best people in any line of interest that the teachers wish to develop. For ways and means, they are anxious to rely as much as possible on the advice of the teachers themselves. The country teacher is often working alone for an examination on which his future depends. It is difficult for him to attack a vast pile of literature entirely without guidance. B.I.O. are prepared to broadcast guidance from the University or Training College at some suitable hour—say the one following the end of school.

A familiar conservative argument against wireless in schools is that its value and interest for children will deteriorate when the novelty wears off and long lectures through the loud speaker ill bore them thereafter. That is valid enough as far as it goes. But the educational advisers of B.I.O., being educationists, are fully aware that the value of a broadcasting programme for schools depends on the value and suitability of the matter given.

For this end the advice of school authorities has been earnestly sought. B.I.O. are quite well aware that long lectures for children are not much use. But they believe that 15 minute talks from the right people, followed by the teacher's questioning and comment, or "fixed" by essay work may be stimulating and useful in a high degree.

Is there any senior class who would not have been better for a stimulating quarter of an hour from an eminent musical scholar on Beethoven's struggles and aims, followed by a few of the simpler movements from his masterpieces? Is there any country child whose walk or ride to school could not

be made more full of interest and meaning from listening to the loving careful observations of some eminent student of nature? The familiar bird or tree or pond will hold his attention with a score of new perceptions afterwards. The boy whose only music has been the kookaburra will learn how a great organ or a fine orchestra may stir and enlighten him when its music is explained to him week by week. What child of average intelligence is not quickened to an interest in the daily anxieties, achievements and discoveries when these are presented to him in a clear and ordered fashion?

"Celebrity" is a general name applied to people who have proved that they can do things surpassingly well to the satisfaction of their fellows. What a variety of them there are! What an inspiration, for example, if a man such as Paderewski could be persuaded to talk to children on Poland! Or to take an example at random from another walk of life, would not ordinary girls in a domestic science class be rather thrilled by a talk from a famous chef. It is safe to say that there are no famous chefs without enthusiasm and ideals.

How a visiting financier, for instance, with a clear account of some of the problems of reconstruction, could give life and point to some of the discussions of a class in economics.

What could not forestry enthusiasts do in arousing a "forest conscience" in country school children?

Educationists interested in wireless are confident that this series of fresh and living illustrations brought by B.I.O. Melbourne, from the working world would bring to the task of teacher and text book, refreshment stimulus and point.



Ralph Fresse, lyric tenor, who will sing James Brash's engaging sea ballad, "Pari & Sydney," at KOA.



Iris Ruth Gilmore, who will present two Australian plays for children, the "Gumnuts" and the "Kookaburras" at KOA.



Robert H. Owen, engineer in charge of KOA's technical operations.



Freeman H. Talbot, studio director and chief announcer of KOA.



Hilda Helen Edwards, dramatic soprano, who broadcasts Australian songs in KOA's programme.



Martin P. Rice, manager of broadcasting for the General Electric Company, including WGY, KOA, and KGO.

## An Australian Programme at KOA

MAY 29 will be a feature day for KOA, the big station of the General Electric Company at Denver, Colorado, U.S.A., for on that date the station will broadcast the first all-Australian programme to be broadcast by an American station. Many thousands of listeners will tune in to KOA to hear the most novel programme that has yet been released in that country of novelties and stunts.

About three months ago, Miss Margaret Bonar, Publicity Director of KOA, expressed a yearning to put on a programme that would be Australian in character, setting and sentiment, and this yearning was expressed in a letter addressed to the Editor of "Wireless Weekly."

A consultation with Mr. Oswald Anderson, manager of 2FC, followed, with the result that a two-hour programme, comprising only items of Australian composition, was drawn up, and the draft sent across to KOA. The musical score and the photographs of well-known Australian composers and artists, comprising two huge parcels, followed,

Messrs. Paling and Company supplying 80 per cent. of the numbers forwarded.

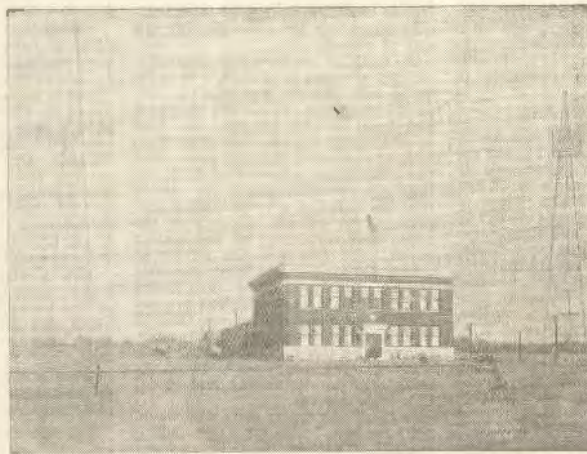
The programme included a children's play entitled "The Kookaburra," by Edith Allingham, and "The Gumnut Dance," by Bruce Raitton. Both of these are written around typical animals and incidents of Australian bush life.

"Amicus" contributed the national song, "Advance, Australia Fair," and a band selection, "Australia Hall." Other works include two songs from Omar Khayyam, by Oswald Ander-

son, "Regret" and "Love's Wish," while a waltz ballad is provided for by O'Hagan's "After the Dawn." There is a pianoforte solo by Iris de Cairns Rego, "Canzanetta," a song, "Red Rosebud," by Murray Gibbs, a musical monologue "Again," by Will Ogilvie, band march, "Canberra," by Lithgow, and the choral items, "Sing, Gaily Sing," by Treharne, and "The Six Starred Flag of Anzac," by George English. Other Australian items comprising the rest of the programme show this to be one of the most complete that has so far been drawn up.

KOA has engaged the best available talent and anticipate complete success with the programme. Extraordinary interest has been aroused in the United States, and according to Miss Bonar, over one million listeners will tune-in on May 29. By special arrangement messages of good will from Sir Henry Braddon, K.B.E. (the first Australian Commissioner to the United States), and Mr. E. M. Lawton (U.S. Consul General for Australia) will be broadcast.

In order to give Australian (Cont. page 18.)



A view of KOA, the 5000 watt broadcasting station of the General Electric Co. at Denver, Colorado, U.S.A., which will stage an all-Australian programme on May 29th in conjunction with 2FC and "Wireless Weekly."



## Says 2CM Broadcast First Concert

An interview with Mr. Oswald Anderson, manager of 2FC, which appeared in a recent issue under the heading "Who Broadcast the First Concert in N.S.W.?" has brought forth many interesting letters from readers. One of these, supporting Mr. C. D. MacLurcan's claim, is published below.

Dear Sir—In your article "Who Broadcast the First Concert in N.S.W.?" in a recent issue, you invite readers to help establish, once and for all, who broadcast the first concert in N.S.W. I will be very much amused if anyone ventures to dispute Mr. MacLurcan's claim to have broadcast the first concert in N.S.W. Mr. MacLurcan's name is a household word in connection with broadcasting, and many listeners consider that it was entirely due to his early efforts that commercial broadcasting was brought into being at the time it was.

At that time I was a keen enthusiast, and I am sure that not only were Mr. MacLurcan's concerts the first in N.S.W., but were by months, if not years, the first to be given in the whole of Australia. It matters not to me whether you call a concert one given by professionals only, for many will agree with me, I am sure, that Mr. MacLurcan's Sunday night entertainments had more entertainment value in them than the present day programmes.

As to actual dates, I still have a copy of one of Mr. MacLurcan's early programmes which appeared in the "Mistle Spark" column of the "Evening News" on August 20th, 1922. The concerts had been given regularly for some time before this, but no doubt Mr. MacLurcan could supply the exact date. This is the programme:—

### "FOR TO-MORROW NIGHT."

Mr. MacLurcan's concert programme, arranged for to-morrow night, is as follows. The first item will be at 7.30 and at 8.0 there will be an interval for code practice in C.W. and Buzzer.

Fox Trot, "Ho."  
Hawaiian Guitar, "My Land of Memory."

Harmony, "Madam Butterfly,"  
Classical Music.

Piano, "Fifth Mazurka In A"  
(Ballad).

Radio-talk, By 2CM.



Miss Josie Melville, of "Sally" fame, listening in at Mr. MacLurcan's transmitting room after broadcasting in what is claimed to be the first professional concert in March, 1923.

Xylophone, "Snowdrops."  
Fox Trot, "Canadian Capers."  
Tenor, "La Bohème," Constantine.  
Hawaiian Guitar, "Hawaiian Nights," Waltz.  
Cello, "Romance Sans Paroles."  
Joseph Hoffman.  
God Save the King.

These programmes were usually headed "Concert Programme," "To-morrow's Concert," "Sunday Night's Concert." I am not sure of the exact date that Mr. MacLurcan broadcast Miss Josie Melville, but a careful search through back numbers of "Wireless Weekly" resulted in my finding the following paragraph in the issue of March 16, 1923:—

"SALLY AT THE MICROPHONE."  
MISS JOSIE MELVILLE TO TRANSMIT.

"Miss Josie Melville will be singing into a microphone at Mr. Chas. MacLurcan's on Sunday evening. It will be the first time on record in Australia that one of our most prominent theatrical stars has transmitted her voice by wireless."

Before concluding, it would not be out of place to quote one of "Wireless Weekly" Editorials dated February 23, 1923, which I came across in hunting for the above facts. It is headed:

"A TALK WITH 'WIRELESS WEEKLY.'"

Two months of the year 1923 are nearly finished, and we shall have no broadcasting. Who is to blame?

Is it the pathetic amateur? Or is it the broadcasting company?

"Wireless Weekly" does not know who is to blame, but it does know this, that unless the amateur and the wireless, dear awake and get busy that months will elapse before we hear decent music in the air (always excepting Mr. Chas. MacLurcan, of Strathfield, who has been, and still is, the only man who has given us first-class wireless music regularly).

"Wireless Weekly" appeals once more to all those interested in the science to clamour for broadcasting. The wireless boom will never come till we have it."

Yes, Mr. Editor, thousands of us have a lot to thank Mr. MacLurcan for, and there may be others besides myself who are fair-minded enough to object when we see others trying to take his honours from him.

Yours, etc.  
F. J. ROBINSON.

North Strathfield.

During the past week Station 2FC has received a record mail from every part of New Zealand. While it is impossible to take extracts from these letters, the following paragraph from "The Dominion" at Wellington seems to express the opinion of the whole of the letters in concrete form. The "Dominion" of May 4th says:—"2FC stood out as the best all-round Australian station during the week. Tone and strength place 2FC on a pedestal."

Philcos are Aristocrats among Batteries.

# The Safety Valve

Readers are reminded that the opinions expressed by correspondents are not necessarily those of this journal. A fair measure of criticism is allowed but preference is given to letters combining interest with brevity. Anonymous letters are not considered



## ARISE, YE PATRIOTS!

Dear Sir,—What impressed me most concerning the Canberra broadcast was the thought of the amazing spectacle of half a million radio listeners rising to their feet when Melba sang and the band played "God Save the King."

Mosman.

Yours, etc.,  
F.A.C.

## MAJORITY RULES?—NO!

Dear Sir,—Most of your correspondents seem to be imbued with the idea that it is imperative that the majority of listeners should be considered. Frankly, I think they should not. A good manager should have power to give the public what he considers is best for them; trying to please the herd, pleases few. Anyhow, they do not know what is best for them. If a station was governed solely by the desires of the majority of its listeners, not a single item in the programme would be fit to listen to.

If I was station manager, I would put out good classical programmes all the time. One does not ask a baby what it wants; one gives it what is good for it, and the question of broadcasting should be viewed from the same angle; it is a cultural instrument that should be used to uplift the race.

There are also many things I would not do. I would not break the regulations by using an "A" class station for advertising, nor would I select announcers such as one station has. Their affected manner makes me feel like heaving a brick. The "Sun" has an article on this subject in to-night's paper, and the writer says that announcers develop this characteristic unless they are big; well, this station's announcer must be minute. This again reflects on the management.

Broadcasting has a great future, it is going to play a big part in the social uplift, and it needs big men with imagination, and big men will not ask the herd what it needs; they will give them it. The station that has this view will always stand out and be appreciated even by the majority.

Yours, etc.,  
J. CLIFTON-BASSETT.

Waverley.

## IN DEFENCE OF SYDNEY STATIONS.

Dear Sir,—The correspondents of this page seem to have a speciality of putting up a wall of woe about local programmes which would make it seem that 2FC and 2BL put nothing over the air worth listening to.

Can any of these listeners offer helpful constructive suggestions? If so, I am sure they would receive consideration and appreciation from the management of the different stations and their energy would be put to better use in suggesting improvements to programmes than in writing letters running them down.

One, "A Playfare," advises to compare Sydney and Melbourne programmes. Well, let him look up the first programmes in the issue his letter appears, and if he still considers the Sydney programme better than the Melbourne in quality or variety his idea is different from Mr. General Public. 2FC has theatre, vocal, varied instrumental, recitation, humorous and dance music by one of Sydney's best jazz bands. What could be more varied or more suitable for anyone wanting to be entertained? Can "A Playfare" suggest improvements?

If these listeners are so keen on 3LO, which I find fades badly, let them get a set which will pick up this station and listen to it without making a noise about locals. They have the choice of any station they wish. One writer even suggests that Sydney stations close down after dark. He does not consider the many thousands with crystal and one or two valve sets who have paid their licence as well as himself.

That someone appreciates the programmes is shown by the huge mail the stations receive, especially from children. That this mail is not restricted to Australia must be an excellent answer to the station's programmes, especially when complimentary letters are received from so far away as the United States.

Finally, I am not in favor of advertising, however camouflaged, being put over the air.

Wishing your paper every success.

Yours, etc.,  
OLD LISTENER.

Wollongong.

## BE FAIR.

Dear Sir,—Well, I think a lot of Safety Valve writers are very selfish, and think of no one but themselves.

In "Wireless Weekly" of 6/5/27 there appeared a letter signed "Woy Woy." What does he mean by cutting five hours off the night programme for the daytime? Now, the greatest part of listeners listen-in at night time. Would he deprive hundreds just for his selfish self? I say, no! I have been a listener now for 18 months, and I have no fault to find with the programmes. If the station managers took notice of those letters, they would last a month and go mad.

There are others who dislike Speedway Items. I like them. Now look at 4QG—what a good announcer!

I don't condemn the stations because what one does not like the other enjoys. I have listened to 5CL, 4QG, 3LO and 2BL, also 2FC, and they are good indeed. I advise "A Country Listener," Woy, Woy, to get a bigger set, and try the different stations, "A Playfare" should think of others as well as himself. One listener, one theory; another listener, another theory. We don't all like the same thing. I, myself, congratulate the different managers of the broadcasting stations for the splendid assortments they put on the air.

Yours, etc.,  
QUITE SATISFIED,  
Toowoomba, Qld.

## WHY NOT THINK?

Dear Sir,—There seems to be a lot of dissatisfied sets owners in N.S.W. I would advise them to get rid of their sets and shut up. I am sure the station managers and staff are doing their best for all concerned. Anyhow, what do people expect to get for the small fee they pay yearly? I am sure it would cost me as many pounds as shillings I now pay for my enjoyment.

I am the owner of a four-valve set, and I get 2FC, 2BL, 2GB, 2UF, 4QG, 3LO, 3AR, 3DB, 5CL, 5DN, 5KA, 7ZL, and 1YA and other amateurs, so if something in my programme does not suit me then a twist of the dials brings me something else.

Yours, etc.,  
J.D.

Leeton.

# It's All in the Air

## Coming Features in the Broadcasting Programs

**CYRIL MONK**, the well-known violinist, will give a series of appearances at 2FC Studio, playing well-known solos, with a little interpretive talk, on Friday, June 10th.

A MONOLOGUE, "A Stroll with Shakespeare" is to be broadcast from station 4QG on May 31. The author of this piece, Mr. Crampton, tells his story by means rather novel. He has drawn from the characters and titles of the works of the great "Bard of Avon" to provide the action, and its delivery will be in the capable hands of Miss Eileen McLennan.

**TALES ON MUSIC:** Much interest has been created by the two talks on Music, by Madame Betts-Vincent, with illustrations at the piano-forte, which have been broadcast by 2BL.

Madame Betts-Vincent, who comes from England with a notable musical reputation, has arranged to deliver a further series of talks dealing with John Sebastian, Bach, Handel, Haydn, Mozart, Beethoven, Schubert, Schumann, Chopin, Liszt, Brahms and Grieg.

**IN RESPONSE** to many requests the Theosophical Broadcasting Station has arranged to broadcast a Church Service on one week night as well as on Sunday mornings. It was considered that as Church Music has proved so popular amongst listeners a week-day service would appeal. Every Wednesday evening at 7.15 p.m. to 7.45 "Benediction" service is to be broadcast.

**UNCLE GEORGE'S BIRTHDAY:** The popularity of "Uncle George" (Mr. George Saunders) with the children whom he entertains during the bedtime session of Station 2BL was demonstrated on the occasion of his birthday recently. In addition to many telephone calls, he received 210 postcards, 45 telegrams and hundreds of letters, all wishing him "Many happy returns."

Most unique of all, however, was a ruse which was presented to him. Beautifully made, it bore kewpies representing "Uncle George," "Daddy Long Legs," "Little Willie" and "Bimbo," who have all endeared themselves to their young listeners. "Hector," the mysterious bird who is so often mentioned during the bedtime session, is represented too, and across a miniature aerial appears the famous "Good night, Bunky Doo."

**BONDI CONCERT BAND** has been reorganised, and will now be heard under the baton of Mr. C. Bignall, in whose capable hands fine performances can be looked forward to. They play at 2FC Studio on 9th and 23rd June.

**ALFRED O'SHEA** has commenced a fresh contract with 2FC, and Raymond Ellis, the well-known English baritone, is returning to Sydney shortly, to give a series of recitals at the 2FC Studio. Other well-known musicians to be heard include Mischa Dobrinski, violinist, and Miss Florence Monkmeier, a pianist of continental repute. These recitals commence early next month.

**NEWCASTLE CUP TO BE DESCRIBED:** This event is to be held on Saturday, May 28, and will be described on the air. Arrangements have been completed with Mr. Grisdale, the secretary of the Club, for the complete description of the meeting, similar to the arrangements that were carried out by 2FC last year. Before the second race had been described, wires and telephone rings were reaching the station's representatives from all parts of the Northern Line, showing what tremendous interest had been aroused.

**PROFESSOR ERNEST WOOD:** Commencing in June, Professor Ernest Wood will give a new series of lectures from the Adyar Hall, and listeners would watch the papers for the subjects which he will be dealing with. Professor Wood will also be speaking every Monday, Wednesday and Friday evenings through 2GB, some of his subjects being "The Philanthropist," "The Religious Devotee," "The Statesman," "The Artist" and "The Man of Imagination."

**JESSIE SHMITH:** It is some time since we heard the mellow contralto voice of Miss Jessie Shmith coming over the air from 3LO, but we are glad to welcome this talented artist once again into our programmes. Family bereavement cut short an extremely successful New Zealand tour, where Miss Shmith was adding considerably to her laurels both as a broadcasting and concert artist, but she is now in harness again, and we are anxiously waiting to hear some of the new songs she has composed with a view to singing them from the Studio in the not too far distant future.

**CAPTAIN FRANK HURLEY** commences his new series of adventure talks from 2FC on Wednesday, 1st June. On that night he will tell of his thrilling experiences with the Douglas Mawson antarctic expedition.

**MASSED BANDS:** Listeners will remember the beautiful performance last year from the Town Hall at the annual concert organised by the United Charities. This year they will repeat the "1812 Overture," and the soloists will include Miss Madal Batchelor and "The Four Waifs." Exclusive rights of broadcasting have been granted to 2FC.

**BLIND CONCERT:** One of the outstanding musical events of the year at Studio 3LO is the broadcasting of the Blind Concert by members of the Royal Victorian Institute for the Blind. Among the many talented performers, all of whom are residents at the Institution, may be mentioned the name of Mr. George Findlay, the distinguished pianist, who was recently successful in carrying off the 3LO Exhibition, and who is now taking full advantage of the three years' additional training at the Conservatorium to which it entitles him.

**THE BELLS OF ST. PAUL'S:** The transmission by 3LO, Melbourne, of the bells of St. Paul's Cathedral is an outstanding feature in the Sunday programmes. It does more, perhaps, than anything else to broadcast throughout the length and breadth of the land the spirit of the Sabbath. There is something soul-stirring and inspiring in the reverberating tones of big bells—a peculiar melody in their resonant notes that proclaims the fullness of peace and goodwill.

**3LO'S LAUGHING COMPETITION:** Victorian listeners may be detected in solitary places smiling, giggling and laughing from "sniggers" to "guffaws" these days. The reason for the wholesale merriment may lie in the fact that 3LO has instituted a competition to find the heartiest laughter in Australia. Anybody who has pretensions to laughing capabilities may enter, and the most sustained, natural and infectious effort will earn a handsome prize. The date for this novelty has not yet been fixed, but already entries have been received. Prominent competitors include Miss Kookaburra and Cyril Northcote and "Dismal" Desmond of the Futurists.

**WELL-KNOWN ENGLISH ORGANIST TO BROADCAST:** Dr. Haigh, the distinguished English organist who has recently arrived in Sydney to become organist at St. Andrew's Cathedral, will broadcast from 2FC on May 29. Evening recitals have been arranged from St. Andrew's for June, July and August, as well as afternoon performances. Organ music is always popular on the air, and Mr. E. J. Robinson, of New Zealand, who is relieving Miss Lillian Frost at Pitt Street Congregational Church during her absence in England, will be heard at regular intervals. Other well-known organists who add to the pleasure of listeners are Mr. C. Helleman, Mr. Arthur Massey, and Miss Constance Bardsley.

**ELLIS PRICE:** An entertainer of considerable skill and ability comes to 3LO in the person of Mr. Ellis Price, who is at present playing with much success with Miss Judith Anderson in the production of "The Green Hat" at the King's Theatre. Adopting the stage as his profession, Mr. Price has done a great deal of writing in his spare time—their generally taken the form of monologues, which have been "given" by the majority of well-known entertainers throughout London and the provinces. As Mr. Price recites practically all his own compositions, he knows to a nicety just the right interpretation that is needed, and his mastery rendering—whether grave or gay—should not only be pleasing to the many listeners who are simply "out for enjoyment," but should prove a first-class lesson to budding elocutionists and monologue artists.

**A FUN DISPENSER:** Every artist—especially every comedian—has his own particular method of studying his parts—at least so says Mr. Spry, the witty comedian who is dispensing fun from 3LO. When a lad, a facetious funmaker who was appearing at the same theatre as Mr. Spry (who was then a lad, and, as an artist, particularly "small fry"), told G.S. that the best thing he knew for the development of talent was to eat as many sandwiches made from raw meat as possible. Trusting implicitly in the knowledge of his "betters" the young artist spent half his wages on rump steak, painstakingly mincing it, made the necessary sandwiches, ate them, and sat down to wait results. As he said, he might have been sitting there yet, had not a particularly excellent offer to join a minstrel troupe come along, which got his feet on the road to success.

**STEPHANIE DESTIE:** Miss Stephanie Destie, the now famous "Wanda" of "Rose Marie," is included in the programme from 3LO and will contribute some delightful vocal items. Possessing a well-trained voice, which she uses to ability in several languages—Miss Destie has gone far since the day she arrived in London as a little Belgian refugee, and enrolled her name at one of the principal schools of Dramatic Art. At that time she had a very limited knowledge of the English language, so slight in fact, that the majority of her first engagements were as a dancer, but, talking to language as the proverbial duck takes to water—a thorough knowledge of English was soon acquired, and, as listeners will soon be able to judge for themselves, her perfect enunciation of our somewhat difficult language is an accomplishment of which she may well be proud.

**UNUSUAL SOUNDS ON THE AIR:** How hard it is to correctly guess the sounds that are caused by the striking of unusual articles in front of the microphone. When 2FC broadcast the radio story from Captain Hurley's home on 12th May, he struck six articles in front of the microphone, giving a slight clue as to the identity of each, and invited listeners to send their guesses to the Studio. The first two correct answers to be opened would receive two of the remarkable pictures taken at the South Pole. The competition was held open for five days, and at the Studio on Friday night, 20th May, he brought the articles again before the microphone, striking them and describing to listeners what they actually were. Entries came from all over Australia, and a number of wires and cables were received. One cable came from Rabaul. Wires were received from Queensland, Hobart, etc., and in all 508 answers were received. This number was correct, because it was necessary to number them all in rotation, as they were received. The articles were in the order in which they were struck.

1. A shell case from France.
2. Chinese dinner gong, A series of different sized bells, hung one above the other and struck downward with a stick. Some of the listeners thought this was the note of the dulciana.
3. A trusted old friend of Captain Hurley—a rifle. Many listeners guessed a revolver.
4. A valve from the Ross Smith aeroplane which brought the intrepid airman to Australia.
5. The bell from one of the dogs in the Shackleton Expedition.
6. A large sea shell, which was blown as a horn.

**DANCE NIGHTS FROM 2FC:** The doubts existing in the minds of the management of 2FC as to the wisdom of an "All Dance Music" night have been rudely dispelled, when the 17th May was given up to a complete dance night. The music was in the capable hands of Eric Pearce and his band of ten members, and from eight o'clock till 11, dances were given in groups of ten minutes. It was the occasion of the State wide radio dance, and listeners were invited to telephone their request numbers, with the result that four telephones were kept going the whole evening, and from the requests received it was possible to include over forty numbers in the programme. Telephone lines even came through from the North Coast and the Riverina. During the intervals between each dance group, Mr. Alfred O'Shea, Australia's foremost tenor, and other favorite artists on the air, kept the dancers happy while they were enjoying a breather. Of course the carphone listener would not be content to have too many evenings given up to dance music. All he can do is to listen and keep time with his feet. But no doubt he is unselfish enough to agree that the station can safely give one night a month to this popular class of entertainment.

**GRAND OPERA BY RECORD:** So many requests reach 2FC for Wagnerian Grand Opera transmissions by means of the complete gramophone records, arrangements have been made for the most suitable set from "The Meistersingers" to be given from the Studio on Friday, 16th June. It is frankly impossible with the talent available, to give a studio performance of such a difficult opera, in comparison to the excellent records which can be obtained. Last year, "Butterfly" and "Aida" were heard, and the effect was remarkable. Stations are loth to use gramophone records, and they are only pressed into service when it is impossible to get results by other means. The philosophic listener is only concerned with what he hears. It is no business of his to know how the results are achieved. If he can hear magnificent choruses and wonderful orchestras by means of these fine records, does he think any less of the reception because it is being obtained from a gramophone record, or would he prefer to hear vastly inferior performers, contenting himself because he prefers items from artists actually in the Studio.

In addition to the description of the Newcastle Cup, 2FC Racing Commissioner will describe Canterbury races on Saturday, 28th May. Other races to be described in the running are Rosehill on 4th June, A.J.C. meeting from Randwick on 6th and 11th June, followed by Canterbury on 18th June, and Moorefield on 25th June.

## New Competition at 3LO

Shorthand writers and stenographers throughout Australia are invited to enter 3LO's new shorthand competition which will take the form of a national championship. Full details are given below by our 3LO correspondent

UNDER the terms of the 3LO Competition which is to be broadcast on Tuesday, May 31, shorthand writers throughout the Commonwealth and New Zealand are to be given an opportunity to compete under conditions which place the test somewhat in the position of a national championship.

The competition is open to every shorthand writer in Australia and New Zealand, and widespread interest already has been aroused. In the three sections which have been provided there is room for both the student and the expert, and entries are expected from every corner of Australasia where 3LO is heard.

It is that fact which has raised the status of the competition from one of purely Victorian interest to one that promises to eclipse in magnitude any shorthand competition which Australia yet has seen.

So far as prizes are concerned, the intrinsic value of the medals and certificates which are to be issued cannot be accepted as a criterion of the value of the competition. Of perhaps small monetary value, the prize medals in the several sections will secure for the successful competitors a prestige which will throw open to them the Door of Opportunity.

Those shorthand writers who gain the coveted 3LO prizes in competition with entrants from every corner of Australia and New Zealand will be assured of an opportunity to convert their proved ability into substantial material gain.

In the Law Courts, in Parliament, and in the commercial world, there is an ever-open door to the super shorthand writer, and the winner of the open division in the 3LO competition will have every reason to claim for himself or herself a distinction which is certain to prove profitable.

The number of inquiries already received by 3LO point to the probability of some thousands of entries for the competition, but it cannot be too strongly stressed that the greater the competition, the greater will be the value of the prize.

Three sections are provided for the test—which will be broadcast at 9 p.m. on May 31st—the dictation for each division being for five minutes, at 100, 120, and 160 words per minute respectively.

Entrants will be required to forward to 3LO both their notes and their transcript, and all papers must



Cyril Northcott of the futurists now appearing at the 3LO studios who is the first entrant in the 3LO champion laughing competition.

be in the post by the evening of the day following the test. Interstate competitors would be well advised to notify 3LO by telegram that their entry had been posted.

BY the time this sees the light, 3LO will have moved to its new palace. A friend was reminding me the other day of the rapid metamorphosis through which this big Victorian station has passed. It seems a far cry from the rooms in Collins street whose walls were covered in green rep and whose windows were almost hermetically sealed to the splendid building with every modern device for making transmission perfect, and with rest and practice rooms for artists.

Yet, as time goes, it is a very little while ago. It is invention and progress that have whizzed so quickly as to emphasise the size of the gap between the "Now" and the "Then." Not only the best station quarters in Australia but among the best in the world, will the new home of 3LO take rank.

MISS LEE WHITE, the ever-popular and talented entertainer, who with her clever husband, Mr. Clay Smith, as pianist, are adding so much to the lightness and brightness of the programmes at 3LO, confesses to a very particular form of nervousness when before the microphone. "One has to be so careful not to make the least slip," she said. "On the stage, it is so different, one makes a blunder—you take the delightful good-tempered audience into your confidence, tell them you have made a mistake and are going to commence again. They think (possibly) that it is all part of the "business" and it more or less adds to the enjoyment of the evening's entertainment. But on the wireless, such a thing would not be practicable—and for that reason alone, one has to be doubly careful. On the other hand, it is astounding to think that so many hundreds—or thousands—may be listening to one's song. It is quite a new feeling for both my husband and myself, and neither of us have quite got used to the experience yet. We have both received hundreds of letters from old friends, and we are delighted for this opportunity secured us to re-establish ourselves in the hearts of our Australian friends."

3LO, MELBOURNE, EXPERIMENTS IN INTER-COMMUNICATION OF THOUGHT: A highly interesting and novel experiment in what is usually known as Telepathy is to be carried out by 3LO, Melbourne, on Monday, 23rd May, at 9.30 p.m. It is not to be supposed that this will be in any way trespassing on the realms of so-called Spiritualism, Theosophy, or other doctrines that may be considered questionable or undesirable by the orthodox. All that is proposed to investigate is the possibility of a number of isolated persons concentrating their thoughts upon one subject unknown to the general body of listeners-in, who will then be invited to write in to 3LO, Melbourne, stating whether they have been led to think of any subject during the duration of the test. Further details of this interesting test will be published in the daily papers and leading Wireless periodicals, and as many listeners as possibly are invited to participate along the lines that will be mapped out.

## Further Notes on the Solodyne

*Readers building this remarkable receiver will be interested in the valuable constructional hints below. Reference is made to diagrams appearing in last week's issue.*

This most wonderful of all five-valve receivers, which was described in last week's "W.W.," cannot be allowed to pass without further comment. During the week the writer has numerous occasions to further test out this one control receiver and has demonstrated it before many friends. All have been astounded to hear the results. The fewer controls, from a broadcast listener's point of view, the easier the handling. Many people argue that the idea of a one control three gang condenser spells inefficiency. This impression is incorrect. Provided the condenser, which is gauged, is of a good type and is fitted with some compensating device on two of the three units equal efficiency will be obtained.

Looking at plan view on page 17 of last week's "W.W.," the compensating midget condensers are seen built into the main Igranite condensers on the left hand side. This enables a simple balancing device which in practice only takes a few minutes to adjust. Some three gang condensers are not suitable. It is absolutely necessary that each unit of the condenser be separate from its neighbor. To this end if three "gangable" type of condensers are used they must not be linked together by slipping the spindle of one condenser into the back central hollow in the spindles of the preceding condenser. If this type of condenser is desired the junction between each unit must be made by means of an insulating block. Procure a spindle of the same size as the condenser spindle and slip it in the back central hollow and screw up, leaving about three-quarters of inch out of the back.

Procure a piece of Dilecto or Radion rod, drill a hole the exact size of the spindle through the length of this rod, which need only be 1 inch long. Drill two small holes and tap them to take a suitable screw which will act as a grub screw and bear on the projecting shaft from the back and the front of the ensuing shaft or spindle respectively. This, although it takes a long time to tell, is really a very simple operation. Adjustment may be made by loosening one grub screw and setting each unit correctly, tightening up when adjusted correctly.

The valves play a most important part in this receiver.

For the two radio frequency stages and the detector stage, Osram DE5 b valves proved by far the best. Perhaps this was because the impedance is correct. Good results were obtained with these valves in all stages, but when Zetka valves were placed in the two audio stages better reception resulted. Up to 150 volts were placed as plate current on B battery; these Zetkas with 9 volts grid bias and the volume were absolutely wonderful and supremely sweet. Hobart station, 7ZL, brought the house down with terrific volume. The MacLurean Tone Purifier proved its worth here. It lived up to its name.

This purifier is a necessary adjunct. When it is realized that no rheostat are used in the set, the filament control being by filament ballast, some form of controlling the output is required. Again, the Solodyne is so sensitive that it picks up all sounds—some perhaps undesirable. The MacLurean Tone Purifier eliminates these extraneous noises without sacrificing volume, which is often the case when other types of resistance controls are used. The MacLurean does the job thoroughly.

Thusly is the Solodyne a remarkably sweet set to listen to. The Toke 2-mfd. condensers have all one side joined to the negative B battery, each separate unit being connected to one B positive connection. Here do we overcome B battery noises.

The reaction condenser is very interesting, but it doesn't affect the tuning in any way. Instead it gradually brings up the volume of a long-distance, weak station, brings it up from 'phone to loud speaker strength. Its incorporation is a blessing.

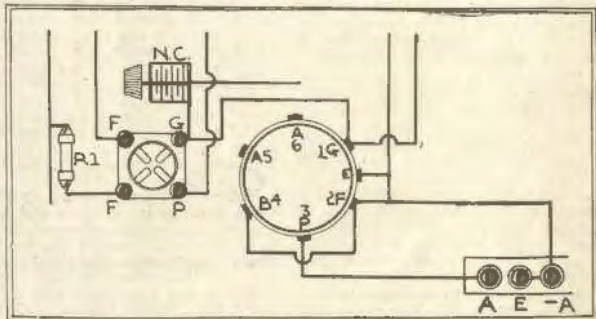
Built as shown in last week's "W.W." the Solodyne is sufficiently

selective for the average purpose. For those who desire more selectivity connect up the aperiodic primary incorporated in the screened aerial coil. Two terminals left vacant in last week's diagram may now be connected as shown in the separate aerial coil diagram reproduced. Change the aerial from the P. to the B and from the B to the P, and note which gives best results. Then stick to it.

The other night on test absolutely every Australian A class station was heard on the speaker. Further, 3SX and 3BD and 5DN absolutely "knocked your head off." But it was exceedingly pleasant to listen to. In addition three New Zealand stations filled the night with music. JOAK, Japan, could be heard comfortably—a fact which is astonishing. As time goes on it is certain that the Solodyne will have many more scalps. Already over 24 stations have been heard on this one dial receiver. Easy too—the beauty of the whole thing is the simplicity of searching for the desired station. Smoothly and easily do they glide in, one after the other, all at a strength to surprise the average man.

Using an indoor aerial of 20 feet of DCC wire strung across a room, 7ZL was strong enough to entertain people in the furthest away part of the house. Six feet of flex strung from the aerial terminal to the window catch created a nice volume from 3AR to be heard anywhere within two rooms.

The Solodyne is the set of the year. It is absolutely marvellous in its performances—it will have many, many friends, and it will unquestionably put in the shade many high-priced receivers. Build it, hear it, and you will be as enthusiastic as the writer.



## What is Your Score?

Here are the answers to the questions that appear on page four of this issue:—

(Series 2.)

1. Major Armstrong, a citizen of U.S.A.

2. Technically there is no difference. Popular interpretation of the words call telegraphy "wireless" and broadcasting "radio." The words may be used interchangeably, as they mean the same thing.

3. In America a valve is called a vacuum tube.

4. An imaginary, all-pervading substance through which the radio waves swiftly move.

5. An individual interested in any hobby uncommercially. A radio "amateur" refers particularly to those who transmit on home-made apparatus, although it includes all classes of listeners.

6. Licenses have been issued for 13 B class stations in Australia.

7. A set in which part or all of the apparatus has been inclosed in or electrically protected by a metal casing or shield.

8. Mr. W. E. Coxon.

9. The U.S. America.

10. If you are under 14 a spanking if you are too old for spanking a new carpet must happen. In reality the water is sulphuric acid, which eats into most things.

**ABUSE BY WIRELESS** is worrying the French because of their peculiar libel laws. The government has been asked to define the rights of those who think they have been unjustly treated by broadcasters and the government found new legislation is needed. A person who is libelled or even mentioned in a newspaper or other periodical has "the right of reply." He is entitled to give his side of the case in his own language, in the same place in the paper and at the same length as the offending passage. He can even unburden himself at greater length by paying advertising rates for the additional phraseology. This right of reply does not hold good in wireless, because the Hertzian waves aren't discovered when the French law was made.

**FINLAND** is to have a radio broadcast station at Lahti, near Helsinki. It is to be of about 25 kw. power and will probably cost in the neighborhood of £10,000. Its wave length will be about 1,550 metres. The city of Helsinki already has two normal wave broadcasters, one of 500 and the other 1,000 watts, but the new one is designed for national broadcasting.

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3 Buffalo (De Jur) High-Grade 30 ohm. Rheostats, at 3/3	0	9	9	10 Black Engraved Terminal Posts, at 4d.	0	3	4
1 Improved Push-Pull Battery Switch	0	2	0	1 Terminal Strip, Drilled for 3 Terminals	0	0	8
1 Lissen Variable Gridleak	0	4	3	3 Black Engraved Terminal Posts, at 4d.	0	1	0
1 Philmore Double Circuit Pantail Jack	0	2	2	1 Durham Variable Resistor, 100,000 ohms.	0	2	3
1 Philmore Single Circuit Pantail Jack	0	1	7	2 Emeco Bakelite Vernier Dials, at 7/6	0	16	0
4 Buffalo Standard Bakelite UX Sockets, at 1/3	0	5	0	1 Bradleystat	0	13	9
1 Karas Harmonik (super) Audio Transformer	1	14	9	1 Doz. Square Buswire	0	0	10
1 Crescent 3½ to 1 Audio Transformer	0	13	6	2 Lengths Spaghetti Covering, at 5d.	0	0	10
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Ajax 30 ohm. Rheostats, wire wound	0	1	10	Sangamo High-Grade Fixed Condensers, .0001 or .001	0	2	9
Certified Wire Wound Rheostats	0	2	0	Rauland Lyric Audio Transformers	3	1	0
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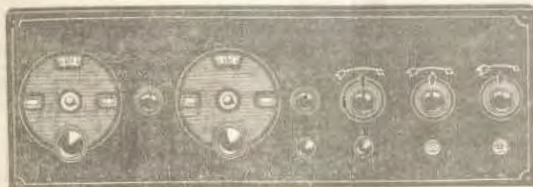
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# The Browning Drake

Re-designed for Australian Conditions

THE Browning-Drake four-valve receiver, is not by any means new, it doesn't suffer anything because of that, rather does it savour of being worth while, as it has stood the test of time. With its noble brother, the Neutrodyne this most wistful four-valver is extremely popular the world over. Over and over again has it been described in these pages and to prove its worthiness, we had that demand, are still being made for back copies in which it has been described. All these copies are now gone, so we do not in any way apologise for delivering this excellent receiver to our readers, many of whom are new, and who would like to have the details for their own use.

Two young Harvard University graduates, Glenn H. Browning and Dr. Drake, some few years ago set about to find some means of adding stabilised radio frequency to the standard three coil receiver. Up to then the known methods fell far short of what was really desired. The tuned anode—fostered greatly by the English—and the usual transformer coupled radio frequency stage, sponsored for by the Americans, could not by any claims to being extremely efficient. Both were somewhat broad in tuning, and neither were particularly stable. To control oscillations in the tuned anode receiver, a potentiometer—a "luser" method was resorted to with reasonable success. Still, the step up effect was not by any means wonderful.

During the time that Browning and Drake were experimenting, Professor Haselme introduced his principle of neutralised radio frequency—the Neutrodyne receiver of to-day having this scheme employed. Certainly, stability was thus obtained. Still, the step up factor was only slightly improved, and it was left to the two aforementioned experimenters to produce a radio frequency transformer with a step up ratio of 2 to 1.

The peculiar construction of this step up transformer or Regenerator, as it is named, made possible the Browning-Drake receiver of to-day. Without going into theoretical detail, a word about the Regenerator will not go amiss. The Regenerator has a primary and a secondary winding, as well as a feed back or regeneration or reaction winding related to the secondary. The secondary, as is usual, is connected across the grid and filament of the ensuing valve. A tapping for neutralisation purposes is arranged in this secondary. The primary is wound in a slotted former in such a way that

when mounted the turns of the primary come right opposite to the last turn of the secondary; of course, at the filament end. A rotatable reaction coil is fitted at the grid or top end of the secondary.

The aerial coil usually consists of a straight winding, tapped at the centre for auto coupling purposes. Some people prefer to make an aperiodic primary for extreme selectivity, and this is usually easily obtained by the incorporation of a 20 turn honeycomb coil fitted inside the aerial coil at the low potential or filament end. Another method of evolving maximum selectivity is being featured very much in U.S.A. to-day; so, for the benefit of those who desire this form, the circuit is being reproduced here, and the back of panel wiring diagram is drawn in conformity.

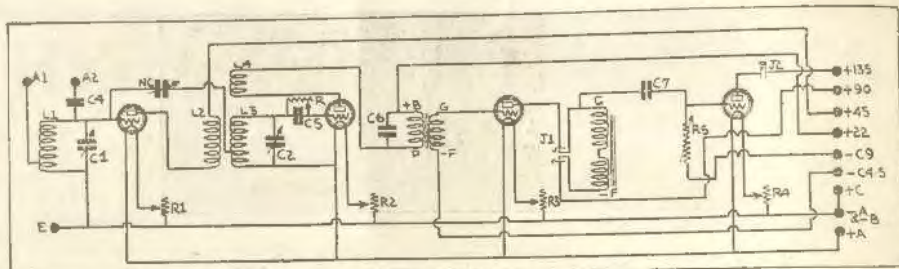
The aerial is taken to the grid connection of the aerial coil, across which is the first variable condenser. From the centre tapping is taken the earth terminal. Between this earth terminal and the bottom of the primary of the regenerator, is a fixed condenser of 1 mfd capacity.

Neutralisation is carried out by means of a metal disc, which is fixed close to the low potential or moving plate end of the aerial coil. From this disc a lead is taken to one side of a .001 fixed condenser, the other side of which joins the plate of the first valve.

So much for the radio frequency end of the B.D. receiver. Now, the question of audio frequency is one of the moment. The standard transformer coupled is still extremely popular, although there are some enthusiasts who maintain that this method is old fashioned and out of date. We will judiciously reserve our decision in this matter, but we will point out the alternative schemes. Next to transformer coupled is

## PARTS REQUIRED.

- 1—Dilecto or Radion Panel 21 x 7 x 1.
- 1—Rudisbas Browning Drake Kit.
- 2—Certified or Pilot .0005 Variable Condensars.
- 2—Eumen or Marco Vernier Dials.
- 1—Brodleynt.
- 2—Pilot or Dejne 20ohms Rheostats.
- 1—Marco or other good quality Battery Switch.
- 1—Marco or other good quality variable Grid Leak.
- 1—Pilot D.C. Jack.
- 1—Pilot S.C. Jack.
- 1—Pilot Valve Socket.
- 2—Radion Valve Sockets.
- 1—Rauland Lyric A.F. Transformer
- 1—Crescent A.F. Transformer or 1—Single Impedance A.F. Unit.
- 1—25 mfd Tube Condenser.
- 1—1 mfd Tube Condenser.
- 1—.0001 Electrodyne Fixed Condenser.
- 2—.001 Electrodyne Fixed Condensars.
- 1—Terminal board with 2 terminals.
- 1—Terminal board with 3 terminals.
- 1—Baseboard 20 x 9 x 1.
- 12—Busbars, arcus etc.



The circuit diagram of the standard Browning Drake with impedance coupled amplification for last stage.

general use comes resistance coupled amplification.

Schems of this form declare that it is the last word in purity, although a higher B. battery voltage is required to get the results and three stages of resistance coupling are required to get the resultant volume of two stages of transformer coupled. The writer has heard many resistance coupled amplifiers compared with transformer coupled and the resistance form proved worthy of investigation, although, strange to relate, the most raucous receiver the writer ever has heard has resistance coupling featured. This was brought about by faulty resistances, which when replaced brought the receiver into the category of one of the best.

Impedance coupled amplification is well to the forefront to-day, as is also double impedance coupling, as described in "Wireless Weekly" recently. Certainly no one can dispute the fact that impedance coupling, in its different forms, is very nicely toned. Still, the step up effect so much desired for loud speaker results, is not very present, and back once more do we come to transformer coupling.

The greatest drawback with transformer coupling lies in the design of the audio frequency transformer

itself. Most of them have been too "skinny" in material. Realizing this, the manufacturers of transformers introduced an article with a large primary and a good big core. This was a step in the right direction, so that to-day we have the Rauland Lyric, Karas, Gecophone, and Large Jefferson, and many others which are well worthy of the name. These transformers are perhaps a little more expensive than the usual run, but they are certainly worth it. "Ask the man who owns one."

In the Browning-Drake of this week we are effecting a compromise. Immediately following the detector there is placed a Rauland Lyric transformer. A jack is so provided that if only one stage of audio frequency is required, the speaker may be plugged in after this big transformer or after the third valve. The second stage of audio frequency is of the impedance type. For this purpose an aud. transformer is used, the output primary being connected to the input secondary, thus placing both windings in series. If desired, a single impedance unit may be placed here or cheaper still, use the secondary only of one of your old transformers, in which the primary has broken down. A .25 mfd. fixed condenser acts in the coupling condenser, the whistle, if

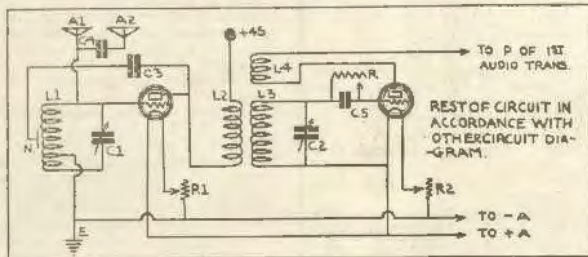
any, in this stage, being eliminated by means of a variable 100,000 ohms resistance. Try this, you will like the tone.

The front panel view is very striking. Two vernier dials are used for tuning purposes. Between these dials is the knob for the Bradclaystat, which controls the radio frequency valve. To the right of the second dial is the tickler knob—that is the knob which is attached to the spindle of the reaction of the regenerative transformer. Below is the battery switch, which switches off the current from all valves. Next on the battery switch level is the knob for the variable grid leak—then come the double and the single circuit jacks to provide for three or four valve strength at will. Above the three rheostat knobs are in a row—detector, first audio and second audio in that order. All terminals are at the back, thereby overcoming all trails and messy wires from the front of the set.

To begin the construction of this Browning-Drake, firstly mark out the panel. The panel, drilling diagram will give you all the measurements to make an exact copy of the layout adopted in this receiver. Centre punch each position and then drill. Don't forget the catch screws for the vernier dials; also the holes for fixing the panel in position on the baseboard. When the drilling has been completed, mount the various components.

Support the aerial coil and the regenerative coil of the baseboard and behind the condensers. Small brackets need to be fashioned for this purpose, and it will be noted that the Radioakes kit is ideally built for accepting these brackets. Note carefully that the coils are so mounted that a line drawn from the centre of the aerial coil should cut right through the centre of the regenerative transformer. This can be gauged from the plan view and is of distinct importance.

Fix the panel to the baseboard temporarily, but in correct position, and lay out the baseboard parts. Take your cue from the plan view. Note



The improved Browning Drake circuit. Note neutralizing arrangement.

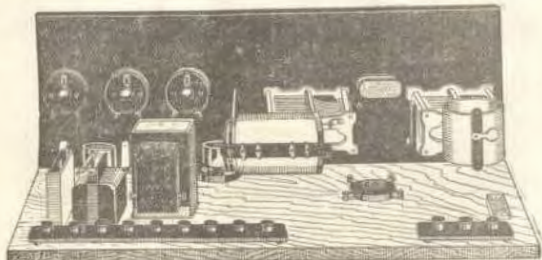
Just where the radio frequency valve socket finds its position. The filament terminals face the Bradostat; this happens with all valve sockets; the filament terminals of each valve face the panel. The rest of the placements are in correct position, and can easily be distinguished when compared with the panel wiring diagram. Fix everything as suggested, then remove the panel and commence wiring.

#### Wiring.

Remove panel from baseboard, and wire up the different components on the panel. Run a busbar from the last terminal of the last rheostat right along the bottom of the panel beneath the jacks, and beneath the rheostats, and switch to the centre tapping of aerial coil, thence to earth terminal. Joining this wire is a connection from each of R1, R2, R3 and R4, and switch thence later on to the A. negative terminal on the terminal board from other side of battery switch.

Now screw up the panel to the baseboard, and continue the wiring, low down on the baseboard link together one side of each valve socket, that side which leaves the spare terminal of each socket handy for a short lead to the rheostat. Bring this wire in front of the sockets within half an inch of the rheostat common wire, and run it along to the audio frequency socket. At this point bring a connection straight up from the regenerative or second condenser. From this busbar a lead goes to the A. positive terminal of the terminal board, and also to the B. on the same board.

Next mount the clips of the resistor or the variable resistance (100,000 ohms.) on a small piece of detecto-



Back view of receiver showing relation of coils.

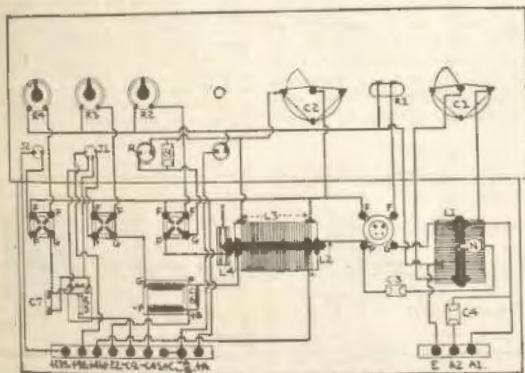
We mounted our resistor on the top of the Crescent transformer, relying on the stiffness of the busbar to hold it in place. Following this out, take a connection from one side of the resistor to one side of the quarter microfarad fixed condenser, and from thence to the grid terminal of the last valve socket. The P. terminal of the last valve socket join to the bottom lug of the S.C. jack. The remaining lug of this jack join up to the B550 volt terminal of the terminal board.

Now join the F. of the Crescent transformer to the B. of the primary of the same transformer. If a broken down transformer is used here, of course, this connection must be omitted and the connections remain as described, as follows: The G. terminal of the Crescent transformer is connected to the remaining side of the quarter microfarad fixed condenser, and from thence to the second top lug of the D.C. jack. The F. terminal of this same transformer joins the third

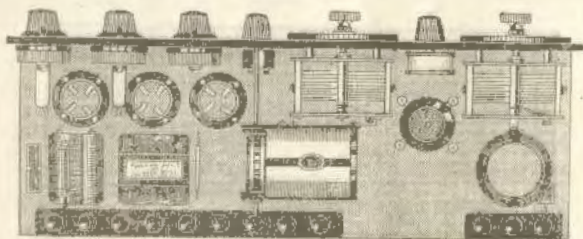
top lug of the D.C. jack, the C. bottom lug of which joins the B. positive 90 volt terminal on the terminal board. The top or first lug of this jack is connected to the P. terminal of the third valve socket. The G. terminal of this valve socket goes to the G. terminal of the Rauland Lyric A.F. transformer. The F. terminal of this transformer is taken direct to the C. negative 45 volt terminal of the terminal board. The C. negative 9 volt of the terminal board is taken to the remaining side of the variable resistor (100,000 ohms.).

Now join the B. positive 225 volts (detector) to the B. terminal of the Rauland Lyric, and the P. terminal of this same transformer to the nearest lug for connecting the reaction rotor. The other side of this reaction rotor join to the P. terminal of the detector valve. The G. terminal of the detector valve join to the one side of the 00025 fixed grid condenser, to which is connected one side of the variable grid leak. The other side of the grid leak joins the other side of the 00025 fixed grid condenser, which in turn is connected to the fixed plates of condenser C2. These same fixed plates are connected to the G. of the regenerative, the F. of which is taken to the moving plates of the same condenser, which in turn joins the F. positive wire on the baseboard.

Join the B. of the regenerative to the B. positive 45 volts on the terminal board and connect the P. of the regenerative to the P. of the first or R.F. valve socket. Now join the fixed plates of C1 to the A. of the aerial coil and the moving plates to the other end of this coil. Run a wire from the fixed plates of C1 to the G. of the first valve, and connect this to one of the aerial terminals. The tapping in this aerial coil join to the earth terminal, which in turn joins the A. negative wire. From the P. of the first valve join to one side of a .001 fixed condenser, the other side of which join to the neutralising five mounted on aerial coil. From A2 join



The back of panel diagram, using the latest system.



The plan view. Note the sockets and the coil fixing.

to one side of a .0001 mfd. fixed condenser, the other side of which join to A1. This completes the wiring. Check off with the circuit and back of panel wiring diagram, and rectify any errors which may have arisen. Solder carefully and well where such type of join is made. If soft spaghetti or Fort wire is used, point to point wiring may be resorted to. Remember to keep the grid and plate leads apart and do not run them parallel under any circumstances.

If desired, the small fixed .0001 condenser in the aerial lead may be of the variable variety, such as an Advance midget. This may be mounted on the baseboard near the aerial terminals, and is of extreme value for maximum selectivity. Perhaps this is to be preferred to the fixed condenser, but try the fixed first.

Connect up the batteries in accordance with the terminal board instructions. It is advisable to use a True Blue Power Plus in the first stage, as it is easier in every way to neutralise. This is a small valve of the 199 type base, and therefore is of a very low self capacity. The socket wiring will have to be altered slightly to allow for this valve, but this alteration is very slight. It is a 6 volt .25 amp. valve, therefore, it is possible to eliminate some trouble in stepping from 6 volts to 4 volts for the R.F. valve. The rest of the valves may be Mullard, Radiotrons or Oarama, but the writer used three Zetna valves in the test, and was very pleased with the results.

However, insert the valves in their respective sockets and connect up aerial and earth. Plug speaker into the S.C. jack. When the plug is pushed into the jack a distinct "pop" should be heard, indicating that the batteries are connected O.K.

Now find another "pop" by touching a wet finger on the grid terminal of the regenerative, or the fixed plates of C2. This is a test for oscillation, and is interesting to find. If this "pop" is not heard, turn up the reaction until the bobbin is parallel with the secondary windings of the regenerative.

Leaving the reaction in this position, turn condenser C2 and many whistles of different stations will be heard. Still tune in the local station to the loudest point. Now turn off the current from the first valve by turning off the Bradleysat. The station will still be heard. Next adjust the small plate on the aerial coil until a minimum of signal strength is available. This neutralises the first valve.

The tuning is easy, only two dials to tune. If you consider the rotor of the regenerative as a sensitivity control, excellent results will be achieved. The Bradleysat will be best understood as a volume control. The other rheostats are not critical.

All interstate stations will be heard on the Browning-Drake. A small indoor aerial 20 feet long at Marrickville, yielded wonderful results. It was quite pleasant to hear Uncle Jack Prentice again from New Zealand. There was no mistaking his voice. The volume is wonderful, so much so, in fact, that the unit in my loud speaker went "wast." Still, 3LO, 4QG, 5CL and 1YA were easy tuning, and if the receiver is built to our design, splendid results will accrue.

## An Australian Program

Continued from Page 6

and New Zealand listeners an opportunity of hearing the programme. KOA will broadcast from 1 a.m. to 3 a.m. on May 29, corresponding to 6 p.m. to 8 p.m. Sydney time on the same date. The power used is 5000 watts, and the wave length 322 metres. KOA, on special tests, has already been heard in New South Wales, so that, given fair conditions, there is every possibility of the station being picked up.

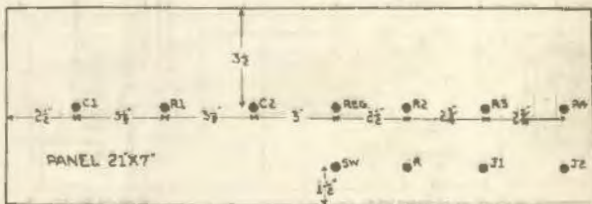
Listeners are invited to send reports and a list of items heard to "Wireless Weekly," 51 Castlereagh-street, Sydney.

The General Electric Company are carrying out a splendid publicity campaign and a 500 words story dealing with the programme will be released to over 1,000 of the leading newspapers from coast to coast throughout U.S.A., during the coming week. Arrangements have been made to hold station 2FC silent for a short period on the 29th, until it is seen whether the transmission from KOA can be successfully picked up direct by listeners.

With the co-operation of the Amalgamated Wireless of Australasia, Ltd., 2FC will carry out a test reception at about 6 o'clock on the Sunday evening, and should the transmission be sufficiently good to re-broadcast, 2FC will then set their big station going, with a view of re-broadcasting KOA.

### "THE STANDARD OF QUALITY."

A quaintly worded card reaches us from Bunn's Rocky Mountains. The sender is Mr. J. I. Carroll, manager, New System Telephones Pty., Ltd., who, with Mrs. Carroll, is over there on a holiday. Mr. Carroll writes: "As with Burgess Batteries, the scenery is worth coming a long way to see." He sends his best wishes to all "Wireless Weekly" readers.



Panel drilling diagram. Compare with front view.

Perfect Reception Every Day Possible with Philco.

## New Wireless Apparatus

### EMMCO BACK PANEL VEKNIER DIAL.

This dial represents something unique and outstanding even amongst the most modern dials, and has features which give it pre-eminence in its particular field. It is supplied complete with template for mounting, and as it has a one hole fixing, no trouble is experienced in placing it on the panel.

The dial itself is mounted behind the panel, the markings being visible through a small logging window immediately behind the dial, which has a hair line adjustment.

Also obtainable with the dial is the illuminator, the mounting for which is also provided for on the template; this also has a one hole fixing, the arrangement being such that the small lamp appears immediately behind the logging window, throwing the dial markings into sharp relief. This illuminator is provided with an automatic cut-off switch, which is operated by a small knob projecting through the front of the panel.

The dial itself has a delicate vernier action, although of sturdy construction, and its arrangement is such that it may be adapted to any existing type of condenser. The whole job is beautifully finished, and is a distinct departure from any other type at present obtainable.

It may be obtained either with or without the illuminator, and can be recommended to all those who require attractive apparatus with good performance.

The Radio Corporation announces the introduction of transmitting tube 17X 852, particularly adapted to short waves. The capacity of the tube is rated at 75 watts.

### BRACH

#### TELEPHONE PLUG.

The Brach Telephone Plug is of high-grade manufacture, with brown bakelite moulding, red dot on side, showing polarity marking. Has special slot on which to tie speaker or telephone cord, thus taking the strain off the tips. To connect, simply push tips in as far as they will go, being held automatically supplied by

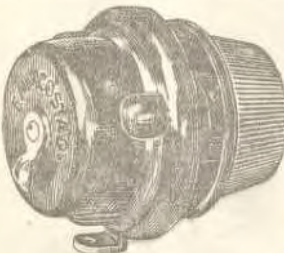
Amalgamated Wireless (A/asia), Ltd.,  
47 York St., Sydney.

### THE EMMCOSTAD.

The Emmcostad may be best summed up as a universal radio resistance. It is designed in a number of different resistances for controlling the filament tone for all types of valves, for use in resistance coupled amplification, and also for "B" battery eliminators.

Number 1 Emmcostad has a resistance range from 1 to 100 ohms. Number 2 is a direct variable resistor from 10,000 to 100,000 ohms, and is of especial use for controlling the tone of audio transformers and in resistance coupled amplification. No. 3 functions much the same as No. 2, except that the capacity is from 2,500 to 25,000 ohms. No. 4 Emmcostad acts similarly, but has a capacity from 50,000 to 500,000 ohms.

No. 5 has a capacity from 0 to 5 megs., and is of especial use in "B" battery eliminators, although it is adaptable to any purpose requiring a universal variable radio resistance.



It stabilises tuned radio frequency receivers, controls the volume where coupled audio frequency amplification is used, and controls regenerative circuits and regenerative resistance amplified circuits. Number 6, with a capacity of 1 to 10 megohms, is particularly useful as a valuable grid resistance.

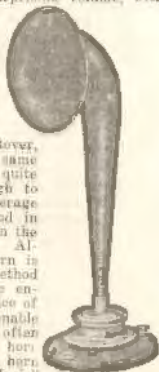
The Emmcostad has an attractive appearance, a Bakelite knob and casing, and a one hole mounting. It is unaffected by heat or moisture. Emmcostads will not pack.

In the Emmco advertisement in our last issue the price of the new back of panel illuminated dial was inadvertently quoted at 1/6, the price of the illuminators only complete with switch and bulb. This price should have read 3/6.

The price of the new Emmco back socket was quoted at 2/6, the cost of the socket without frame for base panel mounting, instead of 3/9.

### THE TRUE MUSIC JUNIOR LOUD SPEAKER.

This British made loud speaker, though only eighteen inches in height, gives really surprising volume, with good tonal quality. It will handle all the volume from the average 3-valve set without any rattling of the diaphragm whatever, but at the same time it is quite sensitive enough to work on the average 2-valve set, and in some cases even the 1-valve set. Although the horn is metallic, the method of manufacture ensures the absence of any objectionable "ring" so often found in metal horn speakers. The horn of the "True Music" speaker is unique in construction.



The base material used in the construction of the horn of this speaker is of non-resonant heavy composition, similar to type metal. This is then plated with a thick deposit of electrolytically deposited copper until a substantial thickness is built up. This method is exclusively employed by the makers of "True Music" speakers, and they are amongst the world's largest manufacturers of reproducing instruments.

The base of the speaker containing the diaphragm and the electro magnetic is extremely well made and solid. The magnet coils are wound to a resistance of 4000 ohms, with a heavy gauge of enamel covered wire. The magnets are strong and permanent and are adjusted in relation to the diaphragm itself by means of a nickel-plated screw device beneath the base. The diaphragm is of the best alloy iron, and is firmly clamped and secured by five machine screws.

The connecting terminals are marked positive and negative respectively to insure correct polarity when in use. In appearance the speaker is very pleasing. It can be obtained in either bright black and nickel finish or in polished lacquered copper and art brown.

Supplies of this speaker are available at "The Economic Radio Stores."

# Wonderful Tone—Perfect Reproduction

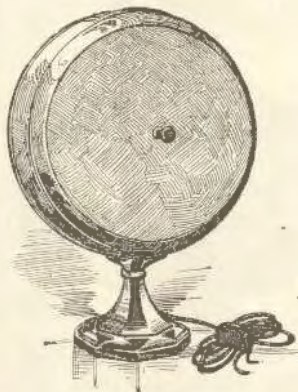
WITH THE

## Tefag Cone Loud Speaker

The Tefag Cone Speaker is something new in Loud Speaker design and construction. Specially and scientifically built to give greater volume with minimum current input, and with exceptional clarity and volume, over the full frequency range. Elegantly shaped; frame made of heavy Copper Florentine Bronze finish. Has a full floating diaphragm and 4 pole magnets, fully protected by heavy copper gauze, covered with silk, which greatly adds to its attractiveness. Undoubtedly the finest and best Loud Speaker offered to date.

PRICE :

£6/10/-



PRICE :

£6/10/-

Satisfaction Guaranteed or Money Refunded. We have the largest assortment of Loud Speakers to offer than any other Radio Supply House in N.S.W.

Numerous other Designs and Makes to Choose From.

## OTHER CONE TYPES.

Rola . . . . .	£6/15/- each	Amplion . . . . .	£4/17/6 each
Philips . . . . .	£6/10/- each	Musicone . . . . .	£3/10/- each
Farrand . . . . .	£4/- each	Scala . . . . .	£2/15/- each

## HORN TYPES.

Full Range of Amplions. Brown. Manhattan.

Send for Illustrated Price List. EXPERT ADVICE GRATIS.

We offer expert advice on all your Radio problems. Write us and explain any of your difficulties—our advice is free.

Send for Accessory Price List R8.

## Wiles Wonderful Wireless and Electrical Stores

PITT AND GOULBURN STREETS :: SYDNEY

Branch: 23 Pitt Street, Near Circular Quay. Branch, 384 Pitt Street, Near Goulburn St.  
MAIL ORDER DEPT.: 60 GOULBURN STREET.

# BROADCASTING PROGRAMMES

for the COMING WEEK

## Friday, May 27

### 2FC, SYDNEY.

#### Farmer's Broadcasting Service.

Wave Length, 442 Metres.

#### MIDDAY SESSION

- 12 noon—"Big Ben" and programme announcements—news service and cables.  
 12.15 p.m.—Stock Exchange, first call.  
 12.3 p.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.  
 12.5 p.m.—Studio music.  
 12.16 p.m.—Summary of "Sydney Morning Herald" news service and cables.  
 12.45 p.m.—"For Ever and for Ever" (Tact).  
 12.44 p.m.—Studio music.  
 2 p.m.—"Big Ben." Weather intelligence.  
 2.1 p.m.—"Evening News" midday news service.  
 "Teachers' Distributing Society's Report."  
 2.28 p.m.—Studio music.  
 2.30 p.m.—Stock Exchange, second call.  
 3 p.m.—Marching music for school children.  
 3.19 p.m.—Studio music.  
 3.15 p.m.—Miss Ethel Muller, contralto:  
 "Ode Mio Ben" (Giordani).  
 3.50 p.m.—Studio music.  
 4 p.m.—"Big Ben." Close down.

#### AFTERNOON SESSION.

- 4 p.m.—"Big Ben" and announcements.  
 4.15 p.m.—Mr. Herbert Snelling, baritone.  
 4.16 p.m.—Pianoforte.  
 4.25 p.m.—Miss Annie Payne, mezzo:  
 "Caller Herrin" (Scott).  
 4.30 p.m.—Marching music for the school children.  
 4.40 p.m.—From Farmer's Oak Hall:  
 Miss Jeannette Rosner, contralto:  
 "The Birds go North again" (Wibbey).  
 4.41 p.m.—A Talk from the Studio:  
 Pauline Fry on "Anecdotes of Animals."  
 4.5 p.m.—From Farmer's Tea Rooms:  
 Miss Fern Butler, soprano:  
 "With the Trade of the Garden and Field" (Keel).  
 4.5 p.m.—Miss Annie Payne, mezzo:  
 "Within a Mile of Edinburgh Town" (Scott).  
 4.10 p.m.—Studio music.  
 4.15 p.m.—Mr. Herbert Snelling, baritone.  
 4.16 p.m.—From Farmer's Tea Rooms:  
 Miss Jeannette Rosner, contralto:  
 "No Little Town" (Lohr).  
 4.18 p.m.—Studio music.  
 4.20 p.m.—From Farmer's Tea Rooms:  
 Miss Cecilia Butler, soprano:  
 "Lilies" (Kachmannhoff).  
 4.45 p.m.—Stock Exchange, third call.  
 4.47 p.m.—Studio music.  
 4.50 p.m.—"Big Ben." Close down.

#### EARLY EVENING SESSION.

- 7.45 p.m.—"The Chimes of 2FC."  
 7.50 p.m.—"The Hello Man" talks to the children.  
 8.30 p.m.—A Heral Story.  
 8.50 p.m.—Dinner music.

- 7 p.m.—"Big Ben." Last minute sporting information by the 2FC Racing Commissioner.  
 7.30 p.m.—"Daily's Market Reports" (wheat, wheat, stock).  
 7.34 p.m.—Fruit and vegetable markets.  
 7.50 p.m.—Weather and shipping intelligence.  
 Stock Exchange.  
 7.54 p.m.—Late "Evening News" news service.

#### NIGHT SESSION.

- 7.45 p.m.—Announcements.  
 7.50 p.m.—Studio items.  
 8 p.m.—Broadcast from the Theatre Royal, Sydney: The First Act of the Musical Comedy, "FRASQUITA" featuring Miss Marie Burke and Mr. Herbert Brown.  
 8.05 p.m.—"The Night Outcast."  
 MUSICAL NUMBERS:  
 Opening Chorus, Luc Indrak, Aldebin Martin, Frank Leighton and Full Chorus.  
 "You still love me, no doubt," Thelma Burke and Chorus.  
 "The Greatest Chorus," Full Chorus.  
 "Thieves, Thieves," Marie Burke.  
 "Tell me what loving is," Marie Burke.  
 "Remember in Stockland," Marie Burke and Chorus.  
 "Value Enclosed," Marie Burke, Marie Eaton, and Chorus.  
 "Maiden, Maiden, if You Want a Man," Thelma Burke, R. Barrett-Lawward, Cecil Kirkway.  
 Finale, Marie Burke, Herbert Brown.  
 8.3 p.m.—From the Studio: A Talk on Bridge by Mr. Graham Kent.  
 "Talking 'til Tramping."  
 8.14 p.m.—Mr. Clyde Thorne, violinist:  
 "Viennese Melody" (Kraljan).  
 8.20 p.m.—Mr. Alfred Cunningham, baritone:  
 (a) "Don Juan's Serenade" (Tchobakovsky).  
 (b) "I Love Thee" (Grig).  
 8.27 p.m.—Miss Alice Prouse, contralto.  
 8.30 p.m.—Mr. Clyde Thorne, violinist:  
 "Judean Snake Dance" (Burgale).  
 8.35 p.m.—Mr. Charles Lawrence, entertainer:  
 "If I were dead" (Nonesens).  
 "Such an Educated Girl" (Weaver).  
 8.43 p.m.—Broadcast from the Wentworth Hotel, Sydney; Dance music.  
 8.50 p.m.—From the Studio:  
 Miss Alice Prouse, contralto.

- 9.05 p.m.—Mr. Clyde Thorne, violinist:  
 "Caconetra" (D'Ambradi).  
 9.10 p.m.—"Big Ben."  
 M. Alfred Cunningham, baritone:  
 1. Attempt from Lewis Sickness (Parcell).  
 19.1 p.m.—Mr. Charles Lawrence, entertainer:  
 (a) "Love."  
 (b) "Impressions."  
 19.12 p.m.—Miss Alice Prouse, contralto.  
 19.14 p.m.—Wentworth Cafe Dance Orchestra.  
 19.24 p.m.—Mr. Alfred Cunningham, baritone:  
 (a) "Werner's Parling."  
 (b) "Down Below You" (Harris).  
 19.3 p.m.—Wentworth Cafe Dance Orchestra.  
 19.42 p.m.—Celebrity Records.  
 19.50 p.m.—Announcements.  
 19.55 p.m.—Wentworth Cafe Dance Orchestra.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY.

### Broadcaster's Ltd.

Wave Length, 355 Metres.

#### Friday.

- 11 noon—G.P.O. clock and chimes.  
 12.1 p.m.—Special ocean forecast and weather report.  
 12.3 p.m.—Musical programme from the Studio.  
 12.18 p.m.—Information—Mail and shipping and movement of important ships.  
 12.16 p.m.—Sydney Stock Exchange calls.  
 12.18 p.m.—Hints in call by wireless.  
 12.29 p.m.—Fruit market report.  
 12.21 p.m.—Vegetable market report.  
 12.23 p.m.—London metal market report.  
 12.24 p.m.—Dairy and farm produce market report.  
 12.27 p.m.—Racing resume.  
 12.29 p.m.—G.P.O. clock and chimes.  
 12.31 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Sporting information ("Sun").  
 12.45 p.m.—Hiller's Instrumental Quartet—Hilbert, Carl Goshen.  
 1.30 p.m.—G.P.O. clock and chimes.  
 2.11 p.m.—News from the "Sun."  
 1.10 p.m.—Musical programme from the Studio.  
 1.30 p.m.—News from the "Sun."  
 2 p.m.—G.P.O. clock and chimes.  
 Racing information broadcast immediately after each race, by courtesy of the "Sun."  
 2.1 p.m.—Talk to children and special entertainment for children in hospital.  
 2.20 p.m.—Talk on "Blowing" by Miss Verley.  
 Broadcasters' women's sports society.  
 Social Notes—Replies to correspondence by Mrs. Jordan.  
 Talk on "Feeding the Family" by Mrs. Jordan.  
 3 p.m.—G.P.O. clock and chimes.  
 3.1 p.m.—Musical programme from the Studio.  
 3.15 p.m.—Cled Service Stars Trio—Dorothea, Miss de Courcy, Hester.  
 3.30 p.m.—G.P.O. clock and chimes.  
 3.31 p.m.—Talk on "The Grand Opera," illustrated by H.M.V. records.  
 3.50 p.m.—News from the "Sun."  
 4 p.m.—G.P.O. clock and chimes.  
 4.1 p.m.—Civil Service Storm Tria.  
 4.10 p.m.—Serial story.

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

- 2FC—Farmer's Broadcasting Station, 442, Sydney, wavelength 442 metres, power 2000 watts.  
 2BL—Broadcasters' Ltd., Sydney, wavelength 355 metres, power 6000 watts.  
 2GD—Theopneustical Broadcasting Station, 412, Sydney, wavelength 310 metres, power 100 watts.  
 2KY—Trade and Labor Council, Sydney, wavelength 250 metres, power 1500 watts.  
 2LW—Otto Sandel, Sydney, wavelength 267 metres, power 200 watts.  
 2MK—Moeckler Bros., Bathurst, wavelength 475 metres, power 750 watts.  
 2UE—Electrical Lighting Supply Co., Sydney, wavelength 235 metres, power 250 watts.  
 2RE—Burgin Electric Co., Sydney, wavelength 316 metres, 100 watts.  
 2RD—B. A. Douglas, Newcastle, wavelength 238 metres, 100 watts.

Let Your Battery Save our Furne: Philco.

4.30 p.m.—G.P.O. clock and chimes.  
4.35 p.m.—Musical programme from the Studio.  
4.41 p.m.—News from the "Sun."  
4.46 p.m.—Racing resume.  
4.52 p.m.—Producers' Distributing Society's fruit and vegetable market report.  
4.54 p.m.—Resume of night's programme.  
4.56 p.m.—Announcements.  
4.58 p.m.—Special ocean forecast.  
5 p.m.—G.P.O. clock and chimes.  
Close down.

## EARLY EVENING SESSION.

5.45 p.m.—G.P.O. clock and chimes.  
5.48 p.m.—Uncle George and the kiddies.  
5.49 p.m.—Musical programme from the Studio.

## SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. clock and chimes.  
Australian Mercantile, Land and Finance Co's report.  
Weather report and forecast by courtesy of Government Meteorologist.  
Producers' Distributing Society's fruit and vegetable market report.  
Stock Exchange reports.  
Grain and fodder report ("Sun").  
Dairy produce report ("Sun").

7.15 p.m.—Country news from the "Sun."  
7.36 p.m.—Talk on "Gardening Science."  
8 p.m.—G.P.O. clock and chimes.  
Broadcasters' Typical Chats.  
8.5 p.m.—Mr. Norman Wright, leader.  
8.10 p.m.—Miss Beryl Scott, subleader.  
8.17 p.m.—George Campbell of Veterans of Variety and Violet Vlejoira.  
8.32 p.m.—Broadcasters' all-sports expert will talk on racing.

8.45 p.m.—Broadcasters' Sports.  
8.57 p.m.—Resume of following day's programme.  
9 p.m.—G.P.O. clock and chimes.  
Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.

9.5 p.m.—Miss Winifred Jenner, mezzo soprano.  
9.8 p.m.—Mr. Ted Stanley, comedian.  
9.16 p.m.—Miss Mary Neal, mezzo contralto.  
9.24 p.m.—Mr. Norman Wright.  
9.30 p.m.—Louise Graham and Fred Kingley.  
9.45 p.m.—The Sporting Editor of the "Sun" will talk on the prospects of Saturday's racing.

10.4 p.m.—Broadcasters' Trio.  
10.13 p.m.—Miss Beryl Scott.  
10.19 p.m.—Mr. Ted Stanley.  
10.26 p.m.—Miss Winifred Jenner.  
10.35 p.m.—News items by courtesy of the "Sun" Newspapers.  
10.45 p.m.—Miss Mary Neal.  
10.50 p.m.—Broadcasters' Trio.  
11 p.m.—G.P.O. clock and chimes.  
National Anthem.

## 2GB, SYDNEY

Theosophical Broadcasting Service.

Wave Length, 316 Metres.

## Friday.

9 a.m.—Music.  
9.45 a.m.—Theatre Talk.  
9.15 a.m.—Music.  
9.25 a.m.—Psychological Class.  
9.45 a.m.—Music.  
9.46 p.m.—Health and Diet.  
10 a.m.—Close down.

## AFTERNOON SESSION.

3.30 p.m.—Music.  
3.37 p.m.—Mrs Wood.  
3.52 p.m.—Music.  
4.2 p.m.—Talk.  
4.23 p.m.—Music.  
4.30 p.m.—Close down.

## EVENING SESSION

6.30 p.m.—Children's Session.  
7 p.m.—Music.  
7.5 p.m.—Talk.  
8.15 p.m.—Music.  
7.20 p.m.—Tonica! Talk.  
7.30 p.m.—Music.  
7.45 p.m.—Talk to Men.  
7.55 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK.  
8 p.m.—Address by Professor Ernst Wood.  
8.30 p.m.—Songs.  
1.  
2.

8.37 p.m.—Sonata for piano; MISS ADA BROOK.  
8.45 p.m.—Instrumental Trio: MONICA RORDER, MURIELLE LANG, ADA BROOK.  
9 p.m.—Topical Talk.  
9.15 p.m.—Violin solos by DAN SCULLY.  
1.  
2.

9.20 p.m.—Songs.  
1.  
2.

9.27 p.m.—Instrumental Quartet: DAN SCULLY, MONICA RORDER, MURIELLE LANG, ADA BROOK.  
9.53 p.m.—Chorus Talk.  
10 p.m.—Close down.

## 6WF, PERTH

Westralian Farmer's.  
Wave Length, 1250 Metres.

## Friday.

12.30 p.m.—Tune in.  
12.35 p.m.—First Local News Bulletin.  
Market Reports, Cables.  
1 p.m.—Time Signal from Perth Observatory.  
1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.  
1.2 p.m.—STUDIO QUINTETT: March, "Trinity Commanders" (Jones), "Pantomime Dances" (Bairstow), "Romantic Dreams" (Kendall), "Hungarian Koloss" (Brent), "Valse"; "Modern" (Leigh).  
1.30 p.m.—Close down.  
3.30 p.m.—Tune in.  
4.35 p.m.—Musical programme.  
4.50 p.m.—Close down.

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

31.0.—Broadcasting Company of Australia, Ltd., Melbourne, wavelength 371 metres, power 6000 watts.  
46U.—Queensland Radio Service, Brisbane, wavelength 395 metres, power 5000 watts.  
47U.—Central Broadcasters' Ltd., Adelaide, wavelength 405 metres, power 5000 watts.  
47W.—Westralian Farmers, Ltd., Perth, wavelength 1250 metres, power 5000 watts.  
48U.—Central Broadcasters' Ltd., Adelaide, wavelength 405 metres, power 5000 watts.  
72L.—Tasmanian Broadcasters, Ltd., Hobart, wavelength 338 metres, 3000 watts.  
1A2.—Associated Radio Co., Ltd., Melbourne, wavelength 484 metres, power 1600 watts.  
3DB.—Drumlight Business and Technical College, Melbourne, wavelength 255 metres, power 500 watts.  
3TZ.—O. J. Nilson & Co., Melbourne, wavelength 319 metres, power 100 watts.  
46R.—Cold Radio Electric Service, Tweedmouth, Queensland, wavelength 324 metres, power 100 watts.  
5KA.—Sport Radio Broadcasting Station, Adelaide, wavelength 250 metres, power 1000 watts.  
4DN.—2DN Pty., Ltd., Adelaide, wavelength 313 metres, 500 watts.

6.45 p.m.—Tune in.  
6.50 p.m.—Musical Evening for the Kiddies, by Aunt Evelyn and Uncles Henry, Leslie, Perry, Duffy, and Rag.  
7.20 p.m.—Stock and Share intelligence. Market Reports, Cables. News by courtesy of "The West Australian" Newspaper Co.  
7.45 p.m.—Talk to Men.  
8 p.m.—Time signal from Perth Observatory.  
8.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.  
POPULAR NIGHT.

8.2 p.m.—Musical programme, including Artists:  
MISS BETH JOHNSTON, Soprano.  
MR. O. GRIPPTIS, Baritone.  
MISS EVELYN WILLIS, A.R.C.M., Pianist.  
9 p.m.—Talk: "Gardening Notes" by MR. E. A. HUGHES, Representing Messrs. Dawson and Harrison.  
9.56 p.m.—Second News Bulletin by courtesy of "The Daily News" Newspaper Company. Ships within range announcement.  
Weather report and forecast.  
10 p.m.—Health talk by MR. H. S. HATTON, of the HATTON School of Physical Culture.  
10.30 p.m.—Close down.

Saturday, May 28  
2FC, SYDNEY.MIDDAY AND AFTERNOON SESSION.  
12 noon—"Big Ben" and programme announcements.

12.30 p.m.—Stock Exchange—First Call.  
12.3 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.  
12.5 p.m.—Studio music.  
12.50 p.m.—Summary of "Sydney Morning Herald" news service and cables. Rugby Wireless News.  
12.55 p.m.—Studio Music.  
12.45 p.m.—A Talk on Gardening by "Bud-gum" (Mr. G. G. Lockley).  
1 p.m.—"Big Ben." Weather intelligence.  
1.3 p.m.—"Evening News" midday news service.  
1.20 p.m.—Studio Music.

Races from Canterbury will be described in the running, direct from the Course, described by the "Race" Commentator.  
Results from the Newcastle Cup meeting and descriptions.

Sporting results of football matches, Soccer, Grade Clubs, and N.S.W. v Czechoslovakia.  
Also the New Wentworth Symphonic Dance Orchestra, under the baton of Mr. Frederick Leighton, will be heard in popular numbers at intervals between 3 p.m. to 5 p.m.  
4.30 p.m.—A complete resume of the day's sporting and racing events.  
6 p.m.—"Big Ben." Close down.

## EARLY EVENING SESSION.

6.45 p.m.—The chime of 2FC.  
6.50 p.m.—The "Hello Man" talks to the children.  
6.55 p.m.—A Serial Story.  
6.40 p.m.—Dinner Music.  
7 p.m.—"Big Ben." Late sporting information.  
7.15 p.m.—Weather intelligence.  
7.15 p.m.—"Evening News" late news service.  
7.35 p.m.—Studio Music.

## NIGHT SESSION.

7.35 p.m.—Programme Announcements.  
7.50 p.m.—From the Studio—Musical items.  
8 p.m.—"Big Ben." Broadcast from the Crystal Palace Theatre, Sydney. Orchestral items. Conductor, Mr. Harry Stone.  
8.10 p.m.—From the Studio—Jones and Rains, Entertainers.  
8.20 p.m.—2FC Dance Band. Conductor, Mr. Eric Pearce.  
8.25 p.m.—From the Crystal Palace Theatre—Sydney—Orchestral items, incidental to the film "The Volga Boatman." The Russian Choir will be heard in the song "The Volga Boatman." Mr. Harold Harris, Bass, and Miss Dorothy Hawtree will sing "Petruška."  
8.40 p.m.—From the Studio—Mr. George Vevers, Harpistone.  
"Shepherd see thy Horses Poising Mane" (Korby).



- 8.14 p.m.—J.P.C. Dance Band.
- 8.40 p.m.—Mr. Wally Rayson, Comedian.
- 8.54 p.m.—Miss Marjory Cole—Soprano—Singing "Gonna Be".
- 9 p.m.—J.P.C. Dance Band.
- 9.4 p.m.—Mr. George Vevers, Baritone—("Adieu" (Madison)).
- 10 ("Far on High the Green Isle O'g Kerry").
- 9.18 p.m.—Mr. Scott Alexander will present the latest of Marvin's "Topical Comedy Radio Shows—Comedy Riddling—"The Abundance of Being Rich." Written specially for BBC, by Collingtree Ltd.
- 9.31 p.m.—Janes and Rufus—Elocutionists.
- 9.40 p.m.—Mr. George Vevers, Baritone—"A Man's Man" (Drama).
- 9.44 p.m.—Broadcast from the Crystal Palace Theatre—Orchestra Solo.
- 9.51 p.m.—Miss Marjory Cole—Soprano.
- 10 p.m.—"Big Ben"—J.P.C. Dance Band.
- 10.10 p.m.—Mr. Wally Rayson, Comedian.
- 10.18 p.m.—Crystal Palace Orchestra.
- 10.25 p.m.—Mr. Wally Rayson, Comedian.
- 10.30 p.m.—Mr. Scott Alexander's And company in an original Radio Show, comedy by Collingtree Ltd, specially written for broadcasting. Entitled "WATCHING WATER'S WASHING." Items: "Wally's Made up Washday" (Elocution); "Character"; "Theodore O'Brien Watch"; Miss Ruth Wilton Musical Watch; (For impromptu husband); "The Best Alexander"; "Wally's Washday"; "Murphy in (In)ferno"; Nibba (His Master's voice).
- 10.50 p.m.—J.P.C. Dance Band.
- 11 p.m.—"Big Ben." Late Sporting News and announcements.
- 11.5 p.m.—J.P.C. Dance Band.
- 12.10 p.m.—Broadcast from the Westworth Road, Sydney—The "Ma" Wally's Radio Music Dance Orchestra, under the baton of Mr. Frederick Leighton.
- 11.15 p.m.—Close down—National Anthem.

**2BL, SYDNEY.**

**Saturday.**

- 12 noon—G.P.O. Clock and chiming.
- 12.1 p.m.—Special Opera Broadcast and Radio report.
- 12.15 p.m.—Medical programme from the Studio.
- 12.30 p.m.—News from the "Ring."
- 12.35 p.m.—Script Notes by Mrs. Justice. Replies to correspondence.
- 12.45 p.m.—Talk on "Dance music for Children," by Mrs. Jordan.
- 1 p.m.—Musical programme from the Studio.
- 1.15 p.m.—Talk on Sporting and Athletic Events for the day. Latest News, Tennis, Football, Snelling, Boxing. During the afternoon sporting information will be furnished by courtesy of the "Sun" Newspapers, interspersed with musical programmes from the Studio.
- During the afternoon the various football matches will be described.
- 4.45 p.m.—Reprise of night's programme.
- 5 p.m.—G.P.O. Clock and chiming.
- 5.1 p.m.—Reprise of Day's music.
- 5.2 p.m.—Close down.

**BABY EVENING SESSION.**

- 6.45 p.m.—G.P.O. Clock and chiming.
- 6.46 p.m.—Uncle George and the Kidnies.
- 6.49 p.m.—Musical programme from the Studio.
- 7.15 p.m.—Recall of all sporting information, including Racing, Tennis, Tennis, Comedian. Athletic, by courtesy of the "Sun."
- 7.31 p.m.—Country news from the "Sun."
- 7.40 p.m.—G.P.O. Clock and chiming.
- 7.45 p.m.—Broadway Tenor Chorus.
- 8 p.m.—Miss Hazel McLeod (Mezzo Soprano).
- 8.10 p.m.—Mr. Douglas Graham (British Comedian).
- 8.17 p.m.—Mr. David Scott (Balladist).
- 8.24 p.m.—King's Mandolin Orchestra.
- 8.31 p.m.—Broadcasting from Maroubra Speedway.

- 8.50 p.m.—Reprise of following day's programme.
- 9 p.m.—G.P.O. Clock and chiming.
- 9.1 p.m.—Miss Hazel McLeod.
- 9.2 p.m.—Broadcasting from Maroubra Speedway.
- 9.28 p.m.—Mr. Douglas Graham.
- 9.39 p.m.—Broadcasting from Maroubra Speedway.
- 9.45 p.m.—Mr. David Scott.
- 9.52 p.m.—Broadcasting from Maroubra Speedway.
- 10 p.m.—G.P.O. Clock and chiming.
- 10.1 p.m.—King's Mandolin Orchestra.
- 10.8 p.m.—Broadcasting from Maroubra Speedway.
- 10.15 p.m.—Ambassador Dance Band.

**3AR, MELBOURNE**

Associated Radio Co.

Wave Length, 484 Metres.

**Saturday.**

**MORNING SESSION.**

- 5.15 a.m.—Selection on the Brunswick Programme.
- 5.45 a.m.—British Official Wireless Programme received from British Wireless Station, England. Express train information. "Sun" news. Meteoric outbreak in S.A.R.
- 12 noon.—Time signal (Chime from G.P.O. Studio Harmonium and Outdoor Thermometer reading). First weather forecast. Events of the day.
- 12.5 p.m.—Musical Selection from the Studio.
- 12.55 p.m.—Local Exchange news. Market reports. Foreign Exchange of the day, compiled by the courtesy of Messrs. Thomas Cook and Son.
- 12.59 p.m.—Musical Selection from the Studio.
- 1.15 p.m.—Mail News. Shipping movements. 1.30 p.m.—Close down.

**AFTERNOON SESSION.**

- 2 p.m.—Description of Federal Health Report from Moonee Valley.
- 2.30 p.m.—Description Highways and Harbours, from Moonee Valley.
- 2.50 p.m.—During the afternoon various football and other sporting events will be announced as they come to hand.

**NEW ZEALAND STATIONS:**

**1YA, Auckland, The Radio Broadcasting Co. of New Zealand, Ltd.**  
Power 500 Watts; Wave-length, 420 Metres. Silent Night, Monday.

**2YK, Wellington, The Radio Broadcasting Co. of New Zealand, Ltd.**  
Power 120 Watts; Wave-length, 295 Metres.

**3YA, Christchurch, The Radio Broadcasting Co. of New Zealand, Ltd.**  
Power 500 Watts; Wave-length, 400 Metres. Silent Night, Thursday.

**4YA, Dunedin, The Radio Broadcasting Co. of New Zealand, Ltd.**  
Power 750 Watts; Wave-length, 390 Metres.

**5YM, The Gisborne Radio Co., Gisborne.**  
Power 50 Watts; Wave-length, 260 Metres.

- 2.55 p.m.—(Studio Orchestra, under the direction of Mr. Ronald Brazerley: "Waltz from the Ballet Garzuchow" (Tschukovsky).
- 2.59 p.m.—Miss Freda Treweek, mezzo-soprano, "Beloved it is Mine" (E. Aylward).
- 3 p.m.—"Country Folk" (May Harbo).
- 3.05 p.m.—Studio Orchestra.
- 3.10 p.m.—Studio Orchestra.
- 3.15 p.m.—Description Fantasy Handicap from Moonee Valley.
- 3.2 p.m.—Mr. Ronald Brazerley, (cello).
- 3.25 p.m.—"The Old Refrains" (Kremler).
- 3.31 p.m.—Studio Orchestra.
- 3.35 p.m.—"Value Notes" (Drigo).
- 3.38 p.m.—Mr. Hugh Ross; "Lil' there say late" (Lone Cain).
- 3.41 p.m.—"Will not give" (Schumann).
- 3.45 p.m.—Description Fantasy Handicap from Moonee Valley.
- 3.50 p.m.—Studio Orchestra.
- 3.55 p.m.—Mr. S. Pettifer, violin.
- 4 p.m.—"Romance No. 1, Concerto" (Wieniawski).
- 4.10 p.m.—Studio Orchestra.
- 4.15 p.m.—Description Fant. from G.P.O. Second world's record.
- 4.18 p.m.—Miss Freda Treweek, mezzo-soprano: "The Little Silver Ring" (Chabinski).
- 4.25 p.m.—Studio Orchestra.
- 4.30 p.m.—"Cassette" (Grove's Mullander).
- 4.35 p.m.—Description of Mt. Alexander Handicap from Moonee Valley.
- 4.41 p.m.—Miss Treweek and Mr. Ross, vocal quartet: "The Rosary" (Ribellett Nervo).
- 4.49 p.m.—Studio Orchestra.
- 4.54 p.m.—"Signal James, No. 1 and 2" (Max-Low-31).
- 5.00 p.m.—Mr. Ross, bass: "Maurousse" (Florentz Aylward).
- 5.04 p.m.—Studio Orchestra.
- 5.10 p.m.—"Selections."
- 5.15 p.m.—Description Felter Handicap from Moonee Valley.
- 5.25 p.m.—Evening Announcement Guide.
- 5.30 p.m.—Time Signal Chime from G.P.O. Close down.

**EARLY EVENING SESSION.**

- 6.45 p.m.—Children's Corner. "Vlad Max."
- EVENING SESSION.**
- 8 p.m.—Time Signal Chime from G.P.O. Studio Harmonium and Outdoor Thermometer reading. British Official Wireless Program. Sporting results. Local news.
  - 8.10 p.m.—Dance Night. The Dance Orchestra relayed from Leggett's Ballroom, French-Lakes music, under the leadership of Mr. Harry Smith.
  - 8.50 p.m.—Week-end Traveller's Information, supplied by courtesy of Victorian Railways Department.
  - 9.10 p.m.—Leggett's Orchestra.
  - 9.20 p.m.—Time Signal Chime from G.P.O. Studio Harmonium and Outdoor Thermometer reading.
  - 9.30 p.m.—Leggett's Orchestra.
  - 9.4 p.m.—Time Signal Chime from G.P.O. Close down.

**4QG, BRISBANE**

Queensland Radio Service

Wave Length, 355 Metres.

**Saturday.**

**NO MIDDAY TRANSMISSION.**

**AFTERNOON SESSION.**

- 1.30 p.m.—Church Service.
- The complete service will be relayed from 12.30. Seventh Day Adventist Church in South Brisbane.
- 2.10 p.m.—FROM THE SEVENTH DAY ADVENTIST CHURCH; Afternoon service.
- 2.30 p.m.—Close Down.

Philips have Visible Charge Indicator.



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MASS production methods made possible by the widespread popularity of EMMCO products have resulted in a substantial reduction in the price of the Australian-made products in comparison with foreign made apparatus of like quality. During the last year the sale of EMMCO parts has reached huge proportions, mainly due to their mechanical and electrical perfection, coupled with the enormous up-to-date factory equipment of Electricity Meter Co. Ltd.

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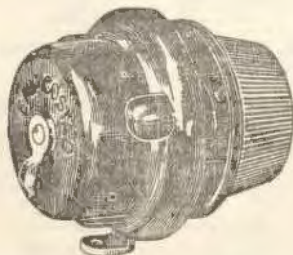
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## 3LO, MELBOURNE.

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

Sunday.

## MORNING SESSION.

- 10.30 a.m.—Bells from St. Paul's Cathedral.  
 10.40 a.m.—Express Train information.  
 British Official Wireless news.  
 11 a.m.—SERVICE FROM THE BAPTIST CHURCH.  
 Preacher: Rev. W. D. Jackson, B.A.  
 Choir Direction: Madame Ella Kingston.  
 Children of the Church's Carlton Sunday School pay their Annual Visit to the Parent Church.  
 Eustach.  
 Call to Worship.  
 Invocation.  
 Lord's Prayer.  
 Hymn, "Let us with a Gladsome Mind."  
 Scripture.  
 Hymn by the Children.  
 Children's Address.  
 Hymn: "Jesus, the Children are Calling."  
 Notice.  
 Offering.  
 Offertory.  
 Prayers.  
 Anthem.  
 Prayer.  
 Hymn, "Brightly Gleams Our Banner."  
 SERMON: "Safeguarding the Bloom of Youth."  
 Hymn, "Oh, Jesus I have promised"  
 Benediction.  
 12.15 p.m.—Close down.

## AFTERNOON SESSION.

- 2.15 p.m.—BRUNSWICK CITY BAND. Band Director: H. E. Owen, Conductor.  
 March, "The Burnt Field" (Greenwood).  
 Overture, "The Great City" (Davison).  
 Selection, "L. Cocciato in Egitto" (Meyerbeer).  
 Hymn, "Hark, Hark, My Soul" (Smart).  
 "Kircherlied" (Hodson).  
 Morceau, "A Night in Switzerland" (Hame).  
 3 p.m.—PIERARTE SUNDAY AFTERNOON. WESLEY CENTRAL MISSION.  
 Chairman: Mr. J. H. Cain.  
 Conductor: Mr. G. M. Williams.  
 Orchestral Selection.  
 Hymn, "Pleasant are Thy Courts Above."  
 Prayer: Rev. G. Ingle Deans.  
 Events, "Tell Me the Old, Old Story."  
 Solo, Miss Hilda Ranganath.  
 Orchestral Selection.  
 Solo, Miss Hilda Ranganath.  
 "Lo, Hear the Gentle Lark" (Bishop).  
 Notice.  
 Offering.  
 Orchestral Selection.  
 ADDRESS: VERY REV. DEAN HART, BISHOP OF WANGARATTA.  
 National Anthem.  
 Benediction.  
 4.30 p.m.—DR. FLOED. Organ Recital, transmitted from St. Paul's Cathedral.  
 "Air from the Water Music" (Handel).  
 "Fugue in D Major" (Bach).  
 "Largo" from the new World Symphony (Dvorak).  
 "Grand Choeur in A" (Salmon).  
 5 p.m.—Close down.

## EVENING SESSION.

- 7.40 p.m.—CHILDREN'S HOUR. Hymns by THE PIED PIPERS:  
 Quirette: "Lead, Kindly Light."  
 Solo: "Beautiful Land of My Dreams."  
 8 p.m.—"BILLY BUNNY"  
 "Frambles for Little People."  
 8.45 p.m.—Musical Programme by "THE PIED PIPERS":  
 Chorus, "A Bird's Question."  
 "The Little Brownies."  
 Organ Solo.  
 Chorus, "The Brown Tarsus."  
 Quirette, "Saviour, Thy Children Keep."  
 Piano Solo.  
 Evening Song, "Cradle Song."

- 8.20 p.m.—Answers to Letters and Birthday Greetings.  
 8.45 p.m.—"BILLY BUNNY":  
 "The Life of Gordon."  
 9.45 p.m.—Bells from St. Paul's Cathedral.

## NIGHT SESSION.

- SERVICE FROM ST. PAUL'S CATHEDRAL. MALVERN TRAMWAYS BAND. Conductor: MR. H. SUTCLIFF.  
 STEPHANIE BRODIE.  
 WESLEY CHURCH CHOIR, and ELSA STRALIA and MAXIM BRODIE.  
 Announcer: MAURICE BUDLEY.  
 Accompanist: GUNDES EARLHINE.  
 9 p.m.—SERVICE FROM ST. PAUL'S CATHEDRAL.  
 Evensong (Choral).  
 Hymn.  
 General.  
 Confession.  
 The Absolution.  
 The Lord's Prayer.  
 Versicles and Responses.  
 Prayers.  
 1st Lesson.  
 Magnificat.  
 2nd Lesson.  
 Nunc Dimittis.  
 The Apostles' Creed.  
 The Collects.  
 Anthem: "Unfold Ye Portals Everlasting with Welcome to Receive Him Ascending on High."—Luther.  
 Prayers.  
 Hymn.  
 SERMON: BY THE ARCHBISHOP OF MELBOURNE.  
 Hymn.  
 Motto, by SIR ROBERT PARRY:  
 "There is a sure belief, that on some solemn shore,  
 Beyond the spheres of Time and Sin, and Fate's control;  
 Some in countless prime of body and of soul,  
 That creed I vain would keep,  
 That hope I'd never forego,  
 Eternal be the sleep  
 If not to waken so."  
 The "Songs of Fenwick" are among the latest, and (it may be added) among the noblest, of the compositions of that prince of choral writers, Sir Hubert Parry. "There is a sure belief," was sung at the Composer's funeral in St. Paul's Cathedral, London, on October 16th, 1918.  
 9.30 p.m.—MALVERN TRAMWAYS BAND: March, "B.B. and G.F." (Haines).  
 Morceau, "Turkish Patrol" (Alphonse).  
 8.37 p.m.—STEPHANIE BRODIE, by permission of J. C. Williams, Ltd.:  
 "The Gloria of Iphigenia in Tauris" (Euripides).  
 "Les Klee" (Le com de Lisle).  
 "The Death of Cuchulain" (Yeats).  
 "The Sands of Dee."  
 8.52 p.m.—WESLEY CHURCH CHOIR:  
 "Send out Thy Light" (Gounod).  
 "Fierce was the wild billow" (Noble).  
 9.20 p.m.—MALVERN TRAMWAYS BAND: Grand Selection, "Palaces" (Lombardelli).  
 9.41 p.m.—ELSA STRALIA AND MAXIM BRODIE:  
 Maxim Brodie:  
 "Spirits Gentle" (Dantoni).  
 "The Far Away Ball" (Gordon).  
 Elsa Stralia:  
 "Aria from 'Il Trovatore' (Verdi).  
 "Bird Song at Eventide" (Coates).  
 Elsa Stralia and Maxim Brodie:  
 "Love Day" (Butterfly).  
 9.51 p.m.—MALVERN TRAMWAYS BAND: Cornet Duet, "Bosses O' the Barn" (Carrie).  
 Bandmen, J. Atway and J. Rhodes.  
 9.52 p.m.—WESLEY CHURCH CHOIR:  
 "Ring out Wild Bells" (Fischer).  
 "Hallel, Breathe an Evening Blessing" (Martini).  
 9.50 p.m.—MALVERN TRAMWAYS BAND: March, "Romance" (Hall).

- 9.12 p.m.—"Argus" news service. British Official Wireless news.  
 Meteorological information. Announcements.  
 9.50 p.m.—MALVERN TRAMWAYS BAND: Descriptive, "In a Persian Market" (Kretzsch).  
 9.50 p.m.—OUR GREAT THOUGHT:  
 "Remember this, that, have to a proper dignity and preparation to be observed in the performance of every act of life."  
 Marcus Aurelius.  
 10 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Sunday.

## MORNING SESSION.

- 11 a.m.—Morning service from Independent Church, Collins-street. Preacher, Rev. J. Ernest James.  
 Hymn.  
 Prayer and Lord's Prayer.  
 Hymn.  
 Solo.  
 Prayer.  
 Announcements.  
 Offering.  
 Anthem, "Come, Holy Ghost" (Attwood).  
 Hymn.  
 Sermon, Rev. J. Ernest James.  
 Hymn.  
 Benediction.

## AFTERNOON SESSION.

- 2 p.m.—Miss Elma Armstead, soprano:  
 "Magdalen at Michael's Gate" (Lehmann).  
 "The Valley of Laughter" (Sanderson).  
 3.7 p.m.—Mr. Eric J. Wood, baritone:  
 "The Lost Chord" (Sullivan).  
 "Garden of Happiness" (Wood).  
 3.14 p.m.—Miss Mina Wilkey, contralto:  
 "Songs My Mother Taught Me" (Dvorak).  
 "I Hear a Thrush at Eve" (Cudman).  
 3.22 p.m.—Mr. Herb. Williams, piano:  
 "Nocturne in Flat" (Opferwald).  
 3.28 p.m.—Signor Bruno Zetti, tenor:  
 "La Partida" (Alvarez).  
 "Birds' song at Eventide" (Coates).  
 3.36 p.m.—Miss Margaret Rogan, soprano:  
 "Birds of the Valley" (Forrester).  
 "Cuckoo Calls" (Fischer).  
 3.42 p.m.—Mr. E. Sinclair, electrician:  
 "The Whited Man I know" (Hayes).  
 "Not Understood" (Bracken).  
 3.49 p.m.—Miss Elma Armstead, soprano:  
 "Piper Jone" (Curee).  
 "Damon" (Strange).  
 3.54 p.m.—Mr. Eric J. Wood, baritone:  
 "Deep in my heart a lute lay hid" (Alyward).  
 "Lead, Kindly Light" (Evans).  
 4.8 p.m.—Miss Mina Wilkey, contralto:  
 "At Joy Be Thine" (Sanderson).  
 "Bring low, sweet chariot" (Burleigh).  
 4.10 p.m.—Mr. Herb. Williams, piano:  
 "Suite de Concert" (Columbia Taylor).  
 4.17 p.m.—Signor Bruno Zetti, tenor:  
 "Anseres" (Ascherberg).  
 "Had you but known" (Donza).  
 4.24 p.m.—Miss Margaret Rogan, soprano:  
 "Pork Maria" (McNary).  
 "Ave Maria" (Mollard).  
 4.30 p.m.—Close down.  
 4.35 p.m.—EARLY EVENING SESSION.  
 6.45 p.m.—Children's Corner—Ladylid.

## EVENING SESSION.

- 7 p.m.—Evening service from Cairns Memorial Church, East Melbourne. Preacher, Rev. H. Dobb, B.A., B.D. Subject, "The last twenty-five years of religious experience."  
 Organ Voluntary:  
 "Larghetto" (Wesley).  
 "Improvvisato" (Farler).  
 "Allegro Schopenhauer" (Salome).  
 Anthem—Quirette:  
 "These eternal banners" (Barber).  
 "Comes at times a stillness" (Woodward).  
 Sanctus from "Tannhauser" (Wagner).

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ARKS 4. A.

# Monday, May 30

## 2FC, SYDNEY.

## MIDDAY SESSION.

- 12 noon.—"Big Ben" and Programme announcements.  
 12.2 p.m.—Stock Exchange, first call.  
 12.3 p.m.—Official weather forecast, rainfall, temperature, astronomical observations, shipping intelligence, mail services.  
 12.5 p.m.—Studio music.  
 12.10 p.m.—Summary of "Sydney Morning Herald" news service, and cables.  
 12.15 p.m.—"Wireless News."  
 12.25 p.m.—A Talk by the ZFC Racing Commissioner.  
 12.40 p.m.—Studio music.  
 1 p.m.—"Big Ben." Weather intelligence.  
 1.3 p.m.—"Evening News" midday news service.  
 Producers' Distributing Society's Report.  
 1.20 p.m.—Studio music.  
 1.28 p.m.—Stock Exchange, second call.  
 1.36 p.m.—Marching music for the school children.  
 1.40 p.m.—Studio music.  
 1.45 p.m.—"Big Ben." Close down.

## AFTERNOON SESSION.

- 3 p.m.—"Big Ben" and programme announcements.  
 3.5 p.m.—The final act of the Radio Play: "The Young Person in Pink," written by Codrington Hall and produced by Scott Alexander.  
 3.56 p.m.—Marching music for the school children.  
 3.40 p.m.—From Farmer's Tea Rooms: Miss Muriel Humphries, contralto: "I Love Your Eyes of Gray" (Woods).  
 3.45 p.m.—From the Studio: Miss Irene Duncan, soprano: "Oh for the wings of a Swallow" (Lohr).  
 3.50 p.m.—Studio music.  
 4 p.m.—"Big Ben."  
 FROM FARMER'S TEA ROOMS: Miss Joyce Gillespie, soprano: "A Heart That's Free" (Robyn).  
 4.5 p.m.—From the Studio: Miss Irene Duncan, soprano: "Little Coat of Gossamer" (Maxwell).  
 4.10 p.m.—Studio music.  
 4.20 p.m.—From Farmer's Tea Rooms: Miss Muriel Humphries, contralto: "Just Awaiting for You" (Bond).  
 4.25 p.m.—From the Studio: Musical items.  
 4.35 p.m.—Reproductions on the "Behning" player piano.  
 4.40 p.m.—From Farmer's Tea Rooms: Miss Joyce Gillespie, soprano: "What a Wonderful World it would be" (Lohr).  
 4.45 p.m.—From the Studio: Stock Exchange, third call.  
 4.47 p.m.—Studio music.  
 5 p.m.—"Big Ben." Close down.

## EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of 2FC.  
 5.50 p.m.—The "Hello Man" talks to the children.  
 6.15 p.m.—Songs for the children by Miss Bonnie Buckingham.  
 6.30 p.m.—A Serial Story.  
 6.40 p.m.—Dinnee music.  
 7 p.m.—"Big Ben." Late sporting news.  
 7.10 p.m.—Daily's Market Reports (wheat, wheat, stock).  
 7.18 p.m.—Fruit and Vegetable markets.  
 7.20 p.m.—Weather and shipping intelligence.  
 Stock Exchange.  
 7.25 p.m.—Late "Evening News" news service.

## NIGHT SESSION.

- 7.45 p.m.—Chimes of 2FC and announcements.  
 7.50 p.m.—Studio items.  
 8 p.m.—BROADCAST FROM THE HAYMARKET THEATRE, STONKY.  
 Items by the Operatic Orchestra under the baton of Mr. Stanley Porter.  
 8.10 p.m.—FROM THE STUDIO: Win and Winnie, English entertainers; Dust, "I Want to be Popular" (Jones).

Hymns:  
 "Hark, hark my soul" (Faker).  
 "The sands of time" (Cousins).  
 "Love Divine, all loves excelling" (Weeley).  
 "How may He who from the dead" (Neuton).

- Lord's Prayer chant (Stainer).  
 Amen chant (Stainer).  
 8.30 p.m.—Miss Marion Daniels, contralto:  
 "Lackaday" (Crompton).  
 "Mighty lak a rose" (Nevin).  
 8.37 p.m.—Mr. Tom Henderson, baritone:  
 "One of the sands" (Fisher).  
 "Youth" (Allison).  
 8.44 p.m.—Miss St. Claire, entertainer:  
 "Stretch-Memories" (Sutro).  
 8.51 p.m.—Miss Jean Kinross, soprano:  
 "O, rest in the Lord" (Mendelssohn).  
 "He was despised" (Haged).  
 8.58 p.m.—Mr. Percy Blundell, tenor:  
 "Nirvana" (Adams).  
 "I will await thee" (Con. Clarke).  
 9.5 p.m.—Miss Florrie Maris, piano:  
 "Hiss" second rhapsody.  
 9.16 p.m.—Miss Marion Daniels, contralto:  
 "June brought the roses" (Openshaw).  
 "Trees" (Raebuch).  
 9.23 p.m.—Mr. Tom Henderson, baritone:  
 "Ten Ways" (Sanderson).  
 "The Carpet" (Sanderson).  
 9.28 p.m.—Miss St. Claire, entertainer:  
 Monologue, "Buying a Hat" (Pinks).  
 9.36 p.m.—Miss Jean Kinross, soprano:  
 "Still as the Night" (Bohm).  
 "The Dawn" (D'Hardello).  
 9.43 p.m.—Mr. Percy Blundell, tenor:  
 "When it's evening in the Valley" (Meale).  
 "Marie, my girl" (Aitken).  
 9.50 p.m.—"Age" news bulletin.  
 9.55 p.m.—Close down.

## 4QG, BRISBANE.

Sunday.

## MORNING SESSION.

## ANN STREET CHURCH.

The complete Service will be relayed from the Ann Street Presbyterian Church.  
 11 a.m.—Organ solo, "Adagio" (Liszt). Mr. A. Day; dogology, "Praise God from Whom All Blessings Flow"; invocation and Lord's Prayer; Scripture sentences; hymn 573, "We Love Thee, O God," intimation and offering; organ solo "Postlude" (Godard). Mr. A. Day; contralto solo, selected, Miss Marie Aitchison; trio, "Lift Thine Eyes" (Ellis); soprano solo, selected, Miss Nancy Mulholland; Serenades and prayer; hymn 314, "Jerusalem the Golden"; children's address, Rev. J. Cook; children's hymn 569, "The World Looks Very Beautiful"; address, "The Mysteries of the Kingdom of Heaven"; hymn 481, "Great God, We Sing"; Benediction; "Aliccio Sonata No. 1" (Mendelssohn).

## AFTERNOON SESSION.

## BAND CONCERT.

The test of the "A" grade bands, which will be held in the Brisbane Botanic Gardens under the auspices of the Queensland Band Association, will be relayed.  
 The main "A" grade bands which are capable of playing in the gardens will compete in the test, and their efforts, together with the remarks of the adjudicator, will be broadcast.  
 All the conclusion of the test, matted band selections will be played.

- 3.18 p.m.—Band test.  
 4.30 to 5 p.m.—Close down.

## NIGHT SESSION.

## ANN STREET CHURCH.

The complete Evening Service will be relayed from the Ann Street Presbyterian Church.  
 7 p.m.—Organ recital by Mr. A. Day, E.T.C.L.—(a) "Sonata No. 18—Finale" (Rivlinberger), (b) "La Pennee d'Autoume" (Gauguin), (c) "Invocation in B-Flat" (Guldsmant).  
 7.18 p.m.—Children's story, "The Man in the Moon"; children's hymn, 549, "One is Kind Above All Others."

7.30 p.m.—Invocation and Lord's Prayer; hymn 302, "The God of Abraham Praise"; intimation and offering; (a) organ solo, "The Answer", (b) soprano solo, selected, Miss Beatrice Pugh, (c) "Break Forth into Joy," (d) bass solo, selected, Mr. J. England; prayer hymn; hymn 525, "Peace, Perfect Peace"; sermon, "The World's Debt to Israel"; hymn 371, "The Day Thou Givest"; Benediction; Vesper hymn; Postlude (Henry Smart).

## BAND CONCERT.

At the conclusion of the Church Service, the concert provided by the Brisbane Municipal Concert Band (conductor, Mr. E. Jackson) will be relayed from Wilhelm Park. The programme will include: Overture, "The Arcadians" (Wood); selection from "Ernan" (Verdi); suite from "The Swan Lake" (Tchakowsky).

## SPECIAL SESSION.

At the conclusion of the Band Concert a Special Vocal Recital will be provided by Professor Ethel. Mr. Luis Zamato Pares (soprano) and Miss Gertrude Anderson will assist.

## FROM THE STUDIO:

- 8.30 p.m.—Vocal Recital.  
 10.30 p.m.—Close down.

## 5CL, ADELAIDE.

Sunday

## MORNING SESSION.

- 11 a.m.—G.P.O. chimes.  
 11.1 a.m.—Relay from St. Peter's Cathedral.

## EVENING SESSION.

- 6.50 p.m.—G.P.O. chimes.  
 6.51 p.m.—Sunday stories for the children.  
 7 p.m.—Relay from Pirie Street Methodist Church.  
 8.10 p.m.—Selection, Venetian Trio.  
 8.20 p.m.—Part song, Slow Memorial Church Choir (49 performers).  
 8.25 p.m.—Tenor solo, Mr. Keith Clark.  
 8.30 p.m.—Talk by the Rev. Dr. Wright, of the Slow Memorial Church.  
 8.45 p.m.—Venetian Trio.  
 8.56 p.m.—Bass solo, Mr. Cyril Bradley.  
 9 p.m.—E.P.O. chimes.  
 9.1 p.m.—Weather.  
 9.3 p.m.—Mr. L. H. Nicholls, "Florence Nightingale."  
 9.18 p.m.—Venetian Trio.  
 9.28 p.m.—Part song, Slow Memorial Church Choir.  
 9.53 p.m.—Venetian Trio.  
 9.48 p.m.—Tenor solo, Mr. Keith Clark.  
 9.57 p.m.—Bass solo, Mr. Cyril Bradley.  
 10 p.m.—G.P.O. chimes and close down.

## 6WF, PERTH.

Sunday.

- 10.45 a.m.—Tune in.  
 11 a.m.—Morning service relayed from the Wesley Church, Hay-street, Perth. Preacher, Rev. J. W. Grove, M.A., L.L.B.  
 2.10 p.m.—Tune in.  
 2.35 p.m.—Lieut.-Col. Le Souef will speak on "The Acclimatisation of Birds and Animals."  
 3.20 p.m.—R.S.L. Band and Vocal Concert relayed from the Zoological Gardens, South Perth. Deputy conductor, Lieutenant E. R. Williams.  
 5 p.m.—Close down.  
 7 p.m.—Tune in.  
 7.5 p.m.—Children's bedtime stories.  
 7.40 p.m.—Evening service relayed from St. Andrew's Presbyterian Church, St. George's Terrace, Perth. Preacher, Rev. Geo. Tulloch.  
 8.45 p.m.—From the Studio:  
 Concert by the Perth City Band, Conductor, Mr. W. A. Halverson.



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## 2GB, SYDNEY

Monday.

## MORNING SESSION.

8.35 p.m.—Miss Margaret James, soprano: "The Laughing Brook" (Harbach).  
 8.49 p.m.—Mr. Ad. Cree, Scotch comedian.  
 9.25 p.m.—Broadcast from the Baptist School Hall: Items by the Sydney Harmonic Society's Choir under the baton of Mr. William Bourne:

(a) Male Chorus, "When Evening's Twilight" (Hutton).  
 (b) Part Song, "The Dance" (Elgar).  
 (c) Ladies' Chorus, "Whither" (MacGunn).  
 (d) "Softly the Moonlight" (Liftie).  
 9.42 p.m.—From the Studio: Win and Windle, entertainers: "The Silent Wife" (Win).  
 9.49 p.m.—Mr. E. P. Kerry, cornet solo: "Robin Adair" (Hargmann).  
 9 p.m.—"Big Ben."

Miss Margaret James, soprano:  
 (a) "A Song Remembered" (Coates).  
 (b) "Over the Meadow" (Carson).  
 9.5 p.m.—Mr. Ad. Cree, Scotch comedian.  
 9.16 p.m.—Broadcast from the Baptist School Hall: Items by the Sydney Harmonic Society's Choir under the baton of Mr. William Bourne:

(a) Double quartette, "Sleep, Gentle Lady" (Pisnuti).  
 (b) Part song, "The Song of the Vikings" (Fauling).  
 (c) Chorus, "Be Not Afraid" (Mendelssohn).

9.30 p.m.—From the Studio: Win and Windle, entertainers: "It Might have been a Comedy Drama" (Win).  
 9.42 p.m.—BROADCAST FROM THE HAY-MARKET THEATRE, SYDNEY:

Orchestral Items.  
 9.52 p.m.—From the Studio: Miss Margaret James, soprano: "Oh Tell me, Nightingale" (Lehmann).  
 9.56 p.m.—Mr. E. P. Kerry, cornet solo: "Neath Austral Skies" (Cade).  
 10.5 p.m.—Mr. Ad. Cree, Scotch comedian.  
 10.10 p.m.—Broadcast from the Haymarket Theatre, Sydney: Orchestral Items.  
 10.30 p.m.—Broadcast from the Westworth Hotel, Sydney: The New Westworth Symphonic Dance Orchestra under the baton of Mr. Frederick Leighton.  
 10.40 p.m.—Celebrity records.  
 10.49 p.m.—Late news and announcements.  
 10.50 p.m.—Broadcast from the Westworth Hotel, Sydney:  
 Dance Music until 11 o'clock.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY.

Monday.

## DAY SESSION.

Descriptions of each race at the Epping Trots, broadcast direct from the racecourse.  
 12 noon.—G.P.O. clock and chimes.  
 12.11 p.m.—Special ocean forecast and weather report.  
 12.3 p.m.—Musical programme from the Studio.  
 12.13 p.m.—Information: Mails and shipping and movement of important ships.  
 12.16 p.m.—Sydney Stock Exchange cable.  
 12.18 p.m.—Hints in call by wireless.  
 12.20 p.m.—Fruit market report.  
 12.21 p.m.—Vegetable market report.  
 12.22 p.m.—London metal market report.  
 12.24 p.m.—Dairy and farm produce market report.  
 12.27 p.m.—Racing resume.  
 12.30 p.m.—G.P.O. clock and chimes.  
 12.31 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Sporting information ("Sun").  
 12.45 p.m.—Hillier's Instrumental Quartet—Direction, Carl Gusting; 1st violin, Miss Vera Wareham; obligato violin, Mr. Jack West; cello, Miss Daisy Nixton.

1.30 p.m.—G.P.O. clock and chimes.  
 1.51 p.m.—News from the "Sun."  
 2.05 p.m.—Musical programme from the Studio.

1.30 p.m.—Sydney Stock Exchange reports.  
 2.53 p.m.—News from the "Sun."  
 3 p.m.—G.P.O. clock and chimes.  
 Racing information broadcast immediately after each race, by courtesy of the "Sun."  
 2.1 p.m.—Talk to children and special entertainment for children in hospital.  
 2.30 p.m.—Talk on "Hockey," by Miss Gwen Vreley, Broadcasters' women's sports authority.  
 Social Notes—Replies to correspondents by Mrs. Jordan.  
 Talk on "Preserves and Pickles," by Mrs. Jordan.

3 p.m.—G.P.O. clock and chimes.  
 3.11 p.m.—News from the "Sun."  
 3.15 p.m.—Musical programme from the Studio.  
 3.30 p.m.—G.P.O. clock and chimes.  
 3.31 p.m.—Talk on "The Grand Opera," illustrated by H.M.V. records.  
 3.56 p.m.—News from the "Sun."  
 4 p.m.—G.P.O. clock and chimes.  
 4.10 p.m.—Musical programme from the Studio.  
 4.10 p.m.—Serial story.  
 4.30 p.m.—G.P.O. clock and chimes.  
 4.32 p.m.—Musical programme from the Studio.  
 4.51 p.m.—News from the "Sun."  
 4.59 p.m.—Racing resume.  
 4.52 p.m.—Producers' Distributing Society's fruit and vegetable market report.  
 4.54 p.m.—Resume of night's programme.  
 4.56 p.m.—Announcements.  
 4.58 p.m.—Special ocean forecast.  
 5 p.m.—G.P.O. clock and chimes.  
 Close down.

## EARLY EVENING SESSION

5.45 p.m.—G.P.O. clock and chimes.  
 5.49 p.m.—Daddy Langens and his kiddies.  
 6.40 p.m.—Musical programme from the Studio.

## SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. clock and chimes.  
 Australian Mercantile, Land and Finance Co.'s report.  
 Weather report and forecast, by courtesy of Government Meteorologist.  
 Producers' Distributing Society's fruit and vegetable market report.  
 Stock Exchange reports.  
 Grain and fodder report ("Sun").  
 Dairy Produce report ("Sun").  
 7.10 p.m.—Country news from the "Sun."

## EVENING SESSION.

8 p.m.—G.P.O. clock and chimes.  
 Broadcasters' Topical Chorus.  
 8.3 p.m.—Newtown Band, broadcast from Industrial Hall, Newtown.  
 8.23 p.m.—Miss Maudie Barnett, contralto.  
 8.30 p.m.—A comedy sketch presented by the Players' Club, under the direction of Mr. J. N. Shield.  
 8.50 p.m.—Mr. Tom Arnold, comedian.  
 8.57 p.m.—Resume of following day's programme.  
 9 p.m.—G.P.O. clock and chimes.  
 Weather report and forecast by courtesy of Mr. C. J. Mason, Government Meteorologist.  
 9.2 p.m.—Newtown Band.  
 9.24 p.m.—Broadcasters' all-sports expert will talk on general sporting.  
 9.37 p.m.—Walter George's Smart Set Show.  
 10.37 p.m.—Miss Maudie Barnett.  
 10.43 p.m.—News Items by courtesy of the "Sun" Newspapers.  
 10.50 p.m.—Mr. Tom Arnold.  
 11 p.m.—G.P.O. clock and chimes.  
 National Anthem.

Monday.

## MORNING SESSION.

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

## AFTERNOON SESSION.

2.30 p.m.—Music.  
 3.31 p.m.—Mr. Walter Hunt.  
 3.35 p.m.—Music.  
 4.1 p.m.—Talk.  
 4.25 p.m.—Music.  
 4.30 p.m.—Close down.

## EVENING SESSION.

6.30 p.m.—CHILDREN'S SESSION, by Miss I. Barnes.  
 7 p.m.—Music from the Studio.  
 7.5 p.m.—Talk.  
 7.13 p.m.—Music.  
 7.20 p.m.—Talk.  
 7.30 p.m.—Music.  
 7.55 p.m.—Songs: MISS ETHEL FRANCIS: "Where the Bee Sucks" (Dr. Arne).  
 "The Bells of Ateravey" (Welsh Air).  
 5.6 p.m.—Address by Professor Ernest Wood.  
 8.20 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK.  
 5.30 p.m.—Musical Monologues; J. K. POWELL.  
 8.40 p.m.—Sonata for Piano and Violin (Cesar Franck).  
 MONICA BOKER, ADA BROOK.  
 9 p.m.—Topical Talk.  
 9.15 p.m.—Songs, MISS ETHEL FRANCIS: "Sing Yeous Bird."  
 "Sing Merrily, Yeoways" (Montague Phillips).  
 9.23 p.m.—Gallo Solos: MURIELLE LANG.  
 9.34 p.m.—Musical Monologues; J. K. POWELL.  
 9.37 p.m.—Instrumental Trio: DAN SCULLY, MURIELLE LANG, ADA BROOK.  
 9.43 p.m.—"Cheerio" Talk.  
 10 p.m.—Close down.

## 3LO, MELBOURNE.

Monday

## MIDDAY SESSION.

THE STUDIO ORCHESTRA.  
 JOE BRENNAN and IDA NEWTON  
 TAMA TIRNAN  
 FREDERICK GEORGE  
 MAXWELL CAREW.  
 IAN JAMES and DOBIE WOLFE.  
 GREGORY ROXBURGH.  
 Announcer: MAURICE DUDLEY.  
 Accompanist: AGNES FORTUNE  
 "VARIATION."  
 12 noon.—Time Signal, British Official news, from Rugby; Reuters's and The Australian Press Association Cables, "Argos" and "Herald" News Service.  
 12.20 p.m.—JOE BRENNAN and IDA NEWTON:  
 Dance Song, "I Don't Want to Go."  
 "Never Ask a Woman Her Age."  
 12.30 p.m.—STUDIO ORCHESTRA:  
 Selection, "The Dollar Princess" (Talk).  
 12.40 p.m.—Stock Exchange information.  
 12.43 p.m.—TAMA TIRNAN, Gello:  
 "Soures" (Hauled).  
 "Serrande" (Wider).  
 12.50 p.m.—FREDERICK GEORGE, Baritone:  
 "Gull you know me callin'."  
 "Who knows."  
 12.57 p.m.—STUDIO ORCHESTRA:  
 Overture, "Light Cavalry" (Foppe).  
 1 p.m.—MAXWELL CAREW, Comedian:  
 "Machinon."  
 "How do you shoote do" (Original).  
 1.14 p.m.—Meteorological information, Shipping intelligence, Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast, River reports.



# Brown

The perfect  
Loud Speaker



Type H3.

Height, 15 inches.  
2,000 Ohms.

£4/2/6

Type H3 embodies all the well-known Brown features. Although only 15 inches high, it gives the same superb tone as the larger H1, and is equally clear on speech and music. No other Speaker on the market within several pounds of its price can give such a fine volume as the H3.



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Illustrated Catalogue. OBTAINABLE FROM ALL RADIO DEALERS.

## Do You Know How Sound Waves are Produced?

Sounds from the Gramophone are produced by the point of the needle riding in the groove of the record transmitting the vibrations, which are set up in the mica diaphragm of the sound box. As the mica diaphragm vibrates, in it produces sound waves, which are conducted through a tapered horn, thereby being greatly amplified. This mica diaphragm is connected to the centre bar—at the end of which is the needle—at its exact center. Thus, when the mica diaphragm vibrates, it does so from its centre outwards. If it were coupled in two places, or if two needles were used simultaneously, its flat surface would be distorted and would be unable to reproduce sound waves true to life.

## The Gramophone Sound Box Principle.

This "centre pull" principle is incorporated in the Brown Loud Speaker—and used in this form appears in no other Loud Speaker in the world—the reproducer consists of a cone-shaped aluminium diaphragm anchored at its exact centre to the end of a vibratory reed. This reed is attracted and made to vibrate over a wide range of harmonics (from 100 per second to 3000 per second in ordinary speech) by the current which passes through the coils in the end of the magnet above it.

The Brown Loud Speaker has acquired an exceptional reputation on account of the purity of its tone and its remarkable volume. The tuned-reed method of construction permits a much more faithful rendering of both the high and the low notes, with an entire absence of the distortions often attributed to Loud Speakers.

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MR. JOHN SCOTT TAGGART

# Radio Revolutionised

## NEW ERA OPENS!

Mr. John Scott Taggart, F.I.P., A.M.I.E.E., world famous British Radio Engineer, when introducing his new Elstree-Six Model, struck the title "Radio Revolutionised".

"... Intense Research has produced a distance and selectivity hitherto undreamed of and rendered tens of thousands obsolete."

We are staking our reputation on the new receivers. There is not a designer or writer of this journal who realises that a profound change has taken place, that a new page has been in the history of wireless reception."

*Modern Wireless, September, 1926*



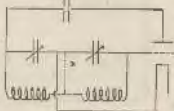
MR. JOHN SCOTT TAGGART

The profound change of standards referred to by the famous British inventor in his sensational pronouncement is embodied in the two following new designs:

### The Udisco Super-Neutrodyne



FUNDAMENTAL  
CIRCUIT  
Udisco  
Super-Neutrodyne.



Original Filament Connection

Australian Patent No.  
20,462-24, granted Nov.  
24, 1922  
U.S. Patent No.  
(A.S.P.V.), granted Dec.  
14, 1925  
British Patent pending



The Fundamental Circuit  
contains the Super

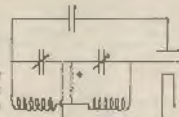
Sets is essentially identical, as is clearly  
indicated by the wiring diagrams:



### The Elstree-Six



FUNDAMENTAL  
CIRCUIT  
Elstree-Six



100,000 Ohm Resistor connected to Filament

Published in  
"Modern Wireless"  
June, 1926

← COMPARE THESE →

From this it will be seen that the Patents on all receivers embodying the new technique which, according to the famous British inventor, Mr. J. Scott Taggart, renders tens of thousands obsolete are the invention of a brilliant Australian engineer, and are the property of an Australian Company.

# THE NEW UDISCO SUPER-NEUTRODYNE

The last word in Selectivity, Range, Volume and Tone ready for delivery in 4, 5, 6, and 8 Valve Sets.  
Reasonable and Competitive Prices. Deferred Terms. Full Particulars from and Demonstrations at

**UNITED DISTRIBUTORS LIMED 72 CLARENCE STREET or 28 MARTIN PLACE SYDNEY**

- 1.30 p.m.—STUDIO ORCHESTRA:  
"Second New Sullivan Selection."  
1.39 p.m.—LEW JAMES AND DODIE  
WOLFE:  
"Jewvarious."  
"She's only been with us a Week."  
1.40 p.m.—DOROTHY ROUBURGH, Viola:  
"Sicilian" (D'Amico).  
1.47 p.m.—FREDERICK GEORGE, Tenor:  
"Yvonne."  
"When Song is Sweet."  
1.54 p.m.—STUDIO ORCHESTRA:  
"Domestic Musicals" (Schubert).  
2 p.m.—Close down.

## AFTERNOON SESSION.

- Speakers:  
MRS. DOROTHY SILK.  
MISS FLORA PELL.  
Artists:  
O'MARA AND BURKE.  
WALTER SMITH.  
JESSIE SMITH.  
C. RICHARD CHUGG, and  
LEE WHITE and CLAY SMITH.  
THE STUDIO ORCHESTRA.  
Announcer..... MAURICE HUDLEY  
Accompanist..... AGNES FORTUNE  
"DOMESTIC ECONOMY" (Gennet).  
1 p.m.—STUDIO ORCHESTRA:  
Selection, "Fauz" (Gennet).  
1.10 p.m.—MRS. DOROTHY SILK will speak  
on "Homecraft."  
1.25 p.m.—O'MARA AND BURKE, Entee-  
tainers from the Emerald Isle  
"Selections from Old Time Music Hall  
Songs."  
1.31 p.m.—STUDIO ORCHESTRA:  
"Fingal's Cave" (Mendelssohn).  
1.42 p.m.—WALTER SMITH, Cornet:  
"Castles in the Air."  
1.50 p.m.—LEE WHITE and CLAY SMITH  
will entertain you with Selections from their  
repertoire.  
2 p.m.—STUDIO ORCHESTRA:  
Selection, "The Chocolate Soldier."  
4.1 p.m.—JESSIE SMITH, Contralto:  
"Sylvia" (Spitta).  
"If" (Val. Phillip).  
4.14 p.m.—C. RICHARD CHUGG, Flute:  
"La Flute de Pan" (Paul Wachs).  
4.20 p.m.—JESSIE SMITH, Contralto:  
"Baby Com' Goodnight" (Grimmes).  
"Sometimes in My Dreams" (D'Handicott).  
4.27 p.m.—MISS FLORA PELL, Inspector of  
Schools:  
"Domestic Economy."  
4.45 p.m.—"Herald" news service. Stock  
Exchange information.  
8 p.m.—Close down.

## EVENING SESSION.

## CHILDREN'S HOUR.

- Storyteller, "LITTLE MISS KOOKAIBURRA"  
JESSIE SMITH.  
5.40 p.m.—Answers to Letters and Birthday  
Greetings.  
5.55 p.m.—JESSIE SMITH, Contralto:  
"Pat 'n' Nellie."  
"Big Lady Moon."  
6.2 p.m.—"LITTLE MISS KOOKAIBURRA"  
wants to tell you about "Foxy," who goes  
to seek his fortune, and how he does it.  
6.32 p.m.—JESSIE SMITH, Contralto:  
"Baby Betty's Lullaby."  
"I'm along!" for you.  
6.50 p.m.—"LITTLE MISS KOOKAIBURRA"  
will give the next instalment of  
"The Cruise of The Savy Jane."  
6.55 p.m.—"Argos" news service. "Herald"  
news service. Weather synopsis. Ship-  
ping movement.  
6.57 p.m.—Stock Exchange information.  
7.02 p.m.—Fish Market reports by J. R. Nor-  
ratt, Ltd. Rabbit prices.  
7.55 p.m.—River reports.  
7.59 p.m.—River reports by the Victorian  
Producers' Co-operative Co. Ltd. New-  
market Sheep sales. Poultry, Grain, Hay,  
Chaff, Straw, Jute, Dairy Produce, Potatoes  
and Onions.  
7.59 p.m.—Fruit Market reports by the Vic-  
torian Wholesale Fruitgrows' Association,  
compiled by the "Fruit Weekly," exclusiv-  
ely for R.O.

## NIGHT SESSION

- Speakers:  
REV. H. R. ONIANS.  
DR. BROOKE NICHOLLS.  
MR. S. A. COOK.  
Artist:  
JOE BRENNAN AND IDA NEWTON  
VICTOR GOURIET.  
"THE PUT-PUTS" and  
LEE WHITE and CLAY SMITH.  
MELBOURNE UNIVERSITY  
CONSERVATORIUM.  
COBURG CITY BAND.  
Announcer..... ALFRED ANDREW  
Accompanist..... AGNES FORTUNE  
"Music should strike fire from the heart  
of man, and bring tears from the eyes of  
woman."—Beethoven.  
7.45 p.m.—Under the auspices of the Boy  
Scouts' Association, REV. H. R. ONIANS:  
"Scout Stamina."  
7.50 p.m.—DR. BROOKE NICHOLLS:  
"Homeward Bound."  
7.55 p.m.—Under the auspices of the Depart-  
ment of Agriculture, MR. S. A. COOK.  
Circumlocution:  
"Drainage for Citrus Soils."  
8 p.m.—COBURG CITY BAND, Conductor:  
Mr. T. B. Dawson.  
March, "Wingates" (Greenwood).  
Cornet Solo, "Beneath Thy Window"  
(De Capual).  
8.10 p.m.—JOE BRENNAN AND IDA  
NEWTON:  
"Waiting for a Bus."  
"It Isn't Love—it's Ecstasy."  
8.25 p.m.—COBURG CITY BAND:  
Soloist:  
2.25 p.m.—VICTOR GOURIET will entertain  
you with  
"Musical Comedy Memories."  
8.30 p.m.—COBURG CITY BAND:  
Quartette:  
"Mare" (Richardson).  
"Forester, sound the Cheerful Horn."  
(Bishop).  
8.45 p.m.—LEE WHITE and CLAY SMITH  
will entertain you with  
Selections from the Mel. Repertoire.  
8.47 p.m.—Announcements.  
9 p.m.—MUSICAL PROGRAMME, arranged by  
the UNIVERSITY CONSERVATORIUM,  
under the direction of PROF. BRUNNARD  
HENZEL.  
EDWARD GOLL, Pianist.  
LUIE HATTENRACE, Cellist.  
LILLIAN GEORGE, Vocalist.  
Solo:  
"Minuetto in G" (Beethoven).  
"Folk Song" (Mendelssohn).  
"Scherzo in E Minor" (Mendelssohn).  
"Old Musical Box" (Gossett).  
"Mazurka" (Sikow).  
"Campanella" (Liszt).  
Vocal—  
"In Summer Fields" (Brahms).  
"In the Month of May" (Franz).  
"Glee."  
"Kul-Ned" (Bruch).  
"Vocal."  
"Aradia's Garden" (Perry).  
"Prelude."  
"Ave Maria" (Schubert).  
"Lullaby" (Hattenrath).  
"Scherzo" (Van Genn).  
9.45 p.m.—ROYAL AUTOMOBILE CLUB OF  
VICTORIA'S SAFETY MESSAGE:  
MOTORMEN: "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."  
9.47 p.m.—COBURG CITY BAND.  
Humorous Sketch, "The Hacking Bee."  
March, "Marine Artillery" (Blomser).  
9.57 p.m.—Meteorological information and  
announcements.  
10.2 p.m.—"THE PUPPETEERS" present their  
Radio Revue, "Braw Scabbers."  
The Company ask you to tune in.  
IRA VANDA and GUS DAWSON sing a  
Playette.  
"THE TEST OF LOVE," with  
Ira Vanda, Gus Dawson, and Cyril North-  
cote.  
IRA VANDA in a Fishing Tale.

DISMAL DESMOND is more dismal than

- ever.  
A FINALE by the Company.  
10.32 p.m.—COBURG CITY BAND:  
Favourite, "Musical Fragments" (Rimmer).  
10.40 p.m.—"Argos" news service. British  
Official Wireless News.  
10.50 p.m.—COBURG CITY BAND  
Soloist, "Thinking of You" (Dostalson).  
10.55 p.m.—VICTOR GOURIET:  
"Musical Comedy Memories."  
11 p.m.—OLD GREAT THOUGHT:  
"Every man has in himself a fountain of  
uncovered character. Happy is he who  
lets the Gorgon to his own soul."  
Theo. L. CUTLER, D.D.  
11.1 p.m.—JOE ARBONSON AND HIS SYN-  
COPATING SYMPHONISTS:  
"Just One More Kiss" (Lloyd).  
"That a Bird's Eye View" (Donaldson).  
"A Cup of Coffee, a Sandwich and You"  
(Meyer).  
"Somebody's Lonely" (Daria).  
"Fling Flax" (Acker).  
"Ting a Ling" (Britt).  
"Mary Lou" (Layman).  
"The More We are Together" (Lampbell).  
11.10 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Monday.

## MORNING SESSION.

- 7.1 a.m.—Musical selections on the Brunswick  
Postoffice.  
7.30 a.m.—British Official Wireless Press re-  
servations from Rugby Super Wireless Station,  
England.  
Express train information.  
"Age" news bulletin, exclusive to 3AR.  
12 noon.—First signal chime from G.P.O.  
Market reports.  
Events of the day.  
Studio barometer and outdoor thermometer  
readings.  
12.5 p.m.—Musical selections from the Studio.  
12.55 p.m.—Stock Exchange news.  
12.59 p.m.—Musical selections from the Studio.  
1.25 p.m.—Shipping movements.  
Mail notices.  
1 p.m.—Close down.

## AFTERNOON SESSION.

- FITZROY PONIES.  
Results after each race and at half-hourly  
intervals.  
2.30 p.m.—Studio Orchestra:  
"Blossom Time" (Sigmund Romberg).  
2.45 p.m.—Miss Mary Fraser, soprano:  
"Here to love" (Rubens).  
"The Swallows" (Cowton).  
2.50 p.m.—Studio Orchestra:  
"Giggles" (Schubert).  
"A Polish Dance Theme" (Schwanzenau).  
3.8 p.m.—Miss Ethel Brasley, piano:  
"La danse du Peck" (Debussy).  
3.12 p.m.—Studio Orchestra:  
"Variations" (Chakovsky).  
3.25 p.m.—Miss Mary Fraser, soprano:  
"Waiting" (Leo Crook).  
"My Hero" (Oscar Strauss).  
3.30 p.m.—Studio Orchestra:  
"Variations" (Nizetz).  
3.40 p.m.—Mr. E. Fiedler, violin:  
"Allegretto and Scherzo" (Berz).  
3.45 p.m.—Studio Orchestra:  
"Romance" (Tchaikovsky).  
4 p.m.—Time signal chime from G.P.O.  
Second weather forecast.  
Studio Orchestra, "Nocturn" (Bargmann).  
4.15 p.m.—Mr. Joseph Willdove, tenor:  
"Obstinatien" (H. de Fossanelles).  
"La danse de monseigneur Verdi".  
4.25 p.m.—Studio Orchestra:  
"Cantata" (Ambrosio).  
4.35 p.m.—Mr. Joseph Willdove, tenor:  
"Be Lucevan le Stelle" (Puccini).  
"Gotta" (by lonely caravan at night).  
4.42 p.m.—Studio Orchestra:  
Selections.



Good News  
for  
Radio Enthusiasts!

**-BURGESS-**  
RADIO BATTERIES

now  
within the  
reach of all



The World-Famous

**Burgess Radio Batteries**

Are Now Reduced to

Radio Dealers  
Everywhere

(June 1)

**26/-**

Radio Dealers  
Everywhere

(June 1)

ALTHOUGH the unprecedented demand for Burgess Radio Batteries recently exhausted stocks, the Burgess Company has cabled agreeing to the drastic reduction to 26/- from June 1st, thus placing these magnificent dry cell batteries within the reach of every set owner in Australia. There will be no change in the quality of these supreme radio batteries, which are factory-fresh every month.

This unique gesture is the result of the visit of the N.S.W. Manager of New System Telephones Pty. Ltd., wholesale distributors for Australia.

**"Half the cost because double the life."**

If your dealer is out of stock, write direct to us, giving dealer's name.

**New System Telephones Pty. Ltd.,**  
280 Castlereagh Street, Sydney

Queensland Agency: Canada Cycle & Motor Agency (Q.), Creek & Adelaide Streets, Brisbane.

S.B.

4.55 p.m.—Evening amusement guide.  
6 p.m.—Time signal chimes from G.P.O. Close down.

EARLY EVENING SESSION.

6.45 p.m.—Children's corner, Jimmy Jackeroo and the Paravand Five.

EVENING SESSION.

7.30 p.m.—Mr. T. E. Jones will lecture on "Vaccuum Cleaning and Its Relation to Hygiene."  
7.45 p.m.—British Official Wireless Press. Studio barometer readings.  
8 p.m.—Mr. Frederick George, baritone: "Let the rest of the world come to-morrow" (Ball).  
"Tramping along" (Darewski).  
8.17 p.m.—Miss Eileen Kerwin, contralto: "Three little birds" (Emilie Clarke). "I am not fat" (Toot).  
8.14 p.m.—Leggett's Ballroom Orchestra:  
8.30 p.m.—Mr. Lloyd Marlin, tenor: "Take in the Sun, Hang Out the Moon" (Woods).  
"At Sundown" (Donaldson).  
8.37 p.m.—Mr. Frank Crossley, "The Anzac Cove":  
"The Giddy Little Carrot" (James). "Punny Instrument" (Chif. Grey).  
8.48 p.m.—Leggett's Ballroom Orchestra:  
9 p.m.—Miss Elise Van Houghton, Talk on Modern Ballroom Dancing.  
9.15 p.m.—Leggett's Ballroom Orchestra.  
9.30 p.m.—Mr. Lloyd Macint, tenor: "Eleanor" (Cobridge-Taylor). "Songs My Mother Taught Me" (D'Vorsak).  
9.37 p.m.—"The Anzac Cove" insists on more fun:  
"In the Twilight," collo imitation (R. Canthony).  
"When I was a Boy at School" (M. Spurr).  
9.44 p.m.—Miss Eileen Kerwin, contralto: "Until" (Napoleon Asrain). "Four Leaf Clover" (Wilbey).  
9.52 p.m.—Mr. Frederick George, baritone: "Friend of Mine" (Sanderson). "King Charles" (White).  
10 p.m.—Time signal chimes from G.P.O. Studio barometer readings. "Age" news bulletin.  
Leggett's Ballroom Orchestra.  
11 p.m.—Time signal chime from G.P.O. Close down.

4QG, BRISBANE.

Monday.

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

AFTERNOON SESSION.

2.30 p.m.—From Hotel Carlton: Afternoon Tea Music played by Hotel Carlton Symphony Orchestra.  
4.15 p.m.—From the Studio: News Service supplied by "The Telegraph."  
4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.0 p.m.—News Service supplied by "The Daily Standard."  
6.30 p.m.—"The Children's Sessions: Stories by "The Sandman."  
7.0 p.m.—Market Reports: Stock Reports.  
7.30 p.m.—Weather News: Announcements.  
7.45 p.m.—Standard Time Signals.  
8.45 p.m.—Lectures: "The Five Pies in a Winner" by Mr. E. J. Shelton (Instructor in Pig Raising).

NIGHT SESSION.

A SCOTCH PROGRAMME.

To-night's Programme will comprise Scotch music.

8.0 p.m.—March, "The Star of Bobbie Burns" (Hume), the Federal Band (conductor, Mr. W. H. Davis); Scotch waltz, "Hi Donald" (Lauder), by "Joek"; bagpipe selection, march, "Donald of Isles," Pipe-Major P. McCorkindale; selection, "Echoes of Scotland" (Rimmer), the Federal Band; vocal trio, "We Hoose Mang the Heather" ("Rab," "Tom" and "Joek"); contralto solo, "Annie Laurie" (Lady Stott); Miss Vera Parker; euphonium solo, "Bonnie Mary of Argyll" (Nelson), accompanied by the Studio Band; baritone solo, "McGregors Gathering" (Lee), by "Rab"; value, "Highland Gems" (Dulek), the Federal Band; solo, "Daddy's Gumlat Name" (Russell), by "Joek"; a thought for to-night (Will the Studio); "Woman and the Home"; solo, "The Highlandman's Toast" (Lind), Miss Agnes Kerr; vocal duet, "When You Gave Auld Jamie" (Old Scotch), by "Joek" and "Joek"; selection, "A Scottish Geranium" (Faulds), the Federal Band.

9.0 p.m.—Metropolitan Weather Forecast; Orchestral, "The Highland Patrol" (Laurenson), the Studio Orchestra (conductor, Mr. A. H. Featherstone); tenor solo, "In the Heather My Lads" (Lohr), by "Tom"; soprano solo, "Donalds Bagpipe" (Kelle), Miss Elsie Peterson; bagpipe selection, march, "The Seventy-Fourth," Frewell to Edinburgh," Pipe-Major J. McCorkindale; selection, "Harry Lauder's Songs" (Lauder), the Studio Orchestra; bass solo, "The Battle of Stirling" (Chisholm), by "Rab"; Scotch comic, "We A' Go Home the Same Way" (Lauder), by "Joek"; march, "Johnny Bred" (Remick), the Studio Orchestra; solo, "Angus Macdonald" (Remick), by "Joek"; vocal trio, "My Ain Wee Home" (Munro), by "Rab," "Tom" and "Joek"; selection, "The Thistle" Part I, the Studio Orchestra; tenor solo, "Robbie Roy" (Gentry), by "Tom"; vocal duet, "The Crooket Bowler" (Old Scotch), by "Joek" and "Joek"; bagpipe selection, Strathpatey and reel, "Shepherd's Crook" and "Broomstick," Pipe-Major P. McCorkindale; soprano solo, "Lass of Mice" (Turner-Maly), Miss Agnes Kerr; selection, "The Thistle" Part 2 (Mullion), the Studio Orchestra; contralto solo, "Ye Bunks and Braes," Miss Vera Parker; melody, "Savour Scottish Melody" (Sumner), the Studio Orchestra.  
10.0 p.m.—From the Studio of 4QG: "The Daily Mail" News; Weather News; Close Down.

5CL, ADELAIDE.

Monday.

MORNING SESSION.  
12 noon—G.P.O. chimes.  
12.1 p.m.—Recitals on the New Reproducing Gramophone and the Violone Recordour.  
12.30 p.m.—"Advertiser" news service.  
12.40 p.m.—Market reports.  
1 p.m.—G.P.O. chimes.  
1.1 p.m.—Musical programme continued.  
2 p.m.—G.P.O. chimes and close down.  
AFTERNOON SESSION.  
5 p.m.—G.P.O. chimes.  
5.1 p.m.—Relax from the Maple Leaf Cafe—Orchestral items.  
5.45 p.m.—From the Studio—Musical items.  
6 p.m.—G.P.O. chimes.  
6.1 p.m.—Relax from the Arcadia Cafe—Orchestral items.  
6.55 p.m.—Station announcements.  
6 p.m.—G.P.O. chimes and close down.

EVENING SESSION.

8 p.m.—G.P.O. chimes.  
8.1 p.m.—Dinner music by Covent Garden Orchestra.  
8.45 p.m.—Bedtime stories.  
9.30 p.m.—Market reports.  
9.40 p.m.—Physical culture talk by Mr. Noel Kibble.  
Grand Opera Concert.  
8 p.m.—G.P.O. chimes.  
8.1 p.m.—SCL Orchestra.  
8.11 p.m.—Mero-soprano, Miss Elsie Woolley.  
8.13 p.m.—Soprano solo, Madame Margella Bernadi.  
Madame Margella Bernadi, Miss Gwen Collett, Mr. Herbert King and Mr. G. Gaster.

8.20 p.m.—SCL, Twinkler Boys' Club to be addressed by Mr. F. J. Wills.  
8.40 p.m.—SCL Orchestra.  
8.50 p.m.—Selection from "Madam Butterfly," Madame Margella Bernadi.  
8.55 p.m.—Bass Solo, Mr. F. G. Gaster.  
9 p.m.—G.P.O. chimes.  
9.1 p.m.—Weather report.  
9.3 p.m.—SCL Orchestra.  
9.5 p.m.—Brief story of one of the operas.  
9.25 p.m.—Mzzo-soprano solo, Miss Elsie Woolley.  
9.30 p.m.—Tennet solo, Mr. Herbert King.  
9.35 p.m.—SCL Orchestra.  
9.48 p.m.—Contralto solo, Miss Gwen Collett.  
9.53 p.m.—SCL Orchestra.  
10 p.m.—G.P.O. chimes.  
10.1 p.m.—"Advertiser" news service.  
10.15 p.m.—Mzzo-soprano solo, Miss Elsie Woolley.  
10.20 p.m.—SCL Orchestra.  
10.30 p.m.—Soprano solo, Madame Margella Bernadi.  
10.35 p.m.—Bass solo, Mr. F. G. Gaster.  
10.39 p.m.—SCL Orchestra.  
10.40 p.m.—Contralto solo, Miss Gwen Collett.  
10.48 p.m.—Tenor solo, Mr. Herbert King.  
10.57 p.m.—SCL Orchestra.  
11 p.m.—G.P.O. chimes and close down.

6WF, PERTH.

Monday.

12.40 p.m.—Time lit.  
12.35 p.m.—First local news bulletin.  
Market reports.  
Cables.  
1 p.m.—Time signal from Perth Observatory.  
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
1.2 p.m.—Studio Quintette.  
2 p.m.—Close down.  
3.30 p.m.—Talk in.  
3.35 p.m.—Musical programme.  
4 p.m.—Studio Instrumental Trio.  
4.30 p.m.—Close down.  
6.45 p.m.—Talk in.  
6.50 a.m.—Bedtime stories by Uncle Henry and Duffy.  
7.25 p.m.—Stock and Share intelligence.  
Market reports.  
Cables. News by courtesy of "The West Australian" Newspaper Co.  
7.45 a.m.—Bee Keeping talk by Mr. C. Walslow, under auspices of the Beekeepers' Association.  
8 p.m.—Time signal from Perth Observatory.  
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
8.2 p.m.—Band Night.  
Governor by the R.S.L. Band. Conductor, Lieutenant E. L. Williams.  
10 p.m.—Second news bulletin by courtesy of "The Daily News" Newspaper Co. Ships within range announcement.  
Weather report and forecast.  
10.30 p.m.—Close down.

Tuesday, May 31  
2FC, SYDNEY.

MIDDAY SESSION.

12 noon—"Big Ben" and programme announcements.  
12.2 p.m.—Stock Exchange first call.  
12.3 p.m.—Official weather forecast, rainfall, temperature, astronomical memorandum, shipping intelligence, mail services.  
12.5 p.m.—Studio music.  
12.10 p.m.—Summary of "Sydney Morning Herald" news service; and cables.  
Rugby Wireless News.  
12.25 p.m.—A Talk on Home Cooking and Recipes by Mrs. E. H. Williams.  
12.40 p.m.—Miss Florence Grant, soprano: "Villanelle" (DelfAcqua).

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Once again the Technical Staff of "Wireless Weekly" has turned to Radiokes Quality Products for use in the construction of their laboratory receiver. The Technical Editor realises that only the best can safely be laid before the Radio public, and it is the policy of "Wireless Weekly" to see that all constructional articles are true to label, that the sets described therein are simple of construction, and, furthermore, that they will give definite and permanent satisfaction. By this means the paper gains the everlasting good will of the "set constructing fans."

Apparatus from all parts of the World is now available on the Australian market; yet Radiokes has been chosen—and you can realise after reading the above remarks that this was not coincidence—but a matter of necessity—The Best Was Chosen.

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Remember that lower priced imitations of our Chokes do not embrace these features.

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**METROPOLITAN ELECTRIC CO. LTD.**

27 KING STREET, SYDNEY

12.45 p.m.—Studio music.  
 1 p.m.—"Big Ben." Weather intelligence.  
 1.3 p.m.—"Eventing News" midday news service.  
 Producers' Distributing Society's Report.  
 1.20 p.m.—Studio music.  
 1.28 p.m.—Stock Exchange, second call.  
 1.40 p.m.—Marching music for the school children.  
 1.46 p.m.—Miss Florence Grant, soprano:  
 "The Wind in the South" (Scott).  
 1.48 p.m.—Studio music.  
 1.54 p.m.—Last minute sporting information by the R.F.C. Racing Commission.  
 Close down.

## AFTERNOON SESSION.

2 p.m.—"Big Ben" and announcements.  
 2.5 p.m.—Miss Jean Hibbard, soprano (soprano from 7L):  
 "Listening" (Facker).  
 3.10 p.m.—Studio music.  
 3.25 p.m.—Miss Dorrie Carroll, soprano.  
 3.30 p.m.—Marching music for the school children.  
 3.40 p.m.—From Farmer's Tea Rooms:  
 Miss Dorothy Benbow, contralto:  
 "The Dawn" (D'Hardenel).  
 3.48 p.m.—A Talk by "Doreen" on matters of interest to women.  
 4 p.m.—From Farmer's Tea Rooms:  
 Miss Eileen Moran, soprano:  
 "Songs of the Little Folk" (Cocart).  
 4.5 p.m.—Miss Jean Hibbard, soprano:  
 "Break of Day" (Sauderson).  
 4.10 p.m.—Studio music.  
 4.18 p.m.—Miss Dorrie Carroll, soprano.  
 4.22 p.m.—From Farmer's Tea Rooms:  
 Miss Dorothy Benbow, contralto:  
 "A Little Love Nest Just for Two" (Loehr).  
 4.25 p.m.—Studio Music.  
 4.40 p.m.—From Farmer's Tea Rooms:  
 Miss Eileen Moran, soprano:  
 "My Wishes for You" (Little).  
 4.45 p.m.—Stock Exchange, third call.  
 4.46 p.m.—Studio music.  
 4.5 p.m.—Close down.

## EARLY EVENING SESSION.

5.45 p.m.—The Chimes of R.F.C.  
 5.50 p.m.—The "Hello Man" talks to be child-ren.  
 5.58 p.m.—A Serial Story.  
 6.40 p.m.—Dinner Music.  
 7 p.m.—"Big Ben." Late sporting news.  
 7.10 p.m.—Dailey's Market Reports (wool, wheat, stock).  
 7.18 p.m.—Fruit and Vegetable Markets.  
 7.20 p.m.—Weather and shipping intelligence.  
 Stock Exchange.  
 7.24 p.m.—Late "Evening News" news service.

## NIGHT SESSION.

7.50 p.m.—Studio music.  
 8 p.m.—Broadcast from the Darlington Town Hall: Items by the Metropolitan Band under the baton of Mr. John Palmer:  
 (a) March, "The Dandy Fifth" (Safoni).  
 (b) Waltz, "Santo" (Raymond).  
 8.15 p.m.—From the Studio:  
 Miss Mabel Batchelor, soprano:  
 (a) "Un Ballo" (Sezanne).  
 (b) "There is dew for the Flower" (Cowan).  
 8.24 p.m.—Metropolitan Band from the Darlington Town Hall:  
 Cornet solo, "The Lost Chord" (Sullivan).  
 8.32 p.m.—From the Studio:  
 The Negro and His Music, introducing negro spirituals, with descriptive details, by Madame Evelyn Gray.  
 The spirituals to be given are:  
 (a) "Oh Didn't It Rain" (Burleigh).  
 (b) "Nobody knows da Trouble I've Seen" (Burleigh).  
 8.42 p.m.—Items by the Metropolitan Band from the Darlington Town Hall:  
 (a) Fox trot, "Old Diddle Diddle" (Keidal).  
 (b) Selection, "Old Favourite" (Rimmer).  
 8.5 p.m.—From the Studio:  
 Mr. Alex. Whitson, baritone:  
 (a) "Fraise" (Wood).  
 (b) "Vale of Dawn" (Wood).  
 9 p.m.—"Big Ben." Mr. A. S. Le Souef will tell of a walk in Centre Africa, depicting a trip to the Aberdare Mountains, when Hippo, Elephants, Leopards, Monkeys were met with.

9.15 p.m.—Items from the Darlington Town Hall by the Metropolitan Band:  
 (a) Four Step, "Belle of Wollamontoo" (Lizhau).  
 (b) "A Rose and You" (Kilham).  
 9.25 p.m.—From the Studio:  
 Miss Mabel Batchelor, soprano:  
 (a) "Home o' Mine" (Mackenzie).  
 (b) "Song of the Flute" (Gillway).  
 9.30 p.m.—Metropolitan Band:  
 Selection, "To-night's the night" (Rubens).  
 9.45 p.m.—From the Studio:  
 Mr. Alex. Whitson, baritone:  
 (a) "From Oberon in Fairyland" (Slater).  
 (b) "A Rose and You" (Kilham).  
 9.55 p.m.—Madame Evelyn Gray will conclude the talk on Negro Spirituals and will sing:  
 (a) "Hard Trials" (Burleigh).  
 (b) "Swing Low, Sweet Chariot" (Darleigh).  
 10.5 p.m.—R.F.C. Dance Band, conductor, Mr. Eric Pearce.  
 10.10 p.m.—Miss Leslie Elliott, contralto:  
 (a) "Keep up your pecker" (Elliot).  
 (b) "Oh Cecil" (Elliot).  
 10.18 p.m.—R.F.C. Dance Band.  
 10.28 p.m.—Late news and announcements.  
 10.30 p.m.—Miss Leslie Elliott, contralto:  
 (a) "Never ask a Woman her Age" (Elliot).  
 (b) "Cross-eyed Clara's Crazy over Cross-words" (Law).  
 10.55 p.m.—R.F.C. Dance Band.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY

## Tuesday.

## DAY SESSION.

12 noon.—G.P.O. Clock and chimes.  
 12.1 p.m.—Special ocean forecast and weather report.  
 12.3 p.m.—Musical programme from the Studio.  
 12.13 p.m.—Information: Mails and shipping and movements of important ships.  
 12.16 p.m.—Sydney Stock Exchange calls.  
 12.18 p.m.—Dials in wall by wireless.  
 12.20 p.m.—Ruffl Market report.  
 12.21 p.m.—Vegetable Market report.  
 12.22 p.m.—London Metal Market report.  
 12.24 p.m.—Dairy and Farm Produce Market report.  
 12.27 p.m.—Racing resume.  
 12.30 p.m.—G.P.O. Clock and chimes.  
 12.31 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Sporting information ("Sun").  
 12.45 p.m.—Hilfey's Instrumental Quartette, direction, Caryl Castling.  
 1.30 p.m.—G.P.O. Clock and chimes.  
 1.31 p.m.—News from the "Sun."  
 1.40 p.m.—Musical programme from the Studio.  
 1.50 p.m.—Sydney Stock Exchange calls.  
 1.53 p.m.—News from the "Sun."  
 1 p.m.—G.P.O. Clock and chimes.  
 Racing information broadcast immediately after each race by courtesy of the "Sun."  
 2.1 p.m.—Talk to Children and Special entertainment for Children in Hospital.  
 2.10 p.m.—Talk on "Tollie Hints," by Mr. Adams, A.M.A.  
 Social Notes— Replies to correspondents by Mr. Jordan.  
 3 p.m.—G.P.O. Clock and chimes.  
 3.1 p.m.—News from the "Sun."  
 3.15 p.m.—Civil Service Stores Trio, direction Miss Jo Courtney Bremer.  
 3.30 p.m.—G.P.O. Clock and chimes.  
 3.40 p.m.—Talk on 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.  
 4.1 p.m.—Civil Service Stores Trio.  
 4.15 p.m.—Serial Story.  
 4.30 p.m.—G.P.O. Clock and chimes.  
 4.31 p.m.—Musical programme from the Studio.  
 4.45 p.m.—News from the "Sun."  
 4.50 p.m.—Racing resume.  
 4.52 p.m.—Producers' Distributing Society's Fruit and Vegetable Market report.

4.54 p.m.—Resume of night's programme.  
 4.56 p.m.—Announcements.  
 4.58 p.m.—Special ocean forecast.  
 5 p.m.—G.P.O. Clock and chimes. Close down.

## EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.  
 5.46 p.m.—Urcel, George and the Kiddies.  
 5.5 p.m.—The music of Miss Monica Seely will entertain the kiddies.  
 6.40 p.m.—Musical programme from the Studio.

## SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.  
 Australian Mercantile Land and Finance Co's report.  
 Weather report and forecast by courtesy of Govt. Meteorologist.  
 Producers' Distributing Society's Fruit and Vegetable Market report.  
 Stock Exchange reports.  
 Grain and Fodder report ("Sun").  
 Dairy Produce report ("Sun").  
 7.16 p.m.—Country News from the "Sun."  
 7.20 p.m.—Talk on "The Motor Car" by Mr. Hartill.  
 7.24 p.m.—Talk on "Girls' Week."  
 8 p.m.—G.P.O. Clock and chimes.  
 Broadcasters' Topical Chorus.  
 8.1 p.m.—An hour's programme, presented by Cosar Valves.  
 Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.  
 8.13 p.m.—Mr. Herbert Hinchcliffe (Baritone).  
 8.20 p.m.—Miss Ethel Friend (Contralto), in a song cycle, "Summer Time" (London Road), rec'd obligato by Mr. Bryce Carter.  
 8.20 p.m.—Mr. Stanley R. Catlett (Tenor).  
 8.27 p.m.—Miss Gladys Verosa (Soprano).  
 8.57 p.m.—Duet: Messrs. S. R. Catlett and E. C. Hinchcliffe.  
 8.4 p.m.—Resume of following day's programme. Weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.  
 9.1 p.m.—Broadcasters' Light Orchestra.  
 9.17 p.m.—Miss Ethel Friend.  
 9.21 p.m.—Madame Betts-Vincent: A talk on Handel and Haydn, with illustrations at the piano.  
 9.41 p.m.—Mr. Leonard Mury (Baritone).  
 9.48 p.m.—Broadcasters' Light Orchestra.  
 10.8 p.m.—Mr. Stanley R. Catlett.  
 10.11 p.m.—Mr. Herbert C. Hinchcliffe.  
 10.18 p.m.—The Ambassadors' Dance Band broadcast from The Ambassadors. "Sun" news broadcast during intervals.  
 11 p.m.—G.P.O. Clock and chimes.  
 National Anthem.

## 3LO, MELBOURNE.

## Tuesday.

## MIDDAY SESSION.

EDGARD LAMBERT, Violin.  
 VICTOR GOURIET.  
 RAYMOND LAMBERT, Piano.  
 MARIE BREMER, Soprano.  
 THE STUDIO ORCHESTRA.  
 Accompanist . . . . . AGNES FORTUNE  
 Announcer . . . . . MAURICE DUDLEY  
 A. RUFFLE, Hosts.  
 12 noon.—Time Signal: British Official Wireless News from Rugby; Reuter's and the Australian Press Association Cables.  
 "Argus" and "Herald" News Service.  
 12.30 p.m.—EDGARD LAMBERT, Violin, "Cavatina" (Raff).  
 12.30 p.m.—VICTOR GOURIET.  
 "Musical Cinema Memories."  
 12.37 p.m.—Stock Exchange Information.  
 12.40 p.m.—STUDIO ORCHESTRA.  
 Selection, "The Street Singer" (Frances Simon).  
 12.50 p.m.—RAYMOND LAMBERT, Piano.  
 "La Cathedrale Engloutie" (Debussy).  
 "Au fond des Bois" (Straub).  
 1.0 p.m.—MARIE BREMER, Soprano.  
 "Now Sleeps the Crimion of the Quilter."  
 "The Lament of Iah" (Bantock).  
 1.7 p.m.—STUDIO ORCHESTRA.  
 "Little Miss Buttery" (Cowan).  
 1.14 p.m.—Meteorological Information: Shipping Intelligence; Weather Report for Victoria, Tasmania, South Australia and New

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South Wales; Ocean Forecast; River Reports.  
 1.20 p.m.—EDOUARD LAMBERT, Violin, "Meditation de Thais" (Massenet).  
 "Souvenir" (Drala).  
 1.37 p.m.—VICTOR GOURIET, "Musical Comedy Nocturne."  
 1.44 p.m.—RAYMOND LAMBERT, Piano, "Valse C. Sharp Minor" (Mozart).  
 "Marche" (Turine).  
 1.40 p.m.—STUDIO ORCHESTRA, "Le Voyage Enchante" (Sazun).  
 1.47 p.m.—MARIE BRENNER, Soprano, "Two Songs from Omar Khayyam" (Anderson).  
 "Havenera" (Carmen).  
 1.54 p.m.—STUDIO ORCHESTRA, "Pochere Napoleon" (Rubenstein).  
 2.0 p.m.—Close Down.

**AFTERNOON SESSION.**

Speakers:

Articles:

"AU FAIT."  
 LEW JAMES.  
 "THE FUTURISTS."  
 DODIE WOLFE.  
 MAXWELL CAREW.  
 JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.  
 Accompanist ..... AGNES FORTUNE  
 Announcer ..... ALFRED ANDREW  
 AN HOUR OR SO WITH JOE.  
 3.0 p.m.—JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.  
 "Fig Leaves" (Adrey).  
 "Every Little Thing" (Spencer).  
 "That Samson and Delilah Melody" (Greer).  
 3.10 p.m.—"AU FAIT."  
 "Ballad Talk."  
 3.23 p.m.—JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.  
 "You've Got to Black Shuffle" (Sparks).  
 "I've Got the Six" (Donaldson).  
 "There Ain't No Maybe in My Baby's Eyes" (Kahn).  
 3.32 p.m.—LEW JAMES.  
 "Jewmantics."  
 3.42 p.m.—JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.  
 "Kentucky Lullaby" (Miller).  
 "The Village Schoolkatch Owth the Village Now" (Moore).  
 "I'm Larkin' Fo' You" (Hathaway).  
 3.52 p.m.—"THE FUTURISTS" present their Radio Revue.  
**TEA TIME TOPICS.**  
 The Company sing an Opening Chorus.  
 CYRIL BANCROFT will entertain you.  
 IRA VANDA and GUS DAWSON will again become sentimental.  
 A Tabloid Sketchette, "THE SAME OLD STORY."  
 DISMAL, DESMOND in a few melancholy Memorials.  
 GUS DAWSON and Company in a Finkle.  
 4.7 p.m.—JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.  
 "That's the Love You" (Donaldson).  
 "Take it the Sun, Hagge Out the Moon" (Woods).  
 "I've Been Wasting My Dreams Over You" (O'Hagan).  
 4.17 p.m.—DODIE WOLFE.  
 "I Care For Her."  
 "That's What Girls Are For."  
 4.24 p.m.—JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.  
 "El, El, The Merrin" (Woods).  
 "In a Little Spanish Town" (Wayne).  
 4.31 p.m.—MAXWELL CAREW.  
 "Who's Coming My Way Home" (Original).  
 "He's Only a Working Man" (Wayne).  
 4.45 p.m.—"Herald" News Service; Stock Exchange Information.  
 5.0 p.m.—Close Down.

**EVENING SESSION.**

CHILDREN'S HOUR.

Storyteller ..... "MAY GUMLEAF"  
 "THE STUDIO ORCHESTRA."  
 5.10 p.m.—Answers to Letters and Birthday Greetings.  
 5.55 p.m.—STUDIO ORCHESTRA, "Sally" Part I. (Schumann).  
 6.5 p.m.—"MAY GUMLEAF," Poems: "Dreaming," "31.0 Melbourne."  
 Story for the Littlest Ones: "An Early Bird."

6.15 p.m.—STUDIO ORCHESTRA, "Suite," Part II. (Schumann).  
 6.20 p.m.—"MAY GUMLEAF," Story for the Older Gaudens, "Mary Gumleaf Visits the Fire Station."  
 6.26 p.m.—"Argus" and "Herald" News Service; Weather Synopsis; Shipping Movements.  
 6.47 p.m.—Stock Exchange Information.  
 6.52 p.m.—Fruit Market Reports, by J. E. Roberts, L.A.; Rabbit Prices.  
 6.56 p.m.—River Reports.  
 6.58 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.; Dairy Produce; Poultry and Onions; Newmarket Sheep Sales; Poultry, Grain, Straw, Hay, and Jute.  
 7.0 p.m.—Fruit Market Reports; by the Victorian Wholesale Fruitellers' Association, compiled by the "Fruit World," exclusive to 31.0.

**NIGHT SESSION.**

Speakers:

MR. A. E. MCMICKEN.  
 MR. E. S. CUNNINGHAM.  
 MR. C. NUTTALL.  
 PROFESSOR A. C. D. NIVETT.  
 MR. H. W. GEPP.  
 Artists:  
 AGNES FORTUNE, Piano.  
 JAMES HILEY, Tenor.  
 BERTHA JORGENSEN, Violin.  
 M. CARA and BURKE.  
 LEW JAMES.  
 DODIE WOLFE, and  
 ELSA STRALLIA and MAXIM BRODI,  
 LEE WHITE and CLAY SMITH.  
**COMPETITION WRITERS SHORTHAND WRITERS.**  
 THE STUDIO ORCHESTRA.  
 JOE ARONSON AND HIS SYNCPATING SYMPHONISTS.  
 Accompanist ..... AGNES FORTUNE  
 Announcer ..... ALFRED ANDREW  
 7.15 p.m.—MR. A. E. MCMICKEN, will speak on, "The Romance of Friendly Societies."  
 7.30 p.m.—Under the Auspices of the University Extension Board, MR. E. S. CUNNINGHAM, M.A., Dip. Ed., Director of Biological Laboratory at the Teachers' College, will speak on "Some Impressions of American Life."  
 7.45 p.m.—MR. CHARLES NUTTALL, will speak on, "The Learning Post."  
 8.0 p.m.—STUDIO ORCHESTRA, "Schubert Songs."  
 8.8 p.m.—JAMES RILEY, Tenor, "Mother O'Mine" (Tovens).  
 8.15 p.m.—"THE SHILLY NIGHT" (Moore).  
 8.15 p.m.—CHEMICAL SOCIETIES' COMBINED DINNER, speech by MR. H. W. GEPP, Chairman of the Development and Migration Committee, "Some Thoughts on the Development of Australia."  
 8.35 p.m.—BERTHA JORGENSEN, Violin, "Fairy Flower" (MacMillan).  
 8.35 p.m.—THE AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE—EVERYBODY—"Always extend the same courtesy towards other road users that you expect to receive from them."  
 8.40 p.m.—CHEMICAL SOCIETIES' COMBINED DINNER, Speech by PROFESSOR A. C. D. NIVETT, Chief Executive Officer, Council of Scientific and Industrial Research.  
 9.0 p.m.—31.0 Competition for SHORTHAND WRITERS. Test No. 1: 100 Words per minute.  
 Only persons who are pupils receiving tuition in shorthand will be eligible for this test, and competitors must furnish the name of the college, school or persons from whom they are receiving tuition.  
 9.5 p.m.—LEE WHITE AND CLAY SMITH, will entertain you with selections from their repertoire.  
 10.15 p.m.—31.0 COMPETITION FOR SHORTHAND WRITERS—Test No. 2: 120 Words per minute.  
 This test will be open to persons who have not received a certificate at a speed of more than 120 words per minute.  
 9.20 p.m.—STUDIO ORCHESTRA, "In a Chinese Temple" (Gordon-Kelley).  
 9.27 p.m.—COMPETITION FOR SHORTHAND WRITERS—Test No. 3: 150 Words per minute.  
 This test will be open to any person who cares to participate.

9.32 p.m.—ELSA STRALLIA AND MAXIM BRODI, "Mars" (Bredl).  
 "La Fanciulla Del West" (Pucelini).  
 "Only the River Running By" (Hopkinson).  
 Elsa Stralia, "Jewel Song from Faust" (Gounod).  
 "A Spring of Eucalypt" (Hall).  
 "Dust, From Faust."  
 9.47 p.m.—STUDIO ORCHESTRA, "Fairy Flower" Part I. (Somerville).  
 9.54 p.m.—British Official Wireless News from Rugby; Announcements.  
 9.57 p.m.—JAMES RILEY, Tenor, "Eleanor" (Catherine Taylor).  
 "A Spring of Eucalypt" (Hall).  
 10.4 p.m.—O'MANA and BURKE, Will give some Old Time Music Hall Songs.  
 10.14 p.m.—STUDIO ORCHESTRA, "Four Fancies," Part 2.  
 10.25 p.m.—Weather Forecast; British Official Wireless News.  
 10.59 p.m.—LEW JAMES, "Jewmantics."  
 10.57 p.m.—AGNES FORTUNE and BERTHA JORGENSEN, "Sonata" (Handel).  
 10.47 p.m.—"Argus" News Service.  
 10.52 p.m.—DODIE WOLFE, "Humorous Impressions."  
 11.0 p.m.—OUR GREAT THOUGHT, "If we could read the secret history of our enemies, we should find in each man's life sorrow and suffering enough to disarm all hostility."  
 11.1 p.m.—JOE ARONSON AND HIS SYNCPATING SYMPHONISTS, "On The Riviera" (Rich).  
 "By The Waters of Minnetonka" (Lieuranc).  
 "That's My Girl" (Davis).  
 "I Want a Pardon for Daddy" (Rees).  
 "St. Louis Blues" (Handy).  
 "Hi, Ho, The Merric" (Brown).  
 "You Need Someone to Love" (Olson).  
 "Calm Hawaiian Seas."  
 "Stepping in Society" (Aho).  
 "Speedway Lark" (Fiorini).  
 "Coax! The Piano"—Fiano Solo (Confrey).  
 "GeeWh" (Friend).  
 "It Made You Happy" (Donaldson).  
 "Mignonette" (Nichols).  
 "How Many Red Riding Hood" (Randolph).  
 "Clap Hands Here Go Charlie" (Meyer).  
 "While the Years Go Drifting By" (Kahn).  
 11.40 p.m.—GOD SAVE THE KING.

**3AR, MELBOURNE**

Tuesday.

**MORNING SESSION**

11 a.m.—Selections on the Brunswick Programme.  
 11.30 a.m.—British Official Wireless Press received from Rugby Super Wireless Station, England.  
 Express train information.  
 "Age" news bulletin, exclusive to 3AR.  
 12 noon.—Time signal chime from G.P.O. Studio Barometer and outdoor Thermometer readings.  
 First weather forecast.  
 Events of the day.  
 12.5 p.m.—Miss Noble: Cooking talk by courtesy of Metropolitan Gas Company.  
 12.20 p.m.—Musical selections from the Studio.  
 12.30 p.m.—Stock Exchange news.  
 Market reports.  
 12.40 p.m.—Musical selections from the Studio.  
 12.55 p.m.—Shipping and mail news.  
 1 p.m.—Close down.

**AFTERNOON SESSION.**

2.30 p.m.—Studio Orchestra:  
 Selection, "Basting Butter" (Braham).  
 2.45 p.m.—Miss Elma Nicholson, soprano:  
 "Ave" "Guard Thee" (Benjamin Godard).  
 "Obtination" (H. de Fontenailles).  
 2.55 p.m.—Studio Orchestra:  
 "Serenade" (Karganoff).  
 "Minuetto" (Erini).



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200 CASTLEREAGH STREET, SYDNEY

- 12.3 p.m.—Mr. Ronald Breenley, 'cello: "Liebestraum" (Franz von Liszt).
  - 1.11 p.m.—Studio Orchestra: "Incidental Music to Merchant of Venice" (Besse).
  - 1.25 p.m.—Miss Elma Nicolson, soprano: "One Fine Day," from Madame Butterfly (Puccini). "Enough" (Homer Samuels).
  - 1.33 p.m.—Studio Orchestra: "Gipsy Love" selection (Lohar).
  - 1.45 p.m.—Mr. R. F. Allen, male alto: "Lifeless and grey the sea lies" (Lohr). "Little brown cottage" (S. Dickens).
  - 1.53 p.m.—Studio Orchestra: "Krakowak" (Szigaloczi).
  - 4 p.m.—Time signal chime from G.P.O. Second weather forecast. Studio Orchestra: "Spring Song" (Memelsohn).
  - 4.20 p.m.—Mr. R. F. Allen, male alto: "In the garden of to-morrow" (J. J. Depen). "I hear a thrush at eve" (Caldman).
  - 4.28 p.m.—Studio Orchestra: Selections.
  - 4.55 p.m.—Evening amusement guide.
  - 6 p.m.—Time signal chime from G.P.O. Close down.
- EARLY EVENING SESSION.**
- 6.45 p.m.—Children's Corner—Uncle Sam.
- EVENING SESSION.**
- 7.45 p.m.—British Official Wireless Press: Fat Sheep and Cattle Report by Messrs. John McNamara and Co., Ltd.; Studio Barometer Readings.
  - 8.0 p.m.—Time Signal Chime from G.P.O.; Miss Beatrice Oakley, Soprano: "Nussetta's Song," from La Boheme (Puccini). "I Said There is Nothing in Fear" from Carmen (Bizet).
  - 8.7 p.m.—Miss Marion De Saxe, Flute: "Fancies (Recesses)" (Parebrother). "Wagnerled" (Sabichilli).
  - 8.16 p.m.—Mr. Joe Delany, Tenor: "Dear Love, Remember Me" (Marshall). "At Dawning" (Caldman).
  - 8.25 p.m.—Radio Play: "The Interviewer" (Herbert-Swears). Characters: Miss Maguire, A Lady Journalist, Miss Erylle Glesser, Elias, A Housemaid, Miss Edie Pariceson.
  - 8.37 p.m.—Mr. Arnold Ashworth, Baritone: "Prologue," from Puffinbush (Léonciauval). "My Little Boy" (Dickson).
  - 8.45 p.m.—Miss Felice Crozier, Violin: "D'Amour et Moi" (Seidel). "Zingaretti" (Elletton).
  - 9.0 p.m.—Studio Orchestra, Soprano: "Chanson Indoue" (Rimsky-Korsakov). "Annie Laurie" (Lacy Seal).
  - 9.8 p.m.—Miss Marion De Saxe, Flute: "Bereona" (Léonciauval). "Bluenosed" (DeJaure). "The Quers" (Forsval).
  - 9.15 p.m.—Mr. Joe Delany, Tenor: "Roses of My Heart" (Lohr). "Mary" (Richardson).
  - 9.25 p.m.—Art Talk, "Sketchings" by Miss J. C. A. Trull, under the auspices of the Arts and Crafts Society of Victoria.
  - 9.30 p.m.—Mr. Arnold Ashworth, Baritone: "In the Silence of the Night" (Rachmaninoff). "Tally Ho" (France Leon).
  - 9.40 p.m.—Miss Felice Crozier, Violin: "Intermezzo" from Cavalleria Rusticana (Maasani). "Carmen Fantasia," from Carmen (Bizet).
  - 9.53 p.m.—Miss Peggy Loff, Contralto: "Lovely Night" (Rondell). "Cupid Laughing" (Heate). At the Piano, Mr. Claude Kennedy.
  - 9.59 p.m.—Time Signal Chime from G.P.O. Studio Barometer Readings: "Ace" News Bulletin, exclusive to G.A.R. Leggett's Ball-room Orchestra.
  - 10.0 p.m.—Time Signal Chime from G.P.O.; Close Down.

- 4QG, BRISBANE.**
- Tuesday.**
- MIDDAY SESSION.**
- 1.0 p.m.—Market Reports: Weather Information; "The Daily Mail" and "The Daily Standard" News.
  - 1.29 p.m.—From Hotel Carillon: Lunch Music by Hotel Carillon Symphonic Orchestra.
  - 1.28 p.m.—From the Observatory: Standard Time Signal.
  - 2.0 p.m.—Close Down.
- AFTERNOON SESSION.**
- 3.50 p.m.—Musical Programme from the Studio: Duo Art Selection, "Polishelle" (Rachmaninoff); Avonlin Vocalion selections, (a) 'cello solo, "Scherzo" (Florentz), Jacques Van Lier, (b) contralto solo, "Western Wind" (Drohe), Miss Ethel Hook; Duo Art selection, "Symphony" Tchaikovsky; Avonlin Vocalion selection, (a) Fox-trot, "In My Garden" (Warner), Ben Parker and his band, (b) baritone solo, "Beware of the Maiden" (Day), Mr. Ernest Fletcher; Duo Art selection, "Frelude" (Rachmaninoff); Avonlin Vocalion selection, (a) band, "King's Court March" (Ellis), (b) Majesty's Welsh Guards; (c) song, "First Night in Arab" (Seymour); Mr. Billy Desmond; Duo Art selection, "Melody in F" (Albaniz).
  - 4.15 p.m.—Telegraph News.
  - 4.30 p.m.—Close Down.
- EARLY EVENING SESSION.**
- 6.0 p.m.—"Daily Standard" News; Announcements.
  - 6.30 p.m.—The Children's Session: Stories by Uncle Ben and Uncle Jim.
  - 7.0 p.m.—Market Reports; Stock Reports.
  - 7.30 p.m.—Weather News; Announcements.
  - 7.45 p.m.—Standard Time Signal.
  - 7.47 p.m.—Lecturette, "Photography," by Mr. T. L. South (Manager, Kodak Limited).
- NIGHT SESSION.**
- INSTRUMENTAL RECITAL.**
- The first portion of tonight's programme will be relayed from the studio of Mr. and Mrs. Crofts, Valley, Brisbane.
- 8.0 p.m.—From the Studio of Mr. and Mrs. Crofts: Orchestral, "Sunlight and Love" (Linderoth); Mr. Arnold Ashworth, Baritone, violin solo, "Paderewski's Minuet" (A. Krumpholtz); Miss Irene Bate solo, "Son of the Desert" (Phillips); Mr. Stevens, mandolin solo, "The Prisoner's Song" (Mascay); Little Miss Gloria Foley, soprano solo, "Melisande in the Wood" (Goetz); Miss Della Elms; violin solo, "Slovak Legend" (Bjarnar and Bell); Mr. V. Able, baritone solo, "The Trumpeter" (Arlie Day); Mr. Dugdale; mandolin solo, "William Tell" (Rossini); Miss Vera Simpson; solo, "Come, For I'm June" (Dunhill Foster); Miss Kelly; violin solo, "The Swan" (Saint Saens); Miss Phyllis Rissand; instrumental quartette, "One, Two, Three, Four," Messrs. Elms, Kelly, Dugdale and Smith.
- STUDIOS AND BARS.**
- 8.0 p.m.—From the Studio of 4QG: Metropolitan Weather Forecast, overture, "Raymond" (Thomas), the Studio Instrumental Quartette, conductor, Mr. F. Smith; soprano solo, "Eager Music" (Manning (Fitzroy), Miss Kitty Miller; male quartette, "The Quers" (Forsval), the Anglo Male Quartette Party, tenor solo, "I Shall Be Waiting" (Wheeler), Mr. C. K. Kolb; monologue, "A Stroll With Shakespeare," Miss Kileen Melman; a thought for to-night, "Will It Last" "Community Spirit"; orchestral, "The Merry Widow" (Strauss); the Studio Instrumental Quartette; soprano solo, selected, Mrs. Robert Roff; bass solo, "A Fragment of the Line" (Squire), Mr. R. Williams; male quartette, "The Centauro" (Parker), the Anglo Male Quartette Party; overture, "Call of Baudouin" (Bouliedien), the Studio Instrumental Quartette; baritone solo, "The Long Ago" (H. B. Ward); vocal trio, "Care Killed a Cat" (Kingzett); Messrs. C. Kolb, A. F. Stoddard and R. Pitt; orchestral, "Suite of the Clouds" (Prinz); the Studio Instrumental Quartette; male quartette, "Blew Hard Cut Noor Wan" (Parker), the Anglo Male Quartette.
  - 10.0 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

- 5CL, ADELAIDE.**
- Tuesday**
- MORNING SESSION.**
- 12 noon—G.P.O. Chimes.
  - 12.1 p.m.—Musical selections.
  - 12.30 p.m.—"Advertiser" news service.
  - 12.50 p.m.—Market reports.
  - 1 p.m.—G.P.O. chimes.
  - 1.1 p.m.—Musical selections.
  - 2 p.m.—G.P.O. chimes and close down.
- AFTERNOON SESSION.**
- 3 p.m.—G.P.O. chimes.
  - 3.1 p.m.—Relay from Maple Leaf Cafe—Orchestral selections.
  - 3.45 p.m.—From the Studio—Recitals on the "New Reproducing Scientific" and the "Automatic Reproducing."
  - 4 p.m.—G.P.O. chimes.
  - 4.1 p.m.—Relay from the Arcade Cafe—Orchestral selections.
  - 4.55 p.m.—Station announcements.
  - 5 p.m.—G.P.O. chimes and close down.
- EVENING SESSION.**
- 6 p.m.—G.P.O. chimes.
  - 6.15 p.m.—Dinner Music by Concert Garden Restaurant Orchestra.
  - 6.45 p.m.—Radio story.
  - 7.0 p.m.—Market reports.
  - 7.40 p.m.—Home beautiful talk, by "Doris."
  - 8 p.m.—G.P.O. chimes.
  - 8.1 p.m.—Tenor solo, Signor Enrico Ripatore.
  - 8.5 p.m.—Suburban Silver Band.
  - 9.15 p.m.—Comedy selection, Mr. Will Ringer.
  - 9.25 p.m.—Suburban Silver Band.
  - 9.40 p.m.—Travel talk by a representative of the Tourist Bureau.
  - 9.55 p.m.—Suburban Silver Band.
  - 9.59 p.m.—G.P.O. chimes.
  - 10 p.m.—Weather report.
  - 10.1 p.m.—Dulcino, short relay.
  - 10.3 p.m.—Song, Miss Alma Signina.
  - 9.7 p.m.—Suburban Silver Band.
  - 9.17 p.m.—Egypian souze, Miss Blanche Seb (Schuler).
  - 9.25 p.m.—Suburban Silver Band.
  - 9.32 p.m.—Comedy number, Mr. W. Ringer.
  - 9.40 p.m.—Song, Mr. Ted Jenkins.
  - 9.44 p.m.—Suburban Silver Band.
  - 9.50 p.m.—Song, Miss Alma Signina.
  - 9.54 p.m.—G.P.O. chimes.
  - 10 p.m.—Suburban Silver Band.
  - 10.10 p.m.—"Advertiser" news service.
  - 10.30 p.m.—Tenor solo, Signor Enrico Ripatore.
  - 10.55 p.m.—Comedy selection, Mr. W. Ringer.
  - 10.48 p.m.—Song, Miss Blanche Schneider.
  - 10.47 p.m.—Puffinbush selection.
  - 10.52 p.m.—Song, Miss Alma Signina.
  - 10.55 p.m.—Song, Mr. Ted Jenkins.
  - 11 p.m.—G.P.O. chimes and close down.
- 6WF, PERTH.**
- Tuesday.**
- 12.30 p.m.—Tune in.
  - 12.55 p.m.—First local news bulletin. Market reports. Cables.
  - 1 p.m.—Time signal from Perth Observatory.
  - 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
  - 1.5 p.m.—Studio Instrumental Trio.
  - 1.30 p.m.—Close down.
  - 2.30 p.m.—Tune in.
  - 2.55 p.m.—Musical programme, including pianoforte selections by Miss Evelyn Williams.
  - 3.15 p.m.—Close down.
  - 4 p.m.—Studio Instrumental Trio.
  - 4.30 p.m.—Close down.
  - 4.45 p.m.—Tune in.
  - 4.58 p.m.—Stories for Tiny Tots by Annie Eate.
  - 7.50 p.m.—Uncle Leslie will talk to the kiddies.
  - 7.50 p.m.—Stock and Share Intelligence. Market reports. Cables, News by courtesy of "The West Australian" Newspaper Co.
  - 7.45 p.m.—Talk.

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8 p.m.—Time signal from Perth Observatory.  
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 8.2 p.m.—Concert Night.  
 Musical programme, including artists.  
 10 p.m.—Second news bulletin by courtesy of "The Daily News" Newspaper Co.  
 Ships within range announcement.  
 Weather report and forecast.  
 10.30 p.m.—Close down.

## Wednesday, June 1 2FC, SYDNEY

### MIDDAY SESSION.

12 noon—"Big Ben" and programme announcements.  
 12.2 p.m.—Stock Exchange, first call.  
 12.3 p.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.  
 12.5 p.m.—Studio Music.  
 12.10 p.m.—Summary of "Sydney Morning Herald" news service and cables.  
 12.15 p.m.—Eugly Wireless Music.  
 12.25 p.m.—A talk on Home Cooking and Recipes by Miss Ruth Ford.  
 12.40 p.m.—Miss Faith Mallaby, mezzo: "Think in the Darkness" (Mallinson).  
 12.45 p.m.—Studio Music.  
 1 p.m.—"Big Ben." Weather intelligence.  
 1.3 p.m.—"Evening News" midday news service.  
 Producers' Distributing Society's Report.  
 1.30 p.m.—Studio Music.  
 1.32 p.m.—Stock Exchange, second call.  
 1.30 p.m.—Marching music for the school children.  
 1.40 p.m.—Miss Faith Mallaby, mezzo: "Ferryman Love" (Borsdorf).  
 1.45 p.m.—Studio Music.  
 2 p.m.—Close down.

### AFTERNOON SESSION.

2 p.m.—"Big Ben" and announcements.  
 2.2 p.m.—Columbia records recorded by 2FC artists, including:  
 Mr. Robert L. Harper, tenor.  
 Miss Eileen Boyd, contralto.  
 Mischa Dobrinski, violinist.  
 Miss Gladys Vorous, soprano.  
 2FC Dance Orchestra.  
 3.30 p.m.—Marching music for the school children.  
 3.40 p.m.—From Farmer's Tea Rooms:  
 Mr. Frank Botham, baritone:  
 "Drake Goes West" (Sanderson).  
 3.45 p.m.—A Talk.  
 3.55 p.m.—Miss Sylvia Sheridan, mezzo:  
 "Had You But Known" (Dezza).  
 4 p.m.—From Farmer's Tea Rooms:  
 Miss Eva Webb-Jones, soprano:  
 "A Birthday" (Cowen).  
 4.5 p.m.—Miss Anne Mills, mezzo:  
 "Sing, Joyous Bird" (Phillips).  
 4.10 p.m.—Studio Music.  
 4.15 p.m.—Miss Sylvia Sheridan, mezzo:  
 "Wait" (D'Harlelot).  
 4.20 p.m.—From Farmer's Tea Rooms:  
 Mr. Frank Botham, baritone:  
 "Tommy Lad" (Margston).  
 4.25 p.m.—Studio Music.  
 4.35 p.m.—Miss Anne Mills, mezzo:  
 "The Bitterness of Love" (Dunn).  
 4.40 p.m.—FROM FARMER'S TEA ROOMS:  
 Miss Eva Webb-Jones, soprano:  
 "A Brown Bird Singing" (Wood).  
 4.45 p.m.—Stock Exchange (third call).  
 4.46 p.m.—Studio music.  
 5 p.m.—"Big Ben." Close down.

### EARLY EVENING SESSION.

5.45 p.m.—The Chimes of 2FC.  
 5.50 p.m.—The "Hello Man" talks to the children.  
 6.15 p.m.—Uncle Gus and "Jerry" will entertain the children.  
 5.45 p.m.—Dinner Music.  
 7 p.m.—"Big Ben." Live sporting news.  
 7.10 p.m.—Dalgely's Market Reports (wool, wheat, stock).

5.15 p.m.—Fruit and Vegetable Markets.  
 7.30 p.m.—Weather and shipping intelligence.  
 7.35 p.m.—Late "Evening News" news service.  
 NIGHT SESSION.

7.45 p.m.—The chimes of 2FC and announcements.  
 7.50 p.m.—Studio items.  
 8 p.m.—BROADCAST FROM THE LYRIC THEATRE, SYDNEY:  
 Jimmy Eakin and his Jazz Band.  
 8.10 p.m.—From the Studio:  
 Mr. Sydney Galland, baritone.  
 8.14 p.m.—Mischa Dobrinski, violinist.  
 8.20 p.m.—Madame Emily Marks, soprano:  
 (a) "Waltzer" (Schubert).  
 8.23 p.m.—BROADCAST FROM THE LYRIC THEATRE, SYDNEY:  
 Orchestral Items.  
 8.54 p.m.—From the Studio:  
 Mr. Sydney Galland, baritone.  
 8.40 p.m.—Mischa Dobrinski, violinist.  
 8.45 p.m.—LYRIC THEATRE ORCHESTRA.  
 8.50 p.m.—Madame Emily Marks, soprano:  
 (a) "Waltzer" (Schubert).  
 (b) "If We Sailed Away" (Phillips).  
 9.8 p.m.—Mischa Dobrinski, violinist.  
 9.7 p.m.—Mr. Sydney Galland, baritone.  
 10 p.m.—BROADCAST FROM THE LYRIC THEATRE, SYDNEY:  
 Items by Jimmy Eakin's Jazz Band.  
 9.20 p.m.—Madame Emily Marks, soprano:  
 "Little Fleur de Lys" (Marrin).  
 9.25 p.m.—Captain Frank Murray will commence a new series of Adventure Talks dealing with stories of the South Polar Expedition by Douglas Mawson's party. Captain Hurley will be assisted by Rus Garing, Laurence Halbert, and other 2FC artists.  
 10 p.m.—Broadcast from the Lyric Theatre, Sydney: Orchestral Items.  
 10.20 p.m.—Part Two of the Douglas Mawson Story as told by Captain Frank Hurley.  
 10.45 p.m.—Broadcast from the Wentworth Hotel, Sydney:  
 The New Wentworth Souvenir Dance Orchestra under the baton of Mr. Frederick Leighton.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2BL, SYDNEY

### Wednesday,

### DAY SESSION.

12 noon—G.P.O. Clock and chimes.  
 12.1 p.m.—Special Ocean forecast and Weather report.  
 12.3 p.m.—Musical programme from the Studio.  
 12.13 p.m.—Information, Mails and Shipping and movements of important ships.  
 12.16 p.m.—Sydney Stock Exchange calls.  
 12.18 p.m.—Bouts in call by wireless.  
 12.20 p.m.—Fruit Market report.  
 12.21 p.m.—Vegetable Market report.  
 12.22 p.m.—London Metal Market report.  
 12.24 p.m.—Dairy and Farm Produce Market report.  
 12.29 p.m.—Racing resume.  
 12.30 p.m.—G.P.O. Clock and chimes.  
 12.31 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Sporting information ("Sun").  
 12.45 p.m.—Musical programme from the Studio.  
 1 p.m.—G.P.O. Clock and chimes.  
 1.1 p.m.—Pianoforte Lecture Recital by Arnold R. Moio, B.A., from the Fine Art Gallery, Anthony Harder's.  
 1.40 p.m.—Musical programme from the Studio.  
 1.50 p.m.—Sydney Stock Exchange calls.  
 1.55 p.m.—News from the "Sun."  
 2 p.m.—G.P.O. Clock and chimes.  
 Racing information broadcast immediately after each race by courtesy of the "Sun."  
 2.1 p.m.—Talk to Children and Special Entertainment for Children in Hospital.  
 2.30 p.m.—Talk on Sport by Miss Owen Varley. Social Notes. Replies to Correspondents by Mrs. Jordan. Welfare talk by Dr. Morris.

3.1 p.m.—News from the "Sun."  
 3.15 p.m.—Musical programme from the Studio.  
 3 p.m.—G.P.O. Clock and chimes.  
 3.30 p.m.—G.P.O. Clock and chimes.  
 3.31 p.m.—Talk on "The Great Composers," illustrated on Strathairn Piano.  
 3.40 p.m.—News from the "Sun."  
 4 p.m.—G.P.O. Clock and chimes.  
 4.1 p.m.—Musical programme from the Studio.  
 4.15 p.m.—Serial Story.  
 4.30 p.m.—G.P.O. Clock and chimes.  
 4.35 p.m.—Musical programme from the Studio.  
 4.41 p.m.—News from the "Sun."  
 4.50 p.m.—Basing resume.  
 4.52 p.m.—Producers' Distributing Society's Fruit and Vegetable Market report.  
 4.54 p.m.—Resume of night's programme.  
 4.55 p.m.—Announcements.  
 4.58 p.m.—Special Ocean forecast.  
 5 p.m.—G.P.O. Clock and chimes.  
 Close down.

### EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.  
 5.45 p.m.—Daddy Long Legs and the Yiddies.  
 5.45 p.m.—Musical programme from the Studio.

### SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.  
 Australian Mercantile Land and Produce Weather report and forecast by courtesy of Govt. Meteorologist.  
 Producers' Distributing Society's Fruit and Vegetable Market report.  
 Stock Exchange reports.  
 Grain and Fodder report ("Sun").  
 Daily Produce report ("Sun").  
 7.10 p.m.—Country News from the "Sun."  
 7.20 p.m.—Talk by a member of the St. John's Ambulance Brigade.  
 8 p.m.—G.P.O. Clock and chimes.  
 Broadcasters' Typical Chorus.  
 8.3 p.m.—Half-an-hour's Programme of music from the Salon of the Strathairn Place.  
 8.33 p.m.—Broadcasters' All-Sports Expert will talk on "Boxing."  
 8.45 p.m.—Broadcasters' Train.  
 3.45 p.m.—Weather report and forecast by courtesy of Mr. C. J. Morrey, Govt. Meteorologist.  
 9 p.m.—G.P.O. Clock and chimes.  
 Resume of following day's programme.  
 9.3 p.m.—Miss Marie Maxwell (Comedienne).  
 9.10 p.m.—Mr. Dud Osborne (Descriptive Vocalist).  
 9.15 p.m.—Miss Nellie M. Ferguson (Songs at the Piano).  
 9.25 p.m.—Mr. Bert Warner (Comedian).  
 9.35 p.m.—Broadcasters' Train.  
 9.43 p.m.—Mr. Arthur Hayes (Bass).  
 9.50 p.m.—Miss Marie Maxwell.  
 9.57 p.m.—Osborne and Warner.  
 10.9 p.m.—Miss Nellie M. Ferguson.  
 10.10 p.m.—Mr. Arthur Hayes.  
 10.23 p.m.—Cec. Morrison and His Discographers broadcast from the ballroom of the Bondi Casino. During intervals between dances news reports by courtesy of the "Sun" will be broadcast.  
 11 p.m.—G.P.O. Clock and chimes.  
 National Anthem.

## 2GB, SYDNEY

### Wednesday.

### MORNING SESSION.

6 a.m.—Music.  
 6.5 a.m.—"Cheerio" Talk.  
 6.15 a.m.—Music.  
 9.25 a.m.—Psychological Class.  
 9.40 a.m.—Music.  
 9.45 a.m.—Health Talk.  
 10 a.m.—Music.

### AFTERNOON SESSION.

2.30 p.m.—Music.  
 3.37 p.m.—  
 3.53 p.m.—Music.  
 4.5 p.m.—  
 4.30 p.m.—Close down.

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Companion to the Famous B406)

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THE VALVE FOR THE JOB.**

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As described in this week's  
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Here is a list of parts from which the experimenter can choose, with the assurance that he is purchasing the best apparatus for good results, service, and which will always be useful for any other type of receiver.

- 1 Panel 21 x 7 x 3/4; Bakelite, 8/-; Dilecto, 10/6.
- 1 Browning Drake Kit; Redlocks 42/-; Grodan 42/-.
- 2 5005 Var. Condensers: Advance 10/6; Pilot 14/- each.
- 2 Vernier Dials: Emmco. Bakelite 7/6; Pilot 6/0 each.
- 1 Bradletat ..... 15/-
- 1 Rheostat Dejar, 2/0; H. & H., 4/6 on.
- 1 Buttery Switch Cutler, Hammer, 2/6
- 1 Variable Grid Leak, Electrad 8/4; Bradley Leak 15/-.
- 1 Marco Single Circuit Jack ..... 1/6
- 1 Marco Double Circuit Jack ..... 2/6
- 1 Benjamin Valve Socket ..... 5/-
- 2 Buffalo Valve Sockets ..... 1/8 each
- 1 Geoc 4-1 Transformer ..... 36/-
- 1 Impedance Unit 16/-, or F.M.C. Transformer, 12/6.
- 1 25 T.C.C. Condenser 5/6, 1 mfd. T.C.O. 7/6.
- 1 .001 Dab. 2/3, 1 .001 Dubitter, 2/6
- 1 Terminal Board, with Nine Terminals, 3/6.
- 1 Terminal Board, with three Terminals, 1/6.
- 1 doz. Bus-Bar Wire ..... 1/-
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Sydney

#### EVENING SESSION.

- 6.30 p.m.—Children's Session.
- 7 p.m.—Music.
- 7.5 p.m.—Talk.
- 7.15 p.m.—Music.
- 8.0 p.m.—Talk.
- 8.20 p.m.—Music.
- 8.35 p.m.—Talk.
- 8.45 p.m.—Violin Solo: MONICA HORDER.
  - 1. "Londonderry Air."
  - 2. "Arab Song."
- 8.50 p.m.—Address by Professor Ernest Wood.
- 8.50 p.m.—Vocal Trio:
  - 1. "The Bells of St. Michael's Tower."
  - 2. "Tightly Tread."
- ELISIE BROWN, EVA CROFT, CLEMENT HOSKING.
- 8.50 p.m.—Duets for Two Violas, with Piano accompaniment:
  - DAN SCULLY, MONICA HORDER, ADA BROOK.
- 8.40 p.m.—Piano Solo: ADA BROOK.
  - 1. "Nigger Dance" (Cyril Scott).
  - 2. "Ballade" (Schopin).
- 8.35 p.m.—Violin Solo: DAN SCULLY.
  - 1. "Andante" (Saint Saens).
  - 2. "Topical Talk."
- 8.15 p.m.—Song Cycle: "A Pageant of Summer."
  - CLEMENT HOSKING QUARTETTE.
  - 1. Quartette "Flowers for You."
  - 2. Song: "What's o'clock."
  - 3. Song: "SISIE BROWN."
  - 4. Song: "Mistletoe"; Miss Eva Craft.
  - 5. Duet, "None so Pretty"; Miss Elsie Brown, C. Hosking.
  - 6. Song: "Mignonette"; MR. FREDERICK TUBBELL.
  - 6. Quartette, "Speedwell."
- 8.05 p.m.—Duets for Two Violas with Piano accompaniment: DAN SCULLY, MONICA HORDER, ADA BROOK.
- 8.45 p.m.—Vocal Trio:
  - 1. "The Wreath"; ELISIE BROWN, EVA CROFT, CLEMENT HOSKING.
- 9.55 p.m.—"Cherry" Talk.
- 10 p.m.—Close down.

## 3.10, MELBOURNE.

#### MIDDAY SESSION.

- THE STUDIO ORCHESTRA.
- LEW JAMES & DODIE WOLFE.
- MAXWELL CAREW.
- CAPT. DONALD MACLEAN.
- Musical Half Hour, MR. SUTTON CROWE.
- Announcer ..... MAURICE DUDLEY
- Accompanist ..... AGNES FORTUNE
- MUSIC AND STORY.
- 12 noon—Time signal. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. Stock Exchange information. "Arcus" and "Herald" news services.
- 12.20 p.m.—LEW JAMES:
  - 1. "Jealousy."
- 12.27 p.m.—STUDIO ORCHESTRA:
  - "Second Lilia Time Selection" (Schubert).
- 12.27 p.m.—Stock Exchange information.
- 12.40 p.m.—DODIE WOLFE:
  - "Humorous Impressions."
- 12.47 p.m.—STUDIO ORCHESTRA:
  - "Intermezzo" (Rosse).
- 12.54 p.m.—Musical Half Hour.—MR. SUTTON CROWE:
  - Iris Rothstadt, pianist.
  - Iris Williams, vocalist.
  - Bob Richmond, violinist.
  - Iris Rothstadt:
    - (a) Vesuvio Menuetto (Spagnoli).
    - (b) Night in May (Paingreen).
  - Iris Williams:
    - (a) The Fuchsia Tree (Quilter).
    - (b) Spring's Awakening (Sanderzon).
  - Bob Richmond:
    - "Romance" (Svensdon).
  - Iris Williams:
    - (a) Of the North I Sing (Oliver).
    - (b) Thank Me Not (Mallinson).
  - Bob Richmond:
    - Rondino (Bachoven-Kreisler).
    - Melody (Gluck-Kreisler).

- 1.23 p.m.—Weather report.
- 1.30 p.m.—STUDIO ORCHESTRA:
  - "Unforgotten Hours" (Arncliffe).
- 1.35 p.m.—CAPT. DONALD MACLEAN:
  - "The Buccaneers seek a new Treasure World."
- 1.50 p.m.—MAXWELL CAREW:
  - "Humorous Sketches."
- 2 p.m.—Description of Hurdle Race, 2 miles. Ballarat Turf Club, by "Musket," of the "Sporting Globe."
- 2.2 p.m.—Close down.
- 2.2 p.m.—Description of Trial Handicap, 5/8 furlongs. Ballarat Turf Club, by "Musket," of the "Sporting Globe."
- 2.35 p.m.—Close down.

#### AFTERNOON SESSION.

- Speakers, "MUSKET" SISTEE PECK.
- Artists:
  - JOE BRENNAN & IDA NEWTON
  - AGNES FORTUNE.
  - D'MARA AND BURKE.
  - "THE FUTURISTS" AND LEE WHITE & CLAY SMITH.
- THE STUDIO ORCHESTRA.
- Announcer ..... MAURICE DUDLEY
- Accompanist ..... AGNES FORTUNE
- 2 p.m.—Description of Forest Handicap, 1 mile. Ballarat Turf Club, by "Musket" of the "Sporting Globe."
- 3.10 p.m.—STUDIO ORCHESTRA:
  - Selection, "You're in Love" (Friml).
- 3.10 p.m.—JOE BRENNAN & IDA NEWTON:
  - Joe Brennan, dance impression, "Champagne Bottle."
  - Ida Newton, "Arguments."
- 3.17 p.m.—AGNES FORTUNE, piano:
  - "Rhapsodie Mignonne" (Kochli).
- 3.22 p.m.—D'MARA AND BURKE will entertain you with selections, "Old Time Music Hall Songs."
- 3.30 p.m.—Description of Brush Stakes Race, 2 miles. Ballarat Turf Club, by "Musket" of the "Sporting Globe."
- 3.35 p.m.—STUDIO ORCHESTRA:
  - "Lustig."
- 3.40 p.m.—LEE WHITE & CLAY SMITH:
  - Selections from their Repertoire.
- 3.50 p.m.—STUDIO ORCHESTRA:
  - "Vive la Danse" (Panck).
- 4 p.m.—Description of Wolber Handicap, 7 furlongs. Ballarat Turf Club, by "Musket" of the "Sporting Globe."
- 4.5 p.m.—"THE FUTURISTS" present their Radio Revue.
  - "TITTLE TATTLE.
  - An Opening Chorus by the Company.
  - GUS DAWSON will sing a song: "A Tabloid Sketch—THE END."
  - IRA VANDA says she "Hopes it keeps him for Mother."
  - DISMAL DESMOND will tell an episode of his humal life.
  - THE FINALE by IRA VANDA and COMPANY.
- 4.20 p.m.—STUDIO ORCHESTRA:
  - "Midi d'Amour" (Rieckl).
- 4.30 p.m.—Description of Flying Handicap. Ballarat Turf Club, by "Musket" of the "Sporting Globe."
- 4.35 p.m.—SISTEE PECK:
  - Infant Welfare.
- 4.45 p.m.—"Herald" news service. Stock Exchange information.
- 5 p.m.—Close down.

#### EVENING SESSION.

- CHILDREN'S HOUR.
- Storytellers, "MARY, MARY," CAPT. DONALD MACLEAN.
- REMYL HOLT.
- Accompanist ..... ELISIE BRADSHAW
- 8.40 p.m.—Answers to letters and birthday greetings.
- 8.55 p.m.—BERYL HOLT, contralto, has two little songs for the children.
- 8.55 p.m.—"MARY, MARY."
- "The monkey who was too old to work."
- 9.15 p.m.—BERYL HOLT, contralto, has two more little songs.
- 9.20 p.m.—CAPT. DONALD MACLEAN:
  - "Thal." "Great Sea Artist and Valiant Commander"—Captain Bartholomew Sharpe.

1.30 p.m.—"Avon" and "Herald" news service. Weather and general news information by the Australian Aerial Service, Ltd.

1.45 p.m.—Stock Exchange information. Overseas shipping.

2.00 p.m.—Fish market reports by J. B. Stewart, Ltd. Rabbit prices.

2.15 p.m.—Market reports by the Victorian Producers' Coop. Co., Ltd., Newmarket show sale: Poultry, Grain, straw, hay, live stock. Dairy produce, Potatoes and onions. Fruit market reports by the Wholesale Fruitgrowers' Association, compiled by "The Fruit World," exclusive to M.O.

#### NIGHT SESSION.

Speakers:  
MR. W. R. JEWELL.  
CAPTAIN PETERS.

Articles:  
JAMES HILEY.  
JOE BRENNAN & IDA NEWTON.  
META PELHAM, and  
LEE WHITE & CLAY SMITH.  
CELEBRITY FOUR.  
FRAIRAN CITY BAND.  
THE VICTORY THEATRE.  
JOE ARONSON AND HIS SYNCO-PAT  
ING SYMPHONISTS.

Announcer: ALFRED ANDREW

Accompanied by: AGNES FORTUNE  
11.5 p.m.—Under the auspices of the Department of Agriculture, Mr. W. R. Jewell, Agricultural Research Chemist: "Stock Food Legislation."

7.30 p.m.—Under the auspices of the Royal Victorian Institute of Architects, Mr. Leigh-ONN F. Irwin, A.R.I.B.A., A.R.V.I.A., director of the Architectural Atelier, Melbourne University, will speak on: "Architectural Education."

7.45 p.m.—CAPTAIN PETERS:  
"Boys, Wives and Otherwise."

8 p.m.—FRAIRAN CITY BAND:  
"Doubt of Darling" (Rimzey).  
Popular No.: "Moonlight on the Ganges" (Gonowsky).

"The more we are together" (Campbell).

8.15 p.m.—JAMES HILEY, tenor:

"My Dream" (Toni).

"Nirvana" (Adams).

8.30 p.m.—JOE BRENNAN AND IDA NEWTON:  
"Frogmen."

"The Waiter."

8.45 p.m.—SAFETY MESSAGE:

The Royal Automobile Club of Victoria's "Safety Message for to-day is for Motorists: Exercise the greatest care at uncontrollable intersections. Give the vehicle on your right the right of way."

8.50 p.m.—FRAIRAN CITY BAND:

"Sweetie" "Light Canary" (Huppe).

8.55 p.m.—META PELHAM, electrician:

"The Feast of Bona."

"Water Mains."

#### NIGHT SESSION.

9.10 p.m.—LEE WHITE and CLAY SMITH will entertain you with selections from their repertory.

9.20 p.m.—Aromatization.

9.30 p.m.—FRAIRAN CITY BAND:

Indie, "Bustle Scenes" (Rimzey).

9.40 p.m.—CELEBRITY FOUR:

Extract from "Faint."

Art: "Two Brave Hearts" (J. Alexander Brown).

Inst. "Let Me Gaze" Saffis, Arney and Heaton White.

Art: "When all was Young" Gertrude Hutton.

Tris from "Funat."

9.55 p.m.—FRAIRAN CITY BAND:

March, "The Black Knight" (Rimzey).

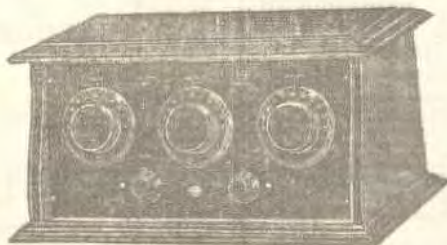
10 p.m.—VICTORY THEATRE ORCHESTRA, under direction of Mr. E. Barrie, transmitted from the Victory Theatre, St. Kilda.

10.05 p.m.—"Avon" news service. British show weather news. Meteorological information. Aromatization.

11 p.m.—OUR GREAT THOUGHT:

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- 11.1 p.m.—**JOE ARONSON AND HIS SYNCROPATING SYMPHONISTS:**  
"While the Sahara Sleeps" (Nichols).  
"Lonesome and Sorry" (Davis).  
"Let me ease in the morning" (Rice).  
"Blame it on the walls" (Kahn).  
"Dug on the piano" (Shapiro).  
"The me to your apron strings" (Shay).  
"Me Too-Hoo, Ho, Ha, Ha" (Woods).  
"Crying for the Moon" (Conley).  
"Original Moonlight" (Semanuel).  
"The Far-away Bells" (Gordon).  
"Oh, Miss Hannah" (Deppen).  
"Love Round" (Rupp).  
"That's Why I Love You" (Donaldson).  
"There's a Boatman on the Vol" (Lagan).  
"My Cutie's Due at Two to Two Today" (Robin).  
"Nobody but you" (O'Hagan).  
11.49 p.m.—**GOD SAVE THE KING.**

**3AR, MELBOURNE**

- Wednesday.  
**MORNING SESSION.**  
11.0 a.m.—Selections on the Brunswick Fanalope.  
11.30 a.m.—British Official Wireless Press received from Rugby Super Wireless Station, England; Express Train Information; "Age" News Bulletin, exclusive to 3AR.  
12 noon—Time Signal Chime from G.P.O.; Studio Barometer and Outdoor Thermometer Readings; 1st Weather Forecast; Events of the day.  
12.5 p.m.—Musical Selections from the Studio.  
12.59 p.m.—Stock Exchange News; Market Reports.  
12.40 p.m.—Musical Selections from the Studio.  
12.35 p.m.—Shipping and Mail Notices.  
1.0 p.m.—Close Down.

- AFTERNOON SESSION.**  
**BALLARAT TURF CLUB.**  
Results after each race and at half-hourly intervals.  
2.30 p.m.—Studio Orchestra, Under the Direction of Mr. Ronald Breesley; "Coppelia Ballet" (Leo Delibes).  
2.45 p.m.—Mr. Ernle Pettifer, Saxophones; "Nola" (Arnold).  
2.49 p.m.—3AR Dance Orchestra; "I'm Going to Plant a Rose in California." "Schooldays Sweetheart."  
2.55 p.m.—Miss E. Breesley, Piano; "Nocturne B. Major" (Chopin).  
3.8 p.m.—Studio Orchestra; "Three Dances from Tom Jones" (E. Goeman).  
3.15 p.m.—Mr. B. Pettifer, Violin; "Dolors" (Manin).  
3.29 p.m.—3AR Dance Orchestra, "Fire."  
"Ho, Ho, Ha, Ha, Me Too"  
3.45 p.m.—Mr. Squire, Baritone; "When Thy Blue Eyes" (Lazsen).  
"Credo" (Gibelli (Verdi)).  
3.53 p.m.—Studio Orchestra; "Over the Waters" (Hofmann).  
4.0 p.m.—Time Signal Chime from G.P.O.; 2nd Weather Forecast; 3AR Dance Orchestra; "Meadow Lark."  
"My Cutie's Due at Two to Two, Today."  
"Cryin' for the Moon."  
4.25 p.m.—Mr. Squire, Baritone; "Prologue" from Pagliacci (Leoncavallo).  
"Desert Love Songs" (Willoughby).  
4.29 p.m.—Studio Orchestra; "Selections."  
4.55 p.m.—Evening Amusement Guide.  
5.0 p.m.—Time Signal Chime from G.P.O.; Close Down.

- EARLY EVENING SESSION.**  
6.45 p.m.—Children's Corner, Jimmy Jackeroo and the Farnyard Five.  
**EVENING SESSION.**  
7.30 p.m.—Mr. Syd. Covey, Capt. Collingwood P.C.; Talk, "Football Prospects."  
7.50 p.m.—British Official Wireless Press; Studio Barometer Readings.  
8.0 p.m.—Time Signal Chime from G.P.O.; Mr. Harry Loft, Easlo; "Poppies and Wheat" (Rucks).  
"The College Rag" (Hauer).

- 8.7 p.m.—Miss Eileen Pascoe Webb, Convent; "If I Were Not Blind" (Lichten).  
"He was Deceived" from the Messiah (Handel).  
8.10 p.m.—Mr. Bert Shilling, in a New humorous monologue.  
"I'm Going to Glasgow" (Fife).  
8.21 p.m.—Mr. Syd. Falk, Flute; "Gavotte" (A. Woodall).  
"Musarka" (G. P. Percival).  
8.29 p.m.—Mr. Will Davison, Baritone; "Russian Love Song" (Lardell).  
"For You Alone" (Geshi).  
8.35 p.m.—Mr. J. Harcourt-Bailey, Entertainer; "Old Job" (Cookley Character Sketch). (Maschecki).  
8.41 p.m.—Miss Minnie Marks, Soprano; "A Memory" (Parks).  
8.45 p.m.—Mr. Harry Loft, Easlo; "The Whistling Nig" (Grimshaw).  
"Radio Capers" (Morley).  
8.55 p.m.—Mr. Bert Shilling, Humorous Entertainer; "Not a Game" (O'Neil) (Thurfan-Austin).  
9.2 p.m.—Miss Edith Oatman, Hon. Organizer of the City Newsboys Society; "A Night at the Newsboys Club."  
9.17 p.m.—Miss Eileen Pascoe-Webb, Contralto; "Four by the Clock" (Mallinson).  
"Dream Toys" (Caldman).  
9.24 p.m.—Mr. Will Davison, Baritone; "Lovely Smile of Sister Kind" (Praders).  
"The Skipper of St. Ives" (Roeseck).  
9.31 p.m.—Mr. Syd. Falk, Flute; "By the Stock" (Paul Metzger).  
"Andalus" (Powers).  
9.35 p.m.—Mr. J. Harcourt-Bailey, Entertainer; "The Infocase" (Desmond Kelly).  
"The Colosseum," an English Character Sketch (Winter).  
9.48 p.m.—Miss Winkle Marks, Soprano; "You are in a Good Luck" (Glanville).  
"Japanese Love Song" (Brain).  
9.53 p.m.—Mr. Clifford Cowley, Baritone; "Just a Cottage Small" (Hawley).  
"Hush" (O'Hanlon).  
10.0 p.m.—Time Signal Chime from G.P.O.; Studio Barometer Readings; "Age" News Bulletin; Loggan's Ballroom Orchestra.  
11.0 p.m.—Time Signal Chime from G.P.O.; Close Down.

**4QG, BRISBANE.**

- Wednesday.  
**EARLY MORNING SESSION.**  
6.30 a.m.—Physical Culture Session.  
6.50 a.m.—Close Down.  
**MIDDAY SESSION.**  
1.0 p.m.—Market Reports; Weather Information; "The Daily Mail" and "The Daily Standard" News.  
1.20 p.m.—From the G.P.O.; Lunch Hour Music Played by the Postal Institute Orchestra.  
1.55 p.m.—From the Observatory; Standard Time Signal.  
2.0 p.m.—Close Down.  
**AFTERNOON SESSION.**  
3.30 p.m.—From Hotel Carlton; Afternoon Tea Music Played by Hotel Carlton Symphony Orchestra.  
4.10 p.m.—From the Studio; "The Telegraph" News.  
4.30 p.m.—Close Down.  
**EARLY EVENING SESSION.**  
6.0 p.m.—"Daily Standard" News; Announcements.  
6.30 p.m.—The Children's Hour; Stories by "Little Miss Brisbane."  
7.0 p.m.—Market Reports; Stock Reports.  
7.30 p.m.—Weather News; Announcements.  
7.45 p.m.—Standard Time Signal.  
7.45 p.m.—Lectures; "Diseases of Cattle" by A. J. McKenzie (lectures in Animal Husbandry, Queensland Agricultural High School and College).  
**NIGHT SESSION. BROADCAST SPECIAL PROGRAMME: BROADCAST FROM A COALMINE.**  
The whole of tonight's programme will be broadcast by Hetherington and Rylance Ltd., to be broadcast from the New Chum No. 3 Colliery at Dimmore.  
Two complete sets of portable apparatus

will be set up at the mine, and will be used for the transmission.

The programme will be divided into three sections. During the first of these a description of all the machinery used at the surface will be relayed direct from the pit mouth.

During the second a full description of the mine itself and the method of securing the coal will be given direct from the bottom of the pit.

A concert party will then be taken down the mine and the third section of the programme will comprise a concert relayed from one of the tunnels at the bottom of the main shaft of the colliery.

## PART I.

8.9 p.m.—From the New Chum No. 2 Colliery, Dromore—From the Pit Head: A description of the machinery.

## PART II.

8.55 p.m.—From the Bottom of the Mine: A description of how coal is mined.

9.0 p.m.—From the Bottom of the Main Shaft:

A concert by 400 artists—Chorus, "Home Sweet Home," 400 artists (accompanied by the Radio Orchestra (conductor, Mr. A. K. Fotheringham); male quartette, "The Lassie Now" (Hermes), the Lyric Male Quartette; Hawaiian instrumentalists, the

Kalua Trio; baritone solo, "Frieda" (David); Mr. L. Sheridan; monologue; violin solo, "Hercule D'Amour" (von Blasi); Mr. H. Scott MacCallum; one-step, "Let D'Pop" (Alton), the Studio Orchestra;

concert solo, "Faisles From the Moon" (Rowell); Miss Jill Mathews, Hawaiian instrumentalists, the Kalua Trio; contralto solo, "Love's Old Sweet Song" (Mollay); Miss Dorothy Brown; male quartette, "Poor Old Joe" (Parsley); the Lyric Male Quartette; march, "Signal Corps" (Mackie-Reese); the Studio Orchestra; Hawaiian instrumentalists, the Kalua Trio; male quartette, "My Old Plantation Home" (Fischer);

the Lyric Male Quartette; baritone solo, "Eulis" (Sanderson); Mr. L. Sheridan; concert solo, "Memories of Elysium" (Gillies); Mr. H. Jackson (accompanied by the Studio Orchestra); one-step, "Georgia Girl" (King); the Studio Orchestra.

10.0 p.m.—From the Studio: "The Daily Mail" News; Weather News; Close Down.

## 5CL, ADELAIDE.

Wednesday.

## MORNING SESSION.

12 noon—G.P.O. Chimes.

12.1 p.m.—Recitals on the "New Reproducing Horns" and the "Austons Reproducer."

12.30 p.m.—Advertising news service.

12.45 p.m.—Market reports.

1 p.m.—G.P.O. Chimes.

1.1 p.m.—Musical programme continued.

1.30 p.m.—G.P.O. Chimes and close down.

## AFTERNOON SESSION.

1.55 p.m.—G.P.O. Chimes.

2.1 p.m.—Relay from the Made Leaf Cafe—Orchestral selections.

2.45 p.m.—From the Studio—"Afternoon Tea Talk" by the Rev. G. E. Hale, B.A.

3 p.m.—G.P.O. Chimes.

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

3.35 p.m.—Station announcements.

3.55 p.m.—G.P.O. Chimes and close down.

## EVENING SESSION.

8 p.m.—G.P.O. Chimes.

8.1 p.m.—Dinner Music by the Cotter Garden Orchestra.

8.45 p.m.—Bedtime stories.

9.15 p.m.—Market reports.

9.35 p.m.—Boy Scout's Corner.

9.58 p.m.—Funding's Scientific Talk.

10 p.m.—G.P.O. Chimes.

10.1 p.m.—Song, Miss Grace Cusston

10.2 p.m.—Cello solo, Mr. F. Gibbons.

10.3 p.m.—One-Act Play, Mr. Frank Johnston

and Miss Kath Wishart

10.45 p.m.—Comic song, Mr. Geo. Whittle.

10.55 p.m.—Duet, Miss Hilda and Mr. Colin

Salmond.

11.10 p.m.—Motor Talk by "Accelerator."

11.25 p.m.—Violin Solo, Miss Helen Magray.

11.50 p.m.—One-Act Comedy, Mr. Frank Johnston and partner.

# F.M.C.

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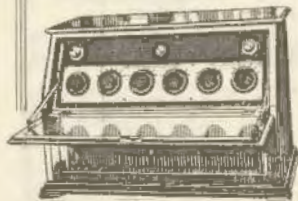
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Write for full particulars and prices of "Sterling" Radio Receivers, Loud Speakers and Components.



9 a.m.—G.P.O. Chimes.  
9.1 p.m.—Weather report.  
9.3 p.m.—Dakety's wheat report.  
9.4 p.m.—One hour of Grand Opera. Selections on the "New Superphonic Sonora," from Allan's Music Warehouse.  
10 a.m.—G.P.O. Chimes.  
10.1 p.m.—"Advertiser" news service.  
10.15 p.m.—From Studio.  
Song, Miss Grace Dinslow.  
10.20 p.m.—Glee-Act Comedy, Mr. Frank Johnson and partner.  
10.25 p.m.—Song, Miss Hilda Saimon.  
10.34 p.m.—Comedy, Mr. Geo. Horton.  
10.44 p.m.—Cello solo, Mr. Fred. Gibbons.  
10.54 p.m.—Song, Miss Hilda Saimon.  
10.55 p.m.—Pianoforte solo, Mr. Lawrence Harrist.  
11 p.m.—G.P.O. Chimes and close down.

**6WF, PERTH.****Wednesday.**

12.30 p.m.—Tune in.  
12.35 p.m.—First local news bulletin.  
Market reports.  
Cables.  
1 p.m.—Time signal from Perth Observatory.  
1.10 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
1.2 p.m.—Lunch Hour Concert.  
Musical programme, arranged by Messrs. Musgrave, Limited, relayed from Lyria Lodge, Murray-street.  
1.30 p.m.—Studio Quartette, conducted by Mr. Val. Smith.  
2 p.m.—Close down.  
3.30 p.m.—Tune in.  
3.45 p.m.—Musical programme.  
4 p.m.—Studio Instrumental Trio.  
4.30 p.m.—Close down.  
6.45 p.m.—Tune in.  
6.50 p.m.—Children's playette, by Uncle Duffy, with Auntie Kate and Evelyn, and Uncles Henry, Perry, Leslie, and Duffy.  
7.15 p.m.—Stock and Share Intelligence.  
Market reports.  
Cables. News bulletin by courtesy of "The West Australian" Newspaper Co.  
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.  
8.2 p.m.—With the Trio.  
The Studio String Trio:  
Miss Evelyn White, A.R.C.M., piano.  
Mr. H. G. Busham, cello.  
Mr. H. T. Newton, violin.  
10 p.m.—Second news bulletin by courtesy of "The Daily News" Newspaper Co.  
Ships within range announcement.  
10.30 p.m.—Close down.

## Thursday, June 2

### 2FC, SYDNEY

**MIDDAY SESSION.**

12 noon—"Big Ben" and programme announcement.  
12.1 p.m.—Stock Exchange, first call.  
12.3 p.m.—Official weather forecast, rainfall, temperatures, astronomical sunrises, shipping intelligence, mail service.  
12.5 p.m.—Studio Music.  
1.14 p.m.—Summary of "Sydney Morning Herald" news service and cables.  
"Rugby" Wireless News.  
1.25 p.m.—A Reading.  
1.40 p.m.—Miss Genevieve Eppel, soprano.  
1.45 p.m.—Studio Music.  
1.50 p.m.—Miss Freda Fish, violinist.  
"Scherzo" (Tchaikowsky).  
1 p.m.—"Big Ben" Weather intelligence.  
1.3 p.m.—"Evening News" midday news service.  
Producers' Distributing Society's Report.  
1.20 p.m.—Studio Music.  
1.25 p.m.—Miss Freda Fish, violinist.  
"Evening Star" (Wagner).

1.25 p.m.—Stock Exchange, second call.  
1.30 p.m.—Singing contest for the school children.  
1.40 p.m.—Miss Genevieve Eppel, soprano.  
1.45 p.m.—Studio Music.  
1.54 p.m.—Last minute sporting information by the 2FC Racing Commission.  
Close down.

**AFTERNOON SESSION**

3 p.m.—"Big Ben" and announcements.  
3.10 p.m.—Reproductions on the "Talking" organ piano.  
3.21 p.m.—Miss Freda Fish, violinist.  
"La Gioconda" (Mazza).  
3.30 p.m.—Marching music for the school children.  
3.40 p.m.—From Farmer's Tea Rooms.  
Miss Aileen Barr, mezzo.  
"Lomax" (del Hicogo).  
3.45 p.m.—"Doreen" will give a short talk on "Social Activities".  
4 p.m.—From Farmer's Tea Rooms.  
Miss Edna Burton, soprano.  
4.5 p.m.—Mr. Will Boyver, baritone.  
"Bells of Brittany" (Philips).  
4.10 p.m.—Miss Freda Fish, violinist.  
"Thale Medication" (Massenet).  
4.20 p.m.—Sidoia Music.  
4.30 p.m.—From Farmer's Tea Rooms.  
Miss Edna Burton, soprano.  
"The Little Haven" (Kaha).  
4.35 p.m.—Mr. Will Boyver, baritone.  
"Hope the Rosenblum" (Ireland).  
4.40 p.m.—From Farmer's Tea Rooms.  
Miss Edna Burton, soprano.  
4.45 p.m.—Stock Exchange, third call.  
4.50 p.m.—Studio music.  
5 p.m.—"Big Ben." Close down.

**EARLY EVENING SESSION.**

5.45 p.m.—The Chimes of 2FC.  
5.48 p.m.—The "Hello Man" talks to the children.  
6.30 p.m.—A Serial Story.  
6.40 p.m.—Dinner Music.  
7 p.m.—"Big Ben." Late sporting news.  
7.10 p.m.—Dalyell's Market Reports (wool, wheat, stock).  
7.15 p.m.—Fruit and vegetable markets.  
7.20 p.m.—Weather and shipping intelligence.  
Stock Exchange.  
7.25 p.m.—Late "Evening News" news service.  
7.35 p.m.—Close down.

**NIGHT SESSION.**

7.55 p.m.—Broadcast from the Sydney Town Hall: Organ solos by Dr. T. High, new Organist of St. Andrew's Cathedral, at the Annual Meeting and Diocesan Festival.  
7.55 p.m.—A Short Talk on the forming of "Music Clubs" by Mr. Oliver King.  
8 p.m.—Mr. Gladstone Bell.  
"Cello solo, "Cradle Song" (Hanser).  
5.6 p.m.—Miss Enid D'Arcy, lyric soprano:  
"Deep River" (Burleigh).  
8.10 p.m.—Broadcast from Faling's Concert Hall: Items by the Sydney Madrigal Society's Choir, conducted by Mr. Arnold Mole.  
8.40 p.m.—From the Studio:  
Mr. S. Henry (from S.O.), in humorous stories.  
8.50 p.m.—Mr. Oliver King, basson:  
(a) "Stock Rider's Song" (James).  
(b) "Bush Silence" (James).  
8.57 p.m.—Mr. Gladstone Bell:  
"Cello solo, "La Pileuse" (Dunkirk).  
8.5 p.m.—Miss Maids Jones, subrette.  
9.5 p.m.—Broadcast from the Springers Town Hall:  
Further items at the Diocesan Festival.  
9.30 p.m.—From the Studio:  
Miss Enid D'Arcy, lyric soprano:  
(a) "Deep River" (Burleigh).  
(b) "Songs My Mother taught Me" (Dvorak).  
9.28 p.m.—Mr. Joe Cahill, entertainer:  
(a) "Fifty per Cent".  
(b) "Ohon buys a Wireless Set".  
9.25 p.m.—Miss Maids Jones, subrette.  
9.42 p.m.—Mr. Gladstone Bell:  
"Cello solo, "Vladimir" (Buehmann).  
9.32 p.m.—Miss Enid D'Arcy, lyric soprano.  
9.56 p.m.—The Editor of "Wireless Weekly" will give him a 15 minutes.  
10.15 p.m.—Miss Maids Jones, subrette.  
10.20 p.m.—Mr. Joe Cahill, entertainer:  
(a) "Oceanville" (Louis).  
(b) "Then and Now" (Whitman).

10.30 p.m.—Broadcast from the Wentworth Hotel, Sydney: The new Wentworth Arm-gable Dance Orchestra under the baton of Mr. Freddie's Lightin.  
 10.42 p.m.—Celebrity Records.  
 10.50 p.m.—Late news and announcements.  
 10.55 p.m.—Broadcast from the Wentworth Hotel, Sydney.  
 News ends until 11 o'clock.  
 11 p.m.—"Big Ben,"  
 National Anthem.  
 Close down.

## 2BL, SYDNEY

### Thursday

11 noon.—G.P.O. clock and chimes.  
 12.1 p.m.—Special ocean forecast and weather report.  
 12.5 p.m.—Musical programme from the Studio.  
 1.18 p.m.—Information—Mails and shipping and movements of important ships.  
 1.30 p.m.—Sydney Stock Exchange calls.  
 1.35 p.m.—News in call by wireless.  
 1.40 p.m.—Fruit market report.  
 1.51 p.m.—Vegetable market report.  
 1.55 p.m.—London metal market report.  
 1.57 p.m.—Dairy and farm produce market report.  
 1.58 p.m.—Racing resume.  
 1.59 p.m.—G.P.O. clock and chimes.  
 12.31 p.m.—Musical programme from the Studio.  
 12.40 p.m.—Shipping information ("Sun").  
 12.41 p.m.—Miller's Instrumental Quartet—Director, Carl Castling.  
 1.00 p.m.—G.P.O. clock and chimes.  
 1.31 p.m.—News from the "Sun."  
 1.40 p.m.—Musical programme from the Studio.  
 1.44 p.m.—Sydney Stock Exchange call.  
 1.48 p.m.—News from the "Sun."  
 2 p.m.—G.P.O. clock and chimes.  
 Radio information broadcast immediately after each race, by courtesy of the "Sun."  
 2.1 p.m.—Talk to children at a special entertainment for children in hospital.  
 2.29 p.m.—Social Notes—Resplies to correspondents, by Mrs. Jordan.  
 Talk on "Handicrafts," by Mrs. Jordan.  
 3 p.m.—G.P.O. clock and chimes.  
 3.1 p.m.—News from the "Sun."  
 3.11 p.m.—Musical programme from the Studio.  
 3.18 p.m.—G.P.O. clock and chimes.  
 3.21 p.m.—News from the "Sun."  
 3.25 p.m.—Musical programme from the Studio.  
 3.35 p.m.—Country Women's Session.  
 4 p.m.—G.P.O. clock and chimes.  
 4.1 p.m.—Musical programme from the Studio.  
 4.15 p.m.—Serial story.  
 4.20 p.m.—G.P.O. clock and chimes.  
 4.21 p.m.—Musical programme from the Studio.  
 4.31 p.m.—News from the "Sun."  
 4.50 p.m.—Racing resume.  
 4.59 p.m.—Producers' Distributing Society's fruit and vegetable market report.  
 4.51 p.m.—Resume of night's programme.  
 4.52 p.m.—Announcements.  
 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.  
 8.46 p.m.—Uncle George and the kiddies.  
 8.49 p.m.—Musical programme from the Studio.

**SPECIAL COUNTRY SESSION.**  
 9 p.m.—G.P.O. clock and chimes.  
 Australian Meranville, Land and Finance Co's report.  
 Weather report and forecast by author of Government Meteorologist.  
 Producers' Distributing Society's fruit and vegetable market report.  
 Stock Exchange reports.  
 Grain and fodders report ("Sun").

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## The More the Merrier

Why must people use jawbreakers when the dictionary is full of hard-hitting little pellets?

I attended a lecture recently and was bombarded with solid slabs of wisdom, such as "large scale production," "standardisation for output," etc.

When it was over I crawled out, mentally black and blue, and asked a man what it was all about? He put the whole of that lecture into ten words:

*"The more you make, the cheaper you can sell 'em!"*

That explains something which has puzzled me about my old pal the Burgess Battery: Why cut its price down to 26/- when every battery in stock was recently cleared right out at the old rate, and cable orders a mile long had to be sent?

As man to man, would you cut your price when your business was growing like a snowball at the higher price? Not on your life! Neither would I! Which shows, my friend, that you and I have a lot to learn.

Now here's the right angle on the Burgess business. The Australian demand for these batteries is now so huge that the Australian distributors, New System Telephones Pty., Ltd., 250 Castlereagh Street, can secure the lower scale rate due to quantity production, and they are passing this along to set owners.

Not that the New System people are qualifying for a harp and a halo! They realise that a Burgess Battery at 26/- is like a half-price ice-cream to a schoolboy,—it will be gobbled up in one lick (two licks if the schoolboy is small).

It pays to double sales! And don't forget that once you use a Burgess Battery you are a Burgess man for life!

- Dairy produce report ("Sun").  
 7.15 p.m.—Country news from the "Sun."  
 7.30 p.m.—Talk by Mr. Rupert Mackham, B.E., on "Why 57 nations have adopted Metric Units."  
 8 p.m.—G.P.O. clock and chimes.  
 Broadcasters' Tropic Chorus.  
 8.8 p.m.—Mr. Lance Jeffree, tenor.  
 1.10 p.m.—Broadcasters' Vocal Trio.  
 8.15 p.m.—Miss Helena Stewart, soprano.  
 8.24 p.m.—Mr. Rainund Petrich, violinist.  
 8.44 p.m.—Mr. Roy Scrivener, baritone.  
 8.61 p.m.—Mr. Sydney Hollister, humorist.  
 8.53 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.  
 9 p.m.—G.P.O. clock and chimes.  
 Returns of following day's programme.  
 9.8 p.m.—Duet, Miss Helena Stewart and Mr. Lance Jeffree.  
 9.9 p.m.—Miss Edith Kilminster, pianist.  
 9.15 p.m.—Mr. Frank Ryan, comedian.  
 9.22 p.m.—Mr. Lance Jeffree.  
 9.29 p.m.—Broadcasters' Vocal Trio.  
 9.35 p.m.—Miss Helena Stewart.  
 9.43 p.m.—Mr. Sydney Hollister.  
 9.50 p.m.—Mr. Roy Scrivener.  
 9.57 p.m.—Miss Edith Kilminster.  
 10.4 p.m.—Mr. Frank Ryan.  
 10.11 p.m.—Cec Morrison and his Glouchesters broadcast from the ballroom of the Bondi Casino. During intervals between dances, news reports, by courtesy of the "Sun," will be broadcast.  
 11 p.m.—G.P.O. clock and chimes.  
 National Anthem.

## 3LO, MELBOURNE.

### Thursday

- MID-DAY SESSION.  
 COMMUNITY SINGING.  
 12 noon.—Tim Spedal, British Official Wireless News from Rugby, "Rector" and the Australian Press Association Cables, "Arcus" and "Herald" News Services.  
 1.15 p.m.—Under the auspices of the Theatre Goers and Community Singers' Association, COMMUNITY SINGING—transmitted from the ASSEMBLY HALL, Collins Street.  
 1.45 p.m.—Stock Exchange Information.  
 Weather report.  
 2 p.m.—Close Down.  
 AFTERNOON SESSION.  
 Speaker MISS FRANCES FRASER, Artist.  
 FREDRICK GEORGE, Baritone, STATION TRIO.  
 MAXWELL CAREW, Comedian.  
 O'MARA AND BURKE.  
 TANSIA TIERNAN, Cello.  
 THE STUDIO ORCHESTRA.  
 Accompanist ..... AGNES FORTUNE.  
 Announcer ..... MAURICE DUDLEY.  
 "POT POURRI."  
 3 p.m.—STUDIO ORCHESTRA, Selection, "Miss Topek of Holland" (Rubens).  
 3.10 p.m.—FREDRICK GEORGE, Baritone, "Hurlerquin" (Bauderson).  
 "Hat's off to the Stoker" (Arundell).  
 3.17 p.m.—STATION TRIO.  
 "Mendelssohn Trio No. 3."  
 3.25 p.m.—MAXWELL CAREW, Comedian, "Humorous Sketches."  
 3.32 p.m.—STUDIO ORCHESTRA, "Saraband Suite" (Koenig).  
 3.40 p.m.—O'MARA AND BURKE, Chas O'Mara, "Foggy Dew" (Milligan-Fox), "Ireland I Love Anushta Marcees" (H. Sweeney).  
 Anna Burke, "When Irish Eyes are smiling" (Palling).  
 3.50 p.m.—TANSIA TIERNAN, Cello; "Saraband Suite" (Handel).  
 "Aria" (Lohell).  
 3.57 p.m.—FREDRICK GEORGE, Baritone, "The Blue Dragon" (Russell).  
 "Heben Ranz" (Castes).  
 4 p.m.—STUDIO ORCHESTRA, "Norwegian Suite" (Schytte).  
 4.15 p.m.—MISS FRANCES FRASER, "Some Women in the Novel."  
 4.30 p.m.—"RECALLED" news service, Stock Exchange Information, Acceptances for Flemington Races for Saturday, 4th May.  
 4.45 p.m.—EVENSONG, transmitted from St. Paul's Cathedral.  
 5.30 p.m.—Close down.  
 EVENING SESSION.  
 CHILDREN'S HOUR.  
 Storyteller ..... "Mary Gumar"  
 JOE BRENNAN and IDA NEWTON.  
 HAROLD COLLIER, Mouthorgan.  
 Accompanist ..... ELSIE BRADSHAW.  
 5.40 p.m.—Answers to Letters and Birthday greetings.  
 5.55 p.m.—JOE BRENNAN & IDA NEWTON, Children, your old friend "The Dame" has a funny story for you.  
 6 p.m.—"MARY GUMLEAF" Poems, "The Broken Doll."  
 "Little Red Riding Hood" in verse, Story for the little's ones.  
 "Naughty Kenneth."  
 6.15 p.m.—HAROLD COLLIER, Mouthorgan selection.  
 6.22 p.m.—"MARY GUMLEAF," Description of "The" dishevelled at the Fire Station, Brigade in operation.  
 6.35 p.m.—"Arcus" and "Herald" news service, Weather synopsis, Shipping movements.  
 6.47 p.m.—Stock Exchange Information.  
 6.52 p.m.—Fish Market reports by J. R. Borrett Ltd. Rabbit Prices.  
 6.55 p.m.—River Reports.  
 6.58 p.m.—Market report by the Victorian Producers Co-operative Co. Ltd. Newmarket sheep sales. Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.  
 7 p.m.—Market reports of fruit, by the Victorian Fruitgrowers' Association, compiled by the "Trade World" exclusively to 3LO.  
 NIGHT SESSION.  
 Speakers MISS E. N. BAIRD, MR. W. H. RENNICK, MR. ROD McCREGOR, ... .. MR. LOU VERNON, Artists.  
 LEW JAMES.  
 JOE BRENNAN and IDA NEWTON, JAMES RILEY Tenor, JESSIE SMITH, Contralto.  
 "The White Horse."  
 LEE WHITE and CLAY SMITH, JOE ARONSON & HIS SYMCO, SYMPHONISTS.  
 Accompanist ..... AGNES FORTUNE.  
 Announcer ..... ALFRED ANDREW.  
 7.15 p.m.—MISS E. N. BAIRD, will speak on "Lip Reading."  
 7.30 p.m.—Under the auspices of the Henry George Club, MR. W. H. RENNICK, Acting President will speak on "Child Endowment Scheme."  
 7.45 p.m.—MR. LOU VERNON now appearing as "Emile La Fiancée" in "Rose Marie" at His Majesty's Theatre, will speak in your Hall Dressing-room by permission of J. C. WILLIAMSON, LTD.  
 8 p.m.—MR. ROD McCREGOR, will speak on prospects on Saturday's Football.  
 8.15 p.m.—JOE ARONSON & HIS SYMCO, PATING SYMPHONISTS; "Jewelry" (Arundell).  
 "Zuliska My Desert Maid," (Gunning).  
 "In a Little Garden" (Lula).  
 8.25 p.m.—LEW JAMES, "Jewelry."  
 8.30 p.m.—ROYAL AUTOMOBILE CLUB OF VICTORIA, SAFETY MESSAGE; CYCLISTS! Don't be potential suicides. In your own interests, do carry efficient front and rear lights.  
 8.33 p.m.—JOE ARONSON & HIS SYMCO-PATING SYMPHONISTS; "There Ain't No Maybe in My Baby's Eyes" (Kabny), "Thinking of You" (Ash), "Fidelity of the Past" (Mayson).  
 8.43 p.m.—JOE BRENNAN, assisted by IDA NEWTON; "Rhyme."  
 8.47 p.m.—JOE ARONSON & HIS SYMCO-PATING SYMPHONISTS; "We Don't Want to Get Married" (Stiers), "Bye, Bye, Blackbird" (Dixon), "Laughing at the Ivories" (Wondahl).  
 8.57 p.m.—Announcements.  
 9 p.m.—JAMES RILEY, Tenor; "Juno."  
 9.4 p.m.—JOE ARONSON & HIS SYMCO-PATING SYMPHONISTS; "I Can't Forget" (Corrick).

- "While the Yanks Go Drilling On" (Kahn)  
"Parade Along" (March).
- 1.11 p.m.—LEW WHITE AND CLAY SMITH  
will entertain you with selections from their  
repertoire.
- 1.14 p.m.—JOE ARONSON AND HIS SYN-  
COPATING SYMPHONISTS  
"Sweet did you get those eyes" (Dimitroff)  
"Sweet Katie, but love the Pina coloa"  
(Tracey)
- "Winter 24" (Fryer).
- 1.21 p.m.—JESSIE SMITH, contralto:  
"Beguine"
- 1.28 p.m.—Meteorological information. Sport-  
ing notes by "Olympic"
- 1.34 p.m.—JOE ARONSON AND HIS SYN-  
COPATING SYMPHONISTS:  
"Go home" (Buck).  
"Christ, I love you" (Goodman).  
"The Animal Fair" (La Focchini).
- 1.38 p.m.—DODIE WOLFE:  
"Humana Impersonation"
- 1.41 p.m.—JOE ARONSON AND HIS SYNCO-  
PATING SYMPHONISTS:  
"The Sassy Melody of Medley" (Sellers).  
"Tonight's my night with baby" (Meyer).  
"Say that you love me" (Nebel).
- 1.47 p.m.—JOE BRENNAN, assisted by IDA  
NEWTON.  
"Sons of Pater"
- 1.51 p.m.—"Argo" news service. British  
official selection news.
- 1.52 p.m.—JOE ARONSON AND HIS SYNCO-  
PATING SYMPHONISTS:  
"Do the black bottom with me" (Meyer).  
"Saults is back again with his boys."  
(Lynn, Jones)
- 1.53 p.m.—JAMES RILEY, tenor:  
"Abend" (Metsch).
- 1.53 p.m.—JOE ARONSON & HIS SYNCO-  
PATING SYMPHONISTS:  
"Ma's somebody's sweetheart" (Rose).  
"It made you happy" (Dimitroff).  
"While we danced till dawn" (Folshain).
- 1.54 p.m.—JESSIE SMITH, contralto:  
"Sylvia" (Sovak).
- 1.59 p.m.—JOE ARONSON AND HIS SYNCO-  
PATING SYMPHONISTS:  
"Let's grow old together" (Nelson).  
"Talking to the moon" (Buckette).  
"Meadow lark" (Fiorini).
- 11 p.m.—OUI UREAY THOUGHT:  
"Friends are so companions on a journey  
who ought to aid each other to preserve  
in the road to a happier life."—Eytham-  
mers."
- 11.3 p.m.—JOE ARONSON AND HIS SYNCO-  
PATING SYMPHONISTS:  
"At once with the world" (Budin).  
"Frenchie" (Greer).
- "Kitten on the Keys" glass solo (Confrey).
- 11.10 p.m.—LEW JAMES:  
"Armstrong's."
- 11.14 p.m.—JOE ARONSON AND HIS SYNCO-  
PATING SYMPHONISTS:  
"In a little Spanish Town" (Young).  
"Somebody's Lenny" (Davis).  
"Hot could Red Riding Hood" (Randolph).
- 11.24 p.m.—JOE BRENNAN, assisted by IDA  
NEWTON.  
George Washington.
- 11.25 p.m.—JOE ARONSON AND HIS SYNCO-  
PATING SYMPHONISTS:  
"My pal, Jerry" (Rose).  
"The Primer's Sweetheart" (Walsh).  
"My Dream of the Big Parade" (Dubois).
- 11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Thursday.

MORNING SESSION.

- 11 a.m.—Selections on the Branwick Pan-  
trape.
- 11.30 a.m.—British Official Wireless Press  
received from Rugby Super Wireless Station,  
England. Express train information. "Argo"  
News Bulletin exclusive to 3AR.
- 12 noon—The Signal Clinics from G.P.O.  
First Weather forecast. Events of the day.  
Radio Barometer and Outdoor Thermometer  
readings.
- 12.35 p.m.—Musical Selections from the Studio.
- 12.50 p.m.—Bank Exchange News. Market  
reports.

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12.49 p.m.—Musical Selections from the Studio  
12.55 p.m.—Shipping Notes, Mail Notices.  
1 p.m.—Close down.

## AFTERNOON SESSION.

- 2.30 p.m.—Studio Orchestra:  
"Nocturne" (Kryszanowski).  
"Serenade" (Kochowicz).  
2.45 p.m.—Miss Maizie Owen, soprano:  
"Orpheus with his lute" (Sudilvan).  
"The Songs my Mother Sang"  
"Air de Ballet" (Hille).  
2.55 p.m.—Studio Orchestra:  
8.3 p.m.—Mr. B. Pettifer, violin:  
"Danse Nègre" (Col. Taylor).  
5.15 p.m.—Studio Orchestra:  
"Danza d'Amore" (Sore).  
2.55 p.m.—Miss Owen, soprano:  
"The Rosary" (Etheibert-Nevin).  
5.25 p.m.—Studio Orchestra:  
"Andante from 7th Violin Concerto  
(de Berlioz).  
3.40 p.m.—Miss Owen, soprano, and Mr. James  
Scott, bass, Vocal Duet:  
"Venetian Song" (Tosti).  
3.44 p.m.—Studio Orchestra:  
"Serenade" (Baron).  
4 p.m.—Time Signal, Chimes from G.P.O.  
Second Weather forecast.  
Mr. James Scott, bass:  
"The Pirate's Song" (Chadwick).  
4.9 p.m.—Studio Orchestra:  
"Catherine—Gudie" (Hirsch).  
4.20 p.m.—Mr. Ronald Brazier, cello:  
"Ballade" (Wiesenborn).  
4.28 p.m.—Mr. James Scott, bass:  
"Song of the Voiea Boatman" (Koonman).  
"Will I Awake" (Finden).  
4.31 p.m.—Studio Orchestra: "Selections."  
4.55 p.m.—Evening Amusement Guide.  
5 p.m.—Time Signal, Chimes from G.P.O.  
Close down.

## EARLY EVENING SESSION.

6.45 p.m.—Children's Corner, "Uncle Mac."

## EVENING SESSION.

- 7.45 p.m.—British Official Wireless Press.  
Studio Barometer readings, Special Pig  
and Call reports, supplied by courtesy of  
Messrs. McPhail, Anderson & Co. Pty. Ltd.  
Fat Sheep and Cattle report, supplied by  
Messrs. John McNamara and Co. Pty. Ltd.  
9 p.m.—Time Signal, Chimes from G.P.O.  
THE AKOLIAN TRIO. Three songs ar-  
ranged for Violin, Piano and Cello, by  
Miss Beatrice Phillips:  
(a) "Lullaby" (James).  
(b) "Dancing Song" (James).  
(c) "Where the Brooklet Ripples" (James)  
"Pale Moon" (Logan).  
8.15 p.m.—Mr. Howard King, baritone:  
"Bad a Horse" (Korlay).  
"Showers, See Thy Horse's Foaming Mane"  
(Korbay).  
8.22 p.m.—Radio Play:  
"The Snowstorm" (Bowkett).  
Characters—  
Hens: Fernon; Mr. Jas. C. Clarke,  
Edith Kingsley; Miss Lena Tooney.  
Scene.—A Drawing-room in Kingsley's  
home. Night. A Snowstorm outside. A  
picture of Mrs. Kingsley's Mother hangs on  
the wall. Mrs. Kingsley is in front of the  
fire reading a paper.  
8.37 p.m.—Miss Leonora Scott, soprano:  
"Kathleen Mavoneene" (Grouh).  
"The Robin Song" (White).  
8.45 p.m.—Miss Beatrice Phillips, Violin:  
"La Serenata" (Braga).  
"Masurka" (Winniewski).  
8.52 p.m.—Mr. Leslie Jephcott, Tenor:  
"Lancers" (Hahn).  
"I'll Sing Thee Songs of Araby" (Clay).  
9 p.m.—The Aeolian Trio:  
"Andante" (Tchaikowsky).  
"Andra's Dance" (Griez).  
"Elegia" (Arensky).  
9.15 p.m.—Mr. Howard King, Baritone:  
"Quiet" (Sanderson).  
"Heart's Devotion" (Kremer).  
9.23 p.m.—English Talk by Mr. Rupert Wood,  
M.A.S., Spelling Dictator, Secretary to the  
Food Education Society of Victoria: "How  
Foods produce body Toxins and Poisons."  
9.43 p.m.—Miss Leonora Scott, Soprano:  
"The Bringers" (La Forge).  
"A Little Birdie" (Forschal).  
9.45 p.m.—Mr. John Farrell, Cello:  
"Melody in E" (Rubenstein).  
"Tarantella" (Squire).

- 9.55 p.m.—Mr. Leslie Jephcott, Tenor:  
"Get Little Henry" (Gostes).  
"Salaam" (Lang).  
At the Piano: Miss Violet Wood.  
10 p.m.—Time Signal, Chimes from G.P.O.  
Studio Barometer readings. "Am" news  
bulletin, exclusive to L.A.S.  
Leggett's Ballroom Orchestra.  
11 p.m.—Time Signal, Chimes from G.P.O.  
Close down.

## 4QC, BRISBANE.

Thursday.

- MIDDAY SESSION.  
1.0 p.m.—Market Reports, Weather Informa-  
tion: "The Daily Mail" and "The Daily  
Standard" News.  
1.20 p.m.—From Hotel Carlton: Lunch Music  
Played by Hotel Carlton Symphony Orches-  
tra.  
1.58 p.m.—From the Observatory: Standard  
Time Signal.  
2.0 p.m.—Close Down.

## AFTERNOON SESSION

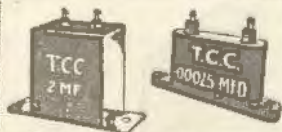
- 3.50 p.m.—Musical Programme from the  
Studio: A programme of music by the Studio  
Instrumental Quartette (conductor, Mr. F.  
C. Smith), including the following—Sole,  
"Merchant of Venice" (Rossa); orchestra,  
"American Melody" (de Souza); violin  
solo, "Cavatina" (Haff), Miss G. Page (se-  
lected) accompanied by the Instrumental Quartette;  
orchestra: (a) waltz, "Love Will Find" (Car-  
bonara), (b) solo, "Zara" (Ryder);  
march, "Cradle of Liberty" (Joy).  
4.15 p.m.—"The Telegraph" News.  
4.30 p.m.—Close Down.

## EARLY EVENING SESSION.

- 6.0 p.m.—"Daily Standard" News; Announ-  
cements.  
6.30 p.m.—Bedtime Stories by "The Sand-  
man."  
7.0 p.m.—Market Reports; Stock Reports.  
7.30 p.m.—Weather News; Announcements.  
7.45 p.m.—Standard Time Signal.  
7.45 p.m.—Lecture, "Shakespeare and Farm-  
ing" by Mr. J. P. Cornwell (Editor,  
"Queensland Agricultural Journal").

## NIGHT SESSION.

- THE LYRICIERS.  
The whole of to-night's programme will  
be provided by "The Lyric Entertainers,"  
and has been arranged by Mr. J. P. Corn-  
well.  
8.0 p.m.—Overture, "Music." Lyric Orchestra;  
part-song, "Shine On, Oh Moon" (Watson).  
Lyric Glee Singers; duet, "Rose of My  
Hedge" (Lohr), Messrs. T. McVitie and E.  
G. Bellgrove; soprano solo, "Drowsy Flowers  
Tree" (Drummond), Mrs. H. Gilson; violin  
solo (with orchestral accompaniment),  
"Canonetta" (D'Ambrasio), Mr. R. J.  
Robinson and Lyric Orchestra; glee, "Who  
Will O'er the Down" (de Forestal), Lyric  
Glee Singers; extemporaneous number, "Foot-  
ling Questions," Miss May Aspland; nocturne,  
"Joboscram" (Lohr), Lyric Orchestra;  
bass solo, "The Dullest Art" (Trotter),  
Mr. J. P. Cornwell; part-song, "Sweetest  
Love, I Do Not Go" (Vincest), Lyric Glee  
Singers; selection, "La Hingona" (Meyer-  
beer), Lyric Orchestra; soprano solo, "Hoesa  
O' Day," Miss Daisy McDowall; male qua-  
rtette, "De Old Low Cabin in De Lave"  
(Robinson), Lyric Male Quartette glee,  
"Bells of St. Michael's Tower" (Stewart),  
Lyric Glee Singers.  
9.0 p.m.—Metropolitan Weather Forecast;  
orchestral, two popular numbers, selected,  
Lyric Orchestra; selected, (a) glee, "Gle to  
See" (Trotter), Mr. E. G. Bellgrove; extem-  
poraneous number, selected, Miss May Aspland;  
duet, romance, "Heart to Heart," Lyric  
Orchestra; extemporaneous, "The  
Phynix Bass" (Bliss), Lyric Male Quartet;  
letts; glee, "Now is My Gloria Fresh as  
May" (Lohr), Lyric Glee Singers; orchestral;  
(a) solo, selected, (b) characteristic,  
"Song of India," Lyric Orchestra; soprano  
solo, "Fairings" (Eustlope Martin), Mrs. H.  
Gilson; male vocal trio, "Ye Shepherd"  
(Lohr), Lyric Glee Singers; duet, "Sweet  
McVitie and Bishop", Messrs. Robinson,  
E. G. Bellgrove, and J. P. Cornwell; glee,  
"Gentle Lady" (Corbett), Lyric Glee Singers;  
march, "Queen of the Fleet," Lyric  
Orchestra.  
10.9 p.m.—From the Studio: "The Daily  
Mail" News; Weather News; Close Down.



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## SCL, ADELAIDE.

Thursday.

- MORNING SESSION.**  
 12 noon.—G.P.O. Chimes.  
 12.15 p.m.—Recital on the "New Reproducing Gramophone" and the "Autophone Reproducing Gramophone" news service.  
 12.45 p.m.—Market reports.  
 1 p.m.—G.P.O. Chimes.  
 1.15 p.m.—Musical programme continued.  
 2 p.m.—G.P.O. Chimes and close down.

- AFTERNOON SESSION.**  
 2.15 p.m.—G.P.O. Chimes.  
 2.30 p.m.—Solo from the Maple Leaf Cafe—Orchestra Selections.  
 2.45 p.m.—Solo from the Radio—Recital on the "New Reproducing Gramophone" and the "Autophone Reproducing Gramophone."  
 3 p.m.—G.P.O. Chimes.  
 3.15 p.m.—Solo from the Arcadia Cafe—Orchestra Selections.  
 3.45 p.m.—Session announcements.  
 4 p.m.—G.P.O. Chimes and close down.

- EVENING SESSION.**  
 8 p.m.—G.P.O. Chimes.  
 8.15 p.m.—Dinner Music by the Covent Garden Metropolitan Orchestra.  
 8.45 p.m.—Radio news service.  
 9 p.m.—Market reports.  
 9.15 p.m.—Talk by Mr. A. M. Whitcomb.  
 9.45 p.m.—G.P.O. Chimes.  
 9.55 p.m.—SCL Orchestra.  
 10.15 p.m.—Tenor Solo, Mr. Chas. Baggott.  
 10.30 p.m.—Cello Solo, Mr. G. Goldworthy.  
 10.45 p.m.—Harmonium Solo, Mr. Gerald Myles.  
 11 p.m.—SCL Orchestra.  
 11.15 p.m.—Humorous Recitation, Miss P. Abraham.  
 11.30 p.m.—Song, Miss Margaret Walsh.  
 11.45 p.m.—SCL Orchestra.  
 12 p.m.—Song, Miss Margaret Walsh.  
 1 p.m.—G.P.O. Chimes.  
 1.15 p.m.—"Advertiser" news service.  
 1.30 p.m.—SCL Orchestra.  
 1.45 p.m.—Song, Mr. Charles Baggott.  
 1.55 p.m.—SCL Orchestra.  
 2 p.m.—Song, Miss Margaret Walsh.  
 2.15 p.m.—Song, Mr. Gerald Myles.  
 2.30 p.m.—Recitation, Miss P. Abraham.  
 2.45 p.m.—SCL Orchestra.  
 3 p.m.—G.P.O. Chimes and close down.

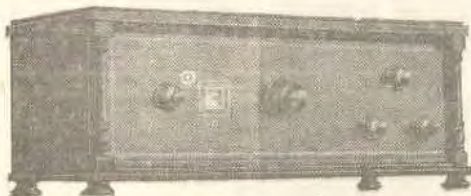
## 6WF, PERTH.

Thursday.

- 12.30 a.m.—Time in.  
 12.35 a.m.—First local news bulletin.  
 Market reports.  
 12.45 a.m.—Time out.  
 1 a.m.—Time signal from Perth Observatory.  
 1.15 a.m.—Weather rates supplied by the Meteorological Bureau of Western Australia.  
 1.30 a.m.—Studio Galkette.  
 2 a.m.—Close down.  
 2.30 a.m.—Time in.  
 3.15 a.m.—Musical programme, including Galkette selection by Miss Evelyn Willis, A.R.C.M.  
 4 a.m.—Radio Instrumental Trio.  
 4.30 a.m.—Close down.  
 5.15 a.m.—Time in.  
 5.45 a.m.—Studio for Tiny Tots by Annie Kain.  
 7.15 a.m.—Carle Duffy will talk to the kiddies.  
 7.30 a.m.—Stock and Share Intelligence.  
 7.45 a.m.—Market reports.  
 7.55 a.m.—News by courtesy of "The West Australian" Newspaper Co.  
 8.15 a.m.—Talk: "The Gentle Art of Criticism," by Mr. R. F. Thompson, M.A.  
 8.30 a.m.—Time signal from Perth Observatory.

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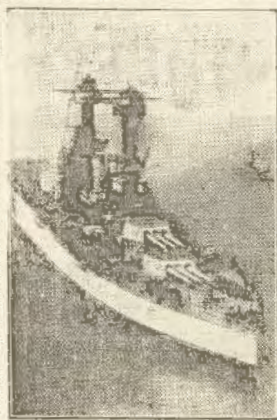
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- 8.1 p.m.—A Talk on Bridge by Mr. Graham Kent.  
 8.15 p.m.—"Coronet Bidding."  
 8.15 p.m.—Mr. Alfred O'Shea, Australia's foremost tenor.  
 8.20 p.m.—Win and Winkle, English entertainers:  
 "The Viper's Fancy Ball."  
 8.26 p.m.—Miss Peggy Dunbar, contralto:  
 "Songs My Mother Sang" (Grimsbaw).  
 8.30 p.m.—Win and Winkle, English entertainers:  
 "A Cup of Coffee" (Win).  
 8.35 p.m.—Mr. Alfred O'Shea, tenor.  
 8.41 p.m.—Mr. Scott Alexander will deliver the sixth of "Martin Meeks," topical Comedy Radio discussions, written especially for 2FC, Sydney, by Cedricung Ball, entitled:  
 "The Absurdity of Being Rich."  
 8.54 p.m.—Win and Winkle, English entertainers:  
 (a) "Wouldn't That be Lovely."  
 (b) "Potion" (Win).  
 9.0 p.m.—BROADCAST FROM THE THEATRE ROYAL, SYDNEY: The second act of the new Comic Opera, "Fraasonta," featuring Marie Burke and Herbert Browne.  
 MUSICAL NUMBERS: ACT TWO: Scene, "THE NIGHT CABARET."  
 "El Tango," Sylvia Miller, Alexis Dolloff.  
 "The Return of the Legion," Marie Burke, Chorus Gentlemen and Ballet.  
 "Comes O' me," R. Barrett-Leonard, Marie Eaton and Girls.  
 "Dance, Pas de Deux," Thuzza Borera and Robert Lascelles.  
 "The Love Spell," Marie Burke, Herbert Browne.  
 "I'm So Popular," R. Barrett-Leonard, Thelma Burness and Girls.  
 "Forever, My Love," Marie Burke.  
 "Hush, Dear, Hush, Dear," Marie Burke, Herbert Browne.  
 Finale, Marie Burke, Herbert Browne.  
 10.15 p.m.—From the Studios:  
 Mr. Alfred O'Shea, tenor.  
 10.22 p.m.—Scott Alexander and company in an original Radio Comedy: written by Cedricung Ball: entitled:  
 "MR. HONEYDROP DROPS THE HONEY."  
 Scene: Having a Dance at the McFington's.  
 Characters:  
 Mr. Sweetman Honeydrop, Mr. Scott Alexander.  
 Mrs. Honeydrop, his Wife, Miss Ruth Wilson.  
 10.42 p.m.—Broadcast from the Westworth Hotel, Sydney: The New Westworth Symphonic Dance Orchestra under the Baton of Mr. Frederick Lightman.  
 10.52 p.m.—Late news and announcements.  
 10.59 p.m.—Westworth Cafe Dance Orchestra.  
 11 p.m.—"Big Ben."  
 National Anthem.  
 Close down.

## 2GB, SYDNEY

Friday

MORNING SESSION.

- 9 a.m.—Music.  
 9.5 a.m.—Cherio Talk.  
 9.15 a.m.—Music.  
 9.25 a.m.—Psychological Class.  
 9.40 a.m.—Music.  
 9.45 a.m.—Health and Diet.  
 10 a.m.—Close down.  
 3.30 p.m.—Music.  
 3.37 p.m.—  
 3.52 p.m.—Music.  
 4.7 p.m.—Talk.  
 4.50 p.m.—Close down.

EVENING SESSION.

- 6.30 p.m.—Children's Session.  
 7 p.m.—Music.  
 7.5 p.m.—Talk.  
 7.15 p.m.—Music.  
 7.30 p.m.—Talk.  
 7.50 p.m.—Music.  
 7.55 p.m.—Talk.  
 7.55 p.m.—INSTRUMENTAL TRIO:  
 DAN SCULLY, MURIELLE LANG, ADA BROOK.

- 8.5 p.m.—Address by Professor Ernest Wood.  
 8.20 p.m.—Songs by MADM CHAUBERT.  
 8.35 p.m.—A Half Hour with the 3GB Singing Quartette.  
 LLOYD DAVIES, MONICA BORDER, CHARLES BOULT, MURIELLE LANG.  
 9 p.m.—Topical Talk.  
 9.15 p.m.—Vocal Solos, DAN SCULLY:  
 1. "Spanish Serenade" (Umbandine).  
 2. "Indian Lament" (Dvovak).  
 9.23 p.m.—Songs, MADAME CHAUBERT.  
 9.33 p.m.—Instrumental Trio, MONICA BORDER, MURIELLE LANG, ADA BROOK.  
 9.50 p.m.—Cherio Talk.  
 10 p.m.—Close down.

## 3LO, MELBOURNE

Friday.

MIDDAY SESSION.

- LEW JAMES.  
 DODIE WOLFE.  
 FREDERICK GEORGE, Baritone.  
 TASHA TIERNAN, Comedian.  
 MAXWELL CAREW, Comedian.  
 BERYL HOLT, Contralto.  
 DOROTHY ROXBURGH, Viola.  
 THE STUDIO ORCHESTRA.  
 Accompanist ..... AGNES FORTUNE  
 Announcer ..... MAURICE DUDLEY  
 12 noon.—Time Signal: British Official Wireless News from Rugby: Reuter's and the Australasian Press Association Cables;  
 "Argus" and "Herald" News Service.  
 12.05 p.m.—LEW JAMES, Comedian, "Jewmarians."  
 12.17 p.m.—STUDIO ORCHESTRA.  
 "Jolly Robbers" (Simpel).  
 12.37 p.m.—Stock Exchange Information.  
 12.40 p.m.—DODIE WOLFE, Humorous Impressions.  
 12.44 p.m.—STUDIO ORCHESTRA.  
 "A Celtic Lullaby" (Hart).  
 12.57 p.m.—FREDERICK GEORGE, Baritone, "Close Proxy" (Charles).  
 "When the Sun's on Parade" (1st-staff).  
 1.4 p.m.—TASHA TIERNAN, "Hello, "Evening Star" (Wagner).  
 1.12 p.m.—Meteorological Information.  
 1.20 p.m.—MAXWELL CAREW, Comedian, Humorous Sketches.  
 1.27 p.m.—STUDIO ORCHESTRA.  
 "Helio" (Mamoy).  
 1.37 p.m.—STUDIO ORCHESTRA.  
 "Headin'" (Edward Elgar).  
 "Four Leaf Clover" (Lulu M. Bromell).  
 1.44 p.m.—DOROTHY ROXBURGH, Viola, Serenade.  
 1.50 p.m.—MAXWELL CAREW, Comedian, "Orpheus With His Lute" (Arthur Selfmann).  
 "I Heard You Go By" (Danile Wood).  
 1.54 p.m.—STUDIO ORCHESTRA.  
 "Maytime" (Rombert).  
 2.0 p.m.—Close Down.

AFTERNOON SESSION.

- Speakers:  
 "AU FAIT."  
 MRS. MAHOOD.  
 Artists:  
 JESSIE SEMITH, Contralto.  
 WALTER SMITH, Cornet.  
 JOE BRENNAN and IDA NEWTON.  
 LEW JAMES.  
 DODIE WOLFE.  
 And  
 LEE WHITE and CLAY SMITH.  
 THE STUDIO ORCHESTRA.  
 Accompanist ..... AGNES FORTUNE  
 Announcer ..... MAURICE DUDLEY  
 ARTISTS: ALL  
 3.0 p.m.—STUDIO ORCHESTRA.  
 "The Isle of Champagne" (Moses).  
 3.10 p.m.—"AU FAIT."  
 "Fashion Talk."  
 3.25 p.m.—JESSIE SEMITH, Contralto.  
 "When the Night With Stillly Silence."  
 "The EH Moon."  
 3.32 p.m.—STUDIO ORCHESTRA.  
 "Cannonetta" (Herbert).  
 3.37 p.m.—LEE WHITE and CLAY SMITH, Will entertain you with selections from their repertoire.  
 3.47 p.m.—WALTER SMITH, Cornet.  
 "Two Little Bullfinches."  
 3.52 p.m.—JOE BRENNAN, assisted by IDA NEWTON.  
 Ida Newton, "Old Days and New."  
 Joe Brennan, "Stewed Prunes and Friends."

6.5 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.  
 8 p.m.—Orchestral Concert.  
 8.15 p.m.—W.P.A. Station Orchestra. Conductor, Mr. Ronald E. Moyle. A.T.C.F.  
 9 p.m.—Travel talk by John Cowie, Esq., representing Cook's Tourist Agency, Fremantle.  
 10 p.m.—Sound news bulletin by courtesy of "The Daily News" Newspaper Co.  
 Ships within range announcement.  
 Weather report and forecast.  
 10.10 p.m.—Close down.

## Friday, June 3 2FC, SYDNEY

### MIDDAY SESSION.

12 noon—"Big Ben" and programme announcements.  
 12.2 p.m.—Stock Exchange, first call.  
 12.4 p.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.  
 12.6 p.m.—Studio Music.  
 12.15 p.m.—Summary of "Sydney Morning Herald" news service and cables.  
 12.25 p.m.—A talk on Home Cooking and Recipes by Miss Ruth Ford.  
 12.40 p.m.—Miss Mariel Humphries, contralto: "Tonight and all the Years" (Phillips).  
 12.55 p.m.—Studio Music.  
 1 p.m.—"Big Ben" Weather intelligence.  
 1.2 p.m.—"Evening News" midday news service.  
 Producers' Distributing Society's Report.  
 1.10 p.m.—Studio Music.  
 1.15 p.m.—Stock Exchange, second call.  
 1.30 p.m.—Marching music for the school children.  
 1.45 p.m.—Miss Mariel Humphries, contralto: "The Little Blue Bay" (de Rega).  
 2 p.m.—Studio music.  
 2.15 p.m.—"Big Ben" Close down.

### AFTERNOON SESSION.

2 p.m.—"Big Ben" and announcements.  
 2.4 p.m.—Studio Items.  
 3.10 p.m.—Marching music for the school children.  
 3.40 p.m.—From Farmer's Tea Rooms: Miss Ethel Miller, contralto: "Take Heart Again" (Wesley).  
 3.45 p.m.—Mr. Chaslin will talk on "Kindsergarten Activities."  
 3.55 p.m.—Miss Nihil Atholwood, mezzo.  
 4 p.m.—"Big Ben."  
 From Farmer's Tea Rooms:  
 Miss May Craven, mezzo: "The Fable Producer" (South).  
 4.5 p.m.—Studio Music.  
 4.15 p.m.—Miss Nihil Atholwood, mezzo.  
 4.30 p.m.—From Farmer's Tea Rooms: Miss Ethel Miller, contralto: "My Message" (D'Harclolet).  
 4.35 p.m.—Studio Music.  
 4.40 p.m.—From Farmer's Tea Rooms: Miss May Craven, mezzo: "Sheila" (Harwood).  
 4.45 p.m.—Stock Exchange, third call.  
 4.51 p.m.—Pianoforte reproductions.  
 5 p.m.—"Big Ben" Close down.

### DAILY EVENING SESSION.

5.45 p.m.—The Chimes of 2FC.  
 5.50 p.m.—The "Hello Man" talks to the children.  
 5.55 p.m.—A Social Story.  
 6.00 p.m.—Dinner Music.  
 7 p.m.—"Big Ben." Last minute sporting information by the 2FC Racing Commissioner.  
 7.10 p.m.—Dalgety's Market News (wool, wheat, stock).  
 7.25 p.m.—Fruit and vegetable markets.  
 7.35 p.m.—Weather and shipping intelligence. Stock Exchange information.  
 7.55 p.m.—Late "Evening News" news service.  
 NIGHT SESSION.  
 7.45 p.m.—The Chimes of 2FC and programme announcements.  
 7.55 p.m.—Studio Items.  
 8 p.m.—Miss Peggy Dunbar, contralto: "Slow, Horse, Slow" (Mallinson).

## Just Arrived ex R.M.S. "Aorangi" The World-famed Balkite "B" Eliminator.

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for sets with  
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and up to  
135 Volts.  
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4.2 p.m.—STUDIO ORCHESTRA.

"Sweet Wanderings" (Lange).  
"In the Bungalow" (Lange).

4.7 p.m.—LAW, JAMES, Coleman,  
"Symphonies."

4.14 p.m.—STUDIO ORCHESTRA.

"Scherzo" (Mendelssohn).

4.20 p.m.—DORIS WALKER,  
"Humorous Impressions."

4.26 p.m.—MRS. M. CALLAWAY MAHOOD,  
"Art in Modern Life."

4.33 p.m.—"Herald" News Service: Stock  
Exchange Information.

4.40 p.m.—Close Down.

EVENING SESSION.

CHILDREN'S HOUR.

Hosteller ..... GAILY DONALD MacLEAN

Speaker ..... STEVENS SILVER BAND.

4.49 p.m.—Answers to letters and birthday  
greetings.

4.56 p.m.—STEVENS SILVER BAND.

March—"Heros of Liberty" (Bauer).

Vallette, "Spring Blossoms" (Eugene  
Lecocq).

4.53 p.m.—"BILLY BUNNY" has a story for  
the little ones.

4.59 p.m.—STEVENS SILVER BAND.

Two-Step, "Sammy's Birthday" (J. R. Dulch).

Polka, "On the River" (Paul van Loan).

4.52 p.m.—CAPTAIN DONALD MacLEAN,  
The End of Baccanterra and the Results  
Achieved.

4.55 p.m.—"Arcus" and "Herald" News Ser-  
vice: Weather Synopsis; Shipping Move-  
ments.

4.52 p.m.—Stock Exchange Information.

4.52 p.m.—First Market Reports by J. R.  
Herrert, Ltd., Harbor Prices.

4.58 p.m.—River Reports.

4.55 p.m.—Market Reports of Fruit, by the  
Victorian Fruitgrowers' Association, compiled  
by "The Fruit World," exclusive to 3LG.

NIGHT SESSION.

Speakers:

MR. S. A. COPE.

"CAROLAN."

MR. H. K. LOVE.

MR. C. J. WILLIAMS.

Artists:

O'MARA AND BURKE.

STATION TRIO.

BERRY, HOLT, Contralto.

H. WALLER, Baritone.

META PELHAM.

THE FUTURISTS.

JAMES RILEY, Tenor, and

LEE WHITE and CLAY SMITH.

ELSA STRALIA and MAXIM BRODI.

THE STUDIO ORCHESTRA.

COLLINGWOOD CITIZENS' BAND.

Conductor, Mr. F. C. Johnson.

JOE ARONSON and HIS SYMPOCATING  
SYMPHONISTS.

POPULARITIES.

7.15 p.m.—Under the auspices of the DE-  
PARTMENT OF AGRICULTURE, MR. S.  
A. COOK will speak on "Cultivation—  
Maintaining Fertility—Chorus Solo."

7.20 p.m.—STUDIO ORCHESTRA.

"First Symphony," 1st Movement (Beet-  
hoven).

7.40 p.m.—O'MARA and BURKE, Entertain-  
ers from the Emerald Isle.

Chas. O'Mara,

"The Auld Plead Shawl" (Halt Haynes).

"Crusheen Lawn" (Brunel Lovel).

Ada Burke,

"There's Always a Song in an Irish Heart"  
(E. Ball).

7.50 p.m.—STATION TRIO.

"Daddy Song" (Schubert).

8.0 p.m.—BERRY, HOLT, Contralto,

"The Arrow and the Song" (Balfie  
Stephenson).

"Ships That Pass in the Night" (T. W.

8.7 p.m.—COLLINGWOOD CITIZENS' BAND,

March, "The Tollers."

Post-trot, "Mary Lou."

8.17 p.m.—H. WALLER, Baritone,

"The Sleepy Song" (Barry).

"The Cobbler's Song."

8.24 p.m.—STUDIO ORCHESTRA.

"First Symphony"—2nd Movement (Beet-  
hoven).

8.30 p.m.—META PELHAM, Recital.

"Spoken Silence."

"What My Love's Said."

8.40 p.m.—COLLINGWOOD CITIZENS'  
BAND.

Overture, "Don Quixote"

Cornet Solo, "The Rosary," F. Crawley.

8.50 p.m.—LEE WHITE and CLAY SMITH.

Will entertain you with selections from  
their repertoire.

8.6 p.m.—MR. H. K. LOVE,

"Technician."

8.10 p.m.—STUDIO ORCHESTRA.

"Indian Summer" (Lake).

8.15 p.m.—Announcement.

8.15 p.m.—ELSA STRALIA and MAXIM  
BRODI.

Maxim Brodi,

"Lungi Dal Caro Bala" (Sarti).

"My Darling Celia" (Wilson).

Elsa Stralia,

"They Say" (Franz).

"Errand" (Verdi).

8.24 p.m.—British Official Wireless News  
from Rugby: Weather Synopses.

8.27 p.m.—DEEY, HOLT, Contralto,

"Out on the Road" (Miss Sylvia Dolley).

"A Pearl for Every Fair" (L. Lofte).

8.24 p.m.—"CARDIGAN" Mr. H. W.

WOLFF, Secretary, Editor of the "Arcus"  
and "Assemblage," will speak on Saturday  
Evening.

8.4 p.m.—WALLER, Baritone,

"One Perfect Hour With You" (Barrett).

"I'll Sing Thee Songs of Arms" (Clay).

10.17 p.m.—"THE FOURHISTS" present  
their Radio Hour.

MICROPHONICS.

The Companies ask you to listen to

GUS DAWSON and IRA VANDA around  
a little tune.

DIMBA DIESMOND becomes more diabolical  
than ever.

A Pinetree, "SOLD AGAIN," with IRA

VANDER, GUS DAWSON, and CYRIL

NORTHCOTE.

IRA VANDA talks of "Visions of the Baby,"

DESSY and CYRIL NORTHCOTE say a  
few words to each other.

THE COMPANY sing a Finale.

10.21 p.m.—"Arcus" News Service: Road  
Notes supplied by the Royal Victorian  
Automobile Club of Victoria.

10.41 p.m.—JAMES RILEY, Tenor,

"Mary Lindy" (Strickland).

"It is a Charming Girl I Love" (Berthold).

10.45 p.m.—COLLINGWOOD CITIZENS'  
BAND.

Walt, "Forest Flowers."

March, "Entry of the Gladiators."

11.0 p.m.—OUR GREAT THOUGHT

"Two things, well considered, would pre-  
vent many quarrels, first to know if well  
acquainted whether we are not disputing  
about terms, rather than things, and  
secondly to examine whether that on which  
we differ is worth contending about."

—COLTON.

11.1 p.m.—JOE ARONSON and HIS SYM-  
POCATING SYMPHONISTS.

"By The Sun of a Bone" (Feldis).

"Sunday" (Miller).

"Hello, Little Girl of My Dream" (Beck).

"Hello Aloha" (Baer).

"The Original Black Bottom" (Henderson).

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

"Let's all Hurray Ford" (Leslie).

"Ruffenreddy" (Piano Solo) (Barry).

"The More We Are Together" (Campbell).

"Mary Lou" (Leman).

"Tix a Lix—Walt of the Bells" (Britt).

"Hully Gully" (Aket).

"Somebody's Lonely" (Davis).

"A Cup of Coffee, a Sandwich, and You"  
(Meyer).

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

"Just One More Kiss" (Owens).

11.40 p.m.—GOD SAVE THE KING.

## 3AR, MELBOURNE

Friday

MORNING SESSION.

11.0 a.m.—Selections on the Brunswick Pan-  
trophe.

11.30 a.m.—British Official Wireless Press re-  
ceived from Rugby: Super Wireless Station,  
England: Express Train Information; "Age"  
News Bulletin, exclusive to 3AR.

12.0 p.m.—The Signal China from G.P.O.;  
Studio Barometer and Outdoor Thermometer  
Readings; 1st Weather Forecast; Events  
of the day.

12.5 p.m.—Musical Selections from the Studio.  
 12.50 p.m.—Broad Exchange News.  
 12.59 p.m.—Musical Selections from the Studio.  
 12.55 p.m.—Mail News; Shipping Movements.  
 1.9 p.m.—Close Down.

## AFTERNOON SESSION

2.20 p.m.—Studio Orchestra.  
 "June Love" Selection (Friedl).  
 2.25 p.m.—Mr. Frank W. Zither, Clarinet.  
 "C Minor Concerto" (Vachon).  
 2.40 p.m.—SAR Dance Orchestra.  
 "A Message From Moscow."  
 "Valse."  
 "Princess Betty's Lullaby."  
 2.45 p.m.—Miss E. Dunsley, Piano.  
 "Polka for C. Sharp Minton" (Chaplin).  
 2.5 p.m.—Studio Orchestra.  
 "High Jinks Selection" (Friedl).  
 2.54 p.m.—Miss Dulce Joseph, Soprano.  
 "Valse D'Amor" (Furgel).  
 "My Heart's Desire."  
 2.57 p.m.—SAR Dance Orchestra.  
 "Ho, Ho, Ho, Ha, Me Too."  
 "Black Bottom."  
 2.58 p.m.—Mr. R. Pettifer, Violin.  
 "Serenade" (Pergament).  
 2.59 p.m.—Studio Orchestra.  
 "Daddy Dill Selection" (Gieshars).  
 2.59 p.m.—Time Signal Chime from G.P.O., 2nd Weather Forecast; SAR Dance Orchestra.  
 "The Cruise to Plant a Rose in California."  
 "Dream of Love and You."  
 "Drifting and Dreaming."  
 3.20 p.m.—Miss Dulce Joseph, Soprano.  
 "Chanson de Erosion" (Gieshars).  
 "Valse" (Kennedy Russell).  
 3.25 p.m.—Studio Orchestra.  
 "Selections."  
 3.45 p.m.—Singing Amusement Studio.  
 3.5 p.m.—Time Signal Chime from G.P.O., Close Down.

## EARLY EVENING SESSION

6.45 p.m.—Children's Corner—Jimmy Jackson and the Farmyard Five.

## EVENING SESSION

7.50 p.m.—Mr. George Beattie, of the Beattie Physical Culture College; Physical Culture Talk.  
 7.55 p.m.—British Official Wireless Press.  
 Studio barometer and outdoor thermometer readings.  
 Racing, theatrical and sporting events of the evening week reviewed by Field Glass.  
 Recital from the works of Mr. Pierre Stappers, Australian composer.  
 8 p.m.—Time signal chime from G.P.O.  
 Instrumental Trio—Violin, Miss Eunice Gregory; cello, Miss Elizabeth Lester; piano, Miss Marjory Firth.  
 "Serenade."  
 "Gavotte."  
 8.5 p.m.—Miss Edna Stappers, soprano.  
 "Lullaby."  
 "West, West," bird song.  
 8.15 p.m.—Miss Elizabeth Lester, cello.  
 "Nocturne."  
 "Valse."  
 8.22 p.m.—Miss Edna Stappers and Mr. Will Phillips, vocal duets.  
 "Bonheur."  
 "Ave Maria."  
 8.29 p.m.—Miss Eunice Gregory, violin.  
 "Theme and Variation."  
 "Valse."  
 8.30 p.m.—Ten minutes with the composer, Mr. P. Stappers.—A Chant.  
 8.45 p.m.—Miss Marjory Firth, piano.  
 "Air de Ballet."  
 8.52 p.m.—Mr. Will Phillips, tenor.  
 "Indian Serenade."  
 "My Madonna."  
 9 p.m.—Instrumental Trio.  
 "L'air Religieuse."  
 "Lullaby."  
 9.5 p.m.—Moments of pleasure and fun, with Mr. Milton Chick, baritone; Mr. W. J. Caffrey, Irish harpist, and Miss Molly Lusk and Mr. Geoffrey Mack—Shetk Artista.  
 Mr. Milton Chick, baritone:  
 "Gondie Dame Priscilla."  
 "You Dear, and I."  
 (From a stack of little songs by Composer Clark.)

# Exide

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## A New Valve.

A new valve, a production of the original maker of the well-known True Blue Valve, has recently come on the market. It is called the ZETKA Process Tube, and is different to the ordinary valve, as by the Zetka process the magnesium deposit (the silver coating inside the valve) has been eliminated. This enables the valve to carry a plate voltage up to 250 volts with increased signal strength, a notable achievement in Radio Tube Development. One of the many noticeable improvements is that it produces lower tones than has previously been possible. The bass viol, the Drums, and the bass saxophone are now truly musical. The incorporation of an entirely new process, eliminating the magnesium flux method of exhaustion, gives the Zetka Valve a uniformly higher vacuum, resulting in a purer, clearer tone, and more volume, and unlike the ordinary valves, it is claimed that they do not depreciate and are as perfect for reception during the last hour as the first. Like the True Blue, they are non-microphonic, thus preventing the annoying ringing noises so detrimental to quality reception.

This clear glass process has been patented by the manufacturers, and they claim that the total elimination of silvering has remedied a multitude of radio ills. Tone is glorified to its perfect naturalisation, clear, mellow and non metallic.

This new Clear Glass Valve will be of interest to all experimenters and listeners, and to bring it within the reach of all, it is being placed on the market at the price of ordinary valves, viz., 20/1A type (4 amp.) at 11/-, 499 type (.06) at 13/-. The sole agents are W. Maling and Company, 30 Market Street, Sydney.\*

## Resistance Coupling

Lets the pure tones through. Better than Transformers and less expensive at the new reduced price.



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W. Maling & Co.  
30 Market Street, Sydney

- 8.15 p.m.—Mr. W. J. Caffrey, Irish humorist. In some good, old Irish stories.  
8.23 p.m.—One Act Play, "The Tent Kiss" (Robin Howard).  
Character:  
Marian: Miss Molly Locke.  
Jack: Mr. Geoffrey Mack.  
Scene—A country house. Time, evening.  
8.31 p.m.—Big Milton Chick, baritone:  
"O my Queen" (Arabian).  
"A Vucchella" (Tosti).  
8.44 p.m.—Mr. W. J. Caffrey begins on more Irish humor.  
8.52 p.m.—Miss Molly Locke, A child im-  
pressionist, entitled, "I couldn't help it,  
could I?"  
"Don't you mind it, Honey" (Roma).  
10 p.m.—Time signal chime from G.P.O.  
Studio baron-der readings.  
"Age" news bulletin, exclusive to 3AR.  
Leggitt's Orchestra.  
11 p.m.—Time signal chime from G.P.O.  
Close down.

## Saturday, June 4 2FC, SYDNEY

- MIDDAY AND AFTERNOON SESSION.  
12 noon—"Big Ben" and programme an-  
nouncements.  
12.3 p.m.—Stock Exchange, first call.  
12.3 p.m.—Official weather forecast, rainfall,  
temperatures, astronomical memoranda, ship-  
ping intelligence, mail services.  
12.5 p.m.—Studio music.  
12.50 p.m.—Summary of "Sydney Morning  
Herald" news service and cables.  
Rugby Wireless News.  
12.55 p.m.—A Talk on Gardening by Mr. G. J.  
Lockett ("Roddam").  
12.59 p.m.—Studio music.  
1.3 p.m.—"Big Ben." Weather intelligence.  
1.5 p.m.—"Evening News" midday news ser-  
vice.  
Racing events in connection with the racing  
meeting at Rosehill will be announced in  
the running direct from the course by the  
2FC Racing Commissioner.  
During racing intervals musical items from  
the Studio will be given by Mrs. Tom Fog-  
gitt, novelty pianist.  
Results will be given of all grades of foot-  
ball, tennis, golf and the result of the 8-  
hour Interstate rowing on the Nepean  
River.  
4.30 p.m.—Complete Reprise of the After-  
noon's Sporting Events.  
5 p.m.—"Big Ben." Close down.  
EVENING SESSION.  
5.45 p.m.—The Chimes of St. Paul.  
5.50 p.m.—The "Hello Man" talks to the child-  
ren.  
6.30 p.m.—A serial story for the older ones.  
6.40 p.m.—Dinner music.  
7 p.m.—Late sporting information.  
7.15 p.m.—Weather intelligence.  
7.18 p.m.—Late "Evening News" news ser-  
vice.  
7.35 p.m.—Studio music.  
NIGHT SESSION.  
7.45 p.m.—The Chimes of St. Paul.  
Programme announcements.  
8 p.m.—BROADCAST FROM THE CRYSTAL  
PALACE THEATRE, SYDNEY:  
Orchestra under the baton of Mr. G. Harry  
Stone.  
Bachmannoff's Prelude and the Russian  
Rag.  
8.10 p.m.—Mr. Donald Mack, baritone.  
8.15 p.m.—FROM THE CRYSTAL PALACE  
THEATRE, SYDNEY:  
Orchestral items incidental to the film,  
"The Volga Boatman."  
The Russian Choir will be heard in the song,  
"The Volga Boatman." Mr. Harold Har-  
tie, bass, and Miss Dorothy Haywood will  
sing "Petruška."  
8.20 p.m.—From the Studio:  
The Radio Revellers organised by Mr. Laurence  
Halbert in their opening chorus.  
8.32 p.m.—Miss Gladys Fimister, soprano:  
"Do you know my Garden" (Wood).  
8.36 p.m.—Mr. Charles Lawrence, entertainer:  
"You can't please Everybody" (Callati).  
8.40 p.m.—The Revellers' Dance Band.

- 8.52 p.m.—Radio Burlesque by Mr. Laurence  
Halbert and Mr. Wally Baynes.  
8.56 p.m.—Miss Peggy Paul, alto:  
"O, if I only had You" (Friend).  
9 p.m.—"Big Ben." More Dance Music by the  
Revellers' Dance Band.  
9.8 p.m.—Miss Gladys Fimister, soprano:  
"The Snow Man" (Peppe).  
9.10 p.m.—Mr. Charles Lawrence, entertainer:  
(a) "A Flaky Fishing Story."  
(b) "Forgetful" (O'Hagan).  
9.20 p.m.—A Radio Sketch by members of the  
Revellers.  
9.27 p.m.—Mr. Donald Mack, baritone.  
9.32 p.m.—Revellers' Dance Band.  
9.42 p.m.—Miss Gladys Fimister, soprano:  
"Forest Echoes" (Phillips).  
9.44 p.m.—Mr. Wally Baynes, comedian.  
9.45 p.m.—2FC Dance Band with Mr. Len  
Maurice, popular baritone.  
9.58 p.m.—Novelty Sketch.  
10 p.m.—"Big Ben."  
Miss Peggy Paul, alto:  
"Then I'll be Happy" (Friend).  
10.5 p.m.—2FC Dance Band; Mr. Eric Pearce,  
conductor.  
10.15 p.m.—Final Chorus by the Revellers.  
10.20 p.m.—2FC Dance Band.  
10.26 p.m.—Mr. Laurence Halbert, baritone.  
10.35 p.m.—2FC Dance Band.  
10.45 p.m.—Late news and announcements.  
10.48 p.m.—2FC Dance Band.  
11 p.m.—"Big Ben."  
11.15 p.m.—The 2FC Dance Band will play  
dance numbers until 11.45 p.m.  
11.45 p.m.—"Big Ben."  
National Anthem.  
Close down.

## 3LO, MELBOURNE.

Saturday.

- MORNING SESSION.  
THE STUDIO ORCHESTRA.  
FREDERICK GEORGE.  
C. RICHARD CHUGG.  
LEW JAMES AND DODIE WOLFE.  
MAXWELL CAREW.  
AGNES FORTUNE.  
JOE BRINNAN AND IDA NEWTON.  
THE FUTHERS.  
JESSIE SIMPSON.  
BERTHA JORGENSEN.  
Announcer ..... MAURICE DUDLEY  
Accompanist ..... AGNES FORTUNE  
11.0 a.m.—STUDIO ORCHESTRA,  
"The Collier and the Fairy."  
11.10 a.m.—FREDERICK GEORGE, Baritone,  
"I'm a Cornish Man."  
"Dad Around the Corner."  
11.17 a.m.—C. RICHARD CHUGG, Flute,  
"Romance."  
11.24 a.m.—LEW JAMES, in a few  
"Lemonades."  
11.30 a.m.—STUDIO ORCHESTRA,  
"Romance d'Automne."  
11.40 a.m.—DODIE WOLFE,  
"Humorous Impressions."  
11.47 a.m.—AGNES FORTUNE, Piano,  
"Prelude" (Chopin).  
11.52 a.m.—MAXWELL CAREW, Comedian,  
"Humorous Sketch."  
12 noon.—Time Signal: British Official Wire-  
less News from Rugby; Reuter's and the  
Australian Press Association Cables;  
"Argus" News Service.  
12.20 p.m.—STUDIO ORCHESTRA,  
"Martha" (Holstein).  
12.34 p.m.—JOE BRINNAN AND IDA  
NEWTON,  
"Minors."  
"Football Match."  
"You Ought to See Her Now."  
1.34 p.m.—Stock Exchange Information.  
1.43 p.m.—THE FUTHERS, present  
their Radio Revellers' "Patchwork."  
The Company greet you.  
GUS DAWSON will sing and dance a few  
steps.  
IRA VANDA in a grave and gay mood.  
DISMAL DISMOLD and CYRIL NORTH-  
COTE discuss the day's doings.  
A Finale by the Company.  
1.50 p.m.—Description of the York Herald,  
Plelington, by "Musket" of the "Sporting  
Globe."  
1.5 p.m.—Meteorological Information.  
1.48 p.m.—JAMES WILLY, Tenor,  
"My Snowy Breasted Pearl" (Irish).  
"The Lark New Leaves" (Hutton).

# Unconditionally Guaranteed!!

## Read this—

We unconditionally guarantee that the **Astor Five** will out-perform any other Radio Receiver made, regardless of price or number of Valves.

And further, that the **Astor Five** will receive Interstate Broadcast Stations at full loud speaker strength in the city or country, regardless of proximity to local stations. We agree that the **Astor Five** will make good on this guarantee, or you will receive your money back. You to be the judge.

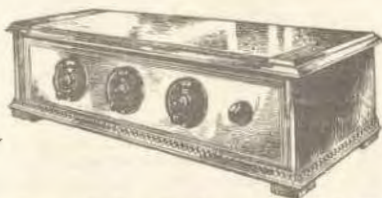
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Speakers,

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## Manufacturers Products Sales Co.,

(H. J. Haggood)

Challis House, 4 Martin Place, Sydney.

'Phone BW 1328

- 1.29 p.m.—STUDIO ORCHESTRA,  
"A Country Girl" (Godfrey).
- 1.36 p.m.—ERIC SMITH, Contralto,  
"Sing" (Mason).
- "The Girls of Heaven" (Doubill).
- 1.47 p.m.—MELITA JONGENSON, Violin,  
& "Lambert" (Gardar).
- 1.53 p.m.—Description of the Princess Handicap, Flemington Races, by "Market" of the "Sporting Globe."
- 1.55 p.m.—STUDIO ORCHESTRA,  
"The Dying Poet" (Gaitzebach).
- 1.57 p.m.—JEANIE SMITH, Contralto,  
"Sappho" (Gardar).
- "Swallow Song" (Scott).
- 2.0 p.m.—Close Down.
- 2.05 p.m.—Description of Hopetoun Steeple at Flemington Races, by "Market" of the "Sporting Globe."
- 2.10 p.m.—LEAGUE FOOTBALL—GEEELONG v. ST. KILDA, Description by Mr. Rod. McGregor, transmitted from Geelong.
- 2.15 p.m.—Close Down.
- 2.15 p.m.—AFTERNOON SESSION.  
JOE ARONSON AND HIS SYNOCPATING SYMPHONISTS.
- 2.2 p.m.—JOE ARONSON AND HIS SYNOCPATING SYMPHONISTS,  
"Burgundy" (Male).
- "Yes, Yes, Blackbird" (Dixon).
- "To-night's My Birthday" (Walt Baby) (Meyer).
- "Hill & Moon is Better Than No Moon" (Reynolds).
- "Dancing" (West).
- 2.25 p.m.—Description of Royal Handicap, Flemington Races, by "Market" of the "Sporting Globe."
- 2.29 p.m.—LEAGUE FOOTBALL—GEEELONG v. ST. KILDA, Quarter Time, Description by Mr. Rod. McGregor, transmitted from Geelong.
- 2.36 p.m.—JOE ARONSON AND HIS SYNOCPATING SYMPHONISTS,  
"In a Little Spanish Town" (Wayne).
- "Me Too—Ho, Ho! Ha, Ha" (Brown).
- "I've Been Wasting My Dreams Over You" (Brown).
- "Take in the Sun, Hang out the Moon" (Brown).
- "That's Why I Love You" (Donaldson).
- "The Lamp" (For You) (Hathaway).
- "The Village Blacksmith" (Moore).
- 2.40 p.m.—Description of Sandringham Handicap, Flemington Races, by "Market" of the "Sporting Globe."
- 2.44 p.m.—JOE ARONSON AND HIS SYNOCPATING SYMPHONISTS,  
"Kestrel" (Lalor) (Miller).
- "There Ain't No Naylor in Mr. Baby's Eyes" (Kahn).
- 2.48 p.m.—LEAGUE FOOTBALL—GEEELONG v. ST. KILDA, Half Time, Description by Mr. Rod. McGregor, transmitted from Geelong.
- 2.51 p.m.—JOE ARONSON AND HIS SYNOCPATING SYMPHONISTS,  
"You've Got to Back Shuffie" (Hawks).
- "That Samson and Delilah Melody" (Gier).
- "Here's Little Thing" (Spencer).
- "No Love" (Adler).
- "Selected."
- 2.53 p.m.—Description of Buckingham Welter, Flemington Races, by "Market" of the "Sporting Globe."
- 2.55 p.m.—LEAGUE FOOTBALL—GEEELONG v. ST. KILDA, Three-quarter-time, Description by Mr. Rod. McGregor, transmitted from Geelong.
- 2.57 p.m.—"Herald" News Service: Stock Exchange Information.
- 2.59 p.m.—Results of the University Boat Race, Sydney, will be given as they come to hand.
- 3.0 p.m.—LEAGUE FOOTBALL—GEEELONG v. ST. KILDA, Final Score, by Mr. Rod. McGregor, transmitted from Geelong.
- 3.10 p.m.—Close Down.
- 3.10 p.m.—EVENING SESSION.  
CHILDREN'S HOUR.  
EUREKA—"LITTLE MISS KOOKA-MURRA"  
O'MARA AND BURKE.  
GERTHON ALMETHONG.
- 3.15 p.m.—Sporting Results.
- 3.20 p.m.—Answers to letters and birthday greetings.
- 3.30 p.m.—O'MARA AND BURKE,  
"The Road to the Green Shovel."  
"Little Town in Old Country Down" (Capes and Handson).
- "Ducky Day."

# The Resco Neutrodyne!

We have made great claims for our wonderful set, and are pleased to say that all our claims have been substantiated.

Hundreds of satisfied users have written telling us of the wonderful results achieved by the Resco Neutrodyne.

Read what Mr. Stanley Brett, of Thangool, Queensland, says:—

"I am getting wonderful results with the Resco Neutrodyne receiver. I will give you a small list of stations that I have already logged on the loud speaker:—1YA, 4YA, 5KA, 5DN, 5CL, 5LO, 5DR, 5AR, 2FC, 2BL, 2GB, 2KY, 2UW, 2UE, 2BE, JOCK (Japan), and many amateurs. . . . I am well satisfied with these results, considering the price. There is one set in this district which cost £82/-, and for distance getting this Neutrodyne has 'put it across' the more costly set."

This is typical of many letters which we have and you are invited to come and see them for yourself.

Hear the Resco Neutrodyne at our showrooms or in your home.

## LOOK AT THE PRICES!

Table Model (a) . . . . .	£19 10 0
Floor Model (b) . . . . .	£27 10 0
Polished Maple or Oak.	
Floor Model (c) . . . . .	£29 10 0
Polished Rosewood.	

All Models handsome in appearance, and add to the furnishing of the home.

Easy Terms. Easy Terms.

A Small Deposit permits you to take one home.

We now have a De Luxe Model which is built into a Bureau. This Bureau is made from the finest of selected timbers, full piano polish, of different timbers to match the furniture of your own room. The Resco Neutrodyne is at the top, and is covered by two inlaid doors. The front opens down, revealing a luxurious Bureau, complete with pigeon holes. Come and see this—the finest model in Sydney. £45:10:0

## Radio and Electrical Supply Co.

40 PITT STREET — (near Quay) — SYDNEY

Phone B1817

6.5 p.m.—"LITTLE MISS KOOKABURRA" will tell you how.  
 "Pass and Fish Run Away."  
 7.10 p.m.—"GENTRUDE ARMSTRONG" Pipe Selection.  
 6.50 p.m.—"LITTLE MISS KOOKABURRA" The next instalment of the exciting story "The Cruise of the Smokey Jane." (A Terrible Fish).  
 6.55 p.m.—"Arena" and "Herald" news review. Weather synopses. Shipping movements.  
 6.47 p.m.—Stock Exchange information.  
 6.52 p.m.—Fish market reports by J. R. McNeill Ltd. Rabbit prices.  
 6.55 p.m.—Rivers Report.  
 6.58 p.m.—Market reports by the Victorian Producers Co-operative Co. Ltd. Newmarket sheep sales. Poultry. Grain. Hay. Sugar. Jute. Dairy Produce. Potatoes and Onions.  
 7.0 p.m.—Market reports of Fruit, by the Victorian Fruitgrowers' Association, compiled by the "Fruit World" exclusive to B.O.

### NIGHT SESSION.

Speakers:

MR. R. RAWSON  
 MR. E. FESCOTT  
 DR. LEACH  
 MR. NORMAN McCANACE

Artists:

LEE WHITE and CLAY SMITH  
 ELSA STRALIA and KAZIM BRODI  
 EDUARD LAMBERT  
 RAYMOND LAMBERT  
 BERYL HOLT

BRUNSWICK CITY BAND

WRESTLING MATCH.

Announced . . . . . ALFRED ANDREW.  
 Accompanied . . . . . AGNES FORTUNE.

7.15 p.m.—MR. R. RAWSON will speak on "Esperanto."

7.30 p.m.—MR. E. FESCOTT:

"Associated Linnæi Eating Plants."

7.45 p.m.—DR. LEACH:

"Silts and Avocets."

8 p.m.—BRUNSWICK CITY BAND:

March, "The Colonel's Parade" (Hawes).

"Mazurka" (Greenwood).

8.10 p.m.—BERTL HOLT, contralto:

"The Last Hour" (Kramer).

"Break, Break, Break" (Cass).

## Make your own

# "B"

## Battery

A rechargeable B Battery is very easily made at home.

Many people have done so, why not you?

In "Wireless Weekly," November 19th, 1934, complete instructions for making a battery of 110 cells is given.

Amongst the few parts required are 6 dozen either of the following air glass tubes, which may be purchased from us:

Glass Tubes, 4 1/2 in. x 1 in., 2/6 doz.

Glass Tubes, 6 1/2 in. x 1 in., 2/6 doz.

Glass Tubes, 8 1/2 in. x 1 1/4 in., 3/6 doz.

Securely packed and post paid.

All these tubes are sturdy built, and are ideal for the purpose.

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Write, ring or call on

**H. B. SELBY & Co. Ltd.**  
 Suppliers of Chemical Apparatus and  
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Bolton Place, Sydney, B 1745.

Also—

339 Swanston Street, Melbourne.

Friday, 27th May, 1927.

- 10.30 a.m.—RAYMOND LAMBERT, editor,  
"English Sports and Pastimes" Part I and  
II (Lyons).
- 11.0 a.m.—KLA SVALLA AND MAXIM  
BROD.  
"Der Jah Sevendal" (Tschakowitsch).  
"Woher Sie Was" (Händel).
- MAXIM BROD,  
"Wofür Ackerer ein Honor" (Saini Sowa).  
"Agerer Gerd Thee" (Gaidinot).
- KLA SVALLA,  
"Drei 70h Levels Nacht" (Ronald).
- 11.30 a.m.—MR. NORMAN MACANER will  
give a description of the Wireless Match  
at the Melbourne Stadium.
- 11.45 a.m.—EDOUARD LAMBERT, editor,  
"Journal Français" (France).
- 12.0 a.m.—L.F. WHITE AND CLAY SMITH  
will entertain you with selections from their  
"Discards".
- 12.15 p.m.—BRUNSWICK CITY BAND  
concerts in "Bygones" (Hube).
- 12.45 p.m.—Late Sporting Results  
British Official Wireless News.  
Amateur Sports.
- 1.00 a.m.—BRUNSWICK CITY BAND.  
"Goodnight" (Hilgund).
- 4.15 p.m.—ROYAL VICTORIAN AUTOMOBILE  
CLUB OF VICTORIA'S SAFETY MEAS-  
URES.
- MOTORISTS: "Always use low or second  
gear when descending very steep hills. Never  
stop the dangerous practice of coasting  
with the gear lever in neutral."
- THE GREAT THOUGHT:  
"A man's possessions are just as large as  
his own soul. If his (material) success across  
the world serves own him, not so the  
wise." L. Hildes.
- 11.7 p.m.—JOK ARONSON AND HIS  
SYNCO-SYMPHONISTS.  
"Moonlight on the Geese" (Wallace).  
"Some who first whined a Tune" (Hrunt).  
"While the Years go Drifting By" (Kahn).  
"Our Heads here comes Charlie" (Meyer).  
"He could not Save His Hood" (Ratovich).
- 11.30 a.m.—GOD SAVE THE KING.

# WIRELESS WEEKLY

Registered Trade Mark.

Published by Arthur William Watt at  
"Publishing," Levermore Street, Lavender Bay,  
for the Proprietors, Wireless Newspapers  
Limited, 51 Castlereagh Street, Sydney; and  
printed by Macchani & Co., Ltd., 51a Goulburn  
Street, Sydney.

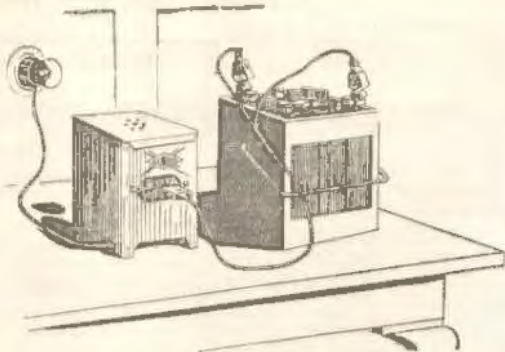
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Subscription rates—Twelve months (25  
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10 ROWE STREET, SYDNEY

Next Hotel Australia

Phone B 2261



## All Readers' Queries Answered Here

**W.T.H. (UNKNOWN).**—Write again giving me your address.

**A.E.S. (CAMPSIE).**—Many thanks for information, but I have tried it and don't recommend it for the home constructor in this country.

**C.R.M. (HABERFIELD).**—Add 10 more turns to reaction and increase the plate voltage of detector valve. Adhere to coil winding data published.

**W.L. (EASTWOOD).**—Try the honeycomb coils.

**F.S. (TURRAMURRA), W.S.H. (MURRAMBI), J.E. (BRISBANE).**—There are no copies of this issue available.

**T.P.R. (BANKSTOWN).**—Glad to hear of the excellent results with the Ekstretex Two. I would advise you to use the coils you mention.

**G. H. HAMILTON.**—Q: I have a 2 Amp. Tuner Charger, and wish to charge 2 six volt batteries or two 48 volt batteries. Could you tell me what is the correct way to charge them (Series or Parallel)?

**A:** Charge batteries in Parallel.  
**T. SMITH (DALBY, Q.).**—You have omitted to send the circuit you mention as enclosed. To connect a C. battery to a PI. Unfortunately, you did not state the number of valves in use. However, let us suppose there are three. Link -F terminals of both A.F. transformers, and from this wire joint to -C battery. xC is joined to -A.

**INQUIRER (BUNDAMBA, Q.).**—Q: Could you assist me in finding what is wrong with my set? I get a continual crackling noise throughout the whole of the programme, and only for a second, at odd times, does this noise cease. Incidentally, my batteries are quite O.K. Both A. and B. batteries being of the accumulator, I naturally keep them well charged.

**A:** My best advice to you is to inform the maker of your receiver, perhaps they can help you. Meanwhile, take a peep for yourself to see if there are any loose connections.

### QUERIES

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

**C.C. (GLERE).**—Build the Neutrodyn.

**J.T. (LISMORE).**—The wet weather creates a better earth return, lessening resistance, hence the change. Advise you to use 90 volts B. battery for the audio stages.

**A.H. (MURRURUNDI).**—A 5 valve Neutrodyn.

**W.L. (KYOGLE).**—Your condensers are quite suitable. A S.L.F. condenser spreads the stations over a greater area on the dial.

**C.D.H. (CROYDON PARK).**—At least two stages of audio frequency are required after the crystal to give loud speaker results. Why not build a two-tube set. It would be cheaper.

### TRANSFORMERS

elep. S.F.E. 2nd # 0099

Built up to a specification and wound, lamination iron cut to any size from stock. Prices and estimates on application.

**O'DONNELL, GRIFFIN & CO., LTD.**  
53 Druitt Street, SYDNEY.

Phones: C 4545 and 4546.

**M.R. (CHATSWORTH ISLAND).**—The Extraordinary One Valve will not function well with two stages of audio following it. Read the article carefully. Try one stage only. The condenser you mention is quite alright, so is the valve.

**C.W. (NEATH).**—Audio frequency Kmmru 5 to 1. Grid Condenser 00025 mfd.

**A.E. (SUMMER HILL).**—You are shorting your C. battery. Dispense with the lead from the P. of the transformers to the A.—stopper and leave C. battery as suggested.

**H.W.B. (ENFIELD).**—Build the Two Valve receiver described 25/2/37.

**LIKE'ERNO (BRISBANE).**—Have built a Harznes Reflex one valve, which brings in 2FD, 2BL, 3LO, 6CL, 6DN as very good 'phone strength, and 4GG is all to be devoted on the speaker for sweetness, but all this is obtained only when I disconnect the crystal detector (Harzies), leaving the circuit open. When detector is inserted, the strength is very weak. Have tried all pressures on the crystal to no avail, so I have discarded same.

**Q. (1):** Can you give me any reason for this?  
**Q. (2):** Can the aid circuit be hooked up in any way to dispense with crystal?

**A:** (1): Is the above log considered fair for this set?

**A:** As explained over and over again, the cause of the crystal not functioning is not sufficient B. battery or too much A. battery, or unsuitable crystal. Try for yourself. Your results are quite good.

**H.H. (CANTERBURY).**—See the new issue of "Radio."

**R.L.W. (NEUTRAL BAY).**—Naise or lower the aluminium immersing the leads from the Rectifier in a glass of water. Adjust the aluminium until the greatest effervesence is noted, then charge up battery, reversing polarity.

**H.E.S.D. (NKWTOWN).**—The receiver you display is not sufficiently selective. Build the Extraordinary One Valve, 25/10/36.

**T.J.W. (GRANDCHESTER, Q.).**—Reduce .001 condenser to .0005, and install variable grid leak. Scrape the panel; use Detector or Radion.

## Transform Your Wireless Set...

By Fitting the WORLD'S BEST INTERVAL TRANSFORMER.

NEW BRITISH MADE

TYPE AF3 - 42/6



TRANSFORMERS

Impedance:  
at 100 periods, 50,000 Ohms.  
at 500 periods, 410,000 Ohms.  
No better Transformer is available at any price.

The "FERRANTI" Transformer, designed to improve loud speaker results, is constructed with full realisation of this fundamental—"That it is necessary to amplify all sound in accurate proportion in order to get satisfactory from wireless concerts"—which many transformers seem to ignore.

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Dealers please communicate with:

A. BEAL PRITCHETT (Aust.) LTD., Sydney and Melbourne.

WEDMA, LTD., Adelaide — — — EDGAR V. HUDSON, Brisbane.

TYPE AF4 - 32/

Impedance:  
at 100 periods, 17,500 Ohms.  
at 500 periods, 90,000 Ohms.  
The best Transformer at this price.



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You cannot afford  
to be without—

*"Larger and Better  
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