

WIRELESS WEEKLY

Broadcast Programmes a Week in advance

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Friday, January 21, 1927.

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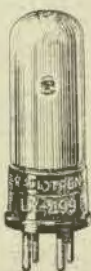
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WIRELESS WEEKLY

VOL. 1, No. 13.

Editorial

FRIDAY, JANUARY 23, 1927.

The Farmer Does Want Radio!

IN our editorial last week we published figures comparing the number of broadcast receiving licenses held in the city with those held by country folk, and asked, does the farmer want radio? An unusually large number of letters by readers from Coonamble to Cowra has convinced us that the farmer does want radio; our question should have been, who is selling the farmer a radio?

It may seem unbelievable in these days of keen commercial competition that a large public—almost a million in number—is waiting to be sold radio sets. But this public is spread over a whole State, and dealers have not seriously attempted to interest the farmer in radio while the city—having a public of little more than a million within a few square miles—has presented such an easy market for their goods.

A country wireless salesman pays the same dealers' fee as the city man, he receives the same commission for selling and servicing a wireless set twenty miles out of town as the city salesman who has perhaps sixpence in tram fares and who sells his sets over the counter. The country salesman knows that he can sell his set but his overhead expenses are so far above those of the city man that a single unorganised effort in the country is not now as profitable as in the city. Obviously, therefore, while a dealer is able to sell his goods in the city he is not likely to attempt to sell in the country. However, he will soon be forced to turn his attention in this

direction for his city market for completed sets is naturally not as good as it was.

That there is a tremendous field for wireless receivers among farmers there is no possible doubt, because wireless broadcasting offers far more benefits to the outback dweller than to any other class in the community. A farmer and his family living thirty miles from the town look to the wireless set to supply all their entertainment all the year round. The city man has many counter attractions taken away from his set.

The fact that those few farmers already possessing radio sets complain that the broadcasting companies ignore them does not alter this. Criticism has been levelled at the broadcasting companies by the traders on this count. They blame the broadcasters for the dearth of receivers in the country. If the broadcasting stations gave more attention to the needs of the farmer-listener, they say, there would be a great demand for sets in the country.

While this argument has a great deal of truth in it, it is hardly fair to the broadcasting companies. The proportion of matter broadcast for the city listeners and country listeners compared to the proportion of country listeners to city listeners shows that the country-man gets more than his share of the programme. While the broadcasting stations must always encourage new listeners, if they wish to be progressive, their first duty is to the present listening public.

Between You And Me And The Microphone

Conducted by Jack Plugge



MR. J. K. POWELL, whose "Cueerle" talks from 2FC are well known, has joined the staff of 2GB as announcer.

WESTRALIAN FARMERS, LTD. (6 WF, Perth), do not contemplate a reduction in their wavelength as a result of the success of 2FC and 3LO on the low waves, according to Mr. W. L. Coxon, manager of the broadcasting department of the company. 6WF now broadcasts from 1250 metres.

"CONDITIONS in Western Australia are totally different from those in the eastern states," says Mr. Coxon, in a letter. "Owing to our long distances and the necessity for a wavelength that will give a long day range, we do not consider that a shorter wavelength would give better service. On the present wavelength we are giving a good service in daylight to many listeners more than 500 miles from Perth."

ALTHOUGH a number of country racing clubs have installed radio receiving sets in their courses on racing days, the Jockey Club has been unable to make up its mind whether to do so or not. At the last meeting of the Committee of the Club, Mr. Kyall moved and Mr. Phillips seconded a motion to authorise a demonstration of a receiving set on the racecourse. After discussion, however, it was decided to leave the matter in abeyance until the Annual Meeting of the Club, when the matter will be discussed in detail.

"THE THING that strikes me about the prospective new studio," said a member of the 3LO staff, who had recently paid a visit to the buildings, "is the vastness of the place. It seems to be immense, possibly because it is so bare at the present moment, but the main studio looks more like a hall, plenty of room for expansion and extension, at any rate." The largest of the studios is approximately 90 feet x 30 feet, and the smaller 40 x 30, so they do cover a little floor space.

THE NEW British Broadcasting Corporation came into operation on January 1.

A STATION in Portland, Oregon, U.S.A., has received the call letters KOIN. Evidently its owners contemplate toll broadcasting.

A WRITER points out that wireless enthusiasts have difficulty in getting a good catch. There's no doubt that something seems to have spoiled this one.

THE HOBART ROTARY CLUB has presented a five valve neutralized radio set to the Tasmanian Institution for the Blind. The set was installed by Mr. Sidney Laws, of Tasmanian Broadcasters, Ltd.

FOR THE FIRST TIME the interior of one of Scotland Yard's six wireless patrol vans was disclosed to public view recently, when a taxi crashed into it. A crowd gathered to see the transmitting and receiving sets.

MAINLY THROUGH the efforts of Captain Ian Fraser, the blind M.P., the bill for Free Wireless for the Blind has passed the House of Commons, England. It is estimated that from 25,000 to 50,000 people will benefit by the measure.

A SWISS SCIENTIST says that the nerve centres which react to music are in the feet. Possibly that is why I often want to kick the wireless set out of the window.



THE NEW IRISH Free State Wireless Bill provides for a committee of at least five members, one of whom will be nominated by the Minister of Education, and another by the Minister for Agriculture.

THE REISS MICROPHONE, now in general use at all large broadcasting stations, was first used in Australia at 2FC. Together with the Marconi round phonograph transmitter it was given a probationary trial at that station. Both have proved conspicuous successes in the improvement of broadcasting.

UNDER the call sign 4GR, the Gold Radio Service, Margaret Street, Toowoomba, Queensland, has begun transmission on a wave length of 294 metres, with a power of 20 watts. The broadcasting schedule is as follows:—Wednesday 7-8, Bedtime stories; 8-10, Musical Items; Sunday, 7-7.30, Bedtime stories; 7.30-8.45, Church Service; 8.45-10.0, Musical Programme. Reports on the above transmissions will be welcomed.

IT IS LITTLE WONDER that the appeal for funds to provide wireless sets for the blind met with such a generous response when there are people in the world with such great hearts as one who wrote to 3LO, Melbourne, last week, "I am a woman who is not able to get about. This will be my second Christmas in bed," said the correspondent.

"I WAS in the Homeopathic Hospital for months," she continued, "and there I met the sweetest and most clever little girl, 14 years old, who was blind. She used to sing and talk to me to make me happy. After I left she went to another hospital, but has since died. I remember how she looked forward to going home and having a wireless. Her name was Margaret, and for Margaret's sake, will you have this 5/- towards wireless sets for the blind." This great hearted woman is in poor circumstances. Her 5/- donation means a lot to her. Probably she will have to economise for a while to make up for it.

The Gentle Art of Pleasing Everybody

By W. T. CONDER

(General Manager of 3LO)

WHAT would you do if you were asked to invent a way of pleasing radio subscribers whose taste you had no means of guessing? Exactly. That's what we did.

There is no road to knowledge of the minds of the public, unless one is a crystal-gazer, with a bit of clairvoyancy and mind-reading thrown in. The only method is by experiment, then more experiment, and still more experiment, jotting down from time to time the "sure-fire" successes, and weeding out the "duds."

3LO ranks, in the estimation of a great many people, as the premier broadcasting station in Australia. It has to please, not only the Victorian, but the dweller in lonely stations beyond Alice Springs, the Tasmanian in the heart of the rugged West Coast, the Queenslander overlooking with a portable set to make the days less long, and even occasional planters in some of the South Sea Islands. It is a tough job, and the first relief we knew was when we came to recognise that it was impossible to please everybody.

Still, within certain limitations, it is possible to devise programmes which contain pleasure for every man, woman, and child in the Commonwealth. 3LO believes that it has succeeded in doing this. The competition for the Perfect Programme has showed one thing very clearly. Replies represented one listener in every six registered as subscribers. That sounds as if one-sixth of our subscribers was disposed to criticise our programmes, but that is a superficial way of looking at the matter. An analysis of the suggestions submitted indicated that 96 per cent. of the suggestion programmes simply follow our lead and cull from our past entertainments, the favorite items of the individuals concerned. It was by re-arrangement, not by originality, that new programmes were devised. There was not one single novelty that has not already been tried. That is a striking tribute

to the work of the men who have worked on 3LO entertainment. It shows unmistakably that they have been on the right track.

Of course, there are selfish individuals who would like whole time jazz, or improving talks that last the whole evening—others would relish long racing discussions; still more would cut out the informational talks on the stock market or the money mart. This is only human nature, and, of course, such suggestions are negligible. By and large, however, we seem to have by a process of evolution, got pretty close to what the public really wants in radio amusement, and all we have to do now is to see that we give that amount of change that people love, and never neglect the chance to broadcast whatever is feasible of what any goodly section of the community would like to hear.

Since its beginning, 3LO has not been unmindful of the necessity for "stunting." An unusual amount of unusual things have been sent over the air. People in far districts know how what the sounds of a great city in its busiest time are like. They have held the pulse of Melbourne and counted its heart-beats. They have been given such a life-like representation of an exploring resources train that they might almost have been on it. They have gone down into the depths of the sea with a diver, and up into the air with an aviator. They listened to a description of the majestic entry into Port Phillip of the American fleet, and they heard, days before they could have otherwise expected, the full figures of Australia's most exciting election to date. Great historical utterances by statesmen on critical occasions, which formerly they read only in cold print, they have heard with all the inflections of the orators as they would have been heard in the actual hall. They have been present, though a couple of thousand miles away, at both the arrival and the departure of King's representatives.



Major
Conder

Great exhibitions of Australia's products, of motors, of the world's latest discoveries have been made almost visible to the absent through the medium of wireless. More than that, we have refrained from broadcasting Parliament.

Popular plays, the talk of the city have been made the talk of the country also, through 3LO. I would be afraid to say how many excellent citizens of the near future have been made so because of the excellent advice broadcast to their parents by the Uncles and Aunts, provided free of cost by this station. Every one knows that relatives are not always an unmitigated blessing. What a boon we have conferred then by inventing wireless ones, who are merely voices, and who can never interfere physically. For that alone 3LO deserves the nation's thanks.

I have written before of the immense field we have covered in public entertainment and instruction. In our first year over 1100 speakers had given addresses, and 1250 artists had

contributed to our programmes. Just think for a moment what it means for 3L0 to have tested and arranged for this multitude. Occasionally we put on an item that does not please anybody. It is only by experiment that we can know. We are feeling round every day for acceptable material. Not a single thing happens in the life of country or city that is not reviewed in our minds as a possibility for broadcasting. Large sums have been spent on giving our subscribers the thrill that comes with listening to the unusual, even if the thrill is of only a few moments' duration.

We have had to remember that frivolity was not our main consideration, nor was instruction. We could not arrogate to ourselves the status of an Air University, whose function was to provide professors for the people. Still, we had to realise that there were many people whose minds were pathetically reaching out for acquirement of knowledge that hitherto they had been unable to obtain, except from expensive books or teachers. The working-class in Australia are not passively content to vegetate after a hard day's work. They are alert, intelligent, wanting to improve their minds. It would surprise many people to know how many of these people look forward to good talks by speakers who "know their skker," as they themselves would describe it. We get letters which prove this, and I am sure that wireless will develop the mentality of this country, and one day the reputation we are now giving through competent speakers will be regarded as elemental. We will have to go a stage higher.

3L0 has been of extraordinary assistance to the police in unravelling

THE NEW HOME.

*The onward march of radio
Grows faster still;
We follow it at 3L0,
And ever will.
Our latest stride, a studio
From which the ether waves will
flow
In manner perfect as we know.
To please and thrill.*

*As spacious as a concert hall
The studio
Will hold an audience of all
Who care to go,
And listeners will feel and hear
With every programme of the year
The vital concert atmosphere
Of 3L0.*

*To trip the light fantastic toe
To music played
In earnest here at 3L0
For man and maid,
Will be an added joy to wax,
And those who merely listen-in
Will find the music by the spin
Improved a shade.*

*We hope that time will bring you
all
To 3L0
To see the latest concert hall
And studio.
Sincerity is the wish expressed,
To subscribe you as our guest;
Your service is the constant quest
Of 3L0. —C.K.*

ours; further, it has had a perceptible influence on hospital statistics. It had broadcast requests for blood for suffering patients, and has

been the means of proving how ready humanity is to come to the aid of the ailing. On one occasion no less than 247 offers were received within 48 hours.

Just within the last few days a broadcast message to a citizen in Queensland to come back to Victoria where a bereavement had taken place in the family, was delivered to one man wanted in 39 minutes, and he was on his way home shortly afterwards. Lost children have been found shortly after they have been missed through broadcast descriptions, and hours of agony in the part of parents have been saved.

Among the achievements of 3L0 I count the entertainment of thousands of youngsters as not the least important. Our children's letters are human documents. They testify to the friendliness of the average child, and to the loneliness of many. The wireless Uncle or Aunt becomes a very real possession of these kiddies, and quite touching presents are received by our four amateur relatives, who, you may be sure, treasure the evidences of affection they receive.

I would not like to have this article read as if it were a boastful declaration that we had found the final secret of success, and were content to rest on our laurels. Far from it, I am convinced that broadcasting is only in its infancy. Next year something may have occurred to alter all our present ideas. What we hope is that with our constant striving after interesting matter, 3L0 itself may contribute to the great work, and may tap the reservoir of ideas which is waiting to be branched. Our subscribers will reap the benefit of any new improvement that is likely to add either to their amusement or to their instruction.



During the two years that the 3L0 has been in existence, few things have done more to justify their existence and amazing progress than the Orchestra, under the direction of Mr. Reginald Bradley.

How a Famous Composer Found 2FC

A Story Stranger than Fiction.

THE waters between Greece and Antolia have a turquoise color, and out of them like fleeces of matrix, the dust-brown islands with tiny arched beaches, yellow and white. For thousands of years men have written and sung of them. Here, "burning Sappho loved and sung," and they were old subjects even to Homer.

A composer of world renown looked across Port Jackson from a ferry boat and caught a resemblance to their turquoise coloring. A bright, clear afternoon in early summer moved the poetry of tone, and color, harmony and grace within him. Pinchgut, Shark, Clark and Garden, on a chart, do not conjure up the Isles of Greece, visions of Lemnos or Lesbos or Chios, but in the lazy haze of the sun beneath a cobalt sky, the composer thought of the legendary home of the Muse. And then, that perhaps here was the home of another Muse, not so old as the nine goddesses which have inspired poets since men believed in Zeus and Mnemosyne, but younger, wilder, and even more beautiful. Here, indeed, lay a theme for one of his famous songs and he hummed a few bars of a melody he hoped soon to place on paper that the world may hum it also. But the day was sweet with the languor of a warm wind and he smiled at his own failure to concentrate. He thought of his last songs, which should even now be fresh from the press. His thoughts wandered. He glanced casually at a sheaf of songs in the lap of the young passenger next to him. He was naturally curious, as a musician will be, over musical pieces, until he saw that they were his own.

Inertia left him there. His own songs—a whole sheaf of them, many as yet only seen in proof form by himself. They could not have been released for public purchase as yet. His eyes wandered to the face of the owner of the songs. A slender undoubtedly, her rounded well developed throat told him that, a soprano probably.

Curiosity consumed him. Would he go boldly forward and introduce him-



Maurice Bealy.

self as the composer of the songs? He hesitated. He was naturally shy about his art, and it would seem a swaggering, egotistical thing to do. Worse, she might not believe him. That would be a frightful situation. It occurred to him that it was on just such pretexts that certain men introduced themselves to unaccompanied young women, especially when they were attractive. What proof had he that he was the composer of the songs? Even if he did not look like that type of man, it was unbelievable that an English composer—whose latest songs were in one's lap, was sitting beside one on a Sydney ferry. It would seem incredulous to this young woman. It was impossible. He would follow her.

He kept track of her next little figure through the crowded Quay.

They boarded a tram together, and between jerky stops the tram swung up Pitt-street. It was an adventure this, he told himself. What a story to tell at home. He wondered again how she had come into possession of the music. He wanted to know this person who was interested enough to carry about an armful of his songs. He wanted just as much to see his songs.

In his musings he almost missed her as she left the tram car at Market-street. Following in her wake, he pushed his way through a throng of people into a large department store.

A department store. He paused; was he to play the part of sleuth following her while she bought silk stockings, perhaps other things—Good Lord!

He must introduce himself at once, and making after her he broke all the laws of chivalry by stepping into the lift ahead of several elderly ladies, and their attendant families. A pressure of some dozen people prevented him from reaching her in the lift.

"First floor—woman's costumes, coats, blouses and skirts, jumpers, knitted garments," droned the liftman.

The composer quivered. But the young woman did not move.

"Second floor, millinery, women's and children's footwear, girls' outfitting, hairdressing."

Hats, shoes, bobbed hair thought the composer and gripped his cane more firmly. But she did not move.

"Fourth floor—boys' outfitting." The composer sighed.

"Fifth floor—toys, perambulators." He glanced hurriedly at the girl again. No, he was certain she was not married.

At the sixth floor she stepped out onto a roof garden. Was she to eat? Nothing better would suit him than to discuss it with her over tea and cakes.

Instead, she turned in the opposite direction, entering a dark doorway. He looked at the neatly lettered sign above the entrance. It read Farmer's Broadcasting Service. So she was a broadcasting artist.

(Continued overleaf)

An idea occurred to him, and he entered. In the studio he introduced himself to Miss Dorothy Ewbank, whose voice is well known to 2FC listeners. He whistled the opening bars of his latest song.

"I wrote it," he told her, simply. "I am Maurice Besly."

And that was how 2FC came to arrange one of the most remarkable of its programmes. On Thursday, January 27th, Mr. Besly will broadcast a lecture-recital from 2FC for the first time in Australia, playing many of his own compositions. Miss Daisy Mangin, soprano, will illustrate his vocal items.

In the ranks of the younger musicians of the day, Maurice Besly may be said to hold a somewhat unique position, in that his already wide fame rests equally upon his acknowledged position as a conductor, and his success as a composer. His conducting has won approval not only in London, the provinces and Scotland, but also in Vienna. The celebrated critic, Mr. Ernest Newman, speaking of Besly's Mozart, wrote, "The finest Mozart performance since the forgotten days of Sir Thomas Besenham."

As a composer, Besly is distinguished for his versatility and his love of melody. He writes with ease and grace, adorning his themes with a sense of harmonic beauty which is modern but never bizarre. In songs his vocal line is always interesting and graceful, and strengthened by a piano for beautiful curves. For the piano he writes fluently, again with a real melodic sense and (as is particularly noticeable in his "Studies in Tone Color") with an ability to obtain effect without undue difficulty.

In his orchestral writing, Maurice Besly shows great feeling for tone values and skill in instrumentation; generally, "The Lullaby for a modern instrument," with its quite lovely tune and delightful sense of humor, is one of the best examples of good light music produced for some time.

Besly has a delicate sense of choral writing, and his technical ability in this direction is well seen in his choral arrangement of Bizet's "Carmen," which has won the approval of many choral conductors and is as successful as it is skillful. Sydney music lovers will remember with keenest pleasure his suite "Chelsea China," played by the Conservatorium Orchestra two years ago, which on this occasion he himself conducted.

Mr. Besly is accompanist to Miss Phyllis Lett, the well known English contralto, who will shortly commence her Australian tour.



We're Broadcasting About:



THE FIRST BROADCAST by Miss Edna Davis will be from 2FC on Saturday, January 22. Miss Davis is a clever instrumentalist; her items will include excerpts from "Il Trovatore" and the "Overture Raymond."

AMONG NEW artists appearing at 2FC is Miss Dorothy Mould (contralto). Miss Mould will be remembered as the assisting artist at the Laugh, O'Hara and Zacharewitch concerts, which created such a furore in musical circles in 1925.

ALEXANDER SVERJENSKY, well remembered as Lydia Lipkowska's artistic accompanist, will appear at 2FC on Friday night, January 21. Mr. Sverjensky is a solo pianist of great brilliance. He has now settled in Sydney, and is a decided acquisition to the musical life of this city.

ON THE HUMOROUS side of the programmes of 3LO we extend a hearty handshake to Mr. George Wynn, a comedian of the "somewhat different" type. With mirthful song and story, he literally carries his audience with him, although he cannot see whether his quips are getting past.

ANOTHER ARTIST to make his debut at 3LO is Mr. Jack Dunne, baritone. In addition to being an accomplished vocalist, Mr. Dunne is acting with Miss Renee Kelly. Although his time is considerably taken up with his stage work, he is continuing his vocal studies whilst in Australia, and, after, hopes to make an appearance in Grand Opera.

ELABORATE PREPARATIONS to broadcast a description of the arrival of the Duke and Duchess of York in Australia are being made by 3LO.

All the forces of the station are being mustered to make the occasion the greatest event of the broadcasting year. Special lines will be laid to every possible function where the Duke will speak, and the descriptive artists of 3LO will cover every moment of the arrival and procession.

QUICK TO RESPOND to the trend of public taste, 2FC have introduced vocal numbers during the dance music by the 2FC dance band. The well-known and popular baritone, Mr. Len Maurice, will be associated with the band in future.

ON MONDAY, January 24, Ws4, dington's King's Cross Orchestra will be broadcast by 2FC. The new Orchestra, under the baton of Mr. E. J. Roberts, is a fine combination, and has already made a favorable impression over the air.

THE VOICE of that well-known Australian Tenor, Mr. Walter Whyte, has been heard per medi m of 2FC frequently of late. Mr. Whyte has had a vast experience in his profession, and studied in England under Flerici. He has toured in all States, New Zealand, Africa and England.

RADIO LISTENERS will welcome the return to 2FC of Miss Goodie Reeve, after a protracted period of ill health. Miss Reeve is being heard in "Talks behind the scenes." She has already chatted with Miss Judith Anderson, who has returned to Australia to play in "The Cobra," and with Miss Stella Wilson, of Gilbert and Sullivan fame. Further talks from the other side of the footlights are being arranged.

CHIEF AMONG the engagements that have been made with artists since the New Year by 3LO is that of Mdlle. Saffno Arnoy, who in private life is Mrs. William James, the wife of the famous Australian pianist. Miss Arnoy is of Russian birth, and carried off the famous Milan Scholarship for operatic singing. She is also a personal friend of Leoncavallo, the composer of "Il Pagliacci," who predicted a great future for the diva. On the sudden death of her parents, Mdlle. Arnoy went direct to London, intending to embark upon a professional career, but the fates decreed otherwise. She met Mr. James at a concert, they were soon afterwards married, and that is the story of her journey to 3LO.

Radio Motor Hunt Excited Thousands

Brisbane Listeners remained at their sets until midnight when 4QG conducted a chase after a motor car by radio. It was one of the most successful stunts yet broadcast from the Station

THE radio motor hunt, conducted by 4QG a few nights ago, was one of the most novel and exciting stunts yet provided by a broadcasting station in this country. It created a night of fun for thousands of people all over Australia, and probably overseas.

A car containing a party from the station, and a representative of the Royal Automobile Club of Queensland, made a tour of the thickly-populated areas of Brisbane and suburbs. The car was notified from the station and a hunt regarding its whereabouts was given. A blue light, which served to distinguish the "mystery motor" was carried at the head of a small mast built up the front of the radiator, and then, together with the number of the car (broadcast from the station) served to enable listeners to distinguish it.

The telephone at 4QG was connected to the transmitter, and all who sighted the car were asked to ring up and report its whereabouts. As they did so their voices were broadcast. Any listener sighting the car was at liberty to hail it, and the car stopped when called upon. Each person stopping the car was handed a slip, was asked to write his or her name and address on it, and post it to the station. The forms were received up to the following Wednesday, when two were drawn from the pile. The

first opened received £2/2/- and the second £1/1/-.

If any proof of the power of wireless were needed it was certainly provided on this night. Within half a minute of the car leaving its starting point at Morningside a listener rushed breathlessly out of his house and called upon it to stop. He was handed a card, and the car restarted. Less than 20 yards further on, another listener ran up almost breathlessly, explained that he had climbed up a hill to catch the car, and secured his card.

The party driving made good progress from Morningside on to the Greenlogies tram terminus, and then were hailed from the verandah of a house. They were asked inside, and took the opportunity of ringing the station and reporting their whereabouts. From then on the car was never left alone. The drive lasted from 8 p.m. until midnight—just four hours—and the distance covered was 25 miles. The average speed was, therefore, just a little more than six miles an hour, which serves to show the number of times it was hailed.

After that during the night more than 1500 people stopped the car and were handed forms. In some places the car seemed to secure a fairly clear run, but once a call went through to the station describing the

directions in which it was heading when last seen, listeners living in that line rushed out and pulled it up.

Throughout the whole evening the drive created widespread interest, and the listeners hailing the car were representatives of every class. Both old and young joined in the sport with great vigor. A well-known M.L.A. waited on his front verandah until after 11.30, and hailed the car noisily. It pulled up and he walked into the street in his pyjamas, remarking: "I have been sitting up all night waiting for you."

The party in the car were simply overwhelmed with generosity. Not a single suburb was visited without some listener making an open invitation to one and all in the car to have supper. As a matter of fact, had all the invitations been accepted, the hunt would still be in progress, and the car would not have returned to the station! Or, more probably, 4QG would have been in the police court.

At 4QG the staff was kept busy. Telephone calls came through from all over the city and suburbs and there were numerous practical jokes which made the affair exceedingly humorous. One caller claimed to be speaking from Crabb Island and said that the car was just passing there; a moment later, a call allegedly from the Pile Light, announced that it was in the middle of the bay. Another, who described himself as Convict 777, also had some remarks to pass about the car. There were also calls from country districts, including the Downs and from New South Wales. Many listeners who had not seen the car demanded that it visit their suburbs and that its occupants have supper there.

Telegrams came in from several places expressing appreciation of the novel transmission and of the enterprise of 4QG in continually supplying something new and interesting. One wire came from Hobart, and another from Mr. Stevens, of Point Lonsdale, Victoria (father of 4QG's chief engineer), saying: "Car passed here 10 p.m. Short of provisions."

The telephonists at Central thought a cyclone had burst upon them and they simply could not supply everyone's wants as far as 4QG was concerned.



Sambo, one of the idols of juvenile listeners to 4QG, reclines now that he has the laugh on Uncle Ben. Our picture shows the boldest "Minstrel from Tennessee" quite at home in his new car.

The Safety Valve

A department in which readers are invited to relieve their feelings by commendation or condemnation of broadcasting stations and their programmes. All letters must be addressed to "The Safety Valve," Wireless Weekly, 51 Castlereagh St., Sydney.



RELIEVES IN BOOST.

Dear Sir,—Did you tune in 2KY last Thursday evening and hear me sing Jesse Crawford's terrific ballad hit, "It Made You Happy When You Made Me Cry"? This beautiful number is direct from New York, and was featured last month at the opening of the world famous Paramount Theatre. My perfect radio voice and original treatment of this song will surprise YOU some! You will also hear me put over, "That's Why I Love You," and "Where'd You Get Those Eyes." No dry-as-dust stuff about these, but on the contrary real hot! Remember I am ready and willing to deliver the goods, when it suits the broadcasting companies.

Yours, etc.,
BO. BLAKE.

Darlinghurst.

[Bo. Blake writes regularly to the Studio Managers in this strain. He is only one of some hundreds of similar correspondents.]

Dear Sir,—I will admit the broadcasting of late is much better than it has ever been, but there is one feature which I and my friends always tune out, and that is the elocutionary items. Who wants them? Seldom are they instructive. Invariably the voices are muffled, either by speaking too loudly or getting too close to the mike, or getting too far away. The broadcasting companies should take a tip from one who is not only airing his own opinion, but the opinion of scores of others who have a similar dislike for items that come under the heading of Elocution.

Yours, etc.,
J. WILSON.

Willoughby.

WHO IS 3 FA?

Dear Sir,—In a recent issue "Stickybeak," South Coast, asks who 3 FA is. This call sign is allotted to Kerang Motors, Scoresby Street, Kerang, Victoria. He is frequently heard here, and in good form, transmitting records.

Yours, etc.,
W.T.F.

Goulburn

FARMERS APPRECIATE RADIO.

Dear Sir,—I would like to point out that your editorial last week makes it appear that the farmer does not appreciate radio. As a representative farmer I would like to refute this impression.

Many hundreds of farmers are already convinced of the fact that the listening-in set is no longer a novelty. There should be many thousands more, and it is probably only the natural hesitancy in taking to a new idea that is holding them back. It will not be long, however, before they will realise that the market reports, the news items, the musical numbers, the sporting news, and the lectures are just what they wanted. And all these can be obtained by investing in a wireless receiver, and paying a licence for what amounts to about one penny per day. I believe that this winter will see a radio boom in the country.

Yours, etc.,
FARMER KYRLE.

Coonamble.

HARD ON THE CITY MAN.

Dear Sir,—The figures published in last week's "Wireless Weekly," showing that less than 10 per cent. of the licences are held in the country, are astounding. The broadcasting companies must be aware of this, yet far more than 10 per cent. of the programmes are devoted to matter exclusively for the farmer. This is hardly fair to the city man.

Yours, etc.,
K. DEKKER.

Mosman.

[Both these letters refer to last week's editorial, in which it was stated that 89.9 per cent. of licence fees were held by listeners within 50 miles of the Sydney G.P.O. Approximately, 5,500 licences are held in the remainder of New South Wales, subtracting from this the several thousand licences held in Newcastle, Broken Hill, Albury, Wagga, etc., which cannot be classed as country licences, it is apparent that the farmer has not adopted radio to the extent many believe.]

LESS GRUMBLING.

Dear Sir,—The announcer at Waterfall recently asked for an opinion of broadcasting concert parties. They are doing very fine work—may it long continue. As an invalid I can assure you it is not only institutions they give pleasure to.

With regard to adverse opinions published about broadcasting programmes, a good cure would be to give the grumblers the position of Studio Manager for a week. At the end of that time they would probably be more in a frame of mind to value the programmes previously given to them, and less anxious to magnify supposed grievances.

It does not seem to occur to grumblers that, if they encourage fresh listeners, instead of fanning discontent among those already existing, the studios would have more chance of providing the "better programmes" which some seem to need.

Yours, etc.,
M.L.

Milton's Point.

ENCOURAGING.

Dear Sir,—I consider that WIRELESS WEEKLY is the most instructive and readable wireless paper published in Australia. I will leave suggestions for improvement to some abler pen than mine—all I have to say is keep on keeping on.

Yours, etc.,
T. EDWINS.

Goaford.

[The Editor welcomes letters of commendation and condemnation. Each is helpful. Indeed, some of the most popular features in "Wireless Weekly" have grown out of letters of suggestion from readers—and some of its faults have been eliminated by the same means. What kind of articles do you like best in this magazine, published for the broadcast listener? What kind of articles do you believe can be dispensed with most readily? Which of the departments do you like best—and the least? What additions can we make that will increase the value of the magazine to YOU?]

Coming Features in the Broadcasting Programmes

2FC HAS ARRANGED to take a full day's transmission from Goulburn on Sunday, January 23. The Morning and Evening services will be broadcast from St. Saviour's Cathedral; the preacher at both services will be Rev. Archdeacon Ward. This will be one of the last opportunities we shall have of hearing Archdeacon Ward, as he leaves shortly to take up office in England. The Evening service will be fully choral. Mr. Howard Usher is the organist. At 8.30, from the Broadway Theatre, Goulburn, a programme by the Goulburn Choral Society (conductor, Mr. Evan Owen) and the Australian Light Horse Band, will be given. Soloists will include Mr. Lyall Cooper (bass) and Mr. George Aldridge (tenor). One of the features of the evening will be excerpts from "The Messiah" by the Society, accompanied by the Band.

OTHER NEW artists proving popular with 2FC listeners are Miss Nora Hill, Irish soprano, who has a particularly pleasing voice over the air; Miss Daisy Richards, violinist; Miss Eileen Boyd, contralto; Miss Eleanor Stanton, contralto, the Whicchio Dance Trio, Miss Suzanne Ennis, contralto;

Miss Leslie Elliott, popular orator-ess from 2LO, Mr. Branton Goss and Miss Elise Long, whose clever sketches are much appreciated; Mr. Alfred Cunningham, English baritone; Mr. Cliff Arnold, novelty pianist; Mr. Norman Francis (baritone); Mr. Walter Whyte (tenor), and Miss Belle Pollard. Mr. Whyte has been out of the limelight for some years, owing to a severe nervous breakdown, but despite his illness, his voice still holds a pleasing quality, which the microphone enhances.



"Uncle Jack" Prentice, late of 2BL who is now Chief Announcer to the Radio Broadcasting Company of New Zealand, is evidently finding time for some touring. The picture above shows him on the edge of the crater of an extinct volcano, Rongitoto, situated on an island in Auckland Harbor. The rumour that the smoke of his cigar alarmed the inhabitants of that city is without foundation.

LOVERS OF that delightful form of entertainment, the unaccompanied vocal quartette, will welcome the announcement that the Premier Four are included in the programme at 2LO. Their repertoire is extensive and includes Old English melodies, well known hunting songs, and some quaint word riddles attractively set to music, all of which will be thoroughly enjoyed by listeners.



A charming 2FC soprano, Miss Maude Deane, will be heard on January 21 and 22.

CERTAIN SONGS seem to become linked in the memory with certain singers, so much so that the one naturally suggests the other. An association of this kind is brought to mind by the well-known song, "The Silver Ring," which is to be broadcast from 1QG on February 2. Mention of this song brings memories of Madame Clara Butt, the great contralto, who made it famous. Unfortunately, Madame Clara Butt cannot broadcast from 1QG, but its rendition will be entrusted to Mrs. Chas. Willey.

THOSE WHO have enjoyed the artistic series of "lectures" arranged by Mrs. M. Callaway Mahood, will be glad to know that she is preparing a special series of talks dealing with painting and enamelling of furniture and china, during which she will disclose many simple secrets whereby the most drab furniture, the despair of the housewife, can be made bright and attractive at that delightful of all costs, next to nothing. Following her instructive talk on the beauty spots of Melbourne, we have received dozens of letters thanking Mrs. Mahood for bringing these too little known "gems" into prominence.



Miss Wacatah of 1QG in real life is Miss McLennan. She broadcasts monologues, songs, and bedtime stories from the Brisbane station.

About Broadcasting Generally

Our 3LO correspondent discusses a variety of subjects

I have been greatly struck during the last couple of weeks by the number of people who have spoken to me about the broadcasting of cricket descriptions by 3LO.

I do not bet, except on an occasional certainty, but I would have put up a small wager that the description of a cricket match would have proved as uninteresting as that of an engaging competition on a Sunday. I would have lost my money. I would say that all over Victoria, so keen is the interest excited in a Sheffield Shield match, that people listened avidly to cricket talks.

It was a wise move to follow up this interest by putting Woodfull, Hendry, Ponsford and Ryder "on the air." This taking opportunity by the forelock, and using the passing interest to hang a programme on shows that there is someone pretty wide awake in the 3LO Studio.

HUMOR IN THE AIR.

The more I listen to humorists on the radio, the sadder I become. It is an extremely difficult thing to make the voice carry the subtle nuances that go to make up a piece of humor. A funny story can be broadcast, but the painfully forced humor that most "funny men" push through the atmosphere may be screaming in the studio, but it falls dead a yard below the microphone.

There is one man, however, whose humor comes through as fresh, as unforced, as when it leaves him. He is rapidly gaining an "air" reputation, which is something different from a "bubble" one. He is Rupert Hazell. And yet there are differing opinions about Hazell.

Said a man to me the other day, when his name came on the carpet—"Gives me the pip when I hear him say every night—"Well, everybody happy! That's right." Not two hours afterwards, I was drinking a dish of tea with a lady, and into the quiet room came that very cheery phrase.



Alice Kellaway and Estelle Ross.

My hostess smiled delightedly. "I love to hear him say that. It has become a trademark with Rupert Hazell. As soon as I hear him, I feel cheered up." And, sure enough, the consequences of Hazell caused a lightening of the atmosphere the necessity of entertaining me had filled with gloom.

I have, on occasion, been present in 3LO's studio while professional comedians have been making glastly merriment. Before the advent of a real audience in the studio, it was a terrible experience to see the posturings, the grimaces, the gestures, so effective on a stage being used to cause laughter in an immense audience to whom they were invisible. The silence always seemed to impress the comedian with a sort of terror, and the smile on his face became mechanical, his eyes glassy, and moment by moment any fun he may have had in him oozed out at the ends of his fingers. That is the reason why the inviting of an audience to witness the performers has been so useful. It has induced spontaneity, life. The appreciation without which many artists find themselves unable to function is there, on tap, and the effect is seen in the increased "punch" of the entertainment.

Still I am convinced that, more than anything else on the air, humor needs a special radio technique, a technique that must get everything into the voice and the phrase. The unexpected has a charm, and the day of old, well-known hoary jests on the radio has gone.

3LO AND 2LO.

I was interested to read the opinions of Sir William Noble, of the British Broadcasting Company, on the programmes put before the Australian public. Critics here are constantly charging it against the big studios that they do not engage the big singers for radio. Sir William accounts that as a virtue. He is against the "star" system, which, both in film and stage work, has been a rod for the back of the entrepreneur, and a blot on the artistic presentation of a play. Sir William regards it as being bad for radio work, too, tending to make a close corporation of the air for the benefit of a few privileged artists. Far preferable, he says, to work up programmes whose mean level will be high, rather than those with a few high spots.

As a counterblast to those critics who see in radio programmes a pandering to the tastes of the vulgar, it is refreshing to hear from Sir William an opinion that wireless broadcasting has raised the public taste immeasurably in the short time it has been in use.

That is undoubtedly what has happened in Victoria. The programmes of 3LO, for example, invariably contain items of classical or semi-classical nature, brought thus before subscribers, who in many cases would never have had the opportunity to hear them. Insensibly by this means, and through hearing cultured speakers talk on matters of importance, the minds of thousands have been taught to look higher than the things which once satisfied them. I have

heard boys whistling "Che gelida manina" from "La Bohème" who, before the advent of wireless, had never been brought into aural contact with anything musically higher than "Yes, sir, that's my baby."

In a word, Sir William, with exact knowledge of conditions abroad, supports the contention I have always made that the programmes of a first-class station like 3LO can challenge any in the world. This is hard hearing for those many curious people in this country who find a peculiar pleasure in believing that nothing done here can possibly be as good as the same thing produced elsewhere.

CHARITY IN THE AIR.

There have been many appeals lately to listeners of their charity to give to this and that movement. Their generosity has seldom been appealed to in vain. The most recent of these requests for help has been that of the Herald, Melbourne, to provide wireless equipment for all the metropolitan hospitals. 3LO has considerably aided this object.

An interesting sidelight on charity appeals through the ether was afforded by a letter received from a subscriber by 3LO the other day. The writer stated that he had to pay only 27/6 for a very great pleasure all the year round, and as he thought the programmes cheap at a fiver, he maintained that he was in duty bound to pay the difference to 3LO to be sent to charity. An unusual point of view.

KELLAWAY AND ROSE.

A delightful Duo has recently made its bow before the microphone, in the persons of Alec Kellaway, who is professionally styled the "Singing Rover," and Miss Estelle Rose, who is that all round type of versatile artist known as a character impersonator. The programme they intend to present from 3LO covers a wide ground, consisting as it does of harmonious ballads, duets, and cleverly arranged humorous interludes, which have a distinctive original "touch" about them. Both these artists have enjoyed a successful professional career, and have made hosts of friends amongst their many audiences, and it is safe to predict that listeners will enjoy their contributions to the programmes.

If you have any favorite song or story, Miss Rose and Mr. Kellaway will broadcast it for you.

FRESH ARRANGEMENTS have been completed by 2FC, whereby orchestras and artists of the Union Theatres circuit, including the Lyceum, Lyric, Crystal Palace and Haymarket Theatres, will be broadcast regularly. The musical directors of these Theatres will work in co-operation with 2FC.

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1 "A" Battery Switch, "Tiffany"	0	1	9	1 Honeycomb Choke Coil (200 Turns)	0	2	10
1 Centralab Modulator	0	14	0	1 Terminal Board, engraved with 7 terminals	0	2	6
3 H. & H. Porcelain Valve Sockets, 4/-	0	12	0	1 Terminal Board, with two terminals	8	1	0
3 Renrade Filament Ballasts, 3/6 each	0	10	6	2 Split Secondary Screened Coils, 25/-	2	10	0
2 Renrade Neutralising Condensers, 3/-	0	6	0	1 Reinartz Screened Coil	1	6	0
2 00025 Mica Grid Condensers, with Clips, 1/9	0	3	6				
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Glass Encased Crystal Detectors. Barrel type	0	2	6	Headsets. The famous Canonball. Per pair	0	12	6
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The "Mewflex"

The latest product of Elstree Laboratories, England, the "Mewflex" is a revelation in reflex receivers. The circuit embodies an entirely new principle eliminating howls and whistles, while the set itself does not radiate.



SINCE the inception of broadcasting, there has existed a friendly rivalry between America and Britain in the design of receivers. The early English receivers were certainly wonderful to look upon. It seemed that the more controls the receiver possessed the better the owner was pleased. Honey-comb coils, valves, rheostats, variable grid leaks and many other "gadgets" all protruded above the panel, which was invariably horizontal. For satisfactory reception it seemed as if the owner of the average English set had to be a qualified engineer, and for quite a long period of time this type of set was very popular.

In the meantime, our American friends were concentrating their attention on the minimum number of controls. American conditions were ahead of British conditions, and the Americans gained a lead in receiver design. The Neutrodyne and the Browning-Drake followed by the Hamerlund-Roberts, all American receivers of great note, left the Britisher with nothing to equal them, both from the point of view of appearance and results.

To-day there is a vast difference. We might go so far as to say that the British receiver to-day is equally as good in appearance and far superior to the average American receiver in reception. This state of affairs has been brought about by careful research to meet the English conditions. The Reinartz form of reaction being far superior to other forms, is almost universally used.

Direct pick-up, the enemy of selectivity, in the British designed set, is now almost entirely eliminated. Shielded or screened coils have been found to be satisfactory in all directions in radio receivers to-day. Direct pick-up is thus overcome, and the result is an extremely satisfactory receiver both in volume, clarity of tone, and selectivity.

Interaction, another great drawback to clarity of tone and selectivity, is also overcome by means of screened coils. The well-known American Neutrodyne overcomes interaction disabilities by the spacing of the coils well away from each other and angling them on a distinct angle so that the magnetic field, the cause of interaction, is dispersed with. This arrangement is perfectly satisfactory, but does not overcome direct pick-up, so that many American constructors shield their sets entirely to greater advantage.

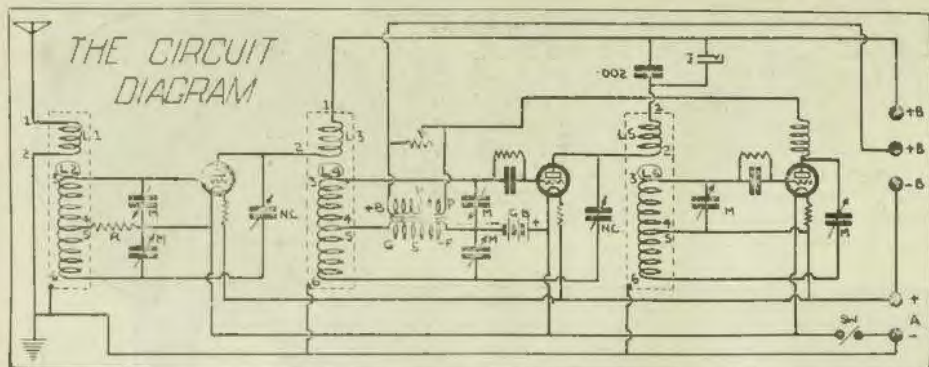
Mr. J. H. Reynolds, the Editor of that well-known publication "Modern Wireless," is responsible to a very marked extent for the introduction of screened coils. For quite a period of time he, in conjunction with his staff at the Elstree Laboratories in England, indulged in much research work with screened coils. So successful have they been, that to-day, on the English market, screened coils are available. Different types are used, notably the Split Primary type, the Split Secondary type and the Reinartz type, and each has a different use.

For the purpose of the "Mewflex" two split secondary coils are used, and one Reinartz coil. The latter coil is used to introduce reaction into the circuit, and is particularly effective. The coils are wound on formers one of which fits inside the other, the inside former containing the primary winding. The secondary winding, or windings, is wound on an outside former slightly larger than the primary former, and both coils are totally enclosed in a copper screen cylindrical in appearance. This screen is earthed.

The Circuit.

The circuit employed in this excellent receiver may seem strange to the average constructor. But on analysing it, we find that it has two stages of radio, detector and one stage of audio frequency amplification. Hence it follows that although only three valves are used and the output of four is gained that the Mewflex is a reflex receiver, but unlike most other reflexes there is no crystal in the circuit in any way.

The middle valve acts in the capacity of the radio frequency valve as well as an audio frequency valve, and to prevent blasting from the local stations so great is the volume, a grid leak and condenser has been inserted in the grid circuit as a stabilising medium. The third valve is actually the detector, as may be seen by the reaction condenser running from the plate to the bottom of the secondary coil. From the plate of this valve the energy is fed to the primary of the inter-valve transformer, which



step-up the signal strength at audio frequency to be delivered from the second valve and into the loud speaker.

This receiver is perfectly stable in every way, and as a further assistance in this direction neutralizing condensers are employed on the first and second valves. Grid bias is provided for, and is connected in the orthodox manner, and as a further luxury a tone control is inserted in the output in order that the strength of reception may be varied without detuning.

To those constructors who wish to make an exact copy of the receiver photographed a list of components required, with the different brands, is given. While the constructor is not actually bound to purchase these parts exactly as specified, at the same time should be prefer otherwise be certain that the components are of a very high quality. Adhere strictly to the values given, and the results from this excellent receiver will be very satisfying. It may be interesting to mention that in Great Britain the "Mewflex" received 30 different stations on the loud speaker, including all British stations as well as French, German and Italian stations. These results are worthy of note.

Construction.

The first thing that claims the attention of the constructor are the

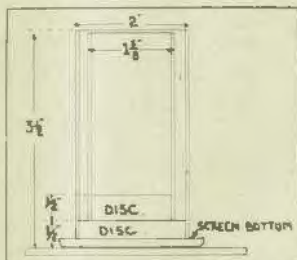
screened coils. We understand that there are some ready wound screened coils available, but for the benefit of those who wish to make these coils for themselves we are giving the particulars.

Required for the construction of these coils are six formers, 3 1/2 in. long by two inches in diameter, and three formers 3 inches long by one and five-eighths inches in diameter. In addition to this, obtain three wooden discs half an inch in diameter and just the size to fit snugly inside one end of the two-inch diameter former, and also three wooden discs of the same thickness but of sufficient diameter to fit snugly inside the one and five-eighths inch diameter former. Three copper screens mounted on a diletto base with six terminals on each base and four ounces of No. 30 D.S.C. wire completes the requirements.

Two of the coils should be wound exactly similar to the method adopted for the "Elatroflex Two" described in last week's "Wireless Weekly," but for the benefit of those who may have missed this note we are repeating it.

The secondary winding is wound on the two-inch former and comprises 130 turns of No. 30 D.S.C. wire, wound in two sections of 65 turns each. Three quarters of an inch from one end of the former pierce two holes through which thread the wire, making it

secure, and then wind 65 turns, each turn close to its neighbor, and finish off securely. At a distance of a quarter of an inch away from the end of this winding, start to wind the second portion of the secondary, which comprises 65 turns of the same gauge wire wound in the same direction, finishing off securely as before. Two



The method of assembling the screen *s* coils.

of the two-inch formers should be completed with this winding, but the third should have the top portion of 65 turns and the bottom portion of 25 turns, this last portion acting as the reaction.

The primaries in each of the three instances consist of twenty turns of No. 30 D.S.C. wire, wound in such a manner that when mounted inside the secondary tubing the windings come right opposite the quarter inch space left between the two windings of the secondary coils. This operation is very simple indeed, and only requires a little patience, and the job will soon be done.

Now mount each smaller disc on the larger discs so that there is an even distance left around the edge—short brads will serve this purpose admirably. Cut two shallow grooves on each of the smaller discs,



A back of panel view showing the middle coil without the copper screen.

before mounting, and six similar grooves around the edge of the larger discs. These grooves are cut down the edges and are for the purpose of allowing the connections of the coils to come right through to the base. The connections are shown in (a) of one of the diagrams, this representing the connections by numbers. In the Reinartz coil, of course, the turns between five and six are marked to 25 only, whereas in the other two instances 65 turns occupy this space. In the same diagram (b) represents the wiring diagram of the Reinartz portion of these coils.

The completed coils should now be inserted in this screen, which should consist of copper, approximately three inches in diameter by four and a quarter inches long. This screen is mounted on a circular piece of Dilecto around the edge of which insulation should be made for the six terminals. The connections from the ends of the coils should be taken through the base of the screen, in which suitable holes should be provided, and in order to prevent short circuiting the wire should be enclosed in a small piece of varnished cambric spaghetti. The screen is made in two portions, the base already described and the top portion being similar in every respect to the usual lam tin and it should fit snugly into the base, to ensure a good electrical contact. In the wiring each screen is connected to the earth wire. From these instructions it is hoped that this coil building matter is understood, and we may mention now that we will not repeat this each time screened coils are used but we will refer to this issue for the particulars.



The plan view giving a clear indication of the lay-out of all the parts.

The local manufacturers will be standardising their windings along the lines laid down in this article, so for those who desire to purchase the completed article.

Panel Layout.

The panel layout adopted is very simple indeed. On the panel there are the variable condensers, battery switch, and the zone control. The condensers are spaced out more or less evenly, but the full instructions for spacing, etc., will be found on the panel diagram accompanying this article. The gramme condensers come to you equipped with a splendid template, which can be used to determine the positions of the fixing holes for the condensers. A four-inch dial is also to be found in the model.

Mark off and drill the panel, then

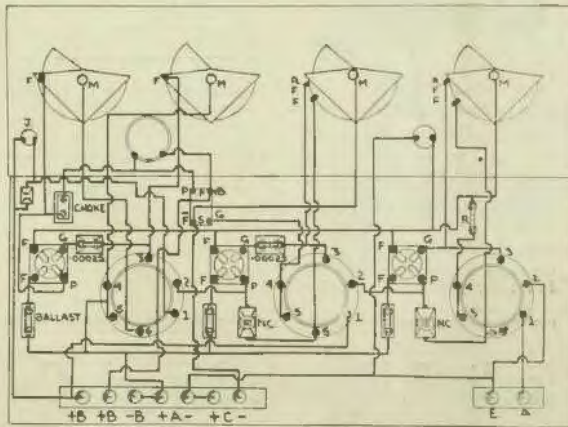
proceed to mount the condensers, volume control and battery switch.

Baseboard.

The baseboard used this week is slightly larger than usual. The depth is twelve inches, and all of this depth is required to accommodate the various parts which are situated on the baseboard. Prepare the baseboard by sandpapering and treating it to one or two coats of shellac or French polish as desired. When thoroughly dry, place your baseboard components in their respective positions, as shown in the plan view of the receiver. When laying out these parts consult the back of panel wiring diagram to locate the directions in which the various parts face, as this will save much time and trouble in the wiring later on. The fixed panel plug should be mounted on a small piece of bakelite and then screwed to the baseboard in its respective position. Searcely discernible, but underneath the first double condenser is fixed the 100,000 ohm. resistance and clips. The filament ballasts are conveniently located immediately behind the valve sockets, and don't forget when obtaining these ballasts are governed according to the amperage law of the valve on the market to-day. They are certainly a wonderful innovation.

Wiring.

When all the components have been mounted in their respective positions, the wiring may be commenced. For this purpose ferris wire, celanite or busbar may be used, and the constructor can please himself as to whether he runs straight point to point wiring or the neater looking variety of right-angled wiring. The wiring diagram herewith is an excellent detail, and when followed out in conjunction with the circuit diagrams, no difficulty whatever should be experienced. Fashion each wire as you proceed, and with a blue pencil mark off in wiring diagram as each wire is entered into the set.



Wire up from this diagram and note the directions in which the components face.

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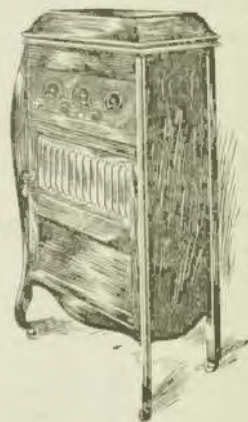
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RESCO RADIO

The five valve Neutrodyne is the Radio Set supreme. Its distance getting propensities are known the world over. Our Neutrodyne is no exception to the rule, as each and every one is capable of bringing in the Inter-State stations at loud speaker strength. It is very pleasant to listen to 3LO, Melbourne, or 4QG, Brisbane, or 5CI, Adelaide. Should one programme not appeal to you, switch over to another whether it be the local station or the Inter-State station. This is the ideal Radio Set; this is just what the Resco Neutrodyne will do for you. It is simplicity itself to change from one station to the other; a child can do it.

The Resco Neutrodyne presents a very neat appearance. All are equipped with vernier dials. The set is self contained; all batteries are contained in the cabinet.



THERE ARE THREE MODELS TO
CHOOSE FROM:

Table Model. Price, £18/10/-.

Floor Model (b). Price, £27/10/-,
polished maple or oak.

Floor Model (c). Price, £29/10/-,
polished rosewood.

All models are handsome in appearance and add to the furnishing of the home.

OUR EASY TERMS ARE THE
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The Resco Neutrodyne is equipped with Exide Accumulator, large capacity "B" Batteries for long life, Philips' Valves, Headphones, Aerial gear etc. There is no experiment about the Resco Neutrodyne. Our sales during the last three months have been enormous and complete satisfaction is expressed by all users.

Read over these prices again, then call in and see us. Hear this excellent receiver for yourself. You will be sure to take one home. Prove for yourself the wonderful value.

Radio & Electrical Supply Co.

40 PITT STREET — (near Quay) — SYDNEY

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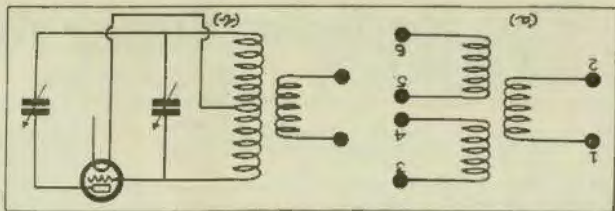
Soldering is called for in several instances, and after all this is a very simple matter. If the constructor experiences any difficulty in using the resin cored solder the investment of two shillings will provide him with a tin of Fluxite, which when used in conjunction with soft soldering, simplifies the soldering greatly. After soldering, wipe each joint with a piece of damp cloth to remove any excess flux which may be adhering to the wiring and the parts.

The photographs were taken prior to the connecting of the terminal board, and quite a considerable quantity of the wiring can be seen. The neutralising condensers need not be screwed to the baseboard, but maintained in position by the connecting wires.

Testing.

Being satisfied that all the wiring is correct by checking carefully, test the receiver. Insert the valves in their sockets. Connect the aerial and earth to their respective terminals, and the A, B and C batteries to their terminals. Ninety volts will be found suitable for the first and second valves, the detector valve being catered for between 22½ and 45 volts. For purposes of testing out, apply 22½ volts to the plate of the detector valve. A C. battery of 4½ to 9 volts according to the valve used, will be found ample. Plug-in the loud speaker, press the battery switch to the ON position, and note that the valves are in perfect order. Plug a 200 turn honeycomb coil into the plug as a choke.

Gradually tune both of the double condensers, keeping them at the same reading all the way around the dials. The local station will soon be located, and by bringing condenser C3 to the same reading, the volume will be increased. Condenser C4, controlling the reaction, may give rise to extreme oscillation, which, of course, is to be avoided. Move the setting of this condenser until oscillation is not present. Find the next station, keeping in mind, of course, that careful tuning is required on account of the sharpness of tuning. The first three condensers should all read the same on the dial settings as should the last



(a) Explains the connections of the coils.
(b) The connections of the reaction portion.

COMPONENTS REQUIRED.

- 1 Panel, 24in. x 8in. x 2/16in.
- 2 Igranic .0005 Dual Condensers.
- 2 Igranic .0005 Single Variable Condensers.
- 1 Saturn Battery Switch.
- 3 Gridiron Coil Screens.
- 2 Gridiron Split Secondary Transformers.
- 1 Gridiron Remarks Coil.
- 1 Empire Audio Frequency Transformer.
- 2 Revade Neutralizing Condensers.
- 3 H. & H. Valve Sockets.
- 1 Volume Control. (Centralab or Macfarlan).
- 1 H. & H. 100,000 ohm. Resistor and Clips.
- 1 Empire Fixed Panel Plug.
- 1 Honeycomb Coil as Choke.
- 2 .0025 Grid Condensers and Clips.
- 2-3 wdg. Leads.
- 4 Revade Filament Ballasts.
- 1 .002 Fixed Condenser.
- 1 Terminal Strip, with Seven terminals.
- 1 Terminal Strip, with Two terminals.
- 15 Bushara.
- 1 Baseboard, 24in. x 12in. x 1/8in.

or reaction condenser when the set is properly neutralized.

Neutralising.

It may be found that the receiver is very touchy to handle on account of its oscillation, but this can be

overcome by neutralising. The first valve should be paid attention to. Remove the ballast governing the first valve from its clips, after having tuned in a station. Although the valve will not light up signals will nevertheless be heard much softer than before. Adjust the neutralising condenser until oscillation ceases, when the first condenser is adjusted. Replace the filament ballast and it will be found that the receiver is much more stable than before, but if still slightly difficult, adjust the second neutralising condenser governing the second valve, but this time do not remove the filament ballast from its clips. With the Revade neutralising condensers, a long sharpened stick is ideal for altering the rotating vane of this condenser.

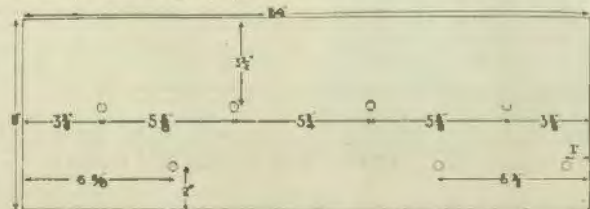
The whistling should now entirely have disappeared, and the receiver should be very sweet and clear to listen to. The volume will be found most satisfactory, too loud altogether on the local stations. The volume control can therefore be used to advantage, but the distance station will be found most satisfactory indeed. Static, the arch-enemy of long distance signals in summer time, may prove a nuisance as it did with us during the short period we had of testing the "Mewflex."

Test Report.

At Marrickville the "Mewflex" was tested, and once properly balanced 8LO, Melbourne, and 4QG, Brisbane, were heard on the speaker, mixed, of course, with a fair amount of static. The volume was most satisfactory, there being no sign of any interference from the local stations in any way. Later in the evening 5CL, Adelaide, came in with very good strength, but a certain amount of careful handling was necessary in order to locate this station. Once found, however, the volume was splendid indeed, considering that only three valves were used in this circuit. The aerial employed is a standard 75 foot aerial, although an indoor aerial around the picture rail produced excellent results.

Valves.

The valves used in this circuit were UX.201A valves, and Concor Valve



Panel drilling diagram. Compare with the front view.

The Radiola Super Model C 26

A Super-heterodyne receiver of six valves suitable for dry cells.

THE illustration on this page is that of a Radiola Super, Model C26, which was tested at Marckville this week. A most interesting receiver it proved to be—and you will be pleased to know of our experience.

Firstly, the packing of the set is really splendid. Evidently the manufacturers have had a *to-te-a-tete* conversation with the Railway Commissioners. We feel certain that were this receiver dropped from the Railway Clock it would land on the ground undamaged.

The Radiola Super is a six valve receiver embodying technical refinements which ensure super-selectivity, super-sensitivity, faultless reproduction and a simplicity of operation.

For ordinary inter-State reception no outdoor aerial is required, but over greater distances or where local conditions are not favorable, it may be found an advantage to use a short external aerial and to this end provision is made.

On opening the carton the Radiola Super revealed itself. First impressions are always best, it is said, and it was proved so in this instance. The design of the cabinet is unique, as may be gathered from the illustration. The high mirror finish of the French Polish is most impressive, and the Radiola Super from the furniture point of view, is an acquisition to any home.

In an envelope a copiously illustrated book of instructions is found, and is complete in every detail from information on how to insert valves to the operation of the set. It is evident that the makers have built this receiver to be installed in every home; even in the homes of people who have never seen a radio receiver in their lives before. The instructions are complete.

Looking at the front of the Radiola Super there is found two main tuning controls, whose effect is registered on a logged scale. Underneath these controls are three knobs, one for battery control, one for volume control, and an intensifier. Again, there is to the right a battery switch, which, with one turn, lights up all six valves and also indicates that they are alight on a small red indicating lamp—a splendid feature.

Two jacks are provided, one for soft and one for louder volume, and two small voltmeter jacks are found to test the conditions of the battery without disturbing it in any way. In the back of the receiver is ample room for housing all batteries, which makes the set self contained and eliminates all dragging wires.

In the lid there is a jack into which is plugged the frame or loop aerial, which accompanies the Super.

Following out instructions, the batteries were connected, and the loop aerial inserted in its proper place. On turning on the valves—six UX199 valves, which were placed in the sockets—and rotating the two selector or tuning controls, we found that the receiver had already been calibrated for all the Australian A. Class Stations.

Therefore, it was a very simple matter indeed to bring in 2BL, 2FC, 3LO, 4QG, and 5CL, all at remarkably good loud speaker strength. Mind you, these results were obtained on a loop aerial, no outdoor aerial being at all necessary. It seemed unnecessary to think that the Adelaide Town Hall clock chimes should be

heard in Sydney, the radio frequency energy being picked up on a small frame aerial on the top of a receiver situated within the four walls of a room. But there it is.

The loop had to be pointed edge on to the direction of the station, whose reception was desired. A touch off this direction lowered the signal strength, which is really an advantage in tuning. The free rotatable action of the loop is notable.

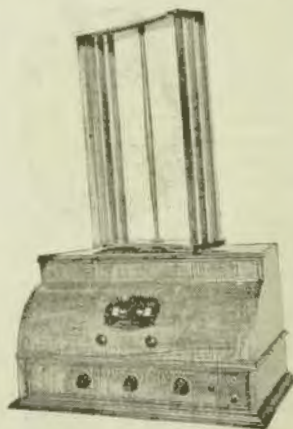
When connected to a length of wire around the picture rail in the room, the same remarkable volume was obtained. In fact, for household use, the 1st stage of audio is all that is necessary, and at no time did any howls or squeals spoil reception. Music, sweet music, always worth listening to, results from the Radiola Super. The volume control is a most useful refinement. Our model from the Amalgamated Wireless (Australia), Ltd., 97 Clarence St., Sydney.

THE MEWFLEX

(Continued from previous page)

of the Point One variety. These latter valves were used in conjunction with Amplion Carboneels as an A battery, and with a Red Top valve in the first stage a Scentor, two in the middle stage, with a standard valve as detector, the results were very pleasing indeed, and were comparable to the 201A valves. If anything, the Cossor valves gave a slight increase in selectivity. Not having any other makes of valves on hand while the "Mewflex" was being tested we cannot advise as to results with other than these two valves, but the constructor can soon determine for himself the suitability of different valves.

The "Mewflex" is an excellent receiver, in fact, it is perhaps the best three valve receiver that we have so far tried. The cost of construction may be a little more than is usual for a three valve set, but the results are well worth paying for. The constructor who sets about building this receiver will be amply repaid for his efforts, as the owner of a Mewflex will be a proud man indeed. Triumph Elstree.



All Interstate stations can be received on a frame aerial.

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PILOT ISOGRAD MOULDED CONDENSERS.

	s. d.
.001	3 0
.002	3 0
.006	3 9
.0005	2 9
.00025	2 9
.00025 with clips	2 0



This fixed Condenser is unique, inasmuch as it has screw holes for mounting by wood screws apart from the usual holes for terminals and connections.

Method of construction adopted completely protects the Condenser from moisture and the pressure of the securing screws does not affect the capacity of the Condenser.

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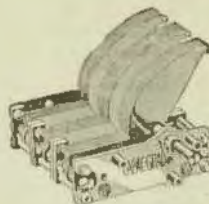
No. 5113, 13 plate, £0 11 3
No. 5117, 17 plate, 0 12 0
No. 5123, 23 plate, 0 13 6

Straight Line Frequency, Aluminium Plate.

No. 7113, 13 plate, £0 12 0
No. 7117, 17 plate, 0 13 6
No. 7123, 23 plate, 0 14 3

STRAIGHT LINE FREQUENCY BRASS PLATE.

No. 8113, 13 plate, £0 14 0
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No. 8123, 23 plate, 0 17 3
No. 8117-2, 17 plate, double Condenser, 1 14 6
No. 8117-3, 17 plate, triple Condenser, 2 1 3



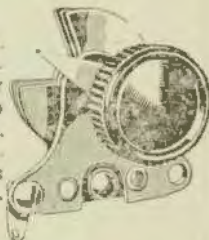
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Pilot Single Circuit Jack, No. 1161 ..	£0 2 3
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The Pilot Iso-grad vernier dial — calibrated both clockwise and anti-clockwise on the one dial — moulded in pure bakelite — with friction control — absolutely no backlash, and only



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N.P., Mounted on Elomite	2/-	1/8		Trimm's Professional	35/-	28/-	
Burndept Glass Encl. Micrometer Adjustment	5/6	4/5		Wandertone 4000 Ohms.	20/-	16/-	
Wandertone Glass Encl.	3/9	2/10		Nutmeg 5000 Ohms.	20/-	16/-	

HOLDERS.		Regular Price.	Sale Price.
HOLDERS. For American Valves.			
Pinnacle	1/6	1/3.	
Aerolis	2/3	1/10	
3 Gang Bakelite	3/6	2/10	

KEYS.		Regular Price.	Sale Price.
Morse Keys	12/0 and 10/-		

LOUD SPEAKERS.		Regular Price.	Sale Price.
Towers' Spitfire	32/6	26/-	
Tower Cone	60/-	48/-	
Manhattan Junior	32/6	26/-	
Manhattan Senior	40/-	32/6	

VALVES. American Base Only.		Regular Price.	Sale Price.
Radotron UX20A	12/-	9/8	
A.P. Twin Filament, 6 Volt 25 Amps.	3/6	2/16	

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Ediswan, A.R.	2/6	2/10	
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Philip's E Amplifier	5/-	4/-	
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With Bakelite Ends.
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CONDENSERS—Variable.		Regular Price.	Sale Price.
Menomine with Vernier and Dial—001	14/6	11/8	
Menomine W/o Dial—001 and 00025	12/-	9/8	
Ormonde, Plain W/o Dial, .00002 and .00001	3/6	2/10	
Red Seal Low Loss, with Vernier—.0005	15/9	12/7	
Freshman Mercury, with Dial	6/-	4/10	
Framingham Self-balancing—.001 W/Vernier and Dial	18/-	8/-	

CABINETS. Bargains in Maple Cabinets; call or write for sizes and prices.
KITS. Pinnacle Space Wound Browning Drake.
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RHEOSTATS.		Regular Price.	Sale Price.
5 Ohm—Plain	2/-	1/8	
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30 Ohm—Plain	2/3	1/10	
Combined Rheostat and Potentiometer—5 Ohms. and 400 Ohms.	6/-	4/8	
Or			
30 Ohms. and 400 Ohms.	6/-	4/8	

All Goods carry our usual guarantee.

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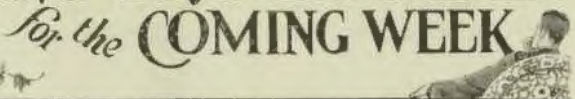
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Mail Order Department: 60 Goulburn Street.

BROADCASTING PROGRAMS FOR THE COMING WEEK



Friday, January 21 2FC, SYDNEY Farmer's Broadcasting Service.

Wave Length, 442 Metres.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
- 7.08 a.m.—Music from the Studio.
- 7.15 p.m.—Official weather forecast, rainfall, temperature, astronomical observations, shipping intelligence, commercial news, mail service.
- 7.25 p.m.—Investment market, mining share market, metal quotations.
- 7.32 p.m.—Wool, silk, breadstuffs markets, literature markets, produce markets.
- 7.45 p.m.—"Sydney Morning Herald" news review.
- 8 a.m.—"Big Ben"; "Chorus" Talk by Mr. J. K. Powell.

MORNING SESSION.

- 9.15 a.m.—"The Chimes of 2FC."
- 9.30 a.m.—Music from the Studio.
- 9.40 a.m.—Music from the Studio.
- 9.48 a.m.—
- 10 a.m.—"Big Ben" and announcements.
- 10.05 a.m.—Late "Sydney Morning Herald" news service.
- 10.18 a.m.—Music from the Studio.
- 10.30 a.m.—
- 10.45 a.m.—A morning reading.
- 11 a.m.—"Big Ben"; Australian Press Association and Reuters's Cables.
- 11.10 a.m.—Music from the Studio.
- 11.18 a.m.—A Talk on Flame Cooking and its Recipes, by Miss Ruth Funn.
- 11.30 a.m.—
- 11.38 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben" and announcements.
- 12.5 p.m.—Stock Exchange—First Call.
- 12.10 p.m.—Music from the Studio.
- 12.20 p.m.—
- 12.30 p.m.—Music from the Studio.
- 12.40 p.m.—From Farmer's Oak Hall—The Oak Hall Trio.
- 12.55 p.m.—
- 1 p.m.—"Big Ben" and weather intelligence.
- 1.05 p.m.—"Evening News" midday news service; "Producers" Distributing Report.
- 1.20 p.m.—The Oak Hall Trio.
- 1.28 p.m.—Stock Exchange—Second Call.
- 1.30 p.m.—
- 1.40 p.m.—
- 1.45 p.m.—Music from the Studio.
- 1.60 p.m.—The Oak Hall Trio.
- 1.65 p.m.—
- 2 p.m.—"Big Ben"; close down.

AFTERNOON SESSION.

- 2.50 p.m.—"The Chimes of 2FC."
- 3 p.m.—Studio Music.
- 3.30 p.m.—From Farmer's Oak Hall—The Oak Hall Instrumental Trio.
- 3.35 p.m.—Studio Music.
- 3.40 p.m.—From Farmer's Tea Rooms—Miss Persis Butler, soprano.
- 3.45 p.m.—The Oak Hall Instrumental Trio.
- 3.50 p.m.—Studio Music.
- 4 p.m.—From Farmer's Tea Rooms—Miss Dorothy Benbow, contralto.
- 4.10 p.m.—The Oak Hall Trio.
- 4.20 p.m.—Studio Music.
- 4.30 p.m.—From Farmer's Tea Rooms—Miss Persis Butler, soprano.

- 4.25 p.m.—The Oak Hall Trio.
- 4.30 p.m.—Studio Music.
- 4.40 p.m.—From Farmer's Tea Rooms—Miss Dorothy Benbow, contralto.
- 4.45 p.m.—Stock Exchange—Third Call.
- 4.55 p.m.—Close down.
- EARLY EVENING SESSION.
- 6.45 p.m.—"The Chimes of 2FC."
- 6.50 p.m.—"The 'Hello Man'" Talks to the Children.
- 6.55 p.m.—A Serial Story for the Older ones.
- 6.58 p.m.—Instrumental and Vocal Items from Farmer's Oak Hall Dining Room.
- 7 p.m.—A Talk by 2FC Racing Commissioner. Late sporting information.
- 7.10 p.m.—"Evening News" late news service. Weather information.
- 7.20 p.m.—Daily's Market. Repeat wool, wheat, stock, fruit and vegetable reports.

NIGHT SESSION.

- 7.45 p.m.—BROADCAST FROM THE GRAND OPERA HOUSE (By permission of J. C. Williamson, Ltd.) Act One of the Pantomime "Auld.".
- 9 p.m.—FROM THE STUDIO: The Sadler Instrumental Trio, consisting of Mr. Lionel Lawson, violinist, Mr. Gladstone Hall, cellist, and Mr. Lindley Evans, pianist. (Two) "Tularemme" (Brahms).
- 9.25 p.m.—Mr. Alfred Cunningham, baritone. (a) "Believe me if all those wandering young cherehs" (Old Irish). (b) "The Low-backed Car" (Old Irish).
- 9.35 p.m.—Mr. Lindley Evans, pianist.
- 9.50 p.m.—Dorothy Benbow, contralto.
- 9.58 p.m.—A Talk by Miss Veronic Le Laine on the Gilbert & Sullivan Operas.
- 10.04 p.m.—Mr. Lionel Lawson, violin soloist.
- 10.4 p.m.—Miss Mavis Deakman, soprano.
- 10.12 p.m.—Mr. Alfred Cunningham, baritone. (a) "Even Bravest Heart" (Gottard). (b) "When I Awake" (Wright).
- 10.20 p.m.—Mr. Gladstone Hall, cellist soloist.
- 10.30 p.m.—Miss Dorothy Benbow, contralto.
- 10.35 p.m.—Miss Mavis Deakman, soprano.
- 10.40 p.m.—The Sadler Instrumental Trio—"Reverie" (Schumann).
- 10.50 p.m.—From the Westworth Hotel, items by the New Westworth Symphonic Orchestra, conducted by Mr. Sydney Simpson.
- 11 p.m.—"Big Ben" and announcements.
- 11.5 p.m.—Westworth Dance Orchestra until midnight.
- 12 p.m.—"Big Ben"; National Anthem; close down.

2BL, SYDNEY Broadcaster's, Ltd.

Wave Length, 350 Metres.

EARLY MORNING SESSION.

- 7.15 a.m.—G.P.O. Clock and Chimes.
- 7.20 p.m.—Musical programme from Studio.
- 7.30 a.m.—Physical training and health exercises.
- 7.45 a.m.—Hints on health.
- 7.50 a.m.—Physical training and health exercises.
- 7.55 a.m.—G.P.O. Clock and Chimes.
- 7.58 a.m.—Weather report.
- 7.59 a.m.—Sporting information.
- 8 p.m.—Broadcasters' rental news service.
- 8 a.m.—G.P.O. Clock and Chimes; close down.
- MORNING SESSION.
- 10 a.m.—G.P.O. Clock and Chimes.
- 10.1 p.m.—Weather report.
- 10.3 a.m.—Musical programme from the Studio.

- 10.20 a.m.—News service from the "Daily Telegraph."
- 10.35 a.m.—Musical programme from the Studio.
- 11 a.m.—G.P.O. Clock and Chimes.
- 11.1 a.m.—News from the "Daily Telegraph."
- 11.15 a.m.—Rabbit Market report.
- 11.2 a.m.—Fish Market report.
- 11.3 a.m.—Vegetable Market report.
- 11.35 a.m.—Fruit Market report.
- 11.4 a.m.—London Dairy Produce and Egg Market report.
- 11.50 a.m.—Ships in call by wireless.
- 11.55 a.m.—Information re interstate and overseas mails.
- 11.58 a.m.—Shipping information, arrivals and departures.
- 12 a.m.—Sporting talk.
- 12.40 a.m.—WOMEN'S SESSION, conducted by Mrs. JORDAN, Social News.
- 11.50 a.m.—Mrs. Jordan replies to correspondents.
- 10 p.m.—G.P.O. Clock and Chimes.
- 12.1 p.m.—Mrs. Jordan talks on "Feed the Family."
- 12.25 p.m.—News from the "Sun."
- 12.30 p.m.—G.P.O. Clock and Chimes.
- 12.35 p.m.—Sydney Stock Exchange Calls.
- 12.38 p.m.—"Sun" Newspapers news service.
- 12.45 p.m.—Hillier's Instrumental Quartet: direction, Carol Guelting; 1st violin, Miss Vera Warshaw; publisher, Mr. Jack West; 2nd violin, Miss Daisy Nation.
- 1.00 p.m.—G.P.O. Clock and Chimes.
- 1.05 p.m.—Weather report.
- 1.08 p.m.—Sydney Stock Exchange Calls.
- 1.12 p.m.—Musical Programme from the Studio.
- 2 p.m.—G.P.O. Clock and Chimes; close down.

AFTERNOON SESSION.

- Racing information broadcast by courtesy of "The Sun."
- 3 p.m.—G.P.O. Clock and Chimes.
- 3.1 p.m.—Weather report and forecast.
- 3.2 p.m.—Social news from the "Sun."
- 3.20 p.m.—"Sun" Newspapers news service.
- 3.15 p.m.—Civil Service Stores Trio, direction, Miss Ivy Courtney Bennett; violinist, Miss T. Marshall's cellist, Miss M. Birch.
- 3.35 p.m.—G.P.O. Clock and Chimes.
- 3.38 p.m.—News from the "Sun."
- 3.45 p.m.—Musical programme from the Studio.
- 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.
- 4.40 p.m.—Producers' Distributing Society's Vegetable and Fruit reports.
- 4.45 p.m.—Shipping information when available.
- 4.52 p.m.—Dax's racing resume on race days.
- 4.55 p.m.—News from the "Sun."
- 4.58 p.m.—Resume of night's programme.
- 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.—"The Poets" to the auditor.
- 5.5 p.m.—The Paula of Miss Monica Seully will entertain the ladies.
- 5.49 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and Chimes.
- 7.1 p.m.—Australian Mercantile Land and Flaxton Club's Report, and Chimes.
- 7.5 p.m.—Weather report and forecast by courtesy of Dept. Meteorological.
- 7.8 p.m.—Stock Exchange reports.
- 7.11 a.m.—Producers' Distributing Society's Vegetable and Fruit Market report.

The World's Flyers carried Burgess.



In Wild New Guines with Captain Hurley

RINGED in by bewildered savages, Captain Frank Hurley listened in to the universe, his powerful Burgess Batteries giving perfect results.

The historic scene, reproduced above, was a many-sided triumph.

It represented the daring audacity of an intrepid Australian, the mystery of music picked from the air for the delectation of wide-eyed warriors, and the extraordinary exploit which culminated in the filming of "The Hound of the Deep."

Equally remarkable was the en-

durance shown by the famous Burgess Batteries. They were taken from Australia into the depths and intense damp heat of tropical jungles. At the landing the salt water wet them. Afterwards they travelled through wild bush on the backs of human pack horses.

Never once did they fail, thus thoroughly deserving the ungrudging praise bestowed on them by Captain Hurley.

Long after the great film had been made and the adventurous company had dispersed, these

Burgess Batteries continued their unerring work in Captain Hurley's Sydney home.

This New Adventure merely illustrates the magnificent results obtainable from Burgess Batteries. But it also drives home the lesson that "Substitutes" are never the same.

The radio dealer who offers you a just-as-good battery in place of a Burgess, is not deserving of confidence. He knows the truth of the Burgess slogan:—

"Half the cost because double the life!"

Wholesale Distributors: **New System Telephones Pty. Ltd.** 280 Castlereagh St. Sydney

7.15 p.m.—Fruit and Vegetable Market report. ("Sun").

7.30 p.m.—Grain and Fodder report ("Sun").

7.50 p.m.—Dairy Produce Report ("Sun").

7.50 p.m.—Country News from the "Sun."

8 p.m.—G.P.O. Clock and Chimes.

BROADCASTING SYDNEY CHORUS.

8.1 p.m.—Mr. C. Ross, Williams, baritone.

8.10 p.m.—Miss C. L. Robertson, contralto.

8.15 p.m.—Miss Elsie Finlay, soprano.

8.25 p.m.—Mr. Reg. Harrison, comedian.

8.32 p.m.—The Senior Exorcise Expert of the "Star" will talk on the prospects of Saturday's racing.

8.55 p.m.—Miss Maudie Barnett, contralto.

9 p.m.—G. J. D. Clock and Chimes.

Resumé of following day's programme.

Weather report and forecast in compliance with Mr. C. J. Marex, Govt. Meteorologist.

9.3 p.m.—Broadcasters' Trip.

9.15 p.m.—Miss C. Ross, Williams.

9.21 p.m.—Miss Elsie Finlay.

9.30 p.m.—Interval.

9.34 p.m.—Broadcasters' Trip.

9.44 p.m.—Miss C. L. Robertson.

9.52 p.m.—Miss Maudie Barnett.

10 p.m.—G.P.O. Clock and Chimes.

10.1 p.m.—Broadcasters' Trip.

10.5 p.m.—Mr. Reg. Harrison.

10.55 p.m.—The Ambassadors Dance Band broadcast from the ballroom of the Ambassadors. During the intervals between the dances news reports by courtesy of the "Sun" Newsagents will be broadcast.

12 p.m.—G.P.O. Clock and Chimes.

National anthem.

3LO, MELBOURNE
Broadcasting Co. of Aust.
Wave Length, 371 Metres.

MID-DAY SESSION—

FUN AND FRIVOLOUS.

THE STUDIO ORCHESTRA. Musical Director, REG. BRADLEY. ALEC KELLAWAY and ESTELLE FORTUNE. AGNES FORTUNE, THE PREMIER FOUR.

Announcers: MAURICE DUDLEY. Accompanist: AGNES FORTUNE.

12.30 p.m.—Time Signal. British Official Wireless news from Rugby. Reuters and the Australian Press Association Cables "Areas" and "Herald" news service.

12.30 p.m.—STUDIO ORCHESTRA. "Serenade" (Mozart).

12.40 p.m.—ALEC KELLAWAY & ESTELLE FORTUNE. The Singing Rover and the Character. Historical. "Maid of Mine." "Stories a Good Man." "It's Too Late to be Sober." "Hard Hearted Hannah."

12.47 p.m.—Meteorological Information. Stock Exchange Information. Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales. Ocean Forecasts.

1 p.m.—THE STUDIO ORCHESTRA. "Second New Sullivan Selection" Part 1.

1.10 p.m.—AGNES FORTUNE. Banefest's Solo. "Little Land" (Cecil Scott).

1.17 p.m.—THE PREMIER FOUR. Male Quartette. "That Certain Party." "The genus Hump My Mince."

1.24 p.m.—THE STUDIO ORCHESTRA. "New Sullivan Selection" Part II.

1.30 p.m.—THE PREMIER FOUR. "Little Irish Girl." "Gipsy Land."

1.47 p.m.—THE STUDIO ORCHESTRA. "Ligh Cavalry" Overture (Suppe).

2 p.m.—Close down.

AFTERNOON SESSION.

Speakers: "AU FAIT" Mrs. M. CALLAWAY MAHOOD.

THE STUDIO ORCHESTRA. Musical Director, REG. BRADLEY. DR. ARNOLDO BARTOLINI, baritone. THE ROYAL SCOTS, BESSIE GAUNSON, violin. WALTER SMITH, corno.

Announcers: MAURICE DUDLEY. Accompanist: AGNES FORTUNE.

MUSIC FROM THE PAST AND MUSIC OF TO-DAY.

3 p.m.—STUDIO ORCHESTRA. "St. Agnes' Eve" (Chopin—Tuller).

3.10 p.m.—"AU FAIT" of Messrs. HUCKLEY & GUNN. LEO, (Sullivan Trio).

3.20 p.m.—DR. ARNOLDO BARTOLINI, baritone. "Inno and serenade" (Liszt) in the Mountains. (From "Aida" (MASCARDI). "Dumma" (Liszt) in very light voice.

3.35 p.m.—STUDIO ORCHESTRA. "Dyane Daise Revere" (Garré).

3.45 p.m.—THE ROYAL SCOTS. In shape of a waltz. "Dance to me only." "The Pops at Home." "The Ash Grove" (Old Welsh).

3.52 p.m.—BESSIE GAUNSON, violin. "Home, Sweet Home" (Kreutzer).

4 p.m.—STUDIO ORCHESTRA. "St. Agnes' Eve" Part II.

4.10 p.m.—DR. ARNOLDO BARTOLINI, baritone. "Tavera" (Liszt) (Paur—Ramm). (Tutti) "Malla" (Grove) (Tutti).

4.15 p.m.—WALTER SMITH, corno solo. "Two Little Ballads."

4.25 p.m.—THE STUDIO ORCHESTRA. "Give Me Back My Heart" (Hartmann).

4.30 p.m.—Mrs. MARGARET CALLAWAY MAHOOD. "The Art of Pointing in Oil."

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

5 p.m.—Close down.

EARLY EVENING SESSION.

5.40 p.m.—CHILDREN'S HOUR. Answers to letters and hints on spelling.

5.45 p.m.—MRS. MARGARET CALLAWAY MAHOOD. "Society Lane Gal." "Red, Red, Robin."

6.02 p.m.—Stereo for the Little Ones. "Billy Bunny."

6.12 p.m.—ESTELLE FORTUNE, plays some violin solos. "Humour" (Grieg). "The Swan" (Saint Saens). "Moment Musical" (Schubert-Kreutzer).

6.17 p.m.—MARGOT BAILEY, again. "That Little Me." "I Love My Baby."

6.30 p.m.—Stories for the bigger children by Billy Bunny. "The Queen Bee." "The Blue Princess."

EVENING SESSION.

6.35 p.m.—Argus and Herald news services. Weather reports. Shipping movements.

6.45 p.m.—Stock Exchange information.

6.50 p.m.—Fish Market reports. by J. H. Deane.

6.55 p.m.—River reports.

6.58 p.m.—Market reports by the Victorian Producers' Co-operative Co. Ltd. Haymarket show sales. Poultry, Grain, Straw, Fat, Hides, Hides, Potatoes, and Onions.

7.10 p.m.—Market prices of oranges and lemons by the Victorian Central Citrus Association.

NIGHT SESSION.

A POPULAR PITY PARTY.

Speakers: Mr. R. J. de C. TALBOT, Mr. MURPHY, Miss MAUDIE LA VARRIE, MURKETT, Mr. H. K. LOVE.

FOLLOWING WEDNESDAY BAND. Conducted by LEO GIBBONSON.

JANE BLACKMORE, contralto. VIKTOR LINT, baritone. ALEC KELLAWAY and ESTELLE FORTUNE. MARGOT BAILEY and MELBOY MOANA LIA LIA.

Announcers: ALFRED ANDREW. Accompanist: AGNES FORTUNE.

8 p.m.—FOLLOWING WEDNESDAY BAND. Diamond Cross (Harcourt).

8.10 p.m.—JANE BLACKMORE, contralto. "Dear Heart" (Tuller). "Innocence" (W. Anderson).

8.15 p.m.—VIKTOR SARCOLI, violin, recital. "Nocturne" (Chopin).

8.25 p.m.—DR. ARNOLDO BARTOLINI, baritone. "Venezia Zeyra" (Liszt) of the Coast. from "Roberto Macchi" (Liszt). "Ho Sirente" (I had a Dream) (Poullet).

8.31 p.m.—FOLLOWING WEDNESDAY BAND. "Bells are as the Moons" (F. Strauss).

8.44 p.m.—ALEC KELLAWAY and ESTELLE FORTUNE. "Maid of Mine" (Cecil Scott) and "I 'd be Surprised" "I Love a Little Cabbage."

8.58 p.m.—Moana Lia LIA LIA. "Smile, then Kisses." "Always." "Yarka Hole."

9.00 p.m.—"MURKETT" of the Evening Globe, will speak on "The Art of Describing Nature."

9.21 p.m.—COLLINGWOOD CITIZENS' BAND. "Recollections of England" (R. M. Hill).

9.25 p.m.—Jane BLACKMORE, contralto. "The First Spring Day" (Drummond). "The Broom for You" (Drummond).

9.40 p.m.—VIKTOR SARCOLI, violin, recital. "Nocturne" (Chopin). "Capriccio No. 10" (Paganini—Kreutzer).

9.50 p.m.—DR. ARNOLDO BARTOLINI, baritone. "Serenade" (Tuller). "O solo mio" (Lil). (Lil).

9.55 p.m.—British Official Wireless news. Read notes supplied by the Royal Automobile Club. Arrangements.

10.05 p.m.—COLLINGWOOD CITIZENS' BAND. "Rosalie" in the City of the Deep" (Roulet).

10.10 p.m.—Mr. P. K. LOVE will give a talk on "Technological."

10.15 p.m.—WENDELPH and MOLLOY the Melody Duo. "American Melody." "Moonlight."

10.25 p.m.—MOANA LIA LIA DUO. "Austria Waltz." "Moana Lia LIA LIA." "Hill March."

10.35 p.m.—FOLLOWING WEDNESDAY BAND. "The Ten Irish Maids" (Sullivan). "Rhythm Solo." Mr. R. STENCER. "Sleep in the Deep" (Pietri).

10.42 p.m.—"Argus" news service. Meteorological information.

10.55 p.m.—ELO MELODY MASTERS. "That Certain Party."

11 p.m.—"OUR GREAT THOUGHT" A waltz solo will make more opportunities than his good friends.

11.05 p.m.—ELO MELODY MASTERS. "Rosa of Spain." "My Mother's in Town." "A Night of Love." "Pleaser." "Whirlwind." "The Three Faces."

11.45 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

Associated Radio Co.
Wave Length, 184 Metres.

MORNING SESSION.

11.35 a.m.—British Official Wireless Press service from (Radio News) London Station, England. Latest train information. "Aussie" news, bulletin, include to 3AR.

11.50 a.m.—Time Signal. "Chimes from G.P.O. Studio. Harcourt and Oudine. Thermometer readings. Events of the day.

12 p.m.—Market Information from the Star.

12.30 p.m.—Stock Exchange news. Market comment.

12.40 p.m.—Musical selections.

12.50 p.m.—Shipping movements. Mail notices.

1 p.m.—Close down.

AFTERNOON SESSION.

2.30 p.m.—THE IRON BREARLEY QUARTETTE. "Reception Gloria" (F. Mend.). "The Fourth Reception Medley" (Zemmelki). "The 4th Solo" (McALMAN). "Serenade" (Lil). (Lil).

VIKTOR SARCOLI, Mr. BERT PATTISON, "Largo" (Grieg). (Lil). (Lil).

3.00 p.m.—Miss MRS. B. BEARLEY. "Liliental" (Kreutzer).

3.10 p.m.—Time Signal. Chimes from G.P.O. THE IRON BREARLEY QUARTETTE: "Copenhagen" (Davis). "Milkmaid Song" (Mendel). "Dream of Love and You" (Tuller).

3.20 p.m.—Mr. B. STANLEY HAZEL, Gardening Talk to children.

3.30 p.m.—Evening Amusement Guide.

3.40 p.m.—Time Signal. Chimes. Studio Thermometer and Oudine Thermometer readings. Close down.

FAMILY EVENING SESSION.

4.45 p.m.—THE CHILDREN'S CORNER. "UNCLE NED."

EVENING SESSION.

7.45 p.m.—British Official Wireless Press Service from London and Oudine Thermometer readings. Latest news and shipping movements of the ensuing week reviewed by 3AR.

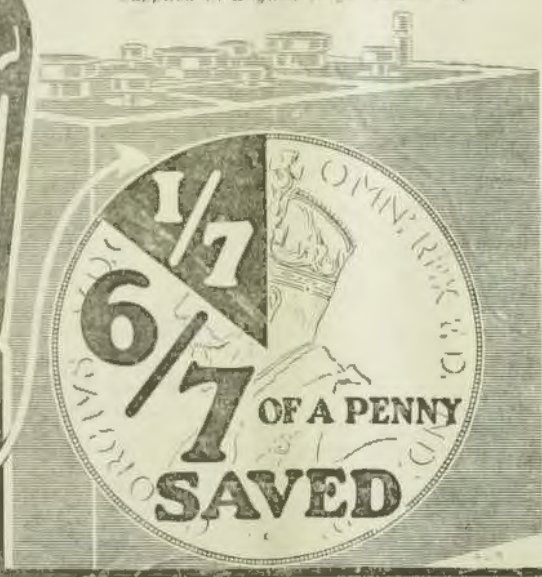


B.406—The New Wonder Valve

There are **Three Reasons** why your set should be equipped with **Philips B.406 Valves**.

1. The Quality of this valve cannot be surpassed. It is the product of years of Research by our Technical Department which includes over 60 Scientists of world fame.
2. Filament consumption $3\frac{1}{2}$ to 4 volts, 0.1 amp. The Economy of the B.406 is amazing. This valve requires only **one-seventh** of the filament current necessary for earlier types of valves.
3. The B.406 costs no more to buy—**13/6**—of all Dealers.

Supplied in English or American Cap



- 8.0 p.m.—Time Signal from G.P.O.
- Mr. LES BYNAN, Novelty Turn, Trombone Whistle, accompanied by himself at the piano; "That Certain Party," "Meatless Rose."
- 8.7 p.m.—Miss PEGGY DAVIES, Soprano; "Pale Moon" (Lenny), "Who Knows" (Ball)
- 8.14 p.m.—Mr. ERIC ATKIN, symphonium at the piano; "Blue Evening Blues" (Baur), "In a Monastery Garden," "Charlestinet" (Atkins).
- 8.24 p.m.—Mr. ROBT. MAO HENRY, Tenor; "Melodious in the Wood" (Goetz), "The Star" (Ruzer).
- 8.31 p.m.—Mr. R. STANLEY HAINES; Weekly Gardening Chat.
- 8.46 p.m.—Miss CATHERINE ROGERS, contralto; "The Spirit Song" (Haydn), "Toll Me, Gipsy" (Day).
- 8.53 p.m.—Miss MARIE ST. CLAIR, vocalist; Intro. from the "Sentimental Bloke" (Hennis).
- 9.0 p.m.—Mr. FRANK KEAN, baritone; "There's a Friend in Every Milestone"; "The Old Fashioned Town" (Adams).
- 9.6 p.m.—Mr. ERIC ATKIN, symphonium at the piano; "Poor Papa," "The Prisoner's Song" (Massey).
- 9.17 p.m.—Miss PEGGY DAVIES, soprano; "Danny Boy," "Thank God for a Garden" (Del Negro).
- 9.24 p.m.—Humorous Sketch "Dressing for Dinner," Characters.
- Edith Van Rypen, Miss MARIE ST. CLAIR, Fred Van Rypen, Mr. FRANK KEAN
- 8.39 p.m.—Miss CATHERINE ROGERS, contralto; "Song of Thanksgiving" (Allison), "When All Was Young" (from Faust Ground).
- 9.46 p.m.—Mr. LES BYNAN, in a further entertainment with trombone, whistle, and piano; "Yorling."
- 8.43 p.m.—Mr. ROBT. MAO HENRY, tenor; "Lullaby" (Burti-Percis), "By the Blue River" (Clarke).
- 10.0 p.m.—Time Signal from G.P.O. Studio, Barometer reading, "Age" News Bulletin exclusive to IAR.
- 10.1 p.m.—LEGGETT'S BALLROOM ORCHESTRA.
- 11 p.m.—Time Signal (time) close down.

4QG, BRISBANE

Queensland Radio Service.

Wave Length, 385 Metres.

MIDDAY SESSION.

- 12.35 p.m.—Tune in.
- 12.38 p.m.—Time Signal.
- 1.0 p.m.—Market reports; weather information supplied by the Commonwealth Weather Bureau; News Service supplied by "The Daily Mail" and "The Daily Standard."
- 1.25 p.m.—Fun from Hotel Carlton; Lunch music from the Lounge, Hotel Carlton, played by Hotel Carlton Symphony Orchestra.
- 2.0 p.m.—Close down.

AFTERNOON SESSION.

- 2.35 p.m.—Fun 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."
- 4.29 p.m.—Close down.
- EARLY EVENING SESSION.**
- 6.0 p.m.—"Daily Standard" News. Announcements.
- 6.50 p.m.—The Children's Section; Stories by "The Snodgrass."
- 7.0 p.m.—Market Reports, Lectures; "Agriculture in Germany: A Queenslanders' Impressions," No. 1 of a series—Mr. J. F. F. Reid, editor "Queensland Agricultural Journal."
- 7.50 p.m.—Stock Reports, Weather News. Announcements.

NIGHT SESSION.

- 7.45 p.m.—Lecture: Season—A Talk arranged by the Workers' Educational Association.
- 8.0 p.m.—March, "The Victor's Return" (Rimmer); the Federal Band (conductor, Mr. W. H. Davis), contralto solo, "Requiem" (Schubert), Miss Jessie McDonald, euphonium solo, "The Troublent" (Sutton), Mr. J. Kulick (accompanied by the Federal Band); tenor solo, selected, "The Fairies" (Greenwood), the Federal Band; baritone solo, "Song of the Bow" (Aschwald), Mr. P. C. Lloyd Gier, "Winds Gentle Whimper" (Whittaker), the Federal Band; soprano solo, "My World" (Gresh), Miss Phyllis Verrier; intermezzi; "Heartaches" (Macbeth), the Federal Band.
- 9.0 p.m.—Metropolitan Weather Forecast. Weekly road information for motorists, officially supplied by the Royal Automobile Club of Queensland.
- The Studio Orchestra—Overture, "Seara-mouche" (Korngold), the Studio Orchestra (conductor, Mr. A. R. Eastington); contralto solo, "Prayers" (Arundel), Miss Jessie McDonald; value, "Krisis Bad Klänge" (Lampy), the Studio Orchestra; tenor solo, selected, Mr. E. T. Beaton; selection, "The Old Town" (Luders), the Studio Orchestra; soprano, "Just a Song of Twilight" (Molloy), Miss Phyllis Verrier; soprano, "Shadow Dance" (Eugenmann), the Studio Orchestra; baritone solo, "The Dream Boat" (Newton), Mr. P. C. Lloyd; orchestral—(a) fox-trot, "Just One More Kiss" (Berger), (b) rag, "Diablo Rag" (Wahl), the Studio Orchestra.
- 10.0 p.m.—"The Daily Mail" News Weather News. Close down.

5CL, ADELAIDE

Central Broadcasters, Ltd.

Wave Length, 395 Metres.

MORNING SESSION.

- 11.05 a.m.—G.P.O. Chimes.
- 11.31 a.m.—Stock Day Art number.
- 11.40 a.m.—"Advertisement" news service.
- 11.55 a.m.—Vocalion number.
- 12.0 p.m.—G.P.O. Chimes.
- 12.05 p.m.—"Advertisement" news service.
- 12.16 p.m.—Stock Day Art number.
- 12.50 p.m.—Studio Orchestra Selection, "Merry England"; waltz, "Pension Ticket"; fox-trot, "Fop of Salzburg"; Viennese waltz, waltz, "The water beetle"; violin solo, "Bereanna"; kvartett, "The way to the heart"; serenata, "Pizzico farewell"; finale, "Rose Marie."
- 2.55 p.m.—Ward and Co.'s Stock Exchange reports. Official weather synops and station announcements.
- 2.0 p.m.—G.P.O. Chimes.

AFTERNOON SESSION.

- 3.0 p.m.—G.P.O. Chimes.
- 3.1 p.m.—Radio Fun from Maple Leaf Cafe—Orchestral numbers.
- 3.45 p.m.—From Studio—Talk by Mrs. Coghill.
- 4.0 p.m.—G.P.O. Chimes.
- 4.1 p.m.—Relay from Aranda Cafe—Soloist, Miss Mota Reibel.
- 4.55 p.m.—Stock Exchange reports general information and station announcements.
- 5.0 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

- 6.30 p.m.—G.P.O. Chimes.
- 6.31 p.m.—Stock Day Art number.
- 6.35 p.m.—Children's Hour: bedtime stories and nursery rhymes.
- 7.00 p.m.—Market reports by (Belgony and Co., S. C. Ward and Co.)
- 7.05 p.m.—Sporting talk by 5CL Sporting Committee; "Statistics of the Week."
- 8.0 p.m.—G.P.O. Chimes.
- 8.1 p.m.—Orchestral music relayed from Messrs. Malcolm Reid and Co.
- 8.15 p.m.—Song, Mr. Syd. Morrell.

- 8.57 p.m.—Relay from Messrs., Malcolm Reid and Co.
- 8.58 p.m.—Song, Miss Joy Watson.
- 8.57 p.m.—Relay from Messrs. Malcolm Reid and Co.
- 8.47 p.m.—Song, Miss Lorna Kerriem.
- 8.50 p.m.—Relay from Messrs. Malcolm Reid and Co.
- 9.0 p.m.—G.P.O. Chimes.
- 9.1 p.m.—Weather reports.
- 9.3 p.m.—Dalry's wheat report.
- 9.5 p.m.—Overture, 5CL Orchestra.
- 10.0 p.m.—Song, Mr. Syd. Morrell.
- 9.15 p.m.—Radio solo, Mr. Seth Smith.
- 9.21 p.m.—Recitation (humorous), Mr. Stephen Dunik.
- 9.36 p.m.—Xylophone solo, Mr. W. Wallace.
- 9.39 p.m.—Song, Miss Joy Watson.
- 9.33 p.m.—Selection, 5CL Orchestra.
- 9.40 p.m.—Song, Miss Lorna Kerriem.
- 9.43 p.m.—Selection, Katoomba Duo.
- 9.50 p.m.—Humorous recitation, Mr. S. Dunik.
- 9.54 p.m.—Selection, 5CL Orchestra.
- 10.0 p.m.—G.P.O. Chimes.
- 10.1 p.m.—Song, Miss Joy Watson.
- 10.4 p.m.—Radio solo, Mr. Seth Smith.
- 10.8 p.m.—Soloist, Miss J. Watson.
- 10.14 p.m.—"Advertiser" news service.
- 10.20 p.m.—Selection, 5CL Orchestra.
- 10.45 p.m.—Song, Mr. Syd. Morrell.
- 10.49 p.m.—Concert continued by 5CL Orchestra, Miss J. Watson, L. Kerriem, Messrs. S. Dunik, Katoomba Duo and Mr. S. Smith.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1250 Metres.

- 12.30 p.m.—Tune in.
- 12.38 p.m.—Five Local News Bulletin.
- Market reports, Perth.
- 1.0 p.m.—Time Signal from the Perth Observatory.
- 1.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
- 1.2 p.m.—STUDIO SEKTETTE; "Chanson d'opere" (Ravins), "Overture."
- "Romanticism" (Katz-Bela).
- Trombone Solo; R. Piper, soloist.
- "The Swan" (Saint-Saens).
- Soloist; "The Ph."
- "Silvieg's Song" (Grieg).
- "Maidenhead" (Helmond).
- "The Frogg mark touch" (Helmond).
- 2.40 p.m.—Close down.
- 4.00 p.m.—Tune in.
- 4.35 p.m.—Musical programme.
- 4.50 p.m.—Close down.
- 5.0 p.m.—Tune in.
- 5.5 p.m.—A Musical Evening for the Kadlice, by Aunt Evelyn and Uncle Harry, Lovell, Perry and Duffy.
- 7.35 p.m.—Stock and Share intelligence. Market reports. Chimes, news by courtesy of "The West Australian."
- 8.0 p.m.—Time Signal from the Perth Observatory.
- 8.5 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
- 8.2 p.m.—Musical programme.
- 8.15 p.m.—Talk.
- 10.0 p.m.—Second News Bulletin, supplied by courtesy of "The Daily News."
- 10.00 p.m.—Close down.

7ZL, HOBART

Tasmanian Broadcasters, Ltd.

Wave Length, 368 Metres.

MORNING SESSION.

- 11 a.m.—G.P.O. Clock Chimes.
- 11.12 a.m.—"The Mercury" news; Shopping; Commercial intelligence; Weather information; Ships within wireless range.
- 12.0 p.m.—G.P.O. Clock Chimes.
- Close down.

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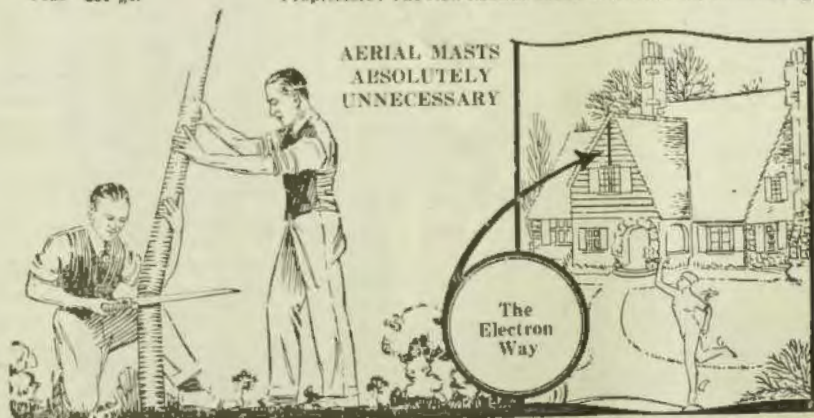
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AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock Chimes; Musical Items from the Studio.
- 3.30 p.m.—Victory Stock Exchange Quotations.
- 3.55 p.m.—Weather Information.
- 4 p.m.—G.P.O. Clock Chimes.
- Close down.

EVENING SESSION

- 7 p.m.—Children's Corner "Big Brother" chats to his pals.

NIGHT SESSION.

- 8 p.m.—G.P.O. Clock Chimes; The "Mercury" Special Tasmanian News Service; Railways Auction Produce Sales; Weather Information.
- 8.5 p.m.—Hobart Stock Exchange Quotations.
- 9.10 p.m.—Weekly Gardening Chat by Mr. George Nation.
- 9.30 p.m.—Concert from the Studio, Miss Bertha Marshall soprano, Miss Diletta Tate, pianist, Miss Ruby Pines, vocalist, Mr. Lloyd Dawling, tenor, Mr. Robert Lantz, baritone.
- 9.55 p.m.—Poetry and Produce Reports from Roberts and Co. Ltd., Murray Street, Hobart; Tasmanian District Weather Reports.
- 9.59 p.m.—The "Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements; Ships Within Wireless Range; Week-end Travellers' Information; National Anthem.

The usual Sporting Session in the afternoon including a description of the A.J.C. Race Meeting at Sandwick, by the 2FC Racing Commissioner.

During the afternoon's transmission of Sporting Events, instrumental items will be given from the Studio at intervals.

NIGHT SESSION

- 10 p.m.—From the Spiny Spots Stand. The 1937 Road Carnival. 400 Grams in which the following bands will take part—
 Northampton
 New South Wales Trossers
 Ghile
 Cairns
 Central
 Harwood
 O'neill
 North Sydney Tramway
 Kinrossa Orphanage.
- During intervals at the Band Carnival held at the Sydney Sports Ground, the following artists will be heard from the Studio:—
 Mr. Joe Cahill, comedian.
 David Francis, burlesque.
 Miss Edna Davis, gypsophile selections.
- 11 p.m.—"Big Ben" and announcements.
- 11.5 p.m.—Mr. Len Maurice, popular baritone in conjunction with the 2FC Dance Band, conducted by Mr. Eric Pearce. Dance music until midnight.
- 12 midnight—National Anthem. Close down.

- 1.15 p.m.—Talk on sporting and athletic fixtures for the day. Lacrosse, hockey, golf, bowls, tennis, baseball. During the afternoon sporting information will be broadcast by the courtesy of the "Sun" Newspapers. Race results will broadcast every half-hour.
- Musical programme from the studio during the afternoon.
- 5.9 p.m.—G.P.O. Clock and Chimes; close down.

EARLY EVENING SESSION.

- 5.15 p.m.—G.P.O. Clock and Chimes.
- 5.35 p.m.—The Gowers and the Kiddles.
- 5.40 p.m.—Musical programme from the Studio.
- 7.15 p.m.—Results of all sporting information including racing, bowls, tennis, swimming, sailing, athletics by courtesy of the "Sun".
- 7.25 p.m.—Country news from the "Sun" and results of all sporting and athletic fixtures.
- 8 p.m.—G.P.O. Clock and Chimes. Broadcasters' Topical Chimes.
- 8.4 p.m.—King's Maestros Orchestra.
- 8.10 p.m.—Mr. Roger James, (Baritone).
- 8.15 p.m.—Mr. Bruce Clarke, Humourist at the piano.
- 8.25 p.m.—Miss Marjorie Skell, Liza's soprano.
- 8.32 p.m.—Mr. Frank Ryan, Comedian.
- 8.40 p.m.—Mr. Marjorie Wilson, (Soprano).
- 8.45 p.m.—Miss Lily Dalgleish, (Soprano).
- 8.54 p.m.—Resume of following day's programme; weather music, and forecast by courtesy of Mr. C. Marco, Dept. Meteorologist.
- 9.9 p.m.—G.P.O. Clock and Chimes.
- 9.1 p.m.—King's Maestros Orchestra.
- 9.4 p.m.—Mr. Roger James.
- 9.15 p.m.—Mr. Bruce Clarke.
- 9.22 p.m.—Miss Marjorie Skell.
- 9.29 p.m.—Interlude.
- 9.34 p.m.—Mr. Marjorie Wilson.
- 9.42 p.m.—Organ will talk of the Aborigines.
- 10.0 p.m.—G.P.O. Clock and Chimes.
- 10.1 p.m.—Mr. Frank Ryan.
- 10.8 p.m.—Miss Lily Dalgleish.
- 10.15 p.m.—The Ambassador's Dance Band broadcast from the ball room of the Ambassador. During the intervals between dances news reports by courtesy of the "Sun" will be broadcast.
- 12.0 midnight—G.P.O. Clock and Chimes. National Anthem.

2BL, SYDNEY

EARLY MORNING SESSION.

- 7.15 a.m.—G.P.O. Clock and Chimes.
- 7.18 a.m.—Musical programme from the studio.
- 7.19 a.m.—Physical training and health exercises.
- 7.25 a.m.—Hints on health.
- 7.30 a.m.—Physical training and health exercises.
- 7.45 a.m.—G.P.O. Clock and Chimes.
- 7.46 a.m.—Weather report.
- 7.48 a.m.—Sporting information.
- 7.50 a.m.—Broadcasters' special news service.
- 8.0 a.m.—G.P.O. Clock and Chimes; Close down.

MORNING SESSION.

- Racing information broadcast by courtesy of the "Sun".
- 11.0 a.m.—G.P.O. Clock and Chimes.
- 11.1 a.m.—Weather report and forecast by courtesy of Mr. C. J. Marco.
- 11.5 a.m.—Sydney "Daily Telegraph" news service.
- 11.25 a.m.—Women's Section conducted by Mrs. Jordan—Social Notes.
- 11.30 a.m.—Mrs. Jordan replies to correspondents.
- 11.46 a.m.—Talk by Mrs. Jordan.
- 12.5 p.m.—Musical programme from the Studio.
- 12.35 p.m.—"Sun" newspapers news service.
- 12.30 p.m.—G.P.O. Clock and Chimes.
- 12.31 p.m.—London Metal Quotations.
- 12.35 p.m.—Boats in call by Wireless.
- 12.38 p.m.—Weather report and forecast by courtesy of Mr. C. J. Marco.
- 12.40 p.m.—Shipping Information—arrivals and departures.
- 12.43 p.m.—Information re Interstate and overseas mails.
- 12.45 a.m.—News from the Sun Cable Edition.
- 1.0 p.m.—G.P.O. Clock and Chimes.
- 1.3 p.m.—Musical programme from the Studio.
- 1.15 p.m.—News from the "Sun".
- 1.20 p.m.—G.P.O. Clock and Chimes.
- 1.31 p.m.—Musical programme from the Studio.

3LO, MELBOURNE

MORNING SESSION.

- THE STUDIO ORCHESTRA: Musical Director, REGINALD BRADLEY. THE PREMIER FOUR: TANITA TIERNAN, (Soprano), MASCOTTE, (Alto), BARBETTE, (Tenor), RICHARD CHUGG, (Bass), WINDLING and MOLLOY, melody duo, THE ROYAL SCOTS, WALTER SMITH, cornet, AGNES FORTUNE, pianoforte.
- Accompanist: AGNES FORTUNE.
- 11.41 a.m.—STUDIO ORCHESTRA, Overture, "Fish and Peasants" (Soprano).
- 11.46 a.m.—THE PREMIER FOUR, Male's Quartet, "I Will Love You More Than Ever," "Mother of Mine."
- 11.17 a.m.—TASMA TIERNAN, (Soprano), "Kot Nudra" (Buck).
- 11.24 a.m.—STUDIO ORCHESTRA, "A Danish Chorus" (Soprano).
- 11.30 a.m.—MASCOTTE RALSTON, Soprano, "O' Climb the Highest Mountain," "I Never Knew How Wonderful You Were."
- 11.37 a.m.—C. RICHARD CHUGG, (Bass), "Whirlwind" (Krauts).
- 11.42 a.m.—THE PREMIER FOUR, "Baby-bye," "Gipsy Land."
- 11.50 a.m.—STUDIO ORCHESTRA, "Fantasy on Tosti's Song."

Saturday, January 22
2FC, SYDNEY

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
- 7.3 a.m.—Studio Music.
- 7.10 a.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, commercial news, mail services.
- 7.25 a.m.—Investment market, mining share market, metal quotations.
- 7.35 a.m.—Wool sales, breadstuffs markets, interstate markets, produce markets.
- 7.45 a.m.—"Sydney Morning Herald" news service.
- 8 a.m.—"Big Ben," Studio Music.
- 8.15 a.m.—Close down.

MORNING SESSION.

- 8.15 a.m.—The Chimes of 2FC.
- 8.29 a.m.—Studio Music.
- 8.45 a.m.—Last minute sporting information by the 2FC Racing Commissioner.
- 9 a.m.—"Big Ben" and announcements.
- 9.55 a.m.—Late "Sydney Morning Herald" news service.
- 10.15 a.m.—Studio music.
- 10.45 a.m.—A Morning Reading.
- 11 a.m.—"Big Ben," Australian Press Association and Reuter's Cable Services.
- 11.5 a.m.—Studio Music.
- 11.13 a.m.—Gardening Talk by Mr. G. J. Lockley—"Red Gun."
- 11.20 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

- 12.15 p.m.—The Chimes of 2FC and announcements.
- 1 p.m.—"Big Ben."
- 1.1 p.m.—Stock Exchange.
- 1.3 p.m.—"Evening News" midday news service. Weather Intelligence.
- 4.15 p.m.—Studio Music.
- 4 p.m.—"Big Ben" and announcements.

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RADIO DISTRIBUTORS

Opp. Lyceum Theatre

29 ROYAL ARCADE

12 p.m.—Time Signal. British Official Wire, news from Rugby. Reuters and the Australian Press Association Cables. News and literary news services. Shipping intelligence.

12.30 p.m.—STUDIO ORCHESTRA, Overseas, "Russian and Turludine" (Glinka).

12.40 p.m.—WEDDING and MOLLOY, melody duo, "The Last of My Love for You," "Why Don't You Marry the Girl?"

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

1 p.m.—AGNES FORTUNE, pianoforte. "Romance" (Robinson).

1.07 p.m.—THE ROYAL SCOTS. "Old Black Joe," "John Brown's Day," "The girls Back to Dixie."

1.15 p.m.—STUDIO ORCHESTRA, "Mahnora" from "Natoma" (Herbert).

1.29 p.m.—WALTER SMITH, corned solo. "On Manly Shore" (Cude).

1.41 p.m.—WEDDING and MOLLOY, melody duo. "Blue Danube Blues," "Prisoner's Song."

1.42 p.m.—STUDIO ORCHESTRA, "Soldiers' Chorus" from "Paul" (Gounod).

1.50 p.m.—Description of TWIGGIE HURBLE, Moonee Valley Races, by "Muskiet" of the Sporting Globe.

2.5 p.m.—Close down.

2.35 p.m.—Description of NIDDRIE HANDL, C.P., Moonee Valley Races, by "Muskiet" of the Sporting Globe.

AFTERNOON SESSION.

4.0 p.m.—Description of WILLIAM REID STAKES, Moonee Valley Races, by "Muskiet" of the Sporting Globe.

4.05 p.m.—ELO MELODY MASTERS, "The me to Your Arms Stripes Again," "Sweet Child," "Where'd You Get Those Eyes," "Through Kennedy I'll Dream of You," "Larcenia."

4.40 p.m.—Description of WAROOK HIGHWRIGHT HANDICAP, Moonee Valley Races, by "Muskiet" of the Sporting Globe.

4.45 p.m.—ELO MELODY MASTERS, "My Mamma's in Town," "A Night of Love," "Mary Lou," "What Was I to Do?," "Crying on the Home," "Prisoner's Song."

4.50 p.m.—Description of CALDERHEAD HANDICAP, Moonee Valley Races, by "Muskiet" of the Sporting Globe.

4.55 p.m.—ELO MELODY MASTERS, "Prisoner," "My Girl's Got Eye Trouble," "Just a Bird's Eye View," "Rose of Japan."

4.60 p.m.—"Herald" news service. Stock Exchange information. Race results.

4.65 p.m.—Description of GRANMALLAN MAIDEN PLATE, Moonee Valley Races, by "Muskiet" of the Sporting Globe.

5 p.m.—Close down.

EVENING SESSION.

6.20 p.m.—SPORTING RESULTS.

6.40 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings, by "Baby Bingham."

6.55 p.m.—A Musical Programme by DR. FLOYD and the CHORISTERS of St. Paul's Cathedral.

6.55 p.m.—"Argus" and "Herald" news services. Weather information. Aerial Mail information by The Australian Aerial Services, Ltd.

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

6.52 p.m.—Fifth Market reports by J. B. Stewart, Ltd.

6.55 p.m.—River reports.

6.58 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Maymarket, Sheep Sales, Dairy, Cattle, Chaff Bay, Straw, Jute, Dairy Produce, Potatoes and Onions, Market prices of Oranges and Lemons, by the Victorian Central Citrus Association Pty., Ltd.

NIGHT SESSION.

Speakers: Mrs. FRANCES FRASER, Mr. FREDRICK CHAPMAN, A.L.E., DR. J. LEACH.

THE BRUNSWICK CITY BAND, conductor, MR. HUGH NIVEN; THE PREMIER FOUR, male quartet; TOM WHIDDURN, baritone; JANE BLACKMORE, contralto; PROF. PIETRO SARBUL, violin; ALIC KELLAWAY and ESTELLE ROSE.

ONE ACT PLAY.

410 MELODY MASTERS. Accompanied. AGNES FORTUNE, Announcer; MAURICE DUDLEY.

7.15 p.m.—Mrs. FRANCES FRASER, Travelogue, "The English Lakes."

7.30 p.m.—Mr. FREDRICK CHAPMAN, A.L.E., "The Lunatics of the Bonaville Valley."

9.45 p.m.—Dr. J. A. LEACH, D.Sc., "Australian Epigrams" (Part II). Nihilism. "Piccolomini" and "Something Old and Something New."

5 p.m.—BRUNSWICK CITY BAND, direction Mr. HUGH NIVEN, Waifs, "Prairie Flower" (Greenwood).

6.04 p.m.—PREMIER FOUR, male quartet. "Lovers' Through the Rye," "Just a Song at Twilight."

8.15 p.m.—STUDIO ORCHESTRA, Variazioni, "The Silver Lake."

8.25 p.m.—TOM WHIDDURN, baritone, song, "The Good Ship Sunshine"; recital, "Lucca."

8.32 p.m.—BRUNSWICK CITY BAND, Cornet Soloist, Mr. TREV PARFELL, "The Two Elephants" (Mozart).

8.42 p.m.—THE PREMIER FOUR, "Caroline," "When You and I were Seventeen."

ONE ACT PLAY.

"BREAKING THE ICE" Mark ... Mr. MAURICE DUDLEY. Jack ... Mr. CHARLES DYSON.

9.20 p.m.—STUDIO ORCHESTRA, Selections, "Chu Chin Chow" (Nordic).

9.30 p.m.—JANE BLACKMORE, contralto, "When You Come Home" (Biquet, "Larcenia" (Molloy).

9.45 p.m.—PROF. PIETRO SARBUL, violin. "Andantino" (Marsini-Kreutzer); "Rondino" (Schubert).

9.45 p.m.—British Official Wireless news from Rugby. Announcements.

9.57 p.m.—ALIC KELLAWAY and ESTELLE ROSE, "Rhapsodies of Mine," "Stories A and B," "The Commitments of Love," "Doodle-Do."

10.10 p.m.—THE BRUNSWICK CITY BAND, Match, "The Colonel's Parade" (Home).

10.15 p.m.—JANE BLACKMORE, contralto, "How May a Lonely Varasani" (Woodford), "If in the Great Bazaar" (Pindini).

10.22 p.m.—STUDIO ORCHESTRA, "Suite Tyrolaise" (Bischoff).

10.30 p.m.—TOM WHIDDURN, "The Gee Ring Polo Club."

10.55 p.m.—BRUNSWICK CITY BAND, Selection, "Sons of Britannia" (Kimmer).

10.60 p.m.—Announcements, etc. Sporting results.

11 p.m.—OUR GREAT THOUGHT.

"We are in the presence of choir/queens, altogether cast, exhibition is power of endurance." Carlyle.

11.01 p.m.—ELO MELODY MASTERS, "Where'd you Get Those Eyes," "Prisoner's Song," "My Girl's Got Eye Trouble," "Just a Bird's Eye View," "I'll Climb the Highest Mountain," "Lay me Down Beneath a Rose."

11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

MORNING SESSION.

11.40 a.m.—British Official Wireless Press, received from Rugby, some Wireless Station, England. Express train information, "Age" news Bulletin, exclusive to 3AR.

12.10 a.m.—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.

12.50 p.m.—Stock Exchange news. Market reports. Foreign Exchanges of the world, supplied by the courtesy of Messrs THOS. BLOK & SONS.

12.55 p.m.—Musical Selections.

1.00 p.m.—Mail Notes. Shipping movements.

1 p.m.—Close down.

AFTERNOON SESSION.

MOONIE VALLEY RACING CLUB.

2 p.m.—Description Tweedside Hurdle, 2 miles.

2.30 p.m.—Description Niddrie Handicap, 6 furlongs.

STUDIO QUARTETTE: "That's why I Love You" (Donna Juan Alless).

3 p.m.—Description William Reid Stakes, 6 furlongs.

STUDIO QUARTETTE: "Sunshine" (Kearney Collins). "La Rosita" (Osborne Fox).

4.10 p.m.—Description Wooreck Highweight Handicap, 6-furlongs.

STUDIO QUARTETTE: "Morning Glories" (Raymond Fox).

4.40 p.m.—Time Signal Chime from G.P.O. and Weather forecast.

STUDIO QUARTETTE: "Ave Maria" (Bach-Gounod Metral).

5.00 p.m.—Description Calderhead Handicap, 1 1/2 miles.

STUDIO QUARTETTE: "O, So! So! Serenade" (D) Gunn (Herald). "Selections from 'The Pink Lady'" (Curry) (Chappell).

4.50 p.m.—Description Cammellian Trial Handicap, 1-mile.

4.60 p.m.—Evening Amusement quiz. Study Barometer and outdoor Thermometer readings.

5 p.m.—Time Signal Chime from G.P.O. Close down.

EARLY EVENING SESSION.

6.45 p.m.—CHILDREN'S CORNER. UNCLE MAC.

EVENING SESSION.

8 p.m.—Time Signal Chime from G.P.O. Studio Barometer and Outdoor Thermometer readings. British Official Wireless Press. Final Sporting news. Local news.

8.40 p.m.—DANCE SQUAD, "THE RHYTHMIC DANCE ORCHESTRA, released from the MAISON-DE-LUXE, Woodend. Latest news under the leadership of Mr. GEORGE LEWIS.

8.50 p.m.—Weekend Travellers' information, supplied by courtesy of Victorian Railways Department and Melbourne Metropolitan Tramways Board.

9.00 p.m.—MAISON-DE-LUXE RHYTHMIC DANCE ORCHESTRA.

10 p.m.—Time Signal Chime. Studio Barometer and Outdoor Thermometer readings.

10.5 p.m.—MAISON-DE-LUXE RHYTHMIC DANCE ORCHESTRA.

11 p.m.—Time Signal Chime from G.P.O. Close down.

4QG, BRISBANE

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

6.25 p.m.—Time in.

5.10 p.m.—A Motion for little listeners by "Miss Waratah."

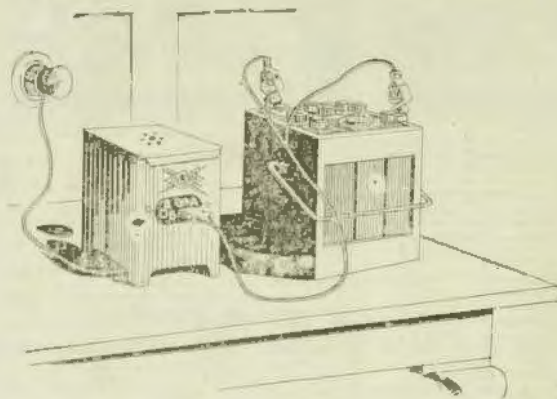
5.30 p.m.—Close down.

EARLY EVENING SESSION.

6.25 p.m.—Time in.

6.30 p.m.—The Children's Session—Stories by "Uncle Ben" and "Uncle Jim."

7.15 p.m.—Sporting News.



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NIGHT SESSION.

8.8 p.m.—Violin Recital. Tonight's programme will comprise a violin recital, relayed from the studio of Mr. Luis Amadeu Pares (The Hall of the Museo, Little Roma Street, Brisbane). Piano solo, "Capriccio" (Wach), Miss Tina Clark; song, "Mary," Mr. A. Pelleck; violin solo, "Intermezzo—Cavatina Postuma" (Albinoni), Master Leslie Chester; flute solo, "Gracioso Dance" (from op. 1, Ferdinand Marshall); song, "Water-moon" (Albion), Mr. W. Shumbar; violin solo, "Gardian" (Monte), Miss Marjorie Cox; humorous recitation, "The Quirrel" (Mendel), Miss Denman; song, "Aria from Der Freischutz" (Weber), Madam Billowa; horn solo selected, Miss Dencie Barrowell; violin solo, "Morceux de Concert" (Mozart), Master Eddie Barby; song, selected, Mr. J. F. Stevens; musical monologue, "Not under a tree" (Bracken), Mr. Harry de Lacey; violin solo, "Ballad Polonaise" (Vieuxtemps), Miss Mevion Wilkin; song, "Dad's Song" (from "La Boheme"), Mr. Hugh Ronald; violin duet, "Serenade" (Widor), Miss Marjorie Cox and Mr. Luis Amadeu Pares; song, selected, Mr. W. Shumbar; flute solo, "Kissing Song" (Blumenthal), Cantin Marshall; song, "Steady" (Wolfevaerff), Madam "Sibby"; piano solo, "Comedy Gardens" (Grainger), Miss Gerlie Anderson; song, selected, Mr. J. F. Stevens; violin solo, "Jota Aragonesa" (Sarasate), Mr. Luis Amadeu Pares.

During the evening, the main motor race at the National Speedway will be described. The actual time will be announced at the commencement of the evening.

10.6 p.m.—From the Studio, "The Sunday Mail" News. Weather News. Close down.

SCL, ADELAIDE

MORNING SESSION.

10.50 p.m.—G.P.O. Chimes.

10.51 p.m.—Studio Orchestra: Overture, "Lorraine"; fox-trot, "Piccadilly"; waltz, "Memory's melody"; saxophone solo, "John Eric"; selection, "The Count of Luxembourg"; chorley, "The water beetle"; one step, "Oh, Charley, take it away"; selection, "Pauzette"; tonic, march, "Boots and saddles."

11.55 p.m.—Ward and Cox's market reports, weather synopsis and station announcements.

12.0 noon.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

12.45 p.m.—Relay from Gawler Racecourse by permission of Gawler Jockey Club. Running description by Mr. Arnold Treloar.

EVENING SESSION.

8.30 p.m.—G.P.O. Chimes.

8.31 p.m.—Stock Day Art number.

8.36 p.m.—Children's Hour. Bedtime stories and nursery rhymes.

7.30 p.m.—Market reports.

7.35 p.m.—Sporting results.

8.0 p.m.—G.P.O. Chimes.

8.1 p.m.—Song, Mr. Harold Tideman.

8.4 p.m.—Instrumental number, Mr. J. Lenthall.

8.7 p.m.—Song, Miss Annie Bonchetti.

8.10 p.m.—Violin solo, Miss Katie Younger.

8.14 p.m.—Song, Mr. James Barrett.

8.17 p.m.—Song, Miss Sylvia Thomas, A.M.U.A.

8.20 p.m.—Instrumental number, Mr. J. Lenthall.

8.24 p.m.—Relay from Floating Palace.

8.43 p.m.—Song, Mr. Harold Tideman.

8.47 p.m.—Violin solo, Miss Katie Younger.

8.0 p.m.—G.P.O. Chimes.

8.1 p.m.—Song, Mrs. Annie Bonchetti.

8.4 p.m.—Relay from Floating Palace.

9.0 p.m.—Song, Mr. James Barrett.

9.21 p.m.—Instrumental number, Mr. J. Lenthall.

9.78 p.m.—Song, Miss Sylvia Thomas, A.M.U.A.

9.79 p.m.—Relay from Floating Palace.

9.85 p.m.—Song, Mr. Harold Tideman.

9.90 p.m.—Violin solo, Miss Katie Younger.

9.97 p.m.—Song, Mr. Harold Tideman.

10.16 p.m.—Relay from Floating Palace.

10.16 p.m.—Saxophone solo.

10.25 p.m.—Flute from Floating Palace.

10.40 p.m.—Song, Mr. James Barrett.

10.43 p.m.—Song, Mr. James Barrett.

10.49 p.m.—Violin solo, Miss Katie Younger.

10.55 p.m.—Song, Miss Sylvia Thomas.

10.58 p.m.—Relay from Floating Palace.

11.0 p.m.—G.P.O. Chimes, National Anthem and close down.

6WF, PERTH

12 noon.—Time in.

12.8 p.m.—Musical programme including pianoforte selections by Miss EVELYN WILLIS, A.R.C.M.

12.41 p.m.—First Local News Bulletin. Market reports. Cable.

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

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

1.2 p.m.—Close down.

2 p.m.—Time in.

2.5 p.m.—Auntie Kate will tell short stories to the kiddies.

3.02 p.m.—Sports results, supplied by courtesy of "The Mirror."

3.35 p.m.—Market reports, Cable, news by courtesy of "The West Australian."

3.41 p.m.—Time signal from the Perth Observatory.

4.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.

5.2 p.m.—"Kerby" and Acts by Mr. and Mrs. F. BARRYFOUR.

5.10 p.m.—Second News Bulletin, supplied by courtesy of "The Daily News."

Sports results supplied by courtesy of "The Mirror."

10.00 p.m.—Close down.

7ZL, HOBART

MORNING SESSION.

11 a.m.—G.P.O. Clock Chimes; the "Mercury" News; Shipping; Commercial Intelligence; Weather Information and Shipping Anticipation; Ships within Wireless Range.

11.05 a.m.—Hobart Stock Exchange Quotations.

11.50 a.m.—Foot Express Information.

12 p.m.—G.P.O. Clock Chimes.

Close down.

EVENING SESSION.

7 p.m.—Children's Corner "Big Brother's" Chats to his pals.

NIGHT SESSION.

8 p.m.—G.P.O. Clock Chimes; the "Mercury" Special Tasmanian News; Services, Railway Auction Proceeds Sales; Weather Information and Sporting Results.

8.0 p.m.—Hobart Stock Exchange Quotations.

8.45 p.m.—Dance Numbers from the Studio.

9.45 p.m.—British Official Wireless News. Contained Direct from Rugby by our own Operator; Weather Synopses; Station Announcements; Salts Within Wireless Range; National Anthem.

Sunday, 23rd January 2FC, SYDNEY

MORNING SESSION.

10.25 a.m.—The Chimes of 2FC and announcements.

10.30 a.m.—Broadcast from Geelong. The Morning Service from St. Xavier's Cathedral. Preacher, the Rev. Archdeacon Ward.

11.40 a.m.—From the Studio. News service.

12.0 p.m.—Close down.

AFTERNOON AND EVENING SESSIONS.

2.30 p.m.—From the Sydney Sports Ground. The Interstate Band Contest. "Quick Step Duplex."

5 p.m.—"Big Ben" and announcements.

6.4 p.m.—From the Studio. A Vocal and Instrumental Recital, arranged by Mr. Maurice Peck.

6.55 p.m.—The Chimes of 2FC and announcements.

7 p.m.—Broadcast from Geelong. The Evening Service from St. Xavier's Cathedral, Geelong. Preacher, the Rev. Archdeacon Ward. Organist and Choirmaster, Mr. Howard Fisher.

8.30 p.m.—From the Broadway Theatre, Geelong. The following programme will be given—

8.30 p.m.—March, "Australasia" (Rimmer), A.I.H. Band.

8.35 p.m.—"Landscape" (Daly), A.I.H. Band.

8.44 p.m.—Chorus, "Worthy is the Lamb" (Hansell), Geelong Choral Society.

8.45 p.m.—Selection, "William Tell" (Rossini), A.I.H. Band.

9.10 p.m.—Songs—
 (a) "Youth" (Adison)
 (b) "Don't Walk and Air"
 "Arms, Arms, Be Brave" (Hansell), Mr. Leslie Cooper.

9.18 p.m.—Descriptive Selections, "The Patrol" (Michell), A.I.H. Band.

9.25 p.m.—Chorus, "O Father, Whose Almighty Power," Geelong Choral Society.

9.30 p.m.—Songs—
 (a) "Sweetest Guard This" (Gosland)
 (b) "O Vision, entrancing" (Thomas), Mr. George Aldrich.

9.40 p.m.—Operatic selection, "Rose Marie" (Feist), A.I.H. Band.

9.50 p.m.—Chorus, "Hallelujah Chorus" (Handel), Geelong Choral Society and A.I.H. Band.

10 p.m.—National Anthem. Close down.

2BL, SYDNEY

10.45 a.m.—Social news service.

11.0 a.m.—Service, broadcast from Chalmers Presbyterian Church.

5.0 p.m.—Concert by Australian Authors and Composers' Association at Turfside House.

10 p.m.—Bible class conducted by Mr. W. "Cherry" Embley.

4.30 p.m.—Glean Recital.

5.0 p.m.—G.P.O. Clock and Chimes. Close down.

5.45 p.m.—Children's service conducted by Uncle George.

7.0 p.m.—Service, Preacher from St. Jude's Church of England, Randwick.

8.30 p.m.—From the Studio: Reminiscences Trip.

8.47 p.m.—Miss Bessie Tarrant, soprano.

8.47 p.m.—Mr. Lance Joffe, tenor.

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3AR, MELBOURNE

5.34 p.m.—Resumé of following day's programme: weather report and forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist.
8.0 p.m.—G.P.O. Clock and Chimes.
8.1 p.m.—Miss Grace Saville, electricianist.
9.2 p.m.—Miss May Nancarrow, contralto.
9.16 p.m.—Mr. Herbert Hinchcliffe, baritone.
9.23 p.m.—Broadcasters Trio.
9.33 p.m.—Miss Jessie Tarrant.
9.40 p.m.—Mr. Lance Joffe.
9.47 p.m.—Miss May Nancarrow.
9.54 p.m.—Miss Grace Saville.
10.1 p.m.—Mr. H. Hinchcliffe.
10.5 p.m.—Broadcasters Trio.
10.15 p.m.—Close down.

3LO, MELBOURNE

MORNING SESSION.

10.30 a.m.—Transmission of the Bells from St. Paul's Cathedral.
10.42 p.m.—British Official Wireless News Announcements.
11.0 a.m.—Morning Service from Australian Church—Dr. Charles Strong.
Opening Voluntary—"Adagio" (Cramer).
Hymn 181 (Church Warship)—"The Day of Light."
Supplement Service.—Morning Prayer.
Church Warship, Chant 19, "The Unsearchable One."
Lesson from Scripture.
Antiphon 47, "Love is of God." (Stainer).
Lesson from Scripture.
Collect and Responses.
Supplementary Lesson from Modern Vision.
Hymn (Supplement 23), "Onward, Upward."
ADDRESS: "Problems of Christian Religion Today."
Hymn (Church Warship), 131, "The Hand of God."
Announcements. Offertory.
Organ Voluntary, "Agnus" (Dupont).
Solo, "The Sorrows of Death, Watchman will the night soon pass" (Mendelssohn).
Benediction and Responses.
Concluding Voluntary "Triumphal March" (Wesbrook).
Organist: Mr. Charles Tuckwell.
Principal: Miss Kitty Conly (Soprano).
Miss Hutton (Contralto).
Mr. Martin (Tenor).
Mr. George Mauer (Bass).
12.15 p.m.—Announcements. Close down.

AFTERNOON SESSION.

3.0 p.m.—PLEASANT SUNDAY AFTERNOON SERVICE, Wesley Central Mission. Chairman, REV. J. H. CAIRN.
Orchestral Selection, Mr. G. M. Williams, Conductor.
Hymn: "O Lord of Heaven and Earth and Sea."
Prayer. Rev. G. Irving Bennett.
Hymn, "Sowing the Seed."
Solo, Mr. J. M. Hill, "Keep on keeping on" (Longstaffe).
Orchestral Selection.
Solo, Mr. J. M. Hill, "The Song of the Clock" (Burchell).
Notices, Offering and Orchestral Selection.
ADDRESS: THE HON. J. F. JONES, M.L.C., "Some Impressions of a European Tour."
National Anthem.
Benediction.
4.15 p.m.—Close down.

EVENING SESSION.

8.00 p.m.—CHILDREN'S HOUR. "The Pied Piper" will sing and play—
Organ, "March."
Hymn, "Day is dying in the West."
Duet, "Softly sighs the voice of evening."
Hymn, "Phlegm's Song."

8.30 p.m.—"BILLY BUNNY" will continue the story of—
"The Christmas Carol."
8.40 p.m.—"THE PIED PIPERS" will give a musical programme.
"Jill through the night" (Welsh Lullaby)
Nursery Rhymes,
"Baby Bye."
"Dim, Dim, Dong Bell."
"Little Miss Muffin."
"Peep, Peep, Bright."
Piano Solo,
"A Little Doll's Dance."
"Singing to the Bells."
"Little Robin Red Breast."
"The Three Crows."
Organ Solo,
"The Red Sarafim."
"Cradle Song."

8.55 p.m.—Answers to letters and birthday greetings by "BILLY BUNNY."
9.00 p.m.—"BILLY BUNNY" will continue the story of "David Livingstone."
9.45 p.m.—Close down.

NIGHT SESSION.

Announcer..... MAURICE DUDLEY
Accompanist..... AGNES FORTUNE
7.0 p.m.—Service from TOORAK PRESBY.
TERIAN CHURCH, Organist and Choir.
Master, Mr. James W. Hudson.
Organ Voluntary.
Introit.
Invention.
Hymn.
Old Testament Lesson.
Prayer.
Praise Chant.
New Testament Lesson.
Solo.
Hymn.
Intimations.
Offertory, Voluntary.
Antiphon.
SERMON.
Hymn.
Benediction.
Vesper.
ORGAN VOLUNTARY

PROM THE STUDIO.

8.30 p.m.—COLLINGWOOD CITIZENS BAND March, "Gladitorial Farewell."
Overture, "Barber of Seville."
8.40 p.m.—VICTORIA WILSON, Soprano, "O del Mio Dolce Amore" (Gluck).
"O del Mio Dolce Amore" (Schumann).
8.47 p.m.—COLLINGWOOD CITIZENS' BAND.
Tone Poem, "Hymn to Music."
Cornet Solo, "Come Sing to Me," L. Barrett.
8.57 p.m.—E. MASON WOOD, Baritone, "Smiling Men," (Fenn).
"Smiling Men," (Fenn).
"Smiling Men," (Fenn).
9.04 p.m.—DON ALFONSO ZELAZO, Famous South American Pianist, "Etude de Concert" (Liszt).
"Capriccio" (Brahms).
" Cuban Song" (Cervantes).
9.10 p.m.—VICTORIA WILSON, Soprano, "If you have naught to say to me" (Fritz Haas).
"Autumn Thoughts" (Grig).
9.26 p.m.—COLLINGWOOD CITIZENS' BAND.
Selection, "Pirates of Penzance."
9.36 p.m.—E. MASON WOOD, Baritone, "Star of Eve" (Tannhauser Wagner).
"O Flower of all the World" (Woodford Finch).
9.43 p.m.—COLLINGWOOD CITIZENS' BAND "Nursery Rhyme" (Cradle Song).
9.50 p.m.—"Arenas" News Service. Announcements.
9.55 p.m.—OUR GREAT THOUGHT.
"it requires less character to discover the faults of others than to tolerate them."
Patri-Sem.
10.0 p.m.—GOD SAVE THE KING.

MORNING SERVICE.

10.30 a.m.—Bells from St. James' Old Cathedral.
11 a.m.—Evening Service from St. James' Church, Latrobe-street, Melbourne. Preacher, Canon Lambie.

AFTERNOON SESSION.

1 p.m.—Mr. E. V. Phillips, tenor.
"Who is Sylvia?" (Schubert).
"Oye Gelsia Muiis" (Puccini).
1.8 p.m.—Miss Margaret Groom, contralto.
"The Shepherd's Cradle Song" (Somerset),
"The Silver Ring" (Chaminade).
2.15 p.m.—Mr. John Ho, baritone.
"The Watchman" (Squire).
"YOUTH" (Allison).
2.30 p.m.—Miss Lorna Hughes, soprano.
"Thank God for a Garden" (Del Began),
"Who sings in Eveson" (Haupt).
3.30 p.m.—Mr. Fred P. Shaw, alto/contralto.
" Sacred Poetry."
3.45 p.m.—Mr. E. V. Phillips, tenor.
"Come Into the Garden, Mand" (Balf).
"The Star" (Roper).
3.48 p.m.—Miss Margaret Groom, contralto.
"New Sleeps On Clombia, Patal" (Quiter),
"The Sweetest Flower that Blooms" (Howler).
3.55 p.m.—Mr. John Ho, baritone.
" Farewell in the Desert" (Adams).
"The Kiltich's Song" (Haupt).
4.1 p.m.—Miss Lorna Hughes, soprano.
"Ave Maria" (Leon Cavalli).
"A String of Pearls" (Phillips).
4.5 p.m.—Mr. Fred P. Shaw, alto/contralto.
" Sacred Poetry."
5.15 p.m.—Close down.

EARLY EVENING SESSION.

8 p.m.—Children's Entertainment by Ladybird.

EVENING SESSION.

8.45 p.m.—The bells from St. James' Old Cathedral.
7.0 p.m.—Evening Service from Independent Church, Collingwood, Melbourne. Preacher, Rev. J. Ernest James, D.D.
8.30 p.m.—Miss Gladys MacDowell, contralto.
"Selected."
8.37 p.m.—Mr. Percy Blundell, tenor.
"Mr. Peuple, Bend Your Back" (Mendelssohn).
" If with all your Hearts" (Mendelssohn).
8.44 p.m.—Miss Lorna Fitzgerald, soprano.
"The Pipes of Pan are Calling" (Mancini).
8.50 p.m.—Miss Lorna Fitzgerald, soprano.
"Al Daring" (Cadenza).
8.57 p.m.—Mr. Frank Thomas, baritone.
"Bedlam Love Song" (Finlay).
9.00 p.m.—Miss Federa Mayson, alto/contralto.
Selections from "Falls of Two Cities" (Dielman).
9.10 p.m.—Miss Gladys MacDowell, contralto.
"Selected."
9.17 p.m.—Mr. Percy Blundell, tenor.
"O Harmonie."
"Have You Seen but a White Lily flower" (Old English).
9.24 p.m.—Mr. Herbert Hutchins will talk on "Mind Auto-Suggestion."
9.28 p.m.—Miss Lorna Fitzgerald, Soprano.
"Red of Red Divine" (Haydn/Wes).
" I Love the Moon" (Paul Rubens).
9.36 p.m.—Mr. Frank Thomas, baritone.
"Tomorrow" (F. Rief).
"Valse" (Krompholtz/Schub).
9.52 p.m.—"Arenas" News Bulletin, exclusive to 3AR.
9.55 p.m.—Close down.

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4QC, BRISBANE

MORNING SESSION.

11.0 a.m.—Church Service. The complete morning service from the Wharf Street Congregational Church will be relayed.

12.30 p.m.—Close down.

AFTERNOON SESSION.

2.15 p.m.—Band Concert. The band concert provided in the Botanic Gardens will be relayed from the bandstand.

4.30 p.m.—Close down.

NIGHT SESSION.

7.0 p.m.—Church Service. The complete evening service from the Wharf Street Congregational Church will be relayed.

4.30 p.m.—Conclusion.

8.10 p.m.—Band Concert. The band concert provided in Wickham Park by the Greater Brisbane Municipal Concert Band will be relayed.

9.30 p.m.—Close down.

SCL, ADELAIDE

MORNING SESSION.

11.9 a.m.—G.P.O. Chimes.

11.1 a.m.—Relay from Flinders Street Church—Divine service.

EVENING SESSION.

6.30 p.m.—G.P.O. Chimes.

6.31 p.m.—Stock Duo Art number.

6.35 p.m.—Children's Hour. Sunday stories.

7.0 p.m.—G.P.O. Chimes.

7.1 p.m.—Divine service relayed from Parkside Baptist Church, Prescher, Rev. Bernard Tucker.

8.5 p.m.—(approx.)—Instrumental concert relayed from S.A.R. Institute. Band numbers by S.A.R. Band, assisted by Mr. Arnold Matfers (haritone), Miss Linda Wald (soprano), and Miss Mary Morgan, accompanist.

8.0 p.m.—Mr. P. H. Niebolls will talk on "Butter."

8.15 Instrumental and vocal concert continued.

10.0 p.m.—National Anthem and close down.

6WF, PERTH

10.45 a.m.—Tune in.

11 a.m.—Morning Service relayed from the Lake Street Church of Christ, Perth. Speaker: Mr. THOS. HAGGER.

3.30 p.m.—Tune in.

3.35 p.m.—R.S.L. Band Concert relayed from the Zoological Gardens, South Perth. Conductor: Mr. GEO. S. MELLOR.

5 p.m.—Close down.

7 p.m.—Tune in.

7.5 p.m.—Children's Bedtime Stories.

7.53 p.m.—Evening Service relayed from the Museum Street Baptist Church, Perth.

8.45 p.m.—Band Concert by the Perth City Band, relayed from the Government Gardens, Perth. Conductor: Mr. W. A. HALVORSEN

Monday, 24th January 2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m.—"Big Ben" and announcements. Message to S.R. "Oronides" will be broadcast.

7.5 a.m.—Music from the Studio.

7.10 a.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.

7.25 a.m.—Investment market, mining share market, metal quotations.

7.35 a.m.—Wool sales, breadstuffs markets, interstate markets, produce markets.

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

8 a.m.—"Big Ben." Music from the Studio.

8.15 a.m.—Close down.

MORNING SESSION.

9.15 a.m.—The Chimes of 2FC.

9.20 a.m.—Music from the Studio.

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

10 a.m.—Late "Sydney Morning Herald" news service.

10.15 a.m.—Music from the Studio, 10.30 Talk by 2FC Racing Commissioner.

10.45 a.m.—A Morning Reading.

11 a.m.—"Big Ben." Australian Press Association and Reuter's Cable Services.

11.40 a.m.—Music from the Studio.

11.55 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben."

12.25 p.m.—Stock Exchange—first call.

12.30 p.m.—Studio Music.

12.45 p.m.—From Farmer's Oak Hall. Instrumental music from the Oak Hall Trio.

12.50 p.m.—From the Studio. Right Wireless News.

1.25 p.m.—"Big Ben." Weather information.

1.3 p.m.—Evening News' today's service. Producers Distributing Society's Report.

1.40 p.m.—From Farmer's Oak Hall. The Oak Hall Instrumental Trio.

1.55 p.m.—Studio Music.

1.40 p.m.—Stock Exchange—second call.

1.42 p.m.—Studio Music.

1.45 p.m.—"Big Ben."

1.50 p.m.—Studio Music.

1.55 p.m.—"Big Ben."

2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

2.30 p.m.—The Chimes of 2FC.

2.35 p.m.—Studio Music.

2.40 p.m.—From Farmer's Oak Hall. Instrumental Trio.

2.40 p.m.—From Farmer's Tea Rooms. Miss Chris Hawkesford, soprano, "Kashmir Song" (Finden).

2.45 p.m.—Instrumental items from the Oak Hall Trio.

2.55 p.m.—Studio Music.

3 p.m.—From Farmer's Tea Rooms. Miss Annie Payne, mezzo, "The Blue Bell" (MacDowell).

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

4.5 p.m.—Studio Music.

4.20 p.m.—From Farmer's Tea Rooms. Miss Chris Hawkesford, soprano, "When Jack and I Were Children" (Lohr).

4.25 p.m.—Instrumental music from the Oak Hall.

4.35 p.m.—Studio Music.

4.40 p.m.—From Farmer's Tea Rooms. Miss Annie Payne, mezzo, "Blissful" (Belletto).

4.45 p.m.—Stock Exchange—third call.

4.46 p.m.—Close down.

EARLY EVENING SESSION.

5.45 p.m.—The Chimes of 2FC and announcements.

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

6.30 p.m.—A serial story for the sister ones.

6.45 p.m.—Dinner Music.

NIGHT SESSION.

7.50 p.m.—From the Sydney Sports Ground. The interstate Band Carnival, "B" Grade. The following extracts will take part:—
Boatley
Parramatta.

Abermule.
Calcutta.
Murrumbidgee.
Toowoomba Municipal.
Cessnock.
Corralton.
Toowoomba City.
Consett.
Ashfield.
Bayswood.

At intervals during the Band Carnival, the following artists will be heard from the Studio:—

Mr. Robert Turner, who will be heard in the following songs:—
"My Word" (Guy Eden).
"Faciteware" (Weston and Lee).
"When I Was a Boy at School" (Spurr).
"My Only Pal" (Parson).
Miss Ellen Boyd, soprano, will sing:—
"My Dear Love" (Sanderson).
"You Lovely Thing" (Oswald Anderson).
"When All Was Young" (Gould).
"My Ain Folk" (Lennon).

From Waddington's Picture Theatre. King's Cross—items by the orchestra under the direction of Mr. E. J. Roberts.

11 p.m.—"Big Ben" and announcements.

11.5 p.m.—Mr. Len Maurice, baritone, in popular numbers, in conjunction with 2FC Dance Band, conducted by Mr. Eric Pearce. Dance music until midnight.

12 midnight—"Big Ben." National Anthem. Close down.

2BL, SYDNEY

EARLY MORNING SESSION.

7.15 a.m.—G.P.O. Clock and Chimes.

7.16 a.m.—Musical programme from Studio.

7.19 a.m.—Physical training and health exercises.

7.25 a.m.—Hints on health.

7.30 p.m.—Physical training and health exercises.

7.45 a.m.—G.P.O. Clock and Chimes.

7.46 a.m.—Weather report.

7.48 a.m.—Spurring information.

7.50 a.m.—Broadcasters' special news service.

8.0 a.m.—G.P.O. Clock and Chimes. Close down.

MORNING SESSION.

10.0 a.m.—G.P.O. Clock and Chimes.

10.1 a.m.—Weather report.

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

10.20 a.m.—News service from the "Daily Telegraph."

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

11.0 a.m.—G.P.O. Clock and Chimes.

11.1 a.m.—News from the "Daily Telegraph."

11.15 a.m.—Rabbit Market report.

11.17 a.m.—Fish Market report.

11.19 a.m.—Vegetable Market Report.

11.21 a.m.—Fruit Market report.

11.23 a.m.—London Dairy Farm, Egg and Poultry Market report.

11.31 a.m.—Ships in call by Wireless.

11.33 a.m.—Information re interstate and overseas mails.

11.35 a.m.—Shipping information—arrivals and departures.

11.37 a.m.—Weather report.

11.40 a.m.—Women's Session conducted by Mrs. Jordan—Special news.

11.50 a.m.—Mrs. Jordan replies to correspondents.

12.0 noon.—G.P.O. Clock and Chimes.

12.1 p.m.—Talk on "Jam Making" by Mrs. Jordan.

12.25 p.m.—News from the "Sun."

12.30 p.m.—G.P.O. Clock and Chimes.

12.31 p.m.—Sydney Stock Exchange Calls.

12.35 p.m.—Sun Newspapers news service.

12.45 p.m.—Hillier's Instrumental Quartet.

1.30 p.m.—G.P.O. Clock and Chimes.

1.31 p.m.—Weather report.

1.33 p.m.—Sydney Stock Exchange Calls.

1.36 p.m.—News from the "Sun."

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

1.50 p.m.—G.P.O. Clock and Chimes. Close down.

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POOR OLD STATIC!

HE is as popular as a bad apple. If you do cut him out, he just comes back for more.

The list of his offences is growing so fast that he only needs a pair of horns and a tail to fit right into the scheme of things.

Every time a battery runs down or there is a short circuit, or the wave length is wrong, or a crystal set can't hear London, Static gets all the blame. I am really surprised that he hasn't been held responsible for the cut in the cricket bonus!

Why, I even received a letter from an American friend warning me to be careful in filling my tank with "gas" when the mercury is below zero, as Static may cause a spark from the muzzle of the filter.

Well, in the first place, when I want to fill my "tank" with "gas," I always use a clean glass, and anyway I should welcome a solid junk of zero at the present moment.

Just between you and me, most of this Static talk is as intelligent as operating on a schoolboy's tonsils when his stomach is full of green apples. Nine-tenths of the trouble is just plain bad batteries!

It reminds me of a wireless friend who was everlastingly cursing old Static because his wireless substituted crackles for Uncle George or the Rev. Ruth. One day he read a Philco Battery ad. in "Wireless Weekly," economised on the wedding anniversary, and gave his radio set a chance.

The last time I saw him he was talking Philco batteries to the rent collector, and actually keeping him interested. Any battery which will soothe a rent collector must be worth the money!

If you want the best rechargeable battery on the market, one which will give you two hours joy a night for about four months, and then come up fresh as paint after a two shilling recharge, I recommend the new 83X Drynamic Philco, which is specially designed for Super-Hets and other sets having four or more valves.

But if you want something cheap and crackly—a metaphorical tin can to tie onto Static's tail—don't touch a Philco 83X. It isn't cheap, and it never crackles, but it will save you pounds in the first year.

Ring up New System Telephones Pty. Ltd., 280 Castlereagh Street, Sydney, and just say "83X." They will do the rest.

And quit blaming poor old Static!*

AFTERNOON SESSION.

- Having Information broadcast by courtesy of the Sun.
- 4.0 p.m.—G.P.O. Clock and Chimes.
- 4.1 p.m.—Weather report and forecast.
- 4.15 p.m.—Serial News from "Sun".
- 4.30 p.m.—"Six" Newspapers news service.
- 4.35 p.m.—Musical programme from the studio.
- 4.40 p.m.—G.P.O. Clock and Chimes.
- 4.45 p.m.—News from the "Sun".
- 4.50 p.m.—Musical programme from the studio.
- 4.55 p.m.—G.P.O. Clock and Chimes.
- 5.0 p.m.—News from the "Sun".
- 5.10 p.m.—Musical programme from the studio.
- 5.15 p.m.—G.P.O. Clock and Chimes.
- 5.20 p.m.—Producers' Distributing Society's vegetable and fruit market report.
- 5.30 p.m.—Shipping information when available.
- 5.35 p.m.—Day's racing resume on race days.
- 5.40 p.m.—News from the "Sun".
- 5.45 p.m.—Resume of night's programme.
- 5.50 p.m.—G.P.O. Clock and Chimes. Close-down.

EARLY EVENING SESSION.

- 5.55 p.m.—G.P.O. Clock and Chimes.
- 5.58 p.m.—Felix George and the Kidkins.
- 6.00 p.m.—Musical programme from the Studio.
- 6.05 p.m.—Australia Mercantile, Land and Finance Co.'s Report.
- Weather report and forecast by courtesy of Govt. Meteorologist.
- Stock Exchange reports.
- Producers' Distributing Society's fruit and vegetable market report.
- Gains and fodder report "Sun".
- Daily trading report "Sun".
- Primary Producers' committee report on the London butter market.
- 7.15 p.m.—Country news from the "Sun".

EVENING SESSIONS.

- 7.15 p.m.—G.P.O. Clock and Chimes.
- 7.20 p.m.—Despatchers' Topical Chimes.
- 8.0 p.m.—Newtown Band broadcast from Industrial Hall, Newtown.
- 8.25 p.m.—Mr. Dan O'Rourke, descriptive vocalists.
- 8.35 p.m.—Madame Phyllis Howe, soprano.
- 8.55 p.m.—Ly and Eric Butterfield, vocal quartet.
- 8.58 p.m.—Mr. Bert Wray, comedian.
- 9.05 p.m.—Resume of following day's programme. Weather report and forecast by courtesy of Mr. E. J. Marrs, Govt. Meteorologist.
- 9.10 p.m.—G.P.O. Clock and Chimes.
- 9.15 p.m.—Miss Mary Neal, Mezzo soprano.
- 9.25 p.m.—Newtown Band.
- 9.28 p.m.—Interval.
- 9.35 p.m.—Ly and Eric Butterfield.
- 9.45 p.m.—Ophelia and Wynne.
- 9.55 p.m.—Madame Phyllis Howe.
- 10.0 p.m.—Miss Mary Neal.
- 10.2 p.m.—The Ambassador's Dance Band broadcast from the ballroom of the Ambassador Hotel. During the intervals between dances, news reports by courtesy of the "Sun" will be broadcast.
- 12 midnight—G.P.O. Clock and Chimes.
- National Anthem.

3LO, MELBOURNE

MID-DAY SESSION

- Accompanied by AGNES FORTUNE.
- Announcer—ALFRED ANDREW.
- 12 noon—Time Signal, British Official Wireless News from Rugby, Bente's and the Melbourne Press Association. Calls "Argus" and "Herald" news services.
- 12.30 p.m.—STUDIO ORCHESTRA.
- "Ballad Egyptian" Part I. (Lumini).
- 12.40 p.m.—THE ROYAL SCOTS.
- "Mr. Bennie Lasswell" (Roy Allan).
- "H. Beale" (Ridgill).

- 12.50 p.m.—Meteorological Information, Stock Exchange Information, Shipping Intelligence. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean Forecast, River Reports.
- 1.0 p.m.—PIPE MAJOR CUNNINGHAM, Bagpipe Selections.
- 1.10 p.m.—PREMIER FOUR, Male Quartet, "High-a-loy", "Gipsy Lullaby".
- 1.15 p.m.—STUDIO ORCHESTRA.
- "A Deep Sea Romance" (Laker).
- 1.25 p.m.—THE ROYAL SCOTS.
- "The same as his father did before him" (Lander).
- "I'm a boogie for you" (Guthway).
- 1.35 p.m.—PIPE MAJOR CUNNINGHAM, Scottish Airs.
- 1.45 p.m.—THE PREMIER FOUR.
- "Grey Days", "It was your hat".
- 1.50 p.m.—STUDIO ORCHESTRA.
- "Ballad Egyptian" Part 2. (Lumini).
- 2.0 p.m.—Close down.

- AFTERNOON SESSION.
- Accompanied, AGNES FORTUNE.
- Announcer, ALFRED ANDREW.
- 2.05 p.m.—STUDIO ORCHESTRA.
- "The Victory" (Morris).
- 2.10 p.m.—MISS FLORA PELL, Supervisor of Domestic Arts, Education Department, Domestic Economy.
- 2.20 p.m.—WALTER SMITH, Cornet, "Solo".
- 2.30 p.m.—HAROLD WALDRON, Is merry moments.
- 2.35 p.m.—STUDIO ORCHESTRA.
- "Serenade" (Musicalized).
- 2.45 p.m.—ALEX. KELLEWAY and ESTELLE ROSE, The Singing Rover and the Charge-ur Impressionist.
- "Auld Acquaintance" (D. J. T.).
- "Friend of Mine" (E. J. T.).
- 2.55 p.m.—MURPHY ROXBURGH, Viola, "Pebble Fugitive" (Bauer).
- 3.0 p.m.—ESTELLE MARR TRIO, Song, "The Greatest Wish in the World" (Del. Hesse).
- Violin, Violoncello (Friedrich-Kubelick).
- "Schon Rosmarin" (Kreutzer).
- Song, "Boating" (Del. Hesse).
- Song, "Follow me in A" (Chapin).
- 3.15 p.m.—STUDIO ORCHESTRA.
- "Spanish Dance" (Musicalized).
- 3.25 p.m.—VICTORIA WILSON, Soprano, "Devotion" (K. Barry).
- "Singing Solo" (Lieder).
- 3.35 p.m.—MRS. DOROTHY SILK, Homocentric.
- 3.45 p.m.—"Herald" news SERVICE. Stock Exchange Information.
- 3.50 p.m.—Close down.

- EVENING SESSION.
- 3.50 p.m.—Answers to letters and Birthdays' messages by "Bookkeepers".
- 4.00 p.m.—MASCOTTE RALSTON.
- "Let's talk about my speech", "After I say 'I'm sorry'".
- 4.15 p.m.—MISS KOOKABURRA, will tell the story of the incident to which she was invited for her version of "Little Red Riding Hood".
- 4.30 p.m.—DAPHNE WHITEHEAD.
- Whistling Solo.
- 4.40 p.m.—MASCOTTE RALSTON.
- "Collegiate".
- "She's everybody's sweetheart", will tell the story of the incident to which she was invited for her version of "Little Red Riding Hood".
- 4.50 p.m.—"Argus" and "Herald" news service. Weather and Aerial Mail information by the Victorian Aerial Services Ltd.
- 5.00 p.m.—Stock Exchange information. Dress-wear shipping.
- 5.05 p.m.—Fish market reports by J. R. Barrett, Ltd.
- 5.10 p.m.—Rivoli reports.
- 5.15 p.m.—Market reports by the Victorian Producers Co-operative Co. Ltd., Maximum sleep order. Pottery, Grain, Chaff, Hay, Straw, Lard, Dairy Produce, Poultry and Oysters.
- 5.20 p.m.—Market prices of Oranges and Lemons, by the Victorian Central Citrus Association Pty. Ltd.

NIGHT SESSION.

- Accompanied, AGNES FORTUNE.
- Announcer, MAURICE DUDLEY.
- 7.15 p.m.—Under the auspices of the Boy Scouts' Association, COMMISSIONER C. STEVENS, "Lessons from the Tasmanian Carabosse".
- 7.30 p.m.—Under the auspices of the Australian Natives' Association, Mr. R. G. RITCHIE, "A.N.A. Charity Carnival".
- 7.45 p.m.—Under the auspices of the Department of Agriculture, Mr. B. P. KRONE, Fruit Packing Instructor, "Fruit Packing and Packing".
- 8.0 p.m.—STUDIO ORCHESTRA.
- "Haywood Overture" (Thomas).
- 8.10 p.m.—E. MASON WOOD, Baritone, "Prologue", "I Pailliere" (Leconvallet), "Grande Song" (Wallace).
- 8.15 p.m.—AUSTRALIAN LADIES' PIPE BAND.
- "Highland Reel".
- Pipe Solo, "Native Highland Home" by Pipe Solo, "Native Highland Home" by Pipe Solo, "Native Highland Home" by Pipe Solo.
- 8.25 p.m.—A few merry moments with HAROLD WALDRON.
- 8.35 p.m.—STUDIO ORCHESTRA, "Finale" from "Farewell Symphony" (Haydn).
- 8.45 p.m.—ALEX. KELLEWAY and ESTELLE ROSE, The Singing Rover and the Charge-ur Impressionist.
- "Son of Mine", "Shirley A. & I", "Oh, if you ever get married", "Oh take her back".
- 8.50 p.m.—AUSTRALIAN LADIES' PIPE BAND.
- Highland Airs.
- 9.0 p.m.—THE MONKEY'S PAW. A story in three scenes by W. W. Jacobs. Dramatized by Louis N. Parker. Characters in the order of their speaking—MR. WHITE, MRS. MAURICE DUDLEY, HERBERT MARR, MRS. MASON WOOD, MRS. WHITE, MRS. MAURICE DUDLEY, SERGEANT MAJOR MORRIS.
- MR. SIMPSON, ALFRED ANDREW, "The Living Room of an old Fashioned Cottage on the outskirts of Fulham, London, Time.
- Scene 1.—Night. Storm raging outside. Scene II.—Next Morning.
- Scene III.—Night. Tea. Later.
- Produced by ALFRED ANDREW.
- (Distances are advised to "PUT OUT THEIR LIGHTS AND LISTEN")
- 9.40 p.m.—THE ESTELLE MARR TRIO, Song, "Thank God for a Garden" (Del. Hesse).
- Piano, "Polish Dance" (Schwarzenka).
- Song, "Come Back" (Gallier).
- Violin, "Nostalgia in E. Flat" (Chopin-Savanne).
- 10.0 p.m.—British Official Wireless News from Rugby. Announcements.
- 10.10 p.m.—MASCOTTE RALSTON, Baritone.
- "Don't be a fool, you fool", "Six Feet of Papa".
- 10.15 p.m.—MORANA LUO DUG, "Hello Aloha", "Ten Days Later", "Hargolona", "Hawaiian Melody".
- 10.25 p.m.—E. MASON WOOD, Baritone, "Song of the Tasmanian Carabosse" (Hesse).
- "The Garden of Allah" (Marshall).
- 10.35 p.m.—ALLO Melody Masters, "Pleading Eyes", "Swallow Eyes".
- 10.45 p.m.—MASCOTTE RALSTON, Baritone.
- "Sweet Child", "While the years go drifting by".
- 10.55 p.m.—"Argus" news service. Weather forecast. Announcements.
- 11.0 p.m.—OUR GREAT THOUGHT, Character in the diamond that scratches away stone (Herald).
- 11.10 p.m.—HAROLD MARR, Baritone, "Pardon".
- "Honey Bunch", "While the years go drifting by", "Twilight".
- 11.30 p.m.—GOD SAVE THE KING.

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3AR, MELBOURNE

4QG, BRISBANE

5CL, ADELAIDE

MORNING SESSION.

MIDDAY SESSION.

MORNING SESSION.

11.30 a.m.—British Official Wireless Press received from Early Paper Wireless Station, England. Express train information. "Ace" News Bulletin, exclusive to 3AR.
12.00 a.m.—Time Signal.
12.05 a.m.—First weather report.
12.10 a.m.—Studio Barometer and Outdoor Thermometer readings.
12.15 p.m.—Musical Selections from the Studio.
12.30 p.m.—Stock Exchange news. Market reports.
12.40 p.m.—Musical selections.
12.55 p.m.—Shipping movements. Mail notes.
1 p.m.—Close down.

12.25 p.m.—Time-signal.
12.30 p.m.—Time Signal.
1.0 p.m.—Market reports. Weather information supplied by the Commonwealth Weather Bureau. News supplied by "The Daily Mail" and "The Daily Standard."
1.10 p.m.—From Hotel Carlton. Lunch music from the Lounge, Hotel Carlton, played by Hotel Carlton Symphony Orchestra.
1.15 p.m.—Close down.

11.35 a.m.—G.P.O. Chimes.
12.05 a.m.—Ninet. Duo Ari number.
12.40 a.m.—"Advertiser" news service.
12.55 a.m.—Vacation number.
1.0 p.m.—G.P.O. Chimes.
12.1 p.m.—"Advertiser" news service.
12.10 a.m.—Stock. Duo Ari numbers.
12.30 p.m.—Studio Orchestra Selection. "Deem me a night" waits. "What did I do to you?" for test. "Araby" (Lindsay). "Ripe and fragrant." "Lestiny" selection. "The lady" organ solo. "Song of the Ptolemaic" public festival. "Rising" "Rising melody."
1.05 p.m.—Wart and Co's Stock Exchange report, official weather synopsis and station announcements.
1.20 p.m.—G.P.O. Chimes.

AFTERNOON SESSION.

AFTERNOON SESSION.

AFTERNOON SESSION.

Richmond Treat. Results after each race, and at half hourly intervals.
2.30 p.m.—Mr. Bert ...
"Souvenir de Sorrento" (Pachini).
"Large" from the New World Symphony (Dvorak-Kreutzer).
2.57 p.m.—The Melbourne Piano Trio "Sole Memento" (Friml).
3.25 p.m.—Miss Rita Gibson, Soprano. "I Know a Lovely Garden" (D'Almeida). "Love Game" (Linn).
3 p.m.—Mr. Ronald Dearnley, (singer). "Songs My Mother Taught Me" (Dvorak). "Large" (Hainich).
3.7 p.m.—The Melbourne Piano Trio Selections from "Mendelssohn's Melodies."
3.23 p.m.—Miss Rita Gibson, Soprano. "Hole Home" (Homer).
3.35 p.m.—Miss Rita Gibson, Soprano. "I Know a Lovely Garden" (D'Almeida).
3.40 p.m.—Melbourne Piano Trio Selections.
4 p.m.—Time Signal. Chimes G.P.O. Second weather forecast.
Selections by the Melbourne Piano Trio.
4.55 p.m.—Evening Chimes G.P.O. Studio Barometer Reading. Close down.

3.50 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."
4.50 p.m.—Close down.

3.8 p.m.—Relay from Maple Leaf Cafe—Orchestra numbers.
3.45 p.m.—From Studio—Vacation and Stock Duo Ari numbers.
4.0 a.m.—G.P.O. Chimes.
4.1 p.m.—Relay from Arctica Cafe—Orchestra numbers.
4.35 p.m.—Stock Exchange reports. Station announcements. "Lestiny" selection.
4.50 p.m.—G.P.O. Chimes and close down.

EARLY EVENING SESSION.

EARLY EVENING SESSION.

EVENING SESSION.

6.45 p.m.—Children's Corner. Uncle Ned.

6.0 p.m.—News Service supplied by the "Daily Standard."
6.05 p.m.—Bed-time Stories by "The Queensland."
6.0 p.m.—Market Reports. Lullaby. "Pig Club for Love and Gift" —Mr. E. J. Chilton, Instructor in Pig Raising.
7.0 p.m.—Stock Reports. Announcements. Weather News.

6.30 p.m.—G.P.O. Chimes.
6.32 p.m.—The "On Air's" Hour—Bedtime stories, nursery rhymes.
7.35 p.m.—Market reports. G. C. Ward and Co., Adelaide and Co., A. W. Beedford, A. K. Hall, S. K. Farmer's Union.
7.40 p.m.—Market forecast talk by Mr. van Zeeb, under the auspices of the Mr. Preston-Johnson, automotive equipment of the Varcom Oil Co.
8.0 p.m.—G.P.O. Chimes.

EVENING SESSION.

NIGHT SESSION.

EVENING SESSION.

7.45 p.m.—British Official Wireless Press Studio Barometer Readings.
8 a.m.—Mr. Milo Davine, baritone. "Bedtime Love Song" (Pianetti).
"Maie of Mine" (Elliott).
8.7 p.m.—Miss Josie Kern, mezzo. "Serenade" (Schubert).
"The Fair Tales of Ireland" (Coates).
8.14 p.m.—Leggatt's Ballroom Orchestra.
8.30 p.m.—Mr. A. J. Sullivan, talk. "What distinguished visitors have read about Australia and Australians."
8.45 p.m.—Leggatt's Ballroom Orchestra.
9 p.m.—Mr. Will Phillips, tenor. "Love, Love of Mine" (Edward Wall).
"Lassie of Mine" (Edward Wall).
9.7 p.m.—Mr. Thomas Miller, Scotch character comedian. "Jean Macfie" (Miller).
9.14 p.m.—Leggatt's Ballroom Orchestra.
9.30 p.m.—Mr. Milo Davine, baritone. "The King's Minister."
"If I Built a World for You" (Lehmann).
9.37 p.m.—Miss Josie Kern, mezzo. "Carissima" (Fern).
"Home Sweet Home" (Bishop).
9.43 p.m.—Mr. Will Phillips, tenor. "The Kerry Young" (Molloy).
"Maenahls" (Macmurrough).
9.48 p.m.—Mr. Thomas Miller, Scotch comedian. "Tabernash" (Lauder).
9.52 p.m.—Leggatt's Ballroom Orchestra.
10 p.m.—Time Signal. Chime G.P.O. Studio Barometer Reading. "Ace" News Bulletin.
10.7 p.m.—Leggatt's Ballroom Orchestra.
11 p.m.—Time Signal. Chimes G.P.O. Close down.

7.45 p.m.—Lecture Session—Methods of Violin Playing by Mr. H. Scott MacCallum.
8.0 p.m.—Studio Hospital. The first portion of tonight's programme will be provided for the students of the "Studio Hospital."
8.05 p.m.—Soprano solo. "A Summer Night" (Thomas). Miss Audrey Bell, soprano solo. "Summer Rain" (Drummond). Miss Jean Bligh, contralto solo. "Kiss a Lady Goodnight" (O'Hara). Miss Jean Woodroffe, soprano solo. "Ways Song" from "Tom Jones" (Goswami). Miss Bertha Chalk, contralto solo. "Here in the Quiet Hills" (Carson). Miss Suzanne Simpson, Mezzo-soprano solo. "Thoughts From Winter" (Belmann). Miss Mary Martin, tenor solo. "Daddy Horner" (Old English). Mr. Jack Lord, Mezzo-soprano solo. "If My Song were not Winded" (Hahn). Miss Non Shaw, soprano solo. "The Cuckoo" (Lehmann). Mrs. Midge Davies, vocal trio. "Hill Thine Eyes" (Mandelstam). Miss J. Bligh, A. Bell and G. Martin, mezzo-contralto solo. "O Lovely Night" (Ronaldi). Miss Olive Waterford, mezzo-soprano solo. "To Music" (Schubert). Miss Pearl Gee, mezzo-contralto solo. "Rita's Song" (Widmark). Miss Lilian Martin, baritone solo. "The Shepherd" (MacMurrough). Mr. G. J. Athlow, mezzo-soprano solo. "Dare to Wings" (Phillips). Miss Geri Martin.
8.0 p.m.—Metropolitan Weather Forecast.
8.05 p.m.—"Auntie" Gagner, Trio (Gardner). Miss Dixie Elder, mezzo-soprano solo. "Dare to Love You" (Drummond). Miss Corolla Winks, vocal trio. "The Onys are Lightly Sailing" (Gabel). Miss Pearl Gee, J. W. Smith and J. Simpson, vocal group solo. "Song of the Little Fall" (Coates). Miss Pearl Gee, vocal solo. "What a Wonderful World it Would Be" (Lynch). Miss Leta Insley, soprano solo. "Fox Pantomime" (Anthony). Miss Hazel Miles, baritone solo. "The Yeoman's Wedding" (Zionistowski). Mr. W. Johnson, mezzo-soprano solo. "Ye Banks and Breas." (O'Connell). "Sweet Spring Flowers" (Whitler), the Student.
8.30 p.m.—From the Crystal Palace. Half an hour's Dance Music.
9.0 p.m.—From the Studio. "The Daily Mail" News. Weather News. Close down.

8.0 p.m.—Relay from Arctica Cafe—Orchestra numbers.
8.05 p.m.—G.P.O. Chimes.
8.1 p.m.—G.P.O. Chimes.
8.4 p.m.—Violin solo, Miss Lilette Foglia.
8.8 p.m.—Song, Madam Dorothy Back.
8.11 p.m.—Humorous vocal, Mr. Athol Lykke.
8.17 p.m.—Contralto solo, Miss Margaret Park.
8.21 p.m.—Quartette (Jenny), the Radio Quartette.
8.24 p.m.—Talk by Dr. Herbert Basford, M.A.
8.28 p.m.—Song, Mr. B. Reid.
8.44 p.m.—Violin solo, Miss Lilette Foglia.
8.47 p.m.—Violin solo, Miss Lilette Foglia.
8.51 p.m.—Tenor solo, Mr. L. Mincks.
8.55 p.m.—Instrumental number, Mr. J. Lent-hall.
8.58 p.m.—Dumbet's wheat report.
9.0 p.m.—G.P.O. Chimes.
9.1 p.m.—Weather report.
9.3 p.m.—Dr. Madam Dorothy Back and Mr. E. Wilsdon.
9.8 p.m.—Humorous impressionist, Mr. Athol Lykke.
9.12 p.m.—Song, Miss Margaret Park.
9.16 p.m.—Instrumental number, Mr. J. Lenthall.
9.20 p.m.—Solo, Mr. B. Reid.
9.34 p.m.—Violin solo, Miss Lilette Foglia.
9.38 p.m.—Tenor solo, Mr. L. Mincks.
9.51 p.m.—Musical monologue, Mr. Athol Lykke.
9.55 p.m.—Quartette Radio Quartette Party.
9.59 p.m.—Instrumental number, Mr. J. Lenthall.
1.0 p.m.—Song, Madam Dorothy Back.
9.47 p.m.—Pianoforte solo, Miss Luce Foglia.
9.52 p.m.—Solo solo, Mr. Eric Wilsdon.
9.55 p.m.—Musical monologue, Mr. Athol Lykke.
10.0 p.m.—G.P.O. Chimes.
10.1 p.m.—Song, Miss M. Pirie.
10.3 p.m.—Instrumental number, Mr. J. Lenthall.
10.8 p.m.—Song, Mrs. B. Reid.
10.15 p.m.—Tenor solo, Mr. L. Mincks.

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10.15 p.m.—Advertiser's general news service.
 10.30 p.m.—Quartette. Radio Quartette quartet.
 10.34 p.m.—Violin solo, Miss Luedie Eglin.
 10.38 p.m.—Song, Madame Dorothy Bark.
 10.42 p.m.—Instrumental number, Mr. J. Lent.
 10.45 p.m.—Close down.
 10.48 p.m.—Rena solo, Mr. E. Wickens.
 10.50 p.m.—Contralto, solo, Miss Margaret Pirie.
 10.54 p.m.—Tenor solo, Mr. L. Mincks.
 10.58 p.m.—Station announcements.
 11.0 p.m.—G.P.O. Chimes, National Anthem and close down.

6WF, PERTH

12.30 p.m.—Tune in.
 12.35 p.m.—First Light News Bulletin. Market reports, Cables, Western Australia.
 1 p.m.—Time Signal from the Perth Observatory.
 1.1 p.m.—STUDIO QUARTETTE
 2 p.m.—Close down.
 2.30 p.m.—Tune in.
 2.35 p.m.—Musical programme.
 4 p.m.—STUDIO TRIO.
 4.30 p.m.—Close down.
 7 p.m.—Tune in.
 7.15 p.m.—Romance Stories by Uncle Perry and Duffy.
 7.30 p.m.—Stock and Share Intelligence. Market reports, Cables, news by courtesy of the West Australian.
 8 p.m.—Time Signal from the Perth Observatory.
 8.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
 8.2 p.m.—Beeskeeping Talk by Mr. W. A. Wall, show, under auspices of the Bee-keepers' Association.
 8.55 p.m.—Concert by the E.S.L. Band. Conductor: Mr. W. A. HALVORSEN. March: "Underhill House" (Herald). Valce: "Gipsy Love" (Lazarus). Fox Trot: "That Meaning Sashophone" (Cook) Selection: "Yes, Uncle" (Ayer). Popular: "I'm Sitting on Top of the World" (Henderson). Selection: "Carmen" (Blasi). Jazz: "Big Heck" (Hickey). March: "British Legion" (Hindgood).
 9.50 p.m.—"Health" Talk by Mr. H. S. Hutton, of the Hutton School of Physical Culture.
 10 p.m.—Second News Bulletin, supplied by courtesy of "The Daily News."
 10.30 p.m.—Close down.

**Tuesday, 25th January
 2FC, SYDNEY**

EARLY MORNING SESSION.

7 a.m.—"Big Ben" and announcements. A message to the S.S. "Orama" will be broadcast.
 7.5 a.m.—Music from the Studio.
 7.55 a.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
 7.58 a.m.—Investment market, mining share market, metal quotations.
 7.59 a.m.—Wool sales, breadstuffs markets, interstate markets, produce markets.
 7.55 a.m.—"Sydney Morning Herald" news service.
 8 a.m.—"Big Ben." Music from the Studio.
 8.5 a.m.—Close down.

MORNING SESSION.

9.15 a.m.—The Chimes of 2FC.
 9.20 a.m.—Music from the Studio.
 9.25 a.m.—A talk by 2FC. Racing Commissioner.
 10 a.m.—"Big Ben" and announcements.
 10.5 a.m.—Late "Sydney Morning Herald" news service.
 10.55 a.m.—Music from the Studio, 10.30.
 10.45 a.m.—A Morning Reading.
 11 a.m.—"Big Ben." Australian Press Association and Reuters' Cable Services.

11.30 a.m.—Music from the Studio.
 11.35 a.m.—A talk on Home Cooking and Recipes, by Miss Ruth Funn.
 11.50 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Bye Ben."
 12.05 p.m.—Stock Exchange—first call.
 12.16 p.m.—Studio Music.
 12.45 p.m.—From Farmer's Oak Hall, instrumental music from the Oak Hall Trio.
 13.45 p.m.—From the Studio, Rugby Wireless News.
 12.55 p.m.—
 1 p.m.—"Big Ben." Weather information.
 1.1 p.m.—"Evening News" midday service. Producers' Distributing Societies report.
 1.30 p.m.—From Farmer's Oak Hall. The Oak Hall Instrumental Trio.
 1.35 p.m.—Studio Music.
 1.36 p.m.—Stock Exchange—second call.
 1.42 p.m.—Studio Music.
 1.48 p.m.—
 1.50 p.m.—Studio Music.
 1.55 p.m.—
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

2.30 p.m.—The Chimes of 2FC.
 2.35 p.m.—Studio Music.
 3.20 p.m.—From Farmer's Tea Rooms. The Oak Hall Instrumental Trio.
 3.25 p.m.—Studio Music.
 3.40 p.m.—From Farmer's Tea Rooms. Miss Joyce Gillespie, soprano. "Do you know my Garden" (Del Reige).
 3.45 p.m.—The Oak Hall Instrumental Trio.
 3.50 p.m.—Studio Music.
 4 p.m.—From Farmer's Tea Rooms. Miss Kathleen Stollery, mezzo. "Happy Song" (Del Reige).
 4.5 p.m.—From Farmer's Oak Hall. The instrumental Trio.
 4.10 p.m.—Studio Music.
 4.20 p.m.—From Farmer's Tea Rooms. Miss Joyce Gillespie, soprano. "Soul of Miss" (Henderson).
 4.35 p.m.—The Oak Hall Instrumental Trio.
 4.35 p.m.—Studio Music.
 4.40 p.m.—From Farmer's Tea Rooms. Miss Kathleen Stollery, mezzo. "Who Knows" (Ball).
 4.45 p.m.—Stock Exchange—third call.
 4.48 p.m.—Close down.

EARLY EVENING SESSION.

5.45 p.m.—The Chimes of 2FC and announcements.
 5.50 p.m.—The "Hello Max" talks to the children.
 6.30 p.m.—A story for the older ones.
 6.45 p.m.—Dinner Music.
 7.10 p.m.—From the Studio "Evening News" late news service. Weather information.

NIGHT SESSION.

7.30 p.m.—From the Sydney Sports Ground. The Interstate Band Central, A' Grade Contest, with the following orchestral taking part:—
 Charles Towers, Ravelink, Canterbury, Townswoman Municipal, Alhambra.
 7.45 p.m.—"The Great Concert."
 Townswoman City.
 The Band Central will continue until 11 p.m., and during intervals, the following artists will be heard in the Studio:—
 (a) Charles Audbert, soprano, will sing:—
 "You are all that is lovely" (Woodford-Finlay).
 (b) "The Pipet of Love" (Carew).
 (c) "The greatest wish in the world" (Del Reige).
 (d) "The string of pearls" (Phillips).
 Miss Billie Davis, soprano, will be heard in the following numbers:—
 (a) "Some other bird I whistled a tune."
 (b) "Six feet of Paper."
 (c) "Just around the corner."
 (d) "So is your old lady."

Mr. Alec Whitson, baritone:—
 (a) "The Curfew" (Gould).
 (b) "Kitty" (Fletcher).
 (c) "The Blind Proudhman" (Clarke).
 (d) "World that once was a Garden" (Lohr).
 Mr. Harrison White will give Banjo items.
 11 p.m.—"Big Ben" and announcements.
 11.30 p.m.—From the Westworth Town, items by the New Westworth Symphonic Dance Band, under the baton of Mr. Sidney Simpson, until midnight.
 12 midnight.—National Anthem. Close down.

2BL, SYDNEY

EARLY MORNING SESSION.

7.15 a.m.—G.P.O. Clock and Chimes.
 7.16 a.m.—Musical programme from the Studio.
 7.18 a.m.—Physical training and health exercises.
 7.25 a.m.—Hints on health.
 7.30 a.m.—Physical training and health exercises.
 7.45 a.m.—G.P.O. Clock and Chimes.
 7.46 a.m.—Weather report and forecast.
 7.48 a.m.—Sparring information.
 7.50 a.m.—Broadcasters' special news service.
 8 a.m.—G.P.O. Clock and Chimes; close down.

MORNING SESSION.

10 a.m.—G.P.O. Clock and Chimes.
 10.5 a.m.—Weather report and forecast.
 10.5 a.m.—Musical programme from the Studio.
 10.20 a.m.—News service from the "Daily Telegraph."
 10.35 a.m.—Musical programme from the Studio.
 11 a.m.—G.P.O. Clock and Chimes.
 11.10 a.m.—Bullion Market report.
 11.17 a.m.—Fruit Market report.
 11.24 a.m.—Fruit Market report.
 11.32 a.m.—Fruit Market report.
 11.25 a.m.—Report on London Dairy Farm, Eggs and Poultry Market.
 11.25 a.m.—London Metal Quotations.
 11.31 a.m.—Shipments in call by services.
 11.32 a.m.—Information re inter-island and overseas mails.
 11.45 a.m.—Shipping information arrivals and departures.
 11.45 a.m.—Weather report.

WOMEN'S SESSION. conducted by Mrs. JORDON. Social notes.

11.50 a.m.—Mrs. Jordan replies to correspondents.
 12 noon.—G.P.O. Clock and Chimes.
 12.1 p.m.—Talk on "Pilot Hints" by Mrs. Jordan.
 12.20 p.m.—News from the "Sun."
 12.30 p.m.—G.P.O. Clock and Chimes.
 12.31 p.m.—Sydney Stock Exchange daily.
 12.32 p.m.—"Sun" Newspaper news service.
 12.35 p.m.—ILLUSTRATED INSTRUMENTAL QUARTET.
 1.00 p.m.—G.P.O. Clock and Chimes.
 1.31 p.m.—Weather report.
 1.32 p.m.—Sydney Stock Exchange calls.
 1.34 p.m.—News from the "Sun."
 1.45 p.m.—Musical programme from the Studio.
 2 p.m.—G.P.O. Clock and Chimes; close down.

AFTERNOON SESSION.

Reading information broadcast by courtesy of the "Sun."
 2 p.m.—G.P.O. Clock and Chimes.
 2.1 p.m.—Weather report.
 2.5 p.m.—Musical programme from the Studio, under the direction of Miss Kathleen Jordan.
 3.20 p.m.—G.P.O. Clock and Chimes.
 3.21 p.m.—"Sun" Newspaper news service.
 3.45 p.m.—Musical programme from the Studio.
 4 p.m.—G.P.O. Clock and Chimes.
 4.1 p.m.—Civil Service Stores Trio.
 4.16 p.m.—Serial Story.
 4.30 p.m.—Musical programme from the Studio.
 4.45 a.m.—Producers' Distributing Societies' Fruit and Vegetable Market report.
 4.50 p.m.—Shipping information when available.



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Large size, type XP, 42 volt 21/-

4.52 p.m.—Day's racing on race days.
 4.55 p.m.—News from the "Sun."
 4.58 p.m.—Resume of night's programme.
 5 p.m.—G.P.O. Clock and Chimes; ease down.
EARLY EVENING SESSION.
 5.45 p.m.—G.P.O. Clock and Chimes.
 5.46 p.m.—Uncle George and the Kiddies.
 5.49 p.m.—Musical programme from the Studio.
SPECIAL COUNTRY SESSION.
 6 p.m.—G.P.O. Clock and Chimes.
 Australian Mercantile Land and Finance Co.'s report.
 Weather report and forecast.
 Daily Produce Report ("Sun").
 P.Z. Acers' Distributing Society's Fruit and Vegetable Market report.
 Grain and Fodder report ("Sun").
 Dairy Produce Report ("Sun").
 6.15 p.m.—Country news from the "Sun."
 6.30 p.m.—A Talk on the "Motor Car," by Mr. Martin.
 6.45 p.m.—A Talk on "The Tour of the Renewal," by Mr. John Holmes.
 8 p.m.—G.P.O. Clock and Chimes.
Broadcasters' Typical Chorus.
 8.1 p.m.—Bubble Burns Night. Lecture by Mr. David Rogers. Songs by Misses H.-J. McClelland, Myrie Russell, Messrs. Will Perzin, E. Butterworth; Baignep Solos by Payer Keith Clubb. Broadcasters' Miniature Orchestra, under the direction of Mr. J. H. Barrett.
 9.15 p.m.—The Ambassadors Dance Band broadcast from the ballroom of The Ambassadors. During the intervals between dances news reports by courtesy of the "Sun" Newspapers will be broadcast.
 12 midnight.—G.P.O. Clock and Chimes. National anthem.

3LO, MELBOURNE

MID-DAY SESSION.

Announcer, ALFRED ANDREW.
 Accompanist, AGNES FORTUNE.
 12 noon.—Time Signal. British official Wireless news from Rugby. Reuter's and the Australian Press Association Cables.
 "Argus" and "Herald" news services.
 12.30 p.m.—STUDIO ORCHESTRA.
 "Vecchio Minuetto" (Spambali).
 "L'armezzo. Eranzetta" (Hammer).
 12.40 p.m.—LOTTIE DANIELL, Soprano.
 "Una Voce Poco Fa" (Rossini).
 "April Morn'" (Batten).
 12.45 p.m.—Meteorological Information and Stock Exchange Information.
 1.0 p.m.—STUDIO ORCHESTRA.
 "A Hillside Melody" (Phillips).
 1.10 p.m.—ALEC KELLEWAY and ESTELLE ROSE.
 "The Cobbler."
 "Stories A. & B."
 "What happened after the Ball."
 "What a wonderful world it would be."
 1.22 p.m.—C. RICHARD CRUGG, Flute.
 "Joyful" (Kranitz).
 1.27 p.m.—LOTTIE DANIELL, Soprano.
 "Theme and Variations" (Froch).
 "I'll hear the gentle Lark" (Bishop).
 1.34 p.m.—ESTELLE MARK TRIO.
 Vocal. "Bird Songs at Eventide" (Coates).
 Piano. "Romance" (Sibelius).
 Violin. "O' Primrose."
 Piano. "Variations of Theme of Carelli" (Czartski-Kreisler).
 1.47 p.m.—STUDIO ORCHESTRA.
 "Section of Benbach's Opera."
 2.0 p.m.—Close down.
 Results of Cricket Match will be given about every half hour. Victoria v. Tasmania, played at the Melbourne Cricket Ground.

AFTERNOON SESSION.

Announcer, ALFRED ANDREW.
 Accompanist, AGNES FORTUNE.
 2.0 p.m.—WILL PAGE and HIS POPULAR PLAYERS.
 "Tamilian Trial."
 "I'middle class."
 "If you hadn't gone away."
 "Indian dawn."
 2.10 p.m.—"AU FAUT" of Messrs. Buckley and Nunn. Ltd., Fashion Talk.

2.25 p.m.—WILL PAGE and HIS POPULAR PLAYERS.
 "Klasing our baby good-night."
 "No foolin'."
 "It's a good thing cows can't fly."
 "I can't forget."
 2.35 p.m.—TIP PREMIER FOUR.
 "Mickey Blue."
 2.38 p.m.—WILL PAGE and HIS POPULAR PLAYERS.
 "Prentending."
 "Jackson Blues."
 "Blackie Stone."
 2.49 p.m.—TIP PREMIER FOUR.
 "Twee-ahka."
 2.57 p.m.—WILL PAGE and HIS POPULAR PLAYERS.
 "Perhaps you'll think of me."
 "Twee-ahka."
 "Night."
 "Oh! How I've Wanted for You."
 3.0 p.m.—TIP PREMIER FOUR.
 "Midnight Waltz."
 3.15 p.m.—WILL PAGE and HIS POPULAR PLAYERS.
 "Eighteenth St. Street."
 "Blowing off steam."
 "A little nightie hanging on the line."
 "Wine-o."
 3.23 p.m.—TIP PREMIER FOUR.
 "Just around the corner."
 3.27 p.m.—WILL PAGE and HIS POPULAR PLAYERS.
 3.45 p.m.—Herald News Service. Stock Exchange Information.
 3.0 p.m.—Close down.

EVENING SESSION.

9.40 p.m.—CHILDREN'S HOUR. Answers to letters and holiday creations.
 9.55 p.m.—R.G. BRADLEY & THE STUDIO ORCHESTRA.
 "Children's Overture" (Quilter) (PART 1).
 9.55 p.m.—"MARY GUMLEAF" Poems.
 "Four Little Larks on the Hodpost."
 "Aunt with Jane."
 Story for Girls. "Little One."
 10.12 p.m.—HAROLD WALBORN wants to Make You Laugh.
 10.18 p.m.—STUDIO ORCHESTRA.
 "Children's Overture" (Part 1).
 10.28 p.m.—"MARY GUMLEAF" Story for the Boys and Girls.
 "The Dearest Friend."
 10.33 p.m.—"Argus" and "Herald" news services. Weather information. Aerial Mail Information by the Australian Aerial Services, Ltd.
 10.41 p.m.—Stock Exchange Information. Shipping Overseas.
 10.52 p.m.—Fisk Market Reports by Mr. J. B. Barrett, Ltd.
 10.55 p.m.—River Reports.
 10.58 p.m.—Market reports by the Victorian Producers Co-operative Co. Ltd. Hoxmarket sheep sales. Pottery, Grain, Chat, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market prices of Oranges and Lemons by the Victorian Central Citrus Association Pty. Ltd.

NIGHT SESSION.

Announcer, MAURICE DUDLEY.
 Accompanist, AGNES FORTUNE.
 7.15 p.m.—Under the auspices of the Royal Automobile Club of Victoria. MR. H. J. REAN, Member of the Committee of the Royal Automobile Club of Victoria.
 "Traffic from the Motorist's Viewpoint."
 7.30 p.m.—Under the auspices of the University Extension Board. ACTING PROFESSOR G. L. WOOD, will Lecture.
 7.45 p.m.—DR. LUTFUS HILLS.
 "Popular Science."
"BOBBIE BURNS" NIGHT.
 8.8 p.m.—BRUNSWICK CITY BAND.
 Selection "Songs of Scotland." (Round)
 8.10 p.m.—THE ROYAL SCOTTS.
 "Queen Among the Heather." (Lauder)
 "Blue Balls of Scotland." (Fletcher)
 8.20 p.m.—AUSTRALIAN LADIES PIPE BAND.
 Pips Solo. "Marchioness of Tallbarrine."
 by Pipe-Major Dolly McPherson.
 Selections. Full Band.

8.30 p.m.—MISS EILEEN ELZA HARPER, the BLO GIRL, will talk to you for five minutes.
 8.35 p.m.—J. ALEXANDER BROWNE, baritone.
 "The Star of Bobbie Burns." (Hoath)
 "Burdie Baided." (Cowan)
 8.42 p.m.—HAROLD WALBORN'S merry moments.
 8.48 p.m.—FREDA NORTHCOTE, contralto.
 "Annie Macdonald."
 "Annie Laurie."
 8.57 p.m.—J. HOWLETT ROSS.
 "Bobbie Burns."
 9.07 p.m.—AUSTRALIAN LADIES PIPE BAND.
 "Highland Reel."
 "Lullalullas."
 9.20 p.m.—THE ROYAL SCOTS.
 "The Highland Poets."
 "Home O Mine."
 9.49 p.m.—J. HOWLETT ROSS in Selections from Burns.
 9.59 p.m.—DON ALFONSO ZELAGA, Famous South American Pianist.
 "Valse Chromatique." (Chaminade)
 "Lullabernstein."
 10.0 p.m.—British Official Wireless News from Rugby. Sporting notes by "OLYMPUS."
 10.10 p.m.—J. ALEXANDER BROWNE, baritone.
 "The Hundred Pipers."
 "Gotta who Han."
 10.15 p.m.—BRUNSWICK CITY BAND.
 Cornet Duets. "O Wert Thou to the Cold Hills."
 "March—The Old Folks."
 10.27 p.m.—FREDA NORTHCOTE, Contralto.
 "Jack Lomond."
 "Down the Burn."
 10.44 p.m.—"Argus" news service. Weather forecast.
 10.44 p.m.—BLO MELODY MASTERS.
 Festival. "There's a Boatman on the Volga."
 "Hi Ho the Merry."
 "Rose of Japan."
 11.0 p.m.—OUR GREAT THOUGHT.
 "Nothing Great was ever Achieved Without Enthusiasm."
 11.01 p.m.—BLO MELODY MASTERS.
 "Felix Sunday."
 "My Girl has Eye Trouble."
 "Hinky, Moon Bay."
 "Did I climb the Highest Mountain."
 "Wally, There Never was a Pal Like You."
 11.40 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

MORNING SESSION.

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. Studio barometer and outdoor thermometer readings. First weather report. Events of the day.
 12.5 p.m.—Musical selections.
 12.30 p.m.—Stock Exchange news. Market reports.
 12.40 p.m.—Musical selections.
 1.25 p.m.—Shipping and mail news.
 1 p.m.—Close down.

AFTERNOON SESSION.

2.30 p.m.—Miss Molly Locke, entertainer at the piano. "The Last My Bug." "I Couldn't Help It. Could I?" Child impersonation.
 2.37 p.m.—Mr. Allan Russell, tenor.
 "Can't You Hear Me Calling, Caroline?" (Caro Roma).
 "What a Wonderful World it Would Be" (Loehr).
 2.44 p.m.—One Act Play, in two scenes, "Suppressed Desires" (Gusset Glaspeil), George Graham Cook.
 Characters—Stephen Brewster, an architect, Mr. E. Howard Symonds, Henrietta, his wife, Miss Molly Locke, Mabel, his sisters-in-law. Miss Ruby May.

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NIGHT SESSION

Seeps.—Breakfast room in Stephen Brewster's home between 10.15 and 11.00 and since 2 an interval of two weeks is supposed to have elapsed.

1.10 p.m.—Mr. Allan Russell, tenor.
 "When You Come to Me" (Martini).
 "I Love You Calling Me" (Marshman).
 1.40 p.m.—Miss Molly Lusk; sang at the piano, "My Gal Sal".
 4.00 p.m.—Studio Quartette Selections.
 4.40 p.m.—Evening Amusement Guide.
 5 p.m.—Time Signal Chimes. Studio barometer readings. Clear down.

EARLY EVENING SESSION.

6.45 p.m.—Children's Crooner. Uncle Mac.

EVENING SESSION.

7.45 p.m.—British Official Wireless Press. Studio barometer and outdoor thermometer readings.

8.00 p.m.—The Minnetta Trio.
 Trio from "Chu Chin Chow" (arr. by Norriss).
 "Waltz Habetski" (Nichols).
 8.15 p.m.—Miss Marion Daniels, soprano.
 "A Rosebud by My Early Walk" (Berke).
 "Hush-a-lu Birdie" (Guten).
 8.32 p.m.—Mr. Robert Lane, R.V., secretary, Melbourne University, will have some items of interest in regard to "Australian Citizenship".
 8.47 p.m.—Miss Grace Seaton, mezzo, contralto.
 "Danny Boy" (Weatherly).
 "Cloths of Honor" (Dorbell) in concert.
 8.45 p.m.—Miss Dunlop Batten, violinist.
 "Liltsfeld" (Kreuder).
 "Serenade" (Herbert).
 9.02 p.m.—Miss Mabel Powers, alto-soprano; soprano from "The Whetley of Time".
 "The Last Hall Hour."
 9 p.m.—"Hooks, Men, etc's Talk w/ Burns." Donald Cameron, chief of club, will sing, talk and recite about "Bolshevik Burns".
 9.23 p.m.—Miss Marion Daniels, mezzo, contralto.
 "O Western Wind" (Brace).
 "Mighty like a Rose" (Gavin).
 9.30 p.m.—Miss Gerrie Lee, pianist, will entertain you with her little ballad.
 9.35 p.m.—Maidie Towers, chortolant.
 "The Sphinx and the Woman".
 "Reading under Difficulties".
 9.45 p.m.—The Minnetta Trio.
 "Gipsy Song" (Mortini).
 The latest popular numbers.
 10 p.m.—Time Signal Chimes G.P.O. Studio barometer readings. "Age" News Bulletin.
 10.10 p.m.—Loughe's Ballroom Orchestra.
 11 p.m.—Time Signal Chimes G.P.O. Close down.

6WF, PERTH

12.30 p.m.—Time in.
 12.35 p.m.—First Local News Bulletin. Market reports. Cables.
 1 p.m.—Time Signal from the Perth Observatory.
 1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
 1.3 p.m.—STUDIO TRIO.
 1.40 p.m.—Close down.
 1.50 p.m.—Time in.
 1.55 p.m.—Musical programme, including piano selections by Miss EVELYN WILLIS, A.R.C.M.
 4 p.m.—STUDIO TRIO.
 4.30 p.m.—Close down.
 5 p.m.—Time in.
 5.25 p.m.—Stories for the Tiny Tots by Auntie Kate.
 5.50 p.m.—Uncle Henry will speak to the kiddies.
 7.35 p.m.—Stock and Share intelligence. Market reports. Cables. News by courtesy of "The West Australian" Press Association.
 8 p.m.—Time Signal from the Perth Observatory.
 8.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
 8.2 p.m.—Musical programme, including art songs.
 9 p.m.—Talk "DIL" by M. P. DURACK, Hon. 10 p.m.—Second News Bulletin, supplied by courtesy of "The Daily News".
 10.30 p.m.—Close down.

SCL, ADELAIDE

MORNING SESSION.

11.30 a.m.—G.P.O. Chimes.
 11.51 a.m.—Stocks Due Art number.
 11.49 a.m.—"Advertiser" news service.
 11.50 a.m.—Weather number.
 12 p.m.—G.P.O. Chimes.
 12.1 p.m.—"Advertiser" news service.
 12.18 p.m.—Stock Due Art number.
 12.19 p.m.—Studio Orchestra—selection, "Tales from Shakespeare" (Howe) you sing those songs, write out the down names, crop-ple, original "Desert caravan", musical. "Water spirit", violin solo, "Romance".
 "Allegro moderate from symphony" (Joy) violin. "Fischel's" Solo. "The down and up."
 1.22 p.m.—S. C. Ward and Co.'s Stock Exchange current official weather telegrams and station announcements.
 2.0 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

3.0 p.m.—G.P.O. Chimes.
 3.1 p.m.—Reply from Maple Leaf Cafe—Orchestral numbers.
 3.40 p.m.—From the Studio—Talk by Mrs. Coghlin.
 4.0 p.m.—G.P.O. Chimes.
 4.1 p.m.—Reply from Araxida Cafe—Orchestral numbers.
 4.50 p.m.—Stock Exchange (renewal general telegrams and station announcements).
 5.0 p.m.—G.P.O. Chimes and close down.

EVENING SESSION.

6.30 p.m.—G.P.O. Chimes.
 6.41 p.m.—Stock Due Art.
 6.46 p.m.—Children's hour. Bedtime stories and nursery rhymes.
 7.30 p.m.—Market reports.
 7.40 p.m.—Milling talk by Mr. Jarkett.
 8.0 p.m.—G.P.O. Chimes.
 8.1 p.m.—Grand opera evening. Humorous and "withdrawing" music, including the quartette from "Rigoletto" (Verdi). The following will be the articles—Madame Marcella Bonasini, Miss Yvonne Harvey, Miss Evelyn Collett, Miss Alwyn Newlin, Mr. Bernard. The quartette by the Cadogan Quartette.
 10.10 p.m.—"Advertiser" national news service.
 10.30 p.m.—Grand opera evening continued.
 11.0 p.m.—G.P.O. Chimes. National anthem and close down.

2FC, SYDNEY

Wed., 26th January

ANNIVERSARY DAY.

HOLIDAY PROGRAMME.

MORNING SESSION.

10.30 a.m.—The Chimes of 2FC.
 10.35 a.m.—"Sydney Morning Herald" news service.
 11 a.m.—"Big Ben" Music from the Studio.
 11.15 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" Announcements.
 Full descriptions of the A.F.C. Meeting at Randwick by 2FC Racing Commentator. The Cricket Match between Victoria and New South Wales will be described in full, with scores at intervals of fifteen minutes. Casual holiday programme with sporting results, interspersed with musical items from the Studio.
 4.30 p.m.—Complete resume of the afternoon's sporting events.

EARLY EVENING SESSION.

6 p.m.—The "Hello Man" talks to the children, assisted by "Judy".
 6.45 p.m.—A talk to the older children.
 7 p.m.—Dinner Music.
 7.10 p.m.—From the Studio, "Evening News" late news service and sporting information.

NIGHT SESSION.

7.30 p.m.—From the Sydney Sports Ground, The Interstate Band Carnival, A Grade Final. The following bands taking part—Charters Towers, Handwick, Canterbury, Toowoomba Municipal, Aberdeen, Ingham Beach Concert, Toowoomba City.
 During the intervals at the Band Carnival, the following articles will be heard from the Studio—Mr. Arthur Ellridge, tenor, and Miss Leslie Elliott, entertainer. The Band Carnival will continue until 11 p.m.
 11 p.m.—"Big Ben" and announcements.
 11.5 p.m.—2FC Dance Band, with Mr. Leo Murray, harmonica, in popular numbers. Dance items until midnight.
 12 midnight.—National Anthem. Close down.

4QG, BRISBANE

MIDDAY SESSION.

12.05 p.m.—Time Signal.
 12.55 p.m.—Time Signal.
 1.0 p.m.—Market Reports. Weather information: "The Daily Mail" and "The Daily Standard" news.
 1.25 p.m.—From Hotel Carlton, Lunch Music from the Lounge, Hotel Carlton, played by Hotel Carlton Symphony Orchestra.
 2.0 p.m.—Close down.

AFTERNOON SESSION.

2.30 p.m.—A programme of Music from the Studio.
 3.15 p.m.—"The Telegraph" News.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.0 p.m.—"Daily Standard" News. Announcements.
 6.30 p.m.—Bedtime Stories by "Uncle Ben" and "Uncle Jim".
 7.0 p.m.—Market Reports. Lectures: "Ditties" (Sodley), by Mr. C. Kidd, Hon. Sec. National Ditties Foddlery Branch Association of Australia.
 7.30 p.m.—Stock Reports. Announcements. Weather News.

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2BL, SYDNEY

3LO, MELBOURNE

EARLY MORNING SESSION.

- 7.15 a.m.—G.P.O. Clock and Chimes.
- 7.18 a.m.—Musical programme from the Studio
- 7.19 a.m.—Physical training and health exercises.
- 7.25 a.m.—Hints on health.
- 7.30 a.m.—Physical training and health exercises.
- 7.45 a.m.—G.P.O. Clock and Chimes.
- 7.46 a.m.—Weather report and forecast.
- 7.48 a.m.—Sports information.
- 7.50 a.m.—Broadcasters' special news service.
- 8.00 a.m.—G.P.O. Clock and Chimes close down.

MORNING SESSION.

- Racing information broadcast by courtesy of the "Sun."
- 11 a.m.—G.P.O. Clock and Chimes.
 - 11.1 a.m.—Weather report.
 - 11.4 a.m.—Musical programme from the Studio
 - 11.12 a.m.—Sydney Daily Telegraph news service.
 - 11.21 a.m.—G.P.O. Clock and Chimes.
 - 11.24 a.m.—Musical programme from the Studio
 - 11.45 a.m.—Sydney Daily Telegraph news service.
 - 12 noon—G.P.O. Clock and Chimes.
 - 12.1 p.m.—Market reports.
 - 12.15 p.m.—London Retail quotations.
 - 12.25 p.m.—Buses to call by wireless.
 - 12.33 p.m.—Weather report and forecast.
 - 12.35 p.m.—Shipping information—arrivals and departures.
 - 12.45 p.m.—Information re intervals and systems made.
 - 12.51 p.m.—News service by courtesy of the "Sun."
 - 12.55 p.m.—Musical programme from the Studio.
 - 1 p.m.—G.P.O. Clock and Chimes.
 - 1.1 p.m.—News from the "Sun."
 - 1.15 p.m.—Musical programme from the Studio
 - 1.25 p.m.—G.P.O. Clock and Chimes.
 - 1.31 p.m.—News from the "Sun."
 - 1.45 p.m.—Talk on Sporting and Athletic features for the day. Lacrosse, hockey, golf, bowls, surfing, football. During the afternoon sporting information will be broadcast by courtesy of the "Sun" Newspapers. Racing resume will be broadcast every half hour.
 - Musical programme from the Studio during the afternoon.
 - 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.—Uncle George and the Kiddies.
- 5.49 p.m.—Musical programme from the Studio
- 5.55 p.m.—Results of all sporting information, including racing, horse, tennis, swimming, sailing, athletics, by courtesy of the "Sun."
- 7.00 p.m.—Country News from the "Sun" and results of sports. Includes a talk on 20th Century results of all sporting and athletic features.
- 8 p.m.—G.P.O. Clock and Chimes. Broadcasters' Topical Chorus.
- 8.3 p.m.—Broadcasters' Trio.
- 8.5 p.m.—Miss Ida Leggett, soprano.
- 8.59 p.m.—Mr. Stan Hubson, English light comedian.
- 9.2 p.m.—Mr. Stanley Crittenden will talk on "Building a Yacht Set."
- 9.45 p.m.—Mr. William Eversard, tenor.
- 9.54 p.m.—Resume of following day's programme. Weather report and forecast, by courtesy of Mr. G. J. Myers, Govt. Meteorologist.
- 9.58 p.m.—G.P.O. Clock and Chimes.
- 9.59 p.m.—Neil Crane and A.H. Lawrence.
- 9.59 p.m.—Broadcasters' Trio.
- 9.59 p.m.—Interval.
- 9.59 p.m.—Miss Ida Leggett and Mr. William Eversard.
- 9.59 p.m.—Mr. Stan Hubson.
- 9.59 p.m.—Miss Ida Leggett.
- 9.59 p.m.—Broadcasters' Trio.
- 10.1 p.m.—Mr. William Eversard.
- 10.11 p.m.—The Ambassadors' Dinner Band broadcast from the ballroom of the Ambassador. During the intervals between dances news reports by courtesy of the "Sun" Newspapers will be broadcast.
- 12 midnight—G.P.O. Clock and Chimes. National anthem.

MID-DAY SESSION.

- 12 noon—Time Signal. Reuters and the Australian Press Association Cables. "The Sun" and "Herald" News services. Shipping Intelligence.
- 12.30 p.m.—MR. MELODY MASTERS. "Walking Round in Circles." "Marble."
- 12.45 p.m.—THE ROYAL SCOTS. "Buddies."
- "Little Spanish Town."
- 12.50 p.m.—Meteorological Information. Stock Exchange Information. Weather Forecast for Victoria, Tasmania, South Australia and New South Wales. River Reports.
- 1.00 p.m.—MR. MELODY MASTERS. "Just a Cottage Small."
- 1.10 p.m.—HAROLD WALDRON, in more hurry moments.
- 1.22 p.m.—MR. MELODY MASTERS. "44 Climb the Highest Mountain." "Waltz of Love."
- 1.22 p.m.—THE ROYAL SCOTS. "The Ninety Three Today." (Walker) (Gibson)
- 1.42 p.m.—MR. MELODY MASTERS. "Copenhagen."
- "Hurray for the Irish."
- 2.00 p.m.—Close down.
- 2.30 p.m.—Description of Cricket, Victoria versus Tasmania will be given about every half hour.
- 3.00 p.m.—Description of the Handicap Hurdle. Appendix Rates by "Market" of "The Sporting Globe."

AFTERNOON SESSION.

- Announce. ALFRED ANDREW. Accompanist. AGNES FORTUNE.
- 3.0 p.m.—Description of the Maiden Plate. Appendix Rates by "Market" of "The Sporting Globe."
 - 3.05 p.m.—STUDIO ORCHESTRA. Selection. "Galante." (Ballman)
 - 3.15 p.m.—MISS FRANCES FRASER Travelling. "Here and There in England."
 - 3.49 p.m.—Description of the Appendix Plate.
 - 3.45 p.m.—ESTELLE WILSON, Soprano. Song. "Katie Mae, Valse." (Russell)
 - Piano, Margaret Sheridan. "Fables." (Grove)
 - Song, Estelle Mark. "Here in the Quiet Hills." (Grove)
 - 3.55 p.m.—STUDIO ORCHESTRA. Selection. "Carmen."
 - 4.0 p.m.—Description of the Appendix Plate Handicap.
 - 4.05 p.m.—THE AUSTRALIAN LADIES' PIPE BAND. Selections of Scotch Airs.
 - 4.22 p.m.—VICTORIA WILSON, Soprano. "Robert O' the adams." "Rose in the Bud."
 - 4.30 p.m.—Description of the Appendix Plate.
 - 4.35 p.m.—Sister PECK, a call on "Mother and I."
 - 4.45 p.m.—"HERALD" news service. Stock Exchange Information.
 - 5.0 p.m.—Description of Welter Handicap. Appendix Rates.
 - 5.05 p.m.—Close Down.

EVENING SESSION.

- 5.40 p.m.—CHILDREN'S HOUR. Answers to letters and Birthday Greetings by "MARY MARY."
- 5.55 p.m.—STUDIO ORCHESTRA. "The Blue Bird." Parts 1 and 2. (Byrd)
- 6.12 p.m.—"MARY MARY" tells about "Wandering Jack."
- 6.22 p.m.—ALEX KELLAWAY and ESTELLE ROSE. "Rebecca from Mecca." "Some Stories."
- 6.29 p.m.—"MARY MARY." "The Drawing Lesson."
- 6.35 p.m.—"ARBUS" and "Herald" News service. Reuters and the Australian Press Association Cables. Shipping Movements. Overseas Shipping Weather Information.

- 6.47 p.m.—Stock Exchange Information.
- 6.52 p.m.—Fish Market reports by J. R. Forrest, Ltd.
- 6.53 p.m.—River reports.
- 6.58 p.m.—Market reports by the Victorian Co-operative Co. Ltd. Hapnacker sheep sales. Poultry. Grain. Chief Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market prices of Oranges and Lemons by the Victorian Central Citrus Association.

NIGHT SESSION.

- Announce. MAURICE DUDLEY. Accompanist. AGNES FORTUNE.
- 7.15 p.m.—Under the leadership of the Department of Agriculture, MISS KNIGHT. Fruit Preserving Report. "JAMS AND JELLIES."
 - 7.30 p.m.—Under the auspices of the Australian Nurses' Association, MR. V. DIMELLOW. "The A.K.A. 'Clarify' Carnival." (Grove)
 - 7.45 p.m.—CAPTAIN. C. H. PETERS. "DADDEE, WIFE AND OTHERWISE."
 - 8.0 p.m.—MALVERN TRAMWAYS BAND. March. "Underhill House." (Hosie)
 - Musical programme of "Orléans Home."
 - 8.30 p.m.—VICTORIA WILSON, Soprano. "Di Loreto." (Liszt)
 - "Penny Song."
 - 8.35 p.m.—ALEX GIBSON'S SEXTETTE. "Hawaiian Love."
 - Instruments. "Cavallaria Rusticana."
 - 8.37 p.m.—THE ROYAL SCOTS. "When the Bells are Whise with Hoother." (Gibson)
 - "O'er the Hill, O'er the Dale." (Muller)
 - 8.41 p.m.—THE AUSTRALIAN LADIES' PIPE BAND. Selections of Scottish Airs.
 - 8.45 p.m.—HAROLD WALDRON, in more hurry moments.
 - 9.02 p.m.—MALVERN TRAMWAYS BAND. Overture. "Ben Gunn." (Mars)
 - 9.22 p.m.—ALEX KELLAWAY and ESTELLE ROSE. "Friendship." "Maurine A and B." "Here I Am." "Lilies."
 - 9.30 p.m.—THE AUSTRALIAN LADIES' PIPE BAND. "Scotch Airs."
 - 9.42 p.m.—THE ESTELLE MARK TRIO. 1st song, Estelle Mark. "A Request." (Coleridge Taylor).
 - Piano, Margaret Sheridan. "Petite Suite." (Kopel)
 - Song, Estelle Mark. "Just a Cottage Small." Violin, Cecilia Kidoff. "La Capricieuse." (Elgar)
 - 9.55 p.m.—MALVERN TRAMWAYS BAND. Overture. "Rugby Over." (Tchikowsky)
 - 10.10 p.m.—"ARBUS" News service. Appendix Rates.
 - 10.20 p.m.—THE ROYAL SCOTS. "The De Hill, to Ardennans." (Lander)
 - "Fornia Little Rose."
 - 10.30 p.m.—ALEX GIBSON'S SEXTETTE. "Aloha O'." "Hawaiian." "Love the Wives."
 - 10.42 p.m.—VICTORIA WILSON. ("Verdi") "Ah! Pura vita." (Toscanini)
 - "The Smuggling." (S. Johnson)
 - 10.50 p.m.—British Official Wireless News from Dieppe. Weather forecast.
 - 11.0 p.m.—MR. GREAT THOUGHT. "I am persuaded that every time a man smiles, but much more so when he laughs it adds something to the fragrant of life." (Stieglitz)
 - 11.1 p.m.—MR. MELODY MASTERS. "Victims of the Dance." "Save your Sorrows." "Copenhagen." "Ukulele Baby." "Say it Again."
 - 11.49 p.m.—GOD SAVE THE KING.

3AR, MELBOURNE

MORNING SESSION.

- 11.20 a.m.—British official wireless news received from Rugby Super Wireless Station, England. Express train information. "Age" news bulletin, exclusive to 3AR.

The World's Flyers carried Burgess.



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10 noon.—Time Signal Chimes. Studio barometer and outdoor thermometer readings. First weather report. Events of the day.
 11.55 p.m.—Musical selections from the Studio.
 12.30 p.m.—Stock Exchange news. Market reports.
 12.45 p.m.—Musical selections.
 1.15 p.m.—Shipping and mail notes.
 1 p.m.—Close down.

AFTERNOON SESSION.

Appreciated Park League Club. Results after last race and all half-hour intervals.
 2.15 p.m.—Miss Louise Chalmers, violinist:
 "Salsabon" (Liszt).
 2.25 p.m.—The Classic Trio, selections from:
 "The Boy" (Liszt).
 "Chanson Paroisse" (Tchakowetzki).
 2.35 p.m.—Miss Lucie Knox, dramatic soprano:
 "Mimes Adieu" (from La Boheme) (Puccini).
 "Songs My Mother Taught Me" (Dvorak).
 3 p.m.—Mr. Stafford Byrne, cellist: "Valse Trieste" (Sibelius).
 3.15 p.m.—Miss Violet Wood, pianist: "Fantasia Impromptu" (Chopin).
 3.27 p.m.—The Classic Trio, Selections from:
 "The Blue River" (Finland).
 "Oh, How I Miss You Tonight" (Dixie).
 3.33 p.m.—Miss Lucie Knox, dramatic soprano:
 "A Song of India" (Hanssens).
 "Salaam" (Lauri).
 3.40 p.m.—Selections by the Studio Quartette.
 4 p.m.—Time Signal Chimes. Second weather forecast.
 Selections by the Studio Quartette.
 4.35 p.m.—Evening amusement guide.
 5 p.m.—Time Signal Chimes. Studio barometer reading. Close down.

EARLY EVENING SESSION

6.15 p.m.—Children's Corner, Uncle Ned.
 EVENING SESSION
 7.50 p.m.—Studio official wireless press. Studio teleprinter readings.
 8 p.m.—Mr. Ronald Blackmore, solo pianist:
 "The Sea" (Paderewski).
 "Romance in F Sharp" (Schumann).
 8.5 p.m.—Comedy Playlet in one act, "A Woman's Will." Margie Vernon, an actress at home on vacation. Miss Eunice South. Pete Wilson, a tramp. Mr. J. L. Lawrence.
 Scene.—Interior of Margie Vernon's sitting room. Time.—Morning, the present day.
 by songs.—Margie Vernon sings in house with sick mother, a tramp comes to rob the place. Margie simulates madness, frightens the tramp away, proving that women with it is stronger than man's strength.
 8.22 p.m.—Mr. Lloyd Murin, tenor:
 "Love-light" (Gealty).
 "Margarita" (Vergil).
 8.36 p.m.—Mr. Dick Bayford, talk on cars.
 "The Holly Carburator."
 8.45 p.m.—Miss Myrtle Mills, contralto:
 "The Rosary" (Nevan).
 "Waltz" (Bischoff).
 8.58 p.m.—Madame Agnes Sowthe, violinist:
 Selections from Grand Opera.
 "Tannhauser" (Wagner).
 "Luisa D'Amour" (Donizetti).
 "A Memory" (Honeyman).
 9.20 p.m.—Mr. Gerald Brocklesby, baritone:
 "O, Dir, Those Tears" (Percia del Bago).
 "Love's Old Sweet Song" (Molloy).
 9.6 p.m.—Rev. Dr. Brandt. An Illustrated lecture on "Wu and Homer."
 9.15 p.m.—Mr. Lloyd Murin, tenor:
 "Flery Song" (Houghton).
 "To Bachelor" (Elkin).
 9.30 p.m.—Madame Agnes Sowthe, violin:
 "Il Trovatore" (Verdi).
 "Romance of Arnie" (Gerard).
 9.55 p.m.—Miss Myrtle Mills, contralto:
 "Lull" (Sanderson).

"I love you truly" (Jacobs-Bond).
 9.44 p.m.—Miss Ann Green, humorous recitation, "The Joiners."
 9.52 p.m.—Mr. Gerald Brocklesby, baritone:
 "The Trompeter" (Dixie).
 "Arise of God" (Day).
 10 p.m.—Time Signal Chimes. Studio barometer reading. "Age" News Bulletin.
 10.10 p.m.—Legeret's Balloon Orchestra.
 11 p.m.—Time Signal Chimes, G.P.O. Close down.

4QG, BRISBANE

EARLY MORNING SESSION.

6.10 a.m.—Physical Culture Session.
 7.40 a.m.—Close down.

MIDDAY SESSION.

12.55 p.m.—Time in.
 12.58 p.m.—Time Signal.
 1.00 p.m.—Market reports; Weather information. "The Daily Mail" News; "The Daily Standard" News.
 1.30 p.m.—From Hotel Carlton: Lunch Music from the Lounge, Hotel Carlton, played by Hotel Carlton Symphony Orchestra.
 2.10 p.m.—Close down.

AFTERNOON SESSION

3.30 p.m.—From Hotel Carlton: Afternoon Tea Music from the Lounge, Hotel Carlton, played by Hotel Carlton Symphony Orchestra.
 4.15 p.m.—From the Studio. "The Telegraph" News.
 5.00 p.m.—Close down.

EARLY EVENING SESSION

6.0 p.m.—"Daily Standard" News. Announcements.
 6.30 p.m.—Bedtime Stories by "Little Miss Brisbane."
 7.0 p.m.—Market Reports. Lectorial: "Farming" Shop. In Queensland. "Biology Brooding Experiments"—No. 4 of a series by Mr. A. Carey, Assent. Inspector in Sheep and Wool.
 7.30 p.m.—Stock Reports. Announcements. Weather News.

NIGHT SESSION.

7.45 p.m.—Lecture Session—A French Talk—the second of a series by Comte de Tournefort.
 8.0 p.m.—Studio Concert. Overture—"Queen of Autumn" (Biggs), the Studio Orchestra (conductor, Mr. A. R. Emmerstone), contralto solo, "The Blind Ploughman" (Clarke), Miss Hilda Cooper, nurse and mirth by Mr. Ken West; tenor solo, "Once Again" (Sullivan), Mr. J. Land; solo, "Wedding of the Winds" (Hall), the Studio Orchestra, reading from Dickens—"The Death of Little Nell" from "The Old Curiosity Shop," Mr. H. Humphries (piano), "Little Nell" (Young), sung by Mr. M. Clancy; pianoforte solo, "Popular Airs from Grand Opera," Miss V. E. Driver; Hawaiian instrumentalists, "O Kula Tru" selection, "Bell of Normandy" (Pianquette), the Studio Orchestra.
 8.0 p.m.—Metropolitan Weather Forecast. Caprice, "Paganini" (Gottschalk); the Studio Orchestra; contralto solo, "Beloved, it is Murn" (Aldward), Miss Hilda Cooper; Hawaiian instrumentalists, the Kulu Tru; tenor solo, "My Task" (Aldward), Mr. J. Land; suite, "Three Dances from Henry VIII" (German), the Studio Orchestra, Hawaiian instrumentalists, the Kulu Tru; dance waltzes—"The Painty Shepherds" (Beaumais), the Studio Orchestra; pianoforte solo, "March Hongkong" (Kowalski), Miss V. E. Driver; march, "True Value" (Greenwalt), the Studio Orchestra.
 10.0 p.m.—"The Daily Mail" News. Weather information. Close down.

5CL, ADELAIDE

MORNING SESSION.

11.30 a.m.—G.P.O. Chimes
 11.45 a.m.—Sink Duo Act number.
 11.46 a.m.—"Advertiser" news service.
 11.55 a.m.—Variety number.
 12.0 noon.—G.P.O. Chimes.
 12.1 p.m.—"Advertiser" news service continued.
 12.10 p.m.—Sink Duo Act number.
 12.20 p.m.—Studio Orchestra. Overture, "Stanley's Melody No. 2"; fox trot, "Say it again"; waltz, "Trieste"; waltz, "Tune name"; one step, "On the Riviera"; cornet solo, "Beverly"; intermezzo, "Wedgewood Blue"; finale, "American melody."
 1.30 p.m.—Ward and Co's Stock Exchange report, official weather synopsis and station arrangements.
 2.10 p.m.—G.P.O. Chimes and close down.

AFTERNOON SESSION.

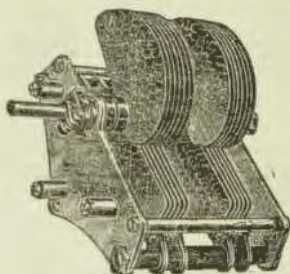
3.00 p.m.—G.P.O. Chimes.
 3.1 p.m.—Relay from Maple Leaf Orchestra numbers.
 3.43 p.m.—From the Studio—Stock Duo Act numbers.
 4.0 p.m.—G.G.O. Chimes.
 4.1 p.m.—Relay from the Arcadia Cafe—Orchestra numbers. Banquet, Miss Allen Newby.
 4.55 p.m.—Stock Exchange reports, general information and station arrangements.
 5.0 p.m.—G.P.O. Chimes, and close down.

EVENING SESSION.

6.00 p.m.—G.P.O. Chimes.
 6.31 p.m.—Stock Duo Act number.
 6.36 p.m.—The Children's Hour. Bedtime stories and nursery rhymes.
 7.20 p.m.—Market reports.
 7.40 p.m.—Boy Scouts' earnest, Captain R. A. White.
 7.50 p.m.—Faulding's scientific talk.
 8.0 p.m.—G.P.O. Chimes.
 8.1 p.m.—Song, "Miss Thelma Bala."
 8.5 p.m.—Organ solo selected from Parkside Baptist Church by kind permission of the Rev. Bernard Tuck.
 8.15 p.m.—Song, Mr. James Barrett.
 8.25 p.m.—Violin solo, Miss K. Yeager.
 8.35 p.m.—Descriptive talk by "The twinkler" on his Tasmanian tour.
 8.40 p.m.—Song, Miss Linda Whittle.
 8.41 p.m.—Relay by permission of Mail Newspapers, Ltd., description of production of "Modern Radio and Electricity," with demonstration of machinery in motion.
 9.0 p.m.—G.P.O. Chimes.
 9.1 p.m.—Weather report.
 9.2 p.m.—Dancer's wheel report.
 9.5 p.m.—Song, Miss Dan Wildsmith.
 9.5 p.m.—Organ solo selected from Parkside Baptist Church.
 10.1 p.m.—Song, Mr. Gill Evans.
 10.15 a.m.—Humorous recitation, Mr. Chas. Carter.
 10.23 p.m.—Song, Miss Thelma Bala.
 10.27 p.m.—Violin solo, Miss K. Yeager.
 10.30 p.m.—Organ solo relayed from Parkside Baptist Church.
 10.40 p.m.—Song, Miss Linda Whittle.
 10.44 p.m.—Violin solo, Miss Katie Yeager.
 10.48 p.m.—Song, Miss Gill Evans.
 10.52 p.m.—Organ solo relayed from Parkside Baptist Church.
 10.6 p.m.—G.P.O. Chimes.
 10.1 p.m.—Song, Mr. D. Wildsmith.
 10.4 p.m.—Recitation, Mr. Chas. Carter.
 10.9 p.m.—Song, Miss Thelma Bala.
 10.15 a.m.—"Advertiser" general news service.
 10.30 p.m.—Song, Mr. D. Wildsmith.
 10.34 p.m.—Relay from the Floating Palace.
 10.55 p.m.—Station announcements.
 11.0 p.m.—G.P.O. Chimes, National anthem, and close down.



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2FC, SYDNEY

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements. A message to the S.A. "Drama" will be broadcast.
- 7.5 a.m.—Music from the Studio.
- 7.10 a.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
- 7.25 a.m.—Investment market, mining share market, metal quotations.
- 7.35 a.m.—Wool sales, broadstuffs markets, interstate markets, produce markets.
- 7.45 a.m.—"Sydney Morning Herald" news service.
- 8 a.m.—"Big Ben." Music from the Studio.
- 8.15 a.m.—Close down.

MORNING SESSION.

- 9.15 a.m.—The Chimes of 2FC.
- 9.20 a.m.—Music from the Studio.
- 9.45 a.m.—A talk by 2FC Racing Commissioner.
- 10 a.m.—"Big Ben" and announcements.
- 10.5 a.m.—Late "Sydney Morning Herald" news service.
- 10.15 a.m.—Music from the Studio, 10.30.
- 10.45 a.m.—A Morning Reading.
- 11 a.m.—"Big Ben." Australian Press Association and Reuters' Cable Services.
- 11.15 a.m.—Music from the Studio.
- 11.15 a.m.—
- 11.30 a.m.—Close down.

MIDDAY SESSION.

- 12 noon—"Big Ben."
- 12.5 p.m.—Stock Exchange—first call.
- 12.30 p.m.—Studio Music.
- 12.46 p.m.—From Farmer's Oak Hall. Instrumental music from the Oak Hall Trio.
- 12.50 p.m.—From the Studio. Rugby Wireless News.
- 12.55 p.m.—Miss Margaret Lescaut, soprano.
- 1 p.m.—"Big Ben." Weather information.
- 1.3 p.m.—"Evening News" midday service. Publishers' Distributing Society's report.
- 1.50 p.m.—From Farmer's Oak Hall. The Oak Hall Instrumental Trio.
- 1.25 p.m.—Studio Music.
- 1.40 p.m.—Stock Exchange—second call.
- 1.52 p.m.—Studio Music.
- 1.45 p.m.—Miss Margaret Lescaut, soprano.
- 1.50 p.m.—Studio Music.
- 1.55 p.m.—A talk by 2FC Racing Commissioner.
- 2 p.m.—"Big Ben." Close down.

6WF, PERTH

- 12.30 p.m.—Tune in.
- 12.35 p.m.—First Local News Bulletin. Market reports. Cables.
- 1 p.m.—Time Signal from the Perth Observatory.
- 1.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
- 1.2 p.m.—"STILLING BENTLEYE."
- 2 p.m.—Close down.
- 3.30 p.m.—Tune in.
- 3.35 p.m.—Musical programme.
- 4.30 p.m.—Close down.
- 7 p.m.—Tune in.
- 7.5 p.m.—A playette for the Kiddies by UNCLE DUFFY, with Auntie Kate and Evelyn and Uncles Henry, Leslie, Perry and Duffy.
- 7.35 p.m.—Stock and Share Intelligence. Market reports. Cables. News by courtesy of "The West Australian."
- 8 p.m.—Time Signal from the Perth Observatory.
- 8.1 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
- 8.2 p.m.—A.N.A. Social Celebrations, relayed from the A.N.A. Club, Perth.
- 10 p.m.—Second News Bulletin, supplied by courtesy of "The Daily News."
- 10.30 p.m.—Close down.

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AFTERNOON SESSION.

- 2.30 p.m.—The Chimes of Big C.
 2.45 p.m.—Studio Music.
 3.00 p.m.—From Farmer's Tea Rooms. Instrumental items from the Oak Hall Trio.
 3.15 p.m.—Studio Music.
 3.30 p.m.—From Farmer's Tea Rooms. Miss Ellen Temple contralto, "Thank God for a Garden" (De Bevoise).
 3.45 p.m.—The Oak Hall Instrumental Trio.
 3.55 p.m.—Studio Music.
 4.10 p.m.—From Farmer's Tea Rooms. Miss Alice Pomeroy, soprano.
 4.25 p.m.—The Oak Hall Instrumental Trio.
 4.35 p.m.—Studio Music.
 4.45 p.m.—From Farmer's Tea Rooms. Miss Ellen Temple contralto, "Still as the Night" (Hobin).
 4.55 p.m.—The Oak Hall Trio.
 5.05 p.m.—Studio Music.
 5.15 p.m.—From Farmer's Tea Rooms. Miss Alice Pomeroy, soprano.
 5.25 p.m.—Stock Exchange—third call.
 5.45 p.m.—Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of Big C.
 6.00 p.m.—"The Hebe Man" talks to the children.
 6.30 p.m.—A story for the older ones.
 6.45 p.m.—Dinner Music.
 7.00 p.m.—From the Studio. "Evening News" late news service. Weather information.
 7.15 p.m.—Delgey's market report (wheat, wheat, stock), fruit and vegetable markets.
 7.40 p.m.—A talk by the Technical Editor of "Wireless Weekly."

NIGHT SESSION.

- 7.55 p.m.—The Chimes of Big C.
 8.10 p.m.—Broadcast from the Her Majesty's Theatre. Items by the Operatic Orchestra, under the baton of Mr. Stanley Porter.
 8.30 p.m.—From the Studio. Mr. Norman Janzer, baritone.
 8.45 p.m.—A Comedy Sketch by Mr. Montagu Sturt and Company.
 8.50 p.m.—A Recital—Lecture by the eminent Composer/Pianist, Mr. Maurice Strakos, The lecture will be illustrated by Miss Daisy Margetts, soprano, who will sing Mr. Strakos's compositions, and Mr. Huxley will be heard in his own works for the piano.
 9.25 p.m.—Mr. Bryan Taylor, tenor—
 (a) "Doloras" (Phillips).
 (b) "Sometimes in Summer" (Bennett).
 9.35 p.m.—A comedy sketch by Mr. Montagu Sturt and Company.
 9.40 p.m.—Mr. Norman Janzer, baritone.
 9.45 p.m.—A talk by Mr. William Adams on the occasion of the Anniversary of the Birthday of Mozart, illustrated with musical items.
 10.10 p.m.—Mr. Bryan Taylor, tenor—
 (a) "Here in the quiet hills" (Cerne).
 (b) "Molly Brannigan" (Hughes).
 10.15 p.m.—From the Her Majesty's Theatre. Items by the Operatic Orchestra, under the baton of Mr. Stanley Porter.
 10.30 p.m.—From the Westworth Hotel Items by the New Westworth Symphonic Dance Orchestra, conducted by Mr. Sydney Stanger.
 11.00 p.m.—"Big Ben" and announcements.
 11.10 p.m.—The Westworth New Symphonic Dance Orchestra in dance numbers until midnight.
 12 midnight.—National Anthem. Close down.

2BL, SYDNEY

EARLY MORNING SESSION.

- 7.15 a.m.—G.P.O. Clock and Chimes.
 7.40 a.m.—Musical programme from the Studio.
 7.45 a.m.—Physical training and health exercises.
 7.55 a.m.—Hints on health.
 7.58 a.m.—Physical training and health exercises.
 7.59 a.m.—G.P.O. Clock and Chimes.
 7.40 a.m.—Weather report.
 7.55 p.m.—Shipping information.
 8.00 a.m.—Broadcasters' special news service.
 8.05 a.m.—G.P.O. Clock and Chimes close down.

MORNING SESSION.

- 8.05 a.m.—G.P.O. Clock and Chimes.
 8.11 a.m.—Weather report.
 8.15 a.m.—Musical programme from the Studio.
 8.20 a.m.—News service from the "Daily Telegraph."
 8.25 a.m.—Musical programme from the Studio.
 8.30 a.m.—Ten minutes talk supplied by the S.M.A.
 8.35 a.m.—G.P.O. Clock and Chimes.
 8.40 a.m.—News from the "Daily Telegraph."
 8.45 a.m.—Bullish Market report.
 8.50 a.m.—Fruit Market report.
 8.55 a.m.—Report on the London Dairy Farm and Egg and Poultry Markets.
 9.00 a.m.—London Metal quotations.
 9.05 a.m.—Ships in call by wireless.
 9.10 a.m.—Information to interstate and overseas mails.
 9.15 a.m.—Shipping information, arrivals and departures.
 9.20 a.m.—Weather report.
 9.25 a.m.—Women's Session, conducted by Mrs. Jordan. Social news.
 9.30 a.m.—Mrs. Jordan replies to correspondence.
 9.35 a.m.—G.P.O. Clock and Chimes.
 9.40 a.m.—Talk on "The School Outfit" by Mrs. Jordan.
 9.45 a.m.—News from the "Sun."
 9.50 p.m.—G.P.O. Clock and Chimes.
 9.55 p.m.—Sydney Stock Exchange Calls.
 10.00 p.m.—"Sun" Newspaper news service.
 10.05 p.m.—Hilfons' Instrumental Quartet: "Airelton," "Caryl Castle."
 10.10 p.m.—G.P.O. Clock and Chimes.
 10.15 p.m.—Weather report.
 10.20 p.m.—Sydney Stock Exchange Calls.
 10.25 p.m.—Musical programme from Studio.
 8.00 a.m.—G.P.O. Clock and Chimes, close down.

AFTERNOON SESSION.

- Rising information broadcast by courtesy of the "Sun."
 2.00 p.m.—G.P.O. Clock and Chimes.
 2.05 p.m.—Weather report and forecast.
 2.10 p.m.—Social Notes from the "Sun."
 2.15 p.m.—News from the "Sun."
 2.20 p.m.—Musical programme from the Studio.
 2.25 p.m.—G.P.O. Clock and Chimes.
 2.30 p.m.—Country Women's Session.
 2.35 p.m.—G.P.O. Clock and Chimes. Musical Programme from the Studio.
 2.40 p.m.—G.P.O. Clock and Chimes.
 2.45 p.m.—News from the "Sun."
 2.50 p.m.—Serial Story.
 2.55 p.m.—Musical programme from Studio.
 3.00 p.m.—Producers' Distributing Society's Vegetable and Fruit Market report.
 3.05 p.m.—Shipping information when available.
 3.10 p.m.—Day's racing resume on race days.
 3.15 p.m.—News from the "Sun."
 3.20 p.m.—Resume of night's programme.
 3.25 p.m.—G.P.O. Clock and Chimes; close down.

EARLY EVENING SESSION.

- 5.15 p.m.—G.P.O. Clock and Chimes.
 5.20 p.m.—Uncle George and the Kiddies.
 5.25 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7.00 a.m.—G.P.O. Clock and Chimes.
 7.10 a.m.—Australian Mercantile Land and Produce Co's report.
 7.15 a.m.—Weather report and forecast by courtesy of the Govt. Meteorologist.
 7.20 a.m.—Stock Exchange reports.
 7.25 a.m.—Producers' Distributing Society's Vegetable and Fruit Market report.
 7.30 a.m.—Grain and Fodder Report ("Sun"). Dairy Produce Report ("Sun").
 7.35 a.m.—Country News from the "Sun."
 7.40 a.m.—Talk on "The Dairying Outlook" by Mr. Bradford.

- * 6.00 a.m.—G.P.O. Clock and Chimes.
 6.05 a.m.—Broadcasters' Topical Chorus.
 6.10 p.m.—The Tripoli Duo, steel guitars.
 6.15 p.m.—Miss Millie Herbert, soprano.
 6.20 p.m.—Familiar and Social Notes, broadcast from the ballroom of the Ambassadors.
 6.25 p.m.—Miss Bessie Cooke, contralto.
 6.30 p.m.—The Orpheum Amateur Orchestral Society. Broadcast from Bares House.
 6.35 p.m.—Mr. Dick Matthews, light baritone.
 6.40 p.m.—Mr. Joel Wright, jazz pianist.
 6.45 p.m.—Resume of following day's programme.
 6.50 p.m.—Weather report and forecast by courtesy of Mr. C. J. Marry, Govt. Meteorologist.
 6.55 p.m.—G.P.O. Clock and Chimes.
 7.00 p.m.—Mr. Hugh Godwin, Old English ballads.
 7.05 p.m.—Fashion Notes from the ballroom of The Ambassadors.
 7.10 p.m.—Miss Millie Herbert.
 7.15 p.m.—Interval.
 7.20 p.m.—The Orpheum Amateur Orchestral Society.
 7.25 p.m.—Mr. Hugh Godwin.
 7.30 p.m.—Mr. Dick Matthews.
 7.35 p.m.—The Tripoli Duo.
 7.40 p.m.—G.P.O. Clock and Chimes.
 7.45 p.m.—Miss Bessie Cooke.
 7.50 p.m.—The Ambassadors Dance Band broadcast from the ballroom of The Ambassadors. During the intervals between dances news reports by courtesy of the "Sun" Newspaper will be broadcast.
 12 midnight.—G.P.O. Clock and Chimes. National anthem.

3LO, MELBOURNE

MID-DAY SESSION.

- 12 noon. Time Signal. Reuters and Australian Press Association Cables. "Argus" and "Herald" news service. Shipping Intelligence.
 12.30 p.m.—STUDIO ORCHESTRA. "Symphonica" (Krivicki).
 12.40 p.m.—THE PREMIER FOUR. "Come! Turn the Key" (Maurice Strakos).
 12.45 p.m.—Weather Reports. Stock Exchange information.
 1.00 p.m.—STUDIO ORCHESTRA. "Russian Folk Song" (Friml).
 1.05 p.m.—ALEX KELLEWAY and ESTELLE RASKY.
 1.10 p.m.—WALTER SMITH, Cornet Solo. "Sonic" (Cade).
 1.15 p.m.—HAROLD WALDRON, in a few words, moments.
 1.20 p.m.—THE PREMIER FOUR. "After the Dawn" (Summer Lamb).
 1.25 p.m.—STUDIO ORCHESTRA. "Tobacco" from "Dr. Cupid" (E. Wolf Ferrini).
 1.30 p.m.—Close down.
 1.35 p.m.—AFTERNOON SESSION.
 1.40 p.m.—THE STUDIO ORCHESTRA. "Sylvia" (Speaks).
 1.45 p.m.—"Morning" (Speaks).
 1.50 p.m.—MAS OTTE RALSTON. "Soubrette" (Bethune).
 1.55 p.m.—"Where'd you Get Those Eyes?" (Gray).
 2.00 p.m.—"While we Bred the Day" (Schumann).
 2.05 p.m.—THE ROYAL SCOTS. "The Auld Scotch Song" (Bethune).
 2.10 p.m.—"Caller Duo" (Gray).
 2.15 p.m.—THE AUSTRIAN LADIES' PIPE BAND, in Selections of "Scotch Airs."
 2.20 p.m.—ESTELLE MARK TRIO. Song, "I See You Beside Me" (Schumann).
 2.25 p.m.—"Gillies" (Schumann).
 2.30 p.m.—"I Love the Moon" (Rubens).
 2.35 p.m.—"Lovers in a Major" (Rach).
 2.40 p.m.—THE ROYAL SCOTS. "Romance to the Gleanings" (Lander).
 2.45 p.m.—"Admiral" (Lander).

- 4.10 p.m.—STUDIO ORCHESTRA.
"Carnava! Suite" (Joyce)
- 4.20 p.m.—"MARY GUMLEAF," The Poems
of Walter De La Mare.
Short Sketch, "When Mother Lanches Out."
- 4.33 p.m.—"Herald" and "Arius" news ser-
vices. Stock Exchange information.
- 4.40 p.m.—CIGAL, SVEN, SONGS. Trans-
mitted from ST. PAUL'S CATHEDRAL.
- 4.50 p.m.—Gloss Down.

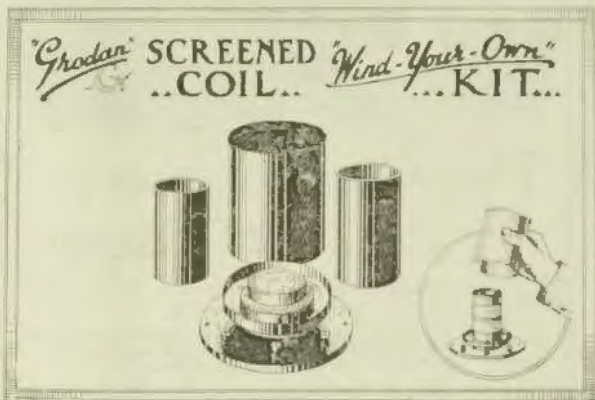
EVENING SESSION.

- 5.40 p.m.—Answers to letters and Birthday
Greetings, by "Mary Gumleaf."
- 5.45 p.m.—THE PREMIER FOUR,
"Just a Song at Twilight."
"Knee Deep in Daisies."
- 5.52 p.m.—MARY GUMLEAF, will tell two
little poems,
"Ten Little Music Boxes"
"The Holly Garden."
- 5.57 p.m.—ELSIE BRADSHAW at the piano
for a few minutes.
- 6.10 p.m.—THE PREMIER FOUR,
"When You and I Were Seventeen."
"Little Irish Girl."
- 6.26 p.m.—MARY GUMLEAF, a talk to the
boys and girls on
"The Nights of Mornington."
- 6.34 p.m.—"Argus" and "Herald" News Ser-
vices. Shipping Movements, Overseas Ship-
ping, Weather Synopsis.
- 6.47 p.m.—Stock Exchange Information
- 6.52 p.m.—Fish Market Reports by J. R.
Barrett, Ltd.
- 6.55 p.m.—River Reports.
- 7.0 p.m.—Market Reports by the Victorian
Producers' Co-operative Co., Ltd. Haymarket
sheep sales. Poultry, Grain, Cattle, Hog
Stew, Jute, Dairy Produce, Potatoes and
Onions.
- 7.10 p.m.—Market prices of Oranges and
Lemons, by the Victorian Central Citrus
Association.

NIGHT SESSION.

- 7.15 p.m.—Mr. H. C. Fenton, Assistant
Publicity Officer, Victorian Railways,
"TELLING THE WORLD."
- 7.30 p.m.—Mr. E. M. Pearce, "Boys."
- 7.45 p.m.—Miss KENNETH KELLY (permission
of J. C. Williamson, Ltd.), will speak from
her dressing room at the King's Theatre.
- 8.0 p.m.—THE OLD MELODY MASTERS,
"Hinky Minky Bay."
- 8.10 p.m.—THE ROYAL SCOTS, "Maggie
Darling."
- 8.14 p.m.—OLD MELODY MASTERS,
"Hi, Ho, the Merris."
- 8.24 p.m.—MASCOTTE RALSTON,
"Calling for You."
- 8.28 p.m.—OLD MELODY MASTERS,
"My Girl Has Eye Trouble."
- 8.32 p.m.—HARRY WALDRON,
Humorist.
- 8.32 p.m.—OLD MELODY MASTERS,
"Smiling Eyes."
- 8.42 p.m.—ALEC KELLEWAY,
"An Emblem."
- 8.56 p.m.—OLD MELODY MASTERS,
"Calling Me Home."
- 9.6 p.m.—ESTELLE ROSE,
"A Song."
- 9.10 p.m.—OLD MELODY MASTERS,
"Twilight."
- 9.20 p.m.—THE ROYAL SCOTS,
"While the Years go Drifting by."
- 9.24 p.m.—OLD MELODY MASTERS,
"Back Where the Daffodils Grow."
- 9.28 p.m.—MASCOTTE RALSTON,
"Idolling."
- 9.32 p.m.—OLD MELODY MASTERS,
"HONEYBUNCH."
- 9.42 p.m.—HARRY WALDRON,
A Little Humor.
- 9.46 p.m.—OLD MELODY MASTERS,
"Eve Tomorrow Dawn."
- 9.50 p.m.—British Official Wireless News from
Rugby, "Argus" News Service, Meteorologi-
cal Information, Announcements.
- 10.0 p.m.—OLD MELODY MASTERS,
"So Does Your Old Mandarin."
- 10.14 p.m.—ALEC KELLEWAY,
"Original Ten Times More."
- 10.20 p.m.—OLD MELODY MASTERS,
"Paradise Alley."

Grodan Parts for Better Reception



"Wind Your Own" Kit

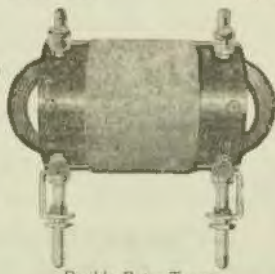
Specifications in this issue of "Wireless
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Tubes, without screen and base, set - - - 1/3



Single Rotor Tuner, Single
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RADION Panels far exceed any other insulating material in the conservation of both physical and electrical energy.

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- 1—Low angle phase difference
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Our new booklet, "Building Your Own Set", giving wiring diagrams, front and rear views, lists of parts and directions for building the most popular circuits, will be sent free upon request to



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The Supreme Insulation

RADION

PANELS ~ DIALS ~ SOCKETS ~ KNOBS

- 10.30 p.m.—THE ROYAL SCOTS.
"Temple of Adonis"
10.40 p.m.—GLO MELODY MASTERS.
"There's a Boatman on the Volga"
10.45 p.m.—ASCOTT BALESTON.
"Bachelors' Reel"
10.48 p.m.—GLO MELODY MASTERS.
"Bye, Bye Blackbird"
10.48 p.m.—Arrangements
11.0 p.m.—ONE GREAT THOUGHT.
"Back to the future the F. is to this world
to what we can best spare"
11.0 p.m.—GLO MELODY MASTERS.
"That Certain Part"
"You Ought to Know"
"Mr. Mamma's in Town"
"Dandelion"
"It Was Your Bus"
11.03 p.m.—GOD SAVE THE KING

3AR, MELBOURNE

MORNING SESSION

- 11.30 a.m.—British official wireless press received from Major Super Wireless Station, Finchley. Wireless train information. "Ace" News Bulletin exclusive to 3AR.
12 noon.—Time Signal Chime, G.P.O. First weather report. Events of the day. Studio barometer and outdoor thermometer readings.
12.30 p.m.—Market selections from the Studio.
12.35 p.m.—Stock Exchange news. Market reports.
12.40 p.m.—Musical selections.
12.45 p.m.—Shipping notes. Mail notices.
1.0 p.m.—Close down.

AFTERNOON SESSION

- 2.30 p.m.—Studio Quartette.
"To a Violet" (Zamparini).
"Sweet Land" (Earl Keweler).
"In Assailie" (Gusty Sellers).
4 p.m.—Time Signal Chime, G.P.O. Second weather forecast.
Studio Quartette.
"Tune Down" (Walter Miles).
"Chas. de Sosa Paroles" (Hermann Helmer).
"Enchanted Forest" (Philip Spitalny).
4.45 p.m.—Evening amusements guide.
6 p.m.—Time signal Chime, G.P.O. Studio barometer readings. 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 rail report supplied by courtesy of Messrs. McPhill, Anderson and Co. Pty., Ltd. Fat sheep and cattle report supplied by Messrs. John McNamee and Co., Ltd.
8 p.m.—Charlie's Dance Orchestra will play:
"My Sweetie Turned Me Down" (Kahn).
"Coclico" (Baby and Broxer).
"The Night in Araby" (Rose and Snyder).
8.15 p.m.—Miss Lyle Burns, contralto.
"The Lovers' Quarrel" (Hughes).
"Down Here" (Brasler).
8.25 p.m.—Mr. Frederick Beckwith, F.F.C.A., F.I.P.S., will speak on "The Science of Education".
8.3 p.m.—Mr. James Melhoin, tenor.
"McGreegor's Gathering" (Old Scotch).
"Ye Banks and Braes"
8.45 p.m.—Miss Lucy Sharp, soprano.
"The Moorish Maid" (Parker).
"The Garden of Your Heart" (Dorrell).
8.50 p.m.—Charlie's Dance Orchestra.
"Back where the daffodils grow" (Donaldson).

- "Honey Bunch" (Friend).
- "Close your eyes" (Voni and Vincent).
- 9.2 p.m.—Mr. Rupert Woods, M.S.S., Sydney Diabetic, Secretary to the Food Education Society of Victoria, will speak on "Stomach Troubles, Their Cause and Prevention."
- 9.25 p.m.—Miss Lora Burns, contralto.
- "Rondo Song" (Beyberg).
- "Valse" (Russell), by request.
- 9.50 p.m.—Mr. James Meidon, tenor: "Merry of Arzyle" (Old Search).
- "Alone Water"
- 9.55 p.m.—Miss Lucy Sharp, soprano: "Yesterday" (Blair).
- "Waltz Time" (Blair).
- 10.15 p.m.—Clark's Dance Orchestra: "Eight" (Nicholls).
- "Summer rain brings the roses again" (Mether).
- "Villa Ross" (Dessa).
- 10 p.m.—Time Signal (China, Station barometer readings "Ave" News Bulletin, exclusive to I.A.R. Tourist and road information supplied by the courtesy of Pioneer Tourist Craches Pty. Ltd.
- 10.15 p.m.—Leage's Dance Orchestra.
- 11 p.m.—Time Signal (China, G.P.O. Close down.

4QG, BRISBANE

MIDDAY SESSION.

- 12.35 p.m.—Tune In.
- 1.0 p.m.—Time Signal.
- 1.4 p.m.—Market Reports; Weather Information; "The Daily Mail" News; "The Daily Standard" News.
- 1.10 p.m.—From Hotel Carlton: Lunch Music from the Lounge, Hotel Carlton, played by Hotel Carlton Symphony Orchestra.
- 2.0 p.m.—Close down.

AFTERNOON SESSION.

- 2.35 p.m.—A programme of Music from the Studio.
- 4.15 p.m.—"Telegraph" News Service.
- 4.30 p.m.—Close down.

EARLY EVENING SESSION.

- 6.0 p.m.—Daily Standard News Announcements.
- 6.30 p.m.—Bedtime Service by "The Sandman."
- 7.0 p.m.—Market Reports; Lectures: "Electro-culture—results achieved in Australia," by Mr. D. W. Chandler.
- 7.30 p.m.—Stock Reports; Weather News; Announcements.

NIGHT SESSION.

- 7.45 p.m.—Lecture—A talk on books by Mr. W. A. Bruden, McLeod's Bookstore.
- Silkstone Apollo Club.—The first portion of tonight's programme will be provided by the Silkstone Apollo Club (conductor, Mr. E. Westwood) Chorus, "Awake Aslan Lyne"; Silkstone Apollo Club, pianoforte solo, "Toccata in F-Major" (Saint Saens); Miss Nancy White, song, "Friend of the Brave"; Mr. V. Morris, chorus (by request), "Comrades in Arms"; Apollo Club, quartette, "In Absence, Messrs. A. Wilcox, James Jenkins and Wathan, chorus, "The Belonged"; Apollo Club; recitation, selected, Mr. D. Owens; pianoforte duet, "Hebrides" (Mendelssohn); Misses Thelma Marsh and Nancy White; song, selected, Mr. E. Westwood, chorus, "Dear Little Shantrock"; Apollo Club; quartette, "Absent," Messrs. Wilcox, James, Jenkins and Wathan; duet, selected, Messrs. Westwood and Morris; pianoforte solo, "Polonaise in G-Flat Major" (Chopin); Miss Thelma Marsh, I.A.B., L.T.C.L.; chorus, "Evening's Pastoral"; Apollo Club; song, selected, Mr. A. Elliott; solo and chorus, "Image of a Rose"; Apollo Club (soloist, Mr. E. Westwood); pianoforte duet, "Hungarian Dance No. 6-8" (Brahms); Misses T. Marsh and White; song, "Marie O' Mine"; Mr. V. Morris; chorus, "To the Death"; Apollo Club; recitation, selected, Mr. D. Owens; chorus "Crossing the Plain," Apollo Club.
- 9.15 p.m.—Band Concert—From the Rang Room. An impromptu programme of Music by the Greater Brisbane Municipal Concert Band.
- 10.0 p.m.—From the Studio: "The Daily Mail" News; Weather News. Close down.

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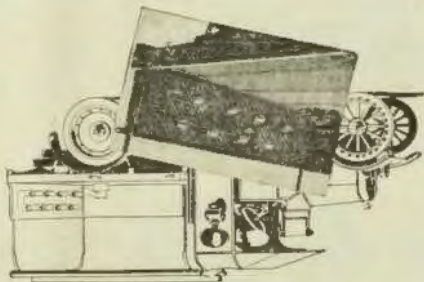
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EIGHT "LOTUS" Valve Holders fitted with large power valves and fixed to tailboard of Ford Motor Lorry, driven over rough roads for 30 miles, survived the test. At the finish, each spring was as it started—perfect. No damage or looseness at connection of leg socket and spring—no valve loose from the holder. Both were electrically perfect all the way.

Fit the "LOTUS" to your set, and protect your valves.

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- Valveholder with terminals 4/6
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THE VERY LATEST

The Balkite Trickle Charger

A LONG FELT WANT NOW FILLED

The Balkite Trickle Charger may be connected to any 6 volt radio "A" battery of 30 ampere hour capacity or more and left permanently on charge. This is known as trickle charging. Used in this manner, it automatically keeps the "A" battery always at full charge. It converts your "A" battery into a permanent "A" power unit that operates from the light socket and furnishes full current to the "A" circuit at all times.

With any smaller battery (4 volt or small 6 volt) this charger may be used as an intermittent charger of the usual type. Whoever a low-priced charger is wanted it has no superior. When used in connection with the low-capacity batteries offered by leading manufacturers it makes possible a most

economical installation for sets now using dry cells. With small batteries this charger can also be used as a trickle charger if a resistance is added to cut down the charging rate to the needs of the set.

When used as a trickle charger, as an added convenience, some owners add a switch, which cuts out the charger during operation. Switches of this type also turn on Balkite "B" when the set is turned on, thus providing an entirely automatic current supply for both circuits.

The Balkite Trickle Charger is 5½ inches long, 2½ inches wide, 5 inches high. It may be put in the usual dry cell compartment. Charging rate, 4 to 5 amper. Current consumption, 1.10z per hour. Operates from 220-240 AC 50 cycle current.

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Provides "A" current from the light socket

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6WF, PERTH

- 12.30 p.m.—Tune In
12.35 p.m.—First Local News Bulletin. Market Reports. Cable.
1 p.m.—Time Signal from the Perth Observatory.
1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—STUDIO QUARTETTE
2 p.m.—Close down.
3.30 p.m.—Tune In.
3.35 p.m.—Musical programme, including phonograph selections by Miss KVELYN WILLIS, & C.O.M.
4 p.m.—STUDIO TRIO.
4.30 p.m.—Close down.
5 p.m.—Tune In.
5.05 p.m.—Stories for Tiny Tots, by Auntie Kitty.
5.20 p.m.—Duke Duffy will talk to the kiddies.
5.35 p.m.—Stock and Share Intelligence. Market reports. Cable. News by courtesy of "The West Australian."
5.50 p.m.—Time Signal from the Perth Observatory.
6.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
6.2 p.m.—S.W.P.'S STATION GUICHETTES. Conductor, Mr. RONALD E. MAYLE, A.T.C.U.
6.30 p.m.—Talk, "My Recent Travels in India and Ceylon," by Mr. JEREMY CHARLES.
10 p.m.—Second News Bulletin, supplied by courtesy of "The Daily News."
10.05 p.m.—Close down.

Friday 28th, January

- 12.30 p.m.—Tune In.
12.35 p.m.—First Local News Bulletin. Market Reports. Cable.
1 p.m.—Time Signal from the Perth Observatory.
1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—STUDIO QUARTETTE
2 p.m.—Close down.
3.30 p.m.—Tune In.
3.35 p.m.—Musical programme.
4.30 p.m.—Close down.
5 p.m.—Tune In.
5.05 p.m.—Musical Evening for the Kiddies, by Auntie Evelyn and Uncle Henry. Little Ducky and Duffy.
5.25 p.m.—Stock and Share Intelligence. Market reports. Cable. News by courtesy of "The West Australian."
5.50 p.m.—Time Signal from the Perth Observatory.
6.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
6.2 p.m.—Musical programme, including A.T.C.U. hits.
10 p.m.—Second News Bulletin, supplied by courtesy of "The Daily News."
10.05 p.m.—Time down.

**WIRELESS MAST, 90ft high—
Channel Iron Case guy ropes and
stays, recently erected at Colonel
Arnott's late home, Strathfield.**

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four valve sets, complete with
all equipment, in handsome silky
oak floor cabinets. Demonstration
by appointment.**

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"SILKARE" Drive Road
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Listening a Lost Art

A PHYSICIAN of note remarked the other day that listlessness is one of the ills of the age. This may be an over-statement, but one can hardly hold it unjustified.

Listening seems to be a lost art, an amenity, if you like, of that age which we wistfully speak of as "the good old days," when there were everywhere fewer distractions for ear and eye and mind.

Listlessness has grown to be not merely a habit, a phase of the vice of impatience; it is in danger of being flaunted as a virtue. Boredom, whose outward and visible symptom listlessness often is, has developed into a cult with some people. The bored man and the bored woman are familiar types in contemporary fiction because, worse still, they are familiar figures in actual life. To be bored, to be listless and inattentive, is evidence, we are told, of a superior intellect, a mind so deeply concerned with its own tremendous problems and speculations that it has no time for your little affairs, or mine.

Ask yourself how many good listeners you know. The question affords surprises. There are few of us who can name a friend or acquaintance of whom it can be said with conviction that he or she is a good listener. Yet there are not many of us who do not value the friendship that brings to our woes a sympathetic and patient hearing. A poet once said that his passion for the woman who figured most prominently in his life arose out of her "divine gift of listening."

Listening is of primary importance on the stage, for instance, because if an actor cannot listen, he cannot give the impression of being engrossed in his part, and if he is not engrossed in his part, his audience certainly will not be engrossed in him.

But listening is not a matter of acting. It means that one is interested, intensely and vitally so.

Unfortunately, many of us have lost the knack of being wholeheartedly interested in anything except our own problems.

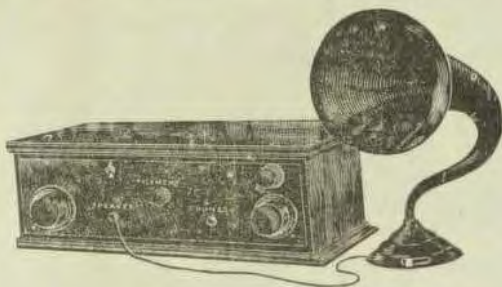
But if this is as true of us now as it has been hitherto, one at any rate sees an influence very much to the good in broadcasting. It is not merely for technical reasons that wireless compels us to listen, but because it is giving us a great new interest—indeed, a variety of new interests.

By so doing it is bringing back qualities of mind that are badly needed just now. It is "taking us out of ourselves"; it is sharpening our critical faculties, and it is causing us to think.

It will not be the fault of wireless if listlessness is not soon numbered among diseases that are extinct.

—B.P.

Guaranteed Workmanship & Clarity of Reproduction



The 'D.J. STANDARD 4'

£25

Absolutely Complete No extras to buy

This powerful and highly selective Set is simplified to the greatest possible extent, there are no moving coils to change or get out of order—only two dials, so simple that anyone can regulate the tuning. Once tuned in the "D.J. Standard 4" remains stable. There is no difficulty in picking up whichever station you want—all inter-State Stations at Loud Speaker Strength (except Perth).

Here is what you
get for your £25

4 B 406 Phillip Valves, 4-volt, 33-amp. Peto-Radford Accumulator, 2 large capacity Volton "B" Batteries, 1 Trimm Entertainer Speaker, 1 pair Trimm Dependable Phones, 2 Phone Plugs, 100 feet of Aerial Wire, 30 feet of Insulated Lead-in Wire, 4 Insulators, 6 feet Flex Wire for connecting Batteries, 1 Lightning Arrester. The whole encased in handsome cabinet of polished maple.

Buy it on Deferred Payments

You can now have the pleasure of securing the "D.J." Standard-4" delivered into your own home on the deposit of £2 10/-; balance to be paid at the rate of 9/6 per week, to be completed within 12 months.

DAVID JONES'

New Price - - 45/- Each Thanks to the
Radio - I've had
a wonderful time



Brandes

The Table-Talker

makes a friend of the electrical impulse

Acoustics is the science of sound. Radio acoustics is the science of transforming the electrical impulse into a audible sound. The electrical impulse is a jolly little fellow who needs to be consulted if you are to get the best out of him. We've been making friends with him for seventeen years and the *Table-Talker* is but one result of our efforts. The goose-neck horn means clearer and more rounded tones, and the patent material of which it is constructed eliminates any suggestion of harshness or metallic resonance. Fitted with an adjustable diaphragm, it is finished in a pleasant shade of neutral brown. Height 18", bell 10".

Ask your Dealer for Brandes.

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SYDNEY Broadcasting Stations have received sheafs of complimentary letters thanking them for the excellent entertainment which the writers have enjoyed over the air during the past year. Many of the correspondents have never before been in communication with the radio-casters, but they seem to have been unable to allow the season of good will to pass without a kindly thought for the men and women who have been entertaining them.

Here is a typical letter written by a Geercoft resident to the woman announcer of Station 2BL:—

"I feel I want to write to you and wish you the compliments of the season. I listen to you each morning and really enjoy your talks, not only for their commercial value to those who have a home to care for, but for the beautiful thoughts you have for little children. I think your talk on the holidays was great. If only parents would take your remarks to heart and really get to understand their children and each other what a lot of trouble and unhappiness would be avoided. I am sure many mothers miss a great deal of joy in their children because they don't or can't find the time really to study them . . ."

A woman writing from Katoomba to Station 2FC says:—

"Kindly accept our thanks for the splendid programmes that we have enjoyed for some time past, also a word of thanks to the whole of the 2FC Staff, who so cheerfully take so much trouble to give enjoyment and pleasure to others."

Another woman at Gooloogong writes to 2FC:—

"Thank you so much for putting on that prettily worded record this morning. We enjoyed it while we had breakfast, and we enjoyed the dance music last night also."

It will be noted that the writer does not give the name of the record and the officials of 2FC have not been able to decide which of half a dozen records she was referring to.

Vision in Darkness

THE news that an inventor has discovered a new ray, invisible to the eye, but which can cause photographs to be taken in the dark, comes with force at this time when wireless is in a state of flux. There can be no question that the new discovery will in a few years revolutionise wireless as we know it.

Something of long-distance television has been known, of course. Photographs have been wirelessed, and it has just been a matter of development when we could expect to sit at our headphones or loud speaker and watch as well as hear such things as football matches and races. Generals could sit back at H.Q. and watch the progress of a battle they had planned for. More, they could direct the chances and changes of the fray from security.

The new discovery outdistances all this. Now night pictures can be shown with the same ease as daylight ones, and the movements of enemy troops (and our own) can be known with certainty—until, as is always the case, the answer is invented. I am rather tired of hearing that this or that will "revolutionise war." We were told that aeroplanes would. "What could live?" we were asked, "when great flying-machines over our heads are dropping high explosives?" The whole population would be wiped out at one fell swoop. Well, nothing like that happened. True, damage was done, but only a small percentage of hits on targets was registered. Then poison gas was to do the trick. Masks were invented in a few minutes, comparatively, and poison gas had another guess coming.

Then it was tanks. These great monsters were to roll on and over trenches, mopping up everything in their track, themselves invulnerable because of their tremendous armour. We all know how tricky the tanks were, and how they lay like beetles on their backs because of the answer the Germans worked out.

So with the new ray. The answer will be found in war. It is in peace that I look for the greatest developments. What a wide scope opens out before a station when it can go out with a camera and a transmitting set and give listeners the complete result, aural and visual, or its night prowls. Won't it add a new terror to criminals? The night patrol will have the invisible ray on them as they work, transmitting back to headquarters the actual act in which the

criminals are being taken. What evidence! Transcending the use of law courts altogether.

And private detectives! Worse and worse, when a man cannot go for a little beach stroll with an attractive girl without a horrible feeling that an invisible ray is stealing from the shelter of li-tree and is taking a picture of his kisses and getting "an earful" of his vows and protestations. Sometimes I think that the best thing to do with these confounded inventors is to put them into a lethal chamber. However, we shall see what we shall see.

Are Gramophone Records Acceptable on the Air?

CORRESPONDENCE received by 2 F.C. shows that a small battle is being waged over the broadcasting of gramophone records. A large batch of letters has been received, asking why many of the beautiful records regularly broadcast in the daytime programmes are not reproduced at night. On the other hand, another group of writers take the attitude that many of these records should have been dropped out during the day, to be replaced by vocal items.

The rendition of records is not a simple or money-saving matter as many are prone to think. Every record that goes on the air costs the broadcasting station 8/- for copy-right, and as these records occupy but a short time, this builds up a tremendous bill at the close of every day. In the selection of these records, 2 F.C. goes to a great deal of trouble. Mr. Ewart Chapple, the studio accompanist, visits the publishers personally, and selects the advance releases most suitable for broadcasting.

The attitude taken by those favoring the more common use of the records is that in this way an opportunity is given to hear world famous artists over the air, and they contend that a better selection is thus given for programmes than can be obtained from purely local talent. 2 F.C. invites further expressions of opinion on the question as to whether some of the very best of the records might not be interpolated at various times during the night session.

Announcing

The Height of Quality

Achievement by "Radiokes"



Showing the construction of our Shielded T.R.F. Transformers, "Radiokes" latest contribution to the art, of which we are justly proud.

Designed and manufactured in accordance with latest and best screening practice.

You already know from your own experience that "Radiokes" quality products are the best obtainable, and we can assure you that your trust in our "canned coils" will not be misplaced.

When better apparatus is wanted "Radiokes" will make it.

Metropolitan Electric Co.
Ltd.

27-29 King St., Sydney

All Readers' Queries Answered Here

In conjunction with Farmer's Broadcasting Service the Technical Editor of "Wireless Weekly" will answer all listener's queries arising from the wavelength change. Answers will appear in these columns and will be broadcast from 2FC each Thursday night.

F.A.B. (MORMAN)—Q. (1) Has the Midget condenser in "Wireless Weekly" Receiver "The Capacity Coupled One Valve" five or thirteen plates?

A. This Midget condenser has five main plates, three fixed and two movable. The diameter of the plates is approximately one inch.

Q. (2) Can I add a stage of transformer coupled audio frequency amplification to this receiver?

A: Yes. Follow the instructions in "How to Add a Stage of Audio Frequency to Your Present Receiver," described in "Wireless Weekly," 1/1/27. A three and a half to one transformer is perfectly suitable but the choice may be depressed with. This can be determined by individual experiment. If two stages of audio are required, I suggest you use a five to one transformer in the first stage and a three and a half to one in the second stage. It is almost standard practice to have the chassis in the mains lead of the A battery.

B.R. (BERALHA)—Q. (1) What height do you say an aerial wants to be for a four-valve set?

A: Tell me the kind of set first. For your purpose an aerial of approximately forty feet high and one hundred feet long overall, will be suitable for most purposes.

Q. (2) What size of wire is the best?

A: Use either 3/32 gauge or 5/32 gauge.

Q. (3) Would you name a few good earths?

A: Here's two—Fuller's earth and potiers' clay. But for radio purposes I suggest you connect to your waterpipe if this is embedded in the earth. Failing that, subject your earth to a lightning rod and bury it in the ground. A sheet of galvanized iron or a length of waterpipe, a sheet of copper, or a coil of bare wire, all serve equally good purposes for earthing purposes.

W.J. R.H. (ADELAIDE)—Q. (1) In the "Capacity Coupled One Valve" please let me know the sizes of the variable condensers, what is number of leaves, etc. I have two 25 plate Ormond condensers, each 0005. Should number four condenser be a P405 7 or a P404 10 plate? On the photograph on page 10 there are seven terminals. What is the centre one for?

A: Your Ormond condensers being as you say .0005 infd, exactly conform to the specification as regards capacity, and are therefore thoroughly suitable. No 4 condenser is a Pilot Midget condenser. See reply to F.A.B. (MORMAN). You are quite right regarding the photograph showing seven terminals, but in the top right hand corner of Page 10 this is explained away. Read it again.

W.D. (DECA)—Q. (1) Would I gain anything by adding a potentiometer to the Fleming Drake or Neutrodine?

A: Not much. Better leave it alone.

Q. (2) Would a Contrelab Radiomir be an advantage in either of the above?

A: Yes. It will assist you in neutralizing. For further particulars, see "RADIO," 12/10/26.

Q. (3) Am constructing a set for KDKA and low wave distance work. Names some valves especially suitable.

A: Generally speaking, all valves are much alike, and it really boils down to a

matter of opinion. There are certain valves designed for a specific purpose, such as power amplification. It would, therefore, be obviously foolish to use this type of valve as a detector.

Q. (4) Can one expect the same volume from valves using low filament voltage as from those requiring a high one?

A: Practically speaking, yes, provided their characteristics are understood. I may go as far as to say that in the future most valves will have a low filament voltage.

Q. (5) I am interested in the Emmo Super-Hot, etc, but think it was an unhappy choice for them to match such a glutton of a valve as Radiotron UX201A. Just how much would results be affected if, say, Cosor Point One Valve were used?

A: The Emmo Super-Heterodyne kit has been designed to function with the above-mentioned type of valve or with G. & R. Valves. After all, only seven valves are used for the average purpose, and although one-and-a-half-quarter amps are consumed by the filament at the same time the milliamperage draw from the B battery is limited to a very great extent—practically negligible. In fact, there is no reason why the valves you mention should prove satisfactory. Personally, I haven't heard anything about the microphone attachment that you speak of.

B.H. (NORMANBURST)—Q. My B batteries have run out, and before starting the collection of all accessories B battery, as described in "Wireless Weekly" recently, I would like to know if it is possible to cut down the current from lighting mains by means of a transformer for use instead of a B battery.

A: Yes. There is such a thing as a B battery eliminator on the market today, and one different makes, in fact. At some future date I will give constructional details on how to make a B battery eliminator, but I won't promise any particular date.

Q. (2) As the first valve in the Harbess Heflex sets as an audio as well as a radio frequency amplifier, which Cosor Point One Valve is most suitable?

A: Yes, the Cosor Low Frequency Valve.

Q. (3) What type of socket does the Cosor Point One require?

A: Standard American types are fitted in the Cosor valves, but at the same time they will fit the U.K. valve sockets.

A.B. (MORISSET)—Q. (1) I have a three-valve three-bolt receiver which I want modified and using Radiotron 201A valves and United transformers. I also have a jack for each valve. I get fairly good results on two valves, but when the third valve is plugged in, and rheostat turned on, it runs and howls which makes it impossible to tune in any station. Would you advise me to re-build and mount on a chassisboard, and would a C battery be advisable?

A: Evidently you are using two different makes of transformers, so that your primaries are reversed. Overcome this by reversing the primary of one of the transformers, the second one for example. And don't forget to put them at right angles to one another. Your sketch shows them parallel to one another. Also substitute an S.C. Jack for the D.C. Jack in the last stage. The two terminals you mention are useless.

H.A. (GLEBE)—Q. I have constructed the Reprints of "Wireless Weekly" 31/12/26, and find it to be the most collective circuit I have yet had, and within ten minutes of connecting it up I tuned in 2BL and 2FC, which could be heard on the speaker, and on the phone. TUE, SUW, 3LO, 4GK. I have since been trying to add a stage of radio to the circuit, to try and convert it to a four-valve, but have not met with success, so would you let me know through your paper of any suitable radio stage to add to it?

A: Yes, see "Wireless Weekly," November 6th, for particulars of the Marco Four Valve Receiver.

E.W.B. (BUNGONIA)—Q. (1) I have a five valve receiver, and would like to know why I cannot pick up any inter-State stations in daytime when I can pick them up very clearly at night. 3LO's is very clear.

A: Daylight is not so conducive to good reception as is the night time. Radio signals travel infinitely better at night time than they do during the day. You are not the only person experiencing the self-same difficulty, and I am afraid I cannot help you very much.

Q. (2) My aerial is 50 feet long with 38 feet lead in, and 25 feet earth. If I reduce the lead in and add to the aerial, would that improve matters?

A: Leave the lead-in alone, but reduce the earth wire.

Q. (3) Can you please explain why sometimes the music and speech from all stations will go right to practically a whisper in the loud speaker? What causes it, and how can it be altered?

A: I wish I could explain, but I am afraid I am like the rest of the world, yourself included, I don't know. The phenomenon you speak of is known as fading, but just why it is and who, why or wherefore causes it, no-one seems to know. Many theories are advanced by scientists only to be shattered and poor little me looks on and wonders.

Q. (4) How long would a B battery run on an average of eight hours per day?

A: That depends on the valves you use and the size of B battery employed, and whether or not you use a C battery, and many other governing factors. Still, write to the New System Telephone Company, of 288 Coleridge Street, Sydney, mentioning this page, and you will be forwarded a booklet full of information on B batteries.

W.R. (HANKSTOWN)—Q. (1) Re Duplex Heflex, will you please advise me if it is possible to wind own radio frequency transformer in lieu of the A.W.A. specified, in view of the fact that I only want the receiver to tune up to 500 metres?

A: You can certainly do so, or substitute two Henaycomb coils, such 80 turns for primary and secondary. Make these variably coupled.

Q. (2) Would two Henaycomb coils be required for the second radio stage (L2 and L3—the latter tuned with 0005 variable condenser)?

A: Fifty turns coils will do in each case, or if more selectivity is desired substitute 25 or 35 turns for L2.

Q. (3) Would two B406 valves be suitable for the radio and audio frequency valves with a Radiotron 195 detector?

A: Yes, quite suitable. Thanks for your report on the Intercom. Certainly it is a wonder machine.

T.W.E. (HARPER), D.—Q: I am enclosing a drawing of the circuit of a two valve radio set, which has been working satisfactorily for the last six months, at least speaker can hear, using an Aerolite & L.E. B. I tried last night, when a crackling noise sometimes drowned the announcer's voice, although the music was as loud as before; this is the first time it has occurred. I have tested all my components and had the set checked.

A: I gather from your letter that you have not tested your B.L. tubes. They must be worn out, as the symptoms you mention are typical of aged B. batteries. The circuit might be all right.

M.A.O. (PETERHAM), Q.—(1) Are Radiolux Circuits suitable for a Neutrodyne set?

A: Certainly, inherently suitable.

Q: (2) Are (two) OEA Commanders recommended, S.L.H., quite A., with Elmoval verter tubes?

A: Perfectly suitable. Regarding your other remarks, (3) I also please note I had no previous experience for your set not working correctly. Really, you know, I didn't build it and in referring you to our companion paper, "RADIO," I do so in good faith, with a view to helping you over the difficulties quickly. After all, the cost of "RADIO" is sixteen shillings, and surely it is worth expense to get out of your dilemma. The circuit printed in your set will appear in "WIRELESS WEEKLY," but mine was not built in a day, and just as soon as I have something perfectly simple and simply perfect, I will pass on the information. Be fair, may be fair.

G.M.C. (CHATEWOOD), Q.—I wish to construct a Brownian Brake Receiver, and I have a condenser and coil set (100 & 100). Will it be possible to use these without impairing the efficiency of the receiver?

A: Yes, quite possible, but at the same time, I would rather use our circuit (100 & 200 & 100) panel, as the results will be quite better.

W.H.H. (BEXLEY), Q.—I am experiencing some trouble in charging the accumulator battery described in "Wireless Weekly," of 19.11.26. The charging lamp is a 60 watt lamp, and I have connected it with the coil. I have had it slight for a long time, but there is no sign of a chocolate appearance, nor is there any sign of electricity. When trying to discharge the battery there is a frothy appearance in the soda jar. If you can inform me where I am wrong, I would esteem it a great favour.

A: Pay close attention to the length of aluminium immersed in the electrolyte. Try varying length, until the bubbling effect in the glass of water from the two leads. You know, I do not whether you tried to discharge it, accumulating through the lamps. The solution formula is not immediate, but takes a little time before the plates form.

A.T. (GORDON), Q.—I have built the Benzart, described in "Wireless Weekly," 15.11.26, but I cannot break it up. How can I rectify this?

A: Install a Bradley bulb instead of a fixed grid leak.

AEMIAL (CORPETH), Q.—(1) Using a three valve set, viz., 2 60 amp valves, and one Radiolux (IX) but, since I had drain on a battery (dry cells) rather heavy, I found it more economical to employ Anplion Carbon cells.

A: Yes. Perhaps your valves want re-rectifying. Then time to an advertiser in the "Wireless Weekly," and he will rejuvenate them for a few shillings.

C.F. (NEWTOWN), Q.—(1) (2) (3) I use two 6005 m.f.d. condensers instead of (00025 m.f.d. as specified for the "Vincos Minter")

A: Yes, but always stick to the original values.

A Radio Church

By C. C. Fagham.

IN the course of a noisy ramble I stayed at the pretty seaside village of Mona Vale on the road between Minto and the Hawkesbury River, a place noted for its surf beach, swimming pool, rock fishing and golf links. There I found what was to me even more interesting—a radio church.

Mona Vale has three or four churches, but the resident clergymen with a multiplicity of other duties, find it impossible to hold services more than perhaps once on a Sunday. The gap is filled, at least so far as the Methodist Church is concerned, by a radio receiving set. In that church on a Sunday night (Boxing Day) I discovered a little group of worshippers gathered around a loud speaker. The set was operated by an earnest young man who combines religious fervour with the zeal of a radio enthusiast. Every Sunday evening he is in the Church with his radio tuned in to one of the city or suburban Churches, which is being broadcast.

He is no strict denominationalist. The first time I visited the church St. Jude's Church of England, Randwick, was being broadcast by 2BL. We heard the whole of the service. Then with a twist of the dial the operator brought in Peterham Congregational, which was being broadcast by 2FC. We were just in time to hear the concluding hymn and the benediction.

Two or three things struck me very forcibly—first that radio use in this way tends to break down denominational differences. Here we were sitting in a Methodist Church and in two evenings we heard the services of a Presbyterian and Baptist preacher and two Church of England Clergymen. I see by the programme that the following Sunday (January 9) included a Congregational Service and as a matter of regular routine, I learn, all the leading denominations are on the air at least once a month, excepting the Roman Catholic, who apparently prefer to be broadcast less frequently and on special occasions, such as on Christmas Day, when Dubois' Mass was placed on the air.

The next thing I noticed was the reverential air of the listeners. The absence of the preacher causes the listener to pay closer attention in order to miss nothing of the discourse. This intensity of expression on the part of those in the church results in a silence broken only by the words and music proceeding from the loud speaker. The congregation, of course, join in the singing and sit with bowed heads during the prayers just as if the pulpit were occupied.

The discovery of this radio church left a profound influence on my mind. One of the great problems of the churches is the dearth of ministers, but a radio set in the next best thing.

The Making of Haggis

A VIGOROUS argument is going on among the diggers of Randwick Military Hospital as the result of a recent lecture given by Mrs. Jordan from 2BL. Mrs. Jordan is an authority on many branches of cooking, and it transpires that the convalescent diggers make a point of listening to her daily talks on cookery and domestic science.

In connection with the New Year festivities, Mrs. Jordan described how the famous Scottish Haggis is made. The stomach of a sheep, it transpires, is stuffed with the liver and lights of the animal; onions, oatmeal and other commodities are added, and the orthodox method is to quash the whole thing with whisky before it is boiled.

Mrs. Jordan described in detail the grand ceremonial pertaining to the entry of the Haggis, and although her lecture was in most respects a masterpiece of learning, she made one tremendous error by telling listeners that it is optional whether whisky is used or not. Hence the argument among the Randwick Diggers.

One section who were reared on mountain dew, maintain that there is no choice at all in the matter, that Haggis without whisky is not Haggis; the other section agree that the whisky is entirely optional. The first maintain that their pedotal comrades cannot be true Scots, or they would never endorse such a desperate heresy. So the argument goes on.



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