

# Wireless Weekly 3<sup>d</sup>

INCORPORATING "RADIO IN AUSTRALIA & NEW ZEALAND"

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(Registered at the G.P.O., Sydney, for transmission by post as a newspaper).

The "Peter Pan"



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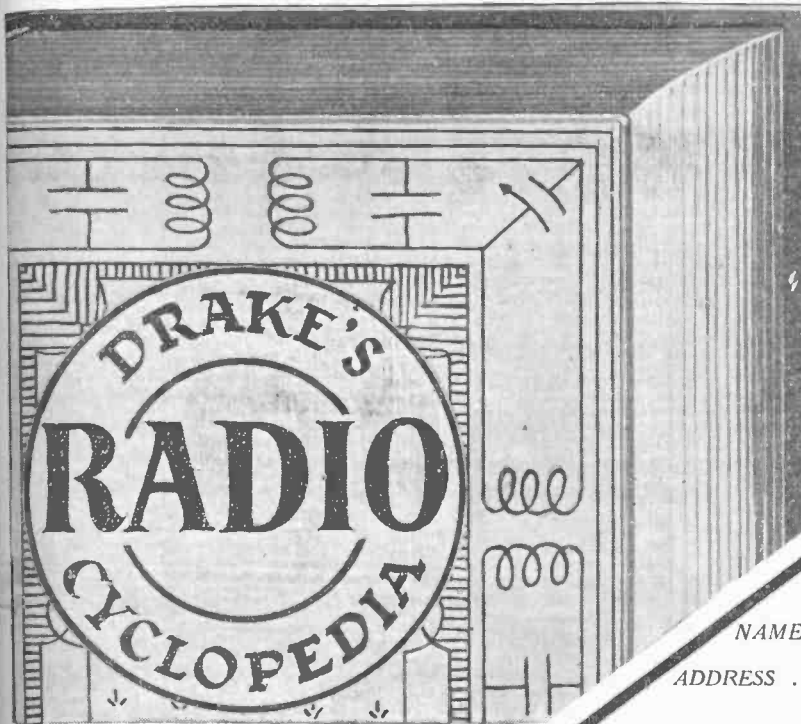
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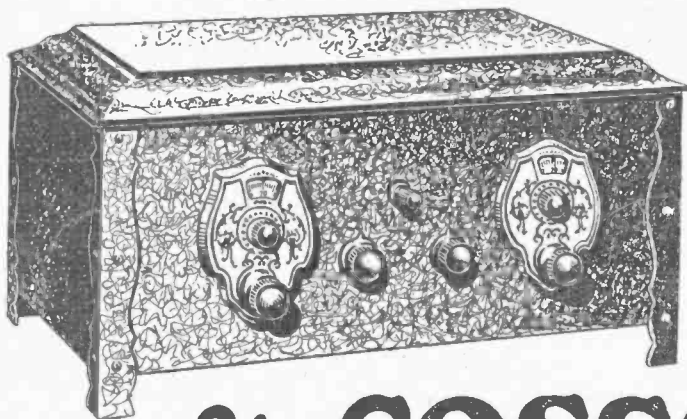
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## The TELEVISION CINEMA

A young Hungarian inventor's development of television for the home. The apparatus illustrated on the right received the transmitted messages of a motion picture film in the home. The invention was shown with some success in Berlin recently.



It has often been said—particularly of late—that television will never be perfected. Baird, the British inventor, sceptically declares that television (though it may be available to the public within a few months as a commercially-made job) will not come into its own for a number of years.

### TELEVISION 1919.

It is generally believed that television has been the subject of numerous experiments during the last few years, yet a young Hungarian electrical engineer named Denes V. Mihaly, claims to have transmitted pictures over a distance, as far back as July, 1919. He holds that his apparatus gave fairly good reproduction, though there was a drawback in the fact that the reception and transmission apparatus was complicated. The claimant published a book in 1922, entitled "Mihaly's Book on Electrical Television and the Telehor."

About that time broadcasting made its debut, and simultaneously economic conditions in Hungary compelled the young inventor to give up his expensive hobby, until in the summer of 1928, when Mihaly perfected a new and simplified system, capable of receiving and transmitting lantern slides and shadowgraphs.

Mihaly's original "telehor" was based on the use of highly sensitive oscillographs—i.e., electrical instruments comprising minute oscillating mirrors, for scanning the original picture at the transmitting end, and re-building a reproduction of it at the receiving end. The rotating disc, as used by Baird, he regarded as a crude makeshift. However, realising the drawbacks of his oscillograph, which did not seem likely in the near future to give even partly satisfactory results, he resorted last year to the once-dispised rotating disc, which he used in demonstrating the practicability of his system. As, however, his work was progressing towards a satisfactory reproduction of lantern-

slides, silhouettes, etc., he came to appreciate the possibilities of the disc, and now seems to have made up his mind definitely to cling to it, the more so as the production of cheap apparatus was, from the outset, his foremost endeavor.

In September, 1928, Mihaly demonstrated his apparatus, remarkably inexpensive, but very efficient, at the Berlin Radio Exhibition. It was remarked at the time that Mihaly's results were superior to those of his German rival, Professor Karolous, who achieved fairly good results with costly apparatus.

Nothing was heard of Mihaly and his work until March, 1929, when he gave a demonstration. After meeting Mihaly and his assistant, Mr. Farago, the audience were left to watch the screen, whilst Mihaly left the room. Presently a face appeared on the screen. The face was visible with only a moderate flicker, and a fair amount of detail, waving to and fro, smoking a cigarette. However, several of the specfators found it hard to pick out Mihaly's features, as the definition was not equal to previous demonstrations given by Baird, the English inventor.

### TRANSMITTED LIGHT.

The main difference between actual television and the tele-cinema, of course, is that while in connection with the former the various parts of the persons televised have to be scanned by reflected light, the case in connection with the tele-cinema is the same as with transmission of lantern-slides—viz., that only transmitted light is used. This, of course, entails an enormous simplification of the television transmitter.

Another difference is that the cinema film already comprises a decomposition of the original movement into successive stages, each separate picture corresponding to a different stage. In fact, all that is required is to scan the whole length of the film once at a certain minimum rate—i.e., ten individual images per second.

Mihaly, like other inventors in the same field, has in the course of his work come to the conclusion that the effect of tele-

vision images cannot be gauged by mere reference to a still picture consisting of the same number of elements. In fact, television images made up of even a very small number of elements will produce much better effects than a still picture similarly composed. This is why Mihaly's 900-element pictures show much more detail than one would be inclined to suppose from so coarse a texture.

In order, now, to decompose a given individual film picture into 900 elements—i.e., thirty rows each of thirty dots, a rotating disc is provided which, near its circumference, comprises thirty small openings spirally arranged at distances apart which each correspond to the distance between two consecutive rows.

If this disc be set rotating at a rate of ten revolutions per second, the beams from a constant source of light behind the disc will, once during one-tenth of a second, pass over the whole of one individual film picture, scanning its various shadings.

### SCANNING DISC.

According to a recent improvement, some sort of diaphragm (stop) is provided, which, in succession, covers up the upper and lower halves of the original picture, thus enabling the half actually bared to be scanned—with a correspondingly greater wealth of detail. The mutual distance of successive disc holes then is only one-half of what is otherwise required. While the size of each perforation in turn is reduced by half, the disc will rotate at a speed twice as high. This is how a greater fineness, or the subdivision of the picture into the double number of rows, is obtained, each of which in turn comprises twice as many picture dots.

Mihaly, like other inventors in the same field; has, of course, long given up the use of selenium cells as light-sensitive devices, using photo-electric cells instead, which are not only more sensitive, but entirely free from any lag or inertia responding instantaneously to any variation of luminous intensity by a corresponding variation of electric current. The special photo-electric cell used by Mihaly has an alkali metal cathode facing a grid-shaped platinum anode, both of which are enclosed in a tube filled with some rare gas, such as argon. The mode of action of this cell, according to tests by Hertz and Hallwachs, is due to the cathode on the impact of light, giving out a flow of electrons. The intensity of the electron stream is directly proportional to the intensity of the light falling on the sensitive surface.

# BETWEEN YOU AND ME AND THE MICROPHONE

### Preferences

A CORRESPONDENT to the N.S.W. Broadcasting Company gives his broadcasting interests in their order of preference as:—Racing, fights, and dinner music, not forgetting Mr. Charles Lawrence. We had not known that Mr. Charles Lawrence was connected with dinner music. We have not even heard him eating soup, and our own order of preference is that we would prefer NOT to hear him in this novel role.



### Now You Tell One

OUR original yarn about Coogee bath heater reception has gained some currency, and has reappeared from time to time in various periodicals among similar tales of magical reception. We are now in a position to cap our own story and all the other stories for a long time to come, as we have just received the following report from a radio fan:—"The other morning I took my A batteries down to the charging station, as my B batteries had run out, and I wanted to start up well when I got my new B batteries. So all the battery attachments were unhooked, and I was just twiddling the dials round for want of something better to do when all of a sudden I heard music; and then the announcement, '2FC, Sydney, calling.' I didn't know what to make of it, as the set of dials was not that of 2FC. Yet the announcement was coming through as clearly as ever before, if not clearer. I did not know what to make of it until I noticed that the water pipe was running perpendicularly to the line of my coils. That seemed strange. Then I noticed that the gas pipe was running quite the other way. That also seemed strange. But, judge of my astonishment, when I found that the electric light wire was running almost parallel to the telephone line, and that they were BOTH IN LINE with my valve sockets! It was a clear case of induction. Let me add that the miracle of these coincidences is not at all lessened by the fact that 2FC was not broadcasting at the time."

## ALL FOR LOVE



THE switch for the light in 2BL's elevator has broken down, and for about four months the light had burnt, day and night. But it is a case of constancy unrewarded. We should not care to estimate how many young men have cursed its extreme brilliancy.

## ALONE HE DID IT



MR. CHARLES YOUNGSON, control operator of 2BL, spent a lonely Sunday night there recently. He was operator, announcer, and everything else wrapped into one for that night, as there was no one else, not even one of those artist things, not even an accompanist, there; for the programme was coming through from church and Kurri Kurri. However, he did not see any ghosts or go through any strange experiences, or fall into any errors of pronunciation, or anything interesting like that, although he said that he grew a little tired of the Mothers' Day ramblings towards the end of the evening, and wished that someone would have a little consideration for the Control Operator's Day.

## THE CORRECT LISTENING ATTITUDE



ONE of our charming contemporaries has become curious as to the correct listening attitude. "Should one sit bolt upright to listen to radio programmes?" it asks. We shall not make the mundane comment that many radio programmes might cause one not to sit, but to bolt outright. We shall instruct our readers from our own experience. Our long years of listening-in have taught us that there is only one way to listen in to radio programmes. One should begin by sitting carefully on the right or left, as the case may be, ear. Thus one follows the course recommended by musketry instructors of closing the right or left eye to ensure correct sighting, and closes the right or left ear, as the case may be, to ensure correct hearing. The next movement is to tie a silk, or otherwise, handkerchief over the mouth. This prevents one interrupting one's reception with abuse of the artists or the programme. The next movement is simple. With a short piece of rope or aerial wire (obtainable at all the best shops), bind the feet and legs tastefully, but firmly. Then do the same with the hands and arms. These precautions ensure safety to the receiver; for the hands, legs, and feet of angry listeners-in have often been the source of irremediable harm to wireless sets. When you have completed these simple operations take up a comfortable position and turn on the current. Many an agreeable evening may be spent in this manner.

### Unproverbial

COALS are at a premium in some Newcastle castles. Largely on account of the Carter. What we mean is, that many people in the country have expressed their appreciation of Mr. Carter's "Bush Sketches" from 2FC. The next thing we may hear of will be that an announcer has expressed his appreciation of another announcer's announcing.



### Finis

THE Radio Exhibition ended mutely but gloriously at about 9.30 p.m. on Saturday, May 11. The last free copy of "Wireless Weekly" was given away at that time to a Salvation Army officer, who took it as an offering for "the destitute." By then the side entrance to the Town Hall had been blocked up with vans and lorries and cars so that it was almost impossible to pass between them. The lorries nearest the steps were soon loaded with electrical gear of all descriptions; but they could not get away for some time as they were hemmed in too closely by other lorries. The stairway itself was like the entrance to an ant heap, crowded with men and boys running to and fro with large parcels of valuable sets and vacuum cleaners and electric light, and Lord knows what. Inside was a scene of stripped desolation—all the beautiful pale blue and white fittings we had admired so much before were in disorder, and little groups of assistants sweated at their moving labors. Everything was to be out by 12 o'clock. The hurry and bustle extended far into the night; at least, we suppose it did, because we did not wait to see it extending.

### Receipt

"GENTLEMEN," says a guy from the "Staytes" to 2BL, Sydney, Australia. "On the night of the 15th of this month I got your station on my radio at 2.00 a.m. Pacific standard time. I received your programme until 6.00 a.m." So let us all throw our hats into the air. "Respectively yours, George B. Cicorich, Esq.," of Bellingham, Washington, has received 2BL! It is accomplished. It is done. It is finished.

## WE GROW BOLD



"IF you could only see in my mind's eye," exclaimed a woman lecturer over the air. This, of course, is not a case for television, but for microscopic X-ray. We do not say this simply of one woman, but of all women, although we hope they don't hear us.

Not on the Programme!

# DUET:

## "Accompanying"

By G. VERN BARNETT and  
EWART CHAPPLE,

of the famous

N.S.W. Broadcasting Co.

at the typewriter: John Ferndike.

**Notis!!!**  
 WE WISH YOU TO  
 KNOW THAT WE ARE THE  
 MOST IMPORTANT PART  
 OF THE PROGRAMS  
 SIGNED CHAPPLE  
 BARNETT



Mr. G. Vern Barnett's studio has two rooms, one a waiting-room and the other a music-room. As one waits in the waiting-room, the strains of delicate music flow under a separating door, and one is soothed considerably. Tax or rent collectors or bailiffs wouldn't stand a chance in Mr. Barnett's waiting-room; for Mr. Barnett is like Orpheus, who, "with his lute made trees," which shows you can do anything with money, and always could.

The walls of the two rooms are covered with photographs of great artists and singers, among whom Mozart, Beethoven, and Mr. Alfred O'Shea are not the least prominent. After a while the strains in the adjoining room relax, and Mr. Barnett opens the door, and beckons one inside. There is a piano, another piano, a desk, several chairs, a table, and a music press. Mr. Barnett, with suave urbanity, motions one to the table, and in courteous fashion asks one to be seated on the most uncomfortable seat in the room. The song proceeds, *allegro ma non troppo*, with a careful rubato on the third beat of each bar.



The whole weight of the programme.

**"ACCOMPANISTS,"** said Mr. Vern Barnett, wearily sinking into an easy chair. "Accompanists are not sufficiently prized by the community, which is, regretably, at large. The very word, 'accompanist,' suggests a kind of weak husband of the muse, designed to be a sort of—er—of—you know—unvarying acquiescence in the awful deeds of singers. Instrumentalists, orchestras, and other dealings of the coy lady. People don't want to think of accompanists. But the fact remains that an accompanist can make or mar any old recital—that is, if the accompanist wishes to do so. Most good accompanists don't—on principle.

You see, after all, an accompanist has some qualities by which he attains to an undoubted superiority over the most educated of rabbits and the most intelligent of worms. A competent authority once gave his definition of the knowledge required of a good accompanist. He should have an expert

knowledge of all schools of music, a working acquaintance with, at least, four foreign languages, and experience and proficiency as a choral accompanist, a vocal accompanist, an instrumental accompanist, an orchestral accompanist, and an organist, and he must know all about the structure of everything he plays, and must be able to fit himself into the feeling of the next piece that comes along. For personal reasons I think this estimate a little too high; but it shows how very few good accompanists there can be in the world.

"The main bugbear of accompanists is singers. Singers are mostly unmusical people." He smiled delightedly. "Of course, there are many singers who have trained themselves as musicians before they attempted voice production or after. One acknowledges these people as a starving explorer in the Arctic regions might acknowledge a meat pie. But there is a certain type of singer whose rhythmical faculties were never made to appreciate the charm of four beats served up nicely in a bar. There is no hope for such people in this life. And judgment awaits them in the next."

"Hear, hear!" exclaimed Mr. Chapple, who had arrived to take Mr. Barnett out for lunch. "Hear, hear." He enunciated his phrasing with touching sincerity and conviction.

"Then," continued Mr. Barnett, "there is the singer temperamental. Temperament in art is synonymous with either ignorance or temper."

"And vanity," said Mr. Chapple.

"And vanity, of course," said Mr. Vern Barnett. "Vanity's the chief ingredient. On one occasion I was rehearsing with a singer who had enough testimonials to buy her a seat in Heaven. A leading violinist was playing the obligato. The gifted singer made mistake after mistake, until an absolutely unforgivable faux pas brought us to a sudden stop. The violinist, noted for a certain cynical wit, said very calmly: 'Madam, it is impossible for me to oblige for you unless

you sing in time.' Whereupon the prima donna remarked: 'Oh, that's my temperament!' 'No,' replied the violinist, 'that's a dotted crotchet!'

"I'll tell you another. A celebrated singer of a decade ago was rehearsing a song with a celebrated organist, and, following the usual vagaries of the prima donna, performed it in a manner hardly in accordance with the composer's intentions or the organist's principles. 'How can I accompany you, madam,' said the organist, 'when you will not sing correctly?' 'Sir,' replied the diva, 'God taught,

me that song!' So the organist said—what did he say, Ewart? I've forgotten."

"He said: 'Madam, I was unaware that the Almighty was giving lessons. But you should have told me before. I am not fit to accompany you. What you want is an angel!'"

"Exactly," agreed Mr. Barnett, who was warming up to his subject. "Then there was that thing about Sir Frederick Cowen. He was conducting a rehearsal with a world-famed singer, who was singing a particular aria in a particularly fancy-free style. After several very awkward situations the conductor turned to her and said: 'My dear lady; I wonder if you realise that this is an orchestra, not an elastic band!'"

"But there are times," said Mr. Chapple, "when an accompanist becomes courageous, and puts his art before every other consideration. This is foolish; but some can get away with it. On one occasion Sir Landon Ronald was accompanying a woman, renowned as a singer, who was not extremely particular about pitch. If she sang a little too high or a little too low it didn't matter. Well, in this song she ended on a note which had to be held for several bars, and she ended a snail-tone flat. So Sir Landon Ronald repeated the correct note while she sustained the wrong one. The audience roared laughing, and Sir Landon Ronald was fired the next day."

"True sacrifice," was Mr. Vern Barnett's comment. "There are certain types of ballads which are full of pitfalls for careless and unwary singers. Songs containing such lines as 'the 'orn of the 'unter is 'eard on the yill,' and 'ow 'igh s' 'aughty honor 'olds 'is 'ead,' present horrible difficulties to many singers. There is a yarn about Tosti's 'Good-bye.' The man who was singing it forgot the next line, which was 'What are we waiting for?' He leaned over towards the accompanist. 'Quick,' he said, 'what is it?' 'What are we waiting for?' answered the accompanist. 'Well, what ARE we waiting for?' asked the singer. 'What are we waiting for?' replied the accompanist. This went on for some time until the singer walked stiffly off the stage, followed by a sad accompanist. As usual, the accompanist was blamed.

"I remember I was to accompany a soubrette at 2BL two and a half years ago. You know soubrettes. Why are soubrettes? The question is asked by all accompanists, but it took Mr. Chapple to write a concrete article on them." Mr. Chapple blushed. "I was to accompany this soubrette," continued Mr. Barnett, "and the announcer gave the title of the song to be performed. Whereupon she shook her beautiful head and faced the mike. I started up with the song which had been announced, whereupon the soubrette began to sing an entirely different song with an entirely different rhythm from beginning to end. She sang the two sets of introductions and two choruses. I played two sets of verses and two choruses—of the other song. The only time she attempted to oblige me was in

the second chorus, when she tried to link the words of the song she was singing into the rhythm of the accompaniment I was playing. You can imagine the result. No protest could be made, because strict silence was enjoined in the studio, and we both had the courage of our convictions. After the tragedy I staggered out, covered in perspiration. The sous-brette turned to the announcer and said: 'You must think I'm a fool. I was very nervous, and didn't know what I was doing. After all, I'm not a singer; I'm a dancer. That's a true story. They are dear little things, aren't they?'

"There was a similar tragedy at 2FC some years ago," said Mr. Chapple. "An instrumentalist came in rather late, and a little the worse for milkshakes to do his stuff. His instruments needed some assembling; and he assembled them—after a new style. The announcer asked him what he was going to play, and he gave him his first number: 'Songs my Mother Used to Sing.' The announcer announced: 'Songs my Mother Used to Sing,' and turned him on. Thereupon he began to play a military march. The notes that were not too flat were too high; and he was not allowed to do a second number. Five minutes after the instrumentalist had completed his military march a taxi driver burst through into the studio. 'I want my ———— three-pence!' yelled the taxi driver. 'I want my ———— three-pence!' It turned out that the instrumentalist had had two shillings in his pocket, and wanted to get to the studio urgently. So he had commandeered the nearest taxi, and told the driver he would take two shillingsworth towards 2FC. Everything had gone well, and the meter stood at one shilling and ninepence until the car reached the turning into Market Street, when the meter jumped to two shillings and three-pence. So the driver, who had been booked in the meantime for leaving his car in a place prohibited to parking, wanted his ———— three-pence. Meanwhile, several very great and very respectable gentlemen were being shown round the studio. However, the driver was ultimately pacified; and he went so far as to apologise to the great and respectable gentlemen who had been in the studio for demanding his ———— three-pence so sanguinely and so loudly. By this it was time for the instrumentalist to do two more numbers. The announcer approached him, and told him there was only time for one number. He had a choice of three—'Songs my Mother Used to Sing,' 'Abe, my Boy,' and 'Humour-uesque.' He told the announcer he would play 'Abe, my Boy,' and said he didn't want an accompaniment. So the announcer told him to watch for the little light in the studio, and left him, trembling in anticipation to announce his number. 'Abe, my Boy,' was announced, and the light flashed on. The instrumentalist hesitated for an instant, then dashed for his little bag in the corner, drew out a piece of music, and slapped it down in front of the conductor of the orchestra, who, with the rest of the orchestra, was awaiting his turn to appear. Always ready to oblige Mr. Keats before the accompaniment, and the instrumentalist began to instrument. But he did not play 'Abe, my Boy,' he played 'The Songs my Mother Used to Sing,' while Mr. Keats accompanied him with 'Humour-uesque,' the music which had been set down before him. The instrumentalist explained afterwards that he had been a bit muddled with all the worry of the evening, and the numbers had got a little mixed up in his head."

"There is also the type of comedian," said Mr. Barnett, "who supplies you with a piece of manuscript, folded up to about the size of a cigarette card. The top line only of his song is given without words or anything else, except colored pencil marks. "Signs like bicycle wheels," said Mr. Chapple,

**A Criticism by the Critic of the well-known "Sydney Blur."**  
**THE BARNETT-CHAPPLE RECITAL**

**Public Pleased**

I attended the "Wireless Weekly" recital on Friday, May 24. I maintained my usual attitude under such circumstances, namely, that of what I presume to be a typical English gentleman.

The papering was quite effective, and the decorations, done in a two-color scheme of black and white, struck a bizarre, but, on the whole, a striking note.

Both singers in the chef d'oeuvre, a duet termed "Accompanying," seemed to be in good spirits and voice; but I was a little pained at their constant show of levity. With such men, a little less gaiety would not have been out of place, and without being wholly macabre—a thing one could scarcely expect an English gentleman to expect anyone else to be—they might have shown a little more of that dulness which conduces to perfectly respectable gentility.

Mr. G. Vern Barnett pleased in several well-chosen items, although his chief ability seemed to lie in a power of connecting a series of irrelevancies into a relevant whole. Mr. Ewart Chapple's handling of his part was subdued, and in admirable contrast with the restraint displayed by Mr. Vern Barnett. The pair worked together most harmoniously, to thundering applause from a crowded gallery. Possibly they constitute the best and most popular combination yet heard in Sydney. We look forward to hearing them again.

A more or less tasteful type-accompaniment was supplied by Mr. James Ferdike.

"Marks like Egyptian hieroglyphics," said Mr. Barnett.  
"And mathematical signs," said Mr. Chapple.  
"One, two, three, and repeat the last verse," said Mr. Barnett.  
"And all totally ununderstandable," they said in chorus.  
"The inference being," said Mr. Barnett, resuming his restraint, "that the accompanist has the gift of prophecy."  
"And of second sight," said Mr. Chapple.  
"And of mental telepathy," said Mr. Barnett, losing it again.  
"They're all hopeless," said Mr. Chapple.  
"D'you know, the other day a chap gave me

the 'cello part of a concerted song so that could play his accompaniment."

"Quite right," said Mr. Barnett. "One night at the Town Hall a famous Scottish comedian asked me whether I would like the 'cello part or the second fiddle to play from. I said the second fiddle; but you can imagine what the accompaniment sounded like. There is the man who comes on the platform or into the studio and says: 'It goes like this—tum, tiddley um-te-um; tum-te-um-te-um.'"

"Yes," said Mr. Chapple, "and they say 'You'll be able to manage it quite easily.' It just goes like this—tum-tiddley um-te-um; but, of course, I'm going to break away from that a little farther on; but you'll know what I come to it."

"Exactly," said Mr. Barnett, "and musicians are just as bad. They say they want a little incidental music. They say: 'Just show what I say, and put in music to go with it; you can do it quite easily.'"

"And the incidental music for each phrase comes in three phrases after," said Mr. Chapple. "I know 'em!"

"Anyhow," said Mr. Barnett, "if these alleged artists think an accompanist can do much, I suppose it is one form of appreciation at least."

"Hear, hear!" said Mr. Chapple.

"But I should like to say that there are some serious artists," said Mr. Barnett, "who realise that a composition begins with its first note and ends with its last note, and that they themselves are only part of a composer's conception. It is a pleasure to associate with and to accompany such artists. Amen."

"Amen," said Mr. Chapple.

"So there you are," said Mr. Barnett, "being one of Mr. Chapple's cigarettes, and being round for his enormous overcoat. You heard what we have to say. Just run like that. You may have to put in a bit and there to make it read properly; you'll be able to do it—it's a quite easy."

**FAVORITE ITEM WEEK**

FROM June 17 to 23 is Listeners' Favorite Item Week. Let us know the item you like best, and, if possible, we will arrange for it to be included in one of the broadcast programs during the week. The following artists are participating:—

- |   |   |
|---|---|
| Charles Lawrence—Entertainer—17th June, 2BL                         | Tom Williams—Violinist—20th June, 2FC         |
| Sydney Calland—Baritone—17th June, 2BL                              | Alexander Sverjensky—Pianist—20th June, 2FC   |
| Albert Cazabon—Violinist—17th June, 2FC                             | Eileen Boyd—Contralto—20th June, 2FC          |
| Radio Male Quartet—17th June—2FC                                    | Eleanor Ross—Short Stories—20th June, 2FC     |
| Dagmar Roberts—Pianist—17th June, 2FC                               | Vincent Aspy—Violinist—20th June, 2BL         |
| Peggy Dunbar—Contralto—17th June, 2FC                               | David Craven—Baritone—20th June, 2BL          |
| Studio Orchestra—17th June, 2FC                                     | Concord Citizen's Band—20th June, 2BL         |
| Ambrose Bourke—Baritone—18th June, 2FC                              | Frank Ryan—Entertainer—20th June, 2BL         |
| Burwood Band—18th June, 2FC   | Mr. Optimist and Mr. Pessimist—21st June, 2BL |
| Theodore Aldison—Baritone—19th June, 2BL                            | Phil Smith, comedian—21st June, 2BL           |
| Graham and Manning—Entertainers—19th June, 2BL                      | Wendling and Molloy—22nd June, 2FC            |
| Classical programme—Lionel Lawson and Gladstone Bell—19th June, 2FC | Rae Foster—Popular Vocalist—22nd June, 2FC    |
|   | The Troubadours—Entertainers—22nd June, 2BL   |
|   | Hawaiian Trio—22nd June, 2BL                  |

Fill this coupon in and forward it to WIRELESS WEEKLY, 51 Castlereagh Street, Sydney. Requests cannot be received later than 1st June.

**COUPON.**

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on the evening of .....



# The MICROPHONE PRESENTS—

## Programme Notes and News From Sydney and Melbourne Studios.

### Classical Programme

THE first classical programme in the June series, to be given at 2FC, will be undertaken by Dagmar Thomson on June 5. Her assisting artists are Alexander Sverljensky, Jules Van Der Klei, William Dallison, and Virginia Bassetti. Lovers of the old masters will find much to attract them in the works Miss Thomson has selected for this evening.

### Herold Kyng

SELECTED by Professor Bernard Heinze during his recent visit to England and the Continent for the staff of the Melbourne University Conservatorium, Herold Kyng, the well-known English basso-cantante, is meeting with marked success in Australia, particularly as a broadcasting singer at 3LO. Mr. Kyng is included in the programmes for special song recitals on Wednesday evening, May 22.



Professor Heinze

### Amsterdam

S. H. BOWDEN has the happy faculty of discovering subjects for his early Sunday evening chats to 2FC listeners, which are guaranteed to make a wide appeal. In June he commences a new series, and the topic for June 2 is "Amsterdam, the Northern Venice."

### A Woman of No Importance

IN response to numerous requests, the H. W. Varna Company will repeat Oscar Wilde's play, "A Woman of No Importance," at the 2BL studios, on Wednesday night, June 5. The action of the drama, with which most listeners are familiar, surrounds Mrs. Arbuthnot, her son, Gerald, Hester Worsley, and the callous Lord Illingworth. W. Varna plays the part of Lord Illingworth, and Miss Stenning that of Hester Worsley. Mrs. Arbuthnot is portrayed by Mariel Conner, and her son by William Blame.

### "Rollicking Baritone"

ALFRED CUNNINGHAM, whose infectious cheerfulness is not the least of his many attributes, has a big following on the air. His work is characterised by a sincerity to which the microphone is particularly susceptible, and through it he reaches listeners who would not otherwise perhaps appreciate the artistic merit of his performance. He was the "rollicking baritone" acclaimed by oversea listeners on the occasion of one of the Empire broadcasts arranged by 2FC. The programme he is preparing for Sunday night, June 2, at 2BL, will include—"It Is Enough" from "Elijah" (Mendelssohn), "Fear Ye Not, O Israel" (Buck), "The Sailor's Grave" (Sullivan), "The Bell Ringer" (Wallace).

### Sunbeam Singers

A DELIGHTFULLY original and varied programme will be given from 3LO on June 1 by "The Sunbeam Singers," who will appear under the direction of Miss Eileen Pascoe Webbe.

### Old Sea Salt's Hour

THE big feature of 2FC's programme on the night of June 3 (King's birthday), is one which will do the hearts of seafarers good—a typical "Old Sea Salt's Hour." The story, supplied by Captain Rees, is redolent with the tang of "white-capped waves and a stiffening breeze," the heyday of the sailing vessel. Typical sea chanties, surrounded by realistic atmosphere, will provide listeners with as unique and colorful an hour as could be desired.

### Northcote Choir

AN interesting programme will be given from 3LO on May 29, by the Northcote Presbyterian Choir, which is composed of twenty-five picked voices, all soloists. Included among their selections is "The Gloria" from Mozart's "Twelfth Mass," together with other excerpts from oratorio.

### Liedertafel to Broadcast

WHENEVER the Royal Victorian Liedertafel is announced an excellent programme is always assured, and their concert on May 27, which will be transmitted from the Athenaeum, promises to be a feast of choral music. An operatic chorus, "The Song of the Pirates," will be sung; an unaccompanied number, "Spin, Spin," will be repeated by special request, and, under the baton of J. Sutton Crow, several other numbers will be given, interspersed with solos by Thexton Morphet. The Liedertafel has been in existence for forty years, and some of the members claim an attendance at every rehearsal.

Free Supplement Next Week. Order your copy now.

### The Sundowners at 3AR

THE Sundowners' Quartette, one of the most popular male voice combinations, will be heard from 3AR on May 26. They have been before the radio public since the early days of broadcasting, and are familiar figures in the social and entertainment world of Melbourne.

### Braille Concert

LISTENERS should not miss the concert to be given in the Braille Hall, South Yarra, and broadcast by 3AR on May 28. Musical items will be given by the favorite "We Four" Quartette, and Dorothy Humphreys, the popular soprano, will contribute solos. The prize essay in the recent Braille Competition, "What Braille Means to Me," will be read from Braille type. Mr. Justice Owen Dixon will speak on "The Braille Writer's Free Lending Library," and the French Consul, M. Rene Turck, will give a brief outline of the life of his illustrious countryman, Louis Braille.

### Malvern Tramways Band

THE Malvern Tramways Band will be heard over the air from 3AR on May 26. Their selections are the "Pique Dame" Overture (Suppe), and the tone-poem, "Loreley," should be greatly appreciated by lovers of good band music.

### The "How" and the "Why"

AT 3AR on May 30 Mr. C. Lynch will tell listeners about "Newspaper Reporters and their work."

### Janssen Programme

THE semi-classical programme, which S. Janssen is arranging at 2BL on Tuesday, June 4, is purposely moulded along lines guaranteed to appeal to those whose musical tastes are not entirely inclined towards the higher classics. The artists participating, although young in the world of music, have already earned favorable comment from the critics, Rene Birkett, Connie Blomgren, and Marie Dawson will contribute violin solos; Dorothy Fountain and Dorothy Farmer are the solo pianists; and vocal items will be rendered by Nellie Ravens and Robert Gilbert.

### Special Band Programme

A WELL arranged programme will be given from 3LO on May 31 by the Collingwood Citizens' Band, under the direction of the popular Bandmaster F. C. Johnston. Included in the selections is a humorous march, "The Piper's Wedding," and the familiar "In a Persian Market," by Ketelby. Muscian J. Branwell will contribute a flugal horn solo, "On Wings of Song" (Mendelssohn), and listeners who enjoy good band music should not fail to tune in on this occasion.

### Al Jack

A NOVELTY pianist of wide experience and considerable ability has returned to 2BL, after an absence of some months. Al Jack, who, for many seasons, conducted his own dance band, is a piano novelist with more than a working knowledge of the classics, and boasts a technique not usually found in the play of jazz. He is working up some new numbers for his appearance at the studio on Saturday, June 1.

### Holiday Item

CHARLIE LAWRENCE is promising 2BL listeners something particularly suited to the holiday on King's Birthday night. To use his own words: "I am always in good form on a holiday. I spend the day on my own enjoyment, and then try and pass it on to others."

### Dawn Assheton

DESCRIBED by an overseas paper as "England's most famed coloratura soprano and singer of folk and character songs from every land," Dawn Assheton comes to 3LO, not as a stranger, for she is well known to Australian audiences, and has had many triumphs on the concert platform during two world tours. With her comes the eminent Hungarian violinist-composer, Laszlo Schwartz. He does not play, but sings, on his wonderful violin. Famous for his compositions, he is also an inspired interpreter of Hungarian and Slavonic folk music and the classics. These two great artists come to 3LO with all the magic of their art, and their success as broadcasting artists was assured from their first appearance before the microphone.



Dawn Assheton

# PEOPLE in the PROGRAMMES

## Mr. H. W. Varna

CONTRARY to the general belief, actors do not just suddenly spring on to the stage from the wings, and vanish forever away when the curtain falls. They go on living just the same; but in a less exalted atmosphere. Indeed, as it may be said of human beings, so it may be said of actors, that they have a Beginning, a Middle, and an Ending. Although no actor would willingly admit this. No actor would worry for an instant over the mundane triviality of the fact that he was born; or attempt to recall his birthplace or reminiscences of his childhood days. These things belong to another world. Art is a life to be lived, and . . . and all that sort of thing. The life of the actor begins when he first steps stiffly on the stage in the guise of second flowerpot or "a centurion of the guard," wondering whether the audience will notice that his hat isn't quite straight, or that his left eyebrow isn't quite so well touched up as his right.

Therefore, Mr. H. W. Varna began life as "utility man" in 1890, in London and the English provinces, as most artists begin life, playing anything and everything, "for sheer love of it" and the sum of one guinea per week. He watched the principals carefully all the while, assimilating their gestures and tones and pauses and hesitations and all the other subtleties you can't learn from text books, until he was able similarly to sustain parts.

When the Prince of Wales' Theatre sent out the play "Called Back," with the late George Rignold, Mr. Varna went with it, and this was his first engagement with a regular touring company. He began playing the young man—Anthony March; but before the tour ended various promotions brought him to playing the character lead, "Macon," the part Rignold played. He remembers that the present Fred Terry was juvenile lead in the company. Lewis Waller was at that time commencing management, and, hearing of Mr. Varna's success, engaged him for second lead to Terry for a further tour.

At the conclusion of this tour Mr. Varna joined the last of the old stock companies—that run by the noted Sara Lane (although we suppose you haven't noted her)—and for three years he played in drama, old English comedy, and in Shakespeare; but whether Shakespeare approved this Jonahesque experiment is not known.

However, what Shakespeare thought about it doesn't matter. We are not discussing Shakespeare, but Mr. H. W. Varna, who,



H. W. VARNA.

during his three years under Sara, had cherished that silent yearning which every actor knows. And that yearning was to appear at the West End. It appears that most acting talent in London rises in the East and forgets in the West that it had ever been in the East. Such is the way of life in other worlds. And at this time there had grown up at the West End, from the undergrowth in the East End, a certain Tree, which towered loftily over all other West End uprisings. Mr. Varna wanted to be a branch of that Tree—the Beerbohm Tree it was named (probably from some tendency to love other people's beer, although there is no direct evidence to support the hypothesis that Sir Henry Tree was a froth-blower). Anyhow, Mr. Varna wanted to be in the Tree's company. D'you twig?

Well, he succeeded in joining it, at the newly opened Her Majesty's Theatre, London. "Oh, the joy," exclaims Mr. Varna ecstatically, "of seeing the name in big type, and spelt correctly, on the long, six foot notice boards in front of the Theatre!"

Then was the days. Mr. Varna showed us some of the old playbills of the time, neatly framed, in his studio. We remem-

ber seeing long lines of illustrious names all on the one bill. A certain Oscar Asch was there; and Sarah Bernhardt played special part in one show. And there were many other names as great as these—on the one bill. And at the foot of the bill was the name—H. W. Varna, Stage Manager. For Mr. Varna's experience had stood him in good stage; and he had been appointed assistant stage manager after few months with the company, and a few weeks after, as the then stage manager was indisposed and peckish, he was made stage manager.

He carried on those responsible duties during the Tree productions of "Her Majesty," "Twelfth Night," "Last of the Dandies," "The Trial," "Trilby," "Flodden Field," "Who Was," "Eternal City," "Darling of the Gods," etc., etc.; and toured the English Provinces with the company.

And then Mr. Varna came out to Australia, commissioned by Beerbohm to produce in American and London success, "The Darling of the Gods," which production was quite successful.

After some time spent in connection with various productions, Mr. Varna retired from the profession, and opened a school of elocutionary and dramatic art in Sydney. From time to time his students have performed before the public for its enlightenment.

Nearly three years ago he began to produce radio plays from 2FC, with his own pupils; and so well were his offerings received that the New South Wales Broadcasting Company made arrangements with him for the production of a play every fortnight. Mr. Varna has already described his production methods in our esteemed publication—how he burns the midnight oil, and blunts his scissors cutting out the irrelevant or unspeakable parts, and wiggling the dialogue to suit the new medium. Many plays have now been presented, among which are notable "Beaucaire," the "Scarlet Pimpernel," "Three Musketeers," "Young Idea," "The Generation," "House in Order," "Lady Windermere's Fan," "Aren't We All?" and "The Man From Toronto"; and many more to be projected for the future.

Mr. Varna is of medium height. His is pinkly cherubic; but at its pinkness it resembles stops, and you get the impression of cherub-turned-man-of-affairs. He has a strong, or decided, taste in tobacco, and when he is meditating revenge on foolish critics of Biblical dramas he chuckles like a child. "O-o-o!" says Mr. Varna. "I like to slam 'em!"

## The Biter Bitten—Surprise Birthday Party for Mr. Cochrane

MR. COCHRANE, "The Hello Man," was given a birthday party in David Jones' tea-rooms by five of his bedtime story-hour nieces a few Saturdays back. These nieces have been listening-in to his stories for nearly five years. The party, arranged by Miss Muriel Valli, of the firm's Children's Club, proved a decided success, although the unlucky rain prevented a very large attendance. However, everything went along happily, and the whole party eventually adjourned to a tiny stage, which had been arranged as a replica of a broadcasting studio.

Stepping on to the stage, Mr. Cochrane was taken by surprise by a director of David Jones, and the accountant, who forthwith began to present him with an illuminated address. Unfortunately, Mr. Bradford spoke too softly for us to hear him, and, in any case, Mr. Cochrane was put to the unusual necessity of explaining to the children, who wondered what on earth was happening, what an illuminated address was. However, there was no doubt about their intentions when they sang the birthday song for Mr. Cochrane's benefit. Then Mr. Cochrane showed them how the bedtime session was

carried on, speaking through a microphone arranged by Mr. Burberry and company. The voice was taken through an amplifier and distributed through a loud-speaker on the side of the platform. Then the children were asked to come up and say a few words into the microphone; and they came up in fear and trembling, but were manifestly eager to test this new experience. Several children spoke and sang, and a member of the orchestra gave an excellent imitation of a child reciting, on his violin, which dwindled away with Mr. Burberry, who had other work afoot.

# SESSIONAL NEWS

## MR NORMAN'S SESSION



THE ballot which Mr. Norman is conducting, to decide which will be the next visiting place for his party of Bigger Boys, is proceeding satisfactorily. There is a wide choice of places, but the majority of boys, so far, have plumped for Mascot aerodrome. Mr. Norman says that a large percentage of his queries are concerned with aerial matters, so the future of Australian flight seems well enough ensured. Atlantic Oil comes second. Mr. Norman receives questions on all kinds of subjects. Some are straight-out posers. Others are easy enough to answer, but involve Mr. Norman in ethical arguments with himself. For instance, one young man wanted to know how to make gunpowder. Here is a selection, taken at random, of the questions Mr. Norman is expected to answer:—

"When I rang up a friend of mine the other day, I heard a buzzing in the 'phones; but my friend told me afterwards that he didn't hear it. Why didn't he hear it?"

"What causes the colored lines round the moon?"

"Can you give me a diagram of the works of the Robot Mechanical Man, or just the working of the legs, if you haven't the whole thing?"

"What causes earthquakes?"  
"Can submarines transmit messages when submerged?"

"What would happen if you mixed an equal quantity of nitric and hydrochloric acid?"

"Why do icebergs melt?"

One wonders how many adults could answer these questions. Mr. Norman answers them every Tuesday night, from 8 to 6.45 p.m. He is particularly proud of a testimonial he received the other day:—"I would rather have a 'sixer' from our head than miss your session."

## MISS VARLEY'S SESSION



THE annual general meeting of the 2BL Women's Sports Association has been planned for Wednesday afternoon, May 29. It will take the form of an afternoon tea gathering at David Jones' dining hall. The directors of the New South Wales Broadcasting Company and their wives will be invited. The various clubs will entertain at their tables those speakers who are their favorites over the air during the 2BL session. The general report of the first year's activities will be read by the honorary secretary, Miss Varley, and the balance sheet for the year will be presented by the honorary treasurer, Mrs. Otto Raz.

The 2BL Coogee Club held its annual business meeting at the Cardon Courts, 112 Brook Street, Coogee, on May 2, where they play two afternoons a week. Miss Gwen Varley took the chair, and called for no-

minations. Twenty-six ladies were present, the officers were duly elected, and are as follows:—President, Mrs. Dick; vice-president, Mrs. Gibson; club captain, Mrs. Forsyth; honorary secretary, Mrs. Endicott; assistant hon. secretary, Mrs. Waizer; joint honorary treasurers, Mrs. Rockliff and Miss Grace; committee, Mrs. Goldstein, Mrs. Lorrimer, Mrs. Osborne, Mrs. Chapman; selection committee, Mrs. Forsyth, Mrs. Dick, Mrs. Gibson, Mrs. Joseph, and the coach.

It was decided that a coach be secured for the winter months.

The monthly membership fee was fixed at 5/ each for one day's play a week. The expenses incurred by the extra day a week play was to be met by the players on that day. The committee decided that they would meet the first Thursday of each month, and draw up a programme for the forthcoming month.

Special provision is to be made for members who are not playing in the 2BL competition, by arranging for regular matches against the clubs, and also American afternoon tournaments. Three teams were sent to the White City courts to be graded, in readiness for the 2BL competition, the result as follows:—1 team in A1 grade, 2 teams in A2 grade.

The standard of play is much higher this year, and members hope to have some very exciting friendly and happy games, with members of other 2BL clubs.

## READING SESSIONS



THE Booklovers' Corner is just a little individual corner in the afternoon's programme for listeners who have the time to sit down and enjoy the stories which are read. The short stories by O. Henry, with which this feature was opened, did not prove entirely successful. O. Henry's work was found to be "a little too subtle for the

air!" On Friday, May 24, a particularly humorous story will be read. The title is "Squarky Woo," and listeners may anticipate a most unusual interlude in the Booklovers' Corner on that Friday.

## MR. FERRY'S SESSION



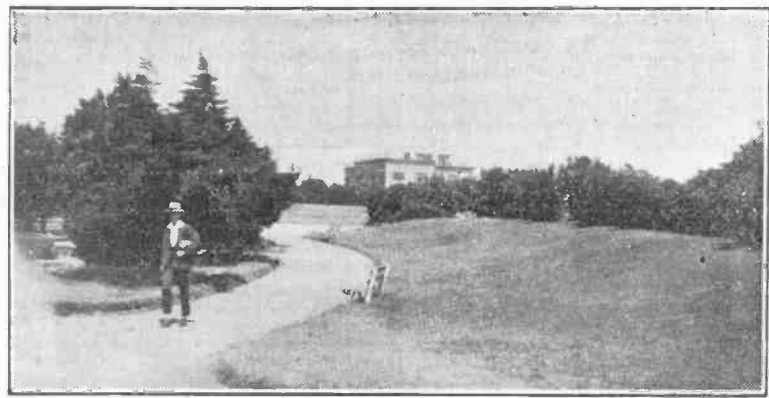
NEXT Saturday, May 25, Mr. Ferry will broadcast from the A.J.C. meeting at Warwick Farm. Mr. Ferry explains that this will be the first of the A.J.C. winter hurdle and steeplechase meetings, and will act as a kind of preliminary to the big jumping doubles of the winter carnival. For this reason, everyone will be watching form very closely on Saturday.

## MR. COOPER'S SESSION



MR. COOPER'S mail was too great to allow him to touch on the uses of lime, as we said he would, some Saturdays ago. So, during his session next Saturday, he will talk on "The Importance and Value of Lime in the Soil." As we explained before, there are a few plants which require no lime in the soil, but the great majority of plants require it in various quantities. Mr. Cooper will explain the uses of lime with fruit trees, flower plants, vegetables, trees, shrubs, pot-plants, hanging baskets, grass tennis courts, croquet and bowling greens, golf courses, and cricket pitches, and in general farming.

He will also talk on the beautiful lawns and cypress trees of St. Kilda Beach, Victoria, and of the Salt Spray Break, which preserves them from devastation by the sea winds



GARDENS AT ST. KILDA BEACH, MELBOURNE.  
The row of pines on the right acts as a break for the salt-laden air blowing off the beach immediately behind it. This "spray-break" makes it possible to grow almost any shrub or flower in close proximity to the sea, which would otherwise destroy it. Mr. Cooper will deal with "spray-breaks" during his session at 2BL this week.

# Wireless Weekly

Incorporating "Radio in Australia and New Zealand."

FRIDAY, MAY 24, 1929.

## CARRYING THE BABY

**A** CORRESPONDENT in the opposite page raises a protest against the proposed use of the license moneys of N.S.W. and Victorian listeners to build up the stations in the more outlying States like Tasmania, Western Australia, and Northern Queensland. The point is one which concerns every listener-in, and is likely to raise some trouble for the new regime, unless the position is fully understood.

It means that a 10-hour programme is to be given from 6WF and a 16-hour programme from 2FC-2BL; but that whereas the N.S.W. stations can now afford to pay £10 an hour for this service, Western Australia can only raise about 13/. Obviously, even providing for relays (doubtful, owing to the distance of W.A.), 6WF—or 7ZL or 4QG—could not be run successfully on 13/ an hour, and a considerable amount of the revenue of N.S.W. and Victorian listeners will have to pay for this.

Ostensibly the object of this proposal would be to provide Western Australia, Tasmania, and Queensland with a first-class service until licenses have increased sufficiently to enable these States to carry their own stations. No N.S.W. or Victorian listener-in would be selfish enough to object to this, especially as he sometimes tunes-in these outlying stations; but will this laudable plan develop as expected?

Will Western Australia, Tasmania, and Queensland ever be able to carry their own stations with a service good enough to induce renewal of licenses each year? It is doubtful, remembering that something on these lines has been tried by the Government during the last few months, without success. If those in authority insist on this proposal being carried out to the fullest extent, N.S.W. and Victorian listeners will be justified in protesting.

The Government would then, in effect, be demanding a uniformity in the quality of all programmes, regardless of the number of listeners for each station. It would mean that tens of thousands of listeners in Victoria and N.S.W. would be put to expense for the benefit of a few. No one minds carrying a baby for a stage of its infancy, but no one wants to be a nurse-maid for ever.

## Has Government Control Failed Already?

**I**N view of the contemplated assumption by the Commonwealth Government of the control of wireless broadcasting in Australia, it is interesting to note that the only States in which there has been a decrease in licenses are those in which there is already Government control, viz., Queensland and West Australia. It was thought by many that when the Government took over the services in the western State there would be an immediate improvement, and a corresponding increase in the issue of licenses; but this has not been the case. Instead, the quota of licenses per one hundred of population has gradually fallen off until now it is as low as .93 as against 4.69 for the whole Commonwealth, and 8.17 for Victoria, which latter quota is a world's record.

The official figures issued by the P.M.G., and published in our last issue, showed a net decrease of 15 and 23 licenses in Queensland and West Australia, respectively, while all other States under private control showed substantial increases, particularly New South Wales and Victoria, which were 1390 and 1451 respectively.

It will be noted that, although Victoria's quota is the highest in the world, and the issue of licenses had reached what was regarded as saturation point, there were more new licenses in that State last month than in any other State—in fact, nearly as many as in all the other States together. This is remarkable, especially as in the metropolitan area there is a licensed wireless set to every two houses. It is an emphatic reply to the recent criticism of the

services, and stands as a definite verdict on the public.

What is the reason for the pronounced decrease of licenses in Victoria? This is a question that has puzzled many people ever since the commencement of wireless broadcasting in Australia. The "B" Class station people think that it is the result of what they claim their good services, but this theory is exploded by the fact that there are B Class stations in Sydney giving as good, if not better services than those in Melbourne, and they have been operating efficiently longer than those in Melbourne; yet, no parallel increase in numbers of licenses has taken place. And it must be remembered that before B stations commenced wireless broadcasting in Victoria there were in that State more licenses than in all the other States together.

The reason is obvious and is certain that if there should be any slackening in the efficiency of 3LO there would be an immediate serious fall-off in licenses. This is a factor that may, unfortunately, assume alarming proportions under the changed conditions, and will have to be watched very closely by whoever enters the contract for the programmes. It causes much concern to the contractor, because much of the license money paid by listeners in Victoria and New South Wales will have to be diverted to other States to provide better services, as laid down by programme specification. This would be a decided advantage to the other States, the question is—will it mean less efficient services in Victoria and New South Wales?

Complete list of all the stations which can be heard in Australia in next week's issue. Order your copy now.

## BUILDING A SET

No. 2





**Snags in Government Policy**

Dear Sir,—An article in "Wireless Weekly" (10/5/29) gives a summary of the conditions under which the Government proposes to broadcast programmes, and from my point of view it is typical of the Australian Government, and the results of this policy may be much worse than the few I am about to comment on.

The national broadcasting policy is an absurd attempt to bend the tenderer to a programme which may not suit the public taste, but which is nevertheless considered O.K. by that newly-created "Czar" of radio—the Postmaster-General.

Not only has the Government control of programmes, but the tenderer has also to listen to the advice, whether good or bad, of religious cranks, classical music bugs, and other such nuisances, and it is fairly safe to say that these will always be considered, while the average listener in will have no say in the matter, and have no appeal against programmes sanctioned by the P.M.G.

Local committees are also given the power to force the unlucky tenderer to accept their candidates for inclusion in broadcast programmes, and from this state of affairs we may expect an attack of doleful lectures on the so-called sins of enjoying life; because some pestiferous hypocrite has been supported by a local committee of cranks and howlers. However, the main snag is this: Victorian and New South Wales listeners-in must bear the brunt of the expense for providing the other States with programmes. The announcers also have to be approved by the P.M.G. Well, let us hope we keep our present announcers, who are equal to anything in the world, and, not some English announcer who has been to Oxford, and, consequently, because of that, considered superior to an Australian.

In closing this letter, I would like to remark that if the Government handles the radio problem like it does everything else, then goodness help the listeners-in, because there is bound to be a drop in license—hence, rise in fees.

Yours, etc.,  
N. MacMAHON.  
Balmore.

**Radio Fan Fraternity**

Dear Sir,—Will you allow me to thank your readers for sending me letters and diagrams of the PI circuit, asked for through "Wireless Weekly." I received twenty letters and diagrams from various parts of Queensland and New South Wales, which shows what splendid assistance "Wireless Weekly" is to the amateur, and how willing amateurs are to assist one another. I would ask those gentlemen who wrote me and sent along diagrams to accept my thanks and appreciation.

Yours, etc.,  
C. N. McLEAN.  
Thargomindah.

Readers are urged to express their opinions on matters pertaining to broadcasting. If you have some grievance, if you have some constructive criticism to offer, here is your chance for expression—your safety valve. The editor assumes no responsibility for statements made by readers and published on this page, as opinions of correspondents do not represent our editorial policies or beliefs. Anonymous letters are not considered.

**Same Old Things**

Dear Sir,—What a pity it is that out of all the thousands of records to choose from that it is the custom of 2FC and 2BL to give repetitions of records over and over again during the week, sometimes twice a day. Is it any wonder we get tired of listening in to the same old things?

Yours, etc.,  
H. SNOWDON.  
Bega.

**Light Sunday Music**

Dear Sir,—It gives me great pleasure to endorse the remarks of Geo. O'Kell, of Sans Souci, in last week's "Safety Valve." I am positive the number of listeners desiring light programmes on a Sunday by far exceed those who desire these "dismal dirges." The great pity is that a census cannot be taken, which no doubt would show that the minority have the monopoly of Sunday programmes at present. Surely two stations would be sufficient to satisfy the morbid desires of these funereal people. Until 8.30 on Sunday evenings we are compelled to put up with the monotony of church services from all stations. No doubt sufficient correspondence on this subject has already been published in your columns to make at least one broadcasting company sit up and put over popular music—a procedure which would undoubtedly minimise the Sunday gloom that prevails on the air at present.

Also, yours for a decent Sunday programme.  
Yours, etc.,  
TOY JOWETT.  
South Kensington.

Free Supplement Next Week,  
containing complete list of all  
Radio Stations in Australia.

**Tuning in 4QG**

Dear Sir,—Allow me a small space in your "Safety Valve" page to express my opinion of the squealers down south, who are always having something to say about the programmes of 2FC, 2BL, and 3LO (not to mention "B" class stations). I have noticed several opinions of writers, who think they are hard done by, because they cannot get the station to supply them with jazz and other lively music all the time. Here is a little news for them. Up here, where you have to have a very selective and powerful set, or be content with what you get, one gets "sob-stuff" four nights in the week, church Sundays; Wednesday night is supposed to be a dance night, but instead of a jazz night it seems to get mixed up with the other sob nights. I may state that I personally (and there are thousands of others) would sooner be sentenced to death than have to listen in to 4QG for six months. There are nights when interstate reception is useless, and we who have a big powerful set have to either go to bed or put up with what we get. I am pleased to say that during the last nine months I have only tuned in 4QG five nights, and that because there were items I wished to hear. If our station was 1/10th as up to date as your "B" class stations in the selection of programmes there would be an increase not a decrease in licenses. All I can say is that the squealers who delight in blowing up the southern stations should be compelled to tune in 4QG for one month. I am sure they would pity those of us up here who are forced to either listen to 4QG or go to bed. Here we are, from 8.30 a.m. till 3 p.m. on Saturdays without any broadcasting at all, and we have to pay 24/ per year just the same as your squealers down south pay, and they have two "A" class stations and five "B" class stations. They are that well off that they don't know what a rotten programme is. Just fancy 24/ per year for one station, and 24/ per year for at least seven stations!

What have they to squeal over, I want to know. Through the columns of your valuable journal, "Wireless Weekly," I wish to thank 2FC, 2BL, 3LO, 3AR, 2UE, 2GB, 2KY, 2UW, 3UZ, and 3DB for the very enjoyable evenings I have had from their transmissions during the past six years. I wish them every success, and trust to continue receiving their enjoyable programmes for years to come.

Yours, etc.,  
SOMETHING TO CRY OVER.  
Brisbane.

**Church Services**

Dear Sir,—I notice in this week's "Wireless Weekly" a gentleman (Moses) complaining about not enough church services. Well, a few minutes ago I tuned in to no fewer than seven, including New Zealand, and if he can't get one out of that lot to suit him, well, all I can say is that he's fussy.—Yours, etc.,  
AMUSED.  
Cawda.

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Bakelite panels, 18 x 7 x 3-16, each	6	6	
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Philips' Audio Transformers	1	7	6
Wetless Fixed Condensers	1	6	
Eco Balanced UX Sockets	2	6	
½lb. Reels, 20 DCC wire	2	4	
½lb. Reels, 24 DCC wire	1	6	
4in. and 3in. cardboard formers			6
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# The SELECTACRYS

## 2 Valves and Crystal



(By **DON B. KNOCK**, Associate  
Technical Editor)

**I**N the course of answering numerous questions at the Radio Exhibition, we had an opportunity of studying at first hand the ideas of listeners-in. There are still a few who place long-distance reception before all else, but it is pleasing to note that the majority are more concerned about fidelity of reproduction of the local programmes.

A great number of people are still lovers of the simple little crystal set. They have been content to sit back with a pair of headphones; but with the era of selectivity, they have come to the forefront in demanding increased efficiency; and now it is a case of wanting all the local programmes from the little set, instead of just being content with one or two.

And rightly so; for it is not difficult to provide the notoriously broad tuning crystal with certain treatment in the way of inductance and capacity which will make the resulting receiver as sharp in tuning as any valve arrangement. There is something intriguing about a really selective crystal set and owing to the great interest in one published a month or two ago, and the number of inquiries during the exhibition for another. **SELECTACRYS** receiver, which appeared in the old "RADIO" during last year.

**REPRODUCTION PAR EXCELLENCE.**

Many "WIRELESS WEEKLY" readers did not see the original, and, after having tested

various types of crystal receivers, the **SELECTACRYS** wins as the most selective. It is a crystal set plus a two-valve amplifier, with provision made for plugging headphones into the crystal circuit itself. On the local stations loud-speaker reproduction par excellence may be had, if the amplifier is correctly made, with good transformers and good valves, etc.

There are crystal receivers and crystal receivers. Supposing that the recent beginner in the realms of radio reception, instead of making his debut with a valve receiver, starts off with, possibly, an old variometer, or coil, a crystal of some kind, a variable condenser and a pair of phones. He connects the assortment together, and then, upon reading through some old-timer radio journals, thinks, "Why cannot I get the results those fellows claimed in 1922?"

**"GOOD OLD DAYS."**

There is usually an enormous difference in the average crystal set of these days and the one of those "good old days," and therein lies the story! A man may proceed to the nearest dealer, and buy for a few shillings a modest little crystal outfit, which is primarily intended for reception of the nearest local

station only, and reception of any other (also local) is right out of the question, perhaps even when the powerful local station is closed down.

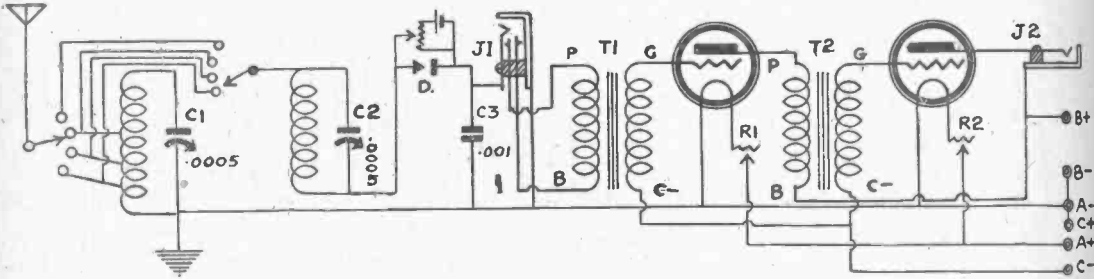
Not many years of grace have passed since the men who were using crystals for general reception were pioneers. One has only to look over some of the old British or American journals to note the contrast to the methods used with the crystal set of to-day. I must not overlook the fact that there were not flocks of high-power stations on the air nightly, with high-quality telephony transmissions—just the busy bees about—ships at sea—commercial land stations, and a few preliminary experiments in telephony.

**THE URGE.**

The urge was there, however, and the "fan" of those days went to untold trouble to get the most out of that highly-prized little piece of crystal nestling snug in a little brass cup. The aerial used for crystal reception then was usually far more efficient than one necessary for average reception to-day. It was probably at least 60 feet in height, and of a multi-wire type, with, perhaps, a 100 foot span. Imposing, attractive, but really an aerial with a capital A.

The earthing arrangements were scrupulously attended to, consisting of large metal sheets, or tanks buried in moist ground. The new "fan" of to-day might ask, "why was all that necessary for a simple crystal set?"

# CRYSTAL AND TWO VALVES, GIVES UTMOST CLARITY



Not at all simple; the difference in the set of those days and the present time is very marked. Amateurs would try to emulate the old Marconi Multiple Tuner (the pride of sea-going operators then), and would build elaborate tuners giving tight or loose coupling, and with switching systems using the taps and units principle, so that direct contact with any portion of an inductance was possible.

### FINE TUNING.

It should be obvious that tuners of this type were far more certain in obtaining the fineness of tuning necessary to make the most of the comparatively weak impulse rectified by the crystal detector. Moreover, the user of the station was not content with only one crystal. By selector switches a number of different kinds of crystals could be brought into immediate use.

Good crystals were scarce in those days, and I, for one, cherish happy memories of Silicon, with its controversial metal points, Zincite, with its Bornite, Tellurium, Copper Pyrites, and Molybdenite partners; Carborundum, with its lesser sensitivity (without voltage potential, but wonderful stability, and last, but not least, GALENA. One could spot a "ham" in those days by the pill boxes he carried proudly in his vest pocket, with specimens of Galena delved from a lump of lead sulphide from the chemist's store!

### DYNAMITE 'PHONES.

Headphones were not the kind one gets to-day at the average radio store, either. They were usually of a much higher resistance, and thus as sensitive as possible. They were fragile, difficult to obtain, the price ruinous, and were guarded jealously by the owner, and handled with as much care as one would handle a stick of dynamite.

Having looked back to those old pioneering days, let us compare notes with the crystal set of to-day—and what have we? Nowadays the crystal set commonly met with uses nothing more or less than a coil, untapped, and simply tuned by a variable condenser. It may even be just a variometer and a crystal.

The crystal is of the manufactured or synthetic kind, and many of them are extremely good. The headphones are probably about as sensitive as a chunk of coke!

### MORE POWER: LESS SENSITIVITY.

It does not matter so much now, as the listener is content to hear the local programme, which is well audible on any old kind of a crystal set, owing to the power used by the station. What if the listener decides he would like to hear some other local programme, and, in addition to this, feels that he would like to retain the purity of reproduction his crystal gives, but at comfortable speaker strength, instead of often having to hand the headphones to others, who might go to sleep with them on!

By careful attention to the tuning circuits, the crystal used, and a good audio amplifier, we can turn out a crystal set which is actually very selective, and which will be a pleasure to listen to via a loud-

### IDEAL CRYSTAL.

The permanency of the crystal makes this particular detector ideal for a no-trouble receiver, but if the user does not mind having to readjust his crystal detector at times, there is no reason why one of the ordinary synthetic crystal detectors obtainable at any radio store should not be used. A particularly good one in the galena class is the Harlie detector.

### SELECTACRYS.

Having digressed on the merits of crystals and their application, we will turn toward the SELECTACRYS receiver itself, and see how to make the most of these things. Without doubt the SELECTACRYS is the most selective crystal receiver the writer has ever handled. Looking at the circuit diagram, it will be seen that there are two switch contacts having four studs between the two inductances, L1 and L2. These switches are not actually used in the receiver in the photographs, and instead, tapings are taken from the coil L1 and the variation made by the use of flexible leads and clips.

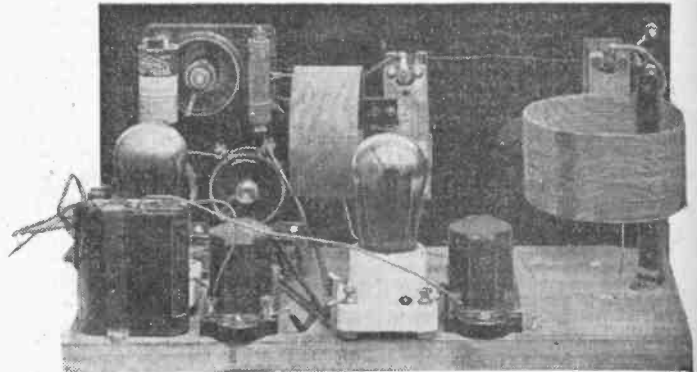
If the reader wishes, there is no difficulty in mounting such switches on the panel, and practically every dealer is certain to have switch arms and contact studs somewhere among his stock. Coil L1 is quite a large size, diametrically compared to the average coil used to-day, while L2 is of normal size. The coils may either be wound on a former or made self-supporting as those in the photographs.

To make them of the "wound on air" type is not difficult. Wind the turns tightly on a former of the required size (4 inches for L1 and 3 inches for L2), and hold the winding securely in position. Next soak the coil well with collodium flux (Amyl acetate, with celluloid dissolved to a thick consistency), and allow to dry.

### Parts Required for the Selectacrys Receiver

- 1 Formica or Bakelite panel, 18 x 7 x 3-16 inches.
- 1 Baseboard, 17½ x 10 x ½ inches.
- 1 stabilised carborundum detector unit or other good crystal detector.
- 2 .0005 mfd. S.L.F. good quality variable condensers.
- 2 Philips audio transformers.
- 1 .001 Wetless or Electrad fixed condenser.
- 2 U.X. valve sockets.
- 1 16oz. reel of 20 D.C.C. copper wire.
- 1 8oz. reel of 2½ D.C.C. copper wire.
- 1 former, ¼ inches in diameter, 3 inches long.
- 1 former, 3 inches in diameter, 2½ inches long,
- 8 terminals.
- 2 spring clips.
- 1 double-circuit jack.
- 1 single-circuit jack.
- 2 30-ohm rheostats.
- 2 Emmco vernier dials.
- 16½ tinned copper wire, insulating sleeving, solder, etc.

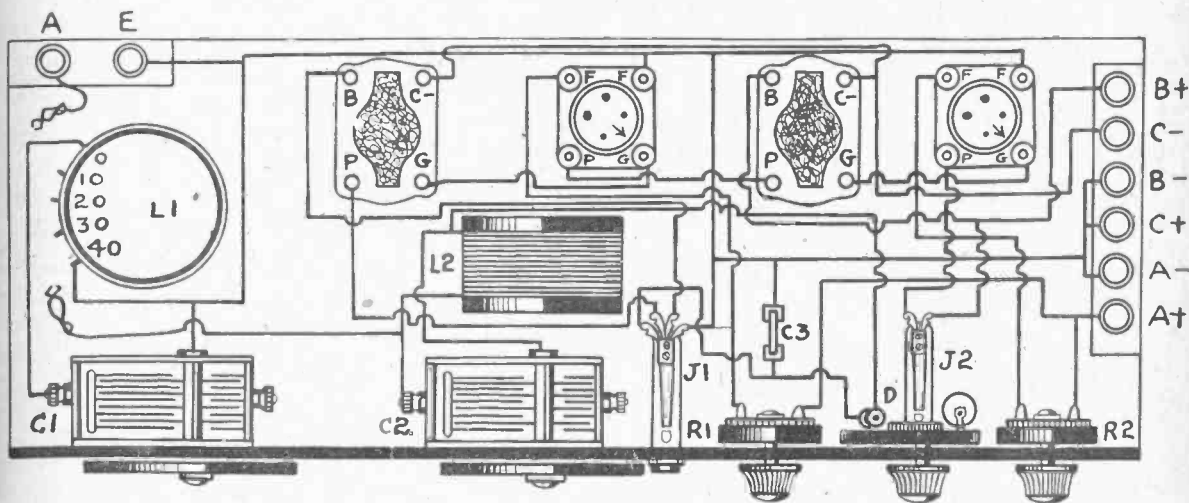
speaker. The stabilised carborundum crystal units obtainable to-day are highly sensitive and stable, and are a much more compact component than would have been the case a few years ago.



A back-of-panel view of the Selectacrys, showing simplicity of construction.



# SELECTIVITY ASSURED: NO TROUBLE TUNING-IN



### RIGIDITY.

Make sure that this cement penetrates well between the turns, or the result will not be the rigid coil required. A mounting may be made from strip bakelite, with small brackets to hold it in position. Coil L1 consists of 40 turns of No. 20 D.C.C. copper wire, wound on a 4-inch diameter former. This coil is tapped at 10, 20, and 30 turns. When making the windings, twist the wire into loops about half an inch long, and bare the insulation when the coil is complete. L2 is wound on a 3-inch diameter former, with 45 turns of 24 D.C.C. copper wire. Both the variable condensers are of the straight line frequency type, with a capacity of .0005 mfd.

### CONDENSERS.

There are quite a number of good variable condensers on the market, so no particular make is specified for the SELECTACRYX, but don't use rubbish. In case the listener wishes to use headphones only, an intermediate double circuit jack is placed in the crystal circuit.

This is useful as one may continue reception quietly, when the rest of the household has retired at night. Two high-grade audio transformers are used in the audio amplifier to do justice to the clarity of re-

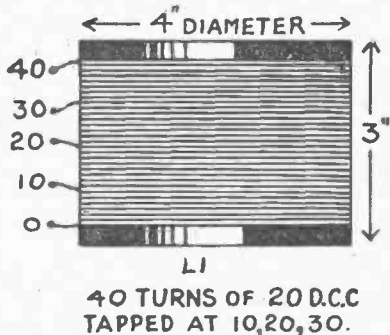
production obtainable from the crystal. These are the well-known Philips transformers, and are particularly suitable for use in a set of this nature.

The choice of valves rests with the user.

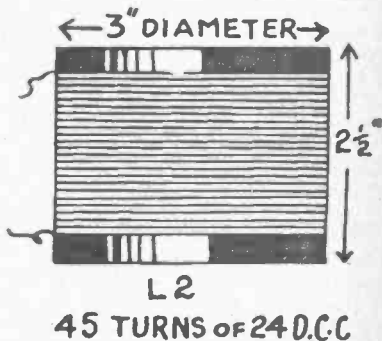
economy in filament current, etc., is the first consideration, the OSRAM HL 210 and DEL 210 are ideal. These are 2-volt valves, and may be run for a long while on dry cells.

### PANEL.

The panel for the SELECTACRYX measures 18 x 7 by 3-16 inches, with a baseboard 17½ by 10 by ½ inch. Drill the panel to suit the drilling diagram. Do not be confused by the front panel appearance of the set in the photograph, as an extra jack was provided in the test set to use only one stage of audio, but it is better to leave this out, and use only the two. Also, the clip terminals on



One, 2, 4, or 6 volt valves may be used, but be sure to choose the right kind of audio valves with the correct biasing. The valves used in the tests of the SELECTACRYX were an OSRAM DEL 610 and a DEP 610. If



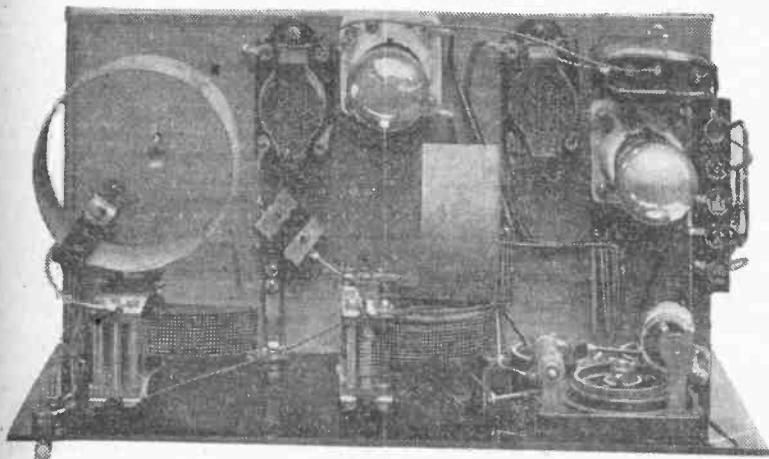
the panel for aerial and earth connections are better mounted on the baseboard.

The point to point wiring diagram explains fully the necessary connections, so that there is no need to go into detail over such a simple lay-out. Both audio valves take their C bias from the same supply, and no filament switch is provided, the valves being turned off by the rheostats, which must have a definite "off" position, as most variable rheostats have.

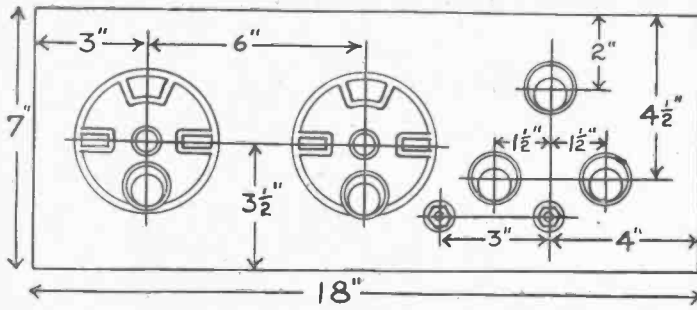
### OPERATION.

Now a few words as to operation. Selectivity is a feature which has been considered hard to attain in connection with crystal reception, but the tests of the SELECTACRYX revealed a real "knife edge" tuning which was surprising. The test was made in Randwick, quite close to 2BL, and no difficulty was found in separating 2BL, 2UE, 2GB, and 2FC. What more could a crystal user desire?

All these stations were received at good



This plan view shows how easily and cheaply this receiver can be made.



speaking volume, with an aerial approximately 50ft. long and 30ft. high. Also, when 2BL closed down, 3LO could be heard, weakly, of course, but nevertheless there!

**FLEXIBLE LEADS.**

Selectivity is governed by the variation of the flexible leads from the aerial, and the top

of L2 to suit the aerial used. One setting will be found where the tuning condensers will suddenly tune sharply with a good peak on the station being received. In effect, the combination of L1 and L2 constitutes a wave-trap, but is actually a loose-coupled primary circuit. This is where the SELEC-TACRYS embodies the virtues of the old-

time crystal receivers used by the pioneer "amateur," and it will appeal to a large number of crystal users who would like crystal reception such as they may have read about in bid-time radio journals.

**CRYSTAL RECTIFIER.**

The day of the crystal rectifier is not by any means done, and something may happen at any moment to arouse renewed interest. Some engineer may suddenly develop the oscillating crystal (not the quartz control variety), and a certain amount of work had already been done by a Russian radio engineer, who made claims in 1924 for a synthetic crystal to which regeneration may be applied.

Nothing further has been heard of the investigations, but research engineers are of an inquisitive nature, and quite possibly some element may be discovered which possesses similar characteristics to the oscillating valve, but without any external application in any way. An oscillating crystal rectifier as applied for reception would be a great boon to radio engineers, and would result in an immediate simplification of many designs.

# ∴ How to Service Radio Sets ∴

XIII.

There is considerable talk about dry batteries being out of style, and soon to be superseded by substitutes. However, from a service man's point of view, the talk will not alter the fact that dry batteries are one of his greatest sources of service revenue, and, from all indications, the millions of battery-operated sets will keep him busy, and the older they get the busier he will be.

A radio service man's outlook is good, no matter how you look at it. When battery-operated sets are no longer, if such a thing is possible, the newer type will be in distress in the same proportion, if not more so.

People are becoming more educated in the art of caring for their own radios, but the more their smattering of knowledge the quicker they will call for a service man.

**VALVE SERVICE.**

XIV.

"Oh, no, sir," she said. "It can't be my valves. See! They all light." And there you are.

She isn't the only one. It is a natural ignorance of technique for laymen to not know that the filament of a radio valve can light but, nevertheless, not be emitting electrons.

When electron valves were first made a tungsten filament was used which needed high temperature to throw off sufficient electrons for passing the plate current. They consumed one whole ampere of current. As this was not practical with the means at hand for supplying current, which was the storage battery only, the pioneers got their heads together and found that an alloy with 20 per cent. of thorium added would emit sufficient electrons at a one-fourth ampere consumption.

This thorium formed a coating on the filament, and it is this coating that emits the electrons, but, upon use, the coating dis-

*The fourth article of the series on Servicing Radio by an experienced business man.*

appears. Eventually there is no coating, no electron emission, but the filament lights.

This coating can be renewed on the filament by so-called rejuvenation.

The action of rejuvenating is to shatter the atoms of the alloy with a flash of high voltage, and then pulling to the surface of the filament a new coating from the thorium content, with an AC voltage in excess of the rated voltage.

If it is necessary to turn a rheostat on full with well charged battery, it indicates the valves have been used continuously with too much voltage.

The heat of a wire dissipates the coating of electrons, but it also brings out to the surface additional electrons from the thorium element of the alloy, to replace these. If the heat of the wire dissipates the external electrons of thorium quicker than it brings any out to the surface, the filament becomes more or less inactive.

When an inadvertent touch of high voltage has been placed across the filament, but not long enough to burn it out, all of the surface electrons have been burned off, and the valve has become so-called paralysed.

XV.

You can ascertain how the electron flow of a valve is by testing to see how much current it will pass at the rated filament heat, and how it oscillates. However, a valve may pass a certain amount of current and still be a poor oscillator, or an extra good oscillator.

A valve that works well as a detector will not make a good radio frequency amplifier, and vice versa. Care must be taken in selecting radio frequency valves.

The oscillating test for valves is an important test. Some have the filament rating, or nearly resting, against the primary, shorting out the secondary winding of the preceding transformer. The valve cannot oscillate if this condition arises.

Valves which have become paralysed from having had a momentary touch of high voltage or other electrical shock will pass some current and show some reading on a simple test, but they will not oscillate, and can be detected immediately by the oscillating test.

It is generally known that a paralysed valve can be brought back to functioning by burning the filament at a rated filament voltage without any plate current flowing. But this is a long process. The writer has found the best method to be the use of proper rejuvenation.

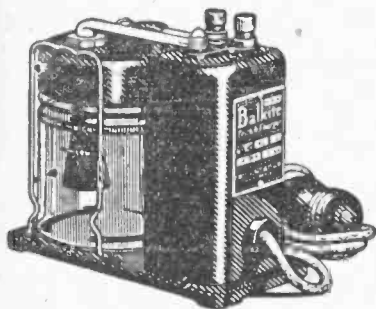
Do not mistake valves that pass only one milliampere of current as having only the thorium coating dissipated, and, therefore, rejuvenatable. The metal parts in a valve are continuously throwing off oxygen. The "getter," which was exploded to absorb the remaining oxygen after the tube was exhausted, is supposed to also absorb oxygen as it is thrown off. It is impossible for electrons to flow where there is oxygen; therefore, the flow gets less and the path for plate current becomes less, giving a decreased reading.

After rejuvenating the valves, in which you have done your best for the customer, and placing them back in the set, tune to a station and turn the volume very low. Test your new valves, which you carry in the kit, against each of the old ones in turn.

If the volume jumps up when you install one in place of another, leave it there, and go to the next. If one or more of the new valves are much better than the old, the customer will gladly pay for the new one.

Free Supplement Next Week, containing complete list of all Radio Stations in Australia.

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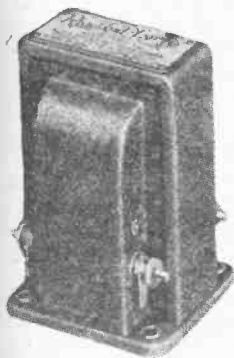
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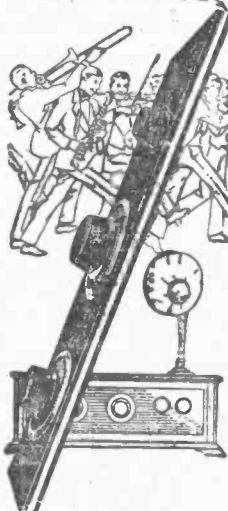
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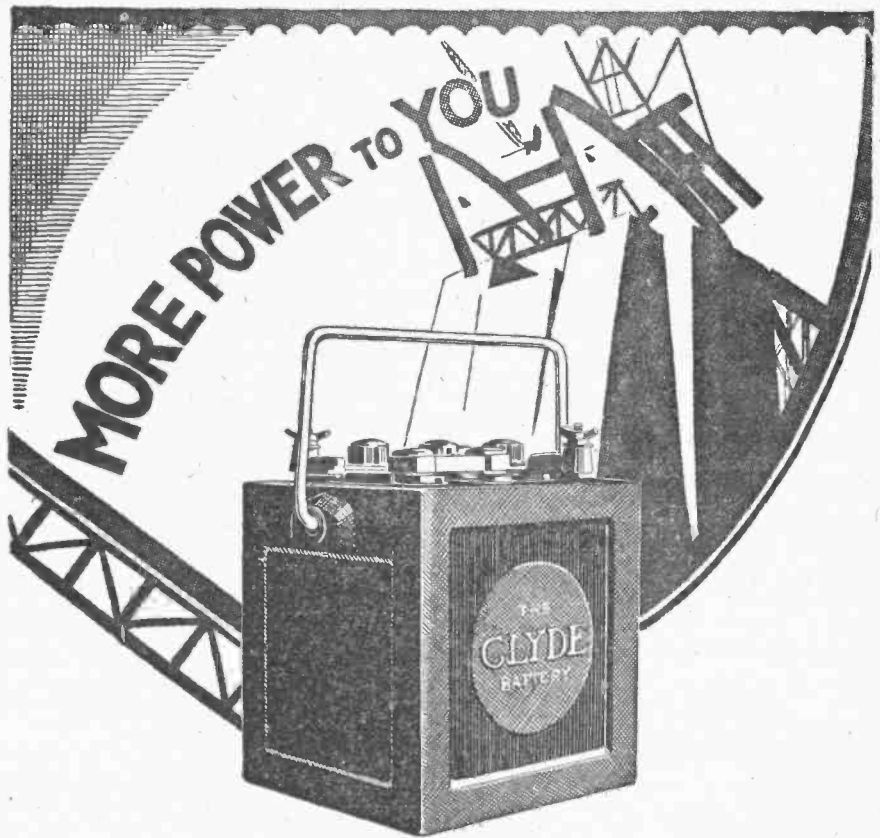
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RADIO BATTERIES

255

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# PROVING RADIO!

**No. 22** This week we commence a discussion on condensers. Parts 22 and 23 will explain fixed and variable condensers in full, and will treat the calculation of their capacity in microfarads, also treating the metric system, which is that used to calculate fractions of a farad.

**N**O doubt most of my readers will know what a condenser is. This useful component has already been briefly discussed, but its finer points have yet to be given.

In Fig. 1 you will see a variable condenser, while Fig. 2 shows a fixed condenser. The construction of these components was explained in Part 20 of "Proving Radio." Briefly, a condenser consists of a number of metal or tinfoil plates, separated by an insulator, which is termed the dielectric. In a fixed condenser the dielectric is usually of mica, or impregnated paper, whilst variable condensers (half of the plates of which are made variable with respect to the others, thus making the capacity variable) usually have a dielectric of air, which is the best known. Some condensers which have to stand a heavy load use oil as a dielectric.

When tuning a receiver, it is necessary to have the "capacitance" of the circuit exactly the same as that of the transmitting station. This is made possible by the use of variable

current will rise suddenly, i.e., there will be a current surge. This means that when a circuit carrying, say, 4000 volts is suddenly switched on, it will probably rise suddenly to 5000 volts, quickly dying down to normal again.

However, condensers have the property of being able to pass radio frequency currents. (These have also been previously discussed.) This is an important item.

Before we proceed further, let us test the theory that a condenser will store up energy.

Connect any type condenser you have on hand (a fixed condenser can be bought for about 1/6) and connect it to a "B" battery of about 90 volts or more. There are two terminals on the condenser—one of which should be connected to the positive terminal of the battery, and the other to the negative terminal. You need only leave the connections thus for a few seconds, in order to allow the condenser to become charged. Now connect a voltmeter, or pair of telephones, across the condenser (removing the latter from the battery, of course), and you will (if a voltmeter is used) see the needle swing over as the condenser discharges. If telephones are used, you will hear a click. By using telephones and constantly tapping one lead to one side of the condenser whilst the other remains permanently fixed, you will notice that the clicks become softer and softer as the condenser becomes discharged, in the same way as the flow of water decreases when the tank is becoming empty.

Remember the points mentioned above. It is the correct way to test condensers.

The capacity of a condenser depends on the number of plates, thickness of dielectric, value of the dielectric, space between the plates, and other factors. It is not yet time to discuss the rules for calculating the capacity of condensers, but this will appear in due course.

Capacity is measured in units termed "farads." The word comes from the famous inventor and experimenter, Faraday. Condensers in ordinary receiving sets have a very small capacity, and as it would be very awkward to refer to several hundred thousandths of a millionth part of a farad, we use the term "Microfarad," which means a millionth of a farad. Thus, if we have a condenser whose capacity is 120 millionths of a farad, we should not show it this way. It would also be incorrect to show 120 over 1,000,000 farads, or 3 over 25,000 farads, and even "120 microfarads" is incorrect. The correct way to show 120 millionths of a farad would be to change the fraction (i.e., 120 over one million) to the metric system and call the result microfarads.

Let us do this simple sum together. Those who have no knowledge of the metric system will find it very easy to learn, and they would be well advised to get a simple book on the subject, because in electrical mathematics most work is done with metric, as it is infinitely more easy to calculate when large figures are being used.

The sum is "show 120 millionths of a farad as microfarads." (Metric.)

Now, 120 millionths of a farad is the same as 120 over 1,000,000, isn't it? The fraction indicates that 120 must be divided by 1,000,000, thus:—

$$1,000,000 \overline{) 120}$$

It is obvious that 120 is not divisible by a million in order to get whole numbers as an answer. Our answer must be in fractions. Therefore, as 1,000,000 will not go into 120, we place our decimal point in the quotient (answer)—and add a 0 to the dividend (number to be divided), thus:—

$$1,000,000 \overline{) 1200}$$

The decimal point indicates a fraction. Figures to the left of decimal points represent whole numbers, whilst figures to the right are fractions. Now we see that the dividend is still not divisible, so we place a 0 in the quotient, and add another 0 to the dividend, so:—

$$1,000,000 \overline{) 12,000}$$

Still 1,000,000 will not go into the dividend, so we place a 0 in the quotient and add a 0 to the dividend.

$$1,000,000 \overline{) 120,000}$$

We find one million still too large, so once again we place a 0 in the answer, and add a 0 to the dividend.

$$1,000,000 \overline{) 1,200,000}$$

Now the divisor (i.e., the number being divided into the dividend) will go into the dividend once, and leave a remainder of 200,000. Place a 1 in the quotient, put the product of 1 and 1,000,000 (the product is

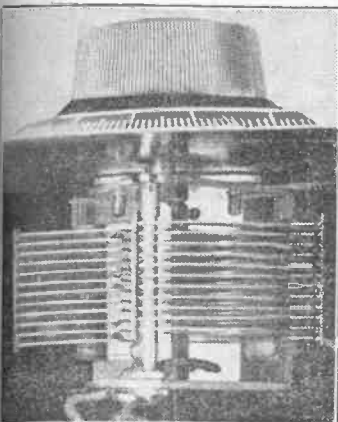


Fig. 1.—A Typical Variable Condenser.

condensers. When the plates of a variable condenser are all in, the capacity of the condenser is at its maximum, whilst the reverse is the case when the plates are "all out."

A condenser (I refer to both fixed and variable) has the capability of storing up electrical energy; in fact, it condenses that electrical energy, and holds it until something causes the energy to flow. Direct current will not flow through a condenser unless the pressure is very high, when the dielectric will break down and the electrical energy will "flash over." This explains why condensers for power work must be tested to a voltage a little higher than that being used, and it must also be remembered (as in the coil and galvanometer experiment) that when a circuit is made or broken, the

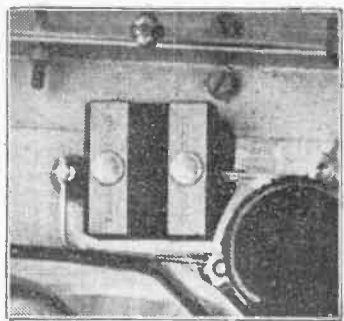


Fig. 2.—The Usual Type of Fixed Condenser.

the result of multiplication) below the dividend, keeping units under units, tens under tens, and so on:—

$$1,000,000 \overline{) 1,200,000} \quad (.0001)$$

$$\underline{1,000,000}$$

$$\text{Now subtract--} \quad 1,000,000 \overline{) 1,200,000} \quad (.0001)$$

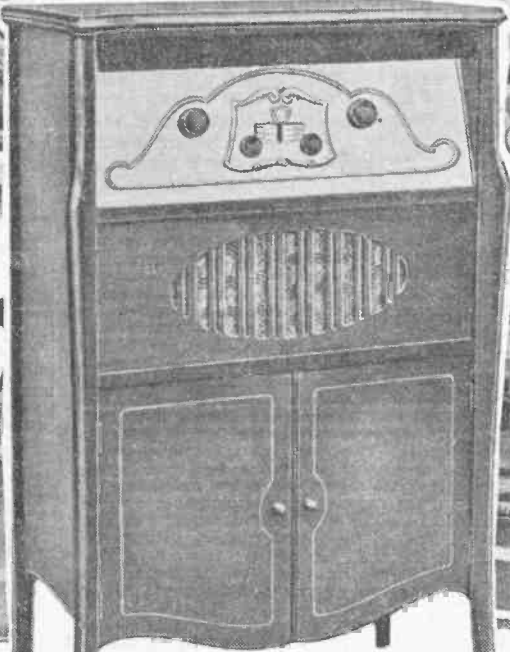
$$\underline{1,000,000}$$

$$200,000$$



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The balance is 200,000. Now let us count the number of figures after the decimal point in our quotient. The answer is four. Therefore, the answer appearing above is to "four places." However, we shall continue the sum to one more place, making it "five places."

You will see that 1,000,000 will not go into 200,000 so proceed as before i.e., add a 0 to the dividend—but no 0 in the quotient because we are now commencing the division of a remainder.

1,000,000 )	1,200,000 ( .0001
	1,000,000
	200,000

Now, one million into two million goes twice, so place 2 in the quotient, and finalise the sum, thus:—

1,000,000 )	1,200,000 ( .00012
	1,000,000
	200,000
	200,000
	200,000

So our answer is .00012 mfd. This should be verbally expressed as "point three 0's one-two microfarads."

If we were asked to express .00012 mfd. as millionths of a farad, the procedure is, of course, just the reverse. The decimal point shows all figures to the right are fractions. Perhaps it will make it clearer to express this as a proper fraction. In order to convert a decimal fraction to a proper fraction, place a 1 for the decimal point, and a 0 for each figure following, and use this as the divisor, and place the decimal figure itself

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above the dividing line, ignoring the decimal point, thus:—

00012
100,000

Now, leave out the noughts preceding the first whole number in the dividend, thus:

12
100,000

Now, we have been asked to express our answer as millionths of a farad. We are at present expressing it as 100,000ths of a farad, which means that we shall have to multiply each number by 10.

12 x 10

100,000 x 10.
---------------

which equals—

120
-----

1,000,000,
------------

or 120 millionths of a farad, which was the figure we commenced our calculations with.

**EXAMINATION PAPER. (No. 2.)**

Write on one side of the paper only, setting out question and answer legibly. Forward to "Proving Radio," c/o WIRELESS

WEEKLY, 51 Castlereagh Street, Sydney, and enclose stamped addressed envelope for return of examination paper. Papers will be checked and marked, and points will be awarded for neatness.

- What is a ground wave?
- What is the line of time?
- What is the main resistance?
- What is a magnetic bridge?
- What is a metre?
- What is an oscillation?
- How are oscillations measured?
- Who was Oliver Heaviside?
- What is meant by "plate circuit"?
- What is potential?
- Give the electrical equivalent for pressure.
- What is a pulsation in current?
- What is refraction?
- What is the formula for calculating resistance?
- What is the speed of ether waves?
- What is the speed of sound waves?
- Explain briefly the structure of the grid in a valve.
- How is a current made to flow through the plate of a valve?
- What would happen if A.C. was used on the plate of the valve instead of D.C.?
- What causes current surge?
- What is a solenoid?
- What is the unit of conductivity?
- What is meant by the letters T.R.F.?
- Give another name for a valve having grid, plate, and filament.
- Give another name for a valve having plate and filament.
- What causes a voltage drop?
- What is an undamped wave?
- What is the speed of light?

# PROVING RADIO CLUB NEWS AND NOTES

**EXECUTIVE REPORT.**

AS was decided upon, the enlarged executive meeting opened at 7 p.m. Mr. Treglivas gave us another fine paper dealing with electric currents, insulators, and conductors. Of the three papers read to date, this one opened up the most discussion; mainly around the point of the composition of the electric current, which continued until about 9 p.m., when the prospective leaders left in order that the executive might carry out its official duties.

The hon. secretary (Mr. Hook) introduced the group leaders of the newly-formed groups, City No. 2 and Kogarah, also reported the start of groups at Auburn and Punchbowl this coming week, and that Mascot and Daceyville groups were in the formation.

Owing to the great amount of work the hon. secretary has in the organisation of the city and suburban groups, the executive decided that owing to the number of inquiries received from country residents it was advisable to elect a member of the executive to the position of country organiser, who in future will deal with all matters of this nature.

Mr. A. G. Simmonds, "Gunton," Marsh Street, Arncliffe, was the officer elected. Any interested persons desiring information regarding the Proving Radio Club (Country Section), kindly get in touch with Mr. Simmonds. All members desiring to purchase the enamel coat badge of the club (price 3/), should get in touch with the hon. secretary, Mr. Hook, 29 Blairgowrie Street, Dulwich Hill, 'phone Pet. 3272.

Arrangements have been made with an amateur, Mr. Hudson, 2AR, for the transmission of morse on a wave length of 80 metres, one night a week for a start. Later it will be extended to two nights on the broadcast band, 240 metres. The hon. secretary wishes to be informed of the most suitable night. The one chosen by the majority will be used. There were 30 members at the A.W.A.

Receiving Station at La Perouse on Sunday afternoon, 12th inst. We must commend the A.W.A. for the courtesy shown to us by Mr. Todd and his colleagues. The visit lasted about two hours, while we had explained to us the ins and outs of the various types of receivers at the station, together with the beam aerial systems. Mr. Todd was particularly interested in the younger members, and gave them some sound advice in reference to radio.

**GROUP REPORT (KOGARAH).**

A VERY successful initial meeting was held by the "Kogarah Group" on Wednesday evening, May 8, when nine members were enrolled with two more intending to do so.

Mr. A. G. Simmonds, of the Arncliffe group, was present, and gave an interesting lecture on static electricity, which he demonstrated would be produced in many substances by friction with another. The final experiment with the club's new Wimhurst machine was much appreciated by members who tried many and varied experiments.

A small piece of cotton wool placed on the discharger jumped back and forth rapidly as it became positively and negatively charged. Viewed in the dark, the machine simply bristled and crackled with innumerable sparks, which were discharged from all parts of the apparatus. Members are keenly looking forward to future meetings, which will take place every Wednesday at 8 o'clock.

**GROUP REPORT (SUMMER HILL).**

REPORT for meeting on 9th May, 1929. For this week this group finished the discussion on the electronic theory, and commenced ionisation and static. Owing to material not being available, most of the night was taken up in discussions. One experiment, however, caused a great deal of interest. One member produced a thick piece of celluloid. When this was rubbed on wool it not only attracted pieces of paper, but had enough energy to lift a match and hold it some time. We then rubbed the celluloid

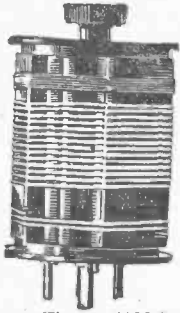
with paper, silk, linen, bakelite, etc. When rubbed with any of these materials it attracted the paper and matches. One member then took it and rubbed it between his thumb and forefinger. While he was doing this a distinct crackle could be heard. On putting out the light, and continuing the rubbing, a purple streak was seen along the celluloid. There was sufficient light from this to illuminate the experimenter's hand.

**Strad Trio Pianist**

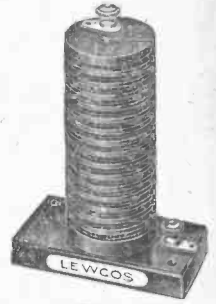
MYRA MONTAGUE, the gifted pianist of the Strad Trio, who is temporarily replacing May Broderick, has already gone far in her chosen profession, both in New Zealand and Australia. It is interesting to recall that she won the Championship and Gold Medal of New Zealand at the age of 14, and Mark Hambourg was so impressed with her playing that he suggested she should go to Germany to study under the direction of his father, but family circumstances would not permit her taking this step. She made her debut at the Christchurch Exhibition, and afterwards gave several chamber concerts, being associated with Alfred Hill and other leading musicians. Miss Montague is also a gifted cellist, and toured as the official cellist with the Stratfield Choir throughout New Zealand. Since joining the Strad Trio she has gained much favor from listeners, who appreciate her sincere and artistic work to the full.

**Lindsay Biggins**

"HALF AN HOUR WITH BRAHMS" is the heading of Lindsay Biggins' recital from 3LO on Friday evening, May 24, when the following pianoforte numbers will be rendered:—  
 "Waltzes," Op. 39.  
 "Intermezzo," E Sharp Major and B Flat Minor. Op. 118.  
 "Romance," in F Major.  
 "Intermezzo," E Flat Minor.  
 "Rhapsody," in G Minor.



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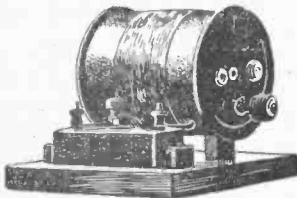
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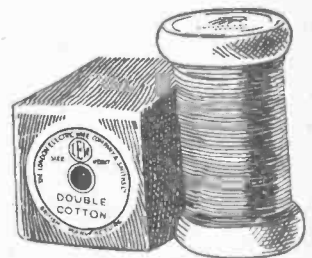
# RADIO PRODUCTS

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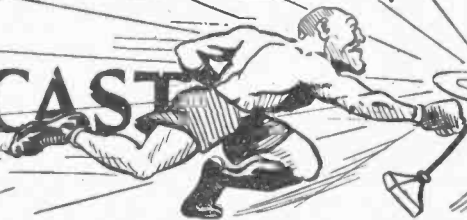
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# HITTING BELOW THE BROADCAST BELT



## Short-wave and Amateur Notes by VK2NO

**M**Y appeal for suggestions for a different heading for these notes has resulted in a very weak response on the part of readers; and, while I am not going to say that those submitted are not all suitable, the variety is lacking. Roll up with those suggestions, you short-wave fans, and enjoy tuning over the short-wave bands with a de luxe slow-motion condenser!

First of all, my thanks to Mr. Austin, of Kurri Kurri, for his suggestion. We regret that it would not be possible to run this section of "Wireless Weekly" exactly as was done in "Radio," owing to available space; but whatever short-wave notes are contributed by "hams" will most certainly be used, if only in a condensed form. This time I have more "ham" information than previously.

### R.A.A.F. RESERVE.

The first news of interest is that the Royal Australian Air Force reserve scheme for approved experimental stations is beginning to operate. The headquarters station in Victoria is VJR, and so far the stations appointed in New South Wales are:—VK2RF (section guard station) and VK2NO. Radio drills will take place from time to time to acquaint operators with R.A.A.F. operating procedure, and some very interesting methodical work is looked forward to by all parties concerned. VK2NO is unfortunately off the air for a few weeks, owing to a change of location (the writer wonders how many "hams" in the world have changed their QRA so often. When the station is re-erected VK2NO will have been operated in seven locations in Sydney.) Sunday afternoon strollers were curious to see an automobile making sundry trips between the old and the new QRA's, the rear seat of the car being loaded with power transformers, batteries, receivers, transmitters, and the like. There is no doubt but that a "ham" must be a real "ham" to take an apparently fendish delight in "taking up his bed and walking."

### 21 AND 42 METRES.

On Saturday afternoon the writer was testing a new and unique short-wave receiver, modelled after the Midget SG Four, and the amateur wave-bands (21 and 42 metres) were simply alive with activity. On both frequencies the foreign "hams" were pounding in like locals, and it was a day of paradise for the DX hound. One of the outstanding Americans on 21 was W7BE, who was using a self-rectified transmitter, apparently of the 1929 breed. The note was distinctly pleasant to listen to, and came through with a punch that suggested somewhere about 500 watts input at least. That suggestion is nothing to go by, as, when the 21-metre band behaves itself, the low-power man gets by just as well as the big fellow. Very few of our own stations were working, and, although there were a large number of "Yanks" over the band, Frenchmen, Englishmen, and sundry unknown calls seemed to be well separated, and QRM was very light.

Up on 42 metres things were also humming, and many Americans were coming through at good strength as early as 5 p.m. Sydney time. I noticed our star Australian station, VK7DX, busy on this band, and he

had the most intriguing note I have heard. He was using crystal control, PDC, and modulating it with a high-note buzzer. The effect was very pretty, and, as his signals were a good QSA5 R9 I was surprised to hear him say, in answer to a call from the VK fifth district:—"Thank heaven you called me . . . my weak signals didn't seem to be getting out, as I have called CQ for half an hour." He ought to have heard his sigs. in Sydney!

The particular receiver in use gave an excellent account of itself on international broadcasting while looking over the various bands. At 11 p.m. the Russian station, RFM, on 75 metres, was extremely powerful, and it was a pleasure to hear a Balalaika orchestra in full swing. G5SW was good from 5 a.m. to 8.30 a.m. with a relay from 2ZY, Manchester. The well-known station, W2XAF, needs no introduction when he starts up, as he plays about half a dozen records of the latest jazz before starting on his calls. KDKA has been busy over the week-end with messages to Commander Byrd, in the Antarctic, and for a while this pioneer station was working duplex telephony with 2ME.

### DISTANT CARRIER WAVES.

While looking over the channels reserved for SW telephony in the vicinity of 31 metres, the writer noticed a few distant carrier waves of varying intensity. It was impossible to clear up the modulation on these, and it would be interesting to learn who and where they are. One or two "hams" are using telephony on the 42-metre band, and, as much as this may interest the SWBCL, the practice should cease. Heaven knows that the frequency reserved in this band is little enough for key work, without spreading good, bad, or indifferent modulation over a lot of the sacred kilocycles. There is plenty of room around 80 metres for this work, and the 'phone will cover Australia and New Zealand just as well. In addition, the SWBCL will enjoy listening to 'phone better around this band, as not all of them have got their receivers perking properly below.

The Woolloowin Radio Club, VK4WN, have got their transmitter going again, after being completely rebuilt, and are testing nearly every Thursday night between the hours of 1800 and 2200, on a wave-length of 255 metres. In a week or so they will be using 80 and 42 metres. Telephony is used exclusively on 255 metres, telephony and key on 80 metres, and key only on 42 metres. The power to be used is approximately 20 watts. This club would be glad to receive reports from any amateur or listener hearing the transmissions, and will answer all

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letters with a QSL card. The address is:—Woolloowin Radio Club, G. F. J. Thomas, M'Lennan Street, Woolloowin, Brisbane, Qld.

The Granville Radio Club is one which is very active in New South Wales, although it is quite a youngster, compared to others. The transmitter used is a series-fed Hartley, with a half-wave Zepp aerial, and an input of 20 watts. Mr. P. Stevens, VK2PS, is the club's operator, and is to be heard almost nightly at the key on the 42 and 250 metre bands. This club has taken an active interest in hospital radio installations, having already been responsible for the installation of a four-valve receiver, complete with 45 sets of head-phones, in the Auburn District Hospital. At present the club is awaiting sufficient funds to equip the St. Joseph's Hospital, Auburn. Station VK2PS was one of those who reported hearing attempts to communicate with civilisation from the Southern Cross when she was marooned in West Australia. The address of this club is c/o VK2PS, 120 Good Street, Granville, N.S.W.

### PENALTY £500.

Many readers of "W.W." who have been interested in SW work have written for information on how to make small transmitters, and at times it seems that piracy has either been contemplated or indulged in. A copy of the latest information from the P.M.G. regarding operation and conditions of issue of licenses lies before me as I write, and for those who have been thinking of transmission without a license the following clause will be interesting:—

"Except as authorised by or under the Act, no person shall—

- Establish, erect, maintain, or use any station or appliance for the purpose of transmitting and receiving messages by means of wireless telegraphy; or
- Transmit or receive messages by wireless telegraphy.

Penalty: Five hundred pounds, or imprisonment, with or without hard labor, for a term not exceeding five years."

If those last few words are not enough to call for respect for the ether, then the radio law-breaker is certainly very rash.

### MR. CRANE'S REPORT.

Mr. Russell Crane's report on reception, dated May 8, reads as follows:—"Since last notes there is little to report. PCJ came in quite decently Saturday afternoon. WGY weak on Sunday . . . noticed quite a number of amateurs on 'phone. Monday night—Suva 'phone very strong, as usual. Nothing much else doing. Tuesday morning—G5SW not nearly as strong as last Friday! Atmosphere bad. Tuesday evening—No 'phone stations heard up to 9.30, and conditions bad. Wednesday morning—G5SW better than Tuesday. A very excellent programme. KGO, very good loud-speaker. WGY very faint. PHI only just audible. PHI will transmit as follows:—All this week and up to Monday next, 7 a.m. to 2 p.m. In addition, on Wednesday, Thursday, and Friday nights, commence at 10 p.m. and continue to 3 a.m. the next morning. This station should be heard well in Sydney."

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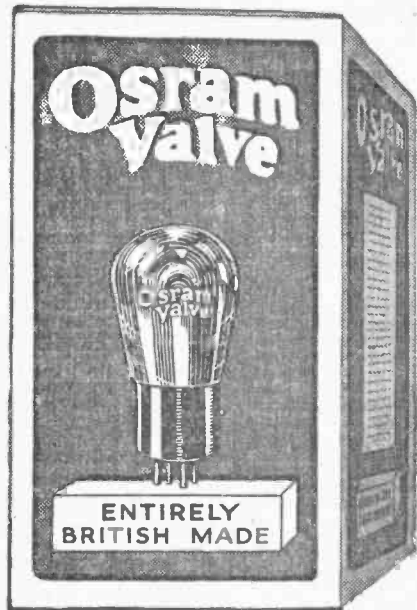
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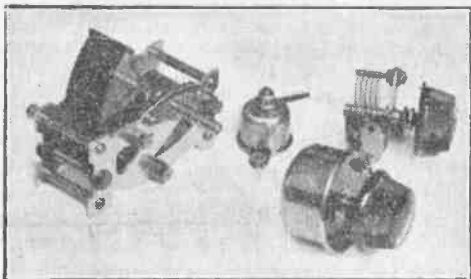
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# Trade News



## The A.W.A. Handbook for 1929

**THIS YEAR'S HANDBOOK**, published by Amalgamated Wireless Australasia, Ltd., surpasses all previous issues, which are usually available for the first time at the yearly Radio and Electrical Exhibition.

There are 168 pages crammed full of interesting articles and data, which make it a suitable reference book for the novice and the advanced fan. Among topical articles treated is an interesting explanation of radio aboard the Southern Cross, transmission of the Eucharistic Congress, the story of the first duplex telephony test with New York, and some radio achievements with Holland.

The technical side has been greatly improved on. Constructional details appear for a receiver and transmitter tester, a wave-meter and wave-trap, etc., together with many circuit and pictorial diagrams explaining distortion and its cures, grid bias, series and parallel connections, wireless symbols, and about 20 other interesting articles.

The Radio Guide published the most up-to-date list of call signs, covering Australian and New Zealand amateurs, Australian broadcasting stations, American and Canadian broadcasting stations, and short-wave stations of the world. On this list full details of the station are given.

## Interesting Lectures

A LARGE number of members of the Electrical Supply Engineers' Association of New South Wales attended at the showrooms of the British General Electric Co., Ltd., Magnet House, 104 Clarence Street, recently, and appreciated interesting lectures dealing with modern electric cooking, electric lamp manufacture, and the science of illumination.

Mr. Forbes, the company's heating engineer, gave details of the latest electric cooking methods, ranging from the "Magnet" table cooker for the domestic home to the latest industrial cooking appliances used in restaurants and leading hotels. Mr. Gunn's remarks on the manufacture of "Osram" electric lamps at the Hammersmith (London) works of the General Electric Co., Ltd., were illustrated by an exceedingly interesting film showing the process from start to finish.

## High Quality Audio Amplifier

ONE hears a great deal about super audio amplification in these days, and power amplifiers of every type are designed and produced by radio engineers. The name THORDARSON, is one known to engineers from the time radio was an infant, and, in America, this pioneer company hold, in 1929, a position of high repute in an overcrowded radio trade.

THORDARSON transformers carry behind them many years of experience, covering every angle of transformer work, whether for high voltage for transmission or the smallest of inter-valve transformers for reception. For those who are contemplating electrical reproduction of the gramophone, or true scale amplification for any purpose, the THORDARSON PUSH PULL POWER AMPLIFIER is worthy of attention. A complete combination is marketed in Sydney by Reg Rose and Company, Kembala Buildings, Margaret Street, and this combination includes an All-Electric receiver and gramophone with a THORDARSON 210 type push-pull amplifier with practically straight line amplification from 30 to 8000 cycles per second. This combination includes the well-known Magnavox Dynamic speaker and British Thomson Houston pick-up and motor.

NEW to the radio market,

In Sydney, but handled by an old and well-known company, the new Essanay condensers are interesting, because they are illustrative of the influence of modern radio requirements upon condenser design.

Midget variable condensers are finding an increasing number of applications, and not the least important of this group of Essanay condensers is the shielded midget. This condenser should find innumerable uses in receivers employing screen grid valves, and, with suitable midget coils, the short wave enthusiast should be able to turn this particular model to good account. The metal screen protecting and shielding the condenser is of lacquered copper. This applies also to the Essanay screened neutralising condenser,

which will be found an ideal type for inclusion in the 1929 Neutrodyne, as described in the Radio Exhibition number of WIRELESS WEEKLY. The standard .0005 mfd. Essanay S.L.F. variable condenser is a particularly solid engineering job, with a smooth running rotor, and a condenser which would need considerable ill-treatment to upset the alignment. The agents for all Essanay products are the well-known company of Fox and MacGillycuddy, Ltd., Daily Telegraph Building, Sydney.

## "The Captain" to His "Comradios"

(Being notes from the happy personal chats to past and present schoolboys and schoolgirls and their parents all over Australia and New Zealand. Conducted by "The Captain" every Sunday morning from station 2FC, Sydney.)

### The Right Rope

ONCE again I have to tell numerous inquirers that the right rope for skipping is called "one inch" rope. Rope is measured round, not through. A skipping rope should be nine feet long. This enables anybody to use it at just the right length desired by taking a hitch round the hands until the rope swings comfortably. Three styles of rope are available at most stores and ironmongers. They are as follow:—

- (a) Three-strand cotton rope (one inch round).
- (b) Plated Italian hemp sash-line (one inch round).
- (c) Braided cotton sash-line (one inch round).

The price should be somewhere about 1/3 or 1/6 for three yards.

### Coming Events

Saturday, June 1.—Australian University Champion Eights on the Yarra.

Tuesday, June 18.—Schools' Club Dance at the Ambassadors.

Wednesday June 26.—The Scots College O.B.U. dance at the Ambassadors.

Wednesday, June 26.—Old Sydnelans' dinner at Usher's.

Wednesday, August 7.—Old Sydnelans' dance at the Ambassadors.

Dates should be sent to "The Captain," at least, a month ahead.

### Holidays Over

I HOPE you all had a great time. Those of you who got beyond our Sydney rain zone at the beginning of the vacation will have had no regrets. How I envy some of you who told me of glowing gallops in the clear, morning, frosty air inland. Then the long, warm sunny hours of mid-day, with billy tea and damper by some rushing creek! Lucky beggars, make the most of it, for the time will come all too soon when such things will have to be just brief annual dreams. But there, it must not be said that "The Captain" is an old grouch. So, here's hoping that the new term will be full of fun, and that home work comes easy!

### Value of Skipping

I HAD a note from a comradio (I won't even put his initials here), complaining that skipping is a "cissy business," and that I should not advocate it. Now, old chap, can you skip yourself? I think not. Why, it is one of the very finest exercises for girl or boy to keep muscles fit and lithe. And as for it being a "cissy" exercise, just try it out with a proper rope, and see how it tests your wind.

Just stand at attention, toes together, and spring as lightly as possible. Count aloud. That is the real trick of it. Count aloud, and do a hundred as fast as you can. You will be glad to pause for a few deep breaths before you go in for another hundred. No finer method of strengthening the arch of the foot exists, as many a wise girl with pretty shoon can tell you.

### Rowing Reminiscences

I was delighted to receive a letter during the week from a grown-up comradio (F.E.C., Minaldra). Here it is for you all:—

"As an old rowing man (I was captain of both the Eton and Cambridge eights in my time—a very long time ago, viz., '82 and '85) I am naturally still very interested in anything to do with that sport, and, hearing your advice on Sunday morning to the coxswain who was lamenting his increase in avoirdupois, I recalled the fact that, while I was one of the crew, the late Lord Revelstoke, who died only the other day, whilst chairman of the Repatriations Committee, actually steered the Eton eight at Henley in 1880, and rowed stroke in 1881. He was then Johnnie Barings. I thought this might interest you and some of your comradios—more especially the abovementioned coxswain."

### An Australian Poem

AS you all know, I am telling you the series about "Saltbush Bill," by A. B. Paterson. Full of fun and the real atmosphere of the great cattle trails, I heartily commend "Saltbush Bill's First Fight" and "Saltbush Bill's Gamecock."

GREETING.—

So now my space is gone. Listen in to 2FC next Sunday morning at 10.15 o'clock. Good wishes to you all, comradios. Cheerio!  
"THE CAPTAIN."

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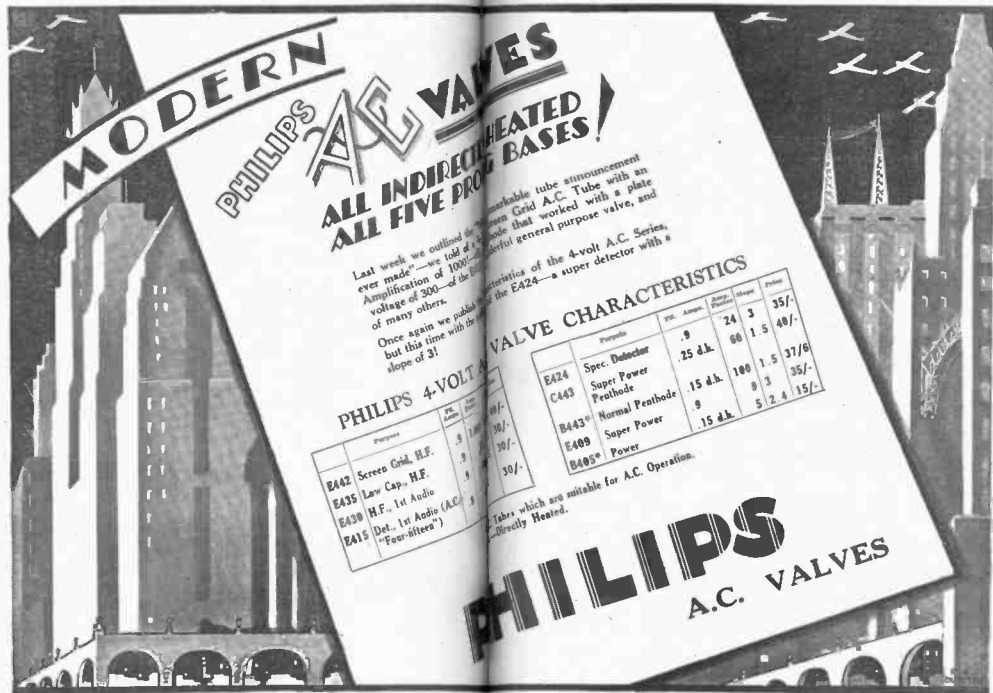
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Last week we outlined the remarkable tube announcement ever made—we told of a new type of A.C. Tube with an amplification of 1000—of a tube that worked with a plate voltage of 300—of the E424—a general purpose valve, and of many others.

Once again we published the characteristics of the 4-volt A.C. Series, but this time with the characteristics of the 4-volt A.C. Series, the E424—a super detector with a slope of 31

**PHILIPS 4-VOLT A.C. VALVE CHARACTERISTICS**

Type	Plate Voltage	Grid Voltage	Grid Current	Plate Current	Control Ratio
E424	Screen Grid, H.F.	0	0	1.0	40/-
E435	Low Cap., H.F.	0	0	1.0	30/-
E430	H.F., 1st Audio	0	0	1.0	30/-
E415	Det., 1st Audio (A.C. "Four-fifties")	0	0	1.0	30/-

**PHILIPS 4-VOLT A.C. VALVE CHARACTERISTICS**

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C443	Super Power Penthode	25 d.b.	60	1.5	40/-
B443	Normal Penthode	15 d.b.	100	1.5	37/6
E409	Super Power	0	0	3	35/-
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# Local Programmes, Friday, May 24

## 2FC

### EARLY MORNING SESSION:

Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast, rainfall, river reports, temperatures, astronomical memoranda. 7.7: "Sydney Morning Herald" summary. 7.12: Shipping intelligence, mail services. 7.15: Studio music. 7.25: Investment market, mining sharemarkets, metal quotations, wool sales, breadstuffs markets, inter-State markets, produce markets. 7.40: Studio music. 8.0: "Big Ben." Close.

### MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.2: Pianoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.45: A talk on Home Cooking and Recipes, by Miss Ruth Furst. 11.0: "Big Ben." A.P.A. and Reuter's cable services. 11.5: Close.

### MIDDAY SESSION.

Announcer: A. S. Cochrane.

12.0: "Big Ben" and announcements. 12.1: Stock Exchange, first call. 12.3: Official weather forecast, rainfall. 12.5: Summary of news, "Sydney Morning Herald." 12.10: Rugby by Wireless news. 12.13: A reading. 12.15: From Martin Place: Empire Day Celebration. 12.45: Studio music. 1.0: "Big Ben." Weather intelligence. 1.3: "Evening News" midday news service. Producers' Distributing Society's report. 1.20: Studio music. 1.28: Stock Exchange, second call. 1.30: Studio music. 2.0: "Big Ben." Close.

### AFTERNOON SESSION.

Announcer: Laurence Halbert.  
Accompanist: Ewart Chapple.

2.30: Programme announcements. 2.32: The Book Lover's Corner. 3.0: "Big Ben." Popular music. 3.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 3.40: From the Studio: Daniel Hardy, baritone. 3.46: A reading. 4.11: Popular music. 4.21: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.31: The Rev. Father T. A. Walsh, S.J., will speak on "Umbrellas." 4.45: Stock Exchange, third call. 4.47: Daniel Hardy, baritone. 4.54: Popular music. 5.0: "Big Ben." Close.

### EARLY EVENING SESSION.

Announcer: A. S. Cochrane.

5.40: The chimes of 2FC. 5.45: The Children's Session, conducted by the "Hello Man." Letters and stories. Music and entertainment. 6.10: The Farmyard Five from Kookaburra Gully. 6.30: Dalgety's market reports (wool, wheat, and stock). 6.40: Fruit and vegetable markets. 6.43: Stock Exchange information. 6.48: Weather and shipping news. 6.50: Rugby Wireless news. 6.55: Late sporting news by the 2FC Racing Commissioner. 7.5: "Big Ben." Late news service. 7.10: From Farmer's Restaurant: In conjunction with Farmer's Orchestra a programme of dinner music arranged by the New South Wales Broadcasting Company.

### EVENING SESSION.

Announcer: Laurence Halbert.  
Accompanist: Ewart Chapple.

7.45: Programme announcements.  
7.48: A Record Recital.  
8.0: "Big Ben." By arrangement with J. C. Williamson, Ltd., a Theatrical Transmission will be arranged this evening.  
9.0: Weather report.  
9.1: "Big Ben." From the Studio: Ambrose Bourke, baritone—  
(a) "The Lute Player" (Allitsen).  
(b) "They Say" (Evans).  
9.8: The Laughing Philosopher.  
9.18: Amy Firth, mezzo—  
(a) "Tere's a Land" (Allitsen).  
(b) "Poor Man's Garden" (Russell).  
9.25: From the Arcadia Theatre, Chatswood: Nicholas Robins at the Wurlitzer Organ.  
9.45: From the Studio: Ambrose Bourke, baritone—  
(a) "The Floral Dance" (Moss)  
(b) "Three" (Aylward).  
9.52: The Laughing Philosopher.  
10.2: Amy Firth, mezzo—  
(a) "Land of Hope and Glory" (Elgar).  
(b) "Gleaner's Slumber Song" (Waltheu).



Dismal Desmond will be on the air at 2BL this afternoon.

10.9: From the Arcadia Theatre, Chatswood: Nicholas Robins, at the Wurlitzer Organ.  
10.28: Weather report, and to-morrow's programme.  
10.30: National Anthem. Close.

## 2BL

### MORNING SESSION.

Announcer: A. C. C. Stevens.

8.0: G.P.O. Chimes. Weather report—State and Metropolitan. 8.3: Studio music. 8.30: G.P.O. Chimes. News and information service from the "Daily Telegraph Pictorial." 9.0: G.P.O. Chimes. Studio music. 9.30: G.P.O. Chimes. Half an hour with silent friends. 10.0: G.P.O. Chimes. Close.

### MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. Chimes. 2BL Women's Sports Association Session, conducted by Miss Gwen Varley. Talk on "Needlecraft," by "Priscilla." 11.30: Advertising hints. 11.40: Women's Session, conducted by Mrs. Cranfield. Nurse May will speak on "Infant Welfare." 12.0: G.P.O. Chimes. Special ocean forecast and weather report. 12.3: The Melody Trio, instrumentalists. 12.30: Shipping and mails. 12.35: Market reports. 12.45: From Martin Place: Empire Day Celebration. 1.0: The Melody Trio, instrumentalists. 1.30: Talk to children and special entertainment for children in hospital, by Uncle Steve. 2.0: G.P.O. Chimes. Close down.

### AFTERNOON SESSION.

Announcer: A. C. C. Stevens.  
Accompanist: Kathleen Roe.

3.45: G.P.O. Chimes. The Melody Trio. 4.0:

G.P.O. Chimes. Dismal Desmond, comedian. 4.7: Captain Stevens will speak on "The Hunt for Gold—Fortunes in the single stroke of a Pickaxe." 4.22: The Melody Trio. 4.32: Dismal Desmond, comedian. 4.40: A talk on "Empire Shopping Week." 4.50: The Melody Trio. 5.0: G.P.O. Chimes. "Sun" news service. 5.7: Pianoforte reproduction. 5.30: Studio items. 5.34: Producers' Distributing Society's poultry report. 5.37: Features of the evening programme.

### EARLY EVENING SESSION.

Announcer: Basil Kirke.

5.40: Children's Session, conducted by Uncle Bas. Music and entertainment; letters and stories. 6.30: "Eun" news and late sporting. 6.40: From Farmer's Restaurant: In conjunction with Farmer's Orchestra, a programme of dinner music arranged by the New South Wales Broadcasting Company. 7.7: Australian Mercantile, Land and Finance Co.'s report. Weather report and forecast, by courtesy of Government Meteorologist. Producers' Distributing Society's fruit and vegetable market report. Grain and fodder report ("Sun"). Dairy produce report ("Sun"). 7.25: Mr. Pim and Miss Pam in advertising talks, handy hints, and nonsense. 7.53: An ad. special. 7.55: Programme and other announcements.

### EVENING SESSION.

Announcer: Basil Kirke.

Accompanist: Ewart Chapple.  
8.0: G.P.O. Chimes. Light Orchestra, conducted by Horace Keats—  
(a) "Rhapsodantise on Themes" (Fraiz Liszt).  
(b) "Sinbad" (Romberg and Jolson).  
8.20: Charles Lawrence, entertainer.  
8.30: Light Orchestra, conducted by Horace Keats—  
Grand Fantasia, "Faust" (Goundou).  
8.50: Charles Lawrence, entertainer.  
9.0: G.P.O. Chimes. From the Hotel Australia: Annual Empire Day Dinner of the Royal Empire Society, N.S.W. Branch.  
Assisting Artists: Dorrie Ward and Mr. A. E. Y. Benham.  
10.0: From the Studio: C. R. Dexter, talk on "General Sporting."  
10.15: Billie Cresswell, popular vocalist.  
10.22: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.  
10.32: From the Studio: Billie Cresswell, popular vocalist.  
10.39: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.  
10.57: To-morrow's programme.  
10.59: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.  
11.30: National Anthem. Close.

## 2GB

10.0: Music. 10.10: Happiness talk by A. E. Bennett. 10.20: Music. 10.30: Women's session, by Miss Helen J. Beegling. 11.45: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. Dorothy Jordan. 2.50: Music. 3.30: Close down. 5.30: Children's session, by Uncle George. 7.0: Music. 7.30: Feature story. 8.0: Miss Thelma Lansdowne, contralto. 8.7: Mr. Reginald Duncan, violinist. 8.15: Mr. Cecil Houghton, tenor. 8.22: Instrumental music. 8.30: Humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 8.35: Miss Elsie Peerless, soprano. 8.45: Address. 9.0: Weather report. 9.3: Instrumental music. 9.10: Miss Thelma Lansdowne, contralto. 9.20: Mr. Reginald Duncan, violinist. 9.30: Humorous interlude. 9.35: Mr. Cecil Houghton, tenor. 9.45: Instrumental music. 9.50: Miss Elsie Peerless, soprano. 10.0: Dance music. 10.30: Close down.

## 2UW

### MIDDAY SESSION.

12.30: Request numbers. 1.0: G.P.O. clock and chimes. Music. 1.15: Talk on Homecraft, by "Pandora." 1.40: Music and request numbers. 2.30: Close down. 4.30: Musical programme.

### EVENING SESSION.

5.30: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: G.P.O. clock and chimes. Music and request numbers. 9.0: G.P.O. clock and chimes. Comments on Foreign affairs by Mr. J. M. Prentice. 9.10: Music and request numbers. 10.30: Close down.

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# Interstate Programme, Friday, May 24

## 3LO

### EARLY MORNING SESSION.

7.15: Morning melodies. 7.20: Morning exercises to music. 7.30: Stock reports. Stock Exchange information; general news; shipping and sporting information. 8.0: Melbourne Observatory time signal. 8.1: Morning melodies. 8.15: Close down.

### MORNING SESSION.

11.0: To-day's radio recipe: Steamed Fish. 11.5: "Au Fait" will speak on "Fashions." 11.20: Musical interlude. 11.25: Under the auspices of the Young Women's Christian Association, Miss Kimura San, on the eve of her departure for Japan, will give some of her impressions of Australia. 11.40: Musical interlude. 11.45: Under the auspices of the Department of Health, Miss Muriel A. Peck will speak on "The Growth of Infant Welfare Work in Victoria."

### MIDDAY SESSION.

12.0: Melbourne Observatory time signal. 12.1: British official wireless news from Rugby; Reuters' and the Australian Press Association cables; "Argus" news service. 12.15: Newmarket stock sales; special report by the Associated Stock and Station Agents, Bourke Street, Melbourne. 12.20: The Station Orchestra. 12.30: Jack Stocks, "The Woman Hater." 12.37: Stock Exchange information; prices received this day from the London Stock Exchange by the Australian Mines and Metals Association. 12.45: The Station Orchestra. 13.55: Gertrude Gray, mezzo-soprano. 1.2: Meteorological information; weather forecast for Victoria, New South Wales, South Australia, and Tasmania; ocean forecast; river reports; rainfall. 1.12: The Station Orchestra. 1.22: "The Kaulais," Hawaiian instrumentalists. 1.30: Jack Stocks. "The Woman Hater." 1.36: The Station Orchestra. 1.40: Gertrude Gray, mezzo-soprano. 1.47: Close down.

### AFTERNOON SESSION.

2.15: The Station Orchestra. 2.25: Marie Magan, soprano. 2.30: Special Empire Day programme by scholars of Spring Vale State School, Malvern. 3.15: Miss Frances Fraser, soprano, on "A Nineteenth Century Queen." 3.30: Miss Fraser's talk will be followed by a suitable song recital by E. Mason Wood, baritone. 3.40: Dawn Assheton, Coloratura soprano, and Laszlo Schwartz, violin. 4.20: Captain Donald Maclean. 4.35: The Station Orchestra. 4.40: Marie Magan, soprano. 4.47: "Herald" news service; Stock Exchange information; announcements; during the afternoon results of the Ballarat Miners' races will be broadcast as they come to hand. 5.0: Close down.

### EARLY EVENING SESSION.

6.0: Answers to Letters and birthday greetings by "Billy Bunny." 6.25: Musical interlude. 6.30: Captain Donald Maclean will tell some more about "The Pirates of the Past."

### EVENING SESSION.

6.50: Madame Soward—"Frensh Without Tears." 7.5: Stock Exchange information. Official report of the Newmarket stock sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Latest truck orderings for next week's markets. Fish market report by J. R. Borrett, Ltd. Rabbit prices. River reports. Rainfall. Weather synopsis. Market reports of the Victorian Fruit and Vegetable Co., Ltd. Farm and dairy produce and carcass meat reports. Market reports of fruit by the Victorian Fruitgrowers' Association. Retail prices. Wholesale prices of fruit by the Wholesale Fruit Merchants' Association. Citrus fruits. 7.30: News session. 7.43: Birthday greetings. 7.45: Out of the Past. Under the auspices of the Department of Agriculture, J. Fodders for Milk Production. 8.0: A Maker of History.

### NIGHT SESSION.

8.1: Programme announcements. 8.2: E. K. Love will speak on "Technicalities." 8.15: Collingwood Band—March, "Divisional Command." Overture, "Anna Bolina" (Donizetti). 8.25: Ernest Wilson, bass-baritone—"The Horn." "When the Cabin Porchholes" (German). A Piano Recital; Half an hour with Brahma. "Waltzes," Op. 39. "Waltzes," Op. 29. "Intermezzo," E Sharp Major and B Flat Minor, Op. 118. "Romance," in F Major. "Intermezzo," E Flat Minor. "Rhapsody," in G Minor. 8.50: Dawn Assheton, Coloratura soprano, and Laszlo Schwartz, violin. "A Cameo of Music." Folk Songs and Fairy Tunes from Many Musical Lands. 9.0: The Collingwood Citizens' Band—Selection, "Community Land." 9.50: Eric Welch will speak on to-morrow's races at Moonee Valley. 9.57: The Collingwood Citizens' Band—Humorous, "Slidin' Thro' the Rye." "Ave Maria" (Schubert). Soloist, A. Franks. 10.7: News service. British official wireless news from Rugby; meteorological information; announcements. 10.17: The Jedal Trio (Alva Hattenbach violin, Edna Hattenbach 'cello, John Simons piano)—A Slavonic programme—The Trio—"Andante" (Tschakowsky). "Polish Dance" (Scharwenka). Edna Hattenbach, 'cello—

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"Berceuse" (Rimsky-Korsakov).

The Trio—"Elegie" (Rachmaninoff).

Alva Hattenbach, violin—"Slavonic Dance" (Dvorak-Kreisler).

The Trio—"Berceuse" (Lysycki).

"Mazurka Russe" (Glinka).

10.47: Ernest Wilson, bass-baritone—"My Lodging is the Cellar Here" (Traditional).

"The Bedouin Love Song," by request (Pinsuti).

10.55: The Radio Revellers—"Money" (Simons).

"Flower of Love" (Koenig).

"When the Right One Comes Along" (Gilbert).

"Wear a Hat With a Silver Lining" (Sherman).

"One Alone" (Koenig).

"Just Give the Southland to Me" (Sissell).

"The Desert Song" (Romberg).

"A Room With a View" (Coward).

Selected.

11.30: God Save the King.

## 3AR

### MORNING NEWS SESSION.

10.0: G.P.O. clock says "Ten." 10.1: "Age" market reports; farm and station produce, fruit, fish, vegetables. 10.25: "Age" shipping reports; ocean forecast. 10.30: Mail notices; express train information. 10.35: "Age" news service, exclusive to 3AR. 10.50: Weather forecast.

### MORNING MUSICAL SESSION.

11.0: Symphony. 12.20: British official wireless news. Announcements. 12.30: Close down.

### AFTERNOON SESSION.

3.0: Ballads. 3.10: The Strat Trio. 3.38: Ballads. 3.48: Frank Johnston, 'cello—"Andante and Gavotte" (Handel). 3.54: Beautiful ballads. 4.20: The Strat Trio. 4.30: Close down.

### EVENING SESSION.

6.0: Rhythms. 6.30: The Kaulais. 6.37: Ballads. 6.45: The Kaulais. 8.52: Ballads. 7.10: News service; announcements. 7.20: Orchestral Chers d'Ouvre.

### NIGHT SESSION.

8.29: Did you know that. 8.30: Community Singing from Collingwood Town Hall. 10.0: The Discus Ensemble in Vocal Variations. 10.20: News service; announcements; God Save the King.

## 4QG

### EARLY MORNING SESSION.

7.43: Time signals. 7.45: News service. 8.0: Records. 8.15: News service. 8.30: Close down.

### MORNING SESSION.

11.0: Music. 11.5: Social news. 11.15: Lecturette. 11.45: Wurilzter organ. 12.0: Close down.

### MIDDAY SESSION.

1.0: Market reports, weather information. A lunch-hour entertainment by the State Insurance Lunch Hour Club. 1.45: Records. 2.0: Close down.

### AFTERNOON SESSION.

A programme of music by the Studio Orchestra, including: Overture, "Queen of Autumn" (Bigge). Valse de Salon, "Chanson d'April" Selection, "Opera Bouquet" (Bldgood). Novelty Rag, "Mister Buzz Saw" (Kastovsky). Melody, "Before Sunrise." One-step, "In the Sweet Long Ago" (Lange). March, "The Ambition" (Maitland). Afternoon news service. 4.30: Close down.

### EARLY EVENING SESSION.

6.0: Mail train running times; mail information; shipping news. 6.5: Dinner music. 6.30: Commer-

cial announcements. 6.30: Bedtime stories, conducted by "The Sandman." 7.0: News in brief. 7.1: Stock Exchange news. 7.6: Metal quotation. 7.15: Market reports. 7.25: Fenwick's stock report. 7.30: Weather information. 7.40: Announcements. 7.41: Standard time signals. 7.45: To-morrow's opening fixtures reviewed.

### NIGHT SESSION.

8.0: The Citizens' Empire Day Rally, arranged by His Worship the Mayor of Brisbane (Ald. W. G. Jolly, C.M.G.), will be relayed from the Exhibition Hall. Music will be supplied by the Brisbane Municipal Concert Band (conductor, E. Jackson). The City Tabernacle Choir (conductor Mr. Sydney May, and Mr. Sydney May's 400 Double Quartet in Worship the Mayor (Ald. W. G. Jolly, C.M.G.) will preside, and there will be speeches by prominent citizens. 10.0: News, weather. Close down.

## 5CL

### MORNING SESSION

11.0: Chimes. 11.1: Morning melodies. 11.11: "Economist": Kitchen craft and menu talk. 11.49: Mr. L. G. Cant, will speak on the work of the St. John Ambulance Association. 12: 30: Musical interlude. 12: 15: General news service; British official wireless news. 12: 52: Railway information; Stock Exchange information; meteorological information. 1.0: Chimes. 1.3: Community sing from the Adelaide Town Hall. 2.0: Close down.

### AFTERNOON SESSION.

3.0: Chimes and resume of Ballarat race results. 3.1: Solomon Sisters, instrumentalists. 3.10: Celia Genot, M'Neil, soprano. 3.17: Dave Howard, saxophonist. 3.23: Betty Botten, contralto. 3.30: Solomon Sisters, instrumentalists. 3.40: Celia Genot, M'Neil, soprano. 3.45: Dave Howard, saxophonist. 4.0: Chimes. 4.1: Resume of Ballarat race results. 4.3: Solomon Sisters. 4.15: A short lecturette, with illustrative recordings, by Horne Perkins, Mrs. Eac. A. M. U. A. 4.35: Stock Exchange information. 5.0: Chimes and resume of Ballarat race results. Close down.

### EVENING SESSION.

6.0: Chimes. 6.1: Birthday greetings, correspondence, songs and stories by "Miss Wireless." 6.30: An interlude of dinner music. 6.50: 50th sporting service supplied by "Meo" Manning, including a special late review of the Cup Handicap and other races at Victoria Park and Moonee Valley to-morrow. 7.0: Chimes. 7.1: Stock Exchange information. General market reports. 7.10: "Meo" Manning of "Football." 7.25: Keith Minchin. 7.40: Mr. A. Grenfell Price, M.A., F.R.G.S., will continue his talks on "Pioneers of Australia."

### NIGHT SESSION.

8.0: Chimes. 8.1: Boake-Smith's Palais Royal Band—"We My Honey, and Me" (Tobias). "Promise Me" (Van Cothals). "The Rag Doll" (Fellen). 8.10: Celia Genot, M'Neil, soprano—Selections from her repertoire. 8.14: Boake-Smith's Palais Royal Band—"Wind Ring Bell" (Fellen). "There's a Rainbow Round My Shoulder" (Dreier). "Me and the Man in the Moon" (Leslie). 8.24: Jack Burgess, entertainer. In a new number, "The Yule Log" (Youmans). 8.28: Boake-Smith's Palais Royal Band—"Just Like a Melody Out of the Sky" (Donaldson). "Avalon Town" (Brown). "I'm Sorry, Sally" (Kahn). 8.38: Tom O'Dea, comedian, will entertain you. 8.41: Boake-Smith's Palais Royal Band—"Old-Fashioned Locket." "Bouquet of Memories" (Aks). 8.47: Edna Lawrence, contralto—"The String of Pearls" (Levall Phillips). 8.50: Boake-Smith's Palais Royal Band—"Laugh, Clown, Laugh" (Lewis). "Flower of Love" (Dryer). "Together" (De Sylva). 9.0: Chimes. 9.1: Meteorological information, including correspondence. 9.2: Overseas grain report. 9.5: Boake-Smith's Palais Royal Band—"Sally of My Dreams" (Kernell). "Sonny Boy" (Aks). "Old Man Sunshine" (Dixon). 9.12: Jack Burgess, entertainer, in another new number, with the accompaniment. 9.15: Boake-Smith's Palais Royal Band—"Out of the Dawn" (Donaldson). "Another I Still Have You" (Johnson). "Mistral" (Mars). 9.24: Celia Genot, M'Neil, soprano—Selections from her repertoire. 9.27: Boake-Smith's Palais Royal Band—"Sometimes Fun" (Youmans). "All By Myself in the Moonlight" (Stafford). "Dream House" (Davis). 9.45: Tom O'Dea, comedian—More comicallities. 9.50: Boake-Smith's Palais Royal Band—"Ricketty Ricketty Shack" (Tobias). "Livv of Love" (Levall Phillips). "Mim, All Mine" (Stent). 9.45: Edna Lawrence, contralto—"Old Man Sunshine" (Dixon). 8.50: Boake-Smith's Palais Royal Band—"I Just Roll Along" (Trent). "Beautiful" (Shay). "Mexican Serenade" (Terese). 10.0: Jack Burgess, entertainer, will sing, with ukulele accompaniment.

10.3: Boake-Smith's Palais Royal Band—  
 "Girl of My Dreams" (Clapp).  
 "High Up on a Hilltop" (Baer).  
 "Dem Golden Slippers" (Fox).  
 10.12: Tom O'Dea, comedian, will entertain you again.  
 10.15: General news service; British official wireless news; meteorological information; announcements.  
 10.20: 5CL's sporting service, supplied by "Silvius," including selections for Victoria Park and Moonee Valley races.  
 10.30: Boake-Smith's Palais Royal Band—  
 "Sweet Sue" (Harris).  
 "Carolina Moon" (Davis).  
 "I Can't Do Without You" (Berilla).  
 "Oh, You Have No Idea" (Dougherty).  
 "Last Night I Dreamed You Kissed Me" (Kahn).  
 "Precious Little Thing They Call Love" (Davis).  
 "I Fell Head Over Heels in Love" (Thayer).  
 "I Loved You Then" (Akst).  
 "Halleluyah" (Youmans).  
 "Bluebird Sing Me a Song" (Davis).  
 11.0: Close down.

**6WF**

12.30: Tune in. 12.35: Markets, news, etc. 1.0: Time signal. 1.1: Weather bulletin, supplied by the Meteorological Bureau of Western Australia. 1.3: Old-time music from the studio by the Misses Chapman and Audrey Dean. 2.0: Close down. 3.30: Tune in. 3.35: Musical programme, relayed from the Primrose Cafe de Luxe. Vocal items from the studio. 4.30: Close down. 6.45: Tune in. 6.48: Bedtime stories by Uncle Duffy. 7.5: Light music by the Station Trio. 7.30: Commercial and general information. 7.45: Racing talk by the Sporting editor of the "Truth" Newspaper Co., Ltd. 8.0: Time signal. 8.1: First weather bulletin. 8.3: Empire Day Concert, relayed from Hoyt's Regent Theatre, Choir of 200 voices, conducted by Mr. D. Davies. 8.50: Late news items by courtesy of "The Daily News" Newspaper Co., Ltd.; station announcements; ships within range announcement; late weather bulletin. 9.5: Programme continued from Hoyt's Regent Theatre. 10.30: Close down.

**104.5 METRE TRANSMISSION.**

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

**7ZL**

**MIDDAY SESSION.**

Announcer: Jack Broadbent. 11.0: Transmission from Franklin Square, Laying-on of wreaths on Sir John Franklin's Statue, late Governor of Tasmania. 11.30: Selections. 11.33: Weather information. 11.55: Tasmanian station's 9 a.m. weather report. 12.0: Chimes. 12.1: Shipping information; ships within wireless range; mail notices; housewives' guide; commercial news. 12.11: British official wireless news. 12.29: Announcements. 12.55: News service; railway auction produce sales, held at Railway. 1.30: Close down.

**AFTERNOON SESSION.**

9.0: Chimes. 3.4: Weather information. 3.15: A musical hour, including:—Donald Lindley, trumpet solo; Australian Commonwealth Band; Harry Luder, baritone; Jas. Compton, cornet solo; Goodrich Silver Quartet; G. H. Green, xylophone solo; Maria Kunko, soprano; Stanley McDonald, organ solo; Evan Williams, tenor; Kirby Lunn, contralto; National Military Band; Tudor Davies, baritone. 4.15: Readings from the "Weekly Courier." 4.30: Close down.

**EARLY EVENING SESSION.**

6.15: Selections. 6.30: "The Story Lady" will tell a story to the little ones. 7.0: Answers to letters and birthday greetings by "Uncle David" and "The Story Lady." 7.10: News service; Railway auction produce sales, held at Railway; Tasmanian district weather report; announcements.

**EVENING SESSION.**

7.15: Sid Jones will speak on "Football Fancies."  
 7.30: A Studio concert. Doris M'Courrie, contralto—"Spinnings" (Clarke), "That's All" (Brahe). 7.37: Alfred Lester, English Monologue—"The Village Fire Brigade." 7.40: Fred Heraud, baritone—"Home," "Mulleter of Malaga." 7.47: The Black Diamonds Band—"Lohegrin" Selection, part 1 (Wagner). 7.50: Jean Elbbard, soprano—"A Mother's Song" (Clayton), "Listening" (Facker). 7.57: Spencer Shaw, organ solo—"In a Monastery Garden" (Ketylby). 8.0: Alfred Sargison, tenor—"Salaam," "Two Eyes of Grey." 8.7: Band of His Majesty's Goldstream Guards—"Jolly Boys" (Partridge). 8.10: Doris M'Courrie, contralto—"Three Fishers" (Hullah), "Wish O' My Heart" (Travers). 8.17: Herbert Dawson, organ solo—"Meditation" (Devery). 8.20: Fred Heraud, baritone—"In Thy Harp," "Lull Cor" (Weser). 8.27: De Crook English, violin and piano—"Chanson Triste" (Teschakowsky). 8.30: Jean Elbbard, soprano—"A Glance," "Mattinata" (Tosti). 8.37: The Black Diamonds Band—"Lohegrin" selection, part 2 (Wagner). 8.40: Alfred Sargison, tenor—"Fifth." "Drink to Me Only." 8.45: J. M. Counsel—"The History and Development of Music." 9.45: News service; British official wireless news; Railway auction produce sales, held at Railway; weather information; Hobart Stock Exchange quotations; market reports from Messrs. Roberts and Co.; Wise and Stirling and T. Thorpe, and Co., Railway week-end information. 10.0: Chimes. 10.1: Close down.



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## Local Programmes, Sat., May 25

### 2FC

#### EARLY MORNING SESSION.

Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfall; river reports; temperatures; astronomical memoranda. 7.7: "Sydney Morning Herald" summary. 7.12: Shipping intelligence; mail services. 7.15: Studio music. 7.25: Investment market; mining sharemarkets; metal quotations; wool sales; breadstuffs markets; Inter-State markets; produce markets. 7.40: Studio music. 8.0: "Big Ben" Close.

#### MORNING SESSION.

Announcer: Eric Bessemer.

10.0: "Big Ben" and announcements. 10.2: Pianoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.30: Last minute sporting information by the 2FC Racing Commissioner. 10.40: Studio music. 10.45: A talk on Gardening, by J. G. Lockley ("Redgum"). 11.0: "Big Ben." A.P.A. and Reuter's cable services. 11.5: Close down.

#### MIDDAY AND AFTERNOON SESSIONS.

Announcers: Ewart Chapple, Laurence Halbert.

Race results from Victoria Park. 12.0: "Big Ben," and announcements. 12.2: Stock Exchange information. 12.4: Studio music. 12.10: "Sydney Morning Herald" news service. 12.15: Rugby wireless news. 12.20: Studio music. 12.50: From Warwick Farm, description of the races in running. From the studio, during intervals musical items by the Popular Trio. 4.45: Complete sporting and racing resume. 5.0: "Big Ben." Close.

#### EARLY EVENING SESSION.

Announcer: A. S. Cochrane.

5.40: The chimes of 2FC. 5.45: Children's session from Bodington, Wentworth Falls, music and entertainment. 6.40: Stock Exchange information. 6.45: Weather and shipping news. 6.47: Rugby wireless Ben." Late news service. 7.10: "Big news. 6.52: Late sporting news. 7.0: "Big Ben." Late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace Keats, (a) "Sans Souci" (Von Blon); (b) "Told at Twilight" (Huerter), (c) "Tina" (Rubens), (d) "Winds in the Trees" (Goring-Thomar), (e) "Valse Espagnole" (Saenger), (f) "One Hour" (Longstaffe).

#### EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.  
7.45: Programme announcements.  
7.48: A record recital.  
8.0: "Big Ben." From Bodington Red Cross Home, Wentworth Falls. A hospital concert party on the occasion of the official opening of the installation of wireless throughout the hospital. The programme is directed by Charles Lawrence, and he has the assistance of John Benjamin, Arthur Prince, Dorothy Dewar, and Maise Otey.  
9.30: From the studio: Weather report.  
9.31: Studio Dance Band, conducted by Cec. Morrison.  
9.46: Peggy Thomas, popular vocalist.  
9.53: Studio Dance Band conducted by Cec. Morrison.  
10.8: Peggy Thomas, popular vocalist.  
10.15: Studio Dance Band conducted by Cec. Morrison.  
10.28: Late weather.  
10.30: Studio Dance Band, conducted by Cec. Morrison.  
10.57: To-morrow's programme.  
10.59: Studio Dance Band, conducted by

### 2BL

#### MORNING SESSION.

Announcer: A. C. C. Stevens.

8.0: G.P.O. chimes. Weather report, and metropolitan. 8.3: Studio music. G.P.O. chimes. News and information service from the "Daily Telegraph Press." 9.0: G.P.O. chimes. Studio music. G.P.O. chimes. Half an hour with our friends. 10.0: G.P.O. chimes. Close.

#### MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. chimes. Women's session, conducted by Mrs. Cranfield. What's on the pictures and theatres. 11.30: Advertising hints. 11.40: Talk on "Gardening" by J. Cooper, Park Superintendent, City Coast. 12.0: G.P.O. chimes. Special ocean forecast and weather report. 12.3: Studio music. 12.30: "Sun" midday news service. 12.40: Studio music. 12.50: "Sun" midday news service. 1.0: Studio music. 1.10: "Sun" news service. 1.20: "Studio music. 1.40: "Sun" midday news service. 1.50: Studio music. G.P.O. chimes. Close.

Note:—Race results from Warwick Park and Victoria Park will be broadcast by arrangement with "Sun" Newspapers.

#### AFTERNOON SESSION.

Announcers: Eric Bessemer, Basil Kirke. 3.0: From the Sydney Sports Ground, description of the football match; during intervals dance music from Romano's. Complete sporting and racing resume. 4.45: Features of the evening's programme.

#### EARLY EVENING SESSION.

Announcer: Basil Kirke.

5.40: Children's session, conducted by Bas. Music and entertainment. Letters and stories. 6.30: "Sun" news and late sports. 6.40: 2BL Dinner Quartet—(a) "Tesoro Mio" (Beuceli), (b) "Vesperale" (Scott), (c) "The Hoffmann" (Offenbach), (d) "When My Dream is There" (d'Hardelot), (e) "Spanish Dance" (Moszkowski). E.7: Complete sporting and racing resume. 7.30: Mr. Pam at Miss Pam in advertising talks, handy hints and nonsense. 7.53: An ad. special. Programme and other announcements.

#### EVENING SESSION.

Announcer: J. Knight Barnett.  
Accompanist: J. Knight Barnett.

8.0: G.P.O. chimes. The Snappy Trio, vocal and instrumental—(a) "The Doctor of Hecedy" (Fels); (b) "My Angelina" (Warr); (c) Piano novelty, "Wedding of the Piano Doll" (Brown), Connie Corfan; (d) "Bey" (Shilkret).  
8.15: The Troubadours.  
8.30: Popular programme.  
9.30: Weather report.  
9.31: The Snappy Trio, vocal and instrumental—(a) "Wear a Hat with a Silver Lining" (Austin), (b) popular song, "When the Curtain Comes Down" (Sherman), Heald Harding; (c) Banjo-ukulele solo, "The Memory of Love" (Donaldson), May Bailey; (d) "What a Girl, What a Night" (Sanders).  
9.46: The Troubadours.  
10.0: G.P.O. chimes. Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.  
10.10: From the studio, late "Evening News" service.  
10.20: Romano's Dance Orchestra, conducted by Bennie Abrahams.  
10.28: From the studio, late weather report.  
10.30: Romano's Dance Orchestra, conducted by Bennie Abrahams.  
10.57: To-morrow's programme, conducted by Bennie Abrahams.  
10.59: Romano's Dance Orchestra, conducted by Bennie Abrahams.  
11.30: National Anthem. Close down.

### 2GB

3.0: Musical session. 5.30: Children's session by Uncle George. 7.0: Request programme. 8.0: Instrumental and dance music. Close down.

### 2UW

5.30 p.m.: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Musical programme. 10.0: Close down.

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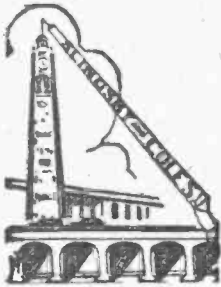
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**Local Programmes, Sunday, May 26**

**2FC**

**MORNING SESSION.**

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.2: News service. 10.20: The Captain and his Comrades. 10.35: The Comrados Bookshelf. 10.40: Studio music. 11.0: From St. Mary's Cathedral, High Mass. 12.15; Approx. Close down.

**AFTERNOON SESSION.**

Announcer: Eric Bessemer.

2.30: Programme announcements. 2.32: Children's session, conducted by the "Hello Man." 3.15: C. S. Yarwood will speak on Dorothea Mackellar. 3.30: From the Manly Band Rotunda, Manly Beach, the Manly Municipal Band, conducted by James Pheloung. 5.0: "Big Ben." Close.

**EVENING SESSION.**

Announcer: Laurence Halbert.

6.0: "Big Ben." Programme announcements. 6.2: C. R. Hall tells a tale. 6.30: A musical programme, arranged by the Empire Trio. 7.0: From Petersham Congregational Church, evening service, conducted by Rev. A. P. Doran—

Invocation and Lord's Prayer.  
Hymn, "Before Jehovah's Throne."  
Responsive reading.  
Psalms 27-32.  
Quartet.  
Lesson.  
Hymn, "How Sweet the Name of Jesus."  
Prayer.  
Anthem.  
Hymn, "Tell Me the Old Story."  
Sermon.  
Hymn, "Take My Life."  
Benediction.

8.30: From the studio, weather report.  
8.31: From the Manly Band Rotunda, Manly Beach, the Manly Municipal Band, conducted by James Pheloung.  
9.30: From the studio, Alfred Cunningham baritone.  
9.37: Kathleen Roe, pianist.  
9.47: Madame Emily Marks, soprano.  
9.54: Alfred Cunningham, baritone.  
10.1: Madame Emily Marks, soprano.  
10.8: A recital of selected records.  
10.30: National Anthem. Close.

**2BL**

**MORNING SESSION.**

Announcer: A. C. C. Stevens.

11.0: G.P.O. Chimes.  
From St. Jude's Church of England, Randwick:  
The Morning Service, conducted by Rev. Canon Cakebread.  
12.15 Approx.: From the Studio: "Sun" news service.  
12.30: Studio music.  
2.0: G.P.O. Chimes. Close.

**AFTERNOON SESSION.**

Announcer: Basil Kirke.

3.0: G.P.O. Chimes. Studio music.  
3.30: St. John's Church of England, Balmain: Organ Recital arranged by Mr. H. E. Sheppard—  
(a) "Festive March" (Smart).  
(b) "Melody in F" (Rubinstein).  
(c) Contralto solo: "In the Cathedral" (Baptiste), Miss Annie Payne.  
(d) "Toccata and Fugue in D Minor" (Bach).  
(e) "Rondino" (Wolstenholme).  
4.0: G.P.O. Chimes. From the Studio: Musical Items.  
4.10: From St. John's Church of England, Balmain: Organ Recital arranged by Mr. H. E. Sheppard—

(a) "Idylle" (Sellars).  
(b) "Finlandia" (Sibelius).  
(c) Contralto solo, "I will Sing of Thy Great Mercies" (St. Paul), Miss Annie Payne.  
(d) "Traumerel" (Schumann).  
(e) "Finale No. 6" (Faulkes).  
4.40: From the Studio: Studio music.  
5.0: G.P.O. Chimes. Close down.

**EVENING SESSION.**

Announcer: G. Vern Barnett.  
Accompanist: G. Vern Barnett.

6.0: G.P.O. Chimes.  
6.1: Birthday calls.  
6.5: A programme supplied by the Members of the Cheer-Up Society.  
7.15: From Chalmers Street Presbyterian Church: The Evening Service, conducted by Rev. D. F. Brandt.  
8.30: From the Studio: A programme arranged by the Empire Trio.  
9.58: To-morrow's programme.  
10.0: G.P.O. Chimes. National Anthem. Close.

**2GB**

10.15: Organ music from St. Alban's Church, Regent St., Sydney. 10.30: Morning service, from St. Alban's Church. 12 noon: Close down. 3.0: Musical session. 5.30: Children's session, by Uncle George. 7.0: Lecture from Adyar Hall. 8.0: Music from Studio 8.15: Concert, arranged by courtesy of Winkworth and Sons. Piano solo by the Uebel Lechleiter Piano. 8.23: Miss Ethel Muller, contralto. 8.30: Mr. Gregory Valentine, violinist. 8.37: Mr. Len Howell, tenor. 8.45: Miss Elsie Brown, soprano. 8.52: Uebel-Lechleiter Piano. 9.0 Miss Ethel Muller, contralto. 9.7: Mr. Gregory Valentine, violinist. 9.15: Mr. Len Howell, tenor. 9.22: Uebel-Lechleiter Piano. 9.28: Miss Elsie Brown, soprano. 9.35: Close down.

**2UW**

10.30 a.m.: Music and request numbers. 1.0: Close down. 5.30: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Musical programme. 10.30: Close down.



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# Interstate Programmes, Sun., May 26

## 3LO

### MORNING SESSION.

10.30: Bells from St. Paul's Cathedral, Melbourne. 10.45: Express train information; British official wireless news from Rugby; news from yesterday's papers. 11.0: Morning service from Scots Church, Collins Street, Melbourne. 12.15: Close down.

### AFTERNOON SESSION.

2.0: Sonora Recital of the world's most famous records. 3.0: Pleasant Sunday Afternoon, Central Mission, Wesley Church, Lonsdale Street, Melbourne. Chairman: Rev. J. H. Cain. Orchestra. Solo: Mr. J. Alexander Brown. Notices, Offering, Orchestra. Address: Sister Ida (English Mission Sister), National Anthem, Benediction, Orchestra. 4.30: Close down.

### CHILDREN'S HOUR.

5.45: Shipping information. 5.47: Answers to letters and birthday greetings by "Billy Bunny" 6.25: "Brother Bill's" talk. 6.45: Adult birthday greetings. 6.47: Bells from St. Paul's Cathedral.

### EVENING SESSION.

7.0: Evening Service from Wesley Church, conducted by Drs. F. W. Boreham and S. J. Hoban. Doxology; Invocation; Hymn, "At Even Ere the Sun Was Set"; Prayer; Anthem; Scripture Reading; Intimations and Offering; Anthem; ymn, "Nearer, Still Nearer, Closer to Thy Heart"; Sermon, Rev. F. W. Boreham, D.D.; Hymn, "O, Christ, in Thee My Soul has Found"; Benediction; Sevenfold Amen.

### NIGHT SESSION.

8.30: The Strad Trio (Cecil Parkes violin, Myra Montague piano, Frank Johnstone cello)—"Trio, Op. 11, in B Flat" (Beethoven). Allegro Vivace. Adagio.

Alexretto and Variations. 8.49:roid Kyng, basso-cantante—A song cycle of five mystical songs, by Vaughan Williams;

"Easter."  
"I Got Me Flowers."  
"Love Bada Me Welcome."  
"The Call."  
"Antiphon."

9.4: Cecil Parkes, violin—  
"Romance" (Beethoven).  
"Gavotte" (Martini).  
"Caprice No. 24" (Paganini).

9.17: Wesley Church Choir (conductor, Wm. G. Jam).

(1) "Gentle Night, oh Descend" (Spohr).  
(2) "Inflammatus," from "Stabat Mater" (Rossini). Soloist, Mdle. Safo Arnov.

(3) "But the Lord" (Mendelssohn).  
(4) "Hallelujah Chorus" (Beethoven).

9.37: The Strad Trio—  
"Andante" (Beethoven).  
"Tambourin" (Rameau-Parkes).  
"Scherzo" (Reissiger).

"Rondo" (Hummer).  
9.50: "Argus" news service; announcements.

## 3AR

### MORNING SESSION.

Announcer: D. Woolley.

10.45: Morning service from St. Paul's Cathedral, Melbourne. 12.15: British official wireless news; announcements 12.30: Close down.

### AFTERNOON SESSION.

3.0: Stanley Wallace on the Wurlitzer organ. Transmission from the Regent Theatre, Melbourne. 4.0: Close down.

### EVENING SESSION.

5.0: "Erer Rabbit," 5.30: Mr. Alfred Kelly will speak on "Australia's part in the Boer War."

### NIGHT SESSION.

7.0: A Bravura of beautiful ballads and orchestral arrangements.

8.0: Malvern Tramways Band—  
Overture, "Pique Dame" (Suppe).  
Selection, "Bacchanale" (Rimmler).

8.15: Tom Semple, tenor—  
"Where'er You Walk" (Handel).  
"Sometimes in Summer" (Bennett).

8.22: Malvern Tramways Band—  
"Tone Poem, "The Loreley" (Nesvadba).  
8.32: The Sundowners' Quartette—  
"Swing Along" (Cook).

"Tae Gwine Back to Dixie" (Anon).  
8.40: Alfred Ackland, violin—  
"La Preclense" (Bougres-Kreisler).  
"Gavotte in E Major" (Bach-Kreisler).  
"Adagio" (Mozart).

8.58: The Sundowners' Quartette—  
"The Land of the Sky Blue Water" (Cadman).  
"Pale Moon" (Logan).

9.2: Lindsay Biggins, piano recital—  
"Fantasie in D Minor."  
"Sonata in A Major" (Mozart).  
"Refrain Berceuse" (Palmgren).

"Irish Tune" (Granger).  
"Prelude—Claire de Lune" (Debussy).

9.30: The Sundowners' Quartette—  
"Robin Adair" (Anon).  
"Silver Threads Among the Gold" (Anon).  
Robert Allen, alto solo—  
"Lifeless and Grey the Sea Lies" (Lehr).

9.40: Malvern Tramways Band—  
Selection, "Romeo and Juliet."  
9.50: News service; announcements. God Save the King.

## 4QG

### MORNING SESSION.

11.0: St. Andrew's Church of England. The complete morning service will be relayed from St. Andrew's Church of England, South Brisbane. 12.15: Close down.

### AFTERNOON SESSION.

3.15: The band concert will be relayed from the Botanic Gardens. 4.30: Close down.

### EARLY EVENING SESSION.

6.30: Greetings to little listeners and replies to letters.

### NIGHT SESSION.

7.0: Children's session.  
7.30: The complete evening service will be relayed from St. Andrew's Church of England, South Brisbane.

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

9.30: Close down.

## 5CL

### MORNING SESSION.

10.45: Carillon of bells from Adelaide Town Hall. 11.0: Divine Service from Flinders Street Baptist Church. 12.10: British official wireless news. 12.15: Close down.

### AFTERNOON SESSION.

3.0: Chimes. 3.1: A pleasant Sunday afternoon service from Glenelg Congregational Church. 4.15: Close down.

### EVENING SESSION.

6.0: Chimes. 6.1: Birthday greetings, correspondence, songs and stories, by "Miss Wireless." 6.30: "The Bird Lady" and "The Sunshine Songsters" will entertain the children. 7.0: Chimes.

7.1: A Religious Service from St. Peters Cathedral. Preacher: The Lord Bishop of Adelaide.

### NIGHT SESSION.

8.20: Unley Orchestra, conducted by Norman Sellick—  
"Blue Danube Waltz" (Strauss).

8.29: Phyllis Everett, contralto—  
"Sink, Red Sun" (Del Riego).  
"Wayfarer's Night Song" (Eusthopho Martin).

8.36: A Pianoforte Recital by Irene Kemp, L.A.B.—  
Chopin Recital in A Flat Major,  
Ballade,  
Mazurka,  
Etude,  
Impromptu,  
Waltz.

8.56: Fred Williamson, tenor—  
"She is Far from the Land" (Lambert).  
"Lord of My Life."

9.3: Unley Orchestra—  
"Praeludium" (Jarnfeldt).  
"Serenade, Rocoer" (Helmut).

9.15: Phyllis Everett, contralto—  
"The Glory of the Sea" (Wilfred Sanderson).  
"Thoughts Have Wings" (Liza Lehmann).

9.22: Unley Orchestra—  
"Valse Triste" (Sibelius).

9.28: Fred Williamson, tenor—  
"Duna" (McGill).  
"Give Thanks and Sing" (Harris).

9.34: Unley Orchestra—  
"Turkish Patrol" (Michaells).

9.40: Mr. P. H. Nicholls will talk on "Queen Mary."  
9.52: General news service.  
10.0: Close down.

## 6WF

10.25: Tune in. 10.30: Special half-hour for the enthusiastic listener-in. 11.0: Morning service, relayed from St. George's Cathedral, Perth. 12.15: Close down. 3.30: Tune in. 3.35: Musical programme from the studio, including Vocal and instrumental artists. Mr. Leslie Judson, pianist. 4.30: Close down. 7.0: Tune in. 7.5: Temperance talk by Mr. E. Douglas Dent. 7.15: Bedtime stories. 7.30: Evening service, relayed from the Baptist Church, Perth. 8.45: Band concert from the studio by the Perth City Band, conducted by Mr. Les M. Price. 10.5 Close down.

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## 7ZL

### MORNING SESSION.

11.0: Transmission from St. David's Cathedral, Murray Street, Hobart. 12.30: Close down.

### AFTERNOON SESSION.

3.30: A concert programme arranged by The P.S.A. Association. 4.30: Close down.

### EARLY EVENING SESSION

6.15: Chorus singing (Conductor, Trevor M. Morris, of the Children's Special Service Mission). 8.45: Bertha Southey Brammall, will read a poem to the wee folk:—"Come and Lie in My Arms."

### EVENING SESSION.

7.0: Transmission from Melville Street Methodist Church, Hobart. 8.25: From the studio: A programme of sacred and classical music, arranged by J. M. Counsel. 9.45: News session. 9.50: Close down.

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# 3d



# Local Programmes, Monday, May 27

## 2FC

### EARLY MORNING SESSION.

Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfall; river reports; temperatures; astronomical memoranda. 7.7: "Sydney Morning Herald" summary. 7.12: Shipping intelligence; mail services. 7.15: Studio music. 7.25: Investment market; mining sharemarkets; metal quotations; wool sales; breadstuffs markets; Inter-State markets; produce markets. 7.40: Studio music. 8.0: "Big Ben" Close.

### MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.3: Pianoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.30: The 2FC Racing Commissioner; late sporting news. 10.45: A talk on "Home Cooking and Recipes," by Miss Ruth Furst. 11.0: "Big Ben" A.P.A. and Reuter's cable services. 11.5: Close.

### MIDDAY SESSION.

Announcer: A. S. Cochrane.

12.0: "Big Ben" and announcements. 12.1: Stock Exchange, first call. 12.3: Official weather forecast; rainfall. 12.5: Summary of news "Sydney Morning Herald." 12.10: Rugby wireless news. 12.13: A reading. 12.30: Studio music. 1.0: "Big Ben" Weather intelligence. "Evening News" midday news service. 1.15: From the Aeolian Hall, Pitt Street, lunch-hour chamber music, recital, Sverjensky instrumental Ensemble. 1.40: From the studio, Producers' Distributing Society's report. 1.43: Stock Exchange, second call. 1.47: Popular studio music. 2.0: "Big Ben" Close.

### AFTERNOON SESSION.

Announcer: Laurence Halbert.  
Accompanist: Ewart Chapple.

2.30: Programme announcements. 2.32: The Book Lovers' Corner. 3.0: "Big Ben." Popular music. 3.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 3.40: From the studio: Dorothy Charleston, contralto, (a) "The Carpet" (Sanderson). (b) "Sometimes in Summer" (Bennett). 3.46: A reading. 4.10: Roger Jones, baritone. 4.20: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.30: From the studio: Dorothy Charleston, contralto, (a) "Castilian Lament" (Del Riego). (b) "Memory" (Park). 4.37: Roger Jones, baritone. 4.45: Stock Exchange, third call. 4.47: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 5.0: "Big Ben" Close.

### EARLY EVENING SESSION.

Announcer: A. S. Cochrane.

5.40: The chimes of 2FC. 5.45: The Children's Session, conducted by the "Hello Man." Letters and stories, music and entertainment. 6.30: Dalgety's market reports (wool, wheat, and stock). 6.40: Fruit and vegetable markets. 6.43: Stock Exchange information. 6.48: Weather and shipping news. 6.50: Rugby wireless news. 6.55: Late sporting news. 7.0: "Big Ben." Late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace Keats. (a) "Scaerzo" (Gade). (b) "Water Lilies" (Brian Hope). (c) "To the Spring" (Grieg). (d) "Three African Dances" (Phillips). (e) "Dear Heart of Mine" (Anderson). (f) "Val de Mignonne" (Drigo). (g) "Waiting" (Ancliffe).

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### EVENING SESSION.

Announcer: Laurence Halbert.  
Accompanist: Ewart Chapple.

7.45: Programme announcements. 7.48: A record recital. 8.0: "Big Ben." The studio production of the light opera, "Paul Jones," under the direction of Leo Packer. Principals, W. E. Lewis, Dorie Ward, Ada Ruoenstein. Between the first and second half of the production, approximately at 9.0, true tales of a Journalist, related by C. C. Faulkner. 10.28: Late weather and to-morrow's programme. 10.30: National Anthem. Close.

## 2BL

### MORNING SESSION.

Announcer: A. C. C. Stevens.

8.0: G.P.O. Chimes. Weather report—State and Metropolitan. 8.3: Studio music. 8.30: G.P.O. Chimes. News and information service from the "Daily Telegraph Pictorial." 9.0: G.P.O. Chimes. Studio music. 9.30: G.P.O. Chimes. Half an hour with silent friends. 10.0: G.P.O. Chimes. Close.

### MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. Chimes. 2BL Women's Sports Association Session, conducted by Miss Gwen Varty. 11.30: Advertising hints. 11.40: Women's Session, conducted by Mrs. Cranfield. Nurse May will speak on "Infant Welfare." 12.0: G.P.O. Chimes. Special ocean forecast and weather report. 12.3: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sun" midday news service. 1.0: Studio music. 1.30: Talk to children and special entertainment for children in hospital, by Uncle Steve. 2.0: G.P.O. Chimes. Close. Note: Race results will be broadcast by arrangement with "Sun" Newspapers.

### AFTERNOON SESSION.

Announcer: A. C. C. Stevens.  
Accompanist: Kathleen Roe.

3.45: G.P.O. Chimes. The Melody Trio. 4.0: G.P.O. Chimes. Harry Jackson, baritone—(a) "At Dawning" (Wakefield). (b) "Why Shouldn't I?" (Russell). 4.7: Captain Fred Aarons will speak. 4.22: Christopher Faulkner, cornet solos—(a) Polka, "Shylock" (Lear). (b) "Melody in F" (Rubinstein). 4.29: The Melody Trio. 4.43: Harry Jackson, baritone—(a) "The Curtain Falls" (d'Hardelet). (b) "Sonny Boy" (Johnson). 4.50: Christopher Faulkner, cornet solos—(a) Polka, "Soul of the Sun" (Smith). (b) Fantasia, "Sweet Genevieve" (Pecorini). 4.57: The Melody Trio. 5.7: Pianoforte reproduction. 5.34: Racing resume. 5.37: Features of the evening programme.

### EARLY EVENING SESSION

Announcer: Basil Kirke.

5.40: Children's Session, conducted by Uncle Bas. Music and entertainment; letters and stories. 6.30: "Sun" news and late sporting. 6.40: 2BL Dinner Quartette—(a) "Valse" (Levitski). (b) "Woodland Sketches" (MacDowell). (c) "Some Distant Day" (Monk). (d) "Sextette" (Lucia) (Verdi). (e) "Zazra" (Bowen). (f) "Little Lady of the Moon" (Coates). 7.7: Australian Mercantile, Land, and Finance Co.'s report. Weather report and forecast, by courtesy of Government Meteorologist. Producers' Distributing Society's fruit and vegetable market report. Grain and fodder report ("Sun"). Dairy produce report ("Sun"). Weekly traffic bulletin. 7.25: Mr. Pim and Miss Pam in advertising talks, handy hints, and nonsense. 7.53: An ad. special. 7.55: Programme and other announcements.

### EVENING SESSION.

Announcer: Basil Kirke.  
Accompanist: G. Vern Barnett.

8.0: G.P.O. Chimes. From the Crystal Palace Theatre: Crystal Palace Theatre Orchestra, conducted by Stan Cross. 8.20: From the Studio: Frank Ryan, comedian. 8.30: Graham and Manning, entertainers—

(a) Duet, "It's a Funny Old World" (Gallati).

(b) "A Bungalow and You" (O'Hagan).

(c) "Come With Us" (Gallati), Duet.

8.40: Eric Perry, banjolist—

(a) "Honolulu March" (Traditional).

(b) "Hawaiian Sunset" (Vandersloot).

(c) "The Rosary" (Nevin).

8.47: Zena and James Kendall, in Sketches.

8.59: Weather report.

9.0: G.P.O. Chimes.

May Sharpe, Songs at the Piano—

(a) "Dirty Hands, Dirty Face" (Johnson and Monaco).

(b) "Sonny Boy" (Henderson).

Novelty Piano Solo, with vocal chorus.

9.7: Eric Perry, banjolist—

(a) "Stars and Stripes" (Souza).

(b) "Kentucky Barbecue" (Smith).

(c) "Maori Melodies" (Elkins).

9.14: Zena and James Kendall, in Sketches.

9.24: Graham and Manning, entertainers—

(a) "Where I Belong" (Hylton).

Harry Graham.

(b) "The Dream of John Citizen" (Gordon), Musical Sketch.

9.34: Frank Ryan, comedian.

9.44: From the Crystal Palace Theatre: Crystal Palace Theatre Orchestra, conducted by Stan Cross.

10.0: From the Studio. G.P.O. Chimes.

G. J. Hill will speak on "The Idiosyncrasies of the Motor Car."

10.15: Dorothy Ryder, popular vocalist.

10.22: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.

10.32: From the Studio: Late weather report.

Dorothy Ryder, popular vocalist.

10.39: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.

10.57: To-morrow's programme.

10.59: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.

11.30: National Anthem. Close.

## 2GB

10.0: Music. 10.10: Happiness talk by A. R. Bennett. 10.20: Music. 10.30: Women's session, by Miss Helen J. Beegling. 11.30: Music. 11.45: Close down. 1.30: Adyar Camp talk by Prof. E. Wood. 2.0: Music. 2.5: Women's Radio service, by Mrs. Dorothy Jordan. 2.50: Music. 3.30: Close down. 5.30: Children's session, by Uncle George. 7.0: Music. 8.30: Short talk by Mrs. Jordan. 8.0: Madama Iris d'Orleans, contralto. 8.7: Miss Ada Brook, pianiste. 8.15: Mr. William Green, tenor. 8.22: Instrumental music. 8.30: Humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 8.35: Miss Gladys Aubin, soprano. 8.45: Address. 9.0: Weather report. 9.3: Madama Iris d'Orleans, contralto. 9.13: Instrumental music. 9.20: Humorous interlude. 9.25: Mr. William Green, tenor. 9.35: Mr. Heath Burdock, Shakespeare recital. 9.45: Instrumental music. 9.55: Miss Gladys Aubin, soprano. 10.5: Dance music. 10.30: Close down.

## 2UW

### MIDDAY SESSION.

12.30: Request numbers. 1.0: G.P.O. clock and chimes; music. 1.15: Talk on Homercraft, by "Pandora." 1.40: Music and request numbers. 2.30: Close down. 4.30: Musical programme.

### EVENING SESSION.

5.30: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: G.P.O. clock and chimes; music and request numbers. 7.45: Wireless talk—Hints and Advice, by Mr. E. Homfray. 8.0: Music. 9.0: G.P.O. clock and chimes. Comments on foreign affairs by Mr. J. M. Prentice. 9.10: Music and request numbers. 10.30: Close down.

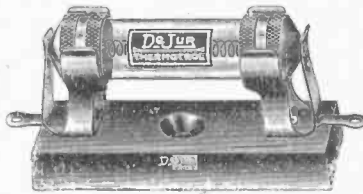
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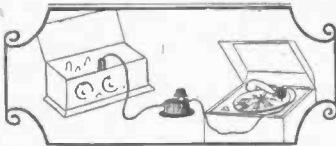


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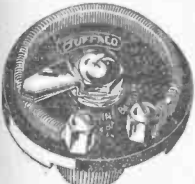


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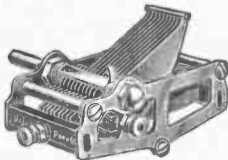


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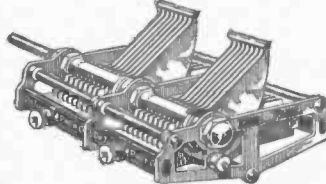
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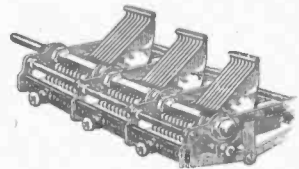
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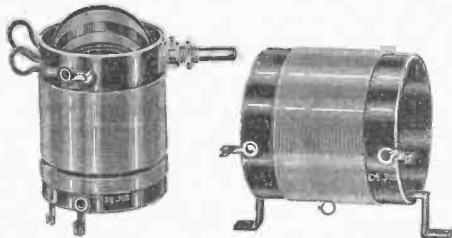
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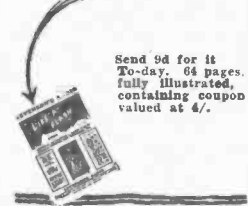
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Interstate Programmes, Monday, May 27

3LO

MORNING SESSION.

11.0: To-day's Radio Recipe: Oyster Soup. 11.5: Miss Olga Parker will speak on Stories to Tell the Children—Some Humorous Stories. 11.25: Miss L. V. Crawford will speak on "Practical Psychology". 11.45: Under the auspices of the Boy Scouts Association: E. V. Neill will speak on "Scouting". 12.0: Melbourne Observatory time signal. 12.1: British official wireless news from Rugby; Reuters's and the Australian Press Association cables; "Argus" news service. 12.15: Newmarket stock sales; entries for the market for Tuesday, Wednesday, and Thursday, by the Associated Stock and Stationery, Bourke Street, Melbourne. 12.20: Community Singing, transmitted from the King's Theatre, Russell Street, Melbourne. Conductor: G. J. Mackay. 12.40: Stock Exchange Information. 12.43: Community Singing resumed. 1.45: Meteorological information; weather forecast for Victoria, New South Wales, South Australia, and Tasmania; ocean forecasts; river reports; rainfall. 2.0: Close down.

AFTERNOON SESSION.

2.15: The Strad Trio (Cecil Parkes violin, Myra Montague piano, and Frank Johnstone 'cello): "Trio in G Major" (Haydn). Andante. Poco Adagio Cantabile. Gipsy Rondo. 2.28: Thos. George, bass-baritone: "Shepherd's Lament My Goodness" (Gounod). "The Wanderer" (Schubert). 2.35: Cecil Parkes violin, and Myra Montague piano: "Sonata, Op. 12, No. 1 in D Major" (Beechoven). Allegro Theme and Variations. 2.51: Frank Johnstone 'cello: "Meditation" (Widor). 2.55: The Strad Trio: "Chant sans Paroles" (Tchaikowsky). "Menuett in E Flat" (Bethoven). "Extract from Brandenburg Concerto" (Bach). 3.5: Light classical. The Station Orchestra: "Symphony No. 2, in A Minor" (Saint-Saens). 3.20: Dawn Ashton, Coloratura soprano, with Lazzio Schwartz, Hungarian violinist composer—Forty minutes of Oriental and Bohemian folk songs and music. 4.0: The Station Orchestra: "Jervette", "Lurline" (Wallace). "Canzonetta" (Schutt). "A La Hongroise" (Schwarz). "Poeme" (Lydial). 4.20: Thos. George, bass-baritone: "Muletier de Malaga" (Trotter). "Youth" (Allitsen). 4.27: The Station Orchestra: "Babes in Toyland" (Herbert). "Beret" (Dreux). "Musical Jigsaws" (Aston). 4.50: "Herald" news service; Stock Exchange information; acceptances and barrier positions for the Werribee races. 5.5: Close down.

CHILDREN'S HOUR.

5.0: Birthday greetings and answers to letters, by "Billy Bunny". 5.25: Musical interlude. 5.30: Captain Donald Maclean will tell another of his famous "Pirate" stories. Bravery! Adventure! Treasure! 5.50: "Billy Bunny" has a story for the little ones.

EVENING SESSION.

7.5: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.43: Birthday greetings. 7.45: Out of the Past. 7.46: Under the auspices of the Department of Agriculture, A. J. Gill, Senior Herd Tester, will speak on "Open-air Methods of Pig Feeding".

NIGHT SESSION.

8.0: Programme announcements. 8.1: W. A. M. Blackett, F.R.V.L.A., president of the Royal Victorian Institute of Architects, will lecture from the "Societies' Building on "The Designing of the Home". 8.1: The Station Orchestra—Overture, "Il Guarany" (Gomez). "Romance" (Korngardt). 8.15: Thos. B. George, bass-baritone—"The Curfew" (Gould). 8.22: The Station Orchestra—Selection of "Squire's Songs." 8.32: Dawn Ashton, Coloratura soprano, with Lazzio Schwartz, Hungarian Violinist composer—"A CAMEO OF MUSIC." 9.12: The Station Orchestra—Selection, "Daughter of the Regiment" (Donizetti). 9.22: Royal Victorian Liedertafel (conductor, J. Sutton Crow), transmission from Athanæum Theatre: Operatic Chorus—"Song of the Pirates" (Max Bruch). Unaccompanied part songs—(a) "Spin Spin" (Jungst). (b) (By request). (c) "Every Rustling Tree" (Kuhlau). Choral Ballad—"Lauder Kennings" (Grieg). Soloist, Thexton Morphet. Unaccompanied part songs—(a) "Berenade" (Plumpton). (b) "Peace Breathes Along the Shades" (Burnett). Part Song—"The Sword of Ferrara" (Eullard), by request. 9.52: "Argus" news service; British official wireless news; meteorological information; announcements. 10.2: The Jedal Trio (Alva Hattenbach violin, Edna Hattenbach 'cello, John Simons piano)—"Allegro Moderato" from D Minor Trio (Arensky). Edna Hattenbach, 'cello—"Wagenlied" (Louis Hattenbach). "Mazarka" (Louis Hattenbach). The Trio—(a) "Largo" (Handel). (b) "Menuetto" (Boccherini). (c) "Anitra's Dance" (Grieg). 10.32: Thos. B. George, bass-baritone—"The Company Sergeant-Major" (Sanderson). "My Jean" (Coutts).

10.41: Ern. Hall's Radio Revellers, with Hugh Huxham—"Wear a Hat With a Silver Lining" (Sherman). "One Alone" (Romberg). "My Angelina" (Waynes). "Just Give the Southland to Me" (Sissel). "The Desert Song" (Romberg). "My Mother's Eyes" (Baer). "A Room With a View" (Goward). "What a Girl!" "Dynamite" (Henderson). Selected. 11.30: God Save the King.

3AR

10.0 to 10.59: See Friday. MORNING MUSICAL SESSION. 11.0 to 12.30: See Friday.

AFTERNOON SESSION.

3.0: Opening by the Lord Mayor of Melbourne (Mr. H. D. Luxton) of the Exhibition of Model Home Equipment. 4.0: The Jedal Trio—Alva Hattenbach, violin; Edna Hattenbach, 'cello; and John Simons, piano. Trio, "Romance" (Glinka); "Serenade" (Fauch); "Valse" (Tchaikowsky). Piano: "From an Indian Legend" (Macdowell). "Will o' the Wisp" (Macdowell). "By a Meadow Brook" (Macdowell). Trio: "Melodie" (Faure). Selected. 4.30: Miss P. F. Yerbury will speak. 4.45: Close down.

EVENING SESSION.

6.0: Orchestral chefs d'oeuvre. 7.10: News service; announcements. 7.20: Science and symphony synchronised.

NIGHT SESSION.

8.0: E. C. H. Taylor will speak on "School Life and School Sport". 8.15: Under the auspices of the League of Nations Association, G. S. Bryan will speak on "Experiments in International Education". 8.30: Kathleen Lascelle—"The Art of Dancing". 8.40: The Radio Revellers—"Smiling" (Doody). "Promise Me" (Van Couth). "My Stormy Weather Pal" (Plantadosi). 8.48: Jack Stocks, the Woman Hater—"Feminine Follies". 8.52: The Radio Revellers—"What'll You Do?" (Cohn). "Pa's Old Hat" (Guy). "I Fell Head Over Heels in Love" (Thayer). 9.1: The Kauais, Hawaiian entertainers—"South Sea Idylls". 9.4: The Radio Revellers—"Sonny Boy" (Brown). "Sally of My Dreams" (Kernell). "You're a Real Sweetheart" (Friend). 9.13: Jack Stocks, the Woman Hater—"A Henpecked Hero". 9.16: The Radio Revellers—"My Angelina" (Waynes). "The Tile Tray" (Doody). "My Mother's Eyes" (Baer). 9.25: The Kauais, Hawaiian entertainers—"Au Clair de la Lune". 9.28: The Radio Revellers—"Where the Cot-Cot-Ootton Grows" (Klien). "Cinnamon Cake" (Bernard). "My Fleurette" (Kimbrock). 9.37: Jack Stocks, the Woman Hater—"Oh! 'Ow! I Hates 'Em". 9.40: The Radio Revellers—"Aston". "Shake That Thing" (Jackson). "Glad Rag Doll" (Ager). 9.48: The Kauais, Hawaiian Entertainers—Request item. 9.56: The Radio Revellers—"You are Wonderful" (Ash). "There Ought to Be a Law Against That" (Friend). 10.5: Announcements. 10.8: The Radio Revellers—"Oh, Ya, Ya, Ya" (Fry). "Stars are the Windows of Heaven" (Maille). "Only a Rose" (Friml). "That's the Bow" (Ager). "Song of the Vagabonds" (Friml). 10.20: News service; announcements. 10.30: God Save the King.

4QG

EARLY MORNING SESSION. 7.43 to 8.30: See Friday. MORNING SESSION. 11.0 to 12.0: See Friday.

MID-DAY SESSION.

1.0 to 2.0: See Friday. AFTERNOON SESSION. 3.0 to 4.30: See Friday.

EARLY EVENING SESSION.

6.0: Mail train running times; mail information; shipping news. 6.5: Records. 6.55: Commercial announcements. 7.0: Bedtime stories, conducted by "The Bandman". 7.0: News in brief. 7.5: Stock Exchange news. 7.6: Metal quotations. 7.7: Market reports. 7.25: Penwick's stock report. 7.30: Weather information; announcements. 7.45: Standard time signals. 7.45: Lecturette, "A Talk on Pigs," by Mr. E. J. Shelton (senior instructor in pig raising).

NIGHT SESSION.

8.8: The Anglo Male Quartette.

8.12: Billie Bailey (soubrette), in popular numbers. 8.20: Mrs. M. C. Williams (violiniste)—Solo, "Berenade" (Leconavallo), accompanied by the Studio Orchestra. 8.25: W. Crisp (tenor)—"Sea Rapture" (Coates). "Whio is Sylvia" (Quilter). 8.35: The Studio Orchestra—Rag, "Two Key Rag" (Hollander). 8.40: Dick Pike (bass). 8.45: "The Sandman", in some accorded parts. 8.50: The Anglo Male Quartette. 8.55: Jill Manners (soprano)—"Love Lily" (Thomson). "The Fairies' Ball" (Bell). 9.0: Metropolitan weather forecast. 9.8: Lillian Comley (contralto)—"Big Lady Moon" (O'Leirdge-Taylor). 9.12: The Studio Orchestra—Characteristic, "Two Guitars" (Horlick). 9.20: Lillian Comley (contralto)—"Dream Boat" (Noello). 9.25: The Anglo Male Quartette. 9.30: An impromptu programme of music by Brisbane Citizens' Band (conductor, Mr. A. Scott). 10.0: News; close down.

5CL

MORNING SESSION. 11.0 to 2.0: See Friday.

AFTERNOON SESSION.

3.0: Chimes. 3.1: Station Quartette. 3.10: General McNeil, soprano. 3.15: Lettice Fogg, violinist. 3.24: Reg Harris, tenor. 3.31: Song Quartette. 3.42: Madoline Knight, contralto. 3.48: William Davey, xylophonist. 3.54: Jack Burgess, his ukulele. 4.0: Station Quartette. 4.1: Station Quartette. 4.5: Violet Jackson, soprano. 4.12: Lettice Fogg, violinist. 4.18: Reg Harris, tenor. 4.21: Song Quartette. 4.28: Madoline Knight, contralto. 4.34: William Davey, xylophonist. 4.41: Jack Burgess with his ukulele. 4.48: Station Quartette. 5.0: Stock Exchange information. 5.0: Close down.

EVENING SESSION.

6.0: Chimes. 6.1: Birthday greetings; correspondence, songs, and stories by "Auntie Feggy" (Mr. An interlude of dinner music. 7.0: Chimes. 7.10: Stock Exchange information. 7.45: General news reports. 7.10: Under the auspices of the South Australian Agricultural Department: An officer of a department will speak. 7.30: The 5CL Train Boys Club: An entertainment by "The Trains" (Mr. F. J. Miller).

NIGHT SESSION.

8.0: Chimes. 8.1: Holden's Silver Band, conducted by M. O. Wald Summerton—"Song of Australia." Overture, "Caliph of Bagdad" (Bullied). March, "Gill Bridge" (Ord. Hum). 8.10: Ceilia Genoni M'Neil, soprano. 8.17: Tom O'Dea, comedian, in comicallia. 8.23: Stanley Hunkin, baritone—"The Jolly Old Bachelor" (Merlin Morgan). "Bells of the Sea" (Alfred Solman). 8.30: Holden's Silver Band—"Moon Madrigal" (Wilmet). Solo, "You're Eyes Have Told Me So" (Hugh Valse, "Monastery Belle" (Greenwood). 8.34: Madoline Knight, contralto. 8.40: One-act Comedy, entitled "Let's Bar" (produced by Jack Burgess). Characters: Florence..... Berli (Miss Roland). Intermezzo, "Bells of the Sea" (Merlin Morgan). 8.55: Holden's Silver Band—"Dance, 'Jazzlina" (Wood). 9.0: Chimes. 9.1: Meteorological information, including sea-phore tides. 9.2: Overseas grain report. 9.3: Violet Jackson, soprano. 9.10: Holden's Silver Band—Song number, "Mary Ann" (E. Davis). 9.13: Stanley Hunkin, baritone—"That's the Bow" (Ager). "All Through the Night" (Old Welsh). 9.20: Seth Smith, banjolist. 9.28: Holden's Silver Band—"Sailor Songs" (Rimmer). 9.34: Madoline Knight, contralto. 9.41: Tom O'Dea, comedian. 9.47: Holden's Silver Band—Intermezzo, "Bells along the Meadow" (Kodaly Valse, "Ecstasy" (Baynes). 9.55: Violet Jackson, soprano. 10.1: Seth Smith, banjolist. 10.7: Holden's Silver Band—Duet, "Home to Our Mountains" (Verdi). Quickstep, "Vashti" (Fillmore). 10.15: General news service; British official wireless news; meteorological information. 10.30: Modern dance records. 11.0: Close down.

6WF

12.30: Tune in. 12.35: Markets, news, etc. 12.40: General news service; British official wireless news; meteorological information. 1.3: Panoptoe hour, relayed from Messrs. Moore's, Ltd., Lyric House, Perth. 2.0: Close down. 3.30: Tune in. 3.35: Fernon tea-barbecue, relayed from the Carlton Cafe. Vocal items from

Studio. 4.30: Close down. 6.45: Tune in. 6.48: Bedtime stories by Uncle Duffy. 7.5: Light music by the Perth Piano Trio, comprising Mr. H. Shirley, piano; Mr. A. Lynch, violin; Mr. R. Breatley, cello. 7.30: Commercial and general information. 7.45: Talk by Lieut-Colonel le Souef, Director Zoological Gardens, South Perth. 8.0: Time signal. 8.1: First weather bulletin. 8.3: Concert by the Railways and Tramways Male Choir, from the studio. 8.20: Talk, "Mystic Java," by Mr. J. Cowie, of the Orient Touring Company. 8.50: Late news items by courtesy of "The Daily News" Newspaper Co., Ltd., station announcements; ships within range announcement; late weather bulletin. 9.5: Programme continued from the studio. 10.30: Close down. 104.5 METRE TRANSMISSION. Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

**7ZL**

**MIDDAY SESSION.**

11.30: to 1.30: See Friday.

**AFTERNOON SESSION.**

3.0: Chimes. 3.4: Weather information. 4.15: "Aunt Edna" will speak on "Fashionable Materials for the Winter." 4.30: Close down.

**EARLY EVENING SESSION.**

6.30: Mollie Hall will recite to the wee folk. 7.0: Answers to letters and birthday greetings, by "Uncle David." 7.15: News session.

**EVENING SESSION.**

7.30: Professor A. B. Taylor, will speak on "Literature and Morality." 7.45: Geo. Collis, Tasmania's champion wrestler, will speak on "Physical Culture." 8.0: Chimes. 8.15: A concert programme arranged by Madame Helen George. Madame Helen George, piano solo—"Dance of the Gnomes" (Grieg). Evan Williams, tenor—"A May Morning" (Denza), "Aie, Where Art Thou" (Ascher). Gweneth Davidson, soprano—"Vedral Carino" (Mozart). "Batti Batti" (Mozart). Tudor Davies, baritone—"Love Went a-Riding" (Bridce). "Thou Art Risen" (Taylor). Madame Helen George, piano solo—"Berceuse" (Chopin). Kirby Lunn, contralto—"The Pretty Creature" (arr. Wilson). Gweneth Davidson, soprano—"Ave Maria" (Gounod), "The First Violet" (Mendelsohn). 9.0: A Chorus story, by Barbara Storey. 9.15: Madame Helen George, piano solo—"La Piccola," Intermezzo in Octaves (Leschetitzky). Gweneth Davidson, soprano—"The Harvest of Sorrow" (Rachmaninoff). John McCormack, tenor—"Bye, Sweetheart, Good-bye" (Hatten). Gweneth Davidson, soprano—"To Daisies" (Quilter), "Love, the Jester" (Montague). Madame Helen George, piano solo—"Balade in A flat" (Chopin). 9.50: News session. 10.0: Close down.



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**More Pirate Stories**

CAPTAIN DONALD MacLEAN will give a further series of his talks on "Pirates" during the children's hour, in the week commencing May 27. It is two years ago since the last series was broadcast, and since that time it has been a case of listeners of all ages asking for "more."

**English Basso**

A VOCAL recital from the works of Vaughan Williams will be given from 8.0 on May 26 by Herold Kyng, the English basso-cantante, who recently arrived in Melbourne to take up an appointment on the University Conservatorium staff, for which he was selected by Professor Heinze on his recent visit to Europe. Mr. Kyng has studied under the best English and Continental masters, and has had much experience, both in the concert, broadcasting, and operatic world. He has appeared in Sir Nigel Playfair's famous production of "The Beggars' Opera" at the Lyric Theatre, London, and has had two seasons at Covent Garden, with "Turandot" and "Boris Godonov." Before leaving London he held a most successful recital at the Wigmore Hall, which called forth many favorable press notices, from the "difficult" London critics, one of whom described his voice as of "exceptional quality, well under control, and his diction as clear as a bell." He made his Australian debut in the name part of "Elijah" with the Melbourne Philharmonic Society, and created a very favorable impression.

# Local Programmes, Tuesday, May 28

## 2FC

### EARLY MORNING SESSION.

Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast, rainfall, river reports, temperature, astronomical memoranda. 7.7: "Sydney Morning Herald" summary. 7.10: Shipping intelligence; mail services. 7.15: Studio music. 7.25: Investment market, mining sharemarkets, metal quotations, wool sales, breadstuffs markets, inter-State markets, produce markets. 7.40: Studio music. 8.0: "Big Ben." Close.

### MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.2: Pianoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.30: Last minute sporting information by the 2FC Racing Commissioner. 10.40: Studio music. 10.50: Pianoforte reproduction. 11.0: "Big Ben." A.P.A. and Reuter's cable services. 11.5: Close down.

### MIDDAY SESSION.

Announcer: A. S. Cochrane.

Note: Race results will be given from Gosford as received. 12.0: "Big Ben" and announcements. 12.2: Stock Exchange, first call. 12.3: Official weather forecast, rainfall. 12.5: Summary of news. "Sydney Morning Herald." 12.10: Rugby Wireless news. 12.13: A reading. 12.30: The Popular Trio. 1.0: "Big Ben." Weather intelligence. 1.3: "Evening News" midday news service. Producers' Distributing Society's report. 1.20: The Popular Trio. 1.28: Stock Exchange, second call. 1.30: The Popular Trio. 2.0: "Big Ben." Close.

### AFTERNOON SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

2.30: Programme announcements. 2.32: The Book Lover's Corner. 3.0: "Big Ben." The Popular Trio. 3.15: Dismal Desmond, comedian. 3.22: The Popular Trio. 3.39: John Warren, tenor. 3.46: A reading. 4.11: The Popular Trio. 4.22: Dismal Desmond, comedian. 4.30: The Popular Trio. 4.45: Stock Exchange, third call. 4.47: John Warren, tenor. 4.54: The Popular Trio. 5.0: "Big Ben." Close.

### EARLY EVENING SESSION.

Announcer: A. S. Cochrane.

5.40: The chimes of 2FC. 5.45: The Children's Session, conducted by the "Hello Man," assisted by "Aunt Ely." Letters and stories. Music and entertainment. 6.30: Daigety's market reports (wool, wheat, and stock). 6.40: Fruit and vegetable markets. 6.43: Stock Exchange information. 6.48: Weather and shipping news. 6.50: Rugby Wireless news. 6.55: Late sporting news. 7.0: "Big Ben." Late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace Keats—(a) "Bouree and Musette" (Morgan), (b) "The Count of Luxembourg" (Lehar), (c) "Humoresque" (Tschaiakowsky), (d) "Barcarolle" (Offenbach), (e) "Entr'acts Mamselle Modiste" (Herbert).

### EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

7.45: Programme announcements. 7.48: A Record Recital. 8.0: "Big Ben." The Salvation Army Congress Band. 8.20: Ernest M'Kinlay, tenor—(a) "The Dream" (Manon) (Massenet), (b) "Now Sleeps the Crimson Petal" (Quilter), (c) "To Daisies" (Quilter). 8.30: Dagmar Roberts, pianist—(a) Hungarian Folk Songs (Korbay)—Old Folk Song, Czardas, Folk Song, Marishma, Bacchanale. 8.40: Will Carter, in bush sketches. 8.50: The Salvation Army Congress Band. 9.5: Weather report.

9.6: Ernest M'Kinlay, tenor—(a) "Ay Ay Ay" (Friere), (b) "Pale Moon" (Logan), (c) "The Light I Love Best" (Hopkins). 9.16: Dagmar Roberts, pianist—(a) "Russian Dance" (Tschaiakowsky), (b) "Cradle Song" (Grainger) By request, (c) "Scherzo from Sonata Op. 5" (Brahms). 9.26: Will Carter, in Bush Cameos. 9.36: Studio Dance Band, conducted by Cec. Morrison. 9.56: Late "Evening News" service. 10.1: Studio Dance Band, conducted by Cec. Morrison. 10.15: Announcements. 10.20: Studio Dance Band, conducted by Cec. Morrison. 10.28: Late weather report. 10.30: Studio Dance Band, conducted by Cec. Morrison. 10.57: To-morrow's programme. 10.59: Studio Dance Band, conducted by Cec. Morrison. 11.30: National Anthem. Close.

## 2BL

### MORNING SESSION.

Announcer: A. C. C. Stevens.

8.0: G.P.O. chimes. Weather report, State and metropolitan. 8.3: Studio music. 8.30: G.P.O. chimes. News and information service from the "Daily Telegraph Pictorial." 9.0: G.P.O. chimes. Studio music. 9.30: Half an hour with silent friends. 10.0: G.P.O. chimes. Close down.

### MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. chimes. 2BL Women's Sports Association session, conducted by Miss Gwen Varley. 11.30: Advertising hints. 11.40: Women's session, conducted by Mrs. Cranfield, talk on the "Work of the St. John Ambulance Association," by Sister Parry. 12.0: G.P.O. chimes. Special ocean forecast and weather report. 12.3: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sun" midday news service. 1.0: Studio music. 1.30: Talk to children and special entertainment for children in hospital, by Uncle Steve. 2.0: G.P.O. chimes. Close down. Note:—Race results from Gosford will be broadcast by arrangement with "Sun" Newspapers.

### AFTERNOON SESSION.

Announcer: A. C. C. Stevens.

Accompanist: Kathleen Roe.

3.45: G.P.O. chimes. Popular music. 3.50: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.0: G.P.O. chimes. Phyllis Atkinson, soprano—(a) "God Gave Each Rose a Garden" (Acre), (b) "Love, I Have Won You" (Ronald). 4.7: Edith Harrison, pianist—(a) "Intermezzo in E Flat" (Brahms), (b) "Rhapsody in G Minor" (Brahms). 4.17: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.30: From the studio, Phyllis Atkinson, soprano—(a) "Morning and You" (Aiyawari), (b) "This Passion is but an Ember" (Lohr), (c) "Where the Abana Flows" (Finden). 4.37: "Sun" news service. 4.40: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.50: From the studio, Edith Harrison, pianist—(a) "Nigger Dance" (Scott), (b) "Golliwog's Cakewalk" (Debussy), (c) "Arabesque in G Major" (Debussy). 5.0: G.P.O. chimes. "Sun" news service. 5.5: Pianoforte reproduction. 5.34: Producers' Distributing

Society's poultry report. 5.37: Features of the evening's programme.

### EARLY EVENING SESSION.

Announcer: Basil Kirke.

5.40: Children's session, conducted by Uncle Bas. Music and entertainment. Letters and stories. 6.0: Mr. Norman speaks to the "Bigger Boys." 6.45: "Sun" news and late sporting. 6.55: 2BL Dinner Quartette—(a) "Rose Marie Waltz" (Frinil), (b) "Serenade" (Herbert), (c) "Waltz in B Flat" (Goldard), (d) "Three English Dances" (Quilter), (e) "Slavonic Dance" (Dvorak), (f) "Rustic canella" (Cortopassi). 7.7: Australian Mercantile Land and Finance Co.'s report. weather report and forecast, by courtesy of Government Meteorologist; Producers' Distributing Society's fruit and vegetable market report; grain and fodder report ("Sun"); dairy produce report ("Sun"). 7.25: Mr. Pam and Miss Pam in advertising talks. 7.30: News hints, and nonsense. 7.53: An ad special. 7.55: Programme and other announcements.

### EVENING SESSION.

Announcer: Basil Kirke.

Accompanist: G. Vern Barnett.

8.0: G.P.O. chimes. From the King's Cross Theatre, King's Cross Theatre Orchestra, conducted by Max Saunders; Joseph Wayne at the Wurliizer organ.

8.20: From the studio, the Two Little Maids.

8.29: Elise Steele, violin recital—(a) "Sonata in D" (Locatelli, arr. Respigli).

(b) "Larghetto" (Handel, arr. Hubay), (c) "March" (Handel, arr. Flesch), (d) "Melody" (Gluck, arr. Kreisler), (e) "Preludium and Allegro" (Paganini, arr. Kreisler).

8.54: Frederick Todd, basso. 9.1: Weather report.

9.2: S. H. Bowden in a talk.

9.17: G. Vern Barnett, piano solos.

9.27: The Two Little Maids.

9.37: From the King's Cross Theatre, King's Cross Theatre Orchestra, conducted by Max Saunders; Joseph Wayne at the Wurliizer organ.

9.57: From the studio, Frederick Todd, basso.

10.4: G. Vern Barnett, piano solos.

10.14: Late "Sun" news.

A celebrity record.

10.28: Late weather and to-morrow's programme.

10.30: National Anthem. Close.

## 2GB

10.0: Music. 10.10: Happiness talk by A. E. Bennett. 10.20: Music. 10.30: Women's session, by Miss Helen J. Beegling. 11.0: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. Dorothy Jordan. 2.50: Music. 3.15: Close down. 5.30: Children's session, by Uncle George. 7.0: Music. 7.30: Talk from the Radio Service Department, by Mr. Stan Crittenden. 8.0: Miss Marjorie Almones, contralto. 8.7: Mr. Reginald Duncan, violinist. 8.15: Mr. J. Lou Walters, baritone. 8.22: Instrumental music. 8.30: Madame Betts Vincent, in an illustrated talk on the "Makings of Music." 8.45: Humorous interlude. 8.50: Miss Gladys Verona, soprano. 9.0: Weather report. 9.3: Address. 9.15: Miss Marjorie Almones, contralto. 9.25: Mr. Reginald Duncan, violinist. 9.35: Humorous interlude. 9.40: Mr. J. Lou Walters, baritone. 9.50: Instrumental music. 10.0: Miss Gladys Verona, soprano. 10.5: Dance music. 10.30: Close down.

## 2UW

### MIDDAY SESSION.

12.30: Request numbers. 1.0: G.P.O. clock and chimes. Music. 1.15: Talk on Homecraft, by "Pandora." 1.40: Music and request numbers. 2.30: Close down. 4.30: Musical programme.

### EVENING SESSION.

5.30: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: G.P.O. clock and chimes. Request items. 9.0: G.P.O. clock and chimes. Comments on foreign affairs, by Mr. J. M. Prentice. 9.10: Music and request numbers. 10.30: Close down.

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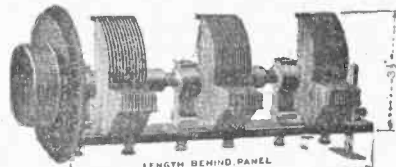


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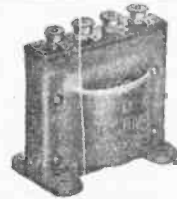


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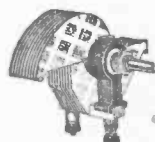
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# Interstate Programmes, Tuesday, May 28

## 3LO

### EARLY MORNING SESSION.

7.15 to 8.15: See Friday.

### MORNING SESSION.

11.0: To-day's Radio Recipe: Fillets of Beef and Oysters. 11.8: Miss E. Noble will speak on "Gas Cookery". 11.25: Mrs. Dorothy Silk will speak on "Homcrafts". 11.45: Miss Rose Brown will speak on "Recollections of Rolf Boldrewood."

### MIDDAY SESSION.

12.0: Melbourne Observatory time signal; express train information. 12.1: British official wireless news from Rugby; Reuters's and the Australian Press Association cables. "Argus" news service. 12.15: New-market stock sales; official report of the sheep market by the Associated Stock and Station Agents, Bourke Street, Melbourne. 12.20: The Station Orchestra. 12.30: Thos. B. George, bass-baritone. 12.37: Stock Exchange information; metal prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. 12.40: The Station Orchestra. 12.50: Tom Masters, tenor. 12.57: Bertha Jorgensen, violin. 1.7: Meteorological information; weather forecast for Victoria, New South Wales, South Australia, and Tasmania; ocean forecast; river reports; rainfall. 1.14: Thos. B. George, bass-baritone. 1.21: The Station Orchestra. 1.30: Tom Masters, tenor. 1.37: The Station Orchestra. 1.45: Close down.

### AFTERNOON SESSION.

2.15: The Radio Revelers: "High Tension" (Beer). "Bungalow, Bungalow and You" (Dempsy). "My Heart Stood Still" (Rodgers). "Give Your Baby Lots of Loving" (Burke). "When You Know Me" (Baden). 2.30: Jack Stocks. "The Woman Hater" (Melancholy Memories). "The Radio Revelers: "My Angelina" (Wayne). "I'm Sorry, Sally" (Kahn). "My Mother's Eyes" (Beer). "My Blackbirds Are Bluebirds Now" (Friend). "Cassabiana" (Evans). 2.32: Rita Hilton, entertainer: "I Don't Want to Get Married." "Dada." 3.0: The Radio Revelers: "Oh Isabella" (Schuster). "Sweet Forget-Me-Not" (Lorenz). "I Don't Know Why I Do It" (Vail). "Hum and Strum" (Meyers). "Maybe I'm Wrong" (Harris). 3.37: Jack Stocks. 3.44: The Radio Revelers: "Constantinople" (Carlton). "There's a Rainbow Round My Shoulder" (Johnson). "Oh, Is She Mad as Me" (Friend). "High Up On a Hilltop" (Baer). "When Love Comes Stealing" (Rapee). 4.0: Rita Hilton. 4.7: The Radio Revelers: "Roll Up the Garrets" (Nixon). "To-day, To-morrow, Forever" (Nichols). "Who Knows" (Dixon). "Lady of the Morning" (Burton). Selected. 4.22: "The Kavaia." 4.30: The Radio Revelers: "I'm Crazy Over You" (Lewis). "Old Man Sunshine" (Olson). "Whirl" (the Fan) (Baer). "My Dream Sweetheart" (Hall). "Guess Who's in Town" (Razaf). 4.35: Sonora recital. 4.50: News service; Stock Exchange information. 5.0: Close down.

### CHILDREN'S HOUR.

6.0: Answers to letters and birthday greetings by "Billy Bunny". 6.30: "Little Miss Kookaburra" will continue her serial story. "The Gulde Camp at Heron's Bay". 6.55: Captain Donald MacLean will tell another pirate story.

### EVENING SESSION.

7.15: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.45: Birthday greetings. 7.48: Out of the Past. 7.49: Under the auspices of the University of Melbourne Extension Board, O. B. Forbender, LL.M., lecturer in Economics and European History at the University, will speak on "The Shipping Enterprise of the Commonwealth Government." 8.0: A Maker of History.

### NIGHT SESSION.

8.0: Programme announcements. 8.1: Under the auspices of the Model Homes Exhibition, Mr. D. Little, hon. secretary, Institute of Engineers, Australia, will speak on "Science in the Home." 8.10: Frahan City Band—March, "Old Comrades" (Teike). Intermezzo, "Evening Bells" (Rimmer). 8.20: Gertrude Gray, mezzo-soprano—"Pale Moon" (Wagan). "Danny Boy" (Wheeler). 8.27: "The Kavaia," Hawaiian Instrumentalists—"Island Melodies." 8.34: Thos. B. George, bass-baritone—"I Will Not Grieve" (Schumann). "The Wonder Dream" (Lavater). 8.40: Frahan City Band—"Selection" (Verdi). 8.52: Transmission from Auburn Methodist Church. Auburn Methodist Church Choir. Organist and conductor: J. Sutton Crow. Organ: "Beloved" (Smart), J. Sutton Crow. Baritone: "Beloved" (Slater), Alan Eddy. Organ: "Traumerl" (Schuman), J. Sutton Crow. Soprano: "A Garden is a Lovesome Thing" (Del Riego), Stella Dredge. Organ: "Andante in a Flat" (Batiste), J. Sutton Crow. Contralto: (a) "The Stars Have Eyes" (Sanderson), (b) "Serenade" (Schubert), Sybil Shaw. Organ: "Impromptu in A Minor" (Schubert). Baritone: "Star Eyes" (Gardner), Alan Eddy. Soprano: "Hominy" (Del Riego), Stella Dredge. Contralto: "Freude" (Landon Ronald), Sybil Shaw. Organ: "March" from "Scipio" (Handel).

9.52: Frahan City Band—March, "Children of the Regiment" (Puckl). 10.2: News service; meteorological information; British official wireless news from Rugby; Eric Welch's selections for Werribee races. 10.12: Gertrude Gray, mezzo-soprano—"Ritournelle" (Ohaminade). "By the Waters of Minnetonka" (Lieurance), by request. 10.19: Frahan City Band—Selection, "Lilac Time" (Schubert). 10.31: Thomas B. George, bass-baritone—"The Floral Dance" (Moss). "Invictus" (Ruhm). (Both by request). 10.38: "The Kavaia," Hawaiian instrumentalists—"South Sea Serenades". 10.46: Ern. Hall's Radio Revelers, with Hugh Tukham—"Me and the Man in the Moon" (Monaco). "When You Know Me" (Donaldson). "Dooley Dooley Doo" (Sherwin). "Counting the Milestones" (Tisley). "My Starlight" (Rose). "Daybreak" (Evans). "Shivering" (Doody). "Promise Me" (Van Booth). 11.30: God Save the King.

## 3AR

10.0 to 10.50: See Friday.

### MORNING MUSICAL SESSION.

11.0 to 12.30: See Friday.

### AFTERNOON SESSION.

3.0: Ballads. 3.50: Dawn Assheton, coloratura soprano, and Laszlo Schwartz, Hungarian violinist. In selections from their unique repertoire of Operatic and Folk Songs from the Romance Countries of Europe. 4.30: Close down.

### EVENING SESSION.

8.0: Ballads. 8.30: The Jodal Trio—Alva Hattenbach, violin; Eina Hattenbach, cello; and John Simons, piano. "Callip of Bagdad" (Ecolidieu). Piano: "Sonata in D Minor—2nd movement" (Palmgren). "The Sea" (Palmgren). Trio: "Andante" from "E-flat Trio" (Schubert). Rondo" (Schubert). "Sarabande" (Bach). 7.0: Bains. 7.10: News service; announcements. 7.20: Ballads.

### NIGHT SESSION.

Announcer: John Stuart. Accompanist: Reg. Brown. 8.0: Under the auspices of the Royal Automobile Club of Victoria, O. J. P. Hodges will speak on "The Art of Driving," part 2. 8.15: A. G. Nelson—"Postage Stamps." 8.30: The Station Orchestra—"Children's Overture" (Quilter). 8.40: Herold Kyng, basso cantante—Selections from his repertoire. 8.47: The Station Orchestra—"Selections of Molloy's Songs." 8.57: Capt. David Lean—"Feats of the Mighty." 9.2: Dawn Assheton, coloratura soprano, and Laszlo Schwartz, Hungarian violinist, in folk music of the Magyars. 9.52: Herold Kyng, basso cantante—Request items. 10.0: The Station Orchestra—"Selection" (Chopin) (Strauss). Suite "St. Agne's Eve" (Coleridge-Taylor). 10.20: News service; announcements. Eric Welch's selections for Werribee Races on Wednesday. God Save the King.

## 4QG

EARLY MORNING SESSION.

7.43 to 8.0: See Friday.

### MORNING SESSION.

11.0 to 12.0: See Friday.

### MIDDAY SESSION.

1.0 to 2.0: See Friday.

### AFTERNOON SESSION.

3.0 to 4.30: See Friday.

### EARLY EVENING SESSION.

8.0: Mail train running times; mail information; shipping news. 6.5: An astronomy talk, "The Morning Star at its Greatest Brilliance," by Mr. A. K. Chapman. 6.15: Records. 6.25: Commercial announcements. 6.30: Bedtime stories, conducted by "Uncle Ben." 7.0: News in brief; Stock Exchange news, etc. 7.45: Lecture—"A Talk on Poultry," by Mr. Rumball (poultry inspector).

### NIGHT SESSION.

PART I. A programme of classical music by Mr. Eric Hayne's party. 8.0: Eric Haynes (violinist), Percy Brier (pianist)—"Andante and Allegro Moderato" from "Sonatina in G Minor" (Schubert). Mr. Eric Hayne (violinist). 8.7: Les Eddy (baritone)—"Departure" (Adolf Jensen). "Forest" (Chopin) (Jensen). 8.13: Percy Brier (pianist)—"First Movement from Sonata in A Minor" (Mozart). 8.18: Mary Knight Corkran (soprano)—"The Cuckoo Clock" (Grant Schaeffer). "La Serenata" (Toati). 8.16: Eric Hayne (violinist)—

"Adagio from Concerto in A Minor" (Vieux). 8.32: Les Eddy (baritone)—"How Many Thousand Years Ago" (Ruhm). "Invictus" (Ruhm). 8.33: Percy Brier (pianist)—"Goldweiss" (Debussy). "Squidilla" (Albeniz). 8.44: Marie Knight Corkran (soprano)—"Air on G String" (Bach). "La Capriccio" (Ries).

### PART II.

"HIS HOUSE IN ORDER" (Finero). A COMEDY IN THREE ACTS. 9.0: Comedy—"His House in Order." CAST: Major Maureward, Sir Daniel, Ridgeley, Fliner Jesson, M.P. Hilary Jesson (Ernest Barry), Dora Jesson (Elma Jorgensen); Nina (Dulcis Scott); Lark Ridgeley (Nell Douglas Graham); Geraldine Jesson (Jean Trundle). Acts 1, 2, and 3. Fliner Jesson's Country. 10.0: News; weather; bi-weekly news for distant listeners. Close down.

## 5CL

MORNING SESSION.

11.0 to 2.0: See Friday.

### AFTERNOON SESSION.

3.0: Chimes. 3.1: Station Quartette. 3.10: Rev. G. E. Hale, B.A. 3.25: Station Quartette. 3.36: A Civic Reception to Mr. J. J. Viner, C.B.E., General secretary of the Y.M.C.A., A.M.U.A., assisted by Miss Connie Foglia, violinist, will talk to you about "How Music is Made" 6.50: 5CL's sports service supplied by "Silvius," including Victoria Park acceptances. 7.0: Chimes. 7.1: Stock Exchange information. 7.6: General market reports. 7.10: Mrs. Laurie McLeod will speak on "The Art of Dancing." 7.25: Mr. R. G. Bald, Ph.D. (Lecturer in English at the Adelaide University) will speak on "Charles Lamb." 7.40: Dr. Herbert Basonow.

### EVENING SESSION.

6.0: Chimes. 6.1: Birthday greetings, correspondence, songs and stories by "The Watlie Lady," Mrs. Horace Perkins (Mrs. Isaac, A.M.U.A.), assisted by Miss Connie Foglia, violinist, will talk to you about "How Music is Made" 6.50: 5CL's sports service supplied by "Silvius," including Victoria Park acceptances. 7.0: Chimes. 7.1: Stock Exchange information. 7.6: General market reports. 7.10: Mrs. Laurie McLeod will speak on "The Art of Dancing." 7.25: Mr. R. G. Bald, Ph.D. (Lecturer in English at the Adelaide University) will speak on "Charles Lamb." 7.40: Dr. Herbert Basonow.

### NIGHT SESSION.

8.0: Chimes. 8.1: Red Hot Peppers Dance Band (conductor, Mr. Tom Doring)—"A Room With a View" (Owland). "Loneliness" (Gill in Town) (Mills). "Just Give the Southland to Me" (Revel). 8.10: Clelia Genoni McNeil, soprano—Selections from her repertoire. 8.17: Guido Giachino, cellist—Two cello solos. 8.30: Phil Peake, baritone—"Sea Fever" (Hodson). "Whoo Knocks" (Ball). 8.32: Red Hot Peppers Dance Band—"Mississippi Mud" (Barriss). "No One" (Glad Rag Doll) (Yellen). 8.42: Madoline Knight, contralto. 8.48: Tom Doring, banjoist. 8.54: Dino Felardi, tenor—"Where My Caravan Has Rested" (Lohr). "If You Alone" (Geehl). 9.0: G.P.O. chimes. 9.1: Meteorological information, including temperature tides. 9.2: Overseas grain report. 9.3: Red Hot Peppers Dance Band—"The Stars Have Eyes" (Sanderson). "It's a Precious Little Thing Called Love" (Davis). "Sweethearts on Parade." 9.12: Violet Jackson, soprano. 9.19: Guido Giachino, cellist. 9.28: Phil Peake, baritone—"Star of Eve" (Wagner). "The Stars Have Eyes" (Sanderson). 9.31: Red Hot Peppers Dance Band—"I Fell Head Over Heels in Love" (Thayer). "The Tally" (Taylor). "Roses of Yesteryear." 9.40: Mr. J. W. Bell (Deputy Commissioner, South Australian Branch, Repatriation Commission) will speak on "Soldiers' Children's Education Scheme." 9.57: T. E. Williams, saxophonist. 10.3: Dino Felardi, tenor—"Macanulla" (MacMurrough). "Because" (D'Harlow). 10.9: Red Hot Peppers Dance Band—"Sweet Sue Just You" (Harris). "Away From You" (Agner). 10.15: General news service; British official wireless news; meteorological information; announcements. 10.30: Red Hot Peppers Dance Band—"China" (Morel). "Silly of My Dreams" (Kernell). "The Wingin' Home" (Tobias). "Yesterday" (White). "Breeze" (Horley). "Sonny Boy" (Kasli). "Rose of Flinders" (Harris). "That My Mammy" (Harris). "Fifty Million Frenchmen" (Fischer). "When You Said Good-night" (Donaldson). 11.0: Close down.

**6WF**

12.30: Tune in. 12.35: Markets; news; etc. 1.0: Time signal. 1.1: Weather bulletin, supplied by the Meteorological Bureau of Western Australia. 1.3: Lunch-hour music, relayed from the Primrose Cafe de Luxe. Vocal items from the studio. 2.0: Close down. 3.30: Tune in. 3.35: Musical programme from the studio, pianoforte solos by Miss Audrey Dean, station pianist. Violin solos by Mr. Frank Romaine. 4.30: Close down. 6.45: Tune in. 6.48: Bedtime stories by Uncle Duffy. 7.5: Light music by the Perth Piano Trio. 7.30: Commercial and general information. 7.45: Talk by Dr. J. S. Battye. E. A. L. B. Pastors "How the names on the coast of Western Australia were derived." 8.0: Time signal. 8.1: First weather bulletin. 8.3: Musical programme from the studio. 8.50: Late news items, by courtesy of "The Daily News" Newspaper Co., Ltd.; station announcements; ships within range announcement; late weather bulletin. 9.5: Programme continued from the studio. 10.30: Close down.  
104.5 METRE TRANSMISSION  
Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

**7ZL**

**MIDDAY SESSION.**

11.30 to 1.30: See Friday.

**AFTERNOON SESSION.**

3.0: Chimes. 3.4: Weather information. 3.15: This afternoon we will entertain you with a programme of popular favorites—all tastes are considered—we have really attempted in the short space of one hour to give you quite a variety—fox trots, cornet solos, symphony orchestral items, vocal quartettes, and last, but not least, a remarkable recording of a choir of 850 voices. 4.15: An educational talk on "Wheat—India's 1929 Wheat Acreage." 4.30: Close down.

**EARLY EVENING SESSION.**

6.15: Selections. 6.30: Little Meg Viney. 7.0: Answers to letters, and birthday greetings, by "Uncle David" and "The Story Lady." 7.15: News service; Railway auction produce sales, held at Railway; Tasmanian district weather report.

**EVENING SESSION.**

7.30: Under the auspices of the Agricultural Department. E. R. Hudson, Superintendent of the Extension Service, will speak on "Increase Carrying Capacity of Pastures." 7.45: W. E. Fuller will speak on "Literary Lapses and Library Lists." 8.0: Chimes. 8.15: A programme of dance music by Reg Jones and his orchestra. Vocal refrain by Mollie Dalton. Reg Jones and his Orchestra—"I'm Sorry, Sally" (Kahn), "Lonesome on the Moonlight" (Baer), "Rose of Flanders" (O'Hagan). Seger Ellis, baritone—"Was It a Dream?" (Coslow). Reg Jones, and his Orchestra—"Rainbow Round My Shoulder" (Rose), "Out of the Dawn" (Donaghy), "Beloved" (Kahn). Duet, Geo. Rose, baritone, Gerald Adams, tenor—"Plenty of Sunshine" (De Sylva), "Send for Me" (Bibe). Reg Jones and his Orchestra—"One Alone" (Romberg), "Glad Rag Doll" (Ager), "I Fell Head Over Heels in Love" (Thayer), Belle Forbes, Cutter, soprano—"Mighty Lak a Rose" (Nevin), "Bonnie Sweet Bessie" (Gilbert). Reg Jones and his Orchestra—"Promise Me" (Cooth), "I Loved You Then" (Mendoza), "Me and the Man in the Moon" (Montaco). Seger Ellis, baritone—"Last Night I Dreamed You Kissed Me" (Lombardy). Reg Jones and his Orchestra—"Sally of My Dreams" (Kunneil), "Sonny Boy" (Jolson), "That's Her Now" (Ager), Emilio de Gogorza, baritone—"Dream Faces" (Hutchins). Reg Jones and his Orchestra—"Mother, I Still Love You" (Jolson), "Black birds are Blue Now," "Desert Song" (Romberg). De Reske Singers—"Adoration." 9.45: News session. 10.0: Chimes. 10.1: Close down.

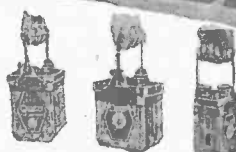
**Practical Psychology**

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# Local Programmes, Wednesday, May 29

## 2FC

### EARLY MORNING SESSION.

Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfall; river reports; temperatures; astronomical memoranda. 7.7: "Sydney Morning Herald" summary. 7.12: Shipping intelligence; mails service. 7.15: Studio music. 7.25: Investment market; mining sharemarkets; metal quotations; wool sales; breadstuffs markets; inter-State markets; produce markets. 7.40: Studio music. 8.0: "Big Ben." Close down.

### MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.3: Pianoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.45: A talk on "Home Cooking and Recipes," by Miss Ruth Furst. 11.0: "Big Ben." A.P.A. and Reuter's cable services. 11.5: Close down.

### MIDDAY SESSION.

Announcer: A. S. Cochrane.

Note: Race results from Rosebery. 12.0: "Big Ben" and announcements. 12.1: Stock Exchange, first call. 12.3: Official weather forecast; rainfall. 12.5: "Summary of news, "Sydney Morning Herald" 12.10: Rugby wireless news. 12.13: A reading. 12.30: Studio music. 1.0: "Big Ben." Weather intelligence. 1.3: "Evening News" midday news service; Producers' Distributing Society's report. 1.20: Studio music. 1.28: Stock Exchange, second call. 1.30: Studio music. 2.0: "Big Ben." Close.

### AFTERNOON SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

Note: If reception is satisfactory Station KGO will be relayed between 3.30 and 4 o'clock. 2.30: Programme announcements. 2.32: Records. 3.0: "Big Ben." From Pitt Street Congregational Church, an organ recital by the students of Lillian Frost. Mrs. R. Rowe, organist, Presbyterian Church, Wahroonga—(a) "The Angelus" (Rockwell), (b) "The Scotch Carol" (Gullmont). Miss Elsa Glasson—(a) "Prelude and Fugue in C Minor" (Bach), (b) "At Evening" (Kinder). Miss Eileen Ruse, songs—(a) "You in a Gondola" (Clarke), (b) "Three" (Florence Aylward). Mrs. U. H. Brett, organist, Methodist Church, Drummoine—(a) "Interlude" (Dubois), (b) "Grand Choeur" (Spence). Miss Joyce Dickson—(a) "At Twilight" (Frysiner), (b) "Nuptial Postlude" (Faulkes). Mrs. Rowe—(a) "Scherzo Symphonique" (Frysiner). Miss Elsa Glasson—"March in G" (Smart). 4.0: From the studio, a reading. 4.25: Popular music. 4.45: Stock Exchange, third call. 4.47: C. S. Yarwood will speak on A. B. Patterson. 5.0: "Big Ben." Close.

### EARLY EVENING SESSION.

Announcer: A. S. Cochrane.

5.40: The chimes of 2FC. 5.45: The children's session, conducted by the "Hello Man," assisted by Uncle Ted and "Sandy." Letters and stories. Music and entertainment. 6.30: Dalgety's market reports (wool, wheat, and stock). 6.40: Fruit and vegetable markets. 6.43: Stock Exchange information. 6.48: Weather and shipping news. 6.50: Rugby wireless news. 6.55: Late sporting news. 7.0: "Big Ben." Late news service. 7.10: The 2FC Dinner Quartet, conducted by Horace Keats—(a) "Serenade" (Drda), (b) "Scherzade" (Rimsky-Korsakoff), (c) "Life's Greatest Gift" (Anderson), (d) "Three Dances—Tom Jones" (German).

### EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

7.45: Programme announcements. 7.48: A record recital. 8.0: "Big Ben." From the Playbox Theatre, by arrangement with Duncan Macdougall, "Spread Eagle," a drama, and a fiction for patriots, in three acts, by George S. Brooks and Walter B. Lister.

Characters in order of appearance:

Grace, Lynda Kent.

Peter, Kenneth Barratt.  
Joe Cobb, J. M. C. Boul.

Bill Davis, M. C. Mott.  
Lois Henderson, Patricia Pantin.  
General De Castro, Duncan Macdougall.  
Martin Henderson, Ivan Mitchell.  
Charles Parkman, Colin Eaton.  
Mike Riordan, A. H. Robertson.  
Rosalie Kent, Mattie Doyle.  
Manuel, Kenneth Barratt.  
Father Estrella, J. M. C. Boul.  
Colonel Rojas, M. C. Mott.  
Theatre manager, Duncan Macdougall.  
Radio announcer, J. M. C. Boul.  
Brig.-Gen. Wagner, U.S.A., J. K. Emerton.  
Sentry, Jack Lloyd.  
Peons, Pierce Mack, J. Lloyd.  
Act I.—Martin Henderson's office, 120 Broadway, Morning.  
Act II.—Scene 1: Shack of the Spread Eagle Mining Company, Mercedes, Mexico. Six months later. Scene 2: A Broadway theatre, two weeks later. Scene 3: The broadcasting station WPIX, later the same night.  
Act III.—Martin Henderson's private railway car, on a siding at Matamoros, Mexico.

10.28: To-morrow's programme and late weather.

10.30: National Anthem. Close down.

## 2BL

### MORNING SESSION.

Announcer: A. C. C. Stevens.

8.0: G.P.O. Chimes. Weather report—State and Metropolitan. 8.3: Studio music. 8.30: G.P.O. Chimes. News and information service from the "Daily Telegraph Pictorial." 9.0: G.P.O. Chimes. Studio music. 9.30: G.P.O. Chimes. Half an hour with silent friends. 10.0: G.P.O. Chimes. Close.

### MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. Chimes. 2BL Women's Sports Association Session, conducted by Miss Gwen Varley. 11.30: Advertising hints. 11.40: Women's Session, conducted by Mrs. Cranfield. 12.0: G.P.O. Chimes. Special ocean forecast and weather report. 12.3: The Melody Trio, instrumentalists. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sun" midday news service. 1.0: The Melody Trio, instrumentalists.

1.30: Talk to children and special entertainment for children in hospital, by Uncle Steve. 2.0: G.P.O. Chimes. Close down. Note: Race results from Rosebery will be broadcast by arrangement with the "Sun" Newspapers.

### AFTERNOON SESSION.

Announcer: A. C. C. Stevens.

Accompanist: Kathleen Roe.

3.45: G.P.O. Chimes. The Melody Trio. 4.0: G.P.O. Chimes. Bunty Stuart, contralto. 4.7: Basil Kirke will speak on "Japan and Its People." 4.22: The Melody Trio. 4.32: Bunty Stuart, contralto. 4.39: The Melody Trio. 4.49: "Sun" news service. 4.56: The Melody Trio. 5.6: Pianoforte reproduction. 5.33: Racing resume. 5.37: Features of the evening programme.

### EARLY EVENING SESSION.

Announcer: Basil Kirke.

5.40: Children's Session, conducted by Uncle Bas. Music and entertainment; letters and stories. 6.30: "Sun" news and late sporting. 6.40: 2BL Dinner Quartette—(a) "This Was a Man" (Anderson), (b) "Gems of Melody" (Tschaiakovsky), (c) "Everywhere I Look" (Carew), (d) "Two Salon Pieces" (Ireland). 7.7: Australian Mercantile, Land, and Finance Co.'s report. Weather report and forecast, by courtesy of Government Meteorologist. Producers' Distributing Society's fruit and vegetable market report. Grain and fodder report ("Sun"). Dairy produce report ("Sun"). 7.35: Mr. Pim and Miss Pam in advertising talks, handly hints and nonsense. 7.53: An ad. special. 7.55: Programme and other announcements.

### EVENING SESSION.

Announcer: Basil Kirke.

Accompanist: G. Vern Barnett.

8.0: G.P.O. Chimes.  
From the Capitol Theatre: The Capitol Unit Entertainment.

8.27: From the Studio: The Blue and Gold Dandies.

8.37: From the Capitol Theatre: Fred Scholl at the Wurilizer Organ.

8.52: From the Studio: The Blue and Gold Dandies.

9.22: From the Capitol Theatre: The Stage Presentation.

9.34: From the Studio: Olga Le Gray, popular vocalist.

9.41: Claude Corbett will talk on "General Sporting."

9.55: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.

10.5: From the Studio: Olga Le Gray, popular vocalist.

10.12: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.

10.22: From the Studio: Late "Sun" news service.

10.28: Late weather report.

10.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.

10.57: From the Studio: Tomorrow's programme.

10.59: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.

11.30: National Anthem. Close.

## 2GB

10.0: Music. 10.10: Happiness talk by A. E. Bennett. 10.20: Music. 10.30: Women's session, conducted by Miss Helen J. Beegling. 11.30: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. Dorothy Jordan. 2.50: Music. 3.5: Labor-saving Demonstration from Nock and Kirby. 4.0: Close down. 5.30: Children's session, by Uncle George. 7.0: Music. 7.30: Short talk by Miss Beegling. 8.0: Miss Noel Palfreman, soprano. 8.7: Miss Jeanette Paterson, pianiste. 8.15: Mr. Clement Hosking, baritone. 8.22: Instrumental music. 9.0: Humorous interlude. 8.35: Miss Edith Allen Taylor, mezzo-soprano. 8.45: Address. 9.0: Weather report. 9.3: Instrumental music. 9.10: Miss Noel Palfreman, soprano. 9.20: Humorous interlude. 9.25: Mr. Clement Hosking, baritone. 9.35: Miss Jeanette Paterson, pianiste. 9.45: Miss Edith Allen Taylor, mezzo-soprano. 9.55: Instrumental music. 10.5: Dance music. 10.30: Close down.

## 2UW

### MIDDAY SESSION.

12.30: Request numbers. 1.0: G.P.O. clock and chimes; music. 1.15: Talk on Homecraft by "Pandora." 1.40: Music and request numbers. 2.30: Close down. 4.30: Musical programme.

### EVENING SESSION.

5.30: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: G.P.O. clock and chimes. Request items. 9.0: G.P.O. clock and chimes. Comments on foreign affairs, by Mr. J. M. Prentice. 9.10: Music and request numbers. 10.30: Close down.

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# Interstate Programmes, Wednesday, May 29

## 3LO

### EARLY MORNING SESSION.

7.15 to 8.10: See Friday.

### MORNING SESSION.

11.0: To-day's radio recipe—Pig pudding. 11.5: Miss I. D. Beavan will speak on "Home-made Confectionery." 11.20: Eric Welch will speak on to-day's races at Werribee. 11.30: Mrs. M. Callaway Mahood will speak on "The Art of Decoration." 11.45: Mrs. Clarence Weber will speak on "Physical Culture for Women."

### MIDDAY NEWS SESSION.

12.0: Melbourne Observatory time signal. 12.1: British official wireless news from Rugby; Reuters and the Australian Press Association cables; "Argus" news service. 12.15: Newmarket stock sales; cattle sales reports—bullocks and calves—by the Associated Stock and Station Agent, Bourke Street, Melbourne.

### MIDDAY MUSIC.

12.20: The Radio Revellers. 12.30: Jack Stocks, 12.37: Stock Exchange information; prices received by the Australian Mines and Metals Association from the London Stock Exchange this day. 12.43: The Radio Revellers. 12.50: "The Kauls." 1.0: The Radio Revellers. 1.6: Meteorological information; weather forecast for Victoria, New South Wales, South Australia, and Tasmania; ocean forecasts; river reports. 1.12: Jack Stocks. 1.19: "The Kauls." 1.24: The Radio Revellers. 1.30: Transmission of speeches from the Rotary Club luncheon at the Freemasons' Hall, Collins Street, Melbourne. 2.0: Close down.

### AFTERNOON SESSION.

2.15: The Station Orchestra—"Prelude" (Chopin). 2.18: Description by Eric Welch of Trial Handicap, 5 furlongs, Werribee races. 2.25: The Station Orchestra—"Gondoliers" (Moszkowski). "Syncope and Pieces" (Coster). 2.35: The General National baritone—"The Two Grenadiers" (Schumann), "To You" (Speaks). 2.42: Description of Jumpers Flat Race, 9 furlongs, Werribee races. 2.50: The Station Orchestra—"This Year of Grace" (Coward). 3.0: "The Kauls," Hawaiian instrumentalists—Songs of the Southern Seas. 3.7: The Station Orchestra—"Les Adieux" (Beethoven). 3.14: Description of Walter Handicap, 7 furlongs, Werribee races. 3.20: The Jedral Trio (Alva Hattenbach, violin; Edna Hattenbach, cello; John Simon, piano). "Finales" from D. Minor Trio (Mendelssohn); Edna Hattenbach, cello, "Melody" (Rubinstein); The Trio, (a) "Menuet" (Beethoven), (b) "Doll Dance" (Földini), (c) "Berenade" (Widor). 3.43: Description of Werribe Handicap, 1 1/2 miles, Werribee races. 3.50: The Station Orchestra—Overture "The Well of Love" (Balfe). 4.13: Description of Manor Plate, 6 furlongs, Werribee races. 4.20: The Station Orchestra—Selection, "Sweetheart" (Herbert). 4.45: "Herald" news service; Stock Exchange information. 4.55: Close down.

### CHILDREN'S HOUR.

6.0: Birthday greetings and answers to letters by "John the Piper's Son." 6.25: Musical interlude. 6.30: Under the auspices of the General Safety Council of Australia, H. J. Book will tell the children about "Roller Bears and the Safeway Tribe." 6.45: "John the Piper's Son," droll stories and interesting impersonations.

### EVENING SESSION.

7.5: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.43: Birthday greetings. 7.46: Out of the past. 7.48: Under the auspices of the Department of Agriculture, R. Crowe, Exports Superintendent, will speak on "Marketing Methods." 8.0: A maker of history.

### NIGHT SESSION.

8.1: Programme announcements. 8.2: Under the auspices of the Model Home Exhibition, Mr. A. C. Leth, honorary secretary, Institution of Engineers of Australia, will speak on Science in the Home." 8.12: Tasmanian letter to 3LO from the "Mercury" and "Illustrated Mail," Hobart. 8.15: The Station Orchestra—Overture, "Leonora" (Beethoven). 8.25: Dawn Assheton coloration soprano and Laszlo Schwartz Hungarian violinist—In their impersonations of folk and character songs of many nations. 8.5: Lindsay Biggins, piano—"Piano Recital," "Gigue in E Minor" (Rameau). "Fantasia in C Minor" (Mozart). "Impromptu in C Major" (Schubert). "Moment Musical" (Schubert). "Waltzes" (Schubert). 9.30: One-act Play—Produced by Winifred Moverley. "Flames of Fire," by Marjorie McLeod. The characters in the order of their speaking:—Steve Williams (a railwayman on strike), T. Bernard Lambie (his wife), Marjorie McLeod Lil (his daughter), Ivy Broadley Bill Jenkins (his friend), Harold Millane. The scene is laid in the kitchen of a working man's home. Mother is setting the cups and saucers out on a table. Kettle is beside the fire. Father is filling his pipe. 9.35: The Station Orchestra—Selections from light opera. 10.8: "Argus" news service; British official wireless news from Rugby; meteorological information. 10.18: The Station Orchestra—"Scherzo" (Mendelssohn). "Romance" (Tschakowsky). 10.28: Thos. B. George, bass-baritone—

"Sea Rover" (Ireland). "When a Maiden Takes Your Fancy" (Mozart). "The Rose-Romance" (Mozart). 10.38: The Station Orchestra—Selection, "Maid of the Mountains" (Morgan). 10.46: Ern. Hall's Radio Revellers, with Hugh Hutcham— "Where the Cot-Cot-Cotton Grows" (Kellen). "Cinnamon Cake" (Bernard). "My Fleurette" (Kimbrough). "Avalon Town" (Brown). "Shake That Thing" (Jackson). "Glad Rag Doll" (Ager). "You Are Wonderful" (Ash). "My Angelina" (Wayne). "My Mother's Eyes" (Baer). 11.30: God Save the King.

## 3AR

10.0 to 10.50: See Friday.

### MORNING MUSICAL SESSION.

11.0 to 12.30: See Friday.

### AFTERNOON SESSION.

3.0: Vocal and orchestral items: Dawn Assheton, coloration soprano, and Laszlo Schwartz, Hungarian violinist, in the operatic genres of many lands. 3.30: The Kauls. 4.0: The Kauls. 4.10: Ballads. 4.30: Close down.

### EVENING SESSION.

7.10: News service; announcements. 7.20: Melodic measures.

### NIGHT SESSION.

8.0: Alf. Firman will speak on "Books of Yesterday, To-day, and To-morrow." 8.15: Under the auspices of the Health Association of Victoria, Aaron Beattie will speak on "Walking for Health." 8.30: Did you know that. 8.31: The Jedral Trio (Alva Hattenbach, violin; Edna Hattenbach, cello; and John Simons, piano)—Trio, "Larghetto" (Mozart). "Manueto" (Mozart). "Waltz in A Major" (Brahms). "Rambourin" (Rameau-Kreisler). Trio: "Romance" (Campagnolo). "Andante" (Weber). "Bouree" (Handel). 8.45: Transmission from the Braille Hall for the Blind—Concert under the auspices of the Victorian Association of Braille writers.

Programme:— President Mr. F. B. Pettifer to introduce speakers. Mr. Justice Owen Dixon will speak on "Braille Writers' Free Lending Library."

French Consul, Mr. Rene Turck, will speak on—"Louis Braille." Rev. Bro. O'Neill—"Heroes of the Darkness." Soloist—

Miss Dorothy Humphreys. Miss Janet Henderson—"Books in the Library." Braille Essay Competition—"What Braille Means to Me." Prize essay to be read from Braille type. Mr. J. C. Martyn. Thanks to subscribers. Quartette party—"We Four." Vote of thanks— Mr. W. E. M'Lennan. Soloist: Miss Dorothy Humphreys. 10.5: The Discus Ensemble in vocal variations. 10.20: News service. Announcements. God Save the King.

## 4QG

### EARLY MORNING SESSION.

7.43 to 8.30: See Friday.

### MORNING SESSION.

11.0 to 12.0: See Friday.

### MID-DAY SESSION.

1.0 to 2.0: See Friday.

### AFTERNOON SESSION.

3.0 to 4.30: See Friday.

### EARLY EVENING SESSION.

(Announcers: R. Wright and E. Humphreys.) 6.0: Mail train running times; mail information; shipping news. 6.5: Cafe dinner music. 6.25: Commercial announcements. 6.30: Bedtime stories conducted by "Miss Brisbane." 7.0: News in brief; Stock Exchange news, etc. 7.45: Lecture, arranged by the Queensland Agricultural High School and College.

### NIGHT SESSION.

8.0: Alf Featherstone's Dance Orchestra—"Rhythmic Paraphrase "Aida" (arr. Black). Medley Fox-trot, "Yank-o-Mania" (arr. Rudolph). 8.10: Mary McNeil (soprano)— "The Swan" & "Spanish Dance." "The Charm of Springs" (Clarke). 8.20: Alf Featherstone's Dance Orchestra—Fox-trots—"Tokio" (Milne). "Where the Cot-cot-cotton Grows" (Le Soffr). 8.30: Harry Collins and the Orchestra—"Ten minutes' Mirth and Melody." 8.40: Mary McNeil (contralto). "Beloved, It is Morn'" (Aylward). "Angus Macdonald" (Roedel). 8.50: Alf Featherstone's Dance Orchestra—

Jazz Waltz, "Mexican Berenade" (Terese). 9.0: Metropolitan weather forecast; movement of low pressure system. 9.5: Shirley Radford (soubrette)—Ten minutes' popular numbers. 9.15: Alf Featherstone's Dance Orchestra—One-step—"In the Sweet Long Ago" (Lange). "A la Paree" (Verdin). 9.25: Goding—a Musical Novelty. 9.35: Alf Featherstone's Dance Orchestra—Fox-trots—"Glad Rag Doll" (Ager). "You Are Wonderful" (Ash). "Old-time Waltz"— "The Flower of Italy" (Stefano). 9.50: Alf Featherstone's Dance Orchestra—Fox-trots—"Lila" (Tobias). "50 Long" (Milne). 10.0: "The Daily Mail" news: "The Courier" news. 10.15: Alf Featherstone's Dance Orchestra—Three-quarters of an hour's dance music. 11.0: Close down.

## 5CL

### MORNING SESSION.

11.0 to 2.0: See Friday.

### AFTERNOON SESSION.

3.0: Chimes. 3.1: Resumé of race results 1.1: Jack Fewster and his band in musical comedy land. 3.30: Result, Werribe Handicap. 3.31: Australian poem series, by "Stripper," 3.38: Trump solo, Colin Nixon. 3.45: Jack Fewster and his radio band. 3.50: Werribe race result, Manor Plate. 3.51: Jack Fewster and his radio band. 4.2: Soap opera, Leslie Mitchell. 4.10: "Songwriter" reveals a short-cut to fame and fortune. 4.15: Werribe race result, Manor Plate. 4.16: Dick Frost baritone. 4.20: With Jack Fewster and his radio band. 4.55: Stock Exchange information. 5.0: Chimes and resumé of race results.

### EVENING SESSION.

6.0: Chimes. 6.1: Birthday greetings, correspondence, songs and stories by "Miss Wireless" &c. An interlude of dinner music. 6.50: 5CL's sporting service by "Silvius." 7.0: Chimes. 7.1: Stock exchange information. 7.6: General market reports. 7.10: Rev. Winifred Kiek, B.A., B.D., will speak on "The Renewal of Youth." 7.25: An address to boy scouts. 7.40: 5CL Bluebird Girls' Club.

### NIGHT SESSION.

8.0: Chimes. 8.1: Adelaide Orchestral Society (conductor, M. Thomas Grigg). 8.5: Violet Jackson, soprano. 8.18: Ronnie Rambles Round. 8.22: Adelaide Orchestral Society—Selection, "Maritans" (Wallace). 8.30: Stanley Gare, baritone—"If I Were a Rose" (Dessenelli). "On Sunday" (Waller). 8.37: Hilda Reimann, violinist—"Rondino" (Kreisler). "Spanish Dance" (Sarasate). 8.45: Madoline Knight, contralto. 8.52: Adelaide Orchestral Society—string number, "Minuet" (Sully). "The Buttery" (Bendix). 9.0: Chimes. 9.1: Meteorological information. Including semaphore times. 9.2: Overseas grain report. 9.3: Clella Genoni McNeil, soprano. 9.10: Ronnie Rambles Round. 9.17: Adelaide Orchestral Society—Selection, "Rigoletto" (Verdi). 9.27: Stanley Gare, baritone—"The Sandoero" (Stuart). "The Floral Dance" (Moss). 9.34: Hilda Reimann, violinist—"Swedish Melody" (Wilheloni). "Menuet" (Mozart). 9.40: A one-act play, entitled "Take Care, Young Man" (second thoughts) (produced by Lloyd Taylor). 9.55: Madoline Knight, contralto. 10.2: Adelaide Orchestral Society—Valse, "Harmony" (Baines). "Russian Gipsy Dance" (Boggetti). 10.15: General news service; British official wireless news; meteorological information. 10.20: 5CL's sporting service, supplied by "Silvius." 10.30: Modern dance records. Brunswick recordings. 11.0: Close down.

## 6WF

12.30: Tune in. 12.35: Markets, news, etc. 1.0: Tune signal. 1.1: Weather bulletin, supplied by the Meteorological Bureau of Western Australia. 1.3: Talk by Dr. Winifred Holloway of London. 1.20: Musical bulletin. 1.30: Close down. A res. of the programme of the Humphrey Bishop Musical Comedy Co. from the Theatre Royal, Perth. 8.50: Late news items by courtesy of "The Daily News" Newspaper Co. Ltd. station announcements; ships within range announce-

ment; late weather bulletin. 9.5: Programme continued from the Studio. 10.30: Close down.

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

**7ZL**

**MIDDAY SESSION**

11.30 to 1.30: See Friday. 7.0: Close down. 2.45: Description of Jumpers' Flat Race, 9 furlongs, Werribee, Melbourne. Result of Trial Handicap. 2.50: Close down.

**AFTERNOON SESSION.**

3.0: Chimes. 3.4: Weather Information. 3.15: Description of Welter Handicap, 7 furlongs, Werribee, Melbourne. 3.45: Description Werribee Handicap, 1 1/4 miles, Werribee, Melbourne. 4.15: Description of Manor Plate, 6 furlongs, Werribee, Melbourne. 4.20: Readings. 4.40: Description of Manor Purse, 6 furlongs, Werribee, Melbourne. 4.45: Close down.

**EARLY EVENING SESSION.**

6.15: W. E. Masters, will give a chat on "Humorous Pets." 6.45: Bertha Southey Brammall will tell a ghost story to the wee folk:—"The Ghosts of Copples Pass." 7.0: Answers to letters and birthday greetings by Bertha Southey Brammall. 7.15: News session.

**EVENING SESSION.**

7.30: Sporting gossip from near and far. 7.45: Geo. Nation will give a chat on "What's Doing Around the Garden." 8.0: Chimes. 8.6: Recital of instrumental and vocal items by leading international artists, specially arranged by Findlay's Music Warehouse. 9.45: News session. 10.0: Chimes. 10.1: Close down.

**"Hiking"**

NOW the cold days are here, and many will be indulging in the exhilarating pastime of "hiking," many listeners will be interested in the talk to be given from 3AR on May 29 by Mr. Aaron Beattie, who will speak on walking for health. Mr. Beattie is a recognised authority on health and medical gymnastics, and has a great faith in the curative and nerve-bracing properties of walking.

**Boer War Talk**

A TALK is to be given from 3AR by Mr. Alured Kelly, the president of the Royal Automobile Club, who will speak on "Australia's Part in the Boer War." With the events of the comparatively recent Great War fresh in our memory, there is the danger that we may forget the part played by the Commonwealth in the South African War, and Mr. Kelly's talk will do much to revive these facts in our memories.

**Geelong Community Singing**

THE COMMUNITY SINGERS of Geelong will be on the air through 3AR on May 31. Those who appreciate this form of entertainment are familiar with the excellent programmes provided by the Geelong Community singers, who claim, not only to hold their own, but to lead the way, in a great many points. For May 31 a particularly attractive programme has been arranged, leading local artists have been engaged, and the popular Geelong musician, Mr. Sampson, will conduct.

**For Irrigationists**

IN view of the fact that irrigation plays such an important part in the successful farming of many districts in the Commonwealth, the talk to be given by Mr. L. C. Bartells, Senior Irrigation Officer to the Department of Agriculture, from 3LO on May 31, should interest a great number of the farming community. Speaking on "Some Lessons to be learnt from the Irrigated Farming Competitions," Mr. Bartells will describe the great advance in scientific farming, and draw graphic word-pictures of how arid wastes have been transformed into fruitful pastures through the medium of irrigation.

**Proving Radio Club News**

MR. FELTON, 2RF (the well-known amateur) is shortly to take over the Wireless Institute's station (2WI). When this has transpired, Morse lessons will be transmitted for "Proving Radio Club" members. Thanks, 2WI. We should like to know what wave-length you propose using.



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# Local Programmes, Thursday, May 30

## 2FC

### EARLY MORNING SESSION.

Announcer: A. S. Cochrane.

7.0: "Big Ben and announcements 7.2: Official weather forecast; rainfall; river reports; temperatures; astronomical memoranda. 7.7: "Sydney Morning Herald" summary. 7.12: Shipping intelligence. mail services. 7.15: Studio music. 7.25: Investment market; mining sharemarket; metal quotations; wool sales; breadstuffs markets; inter-State markets; produce markets. 7.40: Studio music. 8.0: "Big Ben." Close down.

### MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.2: Pianoforte selections. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.30: Last minute sporting information by the 2FC Racing Commissioner. 10.40: Studio music. 11.0: "Big Ben." A.P.A. and Reuter's cable services. 11.5: Close down.

### MIDDAY SESSION.

Announcer: A. S. Cochrane.

12.0: "Big Ben" and announcements. 12.1: Stock Exchange, first call. 12.3: Official weather forecast; rainfall. 12.5: Summary of news, "Sydney Morning Herald." 12.10: Rugby wireless news. 12.13: A reading. 12.30: The Popular Trio. 1.0: "Big Ben." Weather intelligence. 1.3: "Enening News" midday news service. Producers' Distributing Society's report. 1.20: Studio music. 1.28: Stock Exchange, second call. 1.30: The Popular Trio. 1.50: Last minute sporting information by the 2FC Racing Commissioner. 2.0: "Big Ben." Close.

### AFTERNOON SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chaple.

2.30: Programme announcements. 2.32: The Book Lovers' Corner. 3.0: "Big Ben." The Popular Trio. 3.20: William Cotterill, tenor. (a) "Bonnie Mary" (Nelson). (b) "Maxican Serenade" (Terese). 3.27: The Popular Trio. 3.45: A reading. 4.10: The Popular Trio. 4.20: William Cotterill, tenor. (a) "When It's Evening in the Valley" (Meale). (b) "Ivy Covered Shack" (Rupp). 4.27: The Popular Trio. 4.45: Stock Exchange, third call. 4.47: The Popular Trio. 5.0: "Big Ben." Close.

### EARLY EVENING SESSION.

Announcer: A. S. Cochrane.

5.40: The chimes of 2FC. 5.45: The children's session, conducted by the "Hello Mum," letters and stories, music and entertainment. 6.30: Dalgety's market reports (wool, wheat, and stock). 6.40: Fruit and vegetable markets. 6.43: Stock Exchange information. 6.48: Weather & shipping news. 6.50: Rugby wireless news. 6.55: Late sporting news. 7.0: "Big Ben." Late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace Keats. (a) Waltz, "Der Rosenkavalier" (Strauss). (b) "Nocturne" (Chopin), (c) "San Toy" (Jones), (d) "On the Way to Kew" (Clarke).

### EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chaple.

7.45: Programme announcements. 7.48: A record recital. 8.0: "Big Ben." From the Victory Theatre, ogorah, the Victory Theatre Orchestra, conducted by Frank Mitchell. 8.20: From the studio. Amy Firth, mezzo—  
(a) "Walata Maori" (Hill).  
(b) "The Bird and the Babe" (Lieurance).  
8.27: Iris de Calros Rego, pianiste—  
(a) "Bouree" (Bach).  
(b) "Romance in F Sharp" (Schumann).  
(c) "Allegretto in D Minor" (Beethoven).  
8.37: The Forum and Aginum, by Mr. Optunist and Mr. Fessimeat.  
8.47: Cyril Monk, violinist.  
8.57: Harry Croot, baritone.  
9.4: Weather report.  
9.5: Iris de Calros Rego, pianiste—

(a) "Polonaise in C Minor" (Chopin).

(b) "Valse Reverie" (Bowen).

(c) "Country Dance" (Rogo).

(d) "Rhapsodie in C" (Dohnanyi).

9.15: Amy Firth, mezzo—

(a) "Far Across Desert Sands" (Finden)

(b) "Where the Abana Flows" (Finden)

(c) "How Many a Lonely Caravan," from "A Lover in Damascus" (Finden).

9.22: James Donnelly, songs at the piano.

9.30: Cyril Monk, violinist.

9.40: From the Victory Theatre. Kogarrah.

Horace Weber at the Victory Theatre Organ.

10.0: "Big Ben." From the Hotel Australia: Cec. Morrison's Dance Band.

10.15: From the Studio: Late "Evening News" service.

10.20: From the Hotel Australia: Cec. Morrison's Dance Band.

10.28: Weather report.

10.30: From the Hotel Australia: Cec. Morrison's Dance Band.

10.57: To-morrow's programme.

10.59: From the Hotel Australia: Cec. Morrison's Dance Band.

11.30: National Anthem. Close down.

### EVENING SESSION.

Announcer: Basil Kirke.

Accompanist: G. Vern Barnett.

8.0: G.P.O. chimes. Leichhardt Band.

8.20: Raymond Beatty, basso.

8.27: Zena and James Kendall, in sketches.

8.37: Leichhardt Band.

8.57: Madame Emilije Yurevitch Clelava, soprano—

(a) "Cavantina," from opera "Hugenotti" (Meyerbeer).

(b) "The Ausiber" (Terry).

(c) "Who's At My Window?" (Osborne).

9.4: 2BL interview, Captain J. H. Watson.

9.16: Leichhardt Band.

9.30: Raymond Beatty, basso.

9.37: Zena and James Kendall, in sketches.

9.47: Leichhardt Band.

10.0: Madame Emilije Yurevitch Clelava, soprano—

Selected.

10.7: Leichhardt Band.

10.17: Late "Sun" news service.

10.28: Late weather report. To-morrow's programme.

10.30: National Anthem. Close.

## 2BL

### MORNING SESSION.

Announcer: A. C. C. Stevens.

8.0: G.P.O. chimes. Weather report—State and metropolitan. 8.3: Studio music.

8.30: G.P.O. chimes. News and information service from the "Daily Telegraph Pictorial."

9.0: G.P.O. chimes. Studio music. 9.30: Half an hour with silent friends. 10.0: G.P.O. chimes. Close.

### MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. Chimes. 2BL Women's Sports Association Session, conducted by Miss Gwen Varley. 11.30: Advertising hints. 11.40: Women's session, conducted by Mrs. Cranfield. 12.0: G.P.O. chimes. Special ocean forecast and weather report. 12.3: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sun" midday news service. 1.0: Studio music. 1.30: Talk to children and special entertainment for children in hospital, by Uncle Steve. 2.0: G.P.O. chimes. Close.

### AFTERNOON SESSION.

Announcer: A. C. C. Stevens.

Accompanist: Kathleen Roe

3.45: G.P.O. chimes. Popular music.

3.50: Romano's Cafe. Dance Orchestra, conducted by Bennie Abrahams.

4.0: G.P.O. chimes. From the studio: Irene Duncan, soprano, (a) "Sun" Flakes (Phillips), (b) "Il Baclo" (Arditi). 4.7: B. A. M'Michan, will speak on "Dogs, Their Treatment and Food." 4.22: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.32: From the Studio: Irene Duncan, soprano, (a) "Cupid" (Sanderson), (b) "In April" (Phillips). 4.39: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.50: From the Studio: Popular music. 5.0: G.P.O. chimes. "Sun" news service. 5.5: Pianoforte reproduction. 5.37: Features of the evening's programme.

### EARLY EVENING SESSION.

Announcer: Basil Kirke.

5.40: Children's session, conducted by Uncle Bas, music and entertainment, letters and stories. 6.30: "Sun" news and late sporting. 5.40: 2BL Dinner Quartette, (a) "Prelude and Siciliana" (Mascagni), (b) "Pearl o' Mine" (Fletcher), (c) "The Street Singer" (Fraser-Simson), (d) "I Love to Hear You Singing" (Wood), (e) "Nalla" Valse" (Dellbe).

7.7: Australian Mercantile Land and Finance Co.'s report. Weather report and forecast by courtesy of Government Meteorologist. Producers' Distributing Society's fruit and vegetable market report. Grain and fodder report ("Sun"). Dairy produce report ("Sun"). Weekly traffic bulletin. 7.25: Mr. Pim and Miss Pam in advertising talks handy hints, and nonsense. 7.53: Ad special.

7.55: Programme and other announcements.

## 2GB

10.0: Music. 10.10: Happiness talk by A. I. Bennett. 10.20: Music. 10.30: Women's session, by Miss Helen J. Beegling. 11.30: Music. 11.45: Close down. 2.0: Music. 2.5: Women's Radio Service by Mrs. Dorothy Jordan. 2.50: Music. 3.30: Close down. 5.30: Children's session, by Uncle George 7.0: Music. 8.0: Miss Elsie Peerless, soprano. 8.7: Mr. Leonard Brewer, violinist. 8.15: Mr. Clifford Lathleen, baritone. 8.30: Instrumental music. 8.40: Humorous Interlude. 8.45: Madame Bennett North, contralto. 8.55: Miss Ada Brook, pianiste. 9.0: Weather report. 9.3: Address. 9.15: Instrumental music. 9.25: Miss Elsie Peerless, soprano. 9.35: Mr. Leonard Brewer, violinist. 9.45: Humorous interlude. 9.50: Instrumental music. 9.55: Madame Bennett North, contralto. 10.5: Dance music. 10.30: Close down.

## 2UW

### MIDDAY SESSION.

12.30: Request numbers. 1.0: G.P.O. clock and chimes; music. 1.15: Talk on Homecraft, by "Pandora." 1.40: Music and request numbers. 2.30: Close down. 4.30: Musical programme.

### EVENING SESSION.

5.30: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: G.P.O. clock and chimes. Request numbers. 8.15: Garden talk by Mr. S. H. Hunt. 8.30: Request items. 9.0: G.P.O. clock and chimes. Comments on foreign affairs, by Mr. J. M. Prentice. 9.10: Music and request numbers. 10.30: Close down.

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Hoosick Vernier Dial .....	3	11
Knob for Volume Control .....	1	0
Baseboard .....	2	0
Wire, screws, etc. ....	2	0

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Panel, 14 x 7in. ....	4	1
Two Wallace Condensers at 5/11 .....	11	10
Two Empire UX Sockets .....	3	4
Saturn S.C. Jack .....	1	6
Push-Pull Filament Switch .....	2	9
Terminal Strip .....	2	9
Dubilier Grid Condenser and Leak .....	2	9
Pollock Choke .....	3	9
Coil, Ready Wound .....	5	6
Tv 30ohm Rheostats .....	5	0
Emmco Transformer .....	10	6
Pi'ot Art Dial .....	7	6
Knob for Volume Control .....	1	0
Baseboard .....	2	0
Wire, screws, etc. ....	2	0

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# Interstate Programmes, Thursday, May 30

## 3LO

### EARLY MORNING SESSION

7.15 to 8.10: See Friday last.

### MORNING SESSION.

11.0: To-day's radio recipe—Sponge biscuits. 11.5: Captain Donald MacLean will speak on "Famous Women of History." 11.25: Miss B. Macaulay will speak on "Temperament and Type—Part 2." 11.45: Sister Purcell will speak on "Infant Welfare."

### MIDDAY SESSION

12.0: Melbourne Observatory time signal; express train information. 12.1: British official wireless news from Rugby; Reuters's and the Australian Press Association cables; "Argus" news service. 12.15: Newmarket stock sales; cattle sales reports; bullocks and calves—by the Associated Stock and Stock Agents, Melbourne. 12.20: Community singing, transmitted from "The Radio Revellers," 301 Street, Melbourne—Old-time choruses, conducted by Frank Hatherley; Ern Hall's Radio Revellers, with Hugh Huzham. 12.40: Stock Exchange information; prices received this day by the Australian Mines and Metals Association from the London Stock Exchange. 12.45: Community singing, resumed. 1.45: Meteorological information; weather forecast for Victoria, New South Wales, South Australia, and Tasmania. 1.55: Close down.

### AFTERNOON SESSION.

2.15: The Station Orchestra—"Children's Overture" (Quilter); "Serenade d'Amour" (Waldau). 2.25: Thomas B. George, bass-baritone—"A Song of Steel" (Spross); "When I Go Home" (Townner). 2.32: The Station Orchestra—Symphony No. 2 A Minor (Saint-Saens). 2.40: Dawn Asheton, soprano, and Laszlo Schwartz, violin, in their unique song recitals—Melodies from all musical lands. The education notes from the Sunshine Hills will speak on "Topics of the Week." 3.35: Wm. G. James will speak to students of music. 4.16: Rev. William Bottomley will continue his stories of Sipur, 4.25: The Station Orchestra—"Elegie" (Tschalkowsky). 4.30: Thomas B. George, bass-baritone—"Hear me, Ye Winds and Waves" (Handel); "Fling Broad the Sail" (Grove). 4.37: "Herald" news service; Stock Exchange information. 4.45: Even-song, transmitted from St. Paul's Cathedral, Melbourne. 5.30: Acceptances and barrier positions for the V R to be held at Flemington on Saturday, June 1. 5.35: Close down. Children's Hour—5.0: Birthday greetings and answers to letters by "Bobby Bluegum." 5.25: "Etor and Grace have promised" Bobby Bluegum that they will sing to you. 6.35: Captain Donald MacLean has another pirate yarn.

### EVENING SESSION.

7.5: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.43: Birthday greetings. 7.45: "The Radio Revellers." 7.46: A dressing-room talk. 8.0: A maker of history.

### NIGHT SESSION.

8.1: Programme announcements. 8.2: Rod McGregor will speak on "Football." 8.15: The Radio Revellers—"Oh, is she mad as me?" (Friend). "High Upon a Hilltop" (Baer). "When Love Comes Stealing" (Rapee). 8.24: Thos. B. George, bass-baritone—"A Banjo Song" (Tomor). 8.27: The Radio Revellers—"Roll up the Carpets" (Nixon). "To-day, To-morrow, For Ever" (Nichols). "Shantaki" (Carlton). 8.36: The Kauls will take you straight to the Sunny South Seas. 8.39: The Radio Revellers—"Lady of the Morning" (Burton). "I'm Crazy Over You" (Lewis). "Old Man Sunshine" (Dixon). 8.48: Jack Stocks, the Woman Hater, will sing his Hymn of Hate. 8.51: The Radio Revellers—"Wipin the Pan" (Baer). "My Dream Sweetheart" (all). "Guess Who's in Town" (Razall). 9.0: Freda Treweck, soprano—"You in a Gondola" (Clarke). 9.3: The Radio Revellers—"That Stolen Melody" (Fisher). "Lenora" (Gilbert). "Japanese Mammy" (Donaldson). 9.12: Thos. B. George, bass-baritone—"Youth" (Allison). 9.15: The Radio Revellers—"There's a Breezy Shack" (Turk). "That's What You Mean to Me" (Davis). "All by Yourself in the Moonlight" (Wallis). 9.24: The Kauls—Harmony with Hawaii. 9.27: The Radio Revellers—"She's Got a Great Big Army of Friends" (Neilson). "Queerita" (Simon). "Falling in Love with You" (Mayne). 9.36: Jack Stocks, the Woman Hater—"Troubles of the Married Man." 9.39: The Radio Revellers—"I Love to Dunk a unk of Spongecake" (Castill). "Sweet Just You" (Harris). "Roses of Yesterday" (Berlin). 9.48: Freda Treweck, soprano—"You'll Get Heaps of Lickin's" (Clarke). 9.51: The Radio Revellers—"The Voice of the Southland" (Austin). "My Heaven is Home" (Collin). "Dream Etoile" (Fox). 10.0: News: Meteorological information. British official wireless news from Rugby; announcements. 10.15: The Radio Revellers—

"Mother, I Still ave You" (Jolson). "Out of the Dawn" (Donaldson). "Paradise and You" (Percy). 10.24: Thos. B. George, bass-baritone—"When I was a Bachelor" (Gregory). 10.27: The Radio Revellers—"The Fringe Song" (Crumli). "Sincerely I Do" (Davis). "Sally Rose" (Friend). 10.36: The Kauls, Hawaiian instrumentalists—"An Exotic Ecstasy." 10.39: The Radio Revellers—"It all Comes Out in the Wash" (Trent). Advice for men. "Rio Rita" (Tierney). "The Kink-a-Jou" (Tierney). 10.48: Jack Stocks, the Woman Hater—"An Exotic Ecstasy." 10.51: The Radio Revellers—"My Mother's Eyes" (Baer). "Next to Me I Like Me Next to You" (Bito). "I want to be alone with Mary Brown" (Brady). 11.1: The Radio Revellers—"Down Where the Sun Goes Down" (Jones). "Can You Blame Me?" (Goodwin). "I want to be alone with Mary Brown" (Leslie). "Ya Comin' Up To-night, Bub?" (Lewis). "Forty-seven Ginger-headed Sailors" (Sronny). "The Tension" (Baer). "A Bungalow, a Radio, and You" (Dempey). "My Heart Stood Still" (Rodgers). "Give Your Baby Lots of Lovin'" (Burke). 11.30: God Save the King.

## 3AR

10.0 to 10.59: See Friday. MORNING MUSICAL SESSION. 11.0 to 12.30: See Friday. AFTERNOON SESSION 3.0: Ballads. 3.30: The Strad Trio (Cecil Parkes, violin; Myra Montague, piano; and Frank Johnston, 'cello). Trio—"Op. 96 No. 7" (Hummel); "Allegro con Spirito"; "Andante"; Rondo alla Russa. 3.48: Beautiful ballads. 3.58: Cecil Parkes, violin—"On Wings of Song" (Mendelssohn); "Mazette" (Haydn); "Hungarian Dance No. 5" (Brahms). 4.8: Beautiful ballads. 4.13: Myra Montague, piano—"Liebesraum" (Liszt); "The Sea" (Palmgren). 4.19: A beautiful ballad. 4.22: The Strad Trio—"Arie" (Bach-Parkes); "Novelletta No. 3" (Gade); "Scherzo" (Gade). 4.30: Close down. EVENING SESSION 6.0: Symphony. 7.10: News service; announcements. 7.20: Orchestral items. NIGHT SESSION 8.0: Dr. Loftus Hills—"Life's Facts and Fancies." 8.15: Under the auspices of the Nurserymen's and Seedsmen's Association of Victoria, W. R. "The Station Orchestra." 8.30: The Station Orchestra—"Selection, 'The Daughter of the Regiment'" (Donizetti). 8.40: Dawn Asheton, coloratura soprano, and Laszlo Schwartz, Hungarian violinist, in selections from their large repertoire of Oriental songs and dances. (By special request). 9.20: The Station Orchestra—"Selection, 'Cleopatra'" (Strauss). 9.30: The Melody Makers—"In Happy Harmony." 9.50: Inter-views. C. Lynch—"Newspaper reporters and their work." 10.5: The Station Orchestra—"Syncopated Pieces" (Eric Coates). "Sensata" (Reier). "Request item." 10.20: News session. God Save the King.

## 4QG

EARLY MORNING SESSION. 7.43 to 8.30: See Friday. MORNING SESSION. 11.0: From the City Hall, Civic Reception to visiting delegates of Congregational Union. From the studio, a gardening talk by "Tecoma," at conclusion. MID-DAY SESSION. 1.0 to 2.0: See Friday. AFTERNOON SESSION. 3.30 to 4.30: See Friday. EARLY EVENING SESSION. (Announcers: E. Humphreys and A. V. James.) 6.0: Mail train running times; mail information; shipping news. 6.5: Records. 6.25: Commercial announcements. 6.30: Bedtime stories, conducted by "The Sandman." 7.0: News in brief; Stock Exchange news, etc. 7.45: Lecturette, a talk on books, by Mr. J. Doyle (M'Leod's). NIGHT SESSION. (Announcers: E. Humphreys and the Annerley Choral Society and the Studio Orpheans (conductor, Tom L. Muller). 8.0: Choral—"A Spring Song" (Pinsuti). "In this hour of Softened Splendor" (Pinsuti). Annerley Choral Society and Studio Orpheans—George Willman (tenor)—"Where'er You Walk." Winifred Haslam and Fred Becket—Vocal duet, "O Wert Thou in the Cauld Bias" (Mendelssohn). Studio Orpheans—"Rose of My Heart" (Lohr).—Octette. Marie Dully (contralto)—"Daisy's Song" (Elsar). Annerley Choral Society and Orpheans—Choral, "Lord Ullin's Daughter" (Jackson). E. Harper (baritone)—

"In the Shade of the Sheltering Palm" (Percy). Tom Fuller (elocutionist)—Humorous Monologue, "If You Like" (Baker). Francis Lane (soubrette)—"The Storm" (accompanied by "The Orpheans"). J. F. Cornwall (bass)—"Why do the Nations" (Handel). Annerley Choral Society—Ladies' Chorus, "Oh Hush! Thee My Baby" (Sullivan). 9.0: Metropolitan weather forecast. 9.1: Movements of travelling dental clinic. Studio Orpheans—Octette, "In Absence" (Buck). Mrs. Corbett (soprano)—"The Rose" (Percy). Annerley Choral Society and Orpheans—Choral, "O Gladsome Light" (Sullivan). C. Rice (tenor)—"The Rose of the Romney" (Sandson). Annerley Ladies and Orpheans—Mixed Double Quartette, "Night, Lovely Night" (Abb). Fred Crane (baritone) and Orpheans—Sea Chanties—"Hulabaloo Balabaloo" (Tozer). "Where's Your Down Below" (Tozer). Tom Muller (elocutionist)—"O Memory" (Harris). Winifred Haslam (contralto)—"Ah Remind Me" (Rossi). Annerley Choral Society and Orpheans—Choral, "Laughing Chorus" (Ross). Marie Dully (soprano)—Vocal Duet, "When the Wind Blows in from the Sea" (Mort). Studio Orpheans—Octette—"Foran an I" (Koschak). "A Mistake" (Hunt). Francis Lane (soubrette) and Orpheans—Marie Dully (soprano)—Vocal Duet, "When the Wind Blows in from the Sea" (Mort). Fred Crane (baritone)—"Passing By" (Purcell). Orpheans—"Don't Look at Me I Pray" (March). Annerley Choral Society and Orpheans—Choral, "March of the Men of Harlech" (G. Ross). 10.0: News: weather news. Close down.

## 5CL

MORNING SESSION. 11.0 to 2.0: See Friday. AFTERNOON SESSION. 3.0: Chimes. 3.1: Red Hot Peppers Dance Band. 3.10: Rev. C. H. Niel. 3.25: Red Hot Peppers Dance Band. 3.40: Violet Jackson, soprano. 3.45: William Davey, xylophonist. 3.47: Joe White, bass. 3.54: Red Hot Peppers Dance Band. 4.0: Madoline Knight, contralto. 4.10: Tom Deane, baritone. 4.15: Clelia Genoni M'Neil, soprano. 4.20: Red Hot Peppers Dance Band. 4.33: Joe White, baritone. 4.40: William Davey, xylophonist. 4.45: Red Hot Peppers Dance Band. 4.55: Stock Exchange information. 5.0: Chimes; close down. EVENING SESSION. 6.0: Chimes. 6.1: Children's happy moments in Miss Bessie Francis through Westminster Abbey Cathedral. 6.40: An interlude dinner music. 7.0: Chimes. 7.5: General market reports. 7.10: Mr. F. F. Boscum will give an hour of his talks on "New Zealand's Thermal Springs." 7.25: Madlle. Marcella Bernard, "French All." 7.40: Mr. A. M. Whittenbury: Hints to Poultry Breeders. NIGHT SESSION 8.0: Chimes. 8.1: Studio Orchestra, conducted by Lisette Page (viola). "Queen of Autumn" (Bige). 8.15: Clelia Genoni M'Neil, soprano. 8.18: The Cotton Pickers, banjoists. 8.21: Eric Wickens, bass—"Captain Streeton's Fanny" (Peter Warlock). "The Admiral's Yarn" (Rubens). 8.28: Studio Orchestra—"In the Spring" (In the Spring). "In the Spring" (Torrence). "Heir's Kail" (Hubay). 8.39: Madoline Knight, contralto. 8.46: Alfred Noske, flautist. 8.52: Windarra Maie Quartette—"In Absence" (Dudley Park). "Sittin' Round the Fire" (Macey). 9.0: Chimes. 9.1: Meteorological information, including sea and shore tides. 9.2: Overseas grain report. 9.3: "Atmos" will talk to you about Radio Phonem. 9.13: Studio Orchestra—"Selection, 'Sunny South'" (Isenman). 9.20: Violet Jackson, soprano. 9.27: The Cotton Pickers, banjoists. 9.33: Richard Watson, tenor—"The Garden of Your Heart" (Dore). "Onit" (Teschmaker). 9.40: Studio Orchestra—"Entr'acte, 'Soiree'" (Zammecchi). "Around the Bandstand" (Kately). 9.49: Madoline Knight, contralto. 9.57: The Cotton Pickers, banjoists. 10.1: Windarra Maie Quartette—"Give Awayr'n'" (Jacobs Bond). "Sing Me Love's Lullaby" (More). 10.8: Studio Orchestra—"Valse Passion" (Ranzato). March, "The Caravan" (Jalowicz). 10.15: General market reports; British official wireless news; meteorological information; announcements. 10.30: Modern dance records, H.M.V. recordings. 11.0: Close down.

The WIRELESS WEEKLY

RADIO INFORMATION

Under the direction of

Ray Allsop

and

Don B. Knock,

Associate Technical Editors

Service

Correspondence Answered

only through

these

Columns

(See Coupon Below)

P. A. GRANT, 34 Morton Street, Randwick, asks if any reader can supply him with "WIRELESS WEEKLY" dated February 8.

R.P. (Newcastle).—It is not necessary to remove the shiny surface from a Luzerne hard rubber panel, neither is it necessary to insulate the baseboard unless you live in a damp place, when it would be advisable to boil the baseboard in paraffin and scraping off the surplus. The idea of removing the shiny surface from panels and insulating baseboards, etc., comes from old ideas on low Modern radio components are efficient to such degree as to require no further insulating.

W.H.Y. (Nth. Queensland).—You say, "Could you give me advice on Superheterodyne Eight Light Answer is "Yes-if you tell us what you want to know." You must narrow down for us; a tube of W.W. could be filled with remarks on the "Proving Radio" in about four weeks. Unless you are careful in calibrating a wavemeter, it would be better to buy one ready calibrated. Speaker connections O.K., though there are better types.

H. Mel. (Randwick).—Probably not fault of aerial at all, but of set. Perhaps connection has become loose, or you have connected aerial and earth incorrectly. See below.

H. McCleod, 5 St. Mark's Road, Randwick, writes: "The local paper shop sold out of W.W. dated Friday, May 10, on Thursday, May 9, and I failed to procure a copy. Can any reader please oblige?"

R.B. (West Ryde).—No, indefinite. Probably in month.

W.P. (Maryborough).—Depends on valves being used. Presume you are using 4-volt series. If you use a 4-volt 30 amp. hour accumulator for filament supply, and two 45-volt "B" batteries connected in series for plate supply. A single 4 1/2-volt "C" battery will suffice.

R.M. (Sydney).—The Marco Fohr. No, have not published the article yet. Probably in a few weeks. Re Amperites—no. Valves—R.F. A425, detector A415. Re first audio B406. Last stage A408 (wave valve).

E.J. (Townsville).—Information re coils has appeared in these columns countless times recently. Lewson Litz wire O.K. Same number of turns. Has this note. Using two-inch coils use slightly more than one-third number of turns extra. See reply to H.F.R. (Coonamble).

A.N. (Sydney).—The three stations you heard were probably Japs. Has Two O.K. Re choke—150 ohms local D.C.C. on 1/2-inch former. Latest of amateur transmitters will be published in this paper next week. Order your copy now.

H.T. (Queensland).—Quite O.K. As battery charges, light will dim.

189. (Stanthorpe).—Probably grid leak or grid bias trouble. Aerial earth system faulty, or unsuitable coils.

E.M. (Hamilton).—In this order: A625. A625. A615. A609. A609. A605.

C.M. (Wallarobba).—Battery connections O.K. trouble probably lies in resistance coupled audio stages (if you made your own as instructed). Beginners usually find this part harder to build than the detector. If this is O.K. you have wired wrongly somewhere. Double check you rather than me. Can you hear any sound at all—a rushing sound, a crackle, a buzz, a hum? These things help us a lot. There is no connection between primary and rest of set. The radio impedance are passed to the secondary by induction.

A.McP. (Paddington).—Faulty speaker, or leads of same reversed, or may be wrong grid bias, or faulty grid leak.

J.B. (West Waverley).—Try .001 fixed condenser across primary of first transformer.

E.A. (Adelaide).—1928 Solodyne. See below.

General: Can any reader supply R. Ayre, 13 Greenhill Road, Victoria Park, Adelaide, with a copy of W.W. containing the 1928 Solodyne?

E. Hall, 28 George Street, Marrickville, would like the address of any listener in Dulwich Hill district who has received inter-State stations on a five-valve Neurodyne in daytime.

L.R. (Klarna).—Information appeared previously. Lane size primary. Wrong valve grid leak or unsuitable valves.

N.J.S.C. (via Casino).—Accumulators usually give good service for about 18 months, depending on use. If yours has had constant use, 12 months' service is quite an ordinary performance. Not worth while renewing elements, get a new battery.

No; should not think it would be fault of charging if your man is reliable. You cannot magnetise the speaker yourself. Take it to your dealer. Acid and water (distilled) form the electrolyte. Gravity test, with hydrometer.

Horn Speaker (Woy Woy).—It takes a long time to get an invention on the market, unless it is exceptionally good. Address given was that shown on the specification. Write him again.

W.L. (Arncliffe).—See data given with S.G. short-wave Midget Four.

J. C. Terriss, Power Station, Barendine, writes: "Some little time ago you published a suggested improvement in the Peridyne. As I built the Peridyne, and am getting excellent results, I would like to get hold of a copy of a diagram of the improvement." Perhaps some good reader can supply.

K.C. (Muswellbrook).—List of amateur short-wave stations will appear next week. Order your copy now.

A.B. (Hurstville).—Go-getter. Leave out last stage of audio. About E.P.

H.G.H. (Rosebery).—O.K. for three valves. If any extra valves are added to the set at any time it will be necessary to use an ordinary rectifier.

W.D.S. (Croydon).—Glad "Information Service" rectified your troubles. Re B negative and A positive—yes. Re trickle charger—Proving Radio No. 4. The transformer and rectifier arrangement shown will act as a trickle charger.

E.G. (Stoekingbinal).—Open grid circuit in detector stage.

G.C.A. (City).—Sorry, no room at present, but verbal instructions should be quite clear, follow this procedure. Leave out last audio transformer and last valve, and treat all other leads as usual. Take one side of speaker to plate of second valve, and the other side to B plus. Wave-trap circuit probably wrong.

E.H.D. (Bexley).—Add stage of audio to your Extraordinary One-valve, as follows: Procure one transformer ratio 5-1, one valve (suitable to other you are using, which, incidentally, you didn't mention), one socket, and one filament ballast. Connect the side of your 'phone jack that goes to the plate of the detector valve to the P terminal of the transformer, and the other side of the jack to the B plus terminal of the transformer, leaving all other connections on the original set as they are. Next take a lead from the grid terminal of the transformer to the grid terminal of the amplifier valve socket, then carry a lead from the filament terminal of the transformer to the A minus terminal of your battery. Connect the plate of the amplifier valve socket to one side of the speaker, and the other side of the speaker to B plus. (You may find it necessary to reduce the voltage on the plate of the detector valve when using an audio stage, otherwise set might howl.) From one of the filament terminals of the amplifier valve socket, take a lead to one side of the filament ballast, and the other side of this component should then be connected to A minus. A plus should be connected to the remaining terminal on the amplifier valve socket. These instructions, together with circuits, have appeared many times in these columns, and readers would save themselves and us much trouble if they glanced at Queries Columns now and again.

A.W. (Five Dock).—This is impossible. Readings will vary considerably. You can get an approximate idea by comparing wave-lengths and tuning degrees of various stations. A wave-meter would be better still. With its aid, you could tune your receiver to any desired wave-length.

A.W.A. (Bexley).—Quite O.K., and very efficient, but keep connecting leads short and bound together in a fairly stiff cable.

V.P. (Gordon).—You were unwise to purchase these old type valves, which can vary inefficient, and take a lot of current. Even one valve alone will eat up a dry battery "A" supply in a few minutes. The best thing you could possibly do with them is to use them for testing out a newly-wired receiver in order to save burning out the filaments of good valves. The first valve mentioned takes a filament voltage of 3.5 volts, and a plate voltage of 250V, and is a general purpose valve. An accumulator must be used for "A" supply. The other valve is an old English type, now selling at such in Sydney. Its filament consumption is even greater. Circuit of a three-stage amplifier recently appeared in WIRELESS WEEKLY, in the Maxpure Four article. Your idea re amplifier N.G.—very inefficient. It is

not desired to use a "O" battery, merely connect the filament terminal of each amplifier unit to A minus. However, you cannot expect much tone from such an arrangement, using three stages of audio without grid bias. No, if you cut out the coil system and use Neurodyne coils and neutralising condenser, the receiver is no longer a reflex receiver. The fixed condenser in series with the aerial may be omitted, but tuning will probably be broader. It is a wonder you didn't try this simple thing for yourself.

"Howmit" (bad writing).—Quite O.K. Instructions are given with the outfit. See below.

General.—Please write queries, name, and address (or non-de-plume) plainly. Also will query-ists please note that unless coupon is pinned to query, and all sheets fastened together they may become lost. No queries will be answered unless coupon is enclosed.

C.J.B. (Adelaide).—Yes, the frequency would vary with various tubes used. It would average between 15-30,000 cycles per second. You would get about the same volume from both arrangements, but the resistance coupled amplifier would give you better reproduction.

G.R. (Redfern).—Use Push-Pull amplifier with 210 valves. Filaments suggested would not give you the required amplification. Dry cell "B" batteries would soon run down. Ferranti transformers, or Philips—both good. Ampion microphone. Letter re amplifier passed on to Mr. Allsop.

J.B.K. (Bondi Beach).—Filament end. Turns O.K. Split primary coil would be O.K. for S.G. Disregard centre-tap, and change N to B plus. Glad to hear the Flour-duster wave-trap was a "corker."

J.D. (Mosman).—You did not send coupon, nor did you repeat queries. This space would have held your reply, instead of rebuke.

R.D.L. (Auburn).—The Phonofame Four. E.C.A. (Ammaroo).—Open grid circuit. Look to grid bias, grid condenser, grid leak, secondary coil connections, fixed plates of condenser connection (detector stage), and see that valves are properly seated in sockets.

W. Winty (Wentworthville).—Go-getter better than Reinartz for S.W. Vernier dials must have large ratio for S.W. work, and must be of good type, otherwise hand-capacity and noises will result. You have been entering names on the rolls as a country member of the "Proving Radio" Club.

E.A.R. (Toogoolawah).—Carbon cells O.K. They are excellent. I personally have used three of them on a receiver for nearly twelve months without recharging.

Mr. J. S. Morgan, 4 Artarmon Road, Willoughby, advises he can supply back numbers required by any readers from June 1, 1928, to date. Thanks, Mr. Morgan.

QUERY COUPON

If you are in difficulties about reconstruction or set-construction, let us know, and we will endeavour to set you right. Make your questions brief to the point, and, where possible, show lay-out and wiring design. Under no circumstances will answers to queries be made by letter or by telephone. All answers will appear in the columns of this department in the order in which they are received.

The Radio Information Service. Please answer the accompanying query in your earliest convenience. I enclose this coupon in order to indicate that I am a bona-fide reader.

W.W. RELIABLES (P.O. Box 17).



**H.D. (Kogarah).**—Do not advise aerial system suggested. Mercury exerts capacity at end of aerial to do specially good effect. S.G. valves do not necessarily consume more current than other valves. Low consumption types are now obtainable. The Cosmor Mictrovalve is an excellent choice for this set. Very good set on batteries. Cheaper to use the power mains than the electric light unless there are any special arrangements made with the local electric concern. A screen grid valve is not a power valve. It is used chiefly to boost up R.F. signals, but it can also be used as a detector.

**L.P. (Retelle).**—The S.G. valve cannot be used as you suggest. In any case, you placed two condensers in series in the last S.G. stage, thus blocking the voltage from the battery to the S.G.

**C.G. (Handwick).**—Set not properly tuned. Too much reaction. When your set whistles it interferes with local listeners.

**T.G. (Boxelle).**—Harsh grating sound when rheostats on audio are turned on is due to poor rheostats or faulty components. No, not fault of speaker. Use good rheostats with smooth motion—try them before you use them.

**H.A.T. (North Sydney).**—Very sorry, but we do not reply by post. Here is a circuit for you: Connect aerial to a primary of 20 turns, which is wound on a three-inch diameter former, and earth to other end of this coil. Connect fixed plates of one of the 0000 variable condensers to the aerial, and the moving plates to earth. On the same former, eighth of an inch away, wind 47 turns. Connect the first turn to the fixed plates of the other condenser. The other side of the crystal should be connected to the 'phones. The remaining side of the 'phones should be connected to the moving plates of the condenser, and to the remaining end of the coil.

**General.**—Can any reader supply Mr. Graham G.' Short, Public School, Jemalong, via Forbes, with a copy of each of the following: (1) 'W.W.' containing the Harkness Two and the Harkness Three receivers?

**R.W. (Teasterfield).**—Coils for Countryman's One-valver as follows: Primary 25 turns, secondary 50 turns, reaction 50 turns. Reaction coil fits inside filament end of secondary, which is wound on a three-inch diameter former.

**F.W. (Marrickville).**—There is only one effective cure for the trouble of radiating receiver valves to your offending neighbor and teach him how to control his set.

**U.T.F. (Croydon).**—The C509 is a general purpose Philips valve, taking .25 amps filament current at 4.5-5.5 volts. This type is now obsolete.

**I.E. (Waterfall).**—No; it is due to the changing intensity of the current that causes the magnetic flux in the primary to vary, and so induce a current in the secondary. As D.C. current does not vary, therefore the magnetic flux will only be present in any great degree when the circuit is made or broken. This will help you to understand why D.C. cannot be stepped up or down.

**H.F.R. (Oonamble).**—A suitable coil for the broadcast band to use with the Go-getter receiver would consist of 120 turns of 28 D.S.C. copper wire for the grid coil, and 35 turns of 28 D.S.C. wire for the reaction. The grid coil should be wound on a three-inch former, and the reaction on a slightly larger former to fit inside the filament end of the grid coil. Your trouble with oscillation over only one part of the tuning range seems to be due to too tight an aerial coupling. Loosen the coupling as much as possible without loss of signal strength.

**A.K. (Woolahra).**—Your description points to a faulty grid leak of inconsistent nature. Sometimes the resistance of certain grid leaks will alter with the weather and upset the action of the detector. Make sure your leak is of reliable manufacture.

**P.R.S. (Auckland, N.Z.).**—Sorry, Mr. Simpson. Not a copy left. Perhaps some obliging reader can help Mr. R. Simpson, of 13 Bridge Street, Eden Terrace, Auckland, N.Z., by sending him either a copy of Radio containing the Peridyne or Wireless Weekly containing the Gloomchaser Five. Regarding your eliminator query, P.R.S.—it will be correct either way.

**A.L.T. (Barraba, N.S.W.).**—VK2HC is the station of Mr. Ray Carter, Yarraman, North Quidin, N.S.W. VK6QG is the station of Mr. E. Barton, "Barlow," Canberra. Both of them may be heard often on the 42-metre band, but when you heard them using telephony it was most likely on 80 metres.

**W.H. (Kurrajong).**—It is not surprising that you receiver failed to oscillate at high frequencies when the aerial was connected directly to the grid end of coupling. In this circuit the aerial should be coupled through a very small variable condenser, which may be made up of two spacings of tin-plate with an adjustment of 3/4-inch between the two. If the aerial is connected directly, the fundamental or a harmonic of the same would cause "blind spots" in reception at all. Try again—loose coupling to the aerial is the secret.

**S.B. (Bexley).**—Glad to hear you got on with the Renown 3 so well. Try a UX 201A as the rectifier in your eliminator. Valves in use in set are very good. They may get an improvement in comparative performance with Osram DEL410, DEL410, and DEP410.

**B.D. (via Fallford).**—Get your idea O.K. Will do my best to design and publish such a receiver when the time and opportunity present themselves.—D.B.K.

**H.R. (Bavov, Q.).**—You would do better with another type of valve in the R.F. amplifier of your Browning Drake receiver. Try a Sixty-Six 5S6075HP. No; the Loveless aerial is really a "stunt," but an interesting one. Suggest you keep the "stage" aerial. The Ferranti exponential horn speaker.

**W.H.M. (Faxton).**—Make sure all connections are sound in your S.W. adaptor. Silence sounds like an open grid circuit to me. Keep the aerial as loosely coupled as possible when testing, although this should be O.K., as the Lewcos S.W. coils are

provided with a loosely-coupled aerial coil on the same former. Try a three-plate midjet variable condenser in the aerial leak. Keep the leads from the adaptor to the B.C. set as short as possible.

**J.A.H. (Five Dock).**—Fifty turns of 26 D.C.C. copper wire on a three-inch diameter former will do the trick for your crystal set.

**N.W.C. (Parramatta).**—Give the second valve 4 1/2 volts, negative grid bias, and the trouble with your Harkness Reflex Two will probably disappear at once.

**Drinkie (Richmond Gap).**—I am afraid that yours is a location trouble, as all other stations but the one in question are working. Your neighbors report the same occurrence of fading on the station, you can take it for granted that it is beyond the power of "W.W." to help you. Sufficient to say that the trouble does not lie with your set. Do not know who are the agents for the speaker you mention.

**I.D.L. (Duarings).**—Thanks for your plaudits re the Air Empire receiver. It was not designed for the B.C. waves in the first place, but a large number are reporting good work in this way. Not surprised to hear that you get good reception with the earth as the aerial. The set is sensitive enough if properly balanced to work with a foot or two of wire as an aerial. The length of wire in your earth lead before getting to earth is acting as an aerial. You may get rid of a lot of static in this way. From your description of the differential dial readings of "W.W." it is clear that you have a poor connection somewhere in the detector circuit, thus causing a high resistance. Perhaps, on the other hand, one of the fixed condensers is faulty. Use the Philips condenser if you are using one, or you can build the Air King. Do not leave the set unenclosed, as shown in our photographs, but box the whole lot in and screen the valves individually, or the first R.F. stage may give trouble.

## FREE SUPPLEMENT Of Broadcasting and Amateur Stations

Do not forget to tell your friends about the free supplement in next week's issue of "Wireless Weekly." It will be in the form of a broadsheet, and will contain a list of Australian A and B class stations, N.Z. stations, international short-wave stations, foreign stations which can be heard here, and the complete and up-to-date list of amateur stations in Australia.

Such a comprehensive list has not been published for more than a year, during which many hundreds of alterations and additions have occurred. A limited number will be printed, and, owing to the large demand expected, readers are urged to order their copies early to avoid disappointment.

**S.P. (Marrickville).**—Keep your eye on "W.W." for such a circuit soon.

**V.N. (Inverell).**—Your short-wave reception will in no way interfere with listeners on the broadcast band in the vicinity.

**E.A.R. (Nambah).**—The eliminator would be an advantage in every way, and the cost of operation negligible. The same valves will be suitable in the set.

**R.N. (Hfracombe).**—Your idea N.G. Cannot be done satisfactorily.

**NO NAME (No address).**—The wire forwarded is 28 enamelled copper.

**H.N. (Sans Souci).**—Detector valve has lost its emission. Output transformer merely protects windings of speaker. Re A.C. receiver not yet.

**W.O. (Redfells).**—No alteration to coils necessary. Air King O.K. on broadcast band, though all S.G. jobs designed for S.W. work are a little broad in tuning. A wave trap could be used.

**"ENGINEER" (Bingara).**—Daylight reception is 230 ft. J.P.I. (Aelaide).—Would cost approximately £30 if good parts were used. As the receiver is the original design of Mr. Knock, there are no commercial firms making the WIRELESS WEEKLY tells you all you want to know.

**"RANJE" (South Coast).**—Aerial too long, and A.T.C. too large capacity. Aerial should be about 80 feet long, and aerial tuning condenser about .0005 mfd.

**H.E.T. (Leichhardt).**—Accumulator plates sulphated. Average life of accumulator eighteen months, so you have had good service. A new accumulator necessary.

**V.V.J. (Lower Portland).**—N.G. as a fuse. 5-1

transformers O.K. except for output transformer, where a 1-1 is required.

**A.H.H. (Chatswood).**—Not yet. Give us time. No, you are not asking too much. Will oblige you shortly.

**J.E. (Coogee).**—Re S.G. Marco Four. Am sorry on this article now. Yes, will (as you request) make provision for using gramophone pick-up. This provision being made, you can refer to the accompanying article for the definite arrangements have been made.

**G.K. (Marrickville).**—Circuit showing theoretical arrangement, O.K. Yes, this set will take a 5000 ohm load. "The filament" will not be suitable for this set, but can be made so by using a rectifying valve. Maximum output would be about 100 volts, minimum could be O by using high value resistance. Reason why unsuitable because amperage is small. Take another lead from 45-volt terminal, through a variable resistance 100,000 ohms for the detector valve.

**L.G.R. (Port Macquarie).**—Re home-made valve. Charging and forming seems to be your trouble. Rectifier-charger must be formed. When no wave lamp gets dim, add another lamp in parallel, and repeat this procedure until the whole of the set is taken by the rectifier. If rectifier will not hum, this is probably due to greasy aluminium plates. Clean them in W.C. and do not reply by post.

**E.P. (Louvanna).**—Many thanks for the copies. See below. Thanks very much.

**GENERAL.**—Mr. E. H. Paul. "Riverine" Link Nimboider, via Louvanna, writes: "I have a complete set of copies of 'WIRELESS WEEKLY' comprising the first 12 issues, and several others. I am sending each copy weekly to Vol. 12, No. 12. If someone would care for same, please let me know. I might add the copies are in a good state of preservation. I have several copies of 'WIRELESS WEEKLY' on wireless of a useful nature, after the nature of 'How to Service Radio Sets', now running a course in 'WIRELESS WEEKLY'.

**H.A.R. (Nullumbilly).**—No regular hours of transmission. Approximate hours, etc., will give you the free list to be given this week. Wave speed 2.86, 28.5.

**G.N. 25 (Queensland).**—You poor chap! Screen valves! Shew! Taking for granted that batteries and connections are O.K. there are several things you could cause your valves to burn out. The most likely of these are wrongly connected 'B' battery and 'C' terminals. Are you screening and earthing 'C' terminals? Is any uninsulated wire loose another? Look for a frayed wire in the battery cable if one is used. Try leaving out the 'C' battery terminal. Take out all the other leads and leaving C plus out. Perhaps you have been connecting this battery wrongly, placing 15 volts in the filament. Take out all the other leads and try on the tags are (in the valve socket) loose, twisted, so as to touch each other. Often screen beneath the valve socket become loose, and the connection will twist round with frequent vibration of the valve. See also if there are any loose pieces of wire, screws, etc., inside the socket that would cause the short. See that leads from the battery are correctly connected to the battery terminals, and also that these leads are correctly connected to the battery strip. See that no connections will twist round with frequent vibration of the valve. Place a fuse in series with the filament negative terminal of each valve socket. Using only one valve with ground filament by each socket, and watch fuses. Try fuses in series without inserting valves. See that plates of condensers do not touch, or that no matter is swept between plates. See that the connections are correct on moving plates of condensers, see that they have not broken off and are shorting the condenser. No, it could hardly be the valves. Try a new valve now and again. This is caused by part of the filament touching the grid. If any shield is used, see that all components that should not be shielded are perfectly insulated. Never, when doubtful of battery connections, or of filament, try to set in the stage. If the fuse blows in each stage, then it will be sure to find the connections are wrong at the end (entrance of battery leads) or in the connections to the batteries themselves.

**A.W.S. (Penland).**—You ask too much of a two-valve receiver. Whilst a two valve set suitable for Inter-State reception could be built, doubt if you could get the portable type. The Harkness Reflex would be a good two valve receiver suitable for Inter-State reception.

**R.H.A. (Brisbane).**—Circuit of good wave trap appeared in these columns Feb. 1928, and 1928. Replies to queries will explain construction. If you have no copies, please advise, and, when we have a little more space, we shall be pleased to publish for you.

**A.A. (Melbourne).**—The best valve to use with a set of crackling sounds which have suddenly developed will probably be a faulty transformer, a loose lead, or the aerial touching some earthed object.

**P.E.J. (Delungra).**—Thanks, O.M. May be of some future date.

**H.B. (Dorrigo).**—Eighty feet long, thirty-five feet high.

**E.D. (Griffith).**—Marco Four has been published five of six times. Last date of publication was February 1, 1928. Marco Five starts with the valve in place of three electrode valve as R.F. stage. Circuit appeared in papers recently, and article will follow shortly.

**M.B. (South Coast).**—Remove all but seven, Four fixed and three moving.

**R.K. (Newcastle).**—Shielding O.K., but if this is done it will be unnecessary to place coils at an angle, and, consequently, shields can be made smaller. Circuit and coils O.K. otherwise, but see 1928 Neutrodyne, recently published. Re valves, see our article for good selection.

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